

Data Release Report Source Physics Experiments 5 and 6 (SPE-5 and SPE-6) Nevada National Security Site

June 2019

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Distributed by:

Incorporated Research Institutions for Seismology
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*The near-field data for SPE-5 and SPE-6 are found in **Assembled Data Sets 18-024 and 18-025**. These data sets also include this report. The far-field data were submitted directly using the Nevada Seismological Laboratory's "SN" network code and merged directly in the IRIS archive.*

Citation Reference: Mission Support and Test Services, LLC, 2019. *Data Release Report for Source Physics Experiments 5 and 6 (SPE-5 and SPE-6), Nevada National Security Site*. Technical Report DOE/NV/03624--0524, 318 pages. Las Vegas, NV

Source Physics Experiment 5

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Executive Summary

The fifth Source Physics Experiment test (SPE-5) was conducted in Nevada on April 26, 2016, at 20:49:00 Coordinated Universal Time (UTC). The explosive source was 4,288.7 kilograms (kg) of polymer-bonded explosive (PBXN) –110, equivalent to 5,035 kg of trinitrotoluene (TNT) detonated at a depth of 76.5 meters (m).

The sixth Source Physics Experiment test (SPE-6) was conducted in Nevada on October 12, 2016 at 18:36:00 UTC. The explosive source was 1,982.2 kg of PBXC-141, equivalent to 2,240.2 kg of TNT detonated at the depth of 31.4 m.

Both tests were recorded by an extensive set of instrumentation that includes sensors both at near-field (less than 100 m) and far-field (100 m or greater) distances.

The near-field instruments consisted of three-component accelerometers installed at various depths ranging from 4 to 99 m below ground surface in boreholes positioned around the shot, and a set of single-component vertical accelerometers on the surface. The far-field network was composed of a variety of seismic and acoustic sensors, including short-period geophones, broadband seismometers, and three-component accelerometers at distances of 100 m to 400 kilometers. In addition, both explosions were recorded in a temporary array of 996 geophones arranged in a densely spaced grid pattern (“large N”).

This report coincides with the release of these data for analysts and organizations that are not participants in this program. This report describes the fifth and sixth Source Physics Experiment tests and the various types of near-field and far-field data that are available.

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Table of Contents

Executive Summary	i
List of Appendices	iv
List of Attachments	iv
List of Figures	v
List of Acronyms and Abbreviations	vi
1 Introduction.....	1
2 Test Objectives.....	1
2.1 SPE-5 3	3
2.2 SPE-6 3	3
2.3 Data Sets	3
3 Site Description.....	4
3.1 Test Bed Construction	4
3.1.1 Source Hole	4
3.1.2 Instrumentation Holes	4
3.2 Geology	7
3.2.1 Geologic Setting	7
3.2.2 Geologic Characterization Data	7
4 Test Descriptions	9
4.1 Explosive Source for SPE-5	9
4.2 SPE-5 Detonation	11
4.3 Explosive Source for SPE-6	11
4.4 SPE-6 Detonation	13
5 Near-Field Instrumentation.....	13
5.1 Borehole Accelerometers	13
5.1.1 Installation Details.....	13
5.1.2 Naming Convention for Borehole Accelerometers	15
5.1.3 As-Built Adjustments of Near-Field Gauge Positions.....	18
5.2 Near-Field Surface Accelerometers.....	18
6 Far-Field Instrumentation	18
6.1 Seismic Instrumentation for SPE-5 and SPE-6	18
6.1.1 Geophone Lines.....	19
6.1.2 Non-SPE Stations Operated on the NNSS, in Southern Nevada, and in Eastern California by NSL	23
6.1.3 Large N Seismic Array for SPE-5	23
6.2 Infrasound Data Collected for SPE-5 and SPE-6	26
6.3 Weather Data Collected for SPE-5 and SPE-6	26

Table of Contents (cont.)

6.4	Windcube Lidar Data Collected for SPE-6	29
7	Data Acquisition and Corrections	29
7.1	Near Field	29
7.2	Data Timing Issues Based on Extraction Method	29
7.3	Far Field Data Features of Note	30
8	Post-Experiment Procedures	30
8.1	Aggregation, Merging, and Archiving of SPE-5 and SPE-6 Data	30
8.1.1	Data Aggregation.....	30
8.1.2	Merging of Data Sets.....	31
8.1.3	Data Archiving	34
9	Summary	35
10	Acknowledgements.....	35
11	References	36

List of Appendices

- 1 Construction Data for Holes Drilled at the U-15n Site
- 2 Selected Metadata for SPE-5 Borehole Sensors
- 3 Instrument Metadata for SPE-5
- 4 Selected Metadata for SPE-6 Borehole Sensors
- 5 Instrument Metadata for SPE-6
- 6 Selected Metadata for SPE-5 Surface Stations
- 7 Selected Metadata for SPE-6 Surface Stations
- 8 Selected Metadata for SPE-6 Infrasound Sensors

List of Attachments

1. Smith, K., and G. Plank, 2019. *Non-SPE Stations Operated on NNSS, in Southern Nevada and in Eastern California by NSL*. University of Nevada, Reno Nevada Seismological Laboratory.
2. Mellors, R. J., T. Chen, C. Snelson, A. Pitarka, E. Matzel, and R. Abbott, 2017. *Data Report: The Source Physics Experiment Large N Array*. Lawrence Livermore National Laboratory Report LLNL-TR-732520.
3. Schalk, Walter, 2018. Written Communication prepared by the NNSS Weather Forecast Air Resources Laboratory/Special Operations and Research Division. *SPE-5 Weather Data Collection*. Mercury, NV.
4. Schalk, Walter, 2018. Written Communication prepared by the NNSS Weather Forecast Air Resources Laboratory/Special Operations and Research Division. *SPE-6 Weather Data Collection*. Mercury, NV.
5. Wharton, Sonia, 2018. *SPE6 Atmospheric Lidar Data User Guide*. Lawrence Livermore National Laboratory Report LLNL-TR-764520.

List of Figures

<i>Number</i>	<i>Title</i>	<i>Page</i>
1	Map Showing Surface Geology and Location of the SPE Experiments at the Nevada National Security Site.....	2
2	Aerial Photo of the SPE-5 and SPE-6 Test Bed Showing Locations of the Source Hole and Instrument Holes	5
3	Aerial Photo of the SPE-5 and SPE-6 Test Bed Showing Locations of the Source Hole and Open Observation Holes.....	6
4	Sketch Showing Cut-Away View of Test Bed for SPE-5 and SPE-6.....	6
5	Surface Geologic Map of the Climax Stock Area.....	8
6	Schematic Drawing Showing Placement of Explosives Canister and Stemming in the SPE-5 Source Hole.....	10
7	Schematic Drawing Showing Placement of Explosives Canister and Stemming in the SPE-6 Source Hole.....	12
8	Diagram Showing Typical Near-Field Gauge Package Arrangement for all SPE Tests ..	14
9	Plan View of Surface Accelerometer Layout for SPE-5 and SPE-6.....	19
10	Map Showing Locations of Far-Field Instrumentation Layout for SPE-5 and SPE-6.....	20
11	Map Showing Locations of Geophones Placed within Approximately 2 Kilometers of the SPE-5 and SPE-6 test Locations	21
12	Map Showing Locations of Regional Seismic Stations in Place for SPE-5 and SPE-6....	24
13	Layout of Large N Array, Permanent Array (radial lines), and SPE-5 test (yellow star) .	25
14	Map Showing Infrasound Array Locations (triangles) around Surface Ground Zero (red) for SPE-5 and SPE-6	27
15	Google Earth Image Showing the Location of NOAA SORD 10AA Meteorological Tower (south) and the Lidar (center; see next section) in Relation to the SPE-6 Test Location (north).....	28

List of Tables

<i>Number</i>	<i>Title</i>	<i>Page</i>
1	List of Near-Field Gauges Installed in Boreholes for the SPE-5 Test	16
2	List of Near-Field Gauges Installed in Boreholes for the SPE-6 Test	17
3	Seismic Stations in the Central and Southern Nevada Area Operated for SPE by the NSL....	25

List of Acronyms and Abbreviations

AFTAC	Air Force Technical Applications Center
DOI	Digital Object Identifier
DTRA	Defense Threat Reduction Agency
E	east
Hz	hertz
IRIS	Incorporated Research Institutions for Seismology
kg	kilogram(s)
km	kilometer(s)
L	lateral
Lidar	Light Detection and Ranging
LANL	Los Alamos National Laboratory
LLNL	Lawrence Livermore National Laboratory
m	meter(s)
m/kt ^{1/3}	meters per kiloton ^{1/3}
N	north
NNSS	Nevada National Security Site
NSL	Nevada Seismological Laboratory
NSTec	National Security Technologies, LLC
PASSCAL	Program for Array Seismic Studies of the Continental Lithosphere
PBXN	polymer-bonded explosive
R	radial
sDOB	scaled depth of burial
SEED	Standard for the Exchange of Earthquake Data
SGZ	surface ground zero
SNL	Sandia National Laboratories
SORD	NNSS Weather Forecast Air Resources Laboratory/Special Operations and Research Division
SPC	State Plane Coordinates
SPE	Source Physics Experiment
sps	samples per second
T	tangential
TNT	trinitrotoluene
UNR	University of Nevada, Reno
UTC	Coordinated Universal Time
Z	vertical

1 Introduction

The Source Physics Experiment (SPE) was a series of chemical explosive tests. The SPE Phase I test bed was constructed in granitic rock of the Climax stock, in northern Yucca Flat at the Nevada National Security Site (NNSS; formerly known as the Nevada Test Site) in 2010–2011 (Figure 1). These tests were sponsored by the U.S. Department of Energy, National Nuclear Security Administration’s Office of Defense Nonproliferation Research and Development. The SPE test series was primarily designed to study the generation and propagation of seismic waves, and provided data that will improve the predictive capability of numerical models for detecting and characterizing underground explosions (e.g., Ford and Walter, 2013; Snelson et al., 2012; 2013). These validated, improved seismic-acoustic models and simulations will enhance the U.S. ability to detect and discriminate “low-yield” nuclear explosions.

The SPE tests were designed and conducted by a consortium of organizations, including Lawrence Livermore National Laboratory (LLNL), Los Alamos National Laboratory (LANL), Sandia National Laboratories (SNL), and the Defense Threat Reduction Agency (DTRA), in conjunction with Mission Support and Test Services, LLC (MSTS). (MSTS replaced National Security Technologies, LLC [NSTec] as the Management and Operations contractor at the NNSS in December 2017.) The University of Nevada, Reno (UNR) assisted in data acquisition and compilation. Other organizations, including the Air Force Technical Applications Center (AFTAC), also participated in data acquisition efforts.

The execution dates and data report references for the SPE tests are listed below.

- | | |
|--|---|
| • SPE-1: May 3, 2011 (NSTec 2014) | • SPE-4Prime: May 21, 2015 (NSTec 2017) |
| • SPE-2: October 25, 2011 (NSTec 2015) | • SPE-5: April 26, 2016 (this report) |
| • SPE-3: July 24, 2012 (NSTec 2015) | • SPE-6: October 12, 2016 (this report) |

The vast majority of data acquired under the SPE program are unclassified/unlimited but subject to a 2-year hold, similar to the policy of the U.S. National Science Foundation. The SPE-5 and SPE-6 time-dependent data (strong motion and seismo-acoustic) have now been released for public access. This report presents information that will aid in the understanding and proper use of the SPE-5 and SPE-6 data sets.

Jesse Bonner, MSTS point of contact (bonnerjl@nv.doe.gov), can be contacted for further information, including information about other data collected at the SPE site.

2 Test Objectives

The SPE-5 and SPE-6 tests provided data for research and development of simulation capability at both near- and far-field distances. In general, the near field is expected to include inelastic nonlinear effects, while the far field can be considered primarily elastic (or visco-elastic).

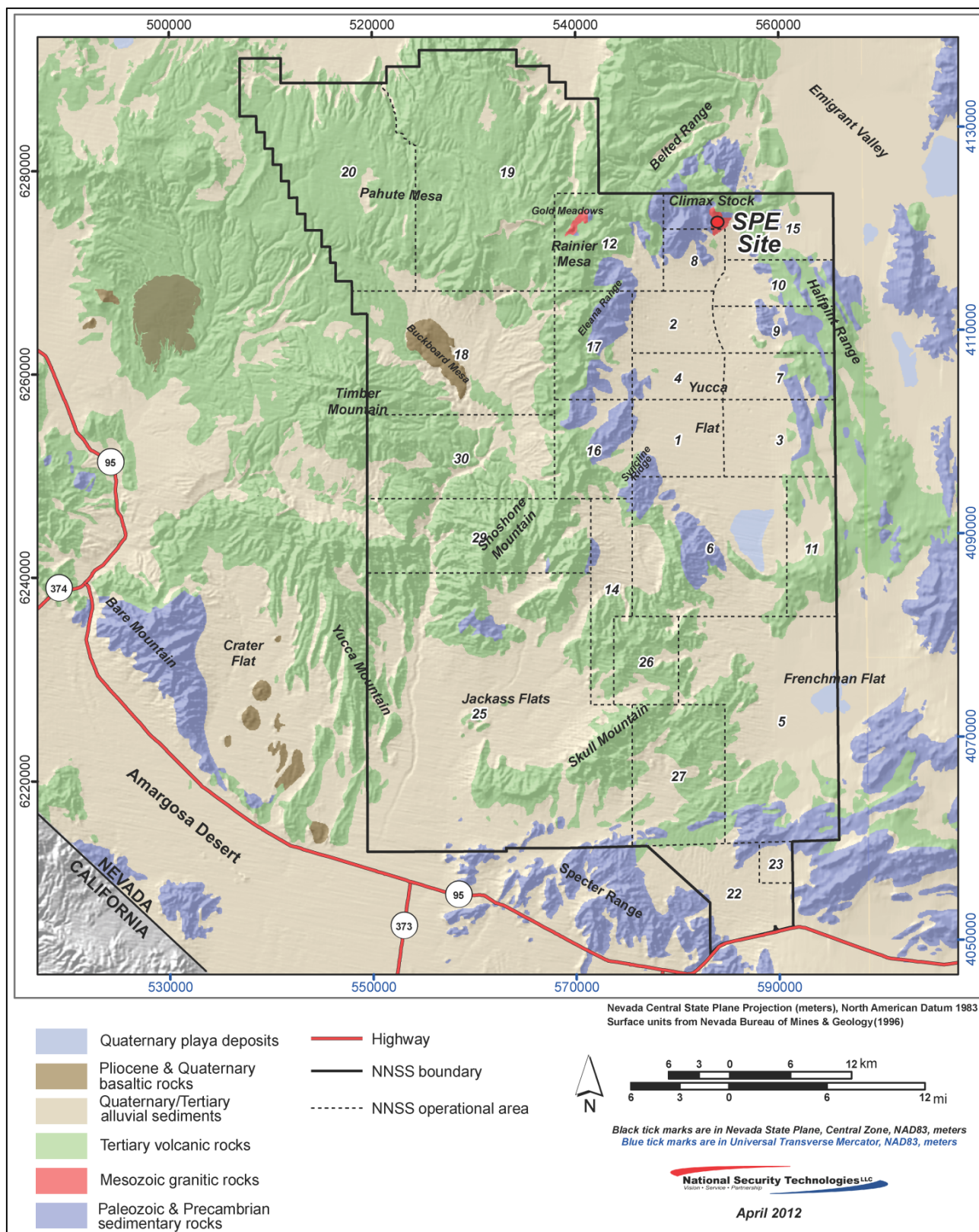


Figure 1
Map Showing Surface Geology and Location of the SPE Experiments at the Nevada National Security Site

2.1 SPE-5

The SPE-5 test was the largest in the series of tests at the Climax stock location, with a yield of 5,035 kilograms (kg) trinitrotoluene (TNT) equivalent set at the depth of 76.5 m in the same source hole as the previous four SPE tests. In particular the SPE-5 test was designed to provide a seismic signal at regional distances (Nevada, Utah, Arizona, and California), over the 0.5 to 10-hertz (Hz) band-width, where there are good recordings of historic nuclear test data for comparison. See a detailed description of the source in Section 4.1.

2.2 SPE-6

The SPE-6 test was conducted in the same source hole as the previous SPE tests, with a yield of 2,240 kg TNT equivalent set at the depth of 31.4 m. The objective of the SPE-6 test was to provide data for comparison of a “normal-depth” explosion, i.e., similar in scaled depth of burial to historic underground nuclear explosive tests, to the more deeply buried SPE tests (e.g., SPE-1 through SPE-4Prime) that produced minimal damage at the surface. See a detailed description of the source in Section 4.3.

2.3 Data Sets

A comprehensive set of strong-motion and seismo-acoustic instrumentation was deployed for both tests. The near-field (< 100 meters [m] from the shot point) instrumentation included high-sample-rate, three-component accelerometers deployed in boreholes. A set of single-component accelerometers was also installed at the surface for each test. At distances at and beyond 100 m (far-field), a large number of seismic and acoustic sensors were deployed at distances up to 400 kilometers (km), including some of the exact locations at which the seismic signals from historic nuclear tests had been recorded. In addition to seismic data, the SPE team collected data from accelerometers, acoustic and infrasound sensors, high-speed video, and other instrumentation. For SPE-5, a temporary deployment of 996 geophones (LargeN), including a mix of vertical and three component sensors, was installed in a variably spaced grid array sited 400 to 3,000 m from the test location.

Following sections of this report provide more detailed information for these data sets. The data and metadata were compiled, archived, and distributed by the technical members of the Nevada Seismological Laboratory (NSL) at UNR. Records for stations at greater distances are available from the permanent UNR seismic network.

The full data sets for SPE-5 and SPE-6, along with associated metadata, are available from the Incorporated Research Institutions for Seismology (IRIS) Data Management Center. The near-field and far-field data sets were submitted separately because they are in different formats. The high sample rates for the near-field recordings are not compatible with the miniSEED format used for the far-field data, and so were submitted separately in SAC format. The near-field data for SPE-5 were assigned the assembled data set number 18-024, with the short name “SPE5.” The near-field data for SPE-6 were assigned the assembled data set number 18-025, with the short name “SPE6.” The LargeN data set was assigned the assembled data set number 18-029. The far-field data for both tests were submitted directly using NSL’s “SN” network code and were merged directly into the IRIS archive.

This report is intended to complement the data sets and provide ancillary information, including selected metadata. However, all data users should verify they are using the full current metadata, including the SN network dataless SEED volume from IRIS for the far-field data, and/or the CSS3.0 metadata from the assembled data sets for the near-field sites.

3 Site Description

The SPE test bed consists of a pad excavated and filled on the side of a hill that slopes to the southeast. The substrate is weathered granite with a thin but variable cover of unconsolidated soil over bedrock. A 0.91-m-diameter source hole was drilled in the center of the test bed, and is surrounded by rings of 0.20- to 0.25-m diameter instrument holes. The site is identified by the NNSS designator U-15n, with the source hole labeled U-15n, and instrument holes labeled U-15n#1, U-15n#2, and so on in the order they were drilled. See sections 3.1.2 and 5.1 for additional information about the instrument holes and sensors installed in them.

3.1 Test Bed Construction

3.1.1 Source Hole

The 0.91-m-diameter source hole was drilled from the surface to a depth of 60.7 m over a period of several months in late 2010 and early 2011, and used for the first three SPE tests. Following SPE-3, the hole was cleaned out and deepened to 103.3 m. The SPE-4Prime, SPE-5, and SPE-6 tests were conducted at increasingly shallow depths by cleaning out the stemming and cables following each test, with no additional deepening of the source hole.

3.1.2 Instrumentation Holes

Instrument holes of varying depths were positioned at various ranges around the SPE source hole for SPE-5 and SPE-6 for accelerometer installation. Some had been in place for all previous SPE tests; others were added following subsequent tests to replace damaged holes or to install sensors at different depths or distances from the source hole (Appendix 1).

Figure 2 shows an aerial view of the SPE test bed with the locations of the source hole and instrument holes (which were installed at various stages during the SPE test series), marked to indicate those added for SPE-5 and SPE-6. Figure 3 shows the locations of four observation holes left open for the tests. Figure 4 shows a cut-away view of the SPE test bed. See additional discussion of the near-field data in Section 5.1, Near-Field Instrumentation.

The following list is a summary of the instrument holes with gauges in place for SPE-5 and SPE-6. See Section 5.1 and Appendices 2, 3, 4, and 5 for additional information about these holes and gauges installed in them.

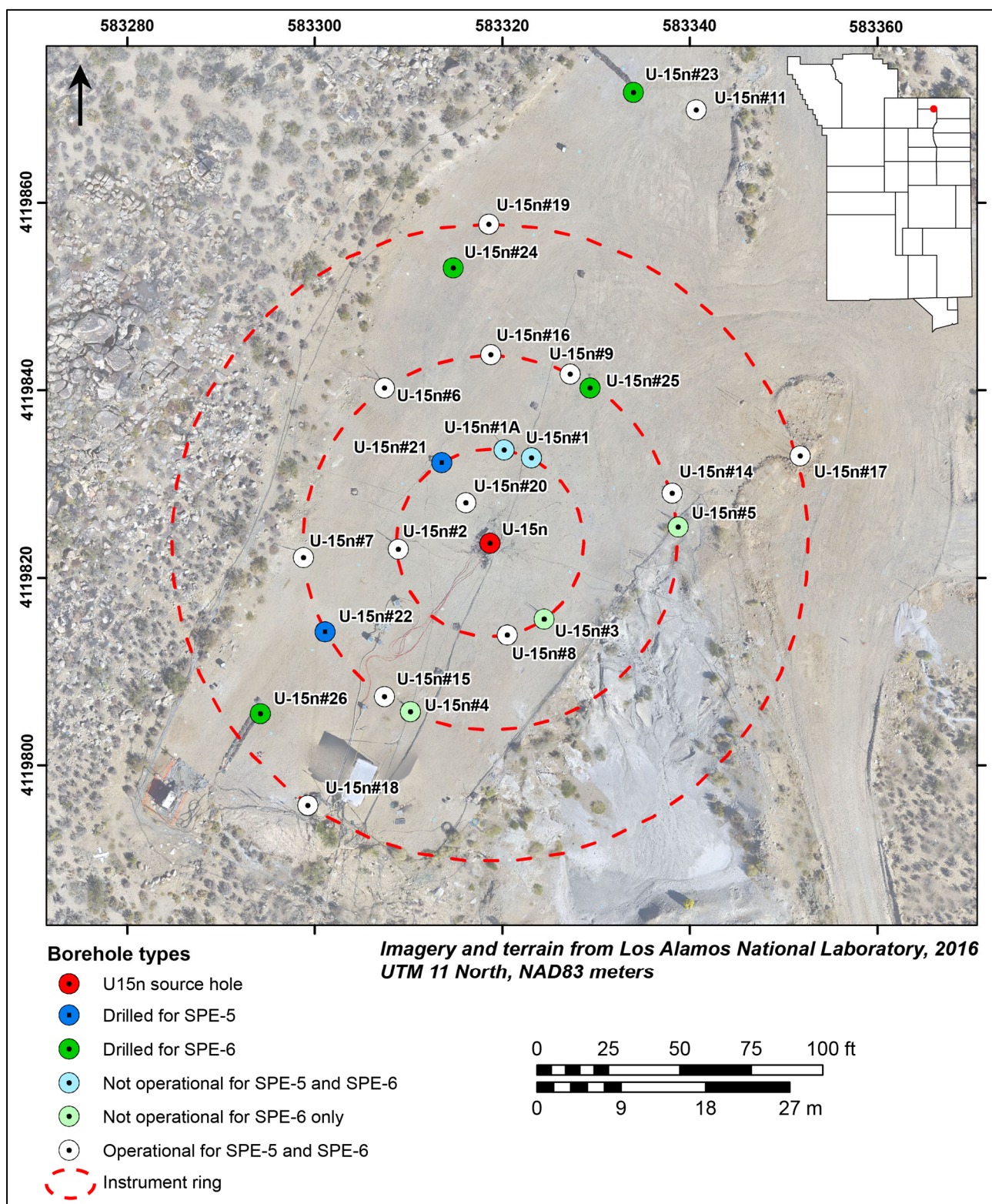


Figure 2
Aerial Photo of the SPE-5 and SPE-6 Test Bed Showing Locations of the Source Hole and Instrument Holes

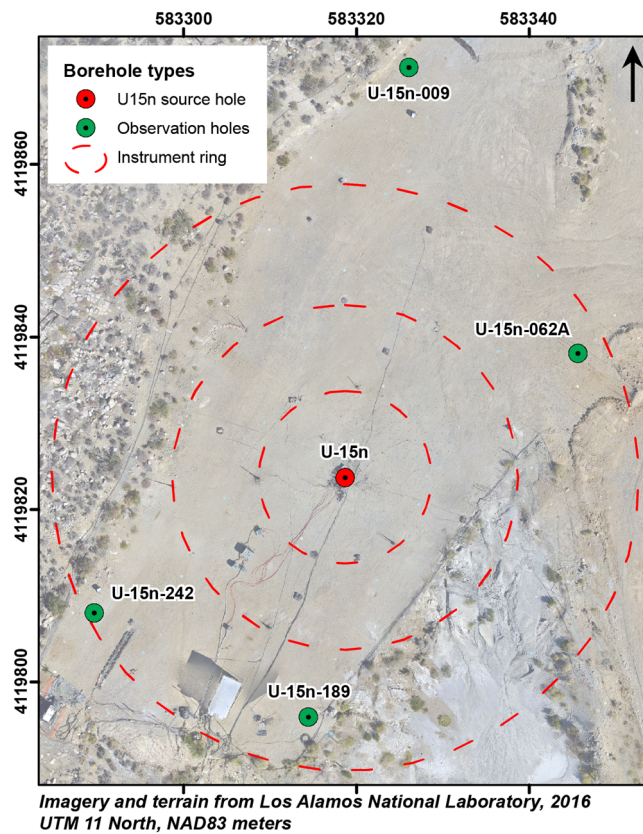


Figure 3
Aerial Photo of the SPE-5 and SPE-6 Test Bed Showing Locations of the Source Hole and Open Observation Holes

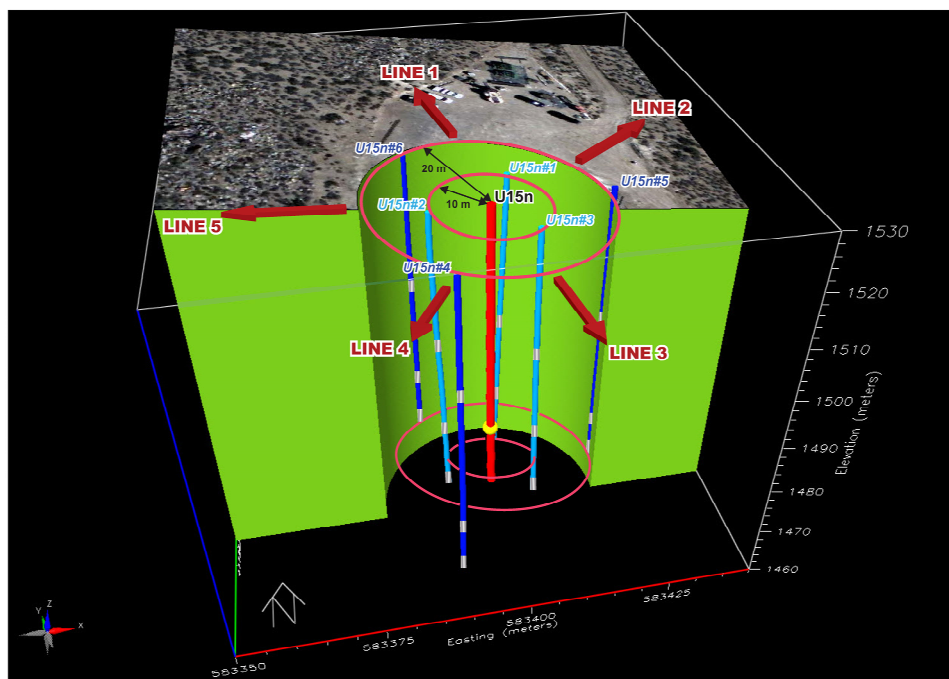


Figure 4
Sketch Showing Cut-Away View of Test Bed for SPE-5 and SPE-6
(All instrument holes not shown.)

- Holes U-15n#1, #1A, #2, #3, #8, and #21 on a 10-m radius ring centered on U15n were all in place prior to SPE-5.
- Holes U-15n#4, #5, #6, #7, #9, #14, #15, #16, and #22, on a 20-m radius ring centered on U-15n, were all in place prior to SPE-5. U-15n#25 was added to this ring prior to SPE-6.
- Instrument hole U-15n#11 at 51.2 m from the source hole was in place prior to SPE-5.
- A ring of three instrument holes (U-15n#17, #18, and #19) on a 34-m radius ring centered on U15n were all in place prior to SPE-5.
- Instrument hole U-15n#20 at 5 m from the source hole was in place prior to SPE-5.
- Instrument hole U-15n#23 at 50.5 m from the source hole was in place prior to SPE-5.
- Instrument holes U-15n#24 and #26 on a 30-m radius ring centered on U15n were in place prior to SPE-6.

Appendix 1 provides construction data for the U-15n source hole and instrument holes.

3.2 Geology

The Climax stock was selected as the site of the first set of SPE tests because its granite lithology provides a relatively “homogenous” medium and because, as the site of three historical underground nuclear tests, abundant geologic, seismic, and ground shock data are available for comparison to SPE test data.

3.2.1 Geologic Setting

The Climax stock is a composite granitic intrusive of Cretaceous age that intruded sedimentary rocks of Paleozoic and Precambrian age. The granite body is exposed at the base of Oak Spring Butte, in extreme northern Yucca Flat (Figure 5). The surface exposures of the granite are weathered to depths ranging from about 7.6 to 38.1 m (Townsend et al. 2012).

The Climax stock is moderately to highly fractured. Three major faults define the structure of the Climax area: the Tippinip fault on the west and the Boundary and Yucca faults on the east and south. The SPE site is located approximately 245 m northwest, at closest approach, from the Boundary fault, which separates the surface exposure of the granitic rocks from the alluvium of the Yucca Flat basin. The Boundary fault dips steeply to the southeast, and offset on it is inferred from gravity data to be approximately 245 m down to the east near the SPE site. The offset apparently decreases to the northeast along the fault trace, as it approaches the junction with the Yucca fault to become the Butte fault (Orkild et al. 1983).

A perched groundwater table is present at the SPE site. The top of this groundwater averages about 22.4 to 24.1 m below the ground surface.

3.2.2 Geologic Characterization Data

Prior to construction of the test bed, a core hole was drilled at the planned location of the source hole. Three additional core holes, two to characterize the damage zones associated with the SPE-2, SPE-3, and SPE-5 tests (U-15n#10, #12, #27), and a general characterization hole (U-15n#13), have also been drilled at various stages in the test series. Geophysical logs (listed below) were run in all the holes to characterize the surrounding rock, and to support installation of instrumentation.

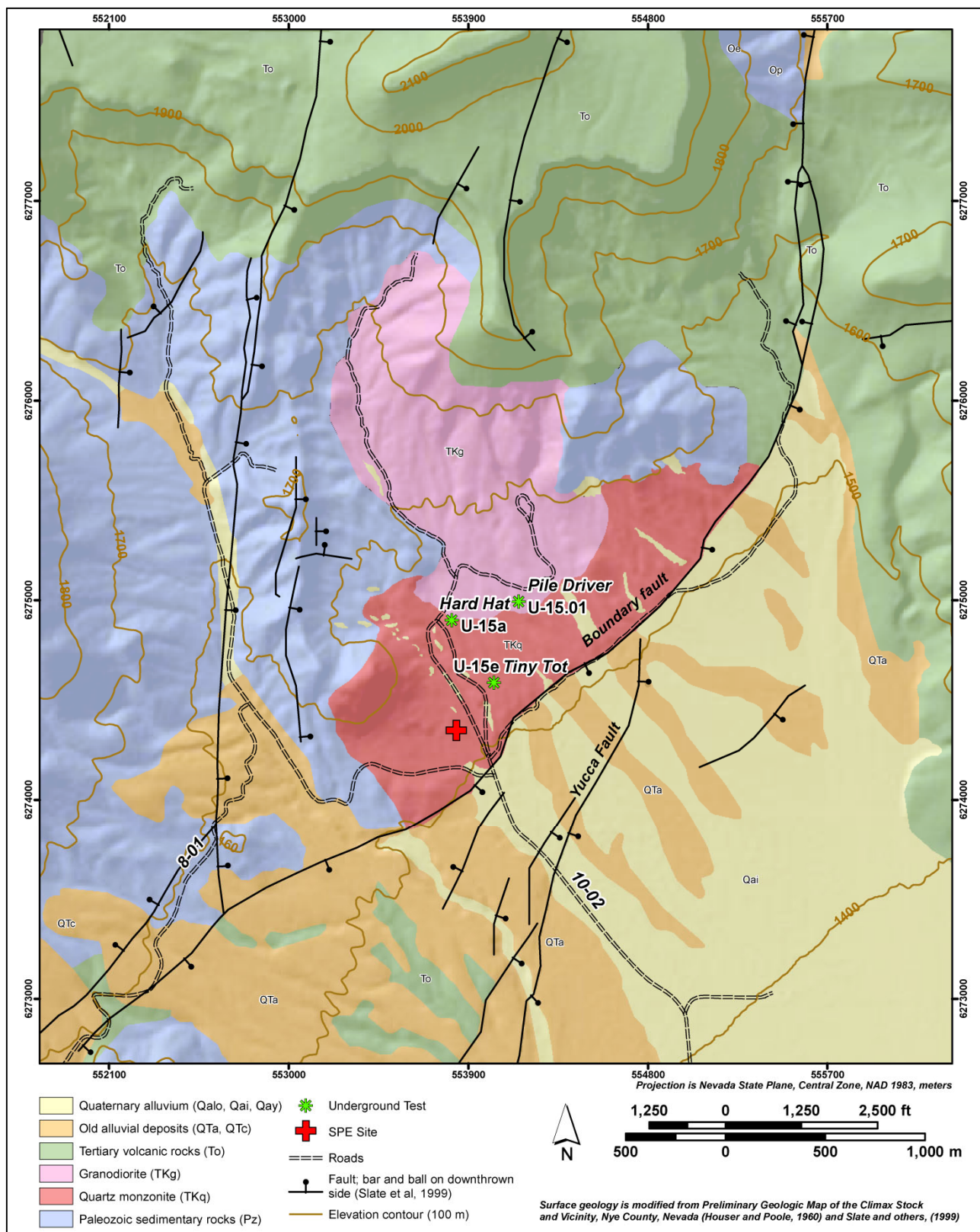


Figure 5
Surface Geologic Map of the Climax Stock Area

- Caliper
- Deviation
- Natural Gamma
- Resistivity
- Full-wave Sonic/Travel Time
- Acoustic Televiewer
- Optical Televiewer (instrument holes only)

Physical and mechanical properties, including fracture characterization (see list below), have been measured by SNL on samples from these holes.

- Bulk density
- Unconfined compressive strength
- Compressional and shear wave velocity
- Direct shear
- Triaxial shear
- Triaxial compression
- Dynamic Brazilian Tension

In addition, LANL has conducted detailed characterization studies of fracture surfaces in the core samples.

Inquiries about geologic characterization data should be directed to the MSTs point of contact, Jesse Bonner (bonnerjl@nv.doe.gov).

4 Test Descriptions

4.1 Explosive Source for SPE-5

The explosive source for SPE-5 was 4,288.7 kg of polymer-bonded explosive (PBXN) –110, equivalent to 5,035 kg of trinitrotoluene (TNT). The PBXN–110 was jointly formulated by LLNL and the U. S. Navy. The explosive was cast in a steel canister (American Petroleum Institute 5L pipe with a yield strength of 52 kilopounds per square inch) by the China Lake Naval Air Warfare Center. The canister was a right circular cylinder with a height of 5.7 m and inside diameter of 0.79 m, for a length-to-diameter ratio of 7.2 to 1.

The loaded canister was transported to the experiment site at the NNSS, where final assembly was completed. The canister was installed in the source hole so that the center of the explosive charge was at the depth of 76.5 m below ground surface.

To fully confine the explosive source, the canister was surrounded by washed $\frac{3}{8}$ -inch pea gravel up to the depth of 70.4 m below ground surface. A layer of sand 0.7 m thick was placed above the gravel, and a 1.9-m-thick grout plug was placed above the sand to a depth of 67.8 m. Alternating layers of sand and gravel were placed above the lower plug to the depth of 34.9 m below ground surface. Another grout plug 3.1 m thick was placed with the top of grout at the depth of 34.9 m. Additional sand and gravel were then placed to fill the hole to a point 0.2 m below ground surface (Figure 6).

The standing water level in the source hole was near the surface at the time of the test, having been forced to rise from its natural level of about 23 m below ground surface, as the stemming materials were added to the hole.

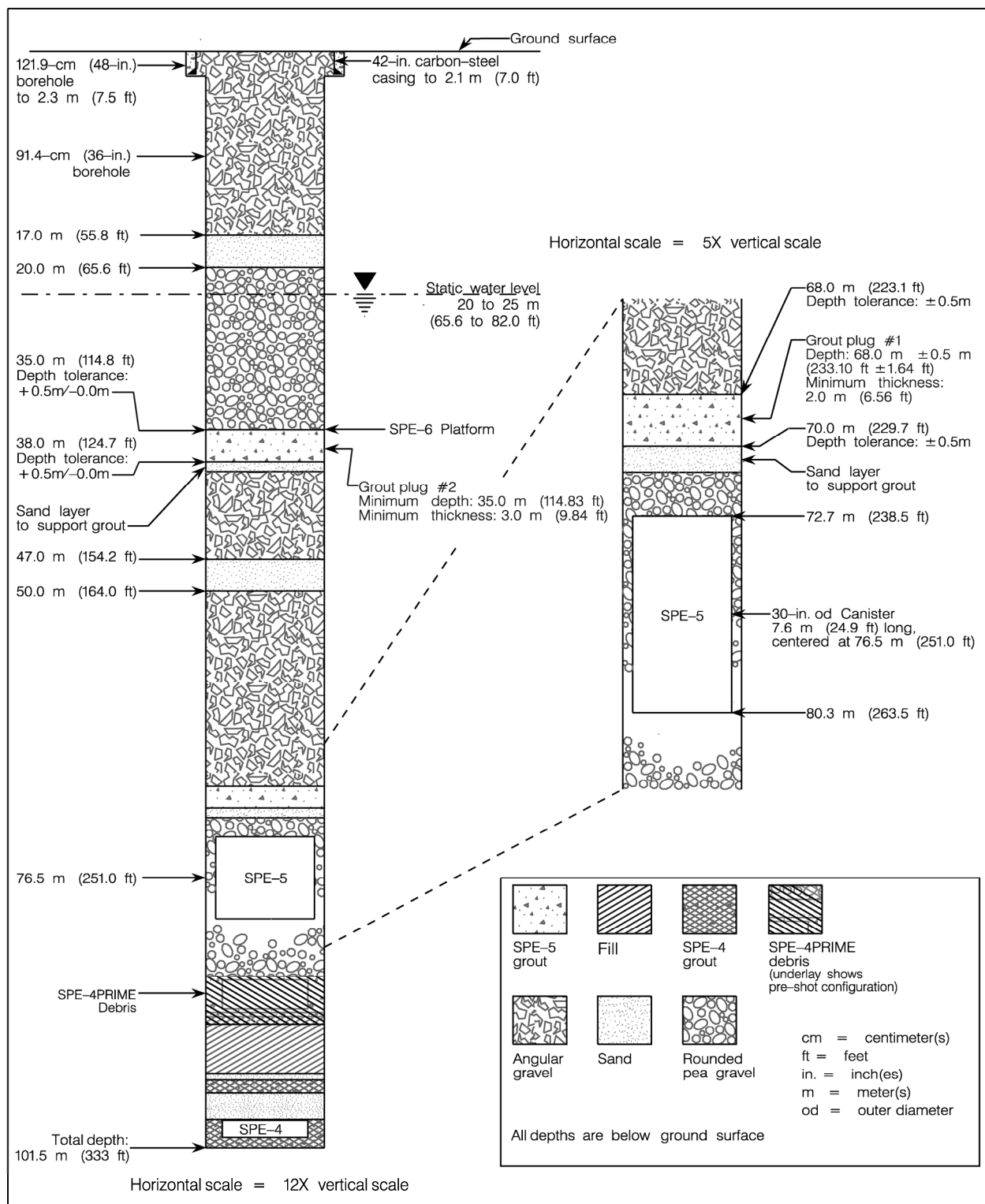


Figure 6
Schematic Drawing Showing Placement of Explosives Canister and Stemming
in the SPE-5 Source Hole

4.2 SPE-5 Detonation

The SPE-5 test was conducted on April 26, 2016 (day 117), at 20:49:00.000,011,680 $\pm$ 350 nanoseconds Coordinated Universal Time (UTC). The location was 37.221207, -116.0608674, at a centroid depth of 76.5 m.

Diagnostic instrumentation installed in the SPE-5 canister provided data on the detonation characteristics. Piezoelectric pins were installed in the booster assembly and piezoelectric pads were positioned on top of the explosive. The difference in shock arrival times between the two sets of sensors indicated that the detonation velocity was rapid and complete.

The explosion was well confined, with no prompt (<1 second) ejecta or gas release. Within a few minutes after detonation, however, water was ejected from three of the open observation holes, located 30 to 40 m from the source hole. No water was observed at the fourth open hole located about 48 m from the source hole. Pressurized gases from the detonation are presumed to have forced the natural groundwater through the extensive natural fracture system documented at the SPE site to the open observation wells.

4.3 Explosive Source for SPE-6

The explosive source for SPE-6 was 1,983 kg of PBXC-141, equivalent to 2,240.2 kg of TNT. The PBXC-141 was jointly formulated by LLNL and the U. S. Navy. The explosive was cast in a steel canister of the same material as the SPE-5 canister by the China Lake Naval Air Warfare Center. The canister was a right circular cylinder with a height of 4.6 m. The explosive mass was 3.0 m long and 0.74 m in diameter, for a length-to-diameter ratio of 4.1 to 1.

The loaded canister was transported to the experiment site at the NNSS, where final assembly was completed. The canister was installed in the source hole so that the center of the explosive charge was at the depth of 31.4 m below ground surface.

To fully confine the explosive source, the canister was surrounded by washed $\frac{3}{8}$ -inch pea gravel up to the depth of 26.6 m below ground surface. A layer of sand 0.8 m thick was placed above the gravel, and a 2.9-m-thick grout plug was placed above the sand to a depth of 22.9 m. Alternating layers of sand and gravel were placed above the lower plug to the depth of 4.7 m below ground surface. Another grout plug 4.1 m thick was placed with the top of grout at the depth of 0.6 m. A final layer of gravel was placed on top of the grout plug to the top of the borehole casing (Figure 7).

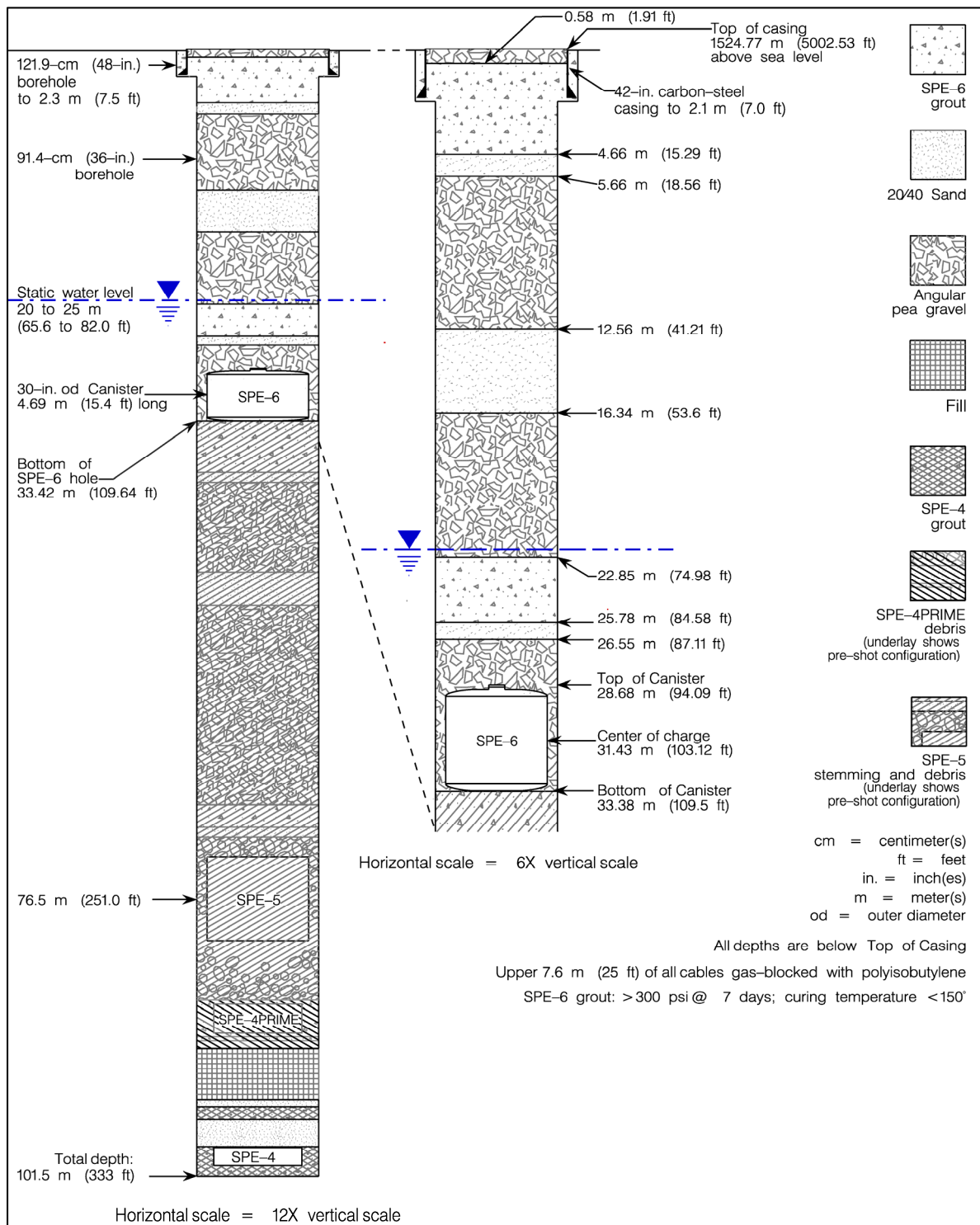


Figure 7
Schematic Drawing Showing Placement of Explosives Canister and Stemming
in the SPE-6 Source Hole

4.4 SPE-6 Detonation

The SPE-6 test was conducted on October 12, 2016 (day 286), at 18:36:00.000,010,904±300 nanoseconds UTC. The location was 37.221207, -116.0608674 at a centroid depth of 31.4 m.

Diagnostic instrumentation installed in the SPE-6 canister provided data on the detonation characteristics. Piezoelectric pins were installed in the booster assembly and piezoelectric pads were positioned on top of the explosive. The difference in shock arrival times between the two sets of sensors indicated that the detonation velocity was rapid and complete.

Videos showed mist, gas, and/or dust blowing out of several borehole shortly after the SPE-6 detonation. At an unknown time after this initial degassing, mist, dust, and/or gas could be seen coming out of the U-15n source hole. Prompt and continuing hydrologic effects from the SPE-6 test vary greatly among the four observation wells, suggesting different degrees of hydrologic connection between them and the U-15n source hole.

5 Near-Field Instrumentation

Near-field instrumentation (defined as less than 100 m from the source) for SPE-5 and SPE-6 included accelerometers installed in boreholes and on the surface, as described in this section.

5.1 Borehole Accelerometers

5.1.1 Installation Details

As described in Section 3.1.2, a number of boreholes were drilled to accommodate installation of near-field instrumentation packages. Many of the accelerometer packages placed to measure the near-field environments of earlier tests, SPE-1, SPE-2, SPE-3, and SPE-4Prime, were still operating at the time of the SPE-5 and SPE-6 tests. The emplacement details for these instruments are described in the data release reports (NSTec 2014, 2015, 2017) for those tests and are not repeated here.

With the exception of holes #20 and #21, each package contained three accelerometers in “triaxial” orientations to help characterize the near-source shock environment. The packages in holes #20 and #21 contained only single axis accelerometers. Figure 2 shows a plan view of those instrumentation boreholes. Figure 8 is a section view representation of the instrumentation with all holes projected onto a single plane. This section view indicates packages at various depths in the different holes as a function of when they were placed relative to the various tests.

The individual transducers (radial, or R-component; longitudinal, or L-component; and transverse, or T-component) within each triaxial set was oriented relative to the position of the canister:

- For the packages at the 15-m depth, the orientations were configured in a spherical coordinate system, with the R component being in the radial direction from the center point of the SPE-2/SPE-3 tests. The L component and T components were mutually orthogonal to each other and to the R component, and oriented tangential to a sphere centered on the SPE-2/SPE-3 center point.

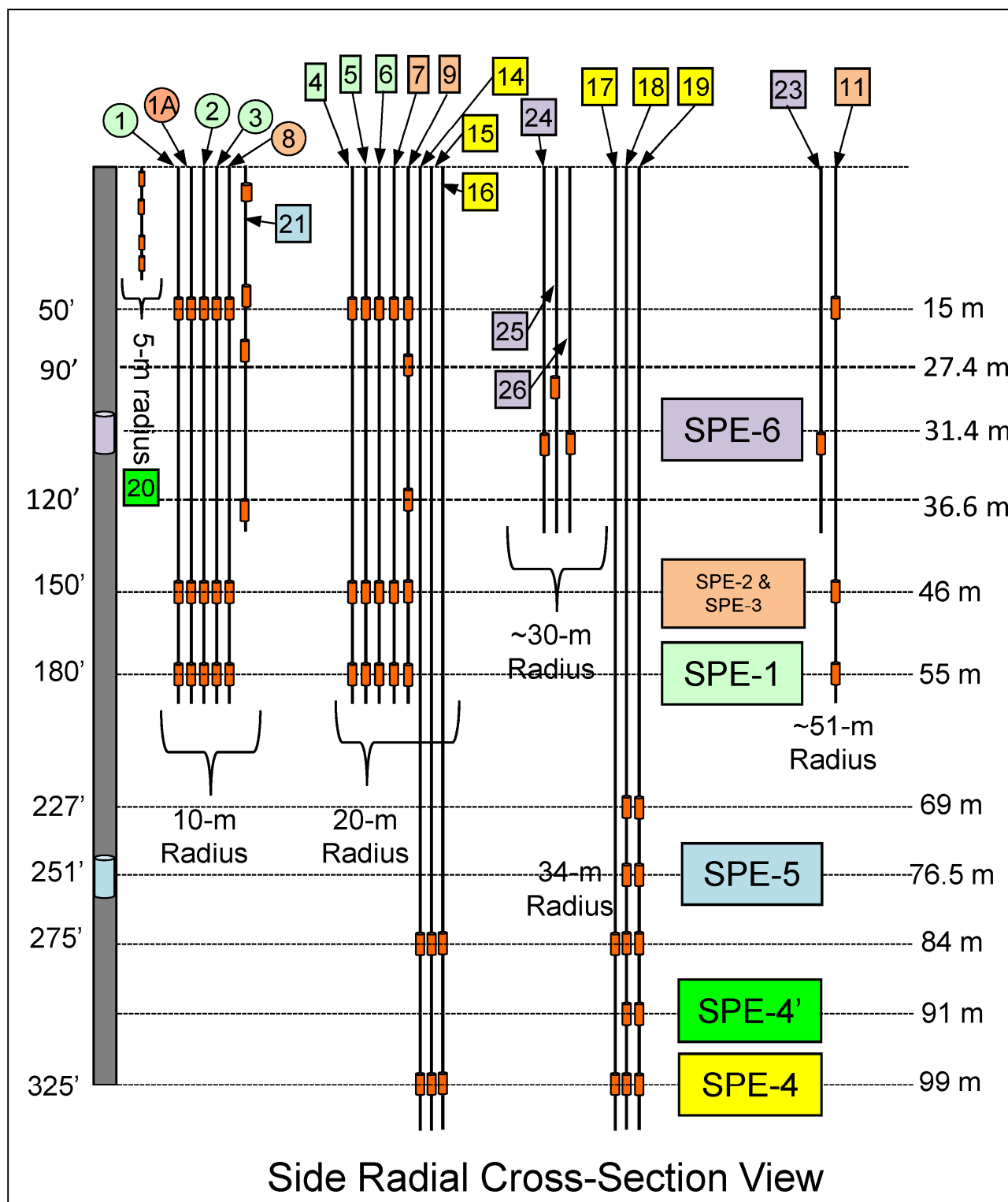


Figure 8

Diagram Showing Typical Near-Field Gauge Package Arrangement for all SPE Tests

See Tables 1 and 2 for more specific information about the near-field gauges.

- For all other depths the orientations were configured in a cylindrical coordinate system, with the R component being in the horizontal radial direction from axis of U15n. The L component is vertical. T component is horizontal and mutually orthogonal to the R component and the L component.

The single axis packages in holes #20 and #21 were all vertically sensing. These instruments were placed specifically to determine depth of spall related to interaction of the shock wave with the ground surface.

With respect to timing and emplacement of the individual packages, all transducers that were in place and which survived attrition due to loading and time, were recorded in all tests. However, we will note that in preparation for future testing SPE was used as testbed for new instrumentation. In the course of this work the responsible subject matter experts determined that the data in hole #22 indicated insufficient quality to be included in this SPE-5/SPE-6 data release.

Additionally, the new recording system introduced for SPE-6 was determined to be electronically incompatible with prior instrumentation installations. Consequently, the release for SPE-6 includes only those borehole gauges in #20, #21, #23, #24, #25, and #26.

Appendices 2, 3, 4, and 5 provide information about sensors in place for the SPE-5 and SPE-6 tests; however, all data users should verify they are using the full current metadata posted with the sensor data at IRIS.

5.1.2 Naming Convention for Borehole Accelerometers

For all boreholes, the gauge packages are named with a three-character alphanumeric designation, with individual characters separated by a dash. The first character represents the borehole number as defined above. The second character represents the package depth relative to all packages in the individual borehole. Specifically, the depth begins at “1”, representing the deepest package in each respective hole, and counting up within the hole. Finally, the third character represents the orientation within the triaxial set of transducers. For example, the radial (R) transducer at the 91-m depth (depth “2”) in borehole #19 is 19-2-R; the longitudinal (L) transducer at the 99-m depth (depth “1”) in borehole #14 is 14-1-L.

Tables 1 and 2 list all near-field gauges that recorded data for the SPE-5 and SPE-6 tests, respectively. Figure 8 illustrates the gauge package arrangement for all the SPE tests.

Table 1
List of Near-Field Gauges Installed in Boreholes for the SPE-5 Test

See notes at bottom of Table 2 for additional information

Gauge Package Number	Depth in Borehole (feet)	Depth in Borehole (meters)	Distance from Source Hole (meters)
2-1-R	180	54.9	10
2-1-T			
2-1-L			
2-3-R	50	15.2	10
2-3-T			
2-3-L			
3-3-R	50	15.2	10
3-3-T			
3-3-L			
4-3-R	50	15.2	20
4-3-T			
4-3-L			
5-2-R	150	45.7	20
5-3-L	50	15.2	20
5-3-R			
5-3-T			
6-1-R	180	54.9	20
6-1-T			
6-2-R	150	45.7	20
6-2-T			
6-2-L			
6-3-R	50	15.2	20
6-3-T			
6-3-L			
7-1-R	180	54.9	20
7-1-T			
7-1-L			
7-2-R	150	45.7	20
7-2-T			
7-2-L			
7-3-R	50	15.2	20
7-3-T			
7-3-L			
8-1-T	180	54.9	10
8-1-L			
8-2-R	150	45.7	10
8-2-T			
8-2-L			
8-3-R	50	15.2	10
8-3-T			
8-3-L			
9-1-R	180	54.9	20
9-1-T			
9-1-L			
9-2-R	150	45.7	20
9-2-T			
9-2-L			
9-3-R	120	36.6	20
9-3-T			

9-3-L			
9-4-R	90	27.4	20
9-4-T			
9-4-L			
9-5-R	50	15.2	20
9-5-T			
9-5-L			
11-1-R	180	54.9	51.2
11-1-T			
11-1-L			
11-2-R	150	45.7	51.2
11-2-L			
11-3-R	50	15.2	51.2
11-3-T			
14-1-R	325	99.1	20
14-1-R1			
14-1-T			
14-1-L			
14-2-R	275.8	84.1	20
14-2-R1			
14-2-T			
14-2-L			
15-1-R	325	99.1	20
15-1-R1			
15-1-T			
15-1-L			
15-2-R	275.8	84.1	20
15-2-R1			
15-2-T			
15-2-L			
16-1-R	325	99.1	20
16-1-R1			
16-1-T			
16-2-R	275.8	84.1	20
16-2-R1			
16-2-T			
16-2-L			
17-1-R	325	99.1	34
17-1-R1			
17-1-T			
17-1-L			
17-2-R	275.8	84.1	34
17-2-T			
17-2-L			
18-1-R	32	99.1	34
18-1-T			
18-1-L			
18-2-R	304.4	92.8	34
18-2-T			

Table 1
List of Near-Field Gauges Installed in Boreholes for the SPE-5 Test (cont.)

Gauge Package Number	Depth in Borehole (feet)	Depth in Borehole (meters)	Distance from Source Hole (meters)
18-2-L			
18-3-R	275.8	84.1	34
18-3-T			
18-3-L			
18-4-R	251	76.5	34
18-4-T			
18-4-L			
18-5-R	226.5	69.0	34
18-5-T			
18-5-L			
19-1-R	325	99.1	34
19-1-T			
19-1-L			
19-2-R	304.4	92.8	34
19-2-T			
19-2-L			
19-3-R	275.8	84.1	34
19-3-T			

Gauge Package Number	Depth in Borehole (feet)	Depth in Borehole (meters)	Distance from Source Hole (meters)
19-3-L			
19-4-R	251	76.5	34
19-4-T			
19-4-L			
19-5-R	226.5	69.0	34
19-5-T			
20-1-L	10.0	3.0	5
20-2-L	7.0	2.1	5
20-3-L	4.0	1.2	5
21-1L-1	123.7	37.7	10
21-1L-2			
21-2L-1	84.4	25.7	10
21-2L-2			
21-3L-1	45.0	13.7	10
21-3L-2			
21-4L-1	18.8	5.7	10
21-4L-2			

Table 2
List of Near-Field Gauges Installed in Boreholes for the SPE-6

Gauge Package Number	Depth in Borehole (feet)	Depth in Borehole (meters)	Lateral Distance from Source Hole (meters)
23-1A-T	104.0	31.7	50.5
23-1B-T			
23-1A-R			
23-1B-R			
23-1A-L			
23-1A-L			
24-1A-T	101.7	31.0	29.7
24-1B-T			
24-1A-R			
24-1B-R			
24-1A-L			
24-1B-L			

Gauge Package Number	Depth in Borehole (feet)	Depth in Borehole (meters)	Lateral Distance from Source Hole (meters)
25-1A-T	89.6	27.3	19.7
25-1B-T			
25-1A-R			
25-1B-R			
25-1A-L			
25-1B-L			
26-B1A-T	105.0	32.0	30.5
26-B1B-T			
26-B1A-R			
26-B1B-R			
26-B1A-L			
26-B1B-L			

Notes for both tables:

In the Gauge Package Column:

- First numeral in gauge package number column indicates the instrument hole number in which the gauge package is installed.
- Second numeral is the order number of package in each hole, with gauge package 1 being the deepest.
- Third character indicates the orientation of the gauge: R=radial, T=transverse; L=lateral.

See Appendices 2, 3, 4, and 5 for additional information about the gauges.

5.1.3 As-Built Adjustments of Near-Field Gauge Positions

The description above provides nominal distances and directions between the gauges and the source, as if the source hole and instrumentation boreholes were perfectly vertical. However, due to the nature of the drilling process, none of the boreholes on the SPE test bed is truly vertical. The orientation (“deviation” from vertical) of each hole was measured after drilling, and the deviation data are used to determine the exact position of each gauge position and its distance from the source. These data are included with the SPE-5 and SPE-6 data packages, and are also listed for each gauge in Appendices 2 and 4. These data should be used for determining as-built locations of both the charge and the accelerometers.

5.2 Near-Field Surface Accelerometers

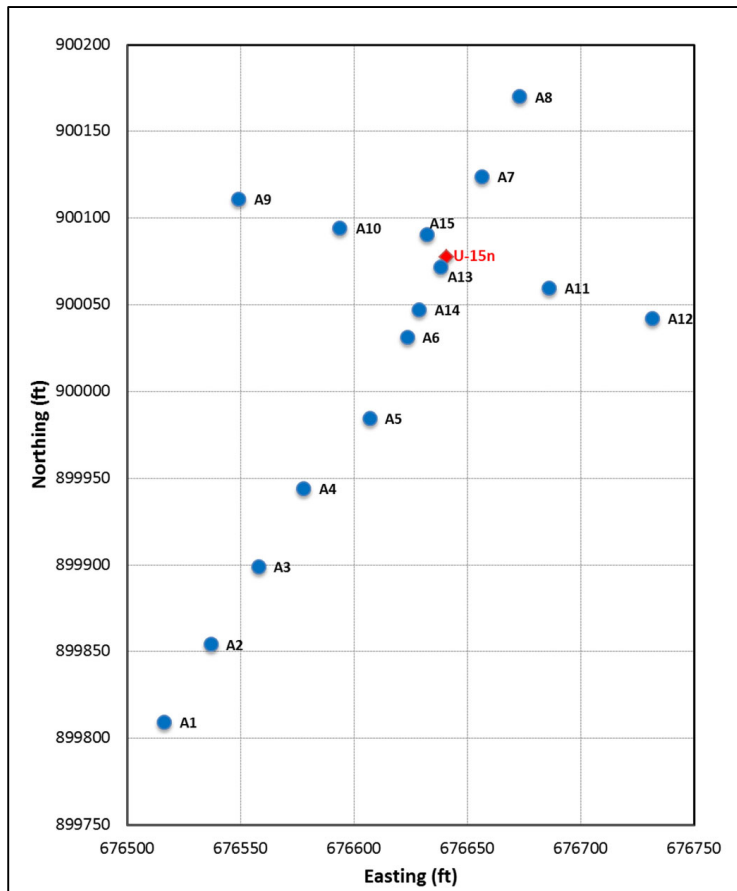
An array of vertical single-axis accelerometers was placed on the ground surface to indicate extent, if any, of surface spall. Figure 9 shows two rings of accelerometers at the ranges of 15 m and 30 m from the source hole on various azimuths. Another line of accelerometers was placed along an azimuth southwest from the source hole at distances of 2, 10, 15, 30, 45, 60, 75, and 90 m from the source hole.

6 Far-Field Instrumentation

Four primary types of far-field sensors, seismic, infrasound, and weather, were deployed for the SPE-5 and SPE-6 tests, as described in the following sections.

6.1 Seismic Instrumentation for SPE-5 and SPE-6

To characterize the far-field seismic wavefield (defined as 100 m or more from the source), a number of different instrument arrays were deployed to distances as great as 400 km. The primary set of far-field seismic data collected for the SPE-5 and SPE-6 tests came from lines of geophones in place for all six of the SPE tests conducted at the Climax stock test bed. The Nevada Seismological Laboratory at UNR installed or reestablished 31 regional broadband stations in late 2015 for the SPE-5 and SPE-6 tests. For SPE-5 an additional set of data was collected from a grid of 996 closely spaced geophones placed 400 to 3,000 m southeast of the test bed. The following sections provide information about all three types of seismic arrays.



Accelerometer Label	Station ID
A1	DT018
A2	DT017
A3	DT016
A4	DT015
A5	SL007
A6	SL008
A7	SL009
A8	DT013
A9	DT014
A10	SL010
A11	SL011
A12	SL012
A13	DT007
A14	DT008

Figure 9

Plan View of Surface Accelerometer Layout for SPE-5 and SPE-6

See additional location data for accelerometers in Appendices 6 and 7. Chart above provides key to Station IDs.

6.1.1 Geophone Lines

Seismic sensors were installed in five radial lines extending out from the SPE test bed. Line 1 extended to the north and Line 2 extended to the northeast; both lines were relatively short due to proximity to the boundaries of the NNSS. Lines 3 and 4 extended to the south and southwest, while Line 5 extended roughly northwest. Instrument density on Line 5 is lower than on the other lines because steep topographic gradients hindered deployment (Figures 10 and 11).

As described in Section 8.1.1.2, data from all the stations except the four “mesa” stations of Line 5 (L5028, L5030, L5034, and L5036), located at the far western portion of the line, were telemetered in real time to the NSL data center in Reno. For the four mesa stations, recording was conducted on 6-channel RefTek 130 digitizers powered by batteries that were trickle-charged by solar panels. Data were stored to disk and collected manually at intervals.

It is important to note that data polarity standards for geophones and seismometers differ. Geophones produce negative voltages for upward ground motion, while the seismometers and accelerometers produce positive voltages for upward ground motion. This polarity standard is extended to three components in the case of three-component geophones. Geophone polarity

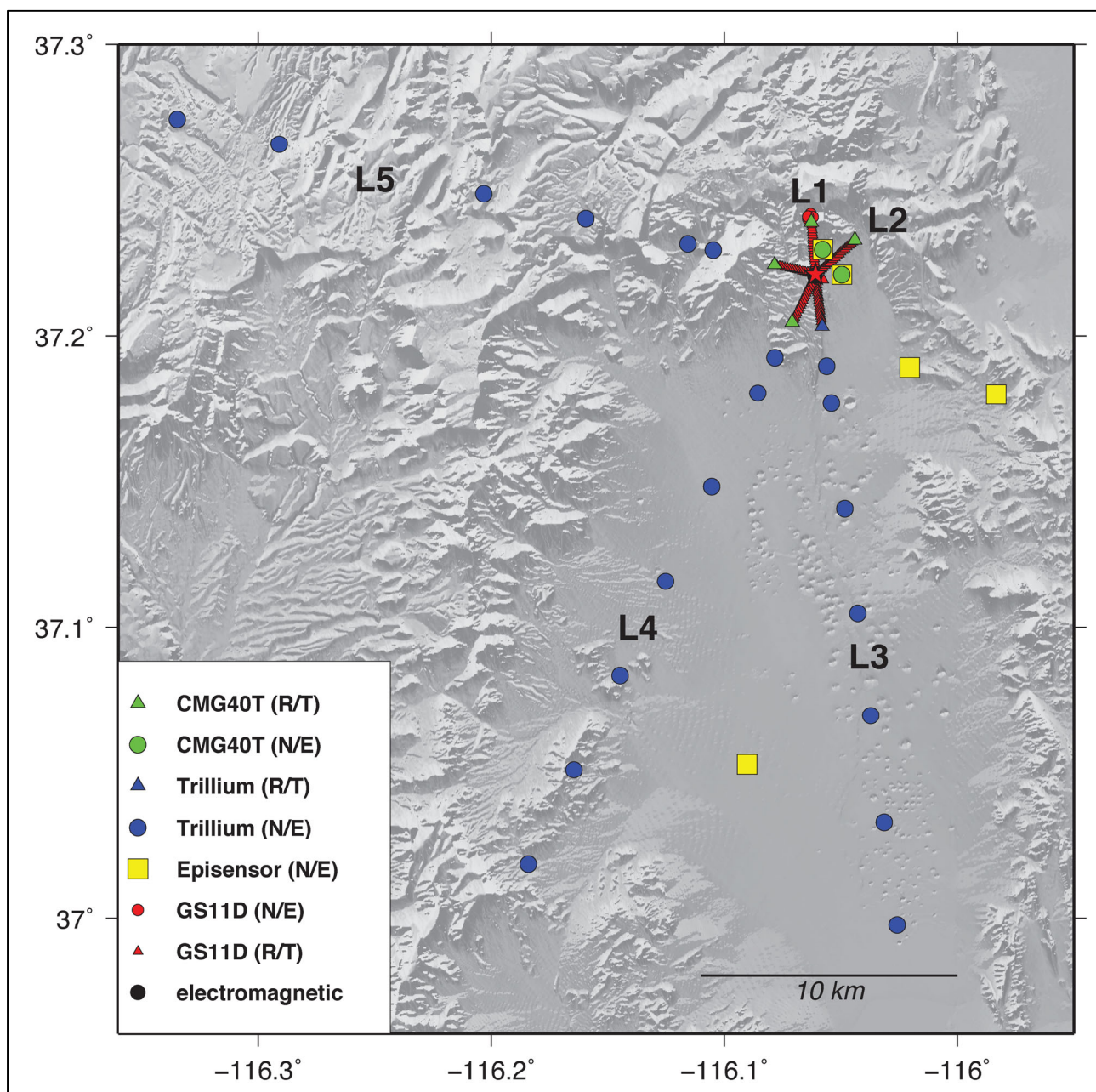


Figure 10

Map Showing Locations of Far-Field Instrumentation Layout for SPE-5 and SPE-6

See expanded view of close-in geophone locations (red symbols) on Figure 11. See text for information on sensors.

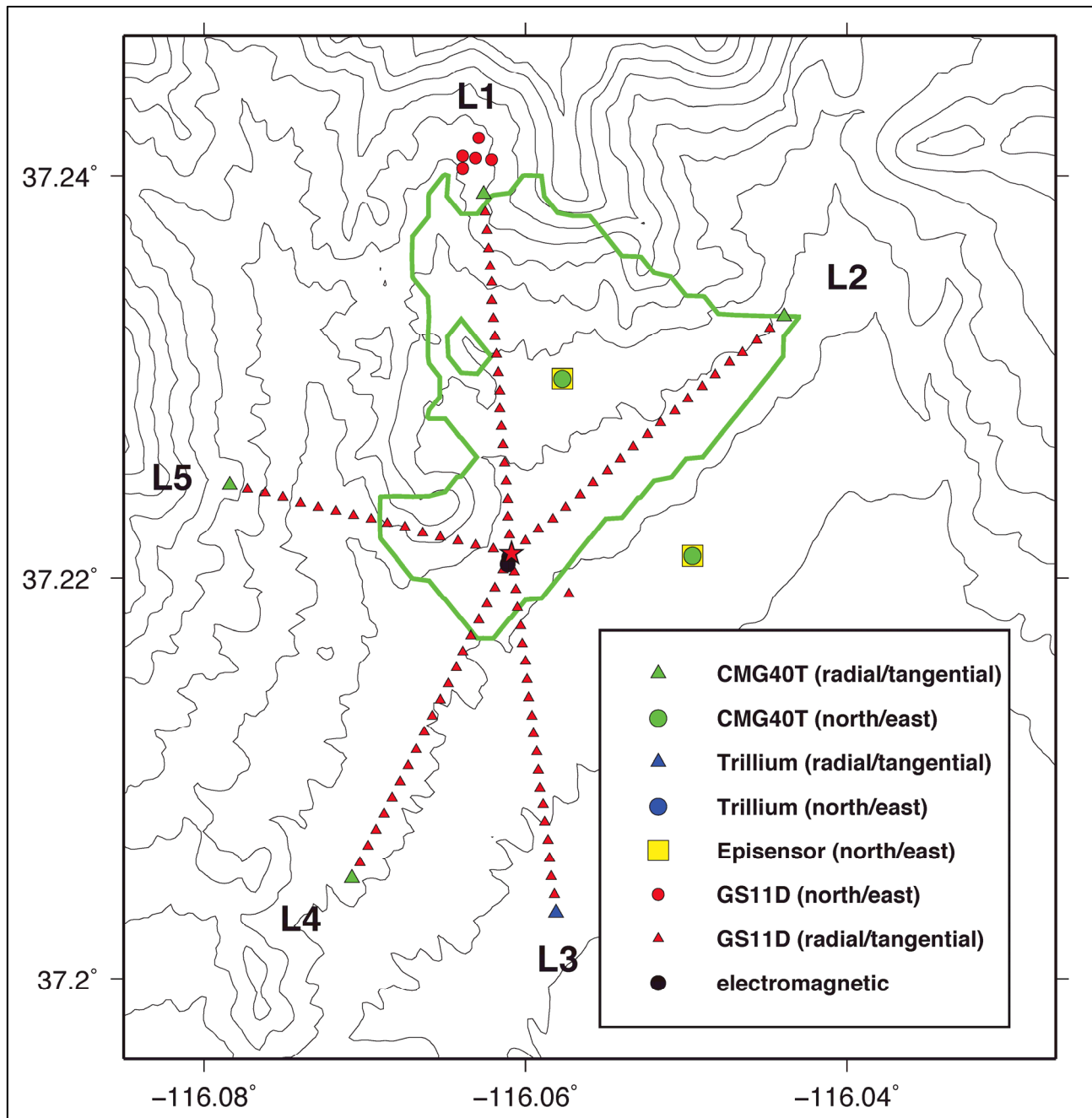


Figure 11
Map Showing Locations of Geophones Placed within Approximately 2 Kilometers of the
SPE-5 and SPE-6 test Locations

Nominal distance between instruments is 100 meters. The green line is the approximate outline of the granite body at the surface. See text for information on sensors.

follows a right-hand-rule standard with vertical pointing into the earth. The data in this collection are exactly as recorded by the sensors.

Characteristics of the instruments installed along the five geophone lines are summarized below. Exact details such as sensor type and response can be found in the metadata as well. Appendices 6 and 7 contain summaries of location and instrument information for each surface sensor site. However, all data users should verify they are using the full current metadata posted with the data.

Geospace GS-11D 4.5-Hz geophones were deployed in five linear arrays, radiating from SGZ from 100 m to 1.9 km. Nominal station spacing is 100 m, with some expected locations skipped due to steep topography (mostly along Line 5). All are three-component sensors oriented radial, transverse, and vertical to SGZ. The geophones are buried less than 0.5 m deep in native material, with sandbags placed on top. A small array of five Geospace GS-11D geophones was also deployed just north of the end of Line 1. Gains were set to unity on the Reftek instruments for the tests.

Guralp CMG 40T three-component seismometers are installed at the ends of the geophone lines 1, 2, 4, and 5, 2 km distant from SGZ, and a Nanometrics Trillium seismometer was installed at the 2-km distance on Line 4. The components are oriented radial, transverse, and vertical. All are installed on a concrete pad set less than 10 cm into the soil.

Lines 3, 4, and 5 are extended beyond 2 km (to a maximum of 25 km) by either six or seven Nanometrics Trillium Compact seismometers each, oriented radial north-south, east-west, and vertical (Figure 10). The instruments are installed on a concrete pad set less than 10 cm into the soil. Two stations on Line 5 (L5-28 and L5-34) were very close (centimeters) to bedrock, so at those locations the broadband instruments were covered by a sensor case in an ice chest (not barometrically sealed) covered with sandbags.

On the broadband Compact Trillium sensors on Lines 3, 4, and 5, channels 1, 2, and 3, were oriented positive, up, north, and east, respectively. Orientation was estimated visually in the field, and the error is estimated to be less than about 5 degrees, as checked by later precise orientation measurements. At the 2-km distance and beyond, sensor orientations are set with respect to cardinal directions and not radial/tangential. This difference is denoted in the channel names. Timing was established by Geographic Positioning System receivers at each cataloger/digitizer. RefTek logs were reviewed for timing errors during data compilation.

In addition to this instrumentation, AFTAC deployed instruments at five sites. Kinometrics Episensors were located at all five sites, and Guralp CMG40T three-component seismometers were placed at the two sites closest to the source hole (Figure 10). All sites were equipped with Chaparral infrasound sensors. All sensors were oriented to north (N), east (E), and vertical (Z) and recorded on Reftek digitizers.

6.1.2 Non-SPE Stations Operated on the NNSS, in Southern Nevada, and in Eastern California by NSL

In anticipation of the higher-yield SPE-5 test, the NSL and Weston Geophysical Corporation installed 31 regional broadband stations in late 2015, which remained in place for SPE-6. In addition, the NSL compiled SPE-5 and SPE-6 data from 31 stations in southern Nevada on or near the NNSS. Many of these had been reestablished at locations at which data from the 1993 Nonproliferation Experiment (NPE) or the 1985 KINIBITO underground nuclear explosive test (UNE) had been recorded, in order to provide a comparison of data from these legacy events with the SPE test data for identical travel distances, topography, and geology. Some of the stations provided “live” data via telemetry, while others required that the data be manually retrieved. Table 3 lists the types of stations included in the SPE-5/SPE-6 data release; locations of these stations are shown on Figure 12. Attachment 1 provides location and sensor information for all these stations, which is summarized in this section.

All data are included in the data releases for SPE-5 and SPE-6, and all NSL data in northern and southern Nevada and eastern California (UNR 1995; doi:10.7914/SN/SN) are available from the IRIS Data Management Center (DMC) in Seattle, Washington (<http://ds.iris.edu/ds/nodes/dmc/>).

The signal from SPE-5, and in some cases for the smaller SPE-6, was detected as far as 300 to 400 km away. Data from most adjoining regional networks are available from the IRIS DMC (i.e., Utah, Arizona). Seismic waveform data from the Southern California Seismic network (network code CI) are available at Southern California Data Center (<http://scedc.caltech.edu/research-tools/waveform.html>). Data from Northern California networks (NC – USGS Northern California Network; BK – UC Berkeley Seismic Network) are available from the NCEDC (Northern California Earthquake Data Center; <http://ncedc.org>).

6.1.3 Large N Seismic Array for SPE-5

A temporary deployment commonly referred to as “Large N,” and consisting of 996 geophones, was installed 400 to 3,000 m from the SPE-5 test location (Mellors et al. 2017, provided as Attachment 2). The array included 500 vertical and 496 three-component, 5-Hz geophones at spacings that varied from 25 to 100 m (Figure 13). The geophones were in place ten days before the SPE-5 test and were left in place for several weeks after the test to record local, regional, and teleseismic earthquakes. Data were recorded continuously during the deployment at low-gain from April 18 to April 28 and high gain (36 decibels) from April 29 to May 23, 2016. Data recovery was good, with 95% of data recovered from the tests, and up to 99% in the following weeks.

In addition, a set of large weight-drops at 53 locations both inside and outside the geophone array were also recorded. Inquiries about the weight drop data should be directed to the MSTs point of contact, Jesse Bonner (bonnerjl@nv.doe.gov).

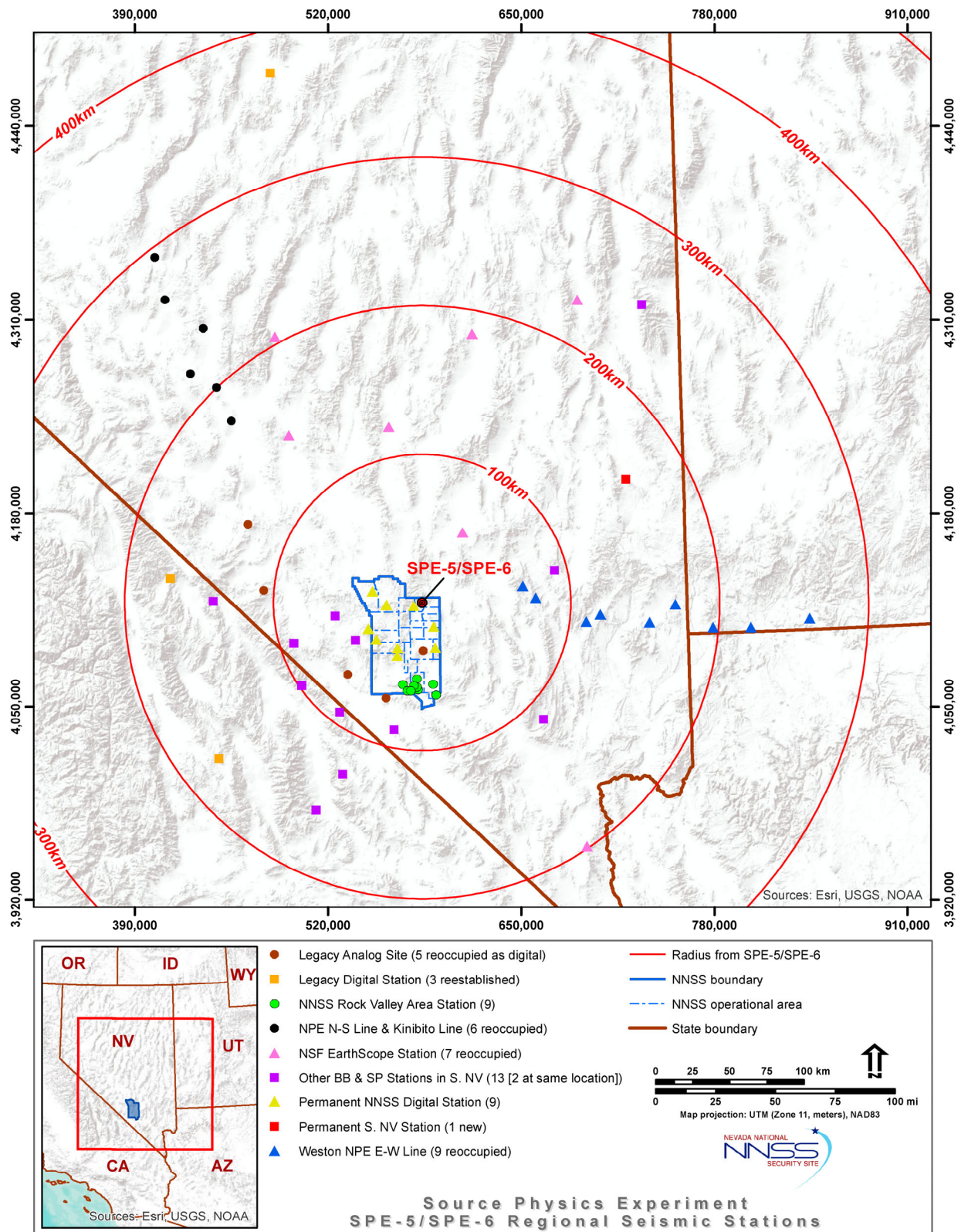


Figure 12
Map Showing Locations of Regional Seismic Stations in Place for SPE-5 and SPE-6
 Note that this map shows only NSL and SPE regional stations. All regional data are available from organizations described in Section 6.1.2.

Table 3
Seismic Stations in the Central and Southern Nevada Area Operated for SPE by the NSL

Category	Number of Stations	Sensor Type ¹
New digital broadband stations added prior to SPE-5	31	BB
Weston NPE E-W Line: Reoccupation of 1993 east-west geophone line from the Non-Proliferation Experiment	9	BB
National Science Foundation EarthScope Station Reoccupation of Transportable Array Network stations	7	BB
NPE N-S Line and KINIBITO Line Reoccupation of the north-south line originally in place for the 1993 Non-Proliferation Experiment (Zucca 1993) and for the 1985 KINIBITO UNE (Chavez and Priestly 1986)	6	BB
Legacy Analog Site – Digital Reoccupation with digital sensors of stations that recorded UNEs with analog sensors	5	BB
Legacy Digital Stations Reestablished at locations of stations that recorded UNEs	3	BB
Permanent southern Nevada station installed in 2015	1	BB
NNSS Rock Valley area stations	9	BB + 2 SP installed in boreholes
Permanent NNSS digital stations	9	SP
Other BB and SP stations operated by NSL in southern Nevada	13	BB

Notes:

1. SP = Three-component S-13 sensors
BB = Various broadband sensors, as described in the metadata for the experiment

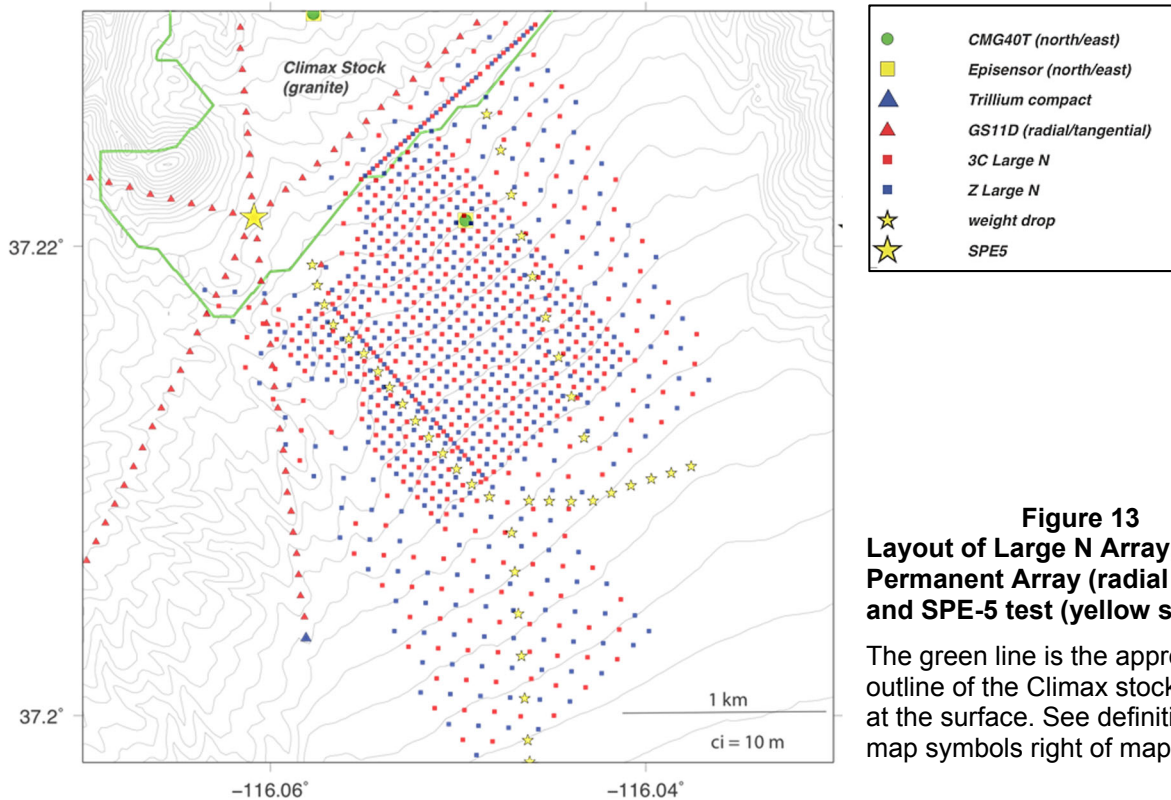


Figure 13
Layout of Large N Array, Permanent Array (radial lines), and SPE-5 test (yellow star)

The green line is the approximate outline of the Climax stock granite at the surface. See definitions of map symbols right of map.

6.2 Infrasound Data Collected for SPE-5 and SPE-6

Infrasound data were obtained by SNL for both the SPE-5 and SPE-6 tests, using the same array configuration for both, as described in the following paragraphs, and shown on Figure 14. Selected metadata for the sensors are provided in Appendix 8.

Eight infrasound arrays were deployed around SGZ prior to each test. Each array consisted of four Hyperion infrasound sensors with 100-Pascal full-scale range. The infrasound sensors were installed in a roughly triangular geometry with one sensor and the digitizer at the center and the other three sensors arranged azimuthally (~ 120 -degree increments) around the center element at a distance of about 30 m. Some sensors had four 15-m lengths of porous hoses and others had high frequency shrouds, for wind noise reduction. One sensor at each of the four arrays within 1 km of SGZ was seismically decoupled to reduce the effect of acceleration-induced signals. Four arrays were installed azimuthally around the explosives pad approximately 0.25 km from SGZ, and were at different elevations due to topography constraints. Three of the remaining arrays were located at 1, 2, and 5 km, respectively, linearly south-southeast of ground zero, and one additional array was installed 1 km east of ground zero. The data were recorded using Ref Tek 130 digitizers sampling at 200 Hz. Each station telemetered data in real time to the SNL trailer at the command center, located approximately 365 m southeast of SGZ. From there, it was transferred to the database at UNR in near real time.

For the SPE-6 test, an additional Hyperion sensor with a full-scale range of approximately 10 kilopascals was installed at the close arrays to mitigate the possibility of signal clipping. Also for SPE-6, one 6-element temporary ground infrasound array was deployed 3 km southeast of the SGZ to support an attempt at recording airborne infrasound. Sensor/digitizer combinations were a mixture of analog Hyperion sensors with RT-130 loggers, digital Hyperion sensors, and ultralight digital Hyperion sensors. One sensor failed to record data, giving a total of five active stations during the test. The airborne infrasound sensor was lofted using an octocopter to an elevation of 510 m above ground level. Results from this sensor are presently ambiguous due to poor signal recovery at low frequencies.

6.3 Weather Data Collected for SPE-5 and SPE-6

Weather data were collected for the SPE-5 and SPE-6 tests to provide information needed for analysis of surface acoustic measurements such as infrasound. Weather data for both tests were collected from a station in the network of weather stations managed by the NNSS Weather Forecast Air Resources Laboratory/Special Operations and Research Division. This network is known as the SORD/NNSS Weather Mesonet, and consists of 22 stations located all across the NNSS. The SPE-5 and SPE-6 data provided are from station M48/A10AA, a 10-m-tall tower located approximately 4 km south-southeast of the SPE test bed (Figure 15). Wind observations were taken for collection of 3-second averaged data; wind and other weather observations, including temperature, humidity, atmospheric pressure, and solar radiation, were also taken to provide 15-minute averaged data.

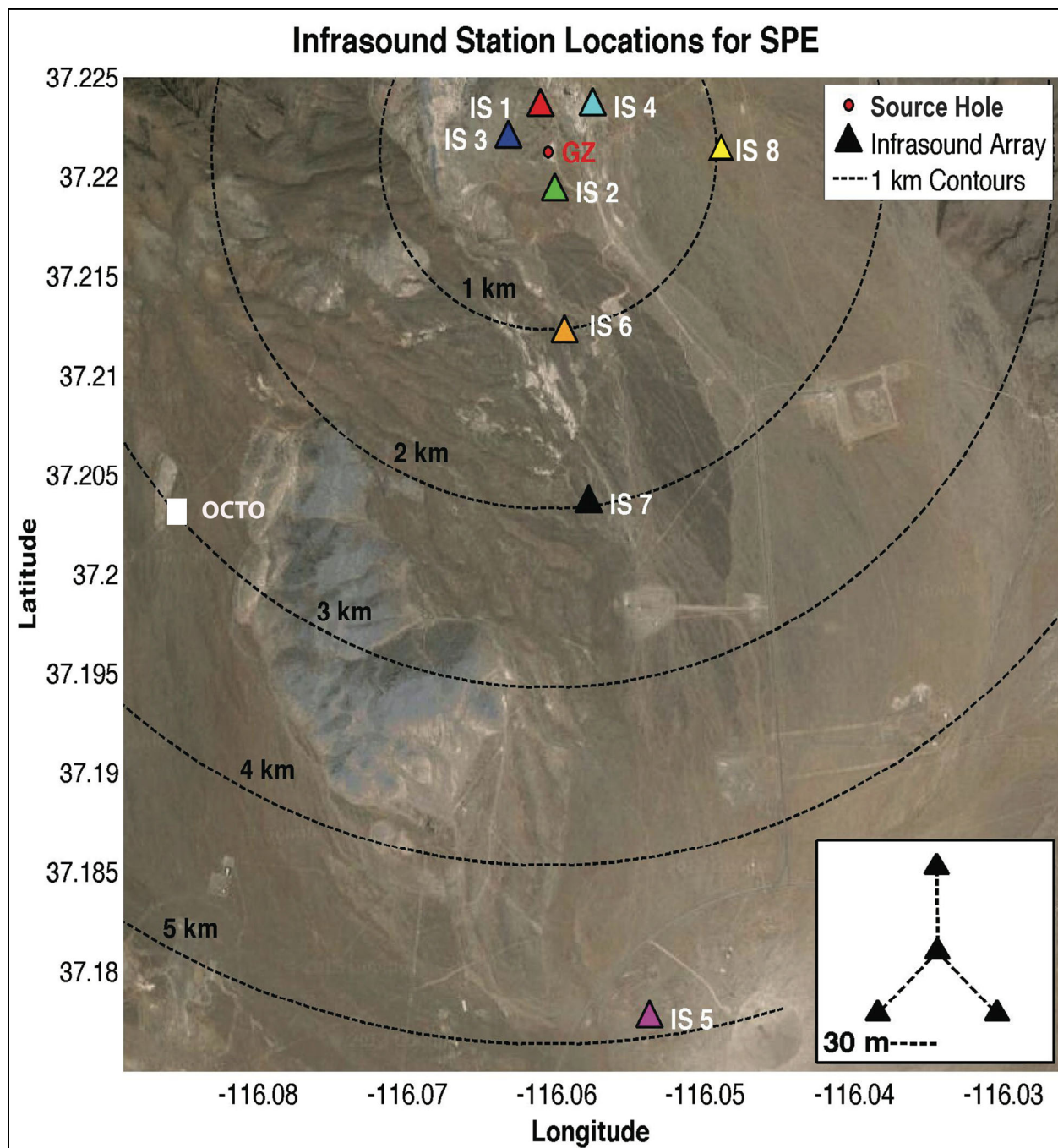


Figure 14
Map Showing Infrasound Array Locations (triangles) around Surface Ground Zero (red) for SPE-5 and SPE-6
 Dashed lines are 1-km contours from SGZ. Inset shows an example of the sensor geometry at each array.

In addition to the weather collected on the 10-m towers, SORD also collected data for the upper air using a radiosonde (balloon) for both SPE-5 and SPE-6. Measurements were taken by the radiosonde every 1 second and reported every 2 seconds. Parameters recorded by the radiosonde included wind speed and direction, temperature, humidity, pressure, and location.

Additional weather data were collected for SPE-6 from a temporary 2.5-m tall weather tower located approximately 300 m southeast of the test bed.

Detailed information about the weather data collection methodology for the tests is provided in Attachments 3 and 4.



Figure 15
Google Earth Image Showing the Location of NOAA SORD 10AA Meteorological Tower (south) and the Lidar (center; see next section) in Relation to the SPE-6 Test Location (north)

6.4 Windcube Lidar Data Collected for SPE-6

In addition to collection of wind data by conventional meteorological methods, wind data for SPE-6 were also collected using the “Windcube” vertically profiling, remote sensing instrument (Wharton 2018; provided as Attachment 5). The Windcube collects data through use of pulsed Light Detection and Ranging (Lidar) technology, creating a “virtual” meteorological tower whereby the characteristics of the wind in the lower part of the planetary boundary layer are sampled.

The underlying principle of pulsed Lidar measurements of wind is the use of optical heterodyne (coherent) detection, in which laser pulses are transmitted into the atmosphere and scattered off naturally occurring small dust particles or aerosols entrained in the ambient flow field. Radial velocity is proportional to Doppler frequency shift. In simple to moderately complex terrain, wind speed accuracy is 0.1 m/s, wind direction accuracy is 1.5 degrees. The nearest SORD meteorological tower was M48/A10AA, located approximately 1.5 km south of the Lidar location.

The Windcube was deployed on the ground 2.8 km southeast of the SPE-6 test location, and 160 m lower in elevation. (Figure 15). The instrument was programmed to measure from 40 to 260 m above ground level, at 20-m intervals. Data with high signal-to-noise ratios covered the range of 40 to 160 m; the paucity of naturally occurring aerosols in the area reduced data availability above 160 m. Data were averaged over 4-second and 5-minute intervals to create “.rtd” and “.sta” datasets. See Attachment 5 (Wharton 2018) for additional information about the datasets.

7 Data Acquisition and Corrections

7.1 Near Field

The data packages for SPE-5 and SPE-6 tests include the raw acceleration-time pairs recorded for all accelerometers. These data are in the form of time-acceleration pairs. The files are in comma space variables in ASCII text format. For all records, time is in seconds and acceleration is in g units.

See NSTec (2014, 2015, and 2017) for information about various corrections made on data sets obtained from borehole accelerometers for SPE-1, SPE-2, SPE-3, and SPE-4Prime. No corrections were made in the data sets obtained for SPE-5 and SPE-6.

7.2 Data Timing Issues Based on Extraction Method

Timing issues exist for the SPE-5 and SPE-6 tests depending on how the data are extracted from the database. If the full miniseed file from the database is used, there is a timing discrepancy for some stations for sacfiles extracted with mseed2sac versus those extracted with rdseed. The stations with timing issues are as follows:

- SPE-5
 - L3002: Detonation time in rdseed-extracted sacfiles is shifted ~0.25 s later relative to mseed2sac-extracted sacfiles
- SPE-6
 - L2013: Shot time in rdseed-extracted sacfiles is shifted ~0.15 s earlier relative to mseed2sac-extracted sacfiles

- L2014: Shot time in rdseed-extracted sacfiles is shifted ~ 0.1 s earlier relative to mseed2sac-extracted sacfiles
- L5009: Shot time in rdseed-extracted sacfiles is shifted ~ 0.75 s later relative to mseed2sac-extracted sacfiles
- L5010: Shot time in rdseed-extracted sacfiles is shifted ~ 0.8 s later relative to mseed2sac-extracted sacfiles

It is important to note, however, that this timing discrepancy **ONLY** occurs when the full miniseed file is used. If the data are extracted in any format from the database with a given time window (for instance, with trexcerpt or db2sac, etc.), the files are properly aligned in time.

7.3 Far Field Data Features of Note

A few features of the far field data should be noted:

- Difference in polarity between geophones and other instruments
- Data spikes (most obvious on data prior to shot); these were most likely due to issues with the cable power systems, although thunderstorms and lightning produce similar signals
- Possible cross-talk causing low amplitude signals on non-functioning channels

8 Post-Experiment Procedures

8.1 Aggregation, Merging, and Archiving of SPE-5 and SPE-6 Data

Post-experiment aggregation, merging, archiving, and distribution of SPE-5 and SPE-6 data were conducted at UNR by the technical members of the NSL. The process employed the Antelope Real Time and data processing software system from Boulder Real Time Technologies (Boulder, Colorado); the data processing suite from the Program for Array Seismic Studies of the Continental Lithosphere (PASSCAL); the CSS 3.0 database format; and Ubuntu-Linux-based servers at NSL data centers.

8.1.1 Data Aggregation

Data aggregation is the phase of acquiring raw metadata and time series data from project participants, reviewing the submissions, and conducting initial format conversions to standardize the media.

8.1.1.1 Metadata

Metadata were compiled prior to both tests and refined during the merging and archival process. For each sensor, NSL asked SPE participants to submit the following items:

- | | | |
|------------------------------------|-----------------------------|------------------------------|
| • Sensor make/model/type | • Sensor orientation | • Data logger bit weight |
| • Sensor sensitivity factor | • Sensor on-time, off-time | • Data logger channel number |
| • Sensor serial number | • Sensor | • Channel gain |
| • Sensor lat/long, decimal degrees | • Data logger make/model | • Channel sample rate |
| • Sensor frequency response file | • Data logger serial number | • Site name |
| • Sensor depth | • Data logger response file | • Site description |

SPE investigators submitted these initial metadata to NSL through electronic transfer of spreadsheets, figures, and scanned drawings, which were then made available to all participants via document archives on the NSL SPE data server.

8.1.1.2 Real-Time Telemetry and Waveform Aggregation Procedure

Real-time telemetry was implemented for most geophone and broadband seismic stations in place for SPE-5 and SPE-6. Real-time telemetry eliminates the need to visit sites for data acquisition, allows real-time station diagnostics, provides capability to access stations remotely for parameter checks and adjustments, and ensures an overall increase in the level of data quality and data return rates, over stand-alone portable stations. Telemetered sites for SPE-5 and SPE-6 included all stations except the “mesa” stations of Line 5, which are those located on the far western portion of the line (L5028, L5030, L5034, and L5036). Data from these four stations were collected as in SPE-1 (NSTec 2014).

Data for SPE-5 and SPE-6 were transmitted via microwave and fiber link to the NSL Reno data center. Data acquisition rates, transmitted in a compressed format to reduce through-put, averaged 11.5 gigabytes per day, with Broadband channels transmitting at 250 samples per second (sps) and geophone channels at 500 sps.

The NSL/SPE data storage and distribution server, established at the Nevada System of Higher Education’s UNLV Systems Computing Services (SCS) data center, provided access to all SPE-5 and SPE-6 data for project scientists. This included real-time data from the SPE array, NSL’s Southern Nevada (SN) regional network, and three Leo Brady network stations; and daily updates from NSL’s entire Northern Nevada (NN) network. The data server functions not only as a distribution point for time series and other spatial data collected by the project, but also as a hub for project communication, light data analysis, and temporary and long-term data storage.

8.1.1.3 Near-Field Waveform Data Aggregation

Near-field waveform data recorded on high-sample-rate multi-channel digitizers were recovered by project principal investigators and submitted to NSL by electronic file transfer. The data formats included (1) SAC, (2) four-byte integer, and (3) non-standard ASCII formats with accompanying scripts and other supporting metadata. For data received in SAC format, there was no required initial conversion procedure. Other formats required varying amounts of effort to convert to a common format.

8.1.2 Merging of Data Sets

Data merging is the phase of generating a valid CSS 3.0 metadata volume and modifying waveform file headers so that they will synchronize with the CSS 3.0 metadata format.

8.1.2.1 Metadata Merging

Upon receipt of metadata submissions, NSL staff distilled and standardized the information into ASCII files, one per station, in an open format that provides the input to Antelope’s *dbbuild* program. The *dbbuild* format tracks station information changes through time (i.e., station histories), and allows for (1) rapid regeneration of an entire CSS 3.0 database as corrections and additions are required, (2) cross-institution database maintainability, (3) version control and revision

history, and (4) a distributable and readable station record that can be useful even without proprietary tools.

8.1.2.1.1 Station Names and Descriptions

Upon submission, most metadata contained station descriptions and names that were meaningful only to the internal processes of the submitting institution. For the purpose of creating a single coherent volume, NSL technical staff created five-character station names that are compliant with the Standard for the Exchange of Earthquake Data (SEED). Where possible, the initial descriptions were preserved in the CSS 3.0 site descriptions to ensure new station names would be easily recognized by the various investigators.

8.1.2.1.2 Channel Codes

NSL staff created SEED-compliant channel codes describing the sample rate (band), instrument type, and orientation of each data channel. However, a collective decision was made by NSL and project investigators to leave the band code unchanged, even though per-instrument sample rates fluctuated from 100, to 500, to 250, to 200 sps. This was done to avoid generating confusion for the large party of investigators who were not yet familiar with the CSS 3.0 database, which is sometimes terse and detailed and can become lengthy when many configuration changes are made across a large array during the course of recording. In addition, it was widely held as important that channel codes be tied to certain sensor types to facilitate rapid association of a channel's code with the sensor's location relative to the source.

8.1.2.1.3 Precision of Sensor Location

Sensor locations were submitted to NSL in State Plane Coordinates (SPC, feet) and geographic coordinates (decimal degrees). The submitted geographic coordinate submissions were merged directly into the CSS 3.0 metadata where station lat/long values were required. The SPC station locations were used to calculate northing and easting offsets in feet from the location of the SPE-5 and SPE-6 source hole (station SP-01, northing 900077.22, easting 676640.6), and these offsets were then converted to meters using the conversion factor $1 \text{ m} = 3.28084 \text{ feet}$.

8.1.2.1.4 Precision of Sensor Orientation

For the most part, measured sensor orientations were not submitted to NSL, with the exception of the vertical angles (in the radial direction) of the near-field borehole accelerometers. The remainder were submitted as orientation codes (N=North, E=East, Z=Vertical, R=Radial, T=Tangential, L=lateral), and NSL calculated the azimuths of the sensor axes from the geographic coordinates. All azimuthal calculations were based on the assumption that the particular axis of the sensor was correctly aligned, e.g., that a radial orientation was indeed radial, and that the geographic coordinates are accurate to $<0.3 \text{ m}$. The estimated error on horizontal orientation is <5 degrees.

8.1.2.1.5 Sensor Sensitivities

Sensitivity values were submitted per sensor for the near-field borehole (stations BH) and surface accelerometers (stations DT and SL). Listed gauge sensitivities are measured, not nominal, as each accelerometer was tested at DTRA prior to deployment, with a tolerance of less than 2.4 percent. Far-field sensitivity values are nominal and were derived from manufacturer information sheets.

8.1.2.1.6 Gains

Pre-amplifier gains were also submitted per sensor for the near-field accelerometers. Accelerometer sensitivities varied by location in order to optimize response with respect to the estimated wavefield amplitudes. Where the gains were set larger (compared to predicted signal size) there will be a larger error due to increased amplification, which increases the signal-to-noise ratio. Gains for far-field RT130 seismic data were recovered from the logs generated from the raw RefTek to miniSEED by the data reduction process described above.

8.1.2.1.7 Calibration Factors

Calibration factors for near-field accelerometers in the CSS3.0 metadata were calculated from pre-amplifier gains (as above), a digitizer constant (bit weight), and sensitivity values (as above). All of these components are listed in the CSS3.0 *stage* table for the assembled near-field data sets. SL-* sensor calibration factors for SPE-5 and SPE-6 also include a 10 percent cable-attenuation factor. Alternative calibration factors, supplied by DTRA for the near-field channels in boreholes U-15n#2 through #21, are included with the assembled data sets in the file *calibrations.txt*. These calibration factors employ the raw vertical bit weight for each channel, and include base line averaging over 512 samples, but differ less than 2.4 percent from calculated values.

8.1.2.1.8 Instrument Response

Numerical (e.g., pole-and-zero) frequency responses are not available for the near-field accelerometers. Frequency response is expected to be essentially flat for frequencies of interest (Winningham, 2011) and is represented as constant in the metadata. Response data for the far-field sensors are redistributed from the versions supplied with the Antelope data processing system, except in the case of the infrasound sensors, and those responses were supplied in pole-zero format by SNL.

8.1.2.2 Merging Waveform Data

The procedure for merging waveforms included correcting waveform file headers to reflect the appropriate network-station-channel-location (*net_sta_chan_loc*) codes, and then using the Antelope *miniseed2db* or *sac2db* programs to generate a CSS 3.0 “wfdisc” table. The “wfdisc” table provides the mechanism to associate the time series data with the metadata set that describes the waveforms’ response, sensor parameters, etc.

For miniSEED files, header modification was done using the PASSCAL *fixhdr* program. By default, the station and channel names in miniSEED file headers are set to the data logger serial number and stream codes. The data logger and channel codes are then mapped to SEED *net_sta_chan_loc*. The *net_sta_chan_loc* code maps were derived from the site metadata for each data logger configuration.

For SAC files, the header modifications were done using the SAC analysis software, distributed through IRIS.

8.1.3 Data Archiving

Archiving is the phase of presenting final data products. It includes completion of quality control procedures and generation of final product formats.

8.1.3.1 Metadata Formats

8.1.3.1.1 CSS 3.0

The CSS 3.0 metadata format is an industry/community standard and is the format supported by the Antelope system. It is a readable and open database system that allows for schema extensions and therefore is flexible, scalable, and adaptable to non-standard sensor array configurations.

8.1.3.1.2 Dataless SEED

The dataless SEED format is an industry/community standard for metadata that includes station histories as well as sensor and data logger response information. It is distributed as a single file, and can be read and imported by a wide variety of programs and applications. The volume distributed by NSL was generated from CSS 3.0 metadata using the Antelope application *db2sd*. The Lat/Lon values in the dataless SEED volume were then corrected to six-decimal-place precision to honor location information submitted by project participants.

8.1.3.1.3 Dbbuild

The dbbuild format is an ASCII-text-based format that tracks site parameters throughout all epochs, or periods of distinct recording configurations. The *dbbuild*-based metadata comprise one text file per station, and while the files by themselves do not include sensor frequency response or data logger response, they do include sensor sensitivity factors. As input to the Antelope *dbbuild* program, which builds CSS 3.0 metadata (and in turn is converted to dataless SEED), the dbbuild-format files are the fundamental metadata records maintained by NSL for all SPE stations.

8.1.3.2 Time Series Formats

There are many time-series data formats, but for simplicity and for reusability of conversion and processing scripts, the technical staff at NSL resolved to create an archive based on either miniSEED or SAC formats. MiniSEED is the preferred format for data submissions to IRIS, and also the standard format for most Antelope-based programs and tools. SAC is the most widely known and used time-series format, and in some cases, such as with very high-sample-rate data (e.g., 1 million sps), it has capabilities that miniSEED does not.

8.1.3.3 Quality Control Measures

While the quality control of time-series data is left to SPE investigators (the near-field and far-field data committees), NSL was charged with creating a coherent database that is up to date and accurate with respect to the data submissions. Four quality control measures were used to verify the data products for SPE-5 and SPE-6, as described below.

8.1.3.3.1 Manual Inspection of dbbuild-Format Files

All metadata submissions are converted initially to the dbbuild-format. These files are reviewed for completeness and then checked in to the Concurrent Versioning System revision control system.

The use of revision control allows NSL to track completeness of array-wide edits, and is important for tracking metadata errors and corrections.

8.1.3.3.2 Output Warnings and Errors from dbbuild Program

The *dbbuild*-format files are used by the *dbbuild* program to generate the CSS 3.0 metadata. All runs of *dbbuild* are conducted with the use of verbose warnings, the standard output is captured in a log, and the log is reviewed after the run completes. This process allows NSL to find and fix inconsistencies, incomplete entries, and mistakes in the *dbbuild*-format metadata that are not caught during manual review.

8.1.3.3.3 Antelope dbverify Program

After generating a coherent CSS 3.0 metadata set that passes the first two levels of quality control, the data are examined for any additional problems using the Antelope *dbverify* program. This program performs consistency checks between database tables and is largely a tool for checking the validity of database schema and formats, rather than for finding omissions or typographic mistakes.

8.1.3.3.4 Output from dbjoin and dbfixids

The final step in each iterative generation of a CSS 3.0 metadata set is to synchronize the *wfdisc* table with the new channel identifiers, waveform identifiers, channel names, and calibration values that often change as metadata are refined and improved. This process not only corrects out-of-sync values in the *wfdisc* tables, but also warns when there are entries in the *wfdisc* table that do not join with the CSS 3.0 metadata. This reveals the case where waveforms have been submitted, but no metadata exist for the particular station. This situation can occur when new stations are added, or when data loggers are changed in the field without the updated information being submitted. Otherwise it can point up a case where NSL has missed a submission. This measure prompts staff to re-examine emails, contact field technicians, etc., to sort out why metadata are missing and contributes greatly to the completeness of the SPE archive.

9 Summary

This report coincides with the official release of near- and far-field seismic station, gauge, and diagnostic data for SPE-5 and SPE-6. It describes the location of data and supporting documents on the IRIS site. The report includes a description of the experiment, the types of data and instruments, corrections made to the accelerometer data, and post-experiment data processing. This data release includes separate sets of these data, including the raw data as well as the data reflecting the application of the corrections.

10 Acknowledgements

SPE would not have been possible without the support of many people from several organizations. The authors wish to express their gratitude to the U.S. Department of Energy, National Nuclear Security Administration, Defense Nuclear Nonproliferation Research and Development and the SPE working group, a multi-institutional and interdisciplinary group of scientists and engineers. Deepest appreciation is given to Robert White and Ryan Emmitt

(NSTec) for their tireless work on the seismic array, and to the NSL at UNR for their support of the seismic network and for data aggregation. Thanks to U.S. Geological Survey, IRIS, PASSCAL Instrument Center, and Lawrence Berkeley National Laboratory, for instrumentation partnership. This work was done by MSTs under Contract No. DE-NA0003624

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List of Appendices

- 1 Construction Data for Holes Drilled at the U-15n Site
- 2 Selected Metadata for SPE-5 Borehole Sensors
- 3 Instrument Metadata for SPE-5
- 4 Selected Metadata for SPE-6 Borehole Sensors
- 5 Instrument Metadata for SPE-6
- 6 Selected Metadata for SPE-5 Surface Stations
- 7 Selected Metadata for SPE-6 Surface Stations
- 8 Selected Metadata for SPE-6 Infrasound Sensors

All data users should verify they are using the full current metadata, including the SN network dataless SEED volume from IRIS for the far-field data (surface sensors), and the CSS3.0 metadata from the assembled data sets for the near-field sites (boreholes).

Appendix 1

Construction Data for Holes Drilled at the U-15n Site

APPENDIX 1 **Construction Data for Boreholes Drilled at the U15-n Site**

Hole Name	Spud Date	Completion Date	Geophysical Date	Gauge (Stem) Date	Azimuth Fm Source Hole (degrees)	Distance Fm Source Hole (ft)	Conductor Hole		Conductor Casing		Borehole		SPC (NAD27) ft		(NAVD27)		
							Diameter (in.)	Depth (ft)	Diameter (in.)	Depth (ft)	Diameter (in.)	Depth (ft)	Northing (ft)	Easting (ft)	TOC Elev (ft)	TOC Stickup (ft)	GS Elev (ft)
U-15n 36in	13-Aug-2010	17-Mar-2011	28-Mar-2011	na	na	na	48	7.5	42	7	36	199	900,077.28	676,640.62	5,002.42	0.55	"
"	24-Jan-2013	22-Mar-2013	30-Apr-2013	"	"	"	"	"	"	"	36	339	"	"	"	"	"
U-15n#1	24-Aug-2010	25-Aug-2010	21-Sep-2010	20-Apr-2011	026	33.1	12.25	7	10.75	6.5	8	190	900,107.01	676,655.17	5,002.60	0.40	5002.20
U-15n#2	15-Sep-2010	16-Sep-2010	21-Sep-2010	16-Apr-2011	266	32.1	12.25	10	10.75	9.5	8	190	900,075.27	676,608.54	5,002.81	0.60	5002.16
U-15n#3	20-Aug-2010	23-Aug-2010	21-Sep-2010	19-Apr-2011	145	32.6	12.25	10	10.75	9.5	8	190	900,050.67	676,659.48	5,002.26	0.50	5001.76
U-15n#4	18-Sep-2010	18-Sep-2010	22-Sep-2010	21-Apr-2011	206	65.2	12.25	10	10.75	9.5	8	192	900,018.48	676,612.53	5,002.34	0.70	5001.64
U-15n#5	17-Sep-2010	17-Sep-2010	21-Sep-2010	22-Apr-2011	085	66.1	12.25	10	10.75	9.5	8	192	900,082.71	676,706.51	5,001.94	0.50	5001.44
U-15n#6	26-Aug-2010	27-Aug-2010	20-Sep-2010	?	326	65.7	12.25	7	10.75	6.5	8	190	900,131.75	676,603.86	5,005.69	0.60	5005.09
SPE-1	Experiment Date: 3-May-2011						Experiment Depth: 180 ft						900,074.48	676,640.67	4,821.87	Center of Charge	
U-15n#1A	25-Aug-2011	27-Aug-2011	27-Aug-2011	30-Aug-2011	009	33.0	12.25	7	10.75	7	8	194	900,109.89	676,645.66	5,002.60	0.50	5002.10
SPE-2	Experiment Date: 25-Oct-2011						Experiment Depth: 150 ft						900,075.32	676,640.71	4,851.87	Center of Charge	
U-15n#7	18-Jan-2012	23-Jan-2012	23-Feb-2012	30-Mar-2012	266	65.4	12.25	10	10.75	7.5	8	305	900,072.50	676,575.36	5,003.19	0.32	5002.87
U-15n#8	8-Feb-2012	8-Feb-2012	23-Feb-2012	27-Mar-2012	170	32.7	12.25	10	13.375 /10.75	10	8	305	900,045.12	676,646.50	5,000.66	-0.93	5001.59
U-15n#9	24-Jan-2012	25-Jan-2012	23-Feb-2012	29-Mar-2012	026	65.5	12.25	10	13.375 /10.75	7.4	8	305	900,136.27	676,669.01	5,001.23	-0.77	5002.00
U-15n#11	30-Jan-2012	1-Feb-2012	23-Feb-2012	28-Mar-2012	026	167.9	12.25	10	13.375 /10.75	6.5	8	305	900,228.67	676,713.30	5,002.42	-1.06	5003.48
SPE-3	Experiment Date: 24-Jul-2012						Experiment Depth: 150 ft						900,075.32	676,640.71	4,851.87	Center of Charge	
U-15n#14	16-Apr-2013	18-Apr-2013	30-Apr-2013	31-May-2013	075	65.6	20	10	13.375	9	10	345	900,094.57	676,704.50	5,002.33	0.76	5001.57
U-15n#15	8-Apr-2013	11-Apr-2013	1-May-2013	15-May-2013	215	65.6	20	10	13.375	9	10	345	900,023.71	676,603.59	5,001.26	-0.49	5001.75
U-15n#16	23-Apr-2013	25-Apr-2013	2-May-2013	17-May-2013	000	65.6	20	8	13.375	4.5	10	345	900,143.26	676,641.16	5,002.34	-0.61	5002.95
U-15n#17	19-Apr-2013	23-Apr-2013	30-Apr-2013	23-May-2013	075	111.5	20	7	13.375	5	10	345	900,107.45	676,749.32	4,997.06	-0.70	4997.76
U-15n#18	12-Apr-2013	15-Apr-2013	1-May-2013	29-May-2013	215	111.5	20	9.5	13.375	8.5	10	345	899,985.74	676,576.57	5,002.07	0.59	5001.48
U-15n#19	26-Apr-2013	29-Apr-2013	2-May-2013	21-May-2013	000	111.5	20	6.5	13.375	5	10	345	900,189.01	676,640.69	5,005.95	0.67	5005.28
U-15n#20	27-Aug-2014	27-Aug-2014	27-Aug-2014	28-Aug-2014	329	16.5	12	4	8	3.6	6.5	38	900,091.50	676,632.18	na	na	5001.70
SPE-4 Prime	Experiment Date: 21-May-2015						Experiment Depth: 286.1 ft bgs						900,073.09	676,639.42	4,715.77	Center of Charge	
U-15n#21	28-Oct-2015	3-Nov-2015	4-Nov-2015	19-Jan-2016	329	32.8	12.25	11	10.75	8	10	137	900,105.49	676,623.87	5,003.61	1.39	5002.22
SPE-5	Experiment Date: 26-April-2016						Experiment Depth: 251.0 ft bgs						900,073.81	676,639.67	4,751.39	Center of Charge	
U-15n#23	29-Jun-2016	30-Jun-2016	2-Aug-2016	18-Aug-2016	018	165.6	16	4.55	10.75	4.55	10	114.51	900,234.88	676,691.38	5,003.60	-0.30	5003.9
U-15n#24	5-Jul-2016	6-Jul-2016	3-Aug-2016	16-Aug-2016	353	97.3	16	4.40	10.75	4.40	10	115.6	900,173.74	676,628.04	5,005.41	0.00	5005.4
U-15n#25	11-Jul-2016	12-Jul-2016	2-Aug-2016	17-Aug-2016	033	64.6	16	5.00	10.75	5.00	10	99.2	900,131.44	676,675.81	5,002.01	0.00	5002.0
U-15n#26	13-Jul-2016	14-Jul-2016	3-Aug-2016	15-Aug-2016	234	100.1	16	4.85	10.75	4.85	10	115.29	900,017.97	676,559.95	5,001.45	-0.45	5001.9
SPE-6	Experiment Date: 12-October-16						Experiment Depth: 103.1 ft bTOC						900,076.40	676,640.47	4,899.41	Center of Charge	

NOTES

Azimuth and distance from source hole refers to surface locations.

Elev = elevation

GS - ground surface

ft = feet

NAD27 = North American Datum of 1927

NGVD29 = National Geodetic Vertical Datum of 1929

SPC = State Plane Coordinate system (Central Nevada, Zone 2702)

TOC Stickup = Top of Casing (positive values are above ground surface)

() = Depths for angled boreholes measured along inclined borehole axis, are not true vertical depths

? = Unknown

Appendix 2

Selected Metadata for SPE-5 Borehole Sensors

Appendix 2
Selected Metadata for SPE-5 Borehole Sensors

SPE Borehole Station	Measurement Number (bh-c-o)	Instrument ID	Gauge Type	Serial Number	edepth ^b km	Northing	Easting	Elevation	Latitude	Longitude	Elevation
						SPC NAD27 ft		NGVD29 ft	GEO NAD83 dec deg		NAVD88 m
						NSTec Survey & Colog Deviation ^c			USACE Corpscon6 Conversion ^d		
BH-02	2-1-R	68	EGE73A	M080WW	0.0549	900,076.4	676,614.2	4,822.47	37.22119	116.06096	1,470.9
	2-1-T	69	7264	B18901							
	2-1-L	70	7264	B18905							
	2-3-R	73	EGE73A	Q06472	0.0152	900,075.8	676,609.5	4,952.47	37.22119	116.06097	1,510.5
	2-3-T	74	7264	P10784							
	2-3-L	75	7264	P10843							
BH-03	3-3-R	96	EGE-73A	Q06474	0.0152	900,051.1	676,659.5	4,952.47	37.22112	116.06080	1,510.5
	3-3-T	97	7264C	P10780							
	3-3-L	98	7264C	P10853							
BH-04	4-3-R	124	7264C	P10778	0.0152	900,018.1	676,612.7	4,952.47	37.22103	116.06096	1,510.5
	4-3-T	125	EGE-73A	R06402							
	4-3-L	126	EGE-73A	R06403							
BH-05	5-2-R	143	7264B	B44441	0.0457	900,083.6	676,706.5	4,852.47	37.22121	116.06064	1,480.0
	5-3-R	146	7264C	P10777	0.0152	900,083.1	676,706.6	4,952.47	37.22121	116.06064	1,510.5
	5-3-T	147	EGE-73A	R06401							
	5-3-L	148	EGE-73A	R06396							
BH-06	6-1-R	169	7264B	B17978	0.0549	900,131.2	676,604.9	4,822.47	37.22134	116.06099	1,470.9
	6-1-T	170	EGE-73A	M06119							
	6-2-R	171	7264B	B17999	0.0457	900,131.4	676,604.7	4,852.47	37.22134	116.06099	1,480.0
	6-2-T	172	EGE-73A	M06112							
	6-2-L	173	EGE-73A	M06116	0.0152	900,131.7	676,604.0	4,952.47	37.22134	116.06099	1,510.5
	6-3-R	174	EGE-73A	M06113							
	6-3-T	175	EGE-73A	M06072							
	6-3-L	176	EGE-73A	M06073							
BH-07	7-1-R	185	7264G	10443	0.0549	900,073.1	676,576.1	4,822.47	37.22118	116.06109	1,470.9
	7-1-T	186	7264C	P11309							
	7-1-L	187	7264C	P10849							
	7-2-R	188	7264G	11230	0.0457	900,072.2	676,577.6	4,852.47	37.22118	116.06108	1,480.0
	7-2-T	189	7264C	P10852							
	7-2-L	189	7264C	P11317							
	7-3-R	190	7264C	P11315	0.0152	900,072.6	676,576.0	4,952.47	37.22118	116.06109	1,510.5
	7-3-T	191	7264B	B19917							
	7-3-L	124	7264C	P11302							

Appendix 2
Selected Metadata for SPE-5 Borehole Sensors

SPE Borehole Station	Measurement Number (bh-c-o)	Instrument ID	Gauge Type	Serial Number	edepth ^b km	Northing	Easting	Elevation	Latitude	Longitude	Elevation
						SPC NAD27 ft		NGVD29 ft	GEO NAD83 dec deg		NAVD88 m
						NSTec Survey & Colog Deviation ^c			USACE Corpscon6 Conversion ^d		
BH-08	8-1-T	202	7264G	11021	0.0549	900,045.4	676,649.1	4,822.47	37.22111	116.06084	1,470.9
	8-1-L	203	7264G	10495							
	8-2-R	204	EGE-73A	Z05810	0.0457	900,045.4	676,647.6	4,852.47	37.22111	116.06084	1,480.0
	8-2-T	205	7264G	10450							
	8-2-L	205	7264G	10492	0.0152	900,045.4	676,646.3	4,952.47	37.22111	116.06085	1,510.5
	8-3-R		7264C	P11316							
	8-3-T		7264C	P11323							
	8-3-L	206	7264C	P11312							
BH-09	9-1-R	216	7264G	10488	0.0549	900,135.4	676,670.2	4,822.47	37.22135	116.06076	1,470.9
	9-1-T	217	7264C	P10846							
	9-1-L	218	7264G	10444							
	9-2-R	219	7264G	10478	0.0457	900,135.9	676,670.0	4,852.47	37.22136	116.06077	1,480.0
	9-2-T	220	7264C	P10790							
	9-2-L	221	7264C	P11305							
	9-3-R	222	7264G	10471	0.0366	900,136.2	676,669.7	4,882.47	37.22136	116.06077	1,489.2
	9-3-T	223	7264C	P11304							
	9-3-L	224	7264C	P11307							
	9-4-R	225	7264G	11186	0.0274	900,136.1	676,669.4	4,912.47	37.22136	116.06077	1,498.3
	9-4-T	226	7264C	P11320							
	9-4-L	227	7264B	B20517							
	9-5-R	228	7264C	P11310	0.0152	900,136.2	676,669.1	4,952.47	37.22136	116.06077	1,510.5
	9-5-T	229	7264C	P11311							
	9-5-L	230	7264C	P11240							
BH-11	11-1-R	247	7264C	P10851	0.0549	900,227.2	676,716.7	4,822.47	37.22160	116.06060	1,470.9
	11-1-T	248	7264C	P11313							
	11-1-L	249	7264C	P10848							
	11-2-R	250	7264B	B20516	0.0457	900,227.5	676,716.2	4,852.47	37.22161	116.06060	1,480.0
	11-2-L	251	7264C	P11308							
	11-3-R	252	7264C	P11314	0.0152	900,228.3	676,714.3	4,952.47	37.22161	116.06061	1,510.5
	11-3-T	253	7264C	P11321							

Appendix 2
Selected Metadata for SPE-5 Borehole Sensors

SPE Borehole Station	Measurement Number (bh-c-o)	Instrument ID	Gauge Type	Serial Number	edepth ^b km	Northing	Easting	Elevation	Latitude	Longitude	Elevation
						SPC NAD27 ft		NGVD29 ft	GEO NAD83 dec deg		NAVD88 m
						NSTec Survey & Colog Deviation ^c			USACE Corpscon6 Conversion ^d		
BH-14	14-1-L	264	7264C	P11565	0.0991	900,088.8	676,710.7	4,676.75	37.22127	116.05975	1426.5
	14-1-R	261	7264C	P11563							
	14-1-R1	262	EGCSDO	A012427							
	14-1-T	263	7264C	P11564							
	14-2-L	268	7264C	P11586	0.0841	900,090.7	676,709.8	4,725.91	37.22128	116.05976	1441.5
	14-2-R	265	7264G	10780							
	14-2-R1	266	EGCSDO	N02810							
	14-2-T	267	7264C	P11566							
BH-15	15-1-L	272	7264C	P11570	0.0991	900,016.3	676,604.2	4,676.95	37.22108	116.06012	1426.6
	15-1-R	269	7264C	P11568							
	15-1-R1	270	EGCSDO	P03340							
	15-1-T	271	7264C	P11569							
	15-2-L	276	7264C	P11572	0.0841	900,017.7	676,604.2	4,726.12	37.22108	116.06012	1441.5
	15-2-R	273	7264G	11053							
	15-2-R1	274	EGCSDO	R5233							
	15-2-T	275	7264C	P11571							
BH-16	16-1-R		7264C	P11573	0.0991	900,131.0	676,637.5	4,678.35	37.22139	116.06001	1427.0
	16-1-R1	277	EGCSDO	S98034							
	16-1-T	278	7264C	P11574							
	16-2-L	283	7264C	P11577	0.0841	900,134.8	676,638.2	4,727.40	37.22140	116.06000	1441.9
	16-2-R	280	7264G	11067							
	16-2-R1	281	EGCSDO	S98037							
	16-2-T	282	7264C	P11576							
BH-17	17-1-L		EGE-73A	M06029	0.0991	900,103.5	676,745.7	4,672.91	37.22131	116.05963	1425.3
	17-1-R	284	EGE-73A	M06025							
	17-1-R1	285	7264C	P11578							
	17-1-T	286	EGE-73A	M06028							
	17-2-L	291	EGE-73A	M06035	0.0841	900,104.9	676,746.5	4,722.08	37.22132	116.05963	1440.3
	17-2-R	288	7264C	P11579							
	17-2-T	290	EGE-73A	M06031							

Appendix 2
Selected Metadata for SPE-5 Borehole Sensors

SPE Borehole Station	Measurement Number (bh-c-o)	Instrument ID	Gauge Type	Serial Number	edepth ^b km	Northing	Easting	Elevation	Latitude	Longitude	Elevation
						SPC NAD27 ft		NGVD29 ft	GEO NAD83 dec deg		NAVD88 m
						NSTec Survey & Colog Deviation ^c			USACE Corpscon6 Conversion ^d		
BH-18	18-1-L	294	EGE-73A	Q06426	0.0991	899,983.5	676,571.3	4,676.60	37.22099	116.06024	1426.5
	18-1-R	292	7264C	P12036							
	18-1-T	293	EGE-73A	M06037							
	18-2-L	297	EGE-73A	Q06432	0.0928	899,983.7	676,571.6	4,697.20	37.22099	116.06024	1432.7
	18-2-R	295	7264C	P11582							
	18-2-T	296	EGE-73A	Q06431							
	18-3-L	300	EGE-73A	Q06439	0.0841	899,983.8	676,572.0	4,725.79	37.22099	116.06023	1441.4
	18-3-R	298	7264C	P11590							
	18-3-T	299	EGE-73A	Q06438							
	18-4-L	303	EGE-73A	Q06443	0.0765	899,984.0	676,572.2	4,750.59	37.22099	116.06023	1449.0
	18-4-R	301	7264C	P11591							
	18-4-T	302	EGE-73A	Q06440							
	18-5-L	306	EGE-73A	Q06456	0.0690	899,984.2	676,572.4	4,775.08	37.22099	116.06023	1456.5
	18-5-R	304	7264C	P11593							
	18-5-T	305	EGE-73A	Q06444							
BH-19	19-1-L	309	EGE-73A	X060CC	0.0991	900,191.8	676,645.3	4,680.41	37.22156	116.05998	1427.6
	19-1-R	307	7264C	P11594							
	19-1-T	308	EGE-73A	Q06461							
	19-2-L	312	EGE-73A	M06004	0.0928	900,191.8	676,644.9	4,701.00	37.22156	116.05998	1433.9
	19-2-R	310	7264C	P11595							
	19-2-T	311	EGE-73A	M06003							
	19-3-L	315	EGE-73A	M06010	0.0841	900,191.8	676,644.2	4,729.59	37.22156	116.05998	1442.6
	19-3-R	313	7264C	P12032							
	19-3-T	314	EGE-73A	M06006							
	19-4-L	318	EGE-73A	M06023	0.0765	900,191.5	676,644.0	4,754.38	37.22156	116.05998	1450.2
	19-4-R	316	7264C	P12033							
	19-4-T	317	EGE-73A	M06015							
	19-5-R	319	7264C	P12034	0.0690	900,191.3	676,643.6	4,778.87	37.22156	116.05998	1457.6
	19-5-T	320	EGE-73A	X060CD							
BH-20	20-1-L	337	64C-0050	A142909	0.0031	900,091.7	676,631.8	4,969.38	37.22123	116.06090	1515.7
	20-2-L	338	64C-0050	A142908	0.0021	900,091.6	676,632.0	4,979.18	37.22123	116.06090	1518.7
	20-3-L	339	64C-0050	A142906	0.0012	900,091.6	676,632.1	4,989.08	37.22123	116.06090	1521.7

Appendix 2
Selected Metadata for SPE-5 Borehole Sensors

SPE Borehole Station	Measurement Number (bh-c-o)	Instrument ID	Gauge Type	Serial Number	edepth ^b km	Northing	Easting	Elevation	Latitude	Longitude	Elevation
						SPC NAD27 ft		NGVD29 ft	GEO NAD83 dec deg		NAVD88 m
						NSTec Survey & Colog Deviation ^c			USACE Corpscon6 Conversion ^d		
BH-21	21-1L-1		64C-200	A128599	0.0377	900,100.9	676,625.1	4,878.68	37.22126	116.06092	1488.0
	21-1L-2		64C-200	A128602							
	21-2L-1		64C-100	A130317	0.0257	900,103.7	676,624.5	4,917.92	37.22127	116.06092	1500.0
	21-2L-2		64C-100	A130605							
	21-3L-1		64C-100	A130602	0.0137	900,105.4	676,623.9	4,957.24	37.22127	116.06092	1512.0
	21-3L-2		64C-100	A130641							
	21-4L-1		64C-0050	A131709	0.0057	900,105.4	676,623.9	4,983.47	37.22127	116.06092	1520.0
	21-4L-2		64C-0050	A131692							

NOTES

- a. See Appendix 3 for key to instruments.
- b. Depth in kilometers at which the instrument is positioned, relative to the ground surface elevation at the borehole collar.
- c. State Plane Coordinates at sensor location based on the borehole collar location, as surveyed by NSTec, corrected for borehole deviation, along borehole path, as measured by IDS Colog Group.
- d. Conversion of NSTec State Plane coordinates to latitude/longitude using USACE "Corpscon6" application.

ABBREVIATIONS

SPC
NAD27
ft
NGVD29
NSTec
GEO
NAD83
NAVD88
m
USACE

Appendix 3

Instrument Metadata for SPE-5

Appendix 3
Instrument Metadata for SPE-5

Instrument ID	Instrument Name	Instrument Code	Frequency Band	Sample Rate (samples/second)	Response Type
68	EGE-73A Accelerometer 5000g/DTRA Datalogger	ege73a	Broad-band	500000	Acceleration
69	7264B Accelerometer 2000g/DTRA Datalogger	e7264b	Broad-band	500000	Acceleration
70	7264B Accelerometer 2000g/DTRA Datalogger	e7264b	Broad-band	500000	Acceleration
71	7264B Accelerometer 2000g/DTRA Datalogger	e7264b	Broad-band	500000	Acceleration
72	7264B Accelerometer 2000g/DTRA Datalogger	e7264b	Broad-band	500000	Acceleration
73	EGE-73A Accelerometer 5000g/DTRA Datalogger	ege73a	Broad-band	500000	Acceleration
74	7264C Accelerometer 500g/DTRA Datalogger	e7264c	Broad-band	500000	Acceleration
75	7264C Accelerometer 500g/DTRA Datalogger	e7264c	Broad-band	500000	Acceleration
76	EGE-73A Accelerometer 5000g/DTRA Datalogger	ege73a	Broad-band	1000000	Acceleration
77	7264B Accelerometer 2000g/DTRA Datalogger	e7264b	Broad-band	1000000	Acceleration
78	7264B Accelerometer 2000g/DTRA Datalogger	e7264b	Broad-band	1000000	Acceleration
79	EGE-73A Accelerometer 5000g/DTRA Datalogger	ege73a	Broad-band	1000000	Acceleration
80	7264C Accelerometer 500g/DTRA Datalogger	e7264c	Broad-band	1000000	Acceleration
81	7264C Accelerometer 500g/DTRA Datalogger	e7264c	Broad-band	1000000	Acceleration
82	EGE-73A Accelerometer 5000g/DTRA Datalogger	ege73a	Broad-band	1000000	Acceleration
83	7264B Accelerometer 2000g/DTRA Datalogger	e7264b	Broad-band	1000000	Acceleration
84	EGE-73A Accelerometer 5000g/DTRA Datalogger	ege73a	Broad-band	1000000	Acceleration
85	7264B Accelerometer 2000g/DTRA Datalogger	e7264b	Broad-band	1000000	Acceleration
86	7264B Accelerometer 2000g/DTRA Datalogger	e7264b	Broad-band	1000000	Acceleration
87	EGE-73A Accelerometer 5000g/DTRA Datalogger	ege73a	Broad-band	1000000	Acceleration
88	7264C Accelerometer 500g/DTRA Datalogger	e7264c	Broad-band	1000000	Acceleration
89	7264C Accelerometer 500g/DTRA Datalogger	e7264c	Broad-band	1000000	Acceleration
90	EGE-73A Accelerometer 5000g/DTRA Datalogger	ege73a	Broad-band	1000000	Acceleration
91	7264B Accelerometer 2000g/DTRA Datalogger	e7264b	Broad-band	1000000	Acceleration
92	7264B Accelerometer 2000g/DTRA Datalogger	e7264b	Broad-band	1000000	Acceleration
93	EGE-73A Accelerometer 5000g/DTRA Datalogger	ege73a	Broad-band	1000000	Acceleration
94	7264C Accelerometer 500g/DTRA Datalogger	e7264c	Broad-band	1000000	Acceleration
95	7264C Accelerometer 500g/DTRA Datalogger	e7264c	Broad-band	1000000	Acceleration
96	EGE-73A Accelerometer 5000g/DTRA Datalogger	ege73a	Broad-band	500000	Acceleration
97	7264C Accelerometer 500g/DTRA Datalogger	e7264c	Broad-band	500000	Acceleration
98	7264C Accelerometer 500g/DTRA Datalogger	e7264c	Broad-band	500000	Acceleration
99	EGE-73A Accelerometer 5000g/DTRA Datalogger	ege73a	Broad-band	1000000	Acceleration
100	7264C Accelerometer 500g/DTRA Datalogger	e7264c	Broad-band	1000000	Acceleration
101	7264C Accelerometer 500g/DTRA Datalogger	e7264c	Broad-band	1000000	Acceleration
102	7264B Accelerometer 2000g/DTRA Datalogger	e7264b	Broad-band	1000000	Acceleration
103	EGE-73A Accelerometer 5000g/DTRA Datalogger	ege73a	Broad-band	1000000	Acceleration
104	EGE-73A Accelerometer 5000g/DTRA Datalogger	ege73a	Broad-band	1000000	Acceleration
105	7264B Accelerometer 2000g/DTRA Datalogger	e7264b	Broad-band	1000000	Acceleration
106	EGE-73A Accelerometer 5000g/DTRA Datalogger	ege73a	Broad-band	1000000	Acceleration
107	EGE-73A Accelerometer 5000g/DTRA Datalogger	ege73a	Broad-band	1000000	Acceleration
108	7264C Accelerometer 500g/DTRA Datalogger	e7264c	Broad-band	1000000	Acceleration
109	EGE-73A Accelerometer 5000g/DTRA Datalogger	ege73a	Broad-band	1000000	Acceleration
110	EGE-73A Accelerometer 5000g/DTRA Datalogger	ege73a	Broad-band	1000000	Acceleration
111	7264B Accelerometer 2000g/DTRA Datalogger	e7264b	Broad-band	1000000	Acceleration
112	EGE-73A Accelerometer 5000g/DTRA Datalogger	ege73a	Broad-band	1000000	Acceleration
113	EGE-73A Accelerometer 5000g/DTRA Datalogger	ege73a	Broad-band	1000000	Acceleration
114	7264B Accelerometer 2000g/DTRA Datalogger	e7264b	Broad-band	1000000	Acceleration
115	EGE-73A Accelerometer 5000g/DTRA Datalogger	ege73a	Broad-band	1000000	Acceleration
116	EGE-73A Accelerometer 5000g/DTRA Datalogger	ege73a	Broad-band	1000000	Acceleration
117	7264C Accelerometer 500g/DTRA Datalogger	e7264c	Broad-band	1000000	Acceleration
118	EGE-73A Accelerometer 5000g/DTRA Datalogger	ege73a	Broad-band	1000000	Acceleration
119	EGE-73A Accelerometer 5000g/DTRA Datalogger	ege73a	Broad-band	1000000	Acceleration
120	7264B Accelerometer 2000g/DTRA Datalogger	e7264b	Broad-band	500000	Acceleration
121	7264B Accelerometer 2000g/DTRA Datalogger	e7264b	Broad-band	500000	Acceleration

Appendix 3

Instrument Metadata for SPE-5

[illegible]

[illegible]

Instrument Metadata for SPE-5

[illegible]

[illegible]

Appendix 3
Instrument Metadata for SPE-5

Instrument ID	Instrument Name	Instrument Code	Frequency Band	Sample Rate (samples/second)	Response Type
338	7264C Accelerometer 50g/DTRA Datalogger	e7264c	Broad-band	1000000	Acceleration
339	7264C Accelerometer 50g/DTRA Datalogger	e7264c	Broad-band	1000000	Acceleration
340	EGCS-D0-100g Accel/DTRA Datalogger	egcsd0	Broad-band	1000000	Acceleration
341	7264C Accelerometer 50g/DTRA Datalogger	e7264c	Broad-band	1000000	Acceleration
342	EGCS-D0-100g Accel/DTRA Datalogger	egcsd0	Broad-band	1000000	Acceleration
343	7264C Accelerometer 50g/DTRA Datalogger	e7264c	Broad-band	1000000	Acceleration
344	EGCS-D0-100g Accel/DTRA Datalogger	egcsd0	Broad-band	1000000	Acceleration
345	EGCS-D0-100g Accel/DTRA Datalogger	egcsd0	Broad-band	1000000	Acceleration
346	EGCS-D0-50g Accelerometer/DTRA Datalogger	egcsd0	Broad-band	1000000	Acceleration
347	EGCS-D0-50g Accelerometer/DTRA Datalogger	egcsd0	Broad-band	1000000	Acceleration
348	EGCS-D0-100g Accel/DTRA Datalogger	egcsd0	Broad-band	1000000	Acceleration
349	EGCS-D0-100g Accel/DTRA Datalogger	egcsd0	Broad-band	500000	Acceleration
350	7264C Accelerometer 50g/DTRA Datalogger	e7264c	Broad-band	1000000	Acceleration
351	EGCS-D0-100g Accel/DTRA Datalogger	egcsd0	Broad-band	1000000	Acceleration
352	EGCS-D0-100g Accel/DTRA Datalogger	egcsd0	Broad-band	500000	Acceleration
353	7264B Accelerometer 2000g/DTRA Datalogger	e7264b	Broad-band	500000	Acceleration
354	7264C Accelerometer 50g/DTRA Datalogger	e7264c	Broad-band	1000000	Acceleration
355	EGCS-D0-100g Accel/DTRA Datalogger	egcsd0	Broad-band	1000000	Acceleration
356	EGCS-D0-100g Accel/DTRA Datalogger	egcsd0	Broad-band	500000	Acceleration
357	7264C Accelerometer 50g/DTRA Datalogger	e7264c	Broad-band	1000000	Acceleration
358	EGCS-D0-100g Accel/DTRA Datalogger	egcsd0	Broad-band	1000000	Acceleration
359	EGCS-D0-50g Accelerometer/DTRA Datalogger	egcsd0	Broad-band	500000	Acceleration
360	7264C Accelerometer 50g/DTRA Datalogger	e7264c	Broad-band	1000000	Acceleration
361	EGCS-D0-50g Accelerometer/DTRA Datalogger	egcsd0	Broad-band	500000	Acceleration
362	7264C Accelerometer 50g/DTRA Datalogger	e7264c	Broad-band	1000000	Acceleration
363	EGCS-D0-50g Accelerometer/DTRA Datalogger	egcsd0	Broad-band	1000000	Acceleration
364	EGCS-D0-50g Accelerometer/DTRA Datalogger	egcsd0	Broad-band	500000	Acceleration
365	7264C Accelerometer 50g/DTRA Datalogger	e7264c	Broad-band	1000000	Acceleration
366	Gentex 3301 acoustic/Ensco Datalogger	gentex	Long-period	2048	Infrasound
367	PCB103B02 HP acoustic/Ensco Datalogger	PCB103	Long-period	2048	Infrasound
368	Geospace OMNI-2400 geophone/Ensco Datalogger	omni24	High frequency	2048	Velocity
369	Endevco 7264B-500/SNL Datalogger	endevc	Broad-band	4000	Acceleration
370	EGCS-D0-50g Accelerometer/DTRA Datalogger	egcsd0	Broad-band	500000	Acceleration
371	7264C Accelerometer 50g/DTRA Datalogger	e7264c	Broad-band	1000000	Acceleration
372	Endevco 7264B-500/DTRA Datalogger	endevc	Broad-band	500000	Acceleration
373	EGCS-D0-50g Accelerometer/DTRA Datalogger	egcsd0	Broad-band	500000	Acceleration
374	7264C Accelerometer 50g/DTRA Datalogger	e7264c	Broad-band	1000000	Acceleration
375	EGCS-D0-100g Accel/DTRA Datalogger	egcsd0	Broad-band	500000	Acceleration
376	7264C Accelerometer 50g/DTRA Datalogger	e7264c	Broad-band	1000000	Acceleration
377	7264B Accelerometer 2000g/DTRA Datalogger	e7264b	Broad-band	500000	Acceleration
378	EGCS-D0-50g Accelerometer/DTRA Datalogger	egcsd0	Broad-band	500000	Acceleration
379	7264C Accelerometer 50g/DTRA Datalogger	e7264c	Broad-band	1000000	Acceleration
380	EGCS-D0-100g Accel/DTRA Datalogger	egcsd0	Broad-band	500000	Acceleration
381	7264C Accelerometer 50g/DTRA Datalogger	e7264c	Broad-band	1000000	Acceleration
382	EGCS-D0-50g Accelerometer/DTRA Datalogger	egcsd0	Broad-band	500000	Acceleration
383	7264C Accelerometer 50g/DTRA Datalogger	e7264c	Broad-band	1000000	Acceleration
384	IML ST Infrasound/Reftek 130 Datalogger	iml_st	Long-period	500	Infrasound
385	Hyperion IFS3000 Infrasound/Geotech Smart24 DAS	hifs3k	Long-period	200	Infrasound
386	Geotech S-13 short-period seismometer/ping Tricom	s13	s	50	Velocity
387	Geotech S-13 short-period seismometer/cusp Tricom	s13	s	100	Velocity
388	Nanometrics Trillium 120 Compact/Reftek 130 Datalogger	trilli	Broad-band	200	Velocity
389	Geotech S-13 short-period seismometer/cusp UNVCO-2	s13	s	100	Velocity
390	Geotech S-13_GS-13 1 Hz seismometer/Reftek 130 Dat	s13	s	100	Velocity
391	Geotech S-13_GS-13 1 Hz seismometer/Reftek 130 Dat	s13	s	200	Velocity

Appendix 3
Instrument Metadata for SPE-5

Instrument ID	Instrument Name	Instrument Code	Frequency Band	Sample Rate (samples/second)	Response Type
392	IESE S21g-2.0/Reftek 130 Datalogger	s21g_2	High frequency	200	Velocity
393	Geotech S-13_GS-13 1 Hz seismometer/Quanterra 330	s13	s	100	Velocity
394	IESE S21g-2.0/Quanterra 330 Linear Phase Composite	s21g_2	High frequency	100	Velocity
395	Geotech S-13_GS-13 1 Hz seismometer/Quanterra 330	s13	s	200	Velocity
396	IESE S21g-2.0/Quanterra 330 Linear Phase Composite	s21g_2	High frequency	200	Velocity
397	Episensor 200 Hz 1.25 Volt per g/Reftek 130 Datalog	epi_1.	Broad-band	200	Acceleration
398	Hyperion IFS3000 Infrasound/Reftek 130 Datalogger	hifs3k	Long-period	25	Infrasound
399	Hyperion IFS3000 Infrasound/Reftek 130 Datalogger	hifs3k	Long-period	25	Infrasound
400	Hyperion IFS3000 Infrasound/Reftek 130 Datalogger	hifs3k	Long-period	100	Infrasound
401	Hyperion IFS3000 Infrasound/Reftek 130 Datalogger	hifs3k	Long-period	100	Infrasound
402	Terratech 50 Hz/IDS strong mo, 16-bit, no fir file	terrat	Broad-band	100	Acceleration
403	Mark Products L4C/Reftek 72A-08 Datalogger	l4c	s	100	Velocity
404	Mark Products L4C/Reftek 72A-08 Datalogger	l4c	s	20	Velocity
405	KMI FBA23 50 Hz FS 2g/Reftek 72A-08 Datalogger	fba23_	Broad-band	100	Acceleration
406	Applied MEMS, 2.5 Volt per g/Reftek 130 Datalogger	mems_2	Broad-band	100	Acceleration
407	Mark Products L4C/Reftek 130 Datalogger	l4c	s	100	Velocity
408	Episensor 200 Hz 10 Volt per g/Reftek 130 Datalogg	epi_10	Broad-band	200	Acceleration
409	Mark Products L4C/Reftek 130 Datalogger	l4c	s	200	Velocity
410	Guralp CMG40T_30sec/Reftek 72A-08 Datalogger	cmg40t	Broad-band	100	Velocity
411	Guralp CMG40T_30sec/Reftek 72A-08 Datalogger	cmg40t	Broad-band	20	Velocity
412	Geotech S-13 short-period seismometer/Reftek 72A-0	s13	s	100	Velocity
413	Geotech S-13 short-period seismometer/Reftek 72A-0	s13	s	20	Velocity
414	Geotech S-13 short-period seismometer/Reftek 130 D	s13	s	100	Velocity
415	Terratech 50 Hz/Reftek 72A-08 Datalogger	terrat	Broad-band	100	Acceleration
416	Geotech S-13 short-period seismometer/Quanterra 33	s13	s	100	Velocity
417	Applied MEMS, 2.5 Volt per g/Quanterra 330 Linear	mems_2	Broad-band	200	Acceleration
418	Geotech S-13_GS-13 1 Hz seismometer/Reftek 72A-07	s13	s	100	Velocity
419	Nanometrics Trillium 120 Compact/Quanterra 330 Lin	trilli	Broad-band	100	Velocity
420	Episensor 200 Hz 10 Volt per g/Quanterra 330 Linea	epi_10	Broad-band	100	Acceleration
421	Terratech 50 Hz/Reftek 72A-08 Datalogger	terrat	Broad-band	100	Acceleration
422	Applied MEMS, 2.5 Volt per g/Reftek 72A-08 Datalog	mems_2	Broad-band	100	Acceleration
423	Episensor 200 Hz 10 Volt per g/Reftek 130 Datalogg	epi_10	Broad-band	100	Acceleration
424	Episensor 200 Hz 10 Volt per g/Quanterra 330 Linea	epi_10	Broad-band	200	Acceleration
425	Guralp CMG4/Reftek 72A-08 Datalogger	cmg4	Broad-band	100	Velocity
426	Guralp CMG4/Reftek 72A-08 Datalogger	cmg4	Broad-band	20	Velocity
427	Mark Products L4C/Reftek 72A-08 Datalogger	l4c	s	100	Velocity
428	Terratech 50 Hz/Reftek 72A-08 Datalogger	terra_	Broad-band	100	Acceleration
429	Mark Products L4C/Quanterra 330 Linear Phase Compo	l4c	s	100	Velocity
430	Geotech S-13 short-period seismometer/Reftek 72A-0	s13	s	100	Velocity
431	Geotech S-13 short-period seismometer/Reftek 72A-0	s13	s	20	Velocity
432	Geotech S-13_GS-13 1 Hz seismometer/Reftek 72A-08	s13	s	100	Velocity
433	Geotech S-13_GS-13 1 Hz seismometer/Reftek 72A-08	s13	s	20	Velocity
	PCB Piezotronics 3503A1020KG Triaxial MEMS High-G Shock Accelerometer				

Appendix 4

Selected Metadata for SPE-6 Borehole Sensors

Appendix 4
Selected Metadata for SPE-6 Borehole Sensors

SPE Borehole Station	Measurement Number (bh-c-o)	Gauge Type	Serial Number	edepth ^b km	Northing	Easting	Elevation	Latitude	Longitude	Elevation
					SPC NAD27 ft		NGVD29 ft	GEO NAD83 dec deg		NAVD88 m
					NSTec Survey & Colog Deviation ^c			USACE Corpscon6 Conversion ^d		
BH-20	20-1-L	64C-0050	A142909	0.0031	900,091.7	676,631.8	4,969.38	37.22123	116.06090	1515.7
	20-2-L	64C-0050	A142908	0.0021	900,091.6	676,632.0	4,979.18	37.22123	116.06090	1518.7
	20-3-L	64C-0050	A142906	0.0012	900,091.6	676,632.1	4,989.08	37.22123	116.06090	1521.7
BH-21	21-1L-1	64C-200	A128599	0.0377	900,100.9	676,625.1	4,878.68	37.22126	116.06092	1488.0
	21-1L-2	64C-200	A128602							
	21-2L-1	64C-100	A130317							
	21-2L-2	64C-100	A130605	0.0257	900,103.7	676,624.5	4,917.92	37.22127	116.06092	1500.0
	21-3L-1	64C-100	A130602							
	21-3L-2	64C-100	A130641							
	21-4L-1	64C-0050	A131709	0.0057	900,105.4	676,623.9	4,957.24	37.22127	116.06092	1512.0
	21-4L-2	64C-0050	A131692							
BH-23	23-1A-T	Endevco 7265-A	D17490	0.0317	900,233.7	676,692.9	4,898.38	37.22162	116.06068	1,494.0
	23-1B-T	Endevco 7265-A	D17491							
	23-1A-R	Endevco 7265-A	D17527							
	23-1B-R	Endevco 7265-A	D17537							
	23-1A-L	Endevco 7265-A	D17541							
BH-24	23-1B-L	Endevco 7265-A	D17560	0.031	900,173.2	676,627.9	4,900.86	37.22146	116.06091	1,494.8
	24-1A-T	Endevco 7264-B	B22566							
	24-1B-T	Endevco 7264-B	B22567							
	24-1A-R	Endevco 7264-B	B22568							
	24-1B-R	Endevco 7264-B	B22576							
	24-1A-L	Endevco 7264-B	B22579							
BH-25	24-1B-L	Endevco 7264-B	B22679	0.0273	900,131.5	676,678.4	4,910.94	37.22134	116.06074	1,497.9
	25-1A-T	Endevco 7264-D	17017							
	25-1B-T	Endevco 7264-D	17026							
	25-1A-R	Endevco 7264-D	17025							
	25-1B-R	Endevco 7264-D	16918							
	25-1A-L	Endevco 7264-D	17030							
	25-1B-L	Endevco 7264-D	17036							
	25-1-1T	PCB 3503A102KG	1323							
	25-1-1R	PCB 3503A102KG	1323							
	25-1-1L	PCB 3503A102KG	1323							
	25-1-2T	PCB 3503A102KG	1374							
	25-1-2R	PCB 3503A102KG	1374							
	25-1-2L	PCB 3503A102KG	1374							
	25-1-3T	PCB 3503A102KG	1379							
	25-1-3R	PCB 3503A102KG	1379							
	25-1-3L	PCB 3503A102KG	1379							
	25-1-4T	PCB 3503A102KG	1380							
	25-1-4R	PCB 3503A102KG	1380							
	25-1-4L	PCB 3503A102KG	1380							
BH-26	26-B1A-T	Endevco 7264-B	B22681	0.0320	900,010.6	676,562.1	4,896.91	37.22101	116.06114	1,493.6
	26-B1B-T	Endevco 7264-B	B22688							
	26-B1A-R	Endevco 7264-B	B22691							
	26-B1B-R	Endevco 7264-B	B22714							
	26-B1A-L	Endevco 7264-B	B22722							
	26-B1B-L	Endevco 7264-B	B22723							

NOTES

- See Appendix 3 for key to instruments.
- Depth in kilometers at which the instrument is positioned, relative to the ground surface elevation at the borehole collar.
- State Plane Coordinates at sensor location based on the borehole collar location, as surveyed by NSTec, corrected for borehole deviation, along borehole path, as measured by IDS Colog Group.
- Conversion of NSTec State Plane coordinates to latitude/longitude using USACE "Corpscon6" application.

ABBREVIATIONS

SPC	GEO	Geographical Coordinate System
NAD27	NAD83	North American Datum 1983
ft	NAVD88	North American Vertical Datum 1988
NGVD29	m	Meters
NSTec	USACE	U.S. Army Corps of Engineers

Appendix 5

Instrument Metadata for SPE-6

Appendix 5
Instrument Metadata for SPE-6

Instrument ID	Instrument Name	Instrument Code	Frequency Band	Sample Rate (samples/second)	Response Type
1	Chapparral 2.5 microphone/Reftek 130 Datalogger	chapar	Long-period	250	Infrasound
2	Nanometrics Trillium 120 Compact/Reftek 130 Datalogger	trilli	Broad-band	250	Velocity
3	Geospace GS-11D 380ohm/Reftek 130 Datalogger	gs11d	High frequency	500	Velocity
4	Geospace GS-11D 380ohm/Reftek 130 Datalogger	gs11d	High frequency	500	Velocity
5	Geospace GS-11D 380ohm/Reftek 130 Datalogger	gs11d	High frequency	250	Velocity
6	Geospace GS-11D 380ohm/Reftek 130 Datalogger	gs11d	High frequency	125	Velocity
7	IML ST Infrasound/Reftek 130 Datalogger	iml_st	Long-period	250	Infrasound
8	New Mexico Tech InfraNMT_xx/Reftek 130 Datalogger	infran	Long-period	250	Infrasound
9	Chapparral 2.5 microphone/Reftek 130 Datalogger	chapar	Long-period	500	Infrasound
10	Geospace GS-11D 380ohm/Reftek 130 Datalogger	gs11d	High frequency	125	Velocity
11	EMI BF6 magnetometer/Reftek 130 Datalogger	emi_bf	Broad-band	500	N
12	Geospace GS-11D 380ohm/Reftek 130 Datalogger	gs11d	High frequency	250	Velocity
13	Geospace GS-11D 380ohm/Reftek 130 Datalogger	gs11d	High frequency	100	Velocity
14	Episensor 200 Hz 1.25 Volt per g/Reftek 130 Datalogger	epi_1.	Broad-band	500	Acceleration
15	Eentec R1 Rotational Seismometer/Reftek 130 Datalogger	eentec	Broad-band	500	Velocity
16	Episensor 200 Hz 1.25 Volt per g/Reftek 130 Datalogger	epi_1.	Broad-band	250	Acceleration
17	Eentec R1 Rotational Seismometer/Reftek 130 Datalogger	eentec	Broad-band	250	Velocity
18	Guralp CMG40T_30sec/Reftek 130 Datalogger	cmg40t	Broad-band	500	Velocity
19	Guralp CMG40T_30sec/Reftek 130 Datalogger	cmg40t	Broad-band	500	Velocity
20	Guralp CMG40T_30sec/Reftek 130 Datalogger	cmg40t	Broad-band	250	Velocity
21	Guralp CMG40T_30sec/Reftek 130 Datalogger	cmg40t	Broad-band	250	Velocity
22	Guralp CMG40T_30sec/Reftek 130 Datalogger	cmg40t	Broad-band	125	Velocity
23	Guralp CMG40T_30sec/Reftek 130 Datalogger	cmg40t	Broad-band	100	Velocity
24	Guralp CMG40T_30sec/Reftek 130 Datalogger	cmg40t	Broad-band	125	Velocity
25	Nanometrics Trillium 120 Compact/Reftek 130 Datalogger	trilli	Broad-band	500	Velocity
26	Nanometrics Trillium 120 Compact/Reftek 130 Datalogger	trilli	Broad-band	100	Velocity
27	Nanometrics Trillium 120 Compact/Reftek 130 Datalogger	trilli	Broad-band	500	Velocity
28	Nanometrics Trillium 120 Compact/Reftek 130 Datalogger	trilli	Broad-band	100	Velocity

Appendix 5
Instrument Metadata for SPE-6

Instrument ID	Instrument Name	Instrument Code	Frequency Band	Sample Rate (samples/second)	Response Type
29	Nanometrics Trillium 120 Compact/Reftek 130 Datalo	trilli	Broad-band	250	Velocity
30	Episensor 200 Hz 1.25 Volt per g/Reftek 130 Datalo	epi_1.	Broad-band	500	Acceleration
31	Eentec R1 Rotational Seismometer/Reftek 130 Datalo	eentec	Broad-band	500	Velocity
32	Episensor 200 Hz 1.25 Volt per g/Reftek 130 Datalo	epi_1.	Broad-band	125	Acceleration
33	Eentec R1 Rotational Seismometer/Reftek 130 Datalo	eentec	Broad-band	125	Velocity
34	Chapparral 2.5 microphone/Reftek 130 Datalogger	chapar	Long-period	250	Infrasound
35	PMD SP400U3/Reftek 130 Datalogger	SP400U	Broad-band	250	Velocity
36	PMD SP400U3/Reftek 130 Datalogger	SP400U	Broad-band	250	Velocity
37	PMD SP400U3/Reftek 130 Datalogger	SP400U	Broad-band	250	Velocity
38	Episensor 200 Hz 1.25 Volt per g/Reftek 130 Datalo	epi_1.	Broad-band	250	Acceleration
39	EGE-73A Accelerometer 5000g/DTRA Datalogger	ege73a	Broad-band	1000000	Acceleration
40	7264B Accelerometer 2000g/DTRA Datalogger	e7264b	Broad-band	1000000	Acceleration
41	7264B Accelerometer 2000g/DTRA Datalogger	e7264b	Broad-band	1000000	Acceleration
42	EGE-73A Accelerometer 5000g/DTRA Datalogger	ege73a	Broad-band	1000000	Acceleration
43	7264C Accelerometer 500g/DTRA Datalogger	e7264c	Broad-band	1000000	Acceleration
44	7264C Accelerometer 500g/DTRA Datalogger	e7264c	Broad-band	1000000	Acceleration
45	7264B Accelerometer 2000g/DTRA Datalogger	e7264b	Broad-band	1000000	Acceleration
46	EGE-73A Accelerometer 5000g/DTRA Datalogger	ege73a	Broad-band	1000000	Acceleration
47	7264C Accelerometer 500g/DTRA Datalogger	e7264c	Broad-band	1000000	Acceleration
48	7264C Accelerometer 500g/DTRA Datalogger	e7264c	Broad-band	1000000	Acceleration
49	EGE-73A Accelerometer 5000g/DTRA Datalogger	ege73a	Broad-band	500000	Acceleration
50	7264C Accelerometer 500g/DTRA Datalogger	e7264c	Broad-band	500000	Acceleration
51	7264C Accelerometer 500g/DTRA Datalogger	e7264c	Broad-band	500000	Acceleration
52	EGE-73A Accelerometer 5000g/DTRA Datalogger	ege73a	Broad-band	1000000	Acceleration
53	7264B Accelerometer 2000g/DTRA Datalogger	e7264b	Broad-band	1000000	Acceleration
54	7264B Accelerometer 2000g/DTRA Datalogger	e7264b	Broad-band	1000000	Acceleration
55	EGE-73A Accelerometer 5000g/DTRA Datalogger	ege73a	Broad-band	1000000	Acceleration
56	7264B Accelerometer 2000g/DTRA Datalogger	e7264b	Broad-band	1000000	Acceleration

Appendix 5
Instrument Metadata for SPE-6

Instrument ID	Instrument Name	Instrument Code	Frequency Band	Sample Rate (samples/second)	Response Type
57	7264B Accelerometer 2000g/DTRA Datalogger	e7264b	Broad-band	1000000	Acceleration
58	EGE-73A Accelerometer 5000g/DTRA Datalogger	ege73a	Broad-band	1000000	Acceleration
59	7264C Accelerometer 500g/DTRA Datalogger	e7264c	Broad-band	1000000	Acceleration
60	7264C Accelerometer 500g/DTRA Datalogger	e7264c	Broad-band	1000000	Acceleration
61	EGE-73A Accelerometer 5000g/DTRA Datalogger	ege73a	Broad-band	1000000	Acceleration
62	EGE-73A Accelerometer 5000g/DTRA Datalogger	ege73a	Broad-band	1000000	Acceleration
63	7264B Accelerometer 2000g/DTRA Datalogger	e7264b	Broad-band	1000000	Acceleration
64	7264B Accelerometer 2000g/DTRA Datalogger	e7264b	Broad-band	1000000	Acceleration
65	EGE-73A Accelerometer 5000g/DTRA Datalogger	ege73a	Broad-band	1000000	Acceleration
66	7264C Accelerometer 500g/DTRA Datalogger	e7264c	Broad-band	1000000	Acceleration
67	7264C Accelerometer 500g/DTRA Datalogger	e7264c	Broad-band	1000000	Acceleration
68	EGE-73A Accelerometer 5000g/DTRA Datalogger	ege73a	Broad-band	500000	Acceleration
69	7264B Accelerometer 2000g/DTRA Datalogger	e7264b	Broad-band	500000	Acceleration
70	7264B Accelerometer 2000g/DTRA Datalogger	e7264b	Broad-band	500000	Acceleration
71	7264B Accelerometer 2000g/DTRA Datalogger	e7264b	Broad-band	500000	Acceleration
72	7264B Accelerometer 2000g/DTRA Datalogger	e7264b	Broad-band	500000	Acceleration
73	EGE-73A Accelerometer 5000g/DTRA Datalogger	ege73a	Broad-band	500000	Acceleration
74	7264C Accelerometer 500g/DTRA Datalogger	e7264c	Broad-band	500000	Acceleration
75	7264C Accelerometer 500g/DTRA Datalogger	e7264c	Broad-band	500000	Acceleration
76	EGE-73A Accelerometer 5000g/DTRA Datalogger	ege73a	Broad-band	1000000	Acceleration
77	7264B Accelerometer 2000g/DTRA Datalogger	e7264b	Broad-band	1000000	Acceleration
78	7264B Accelerometer 2000g/DTRA Datalogger	e7264b	Broad-band	1000000	Acceleration
79	EGE-73A Accelerometer 5000g/DTRA Datalogger	ege73a	Broad-band	1000000	Acceleration
80	7264C Accelerometer 500g/DTRA Datalogger	e7264c	Broad-band	1000000	Acceleration
81	7264C Accelerometer 500g/DTRA Datalogger	e7264c	Broad-band	1000000	Acceleration
82	EGE-73A Accelerometer 5000g/DTRA Datalogger	ege73a	Broad-band	1000000	Acceleration
83	7264B Accelerometer 2000g/DTRA Datalogger	e7264b	Broad-band	1000000	Acceleration
84	EGE-73A Accelerometer 5000g/DTRA Datalogger	ege73a	Broad-band	1000000	Acceleration

Appendix 5
Instrument Metadata for SPE-6

Instrument ID	Instrument Name	Instrument Code	Frequency Band	Sample Rate (samples/second)	Response Type
85	7264B Accelerometer 2000g/DTRA Datalogger	e7264b	Broad-band	1000000	Acceleration
86	7264B Accelerometer 2000g/DTRA Datalogger	e7264b	Broad-band	1000000	Acceleration
87	EGE-73A Accelerometer 5000g/DTRA Datalogger	ege73a	Broad-band	1000000	Acceleration
88	7264C Accelerometer 500g/DTRA Datalogger	e7264c	Broad-band	1000000	Acceleration
89	7264C Accelerometer 500g/DTRA Datalogger	e7264c	Broad-band	1000000	Acceleration
90	EGE-73A Accelerometer 5000g/DTRA Datalogger	ege73a	Broad-band	1000000	Acceleration
91	7264B Accelerometer 2000g/DTRA Datalogger	e7264b	Broad-band	1000000	Acceleration
92	7264B Accelerometer 2000g/DTRA Datalogger	e7264b	Broad-band	1000000	Acceleration
93	EGE-73A Accelerometer 5000g/DTRA Datalogger	ege73a	Broad-band	1000000	Acceleration
94	7264C Accelerometer 500g/DTRA Datalogger	e7264c	Broad-band	1000000	Acceleration
95	7264C Accelerometer 500g/DTRA Datalogger	e7264c	Broad-band	1000000	Acceleration
96	EGE-73A Accelerometer 5000g/DTRA Datalogger	ege73a	Broad-band	500000	Acceleration
97	7264C Accelerometer 500g/DTRA Datalogger	e7264c	Broad-band	500000	Acceleration
98	7264C Accelerometer 500g/DTRA Datalogger	e7264c	Broad-band	500000	Acceleration
99	EGE-73A Accelerometer 5000g/DTRA Datalogger	ege73a	Broad-band	1000000	Acceleration
100	7264C Accelerometer 500g/DTRA Datalogger	e7264c	Broad-band	1000000	Acceleration
101	7264C Accelerometer 500g/DTRA Datalogger	e7264c	Broad-band	1000000	Acceleration
102	7264B Accelerometer 2000g/DTRA Datalogger	e7264b	Broad-band	1000000	Acceleration
103	EGE-73A Accelerometer 5000g/DTRA Datalogger	ege73a	Broad-band	1000000	Acceleration
104	EGE-73A Accelerometer 5000g/DTRA Datalogger	ege73a	Broad-band	1000000	Acceleration
105	7264B Accelerometer 2000g/DTRA Datalogger	e7264b	Broad-band	1000000	Acceleration
106	EGE-73A Accelerometer 5000g/DTRA Datalogger	ege73a	Broad-band	1000000	Acceleration
107	EGE-73A Accelerometer 5000g/DTRA Datalogger	ege73a	Broad-band	1000000	Acceleration
108	7264C Accelerometer 500g/DTRA Datalogger	e7264c	Broad-band	1000000	Acceleration
109	EGE-73A Accelerometer 5000g/DTRA Datalogger	ege73a	Broad-band	1000000	Acceleration
110	EGE-73A Accelerometer 5000g/DTRA Datalogger	ege73a	Broad-band	1000000	Acceleration
111	7264B Accelerometer 2000g/DTRA Datalogger	e7264b	Broad-band	1000000	Acceleration
112	EGE-73A Accelerometer 5000g/DTRA Datalogger	ege73a	Broad-band	1000000	Acceleration

Appendix 5
Instrument Metadata for SPE-6

Instrument ID	Instrument Name	Instrument Code	Frequency Band	Sample Rate (samples/second)	Response Type
113	EGE-73A Accelerometer 5000g/DTRA Datalogger	ege73a	Broad-band	1000000	Acceleration
114	7264B Accelerometer 2000g/DTRA Datalogger	e7264b	Broad-band	1000000	Acceleration
115	EGE-73A Accelerometer 5000g/DTRA Datalogger	ege73a	Broad-band	1000000	Acceleration
116	EGE-73A Accelerometer 5000g/DTRA Datalogger	ege73a	Broad-band	1000000	Acceleration
117	7264C Accelerometer 500g/DTRA Datalogger	e7264c	Broad-band	1000000	Acceleration
118	EGE-73A Accelerometer 5000g/DTRA Datalogger	ege73a	Broad-band	1000000	Acceleration
119	EGE-73A Accelerometer 5000g/DTRA Datalogger	ege73a	Broad-band	1000000	Acceleration
120	7264B Accelerometer 2000g/DTRA Datalogger	e7264b	Broad-band	500000	Acceleration
121	7264B Accelerometer 2000g/DTRA Datalogger	e7264b	Broad-band	500000	Acceleration
122	EGE-73A Accelerometer 5000g/DTRA Datalogger	ege73a	Broad-band	500000	Acceleration
123	EGE-73A Accelerometer 5000g/DTRA Datalogger	ege73a	Broad-band	500000	Acceleration
124	7264C Accelerometer 500g/DTRA Datalogger	e7264c	Broad-band	500000	Acceleration
125	EGE-73A Accelerometer 5000g/DTRA Datalogger	ege73a	Broad-band	500000	Acceleration
126	EGE-73A Accelerometer 5000g/DTRA Datalogger	ege73a	Broad-band	500000	Acceleration
127	7264B Accelerometer 2000g/DTRA Datalogger	e7264b	Broad-band	1000000	Acceleration
128	7264C Accelerometer 500g/DTRA Datalogger	e7264c	Broad-band	1000000	Acceleration
129	EGE-73A Accelerometer 5000g/DTRA Datalogger	ege73a	Broad-band	1000000	Acceleration
130	EGE-73A Accelerometer 5000g/DTRA Datalogger	ege73a	Broad-band	1000000	Acceleration
131	7264B Accelerometer 2000g/DTRA Datalogger	e7264b	Broad-band	1000000	Acceleration
132	7264B Accelerometer 2000g/DTRA Datalogger	e7264b	Broad-band	1000000	Acceleration
133	7264B Accelerometer 2000g/DTRA Datalogger	e7264b	Broad-band	1000000	Acceleration
134	7264C Accelerometer 500g/DTRA Datalogger	e7264c	Broad-band	1000000	Acceleration
135	EGE-73A Accelerometer 5000g/DTRA Datalogger	ege73a	Broad-band	1000000	Acceleration
136	EGE-73A Accelerometer 5000g/DTRA Datalogger	ege73a	Broad-band	1000000	Acceleration
137	7264B Accelerometer 2000g/DTRA Datalogger	e7264b	Broad-band	1000000	Acceleration
138	7264B Accelerometer 2000g/DTRA Datalogger	e7264b	Broad-band	1000000	Acceleration
139	7264B Accelerometer 2000g/DTRA Datalogger	e7264b	Broad-band	1000000	Acceleration
140	7264C Accelerometer 500g/DTRA Datalogger	e7264c	Broad-band	1000000	Acceleration
141	EGE-73A Accelerometer 5000g/DTRA Datalogger	ege73a	Broad-band	1000000	Acceleration

Appendix 5
Instrument Metadata for SPE-6

Instrument ID	Instrument Name	Instrument Code	Frequency Band	Sample Rate (samples/second)	Response Type
142	EGE-73A Accelerometer 5000g/DTRA Datalogger	ege73a	Broad-band	1000000	Acceleration
143	7264B Accelerometer 2000g/DTRA Datalogger	e7264b	Broad-band	500000	Acceleration
144	7264B Accelerometer 2000g/DTRA Datalogger	e7264b	Broad-band	500000	Acceleration
145	7264B Accelerometer 2000g/DTRA Datalogger	e7264b	Broad-band	500000	Acceleration
146	7264C Accelerometer 500g/DTRA Datalogger	e7264c	Broad-band	500000	Acceleration
147	EGE-73A Accelerometer 5000g/DTRA Datalogger	ege73a	Broad-band	500000	Acceleration
148	EGE-73A Accelerometer 5000g/DTRA Datalogger	ege73a	Broad-band	500000	Acceleration
149	7264B Accelerometer 2000g/DTRA Datalogger	e7264b	Broad-band	1000000	Acceleration
150	7264C Accelerometer 500g/DTRA Datalogger	e7264c	Broad-band	1000000	Acceleration
151	EGE-73A Accelerometer 5000g/DTRA Datalogger	ege73a	Broad-band	1000000	Acceleration
152	EGE-73A Accelerometer 5000g/DTRA Datalogger	ege73a	Broad-band	1000000	Acceleration
153	7264B Accelerometer 2000g/DTRA Datalogger	e7264b	Broad-band	1000000	Acceleration
154	EGE-73A Accelerometer 5000g/DTRA Datalogger	ege73a	Broad-band	1000000	Acceleration
155	EGE-73A Accelerometer 5000g/DTRA Datalogger	ege73a	Broad-band	1000000	Acceleration
156	7264B Accelerometer 2000g/DTRA Datalogger	e7264b	Broad-band	1000000	Acceleration
157	EGE-73A Accelerometer 5000g/DTRA Datalogger	ege73a	Broad-band	1000000	Acceleration
158	EGE-73A Accelerometer 5000g/DTRA Datalogger	ege73a	Broad-band	1000000	Acceleration
159	EGE-73A Accelerometer 5000g/DTRA Datalogger	ege73a	Broad-band	1000000	Acceleration
160	EGE-73A Accelerometer 5000g/DTRA Datalogger	ege73a	Broad-band	1000000	Acceleration
161	EGE-73A Accelerometer 5000g/DTRA Datalogger	ege73a	Broad-band	1000000	Acceleration
162	7264B Accelerometer 2000g/DTRA Datalogger	e7264b	Broad-band	1000000	Acceleration
163	7264B Accelerometer 2000g/DTRA Datalogger	e7264b	Broad-band	1000000	Acceleration
164	EGE-73A Accelerometer 5000g/DTRA Datalogger	ege73a	Broad-band	1000000	Acceleration
165	EGE-73A Accelerometer 5000g/DTRA Datalogger	ege73a	Broad-band	1000000	Acceleration
166	EGE-73A Accelerometer 5000g/DTRA Datalogger	ege73a	Broad-band	1000000	Acceleration
167	EGE-73A Accelerometer 5000g/DTRA Datalogger	ege73a	Broad-band	1000000	Acceleration
168	EGE-73A Accelerometer 5000g/DTRA Datalogger	ege73a	Broad-band	1000000	Acceleration

Appendix 5
Instrument Metadata for SPE-6

Instrument ID	Instrument Name	Instrument Code	Frequency Band	Sample Rate (samples/second)	Response Type
169	7264B Accelerometer 2000g/DTRA Datalogger	e7264b	Broad-band	500000	Acceleration
170	EGE-73A Accelerometer 5000g/DTRA Datalogger	ege73a	Broad-band	500000	Acceleration
171	7264B Accelerometer 2000g/DTRA Datalogger	e7264b	Broad-band	500000	Acceleration
172	EGE-73A Accelerometer 5000g/DTRA Datalogger	ege73a	Broad-band	500000	Acceleration
173	EGE-73A Accelerometer 5000g/DTRA Datalogger	ege73a	Broad-band	500000	Acceleration
174	EGE-73A Accelerometer 5000g/DTRA Datalogger	ege73a	Broad-band	500000	Acceleration
175	EGE-73A Accelerometer 5000g/DTRA Datalogger	ege73a	Broad-band	500000	Acceleration
176	EGE-73A Accelerometer 5000g/DTRA Datalogger	ege73a	Broad-band	500000	Acceleration
177	7264B Accelerometer 2000g/DTRA Datalogger	e7264b	Broad-band	1000000	Acceleration
178	EGE-73A Accelerometer 5000g/DTRA Datalogger	ege73a	Broad-band	1000000	Acceleration
179	7264B Accelerometer 2000g/DTRA Datalogger	e7264b	Broad-band	1000000	Acceleration
180	EGE-73A Accelerometer 5000g/DTRA Datalogger	ege73a	Broad-band	1000000	Acceleration
181	EGE-73A Accelerometer 5000g/DTRA Datalogger	ege73a	Broad-band	1000000	Acceleration
182	EGE-73A Accelerometer 5000g/DTRA Datalogger	ege73a	Broad-band	1000000	Acceleration
183	EGE-73A Accelerometer 5000g/DTRA Datalogger	ege73a	Broad-band	1000000	Acceleration
184	EGE-73A Accelerometer 5000g/DTRA Datalogger	ege73a	Broad-band	1000000	Acceleration
185	7264G Accelerometer 2000g/DTRA Datalogger	e7264g	Broad-band	500000	Acceleration
186	7264C Accelerometer 500g/DTRA Datalogger	e7264c	Broad-band	500000	Acceleration
187	7264C Accelerometer 500g/DTRA Datalogger	e7264c	Broad-band	500000	Acceleration
188	7264G Accelerometer 2000g/DTRA Datalogger	e7264g	Broad-band	500000	Acceleration
189	7264C Accelerometer 500g/DTRA Datalogger	e7264c	Broad-band	500000	Acceleration
190	7264C Accelerometer 500g/DTRA Datalogger	e7264c	Broad-band	500000	Acceleration
191	7264C Accelerometer 500g/DTRA Datalogger	e7264c	Broad-band	500000	Acceleration
192	7264G Accelerometer 2000g/DTRA Datalogger	e7264g	Broad-band	1000000	Acceleration
193	7264C Accelerometer 500g/DTRA Datalogger	e7264c	Broad-band	1000000	Acceleration
194	7264C Accelerometer 500g/DTRA Datalogger	e7264c	Broad-band	1000000	Acceleration
195	7264G Accelerometer 2000g/DTRA Datalogger	e7264g	Broad-band	1000000	Acceleration
196	7264C Accelerometer 500g/DTRA Datalogger	e7264c	Broad-band	1000000	Acceleration

Appendix 5
Instrument Metadata for SPE-6

Instrument ID	Instrument Name	Instrument Code	Frequency Band	Sample Rate (samples/second)	Response Type
197	7264C Accelerometer 500g/DTRA Datalogger	e7264c	Broad-band	1000000	Acceleration
198	7264C Accelerometer 500g/DTRA Datalogger	e7264c	Broad-band	1000000	Acceleration
199	7264C Accelerometer 500g/DTRA Datalogger	e7264c	Broad-band	1000000	Acceleration
200	7264C Accelerometer 500g/DTRA Datalogger	e7264c	Broad-band	1000000	Acceleration
201	EGE-73A Accelerometer 5000g/DTRA Datalogger	ege73a	Broad-band	500000	Acceleration
202	7264G Accelerometer 2000g/DTRA Datalogger	e7264g	Broad-band	500000	Acceleration
203	7264G Accelerometer 2000g/DTRA Datalogger	e7264g	Broad-band	500000	Acceleration
204	EGE-73A Accelerometer 5000g/DTRA Datalogger	ege73a	Broad-band	500000	Acceleration
205	7264G Accelerometer 2000g/DTRA Datalogger	e7264g	Broad-band	500000	Acceleration
206	7264C Accelerometer 500g/DTRA Datalogger	e7264c	Broad-band	500000	Acceleration
207	EGE-73A Accelerometer 5000g/DTRA Datalogger	ege73a	Broad-band	1000000	Acceleration
208	7264G Accelerometer 2000g/DTRA Datalogger	e7264g	Broad-band	1000000	Acceleration
209	7264G Accelerometer 2000g/DTRA Datalogger	e7264g	Broad-band	1000000	Acceleration
210	EGE-73A Accelerometer 5000g/DTRA Datalogger	ege73a	Broad-band	1000000	Acceleration
211	7264G Accelerometer 2000g/DTRA Datalogger	e7264g	Broad-band	1000000	Acceleration
212	7264G Accelerometer 2000g/DTRA Datalogger	e7264g	Broad-band	1000000	Acceleration
213	7264C Accelerometer 500g/DTRA Datalogger	e7264c	Broad-band	1000000	Acceleration
214	7264C Accelerometer 500g/DTRA Datalogger	e7264c	Broad-band	1000000	Acceleration
215	7264C Accelerometer 500g/DTRA Datalogger	e7264c	Broad-band	1000000	Acceleration
216	7264G Accelerometer 2000g/DTRA Datalogger	e7264g	Broad-band	500000	Acceleration
217	7264C Accelerometer 500g/DTRA Datalogger	e7264c	Broad-band	500000	Acceleration
218	7264C Accelerometer 500g/DTRA Datalogger	e7264c	Broad-band	500000	Acceleration
219	7264G Accelerometer 2000g/DTRA Datalogger	e7264g	Broad-band	500000	Acceleration
220	7264C Accelerometer 500g/DTRA Datalogger	e7264c	Broad-band	500000	Acceleration
221	7264C Accelerometer 500g/DTRA Datalogger	e7264c	Broad-band	500000	Acceleration
222	7264G Accelerometer 2000g/DTRA Datalogger	e7264g	Broad-band	500000	Acceleration
223	7264C Accelerometer 500g/DTRA Datalogger	e7264c	Broad-band	500000	Acceleration
224	7264C Accelerometer 500g/DTRA Datalogger	e7264c	Broad-band	500000	Acceleration

Appendix 5
Instrument Metadata for SPE-6

Instrument ID	Instrument Name	Instrument Code	Frequency Band	Sample Rate (samples/second)	Response Type
225	7264G Accelerometer 2000g/DTRA Datalogger	e7264g	Broad-band	500000	Acceleration
226	7264C Accelerometer 500g/DTRA Datalogger	e7264c	Broad-band	500000	Acceleration
227	7264C Accelerometer 500g/DTRA Datalogger	e7264c	Broad-band	500000	Acceleration
228	7264C Accelerometer 500g/DTRA Datalogger	e7264c	Broad-band	500000	Acceleration
229	7264C Accelerometer 500g/DTRA Datalogger	e7264c	Broad-band	500000	Acceleration
230	7264C Accelerometer 500g/DTRA Datalogger	e7264c	Broad-band	500000	Acceleration
231	7264G Accelerometer 2000g/DTRA Datalogger	e7264g	Broad-band	1000000	Acceleration
232	7264C Accelerometer 500g/DTRA Datalogger	e7264c	Broad-band	1000000	Acceleration
233	7264C Accelerometer 500g/DTRA Datalogger	e7264c	Broad-band	1000000	Acceleration
234	7264G Accelerometer 2000g/DTRA Datalogger	e7264g	Broad-band	1000000	Acceleration
235	7264C Accelerometer 500g/DTRA Datalogger	e7264c	Broad-band	1000000	Acceleration
236	7264C Accelerometer 500g/DTRA Datalogger	e7264c	Broad-band	1000000	Acceleration
237	7264G Accelerometer 2000g/DTRA Datalogger	e7264g	Broad-band	1000000	Acceleration
238	7264C Accelerometer 500g/DTRA Datalogger	e7264c	Broad-band	1000000	Acceleration
239	7264C Accelerometer 500g/DTRA Datalogger	e7264c	Broad-band	1000000	Acceleration
240	7264G Accelerometer 2000g/DTRA Datalogger	e7264g	Broad-band	1000000	Acceleration
241	7264C Accelerometer 500g/DTRA Datalogger	e7264c	Broad-band	1000000	Acceleration
242	7264C Accelerometer 500g/DTRA Datalogger	e7264c	Broad-band	1000000	Acceleration
243	7264C Accelerometer 500g/DTRA Datalogger	e7264c	Broad-band	1000000	Acceleration
244	7264C Accelerometer 500g/DTRA Datalogger	e7264c	Broad-band	1000000	Acceleration
245	7264C Accelerometer 500g/DTRA Datalogger	e7264c	Broad-band	1000000	Acceleration
246	EGCS-D0-50g Accelerometer/DTRA Datalogger	egcsd0	Broad-band	500000	Acceleration
247	7264C Accelerometer 500g/DTRA Datalogger	e7264c	Broad-band	500000	Acceleration
248	7264C Accelerometer 500g/DTRA Datalogger	e7264c	Broad-band	500000	Acceleration
249	7264C Accelerometer 500g/DTRA Datalogger	e7264c	Broad-band	500000	Acceleration
250	7264C Accelerometer 500g/DTRA Datalogger	e7264c	Broad-band	500000	Acceleration
251	7264C Accelerometer 500g/DTRA Datalogger	e7264c	Broad-band	500000	Acceleration
252	7264C Accelerometer 500g/DTRA Datalogger	e7264c	Broad-band	500000	Acceleration

Appendix 5
Instrument Metadata for SPE-6

Instrument ID	Instrument Name	Instrument Code	Frequency Band	Sample Rate (samples/second)	Response Type
253	7264C Accelerometer 500g/DTRA Datalogger	e7264c	Broad-band	500000	Acceleration
254	7264C Accelerometer 500g/DTRA Datalogger	e7264c	Broad-band	1000000	Acceleration
255	7264C Accelerometer 500g/DTRA Datalogger	e7264c	Broad-band	1000000	Acceleration
256	7264C Accelerometer 500g/DTRA Datalogger	e7264c	Broad-band	1000000	Acceleration
257	7264C Accelerometer 500g/DTRA Datalogger	e7264c	Broad-band	1000000	Acceleration
258	7264C Accelerometer 500g/DTRA Datalogger	e7264c	Broad-band	1000000	Acceleration
259	7264C Accelerometer 500g/DTRA Datalogger	e7264c	Broad-band	1000000	Acceleration
260	7264C Accelerometer 500g/DTRA Datalogger	e7264c	Broad-band	1000000	Acceleration
261	7264C Accelerometer 500g/DTRA Datalogger	e7264c	Broad-band	1000000	Acceleration
262	EGCS-D0-1000g Accel/DTRA Datalogger	egcsd0	Broad-band	1000000	Acceleration
263	7264C Accelerometer 500g/DTRA Datalogger	e7264c	Broad-band	1000000	Acceleration
264	7264C Accelerometer 500g/DTRA Datalogger	e7264c	Broad-band	1000000	Acceleration
265	7264C Accelerometer 500g/DTRA Datalogger	e7264c	Broad-band	1000000	Acceleration
266	EGCS-D0-1000g Accel/DTRA Datalogger	egcsd0	Broad-band	1000000	Acceleration
267	7264C Accelerometer 500g/DTRA Datalogger	e7264c	Broad-band	1000000	Acceleration
268	7264C Accelerometer 500g/DTRA Datalogger	e7264c	Broad-band	1000000	Acceleration
269	7264C Accelerometer 500g/DTRA Datalogger	e7264c	Broad-band	1000000	Acceleration
270	EGCS-D0-1000g Accel/DTRA Datalogger	egcsd0	Broad-band	1000000	Acceleration
271	7264C Accelerometer 500g/DTRA Datalogger	e7264c	Broad-band	1000000	Acceleration
272	7264C Accelerometer 500g/DTRA Datalogger	e7264c	Broad-band	1000000	Acceleration
273	7264G Accelerometer 2000g/DTRA Datalogger	e7264g	Broad-band	1000000	Acceleration
274	EGCS-D0-1000g Accel/DTRA Datalogger	egcsd0	Broad-band	1000000	Acceleration
275	7264C Accelerometer 500g/DTRA Datalogger	e7264c	Broad-band	1000000	Acceleration
276	7264C Accelerometer 500g/DTRA Datalogger	e7264c	Broad-band	1000000	Acceleration
277	7264C Accelerometer 500g/DTRA Datalogger	e7264c	Broad-band	1000000	Acceleration
278	EGCS-D0-1000g Accel/DTRA Datalogger	egcsd0	Broad-band	1000000	Acceleration
279	7264C Accelerometer 500g/DTRA Datalogger	e7264c	Broad-band	1000000	Acceleration
280	7264G Accelerometer 2000g/DTRA Datalogger	e7264g	Broad-band	1000000	Acceleration

Appendix 5
Instrument Metadata for SPE-6

Instrument ID	Instrument Name	Instrument Code	Frequency Band	Sample Rate (samples/second)	Response Type
281	EGCS-D0-1000g Accel/DTRA Datalogger	egcsd0	Broad-band	1000000	Acceleration
282	7264C Accelerometer 500g/DTRA Datalogger	e7264c	Broad-band	1000000	Acceleration
283	7264C Accelerometer 500g/DTRA Datalogger	e7264c	Broad-band	1000000	Acceleration
284	EGE-73A Accelerometer 5000g/DTRA Datalogger	ege73a	Broad-band	1000000	Acceleration
285	7264C Accelerometer 500g/DTRA Datalogger	e7264c	Broad-band	1000000	Acceleration
286	EGE-73A Accelerometer 5000g/DTRA Datalogger	ege73a	Broad-band	1000000	Acceleration
287	EGE-73A Accelerometer 5000g/DTRA Datalogger	ege73a	Broad-band	1000000	Acceleration
288	7264C Accelerometer 500g/DTRA Datalogger	e7264c	Broad-band	1000000	Acceleration
289	7264C Accelerometer 500g/DTRA Datalogger	e7264c	Broad-band	1000000	Acceleration
290	EGE-73A Accelerometer 5000g/DTRA Datalogger	ege73a	Broad-band	1000000	Acceleration
291	EGE-73A Accelerometer 5000g/DTRA Datalogger	ege73a	Broad-band	1000000	Acceleration
292	7264C Accelerometer 500g/DTRA Datalogger	e7264c	Broad-band	1000000	Acceleration
293	EGE-73A Accelerometer 5000g/DTRA Datalogger	ege73a	Broad-band	1000000	Acceleration
294	EGE-73A Accelerometer 5000g/DTRA Datalogger	ege73a	Broad-band	1000000	Acceleration
295	7264C Accelerometer 500g/DTRA Datalogger	e7264c	Broad-band	1000000	Acceleration
296	EGE-73A Accelerometer 5000g/DTRA Datalogger	ege73a	Broad-band	1000000	Acceleration
297	EGE-73A Accelerometer 5000g/DTRA Datalogger	ege73a	Broad-band	1000000	Acceleration
298	7264C Accelerometer 500g/DTRA Datalogger	e7264c	Broad-band	1000000	Acceleration
299	EGE-73A Accelerometer 5000g/DTRA Datalogger	ege73a	Broad-band	1000000	Acceleration
300	EGE-73A Accelerometer 5000g/DTRA Datalogger	ege73a	Broad-band	1000000	Acceleration
301	7264C Accelerometer 500g/DTRA Datalogger	e7264c	Broad-band	1000000	Acceleration
302	EGE-73A Accelerometer 5000g/DTRA Datalogger	ege73a	Broad-band	1000000	Acceleration
303	EGE-73A Accelerometer 5000g/DTRA Datalogger	ege73a	Broad-band	1000000	Acceleration
304	7264C Accelerometer 500g/DTRA Datalogger	e7264c	Broad-band	1000000	Acceleration
305	EGE-73A Accelerometer 5000g/DTRA Datalogger	ege73a	Broad-band	1000000	Acceleration
306	EGE-73A Accelerometer 5000g/DTRA Datalogger	ege73a	Broad-band	1000000	Acceleration
307	7264C Accelerometer 500g/DTRA Datalogger	e7264c	Broad-band	1000000	Acceleration
308	EGE-73A Accelerometer 5000g/DTRA Datalogger	ege73a	Broad-band	1000000	Acceleration

Appendix 5
Instrument Metadata for SPE-6

Instrument ID	Instrument Name	Instrument Code	Frequency Band	Sample Rate (samples/second)	Response Type
309	EGE-73A Accelerometer 5000g/DTRA Datalogger	ege73a	Broad-band	1000000	Acceleration
310	7264C Accelerometer 500g/DTRA Datalogger	e7264c	Broad-band	1000000	Acceleration
311	EGE-73A Accelerometer 5000g/DTRA Datalogger	ege73a	Broad-band	1000000	Acceleration
312	EGE-73A Accelerometer 5000g/DTRA Datalogger	ege73a	Broad-band	1000000	Acceleration
313	7264C Accelerometer 500g/DTRA Datalogger	e7264c	Broad-band	1000000	Acceleration
314	EGE-73A Accelerometer 5000g/DTRA Datalogger	ege73a	Broad-band	1000000	Acceleration
315	EGE-73A Accelerometer 5000g/DTRA Datalogger	ege73a	Broad-band	1000000	Acceleration
316	7264C Accelerometer 500g/DTRA Datalogger	e7264c	Broad-band	1000000	Acceleration
317	EGE-73A Accelerometer 5000g/DTRA Datalogger	ege73a	Broad-band	1000000	Acceleration
318	EGE-73A Accelerometer 5000g/DTRA Datalogger	ege73a	Broad-band	1000000	Acceleration
319	7264C Accelerometer 500g/DTRA Datalogger	e7264c	Broad-band	1000000	Acceleration
320	EGE-73A Accelerometer 5000g/DTRA Datalogger	ege73a	Broad-band	1000000	Acceleration
321	EGE-73A Accelerometer 5000g/DTRA Datalogger	ege73a	Broad-band	1000000	Acceleration
322	7264B Accelerometer 2000g/DTRA Datalogger	e7264b	Broad-band	1000000	Acceleration
323	7264B Accelerometer 2000g/DTRA Datalogger	e7264b	Broad-band	1000000	Acceleration
324	EGE-73A Accelerometer 5000g/DTRA Datalogger	ege73a	Broad-band	1000000	Acceleration
325	7264B Accelerometer 2000g/DTRA Datalogger	e7264b	Broad-band	1000000	Acceleration
326	Endevco 7270A-2K/DTRA Datalogger	e7270	Broad-band	1000000	Acceleration
327	EGE-73A Accelerometer 5000g/DTRA Datalogger	ege73a	Broad-band	1000000	Acceleration
328	7264B Accelerometer 2000g/DTRA Datalogger	e7264b	Broad-band	1000000	Acceleration
329	7264B Accelerometer 2000g/DTRA Datalogger	e7264b	Broad-band	1000000	Acceleration
330	Endevco 7270A-2K/DTRA Datalogger	e7270	Broad-band	500000	Acceleration
331	EGE-73A Accelerometer 5000g/DTRA Datalogger	ege73a	Broad-band	500000	Acceleration
332	7264B Accelerometer 2000g/DTRA Datalogger	e7264b	Broad-band	500000	Acceleration
333	7264B Accelerometer 2000g/DTRA Datalogger	e7264b	Broad-band	500000	Acceleration
334	Endevco 7270A-2K/DTRA Datalogger	e7270	Broad-band	1000000	Acceleration
335	7264B Accelerometer 2000g/DTRA Datalogger	e7264b	Broad-band	1000000	Acceleration
336	7264B Accelerometer 2000g/DTRA Datalogger	e7264b	Broad-band	1000000	Acceleration

Appendix 5
Instrument Metadata for SPE-6

Instrument ID	Instrument Name	Instrument Code	Frequency Band	Sample Rate (samples/second)	Response Type
337	7264C Accelerometer 50g/DTRA Datalogger	e7264c	Broad-band	1000000	Acceleration
338	7264C Accelerometer 50g/DTRA Datalogger	e7264c	Broad-band	1000000	Acceleration
339	7264C Accelerometer 50g/DTRA Datalogger	e7264c	Broad-band	1000000	Acceleration
340	EGCS-D0-100g Accel/DTRA Datalogger	egcsd0	Broad-band	1000000	Acceleration
341	7264C Accelerometer 50g/DTRA Datalogger	e7264c	Broad-band	1000000	Acceleration
342	EGCS-D0-100g Accel/DTRA Datalogger	egcsd0	Broad-band	1000000	Acceleration
343	7264C Accelerometer 50g/DTRA Datalogger	e7264c	Broad-band	1000000	Acceleration
344	EGCS-D0-100g Accel/DTRA Datalogger	egcsd0	Broad-band	1000000	Acceleration
345	EGCS-D0-100g Accel/DTRA Datalogger	egcsd0	Broad-band	1000000	Acceleration
346	EGCS-D0-50g Accelerometer/DTRA Datalogger	egcsd0	Broad-band	1000000	Acceleration
347	EGCS-D0-50g Accelerometer/DTRA Datalogger	egcsd0	Broad-band	1000000	Acceleration
348	EGCS-D0-100g Accel/DTRA Datalogger	egcsd0	Broad-band	1000000	Acceleration
349	EGCS-D0-100g Accel/DTRA Datalogger	egcsd0	Broad-band	500000	Acceleration
350	7264C Accelerometer 50g/DTRA Datalogger	e7264c	Broad-band	1000000	Acceleration
351	EGCS-D0-100g Accel/DTRA Datalogger	egcsd0	Broad-band	1000000	Acceleration
352	EGCS-D0-100g Accel/DTRA Datalogger	egcsd0	Broad-band	500000	Acceleration
353	7264B Accelerometer 2000g/DTRA Datalogger	e7264b	Broad-band	500000	Acceleration
354	7264C Accelerometer 50g/DTRA Datalogger	e7264c	Broad-band	1000000	Acceleration
355	EGCS-D0-100g Accel/DTRA Datalogger	egcsd0	Broad-band	1000000	Acceleration
356	EGCS-D0-100g Accel/DTRA Datalogger	egcsd0	Broad-band	500000	Acceleration
357	7264C Accelerometer 50g/DTRA Datalogger	e7264c	Broad-band	1000000	Acceleration
358	EGCS-D0-100g Accel/DTRA Datalogger	egcsd0	Broad-band	1000000	Acceleration
359	EGCS-D0-50g Accelerometer/DTRA Datalogger	egcsd0	Broad-band	500000	Acceleration
360	7264C Accelerometer 50g/DTRA Datalogger	e7264c	Broad-band	1000000	Acceleration
361	EGCS-D0-50g Accelerometer/DTRA Datalogger	egcsd0	Broad-band	500000	Acceleration
362	7264C Accelerometer 50g/DTRA Datalogger	e7264c	Broad-band	1000000	Acceleration
363	EGCS-D0-50g Accelerometer/DTRA Datalogger	egcsd0	Broad-band	1000000	Acceleration
364	EGCS-D0-50g Accelerometer/DTRA Datalogger	egcsd0	Broad-band	500000	Acceleration

Appendix 5
Instrument Metadata for SPE-6

Instrument ID	Instrument Name	Instrument Code	Frequency Band	Sample Rate (samples/second)	Response Type
365	7264C Accelerometer 50g/DTRA Datalogger	e7264c	Broad-band	1000000	Acceleration
366	Gentex 3301 acoustic/Ensco Datalogger	gentex	Long-period	2048	Infrasound
367	PCB103B02 HP acoustic/Ensco Datalogger	PCB103	Long-period	2048	Infrasound
368	Geospace OMNI-2400 geophone/Ensco Datalogger	omni24	High frequency	2048	Velocity
369	Endevco 7264B-500/SNL Datalogger	endevc	Broad-band	4000	Acceleration
370	EGCS-D0-50g Accelerometer/DTRA Datalogger	egcsd0	Broad-band	500000	Acceleration
371	7264C Accelerometer 50g/DTRA Datalogger	e7264c	Broad-band	1000000	Acceleration
372	Endevco 7264B-500/DTRA Datalogger	endevc	Broad-band	500000	Acceleration
373	EGCS-D0-50g Accelerometer/DTRA Datalogger	egcsd0	Broad-band	500000	Acceleration
374	7264C Accelerometer 50g/DTRA Datalogger	e7264c	Broad-band	1000000	Acceleration
375	EGCS-D0-100g Accel/DTRA Datalogger	egcsd0	Broad-band	500000	Acceleration
376	7264C Accelerometer 50g/DTRA Datalogger	e7264c	Broad-band	1000000	Acceleration
377	7264B Accelerometer 2000g/DTRA Datalogger	e7264b	Broad-band	500000	Acceleration
378	EGCS-D0-50g Accelerometer/DTRA Datalogger	egcsd0	Broad-band	500000	Acceleration
379	7264C Accelerometer 50g/DTRA Datalogger	e7264c	Broad-band	1000000	Acceleration
380	EGCS-D0-100g Accel/DTRA Datalogger	egcsd0	Broad-band	500000	Acceleration
381	7264C Accelerometer 50g/DTRA Datalogger	e7264c	Broad-band	1000000	Acceleration
382	EGCS-D0-50g Accelerometer/DTRA Datalogger	egcsd0	Broad-band	500000	Acceleration
383	7264C Accelerometer 50g/DTRA Datalogger	e7264c	Broad-band	1000000	Acceleration
384	IML ST Infrasound/Reftek 130 Datalogger	iml_st	Long-period	500	Infrasound
385	Hyperion IFS3000 Infrasound/Geotech Smart24 DAS	hifs3k	Long-period	200	Infrasound
386	Geotech S-13 short-period seismometer/ping Tricom	s13	s	50	Velocity
387	Geotech S-13 short-period seismometer/cusp Tricom	s13	s	100	Velocity
388	Nanometrics Trillium 120 Compact/Reftek 130 Datalogger	trilli	Broad-band	200	Velocity
389	Geotech S-13 short-period seismometer/cusp UNVCO-2	s13	s	100	Velocity
390	Geotech S-13_GS-13 1 Hz seismometer/Reftek 130 Dat	s13	s	100	Velocity
391	Geotech S-13_GS-13 1 Hz seismometer/Reftek 130 Dat	s13	s	200	Velocity
392	IESE S21g-2.0/Reftek 130 Datalogger	s21g_2	High frequency	200	Velocity

Appendix 5
Instrument Metadata for SPE-6

Instrument ID	Instrument Name	Instrument Code	Frequency Band	Sample Rate (samples/second)	Response Type
393	Geotech S-13_GS-13 1 Hz seismometer/Quanterra 330	s13	s	100	Velocity
394	IESE S21g-2.0/Quanterra 330 Linear Phase Composite	s21g_2	High frequency	100	Velocity
395	Geotech S-13_GS-13 1 Hz seismometer/Quanterra 330	s13	s	200	Velocity
396	IESE S21g-2.0/Quanterra 330 Linear Phase Composite	s21g_2	High frequency	200	Velocity
397	Episensor 200 Hz 1.25 Volt per g/Reftek 130 Datalo	epi_1.	Broad-band	200	Acceleration
398	Hyperion IFS3000 Infrasound/Reftek 130 Datalogger	hifs3k	Long-period	25	Infrasound
399	Hyperion IFS3000 Infrasound/Reftek 130 Datalogger	hifs3k	Long-period	25	Infrasound
400	Hyperion IFS3000 Infrasound/Reftek 130 Datalogger	hifs3k	Long-period	100	Infrasound
401	Hyperion IFS3000 Infrasound/Reftek 130 Datalogger	hifs3k	Long-period	100	Infrasound
402	Terratech 50 Hz/IDS strong mo, 16-bit, no fir file	terrat	Broad-band	100	Acceleration
403	Mark Products L4C/Reftek 72A-08 Datalogger	l4c	s	100	Velocity
404	Mark Products L4C/Reftek 72A-08 Datalogger	l4c	s	20	Velocity
405	KMI FBA23 50 Hz FS 2g/Reftek 72A-08 Datalogger	fba23_	Broad-band	100	Acceleration
406	Applied MEMS, 2.5 Volt per g/Reftek 130 Datalogger	mems_2	Broad-band	100	Acceleration
407	Mark Products L4C/Reftek 130 Datalogger	l4c	s	100	Velocity
408	Episensor 200 Hz 10 Volt per g/Reftek 130 Datalogg	epi_10	Broad-band	200	Acceleration
409	Mark Products L4C/Reftek 130 Datalogger	l4c	s	200	Velocity
410	Guralp CMG40T_30sec/Reftek 72A-08 Datalogger	cmg40t	Broad-band	100	Velocity
411	Guralp CMG40T_30sec/Reftek 72A-08 Datalogger	cmg40t	Broad-band	20	Velocity
412	Geotech S-13 short-period seismometer/Reftek 72A-0	s13	s	100	Velocity
413	Geotech S-13 short-period seismometer/Reftek 72A-0	s13	s	20	Velocity
414	Geotech S-13 short-period seismometer/Reftek 130 D	s13	s	100	Velocity
415	Terratech 50 Hz/Reftek 72A-08 Datalogger	terrat	Broad-band	100	Acceleration
416	Geotech S-13 short-period seismometer/Quanterra 33	s13	s	100	Velocity
417	Applied MEMS, 2.5 Volt per g/Quanterra 330 Linear	mems_2	Broad-band	200	Acceleration
418	Geotech S-13_GS-13 1 Hz seismometer/Reftek 72A-07	s13	s	100	Velocity
419	Nanometrics Trillium 120 Compact/Quanterra 330 Lin	trilli	Broad-band	100	Velocity
420	Episensor 200 Hz 10 Volt per g/Quanterra 330 Linea	epi_10	Broad-band	100	Acceleration

Appendix 5
Instrument Metadata for SPE-6

Instrument ID	Instrument Name	Instrument Code	Frequency Band	Sample Rate (samples/second)	Response Type
421	Terratech 50 Hz/Reftek 72A-08 Datalogger	terrat	Broad-band	100	Acceleration
422	Applied MEMS, 2.5 Volt per g/Reftek 72A-08 Datalog	mems_2	Broad-band	100	Acceleration
423	Episensor 200 Hz 10 Volt per g/Reftek 130 Datalogg	epi_10	Broad-band	100	Acceleration
424	Episensor 200 Hz 10 Volt per g/Quanterra 330 Linea	epi_10	Broad-band	200	Acceleration
425	Guralp CMG4/Reftek 72A-08 Datalogger	cmg4	Broad-band	100	Velocity
426	Guralp CMG4/Reftek 72A-08 Datalogger	cmg4	Broad-band	20	Velocity
427	Mark Products L4C/Reftek 72A-08 Datalogger	l4c	s	100	Velocity
428	Terratech 50 Hz/Reftek 72A-08 Datalogger	terra_	Broad-band	100	Acceleration
429	Mark Products L4C/Quanterra 330 Linear Phase Compo	l4c	s	100	Velocity
430	Geotech S-13 short-period seismometer/Reftek 72A-0	s13	s	100	Velocity
431	Geotech S-13 short-period seismometer/Reftek 72A-0	s13	s	20	Velocity
432	Geotech S-13_GS-13 1 Hz seismometer/Reftek 72A-08	s13	s	100	Velocity
433	Geotech S-13_GS-13 1 Hz seismometer/Reftek 72A-08	s13	s	20	Velocity

Appendix 6

Selected Metadata for SPE-5 Surface Stations

Appendix 6
Selected Metadata for SPE-5 Surface Stations

Station ID	Estimated Latitude ^a (degrees)	Estimated Longitude ^a (degrees)	Estimated Elevation ^b (km amsl)	Channel Name	Sensor Type ^c	Sensor Serial No.	Channel Name	Sensor Type	Sensor Serial No.	Channel Name	Sensor Type	Sensor Serial No.
Near Field												
A1	37.2205	116.0613	1.524	60	64C-0050	A131619						
A2	37.2206	116.0612	1.523	59	64C-0050	A131550						
A3	37.2207	116.0612	1.522	58	64C-0050	A131575						
A4	37.2208	116.0611	1.523	57	64C-0050	A142913						
A5	37.2209	116.0610	1.525	107	64C-0050	A131532						
A6	37.2211	116.0609	1.525	1	64C-0050	A131555						
A7	37.2213	116.0608	1.526	104	64C-0050	A131539						
A8	37.2214	116.0608	1.526	56	64C-0050	A131558						
A9	37.2213	116.0612	1.528	55	64C-0050	A131533						
A10	37.2212	116.0610	1.526	102	64C-0050	A131628						
A11	37.2211	116.0607	1.525	106	64C-0050	A142914						
A12	37.2211	116.0606	1.523	108	64C-0050	A131630						
A13	37.2212	116.0609	1.526	13	64C-100	A130611						
A14	37.2211	116.0609	1.525	15	64C-0050	A131587						
A15	37.2212	116.0609	1.526	3	64C-0050	A131547						
A16	37.2212	116.0609	1.526	98	64C-0050	A142912						
SPE Seismic Lines												
L1-01	37.2221	-116.0610	1.531	L1-01-V	GS11d	83-V	L1-01-R	GS11d	83-H1	L1-01-T	GS11d	83-H2
L1-02	37.2230	-116.0611	1.538	L1-02-V	GS11d	67-V	L1-02-R	GS11d	67H1	L1-02-T	GS11d	67H2
L1-03	37.2239	-116.0611	1.541	L1-03-V	GS11d	108-V	L1-03-R	GS11d	108-H1	L1-03-T	GS11d	108-H2
L1-04	37.2248	-116.0612	1.538	L1-04-V	GS11d	111-V	L1-04-R	GS11d	111H1	L1-04-T	GS11d	111H2
L1-05	37.2257	-116.0613	1.551	L1-05-V	GS11d	5-V	L1-05-R	GS11d	5-H1	L1-05-T	GS11d	5-H2
L1-06	37.2265	-116.0614	1.560	L1-06-V	GS11d	76-V	L1-06-R	GS11d	76-H1	L1-06-T	GS11d	76-H2
L1-07	37.2275	-116.0615	1.560	L1-07-V	GS11d	7-V	L1-07-R	GS11d	7-H1	L1-07-T	GS11d	7-H2
L1-08	37.2284	-116.0616	1.573	L1-08-V	GS11d	214830-07-V	L1-08-R	GS11d	214830-07-H1	L1-08-T	GS11d	214830-07-H2
L1-09	37.2292	-116.0616	1.590	L1-09-V	GS11d	225358-06-V	L1-09-R	GS11d	225358-06-H1	L1-09-T	GS11d	225358-06-H2
L1-10	37.2302	-116.0617	1.586	L1-10-V	GS11d	16-V	L1-12-R	GS11d	16H1	L1-12-T	GS11d	16H2
L1-11	37.2310	-116.0618	1.599	L1-11-V	GS11d	214830-12-V	L1-11-R	GS11d	214830-12-H1	L1-11-T	GS11d	214830-12-H2
L1-12	37.2319	-116.0619	1.606	L1-12-V	GS11d	34-V	L1-12-R	GS11d	34H1	L1-12-T	GS11d	34H2
L1-13	37.2328	-116.0620	1.617	L1-13-V	GS11d	69-V	L1-13-R	GS11d	69-H1	L1-13-T	GS11d	69-H2
L1-14	37.2337	-116.0621	1.635	L1-14-V	GS11d	38-V	L1-14-R	GS11d	38-H1	L1-14-T	GS11d	38-H2
L1-15	37.2346	-116.0621	1.657	L1-15-V	GS11d	214830-08-V	L1-15-R	GS11d	214830-08-H1	L1-15-T	GS11d	214830-08-H2
L1-16	37.2355	-116.0622	1.675	L1-16-V	GS11d	35-V	L1-16-R	GS11d	35H1	L1-16-T	GS11d	35H2

Appendix 6
Selected Metadata for SPE-5 Surface Stations

Station ID	Estimated Latitude ^a (degrees)	Estimated Longitude ^a (degrees)	Estimated Elevation ^b (km amsl)	Channel Name	Sensor Type ^c	Sensor Serial No.	Channel Name	Sensor Type	Sensor Serial No.	Channel Name	Sensor Type	Sensor Serial No.
L1-17	37.2364	-116.0623	1.707	L1-17-V	GS11d	214830-19-V	L1-17-R	GS11d	214830-19-H1	L1-17-T	GS11d	214830-19-H2
L1-18	37.2373	-116.0624	1.740	L1-18-V	GS11d	214830-03-V	L1-18-R	GS11d	214830-03-H1	L1-18-T	GS11d	214830-03-H2
L1-19	37.2382	-116.0625	1.739	L1-19-V	GS11d	225358-20-V	L1-19-R	GS11d	225358-20-H1	L1-19-T	GS11d	225358-20-H2
L1-20	37.2391	-116.0626	1.753	L1-20-V	CMG40T-V	T4093	L1-20-R	CMG40T-R	T4093	L1-20-T	CMG40T-T	T4093
L2-01	37.2218	-116.0600	1.521	L2-01-V	GS11d	225358-15-V	L2-01-R	GS11d	225358-15-H1	L2-01-T	GS11d	225358-15-H2
L2-02	37.2223	-116.0592	1.516	L2-02-V	GS11d	225358-12-V	L2-02-R	GS11d	225358-12-H1	L2-02-T	GS11d	225358-12-H2
L2-03	37.2229	-116.0583	1.529	L2-03-V	GS11d	225358-11-V	L2-03-R	GS11d	225358-15-H1	L2-03-T	GS11d	225358-15-H2
L2-04	37.2235	-116.0575	1.529	L2-04-V	GS11d	225358-31-V	L2-04-R	GS11d	225358-31-H1	L2-04-T	GS11d	225358-31-H2
L2-05	37.2241	-116.0566	1.533	L2-05-V	GS11d	12-V	L2-05-R	GS11d	12-H1	L2-05-H2	GS11d	12-H2
L2-06	37.2247	-116.0558	1.532	L2-06-V	GS11d	92-V	L2-06-R	GS11d	92H1	L2-06-T	GS11d	92H2
L2-07	37.2253	-116.0549	1.531	L2-07-V	GS11d	225358-50-V	L2-07-R	GS11d	225358-50-H1	L2-07-T	GS11d	225358-50-H2
L2-08	37.2259	-116.0541	1.531	L2-08-V	GS11d	214830-V	L2-08-R	GS11d	214830-H1	L2-08-T	GS11d	214830-H2
L2-09	37.2265	-116.0532	1.538	L2-09-V	GS11d	225358-13-V	L2-09-R	GS11d	225358-13-H1	L2-09-T	GS11d	225358-13-H2
L2-10	37.2271	-116.0524	1.532	L2-10-V	GS11d	40-V	L2-10-R	GS11d	40-H1	L2-10-T	GS11d	40-H2
L2-11	37.2277	-116.0516	1.539	L2-11-V	GS11d	107-V	L2-11-R	GS11d	107-H1	L2-11-T	GS11d	107-H2
L2-12	37.2283	-116.0507	1.538	L2-12-V	GS11d	20-V	L2-12-R	GS11d	20-H1	L2-12-T	GS11d	20-H2
L2-13	37.2289	-116.0499	1.537	L2-13-V	GS11d	90-V	L2-13-R	GS11d	90-H1	L2-13-T	GS11d	90-H2
L2-14	37.2295	-116.0490	1.542	L2-14-V	GS11d	43-V	L2-14-R	GS11d	43-H1	L2-14-T	GS11d	43-H2
L2-15	37.2300	-116.0482	1.544	L2-15-V	GS11d	101-V	L2-15-R	GS11d	101-H1	L2-15-T	GS11d	101-H2
L2-16	37.2306	-116.0473	1.538	L2-16-V	GS11d	214830-17-V	L2-16-R	GS11d	214830-17-H1	L2-16-T	GS11d	214830-17-H2
L2-17	37.2312	-116.0465	1.550	L2-17-V	GS11d	33-V	L2-17-R	GS11d	33-H1	L2-17-T	GS11d	33-H2
L2-18	37.2318	-116.0456	1.549	L2-18-V	GS11d	73-V	L2-18-R	GS11d	73-H1	L2-18-T	GS11d	73-H2
L2-19	37.2324	-116.0448	1.554	L2-19-V	GS11d	88-V	L2-19-R	GS11d	88-H1	L2-19-T	GS11d	88-H2
L2-20	37.2330	-116.0439	1.534	L2-20-V	CMG40T-V	T4092	L2-20-R	CMG40T-R	T4092	L2-20-T	CMG40T-T	T4092
L3-01	37.2203	-116.0607	1.518	L3-01-V	GS11d	52-V	L3-01-R	GS11d	52-H1	L3-01-T	GS11d	52-H2
L3-02	37.2194	-116.0606	1.513	L3-02-V	GS11d	214830-09-V	L3-02-R	GS11d	214830-09-H1	L3-02-T	GS11d	214830-09-H2
L3-03	37.2185	-116.0605	1.514	L3-03-V	GS11d	84-V	L3-03-R	GS11d	84-H1	L3-03-T	GS11d	84-H2
L3-04	37.2176	-116.0603	1.497	L3-04-V	GS11d	44-V	L3-04-R	GS11d	44-H1	L3-04-T	GS11d	44-H2
L3-05	37.2167	-116.0602	1.497	L3-05-V	GS11d	214830-02-V	L3-05-R	GS11d	214830-02-H1	L3-05-T	GS11d	214830-02-H2
L3-06	37.2158	-116.0600	1.495	L3-06-V	GS11d	105-V	L3-06-R	GS11d	105-H1	L3-06-T	GS11d	105-H2
L3-07	37.2149	-116.0599	1.488	L3-07-V	GS11d	58-V	L3-07-R	GS11d	58-H1	L3-07-T	GS11d	58-H2
L3-08	37.2140	-116.0598	1.485	L3-08-V	GS11d	104-V	L3-08-R	GS11d	104-H1	L3-08-T	GS11d	104-H2

Appendix 6
Selected Metadata for SPE-5 Surface Stations

Station ID	Estimated Latitude ^a (degrees)	Estimated Longitude ^a (degrees)	Estimated Elevation ^b (km amsl)	Channel Name	Sensor Type ^c	Sensor Serial No.	Channel Name	Sensor Type	Sensor Serial No.	Channel Name	Sensor Type	Sensor Serial No.
L3-09	37.2131	-116.0596	1.470	L3-09-V	GS11d	61-V	L3-09-R	GS11d	61-H1	L3-09-T	GS11d	61-H2
L3-10	37.2122	-116.0595	1.482	L3-10-V	GS11d	03-V	L3-10-R	GS11d	03-H1	L3-10-T	GS11d	03-H2
L3-11	37.2113	-116.0593	1.476	L3-11-V	GS11d	214830-01-V	L3-11-R	GS11d	214830-01-H1	L3-11-T	GS11d	214830-01-H2
L3-12	37.2104	-116.0592	1.465	L3-12-V	GS11d	214830-11-V	L3-12-R	GS11d	214830-11-H1	L3-12-T	GS11d	214830-11-H2
L3-13	37.2095	-116.0591	1.460	L3-13-V	GS11d	214830-15-V	L3-13-R	GS11d	214830-15-H1	L3-13-T	GS11d	214830-15-H2
L3-14	37.2086	-116.0589	1.464	L3-14-V	GS11d	225358-39-V	L3-14-R	GS11d	225358-39-H1	L3-14-T	GS11d	225358-39-H2
L3-15	37.2077	-116.0588	1.454	L3-15-V	GS11d	89-V	L3-15-R	GS11d	89-H1	L3-15-T	GS11d	89-H2
L3-16	37.2069	-116.0586	1.438	L3-16-V	GS11d	78-V	L3-16-R	GS11d	78-H1	L3-16-T	GS11d	78-H2
L3-17	37.2060	-116.0585	1.433	L3-17-V	GS11d	214830-04-V	L3-17-R	GS11d	214830-04-H1	L3-17-T	GS11d	214830-04-H2
L3-18	37.2051	-116.0584	1.435	L3-18-V	GS11d	01-V	L3-18-R	GS11d	01-H1	L3-18-T	GS11d	01-H2
L3-19	37.2042	-116.0582	1.430	L3-19-V	GS11d	86-V	L3-19-R	GS11d	86-H1	L3-19-T	GS11d	86-H2
L3-20	37.2033	-116.0581	1.424	L3-20-V	Trillium	1017	L3-20-R	Trillium	1017	L3-20-T	Trillium	1017
L3-23	37.1899	-116.0560	1.346	L3-23-Z	Trillium	1023	L3-23-N	Trillium	1023	L3-23-E	Trillium	1023
L3-26	37.1769	-116.0539	1.311	L3-26-Z	Trillium	1448	L3-26-N	Trillium	1448	L3-26-E	Trillium	1448
L3-28	37.1407	-116.0482	1.286	L3-28-Z	Trillium	1032	L3-28-N	Trillium	1032	L3-28-E	Trillium	1032
L3-30	37.1049	-116.0426	1.275	L3-30-Z	Trillium	1022	L3-30-N	Trillium	1022	L3-30-E	Trillium	1022
L3-32	37.0697	-116.0370	1.237	L3-32-Z	Trillium	1025	L3-32-N	Trillium	1025	L3-32-E	Trillium	1025
L3-34	37.0329	-116.0314	1.219	L3-34-Z	Trillium	1021	L3-34-N	Trillium	1021	L3-34-E	Trillium	1021
L3-36	36.9976	-116.0258	1.205	L3-36-Z	Trillium	1010	L3-36-N	Trillium	1010	L3-36-E	Trillium	1010
L4-01	37.2203	-116.0614	1.524	L4-01-V	GS11d	66-V	L4-01-R	GS11d	66-H1	L4-01-T	GS11d	66-H2
L4-02	37.2195	-116.0619	1.523	L4-02-V	GS11d	11-V	L4-02-R	GS11d	11-H1	L4-02-T	GS11d	11-H2
L4-03	37.2187	-116.0624	1.533	L4-03-V	GS11d	98	L4-03-R	GS11d	98-H1	L4-03-T	GS11d	98-H2
L4-04	37.2179	-116.0629	1.525	L4-04-V	GS11d	225358-19-V	L4-04-R	GS11d	225358-19-H1	L4-04-T	GS11d	225358-19-H2
L4-05	37.2171	-116.0634	1.504	L4-05-V	GS11d	99-V	L4-05-R	GS11d	99-H1	L4-05-T	GS11d	99-H2
L4-06	37.2163	-116.0639	1.500	L4-06-V	GS11d	62-V	L4-06-R	GS11d	62-H1	L4-06-T	GS11d	62-H2
L4-07	37.2155	-116.0643	1.514	L4-07-V	GS11d	214830-14-V	L4-07-R	GS11d	214830-14-H1	L4-07-T	GS11d	214830-14-H2
L4-08	37.2147	-116.0648	1.507	L4-08-V	GS11d	48-V	L4-08-R	GS11d	48-H1	L4-08-T	GS11d	48-H2
L4-09	37.2139	-116.0653	1.508	L4-09-V	GS11d	32-V	L4-09-R	GS11d	32-H1	L4-09-T	GS11d	32-H2
L4-10	37.2131	-116.0658	1.505	L4-10-V	GS11d	225358-05-V	L4-10-R	GS11d	225358-05-H1	L4-10-T	GS11d	225358-05-H2
L4-11	37.2122	-116.0663	1.509	L4-11-V	GS11d	97-V	L4-11-R	GS11d	97-H1	L4-11-T	GS11d	97-H2
L4-12	37.2114	-116.0668	1.513	L4-12-V	GS11d	214830-16-V	L4-12-R	GS11d	214830-16-H1	L4-12-T	GS11d	214830-16-H2
L4-13	37.2106	-116.0673	1.514	L4-13-V	GS11d	114-V	L4-13-R	GS11d	114-H1	L4-13-T	GS11d	114-H2

Appendix 6
Selected Metadata for SPE-5 Surface Stations

Station ID	Estimated Latitude ^a (degrees)	Estimated Longitude ^a (degrees)	Estimated Elevation ^b (km amsl)	Channel Name	Sensor Type ^c	Sensor Serial No.	Channel Name	Sensor Type	Sensor Serial No.	Channel Name	Sensor Type	Sensor Serial No.
L4-14	37.2098	-116.0678	1.512	L4-14-V	GS11d	12-V	L4-14-R	GS11d	12-H1	L4-14-T	GS11d	12-H2
L4-15	37.2090	-116.0683	1.515	L4-15-V	GS11d	49-V	L4-15-R	GS11d	49-H1	L4-15-T	GS11d	49-H2
L4-16	37.2082	-116.0688	1.516	L4-16-V	GS11d	32-V	L4-16-R	GS11d	32-H1	L4-16-T	GS11d	32-H2
L4-17	37.2074	-116.0693	1.513	L4-17-V	GS11d	85-V	L4-17-R	GS11d	85-H1	L4-17-T	GS11d	85-H2
L4-18	37.2066	-116.0698	1.509	L4-18-V	GS11d	6-V	L4-18-R	GS11d	6-H1	L4-18-T	GS11d	6-H2
L4-19	37.2058	-116.0703	1.515	L4-19-V	GS11d	70-V	L4-19-R	GS11d	70-H1	L4-19-T	GS11d	70-H2
L4-20	37.2050	-116.0708	1.508	L4-20-V	CMG40T-V	T4315	L4-20-R	CMG40T-R	T4315	L4-20-T	CMG40T-T	T4315
L4-23	37.1928	-116.0782	1.441	L4-23-Z	Trillium	1037	L4-23-N	Trillium	1037	L4-23-E	Trillium	1037
L4-26	37.1807	-116.0856	1.382	L4-26-Z	Trillium	1013	L4-26-N	Trillium	1013	L4-26-E	Trillium	1013
L4-28	37.1483	-116.1053	1.356	L4-28-Z	Trillium	1024	L4-28-N	Trillium	1024	L4-28-E	Trillium	1024
L4-30	37.1159	-116.1250	1.380	L4-30-Z	Trillium	1015	L4-30-N	Trillium	1015	L4-30-E	Trillium	1015
L4-32	37.0834	-116.1447	1.422	L4-32-Z	Trillium	1030	L4-32-N	Trillium	1030	L4-32-E	Trillium	1030
L4-34	37.0510	-116.1644	1.569	L4-34-Z	Trillium	1009	L4-34-N	Trillium	1009	L4-34-E	Trillium	1009
L4-36	37.0186	-116.1841	1.529	L4-36-Z	Trillium	1029	L4-36-N	Trillium	1029	L4-36-E	Trillium	1029
L5-01	37.2214	-116.0620	1.540	L5-01-V	GS11d	54-V	L4-01-R	GS11d	54-H1	L5-01-T	GS11d	54-H2
L5-02	37.2216	-116.0631	1.558	L5-02-V	GS11d	225358-18-V	L5-02-R	GS11d	225358-18-H1	L5-02-T	GS11d	225358-18-H2
L5-03	37.2218	-116.0642	1.578	L5-03-V	GS11d	119-V	L4-03-R	GS11d	119-H1	L5-03-T	GS11d	119-H2
L5-04	37.2220	-116.0653	1.623	L5-04-V	GS11d	17-V	L5-04-R	GS11d	17-H1	L5-04-T	GS11d	17-H2
L5-05	37.2222	-116.0664	1.642	L5-05-V	GS11d	59-V	L4-05-R	GS11d	59-H1	L5-05-T	GS11d	59-H2
L5-06	37.2224	-116.0675	1.621	L5-06-V	GS11d	102-V	L5-06-R	GS11d	102-H1	L5-06-T	GS11d	102-H2
L5-07	37.2227	-116.0686	1.613	L5-07-V	GS11d	109-V	L4-07-R	GS11d	109-H1	L5-07-T	GS11d	109-H2
L5-08	37.2229	-116.0696	1.590	L5-08-V	GS11d	110-V	L5-08-R	GS11d	110-H1	L5-08-T	GS11d	110-H2
L5-09	37.2231	-116.0707	1.580	L5-09-V	GS11d	116-V	L5-09-R	GS11d	116-H1	L5-09-T	GS11d	116-H2
L5-10	37.2233	-116.0718	1.569	L5-10-V	GS11d	51-V	L5-10-R	GS11d	51-H1	L5-10-T	GS11d	51-H2
L5-11	37.2235	-116.0729	1.568	L5-11-V	GS11d	36-V	L5-11-R	GS11d	36-H1	L5-11-R	GS11d	36-H2
L5-12	37.2237	-116.0740	1.587	L5-12-V	GS11d	10-V	L5-12-R	GS11d	10-H1	L5-12-T	GS11d	10-H2
L5-13	37.2239	-116.0751	1.614	L5-13-V	GS11d	225358-41-V	L5-13-R	GS11d	225358-41-H1	L5-13-R	GS11d	225358-41-H2
L5-14	37.2242	-116.0762	1.644	L5-14-V	GS11d	47-V	L5-14-R	GS11d	47-H1	L5-14-T	GS11d	47-H2
L5-15	37.2244	-116.0773	1.679	L5-15-V	GS11d	55-V	L5-15-R	GS11d	55-H1	L5-15-R	GS11d	55-H2
L5-16	37.2246	-116.0784	1.727	L5-16-V	CMG40-T-V	T4091	L5-16-R	CMG40-T-R	T4091	L5-16-T	CMG40-T	T4091
L5-24	37.2297	-116.1047	1.768	L5-24-Z	Trillium	1026	L5-24-N	Trillium	1026	L5-24-T	Trillium	1026
L5-26	37.2319	-116.1156	1.809	L5-26-Z	Trillium	1011	L5-26-N	Trillium	1011	L5-26-T	Trillium	1011

Appendix 6
Selected Metadata for SPE-5 Surface Stations

Station ID	Estimated Latitude ^a (degrees)	Estimated Longitude ^a (degrees)	Estimated Elevation ^b (km amsl)	Channel Name	Sensor Type ^c	Sensor Serial No.	Channel Name	Sensor Type	Sensor Serial No.	Channel Name	Sensor Type	Sensor Serial No.
L5-28	37.2404	-116.1594	1.912	L5-28-Z	Trillium	1012	L5-28-N	Trillium	1012	L5-28-T	Trillium	1012
L5-30	37.2489	-116.2032	2.075	L5-30-Z	Trillium	1016	L5-30-N	Trillium	1016	L5-30-T	Trillium	1016
L5-34	37.2660	-116.2909	2.078	L5-34-Z	Trillium	1014	L5-34-N	Trillium	1014	L5-34-T	Trillium	1014
L5-36	37.2744	-116.3347	2.101	L5-36-Z	Trillium	1033	L5-36-N	Trillium	1033	L5-36-T	Trillium	1033
Far Field												
GEO-5				GEO-5-V	GS11d	WD-03-V	GEO-5-N	GS11d	WD-03-H1	GEO-5-E	GS11d	WD-03-H2
GEO-6				GEO-6-V	GS11d	WD-01-V	GEO-6-N	GS11d	WD-01-H1	GEO-6-E	GS11d	WD-01-H2
GEO-3				GEO-3-V	GS11d	WD-02-V	GEO-3-N	GS11d	WD-02-H1	GEO-3-E	GS11d	WD-02-H2
GEO-4				GEO-4-V	GS11d	WD-04-V	GEO-4-N	GS11d	WD-04-H1	GEO-4-E	GS11d	WD-04-H2
GEO-1				GEO-1-V	GS11d	WD-05-V	GEO-1-N	GS11d	WD-05-H1	GEO-1-E	GS11d	WD-05-H2
GEO-2				GEO-2-V	GS11d	WD-03-V	GEO-2-N	GS11d	WD-03-H1	GEO-2-E	GS11d	WD-03-H2
FO001	37.1842	-116.1430	1.527	FOAS-1-V	GS11d	95-V	FOAS-1-H1	GS11d	95-H1	FOAS-1-H2	GS11d	95-H2
FO002	37.1001	-116.1453	1.441	FOAS-2-V	GS11d	63-08-V	FOAS-2-H1	GS11d	63-08-H1	FOAS-2-H2	GS11d	63-08-H2
FO003	37.0207	-116.1138	1.300	FOAS-3-V	GS11d	63-10-V	FOAS-3-H1	GS11d	63-10-H1	FOAS-3-H2	GS11d	63-10-H2
FO004	36.9536	-116.0546	1.216	FOAS-4-V	GS11d	46-V	FOAS-4-H1	GS11d	46-H1	FOAS-4-H2	GS11d	46-H2
TP				TP-V	GS11d	53-V	TP-H1	GS11d	53-H1	TP-H2	GS11d	53-H2
E-5K-I				E-5K-IN	Chaparral	112393	E-5K-ISE	Chaparral	112394	E-5K-ISW	Chaparral	112396
E-5K-G				E-5K-G-Z	GS11d	WO-09	E-5K-G-N	GS11d	WO-09	E-5K-G-E	GS11d	WO-09
E-10K-I				E-10K-IN	Chaparral	112399	E-10K-ISE	Chaparral	112395	E-10K-ISW	Chaparral	112400
E-10K-G				E-10K-G-Z	GS11d	WO-06	E-10K-G-N	GS11d	WO-06	E-10K-G-E	GS11d	WO-06
AFTAC-1	37.2160	-116.1611	1.637	AF-1-Z	Trillium	1447	AF-1-N	Trillium	1447	AF-1-E	Trillium	1447
AFTAC-2	37.1640	-116.1423	1.494	AF-2-Z	Trillium	1449	AF-2-N	Trillium	1449	AF-2-E	Trillium	1449
AFTAC-3	37.1313	-116.0573	1.262	AF-3-Z	Trillium	1445	AF-3-N	Trillium	1445	AF-3-E	Trillium	1445
AFTAC-4	37.1801	-115.9834	1.437	AF-4-Z	Trillium	1442	AF-4-N	Trillium	1442	AF-4-E	Trillium	1442
AFTAC-5	37.1894	-116.0204	1.337	AF-5-Z	Trillium	1454	AF-5-N	Trillium	1454	AF-5-E	Trillium	1454
AFTAC-6	37.0531	-116.0903	1.248	AF-6-Z	Trillium	1450	AF-6-N	Trillium	1450	AF-6-E	Trillium	1450
AFTAC-7	37.1239	-116.1478	1.452	AF-7-Z	Trillium	1455	AF-7-N	Trillium	1455	AF-7-E	Trillium	1455
AFTAC-8	37.2211	-116.0496	1.454	AF-8-Z	EpiSensor	2571	AF-8-N	EpiSensor	2571	AF-8-E	EpiSensor	2571
AFTAC-9	37.2299	-116.0577	1.549	AF-9-Z	EpiSensor	2570	AF-9-N	EpiSensor	2570	AF-9-E	EpiSensor	2570
AFTAC-10				AF-10-Z	EpiSensor	2569	AF-10-N	EpiSensor	2569	AF-10-E	EpiSensor	2569

NOTES

- Coordinates in decimal degrees, Geographical Coordinate System, WGS1984.
- Elevations in decimal kilometers above mean sea level (km amsl), WGS1984.
- See Appendix 3 for key to instrument sensor type.

Appendix 7

Selected Metadata for SPE-6 Surface Stations

Appendix 7
Selected Metadata for SPE-6 Surface Stations

Station ID	Channel	Channel ID	Description	Estimated Latitude	Estimated Longitude	Elevation km (amsl)	Location
Near Field							
DT007	FNZ	4849	N99320 123456	37.2212	-116.0609	1.5247	NNSS-SPE DTRA Surface sp1 0m A13
DT007	FNZ	4850	A131590 123456	37.2212	-116.0609	1.5247	NNSS-SPE DTRA Surface sp1 0m A13
DT007	FNZ	4851	A134509 123456	37.2212	-116.0609	1.5247	NNSS-SPE DTRA Surface sp1 0m A13
DT007	FNZ	4852	A134509 123456	37.2212	-116.0609	1.5247	NNSS-SPE DTRA Surface sp1 0m A13
DT008	FNZ	4853	N99279 123456	37.2211	-116.0609	1.5247	NNSS-SPE DTRA Surface sp1 10m A14
DT008	FNZ	4854	A131587 123456	37.2211	-116.0609	1.5247	NNSS-SPE DTRA Surface sp1 10m A14
DT008	FNZ	4855	A131587 123456	37.2211	-116.0609	1.5247	NNSS-SPE DTRA Surface sp1 10m A14
DT008	FNZ	4856	A131587 123456	37.2211	-116.0609	1.5247	NNSS-SPE DTRA Surface sp1 10m A14
DT009	FNZ	4857	N99277 123456	37.2210	-116.0610	1.5246	NNSS-SPE DTRA Surface sp1 20m
DT010	FNZ	4858	N3-337 123456	37.2210	-116.0610	1.5246	NNSS-SPE DTRA Surface sp1 30m
DT011	FNZ	4859	X01650 123456	37.2209	-116.0611	1.5225	NNSS-SPE DTRA Surface sp1 40m
DT012	FNZ	4860	X01647 123456	37.2208	-116.0611	1.5223	NNSS-SPE DTRA Surface sp1 50m
DT013	FNZ	4861	N99320 123456	37.2215	-116.0608	1.5246	NNSS-SPE DTRA Surface A8 sp2 30m NE
DT013	GNZ	4862	N99320 123456	37.2215	-116.0608	1.5246	NNSS-SPE DTRA Surface A8 sp2 30m NE
DT013	FNZ	4863	A131558 123456	37.2215	-116.0608	1.5246	NNSS-SPE DTRA Surface A8 sp2 30m NE
DT013	FNZ	4864	A131558 123456	37.2215	-116.0608	1.5246	NNSS-SPE DTRA Surface A8 sp2 30m NE
DT013	FNZ	4865	A131558 123456	37.2215	-116.0608	1.5246	NNSS-SPE DTRA Surface A8 sp2 30m NE
DT014	FNZ	4866	N99279 123456	37.2213	-116.0612	1.5273	NNSS-SPE DTRA Surface A9 sp2 30m NW
DT014	GNZ	4867	N99279 123456	37.2213	-116.0612	1.5273	NNSS-SPE DTRA Surface A9 sp2 30m NW
DT014	GNZ_sl	4868	B19874 123456	37.2213	-116.0612	1.5273	NNSS-SPE DTRA Surface A9 sp2 30m NW
DT014	FNZ	4869	A131533 123456	37.2213	-116.0612	1.5273	NNSS-SPE DTRA Surface A9 sp2 30m NW
DT014	FNZ	4870	A130603 123456	37.2213	-116.0612	1.5273	NNSS-SPE DTRA Surface A9 sp2 30m NW
DT014	FNZ	4871	A130603 123456	37.2213	-116.0612	1.5273	NNSS-SPE DTRA Surface A9 sp2 30m NW
DT015	FNZ	4872	N99277 123456	37.2208	-116.0611	1.5219	NNSS-SPE DTRA Surface A4 sp2 45m SW
DT015	GNZ	4873	N99277 123456	37.2208	-116.0611	1.5219	NNSS-SPE DTRA Surface A4 sp2 45m SW
DT015	FNZ	4874	A142913 123456	37.2208	-116.0611	1.5219	NNSS-SPE DTRA Surface A4 sp2 45m SW
DT015	FNZ	4875	A142913 123456	37.2208	-116.0611	1.5219	NNSS-SPE DTRA Surface A4 sp2 45m SW
DT015	FNZ	4876	A142913 123456	37.2208	-116.0611	1.5219	NNSS-SPE DTRA Surface A4 sp2 45m SW
DT016	FNZ	4877	N3-337 123456	37.2207	-116.0612	1.5213	NNSS-SPE DTRA Surface A3 sp2 60m SW
DT016	GNZ	4878	V6411 123456	37.2207	-116.0612	1.5213	NNSS-SPE DTRA Surface A3 sp2 60m SW

Appendix 7
Selected Metadata for SPE-6 Surface Stations

Station ID	Channel	Channel ID	Description	Estimated Latitude	Estimated Longitude	Elevation km (amsl)	Location
DT016	FNZ	4879	A131575 123456	37.2207	-116.0612	1.5213	NNSS-SPE DTRA Surface A3 sp2 60m SW
DT016	FNZ	4880	A131575 123456	37.2207	-116.0612	1.5213	NNSS-SPE DTRA Surface A3 sp2 60m SW
DT016	FNZ	4881	A131575 123456	37.2207	-116.0612	1.5213	NNSS-SPE DTRA Surface A3 sp2 60m SW
DT017	FNZ	4882	X01650 123456	37.2206	-116.0612	1.5221	NNSS-SPE DTRA Surface A2 sp2 75m SW
DT017	GNZ	4883	X01650 123456	37.2206	-116.0612	1.5221	NNSS-SPE DTRA Surface A2 sp2 75m SW
DT017	FNZ	4884	A131550 123456	37.2206	-116.0612	1.5221	NNSS-SPE DTRA Surface A2 sp2 75m SW
DT017	FNZ	4885	A131550 123456	37.2206	-116.0612	1.5221	NNSS-SPE DTRA Surface A2 sp2 75m SW
DT017	FNZ	4886	A131550 123456	37.2206	-116.0612	1.5221	NNSS-SPE DTRA Surface A2 sp2 75m SW
DT018	FNZ	4887	X01647 123456	37.2205	-116.0613	1.5229	NNSS-SPE DTRA Surface A1 sp2 90m SW
DT018	GNZ	4888	X01647 123456	37.2205	-116.0613	1.5229	NNSS-SPE DTRA Surface A1 sp2 90m SW
DT018	FNZ	4889	A131619 123456	37.2205	-116.0613	1.5229	NNSS-SPE DTRA Surface A1 sp2 90m SW
DT018	FNZ	4890	A131619 123456	37.2205	-116.0613	1.5229	NNSS-SPE DTRA Surface A1 sp2 90m SW
DT018	FNZ	4891	A131619 123456	37.2205	-116.0613	1.5229	NNSS-SPE DTRA Surface A1 sp2 90m SW
SL001	CNZ	4932	B19869 123456	37.2212	-116.0609	1.5247	NNSS-SPE Sandia NL surface 01 sp1
SL002	CNZ	4933	B19872 123456	37.2211	-116.0609	1.5246	NNSS-SPE Sandia NL surface 02 sp1
SL003	CNZ	4934	3B20491 123456	37.2210	-116.0610	1.5246	NNSS-SPE Sandia NL surface 03 sp1
SL004	CNZ	4935	B20404 123456	37.2210	-116.0610	1.5245	NNSS-SPE Sandia NL surface 04 sp1
SL005	CNZ	4936	5B19868 123456	37.2209	-116.0611	1.5224	NNSS-SPE Sandia NL surface 05 sp1
SL006	CNZ	4937	B20510 123456	37.2208	-116.0611	1.5222	NNSS-SPE Sandia NL surface 06 sp1
SL007	CNZ	4938	B20491 123456	37.2210	-116.0610	1.5243	NNSS-SPE Sandia NL surface A5 sp2 30m SW
SL007	GNZ	4939	V6408 123456	37.2210	-116.0610	1.5243	NNSS-SPE Sandia NL surface A5 sp2 30m SW
SL007	FNZ	4940	A131532 223456	37.2210	-116.0610	1.5243	NNSS-SPE Sandia NL surface A5 sp2 30m SW
SL007	FNZ	4941	A131532 223456	37.2210	-116.0610	1.5243	NNSS-SPE Sandia NL surface A5 sp2 30m SW
SL007	FNZ	4942	A131532 223456	37.2210	-116.0610	1.5243	NNSS-SPE Sandia NL surface A5 sp2 30m SW
SL008	CNZ	4943	B20510 123456	37.2211	-116.0609	1.5244	NNSS-SPE Sandia NL surface A6 sp2 15m SW
SL008	GNZ	4944	B20510 123456	37.2211	-116.0609	1.5244	NNSS-SPE Sandia NL surface A6 sp2 15m SW
SL008	GNZ_dt	4945	X01644 123456	37.2211	-116.0609	1.5244	NNSS-SPE Sandia NL surface A6 sp2 15m SW
SL008	FNZ	4946	A131555 123456	37.2211	-116.0609	1.5244	NNSS-SPE Sandia NL surface A6 sp2 15m SW
SL008	FNZ	4947	A134476 123456	37.2211	-116.0609	1.5244	NNSS-SPE Sandia NL surface A6 sp2 15m SW
SL008	FNZ	4948	A134476 123456	37.2211	-116.0609	1.5244	NNSS-SPE Sandia NL surface A6 sp2 15m SW
SL009	CNZ	4949	B19872 123456	37.2213	-116.0608	1.5246	NNSS-SPE Sandia NL surface A7 sp2 15m NE

Appendix 7
Selected Metadata for SPE-6 Surface Stations

Station ID	Channel	Channel ID	Description	Estimated Latitude	Estimated Longitude	Elevation km (amsl)	Location
SL009	GNZ	4950	M98167 123456	37.2213	-116.0608	1.5246	NNSS-SPE Sandia NL surface A7 sp2 15m NE
SL009	FNZ	4951	A131539 223456	37.2213	-116.0608	1.5246	NNSS-SPE Sandia NL surface A7 sp2 15m NE
SL009	FNZ	4952	A131539 223456	37.2213	-116.0608	1.5246	NNSS-SPE Sandia NL surface A7 sp2 15m NE
SL009	FNZ	4953	A131539 223456	37.2213	-116.0608	1.5246	NNSS-SPE Sandia NL surface A7 sp2 15m NE
SL010	CNZ	4954	B20404 123456	37.2213	-116.0610	1.5251	NNSS-SPE Sandia NL surface A10 sp2 15m NW
SL010	GNZ	4955	B19868 123456	37.2213	-116.0610	1.5251	NNSS-SPE Sandia NL surface A10 sp2 15m NW
SL010	GNZ_dt	4956	V6410 123456	37.2213	-116.0610	1.5251	NNSS-SPE Sandia NL surface A10 sp2 15m NW
SL010	FNZ	4957	A131628 223456	37.2213	-116.0610	1.5251	NNSS-SPE Sandia NL surface A10 sp2 15m NW
SL010	FNZ	4958	A131628 223456	37.2213	-116.0610	1.5251	NNSS-SPE Sandia NL surface A10 sp2 15m NW
SL010	FNZ	4959	A131628 223456	37.2213	-116.0610	1.5251	NNSS-SPE Sandia NL surface A10 sp2 15m NW
SL011	CNZ	4960	B19869 123456	37.2212	-116.0607	1.5244	NNSS-SPE Sandia NL surface A11 sp2 15m SE
SL011	GNZ	4961	Z98095 123456	37.2212	-116.0607	1.5244	NNSS-SPE Sandia NL surface A11 sp2 15m SE
SL011	FNZ	4962	A142914 223456	37.2212	-116.0607	1.5244	NNSS-SPE Sandia NL surface A11 sp2 15m SE
SL011	FNZ	4963	A142914 223456	37.2212	-116.0607	1.5244	NNSS-SPE Sandia NL surface A11 sp2 15m SE
SL012	CNZ	4964	B19868 123456	37.2211	-116.0606	1.5222	NNSS-SPE Sandia NL surface A12 30m SE
SL012	GNZ	4965	X01646 123456	37.2211	-116.0606	1.5222	NNSS-SPE Sandia NL surface A12 30m SE
SL012	FNZ	4966	A131630 223456	37.2211	-116.0606	1.5222	NNSS-SPE Sandia NL surface A12 30m SE
SL012	FNZ	4967	A131630 223456	37.2211	-116.0606	1.5222	NNSS-SPE Sandia NL surface A12 30m SE
SL012	FNZ	4968	A131630 223456	37.2211	-116.0606	1.5222	NNSS-SPE Sandia NL surface A12 30m SE
SPE Seismic Lines							
L1001	CLZ	180	83 9DAD	37.2221	-116.0610	1.5290	NNSS-SPE Line 1 site 01
L1001	CLZ	181	83 9DAD	37.2221	-116.0610	1.5290	NNSS-SPE Line 1 site 01
L1001	CLZ	182	83 9DAD	37.2221	-116.0610	1.5290	NNSS-SPE Line 1 site 01
L1001	CLZ	183	83 9DAD	37.2221	-116.0610	1.5290	NNSS-SPE Line 1 site 01
L1001	CLZ	184	83 9DAD	37.2221	-116.0610	1.5290	NNSS-SPE Line 1 site 01
L1001	CLZ	185	83 9DAD	37.2221	-116.0610	1.5290	NNSS-SPE Line 1 site 01
L1001	CLZ	186	83 9DAD	37.2221	-116.0610	1.5290	NNSS-SPE Line 1 site 01
L1001	CLZ	187	83 9DE8	37.2221	-116.0610	1.5290	NNSS-SPE Line 1 site 01
L1001	CLR	188	83 9DE8	37.2221	-116.0610	1.5290	NNSS-SPE Line 1 site 01
L1001	CLT	189	83 9DE8	37.2221	-116.0610	1.5290	NNSS-SPE Line 1 site 01
L1001	CLZ	190	83 9DE8	37.2221	-116.0610	1.5290	NNSS-SPE Line 1 site 01

Appendix 7
Selected Metadata for SPE-6 Surface Stations

Station ID	Channel	Channel ID	Description	Estimated Latitude	Estimated Longitude	Elevation km (amsl)	Location
L1001	CLR	191	83 9DE8	37.2221	-116.0610	1.5290	NNSS-SPE Line 1 site 01
L1001	CLT	192	83 9DE8	37.2221	-116.0610	1.5290	NNSS-SPE Line 1 site 01
L1001	CLZ	193	83 9DE8	37.2221	-116.0610	1.5290	NNSS-SPE Line 1 site 01
L1001	CLR	194	83 9DE8	37.2221	-116.0610	1.5290	NNSS-SPE Line 1 site 01
L1001	CLT	195	83 9DE8	37.2221	-116.0610	1.5290	NNSS-SPE Line 1 site 01
L1001	CLZ	196	83 B3B0	37.2221	-116.0610	1.5290	NNSS-SPE Line 1 site 01
L1001	CLR	197	83 B3B0	37.2221	-116.0610	1.5290	NNSS-SPE Line 1 site 01
L1001	CLT	198	83 B3B0	37.2221	-116.0610	1.5290	NNSS-SPE Line 1 site 01
L1001	CLZ	199	83 B3B0	37.2221	-116.0610	1.5290	NNSS-SPE Line 1 site 01
L1001	CLR	200	83 B3B0	37.2221	-116.0610	1.5290	NNSS-SPE Line 1 site 01
L1001	CLT	201	83 B3B0	37.2221	-116.0610	1.5290	NNSS-SPE Line 1 site 01
L1001	CLZ	202	83 D1C7	37.2221	-116.0610	1.5290	NNSS-SPE Line 1 site 01
L1001	CLR	203	83 D1C7	37.2221	-116.0610	1.5290	NNSS-SPE Line 1 site 01
L1001	CLT	204	83 D1C7	37.2221	-116.0610	1.5290	NNSS-SPE Line 1 site 01
L1001	CNZ	205	4975 D1C7	37.2221	-116.0610	1.5290	NNSS-SPE Line 1 site 01
L1001	CNR	206	4975 D1C7	37.2221	-116.0610	1.5290	NNSS-SPE Line 1 site 01
L1001	CNT	207	4975 D1C7	37.2221	-116.0610	1.5290	NNSS-SPE Line 1 site 01
L1001	CLZ	208	83 D1C7	37.2221	-116.0610	1.5290	NNSS-SPE Line 1 site 01
L1001	CLR	209	83 D1C7	37.2221	-116.0610	1.5290	NNSS-SPE Line 1 site 01
L1001	CLT	210	83 D1C7	37.2221	-116.0610	1.5290	NNSS-SPE Line 1 site 01
L1001	CNZ	211	4975 D1C7	37.2221	-116.0610	1.5290	NNSS-SPE Line 1 site 01
L1001	CNR	212	4975 D1C7	37.2221	-116.0610	1.5290	NNSS-SPE Line 1 site 01
L1001	CNT	213	4975 D1C7	37.2221	-116.0610	1.5290	NNSS-SPE Line 1 site 01
L1001	CLZ	214	83 D1C7	37.2221	-116.0610	1.5290	NNSS-SPE Line 1 site 01
L1001	CLR	215	83 D1C7	37.2221	-116.0610	1.5290	NNSS-SPE Line 1 site 01
L1001	CLT	216	83 D1C7	37.2221	-116.0610	1.5290	NNSS-SPE Line 1 site 01
L1001	CLZ	217	83 D1C7	37.2221	-116.0610	1.5290	NNSS-SPE Line 1 site 01
L1001	CLR	218	83 D1C7	37.2221	-116.0610	1.5290	NNSS-SPE Line 1 site 01
L1001	CLT	219	83 D1C7	37.2221	-116.0610	1.5290	NNSS-SPE Line 1 site 01
L1001	CNZ	220	4975 D1C7	37.2221	-116.0610	1.5290	NNSS-SPE Line 1 site 01
L1001	CNR	221	4975 D1C7	37.2221	-116.0610	1.5290	NNSS-SPE Line 1 site 01

Appendix 7
Selected Metadata for SPE-6 Surface Stations

Station ID	Channel	Channel ID	Description	Estimated Latitude	Estimated Longitude	Elevation km (amsl)	Location
L1001	CNT	222	4975 D1C7	37.2221	-116.0610	1.5290	NNSS-SPE Line 1 site 01
L1001	CLZ	223	83 D163	37.2221	-116.0610	1.5290	NNSS-SPE Line 1 site 01
L1001	CLR	224	83 D163	37.2221	-116.0610	1.5290	NNSS-SPE Line 1 site 01
L1001	CLT	225	83 D163	37.2221	-116.0610	1.5290	NNSS-SPE Line 1 site 01
L1001	CNZ	226	4975 D163	37.2221	-116.0610	1.5290	NNSS-SPE Line 1 site 01
L1001	CNR	227	4975 D163	37.2221	-116.0610	1.5290	NNSS-SPE Line 1 site 01
L1001	CNT	228	4975 D163	37.2221	-116.0610	1.5290	NNSS-SPE Line 1 site 01
L1002	CLZ	229	6 9DAD	37.2230	-116.0611	1.5370	NNSS-SPE Line 1 site 02
L1002	CLZ	230	6 9DAD	37.2230	-116.0611	1.5370	NNSS-SPE Line 1 site 02
L1002	CLZ	231	6 9DAD	37.2230	-116.0611	1.5370	NNSS-SPE Line 1 site 02
L1002	CLZ	232	6 9DAD	37.2230	-116.0611	1.5370	NNSS-SPE Line 1 site 02
L1002	CLZ	233	6 9DAD	37.2230	-116.0611	1.5370	NNSS-SPE Line 1 site 02
L1002	CLZ	234	6 9DAD	37.2230	-116.0611	1.5370	NNSS-SPE Line 1 site 02
L1002	CLZ	235	6 9DAD	37.2230	-116.0611	1.5370	NNSS-SPE Line 1 site 02
L1002	CLZ	236	6 9DE8	37.2230	-116.0611	1.5370	NNSS-SPE Line 1 site 02
L1002	CLR	237	6 9DE8	37.2230	-116.0611	1.5370	NNSS-SPE Line 1 site 02
L1002	CLT	238	6 9DE8	37.2230	-116.0611	1.5370	NNSS-SPE Line 1 site 02
L1002	CLZ	239	67 9DE8	37.2230	-116.0611	1.5370	NNSS-SPE Line 1 site 02
L1002	CLR	240	67 9DE8	37.2230	-116.0611	1.5370	NNSS-SPE Line 1 site 02
L1002	CLT	241	67 9DE8	37.2230	-116.0611	1.5370	NNSS-SPE Line 1 site 02
L1002	CLZ	242	67 9DE8	37.2230	-116.0611	1.5370	NNSS-SPE Line 1 site 02
L1002	CLR	243	67 9DE8	37.2230	-116.0611	1.5370	NNSS-SPE Line 1 site 02
L1002	CLT	244	67 9DE8	37.2230	-116.0611	1.5370	NNSS-SPE Line 1 site 02
L1002	CLZ	245	67 B3B0	37.2230	-116.0611	1.5370	NNSS-SPE Line 1 site 02
L1002	CLR	246	67 B3B0	37.2230	-116.0611	1.5370	NNSS-SPE Line 1 site 02
L1002	CLT	247	67 B3B0	37.2230	-116.0611	1.5370	NNSS-SPE Line 1 site 02
L1002	CLZ	248	67 B3B0	37.2230	-116.0611	1.5370	NNSS-SPE Line 1 site 02
L1002	CLR	249	67 B3B0	37.2230	-116.0611	1.5370	NNSS-SPE Line 1 site 02
L1002	CLT	250	67 B3B0	37.2230	-116.0611	1.5370	NNSS-SPE Line 1 site 02
L1002	CNZ	251	167 B3B0	37.2230	-116.0611	1.5370	NNSS-SPE Line 1 site 02
L1002	CNR	252	167 B3B0	37.2230	-116.0611	1.5370	NNSS-SPE Line 1 site 02

Appendix 7
Selected Metadata for SPE-6 Surface Stations

Station ID	Channel	Channel ID	Description	Estimated Latitude	Estimated Longitude	Elevation km (amsl)	Location
L1002	CNT	253	167 B3B0	37.2230	-116.0611	1.5370	NNSS-SPE Line 1 site 02
L1002	CLZ	254	67 B3B0	37.2230	-116.0611	1.5370	NNSS-SPE Line 1 site 02
L1002	CLR	255	67 B3B0	37.2230	-116.0611	1.5370	NNSS-SPE Line 1 site 02
L1002	CLT	256	67 B3B0	37.2230	-116.0611	1.5370	NNSS-SPE Line 1 site 02
L1002	CNZ	257	167 B3B0	37.2230	-116.0611	1.5370	NNSS-SPE Line 1 site 02
L1002	CNR	258	167 B3B0	37.2230	-116.0611	1.5370	NNSS-SPE Line 1 site 02
L1002	CNT	259	167 B3B0	37.2230	-116.0611	1.5370	NNSS-SPE Line 1 site 02
L1002	CLZ	260	67 B3B0	37.2230	-116.0611	1.5370	NNSS-SPE Line 1 site 02
L1002	CLR	261	67 B3B0	37.2230	-116.0611	1.5370	NNSS-SPE Line 1 site 02
L1002	CLT	262	67 B3B0	37.2230	-116.0611	1.5370	NNSS-SPE Line 1 site 02
L1002	CLZ	263	67 B3B0	37.2230	-116.0611	1.5370	NNSS-SPE Line 1 site 02
L1002	CLR	264	67 B3B0	37.2230	-116.0611	1.5370	NNSS-SPE Line 1 site 02
L1002	CLT	265	67 B3B0	37.2230	-116.0611	1.5370	NNSS-SPE Line 1 site 02
L1002	CNZ	266	167 B3B0	37.2230	-116.0611	1.5370	NNSS-SPE Line 1 site 02
L1002	CNR	267	167 B3B0	37.2230	-116.0611	1.5370	NNSS-SPE Line 1 site 02
L1002	CNT	268	167 B3B0	37.2230	-116.0611	1.5370	NNSS-SPE Line 1 site 02
L1002	CLZ	269	67 B3B0	37.2230	-116.0611	1.5370	NNSS-SPE Line 1 site 02
L1002	CLR	270	67 B3B0	37.2230	-116.0611	1.5370	NNSS-SPE Line 1 site 02
L1002	CLT	271	67 B3B0	37.2230	-116.0611	1.5370	NNSS-SPE Line 1 site 02
L1003	CLZ	272	108 9DAD	37.2239	-116.0611	1.5400	NNSS-SPE Line 1 site 03
L1003	CLZ	273	108 9DAD	37.2239	-116.0611	1.5400	NNSS-SPE Line 1 site 03
L1003	CLZ	274	108 9DAD	37.2239	-116.0611	1.5400	NNSS-SPE Line 1 site 03
L1003	CLZ	275	108 9DAD	37.2239	-116.0611	1.5400	NNSS-SPE Line 1 site 03
L1003	CLZ	276	108 9DAD	37.2239	-116.0611	1.5400	NNSS-SPE Line 1 site 03
L1003	CLZ	277	108 9DAD	37.2239	-116.0611	1.5400	NNSS-SPE Line 1 site 03
L1003	CLZ	278	108 9DAD	37.2239	-116.0611	1.5400	NNSS-SPE Line 1 site 03
L1003	CLZ	279	108 9DAD	37.2239	-116.0611	1.5400	NNSS-SPE Line 1 site 03
L1003	CLR	280	108 9DAD	37.2239	-116.0611	1.5400	NNSS-SPE Line 1 site 03
L1003	CLT	281	108 9DAD	37.2239	-116.0611	1.5400	NNSS-SPE Line 1 site 03
L1003	CLZ	282	108 9DAD	37.2239	-116.0611	1.5400	NNSS-SPE Line 1 site 03
L1003	CLR	283	108 9DAD	37.2239	-116.0611	1.5400	NNSS-SPE Line 1 site 03

Appendix 7
Selected Metadata for SPE-6 Surface Stations

Station ID	Channel	Channel ID	Description	Estimated Latitude	Estimated Longitude	Elevation km (amsl)	Location
L1003	CLT	284	108 9DAD	37.2239	-116.0611	1.5400	NNSS-SPE Line 1 site 03
L1003	CLZ	285	108 9DAD	37.2239	-116.0611	1.5400	NNSS-SPE Line 1 site 03
L1003	CLR	286	108 9DAD	37.2239	-116.0611	1.5400	NNSS-SPE Line 1 site 03
L1003	CLT	287	108 9DAD	37.2239	-116.0611	1.5400	NNSS-SPE Line 1 site 03
L1003	CLZ	288	108 9DAD	37.2239	-116.0611	1.5400	NNSS-SPE Line 1 site 03
L1003	CLR	289	108 9DAD	37.2239	-116.0611	1.5400	NNSS-SPE Line 1 site 03
L1003	CLT	290	108 9DAD	37.2239	-116.0611	1.5400	NNSS-SPE Line 1 site 03
L1003	CLZ	291	108 BCE7	37.2239	-116.0611	1.5400	NNSS-SPE Line 1 site 03
L1003	CLR	292	108 BCE7	37.2239	-116.0611	1.5400	NNSS-SPE Line 1 site 03
L1003	CLT	293	108 BCE7	37.2239	-116.0611	1.5400	NNSS-SPE Line 1 site 03
L1003	CLZ	294	225358-28 BCE7	37.2239	-116.0611	1.5400	NNSS-SPE Line 1 site 03
L1003	CLR	295	225358-28 BCE7	37.2239	-116.0611	1.5400	NNSS-SPE Line 1 site 03
L1003	CLT	296	225358-28 BCE7	37.2239	-116.0611	1.5400	NNSS-SPE Line 1 site 03
L1003	CLZ	297	225358-28 D19D	37.2239	-116.0611	1.5400	NNSS-SPE Line 1 site 03
L1003	CLR	298	225358-28 D19D	37.2239	-116.0611	1.5400	NNSS-SPE Line 1 site 03
L1003	CLT	299	225358-28 D19D	37.2239	-116.0611	1.5400	NNSS-SPE Line 1 site 03
L1003	CNZ	300	174 D19D	37.2239	-116.0611	1.5400	NNSS-SPE Line 1 site 03
L1003	CNR	301	174 D19D	37.2239	-116.0611	1.5400	NNSS-SPE Line 1 site 03
L1003	CNT	302	174 D19D	37.2239	-116.0611	1.5400	NNSS-SPE Line 1 site 03
L1003	CLZ	303	225358-28 D19D	37.2239	-116.0611	1.5400	NNSS-SPE Line 1 site 03
L1003	CLR	304	225358-28 D19D	37.2239	-116.0611	1.5400	NNSS-SPE Line 1 site 03
L1003	CLT	305	225358-28 D19D	37.2239	-116.0611	1.5400	NNSS-SPE Line 1 site 03
L1003	CNZ	306	174 D19D	37.2239	-116.0611	1.5400	NNSS-SPE Line 1 site 03
L1003	CNR	307	174 D19D	37.2239	-116.0611	1.5400	NNSS-SPE Line 1 site 03
L1003	CNT	308	174 D19D	37.2239	-116.0611	1.5400	NNSS-SPE Line 1 site 03
L1003	CLZ	309	225358-28 D19D	37.2239	-116.0611	1.5400	NNSS-SPE Line 1 site 03
L1003	CLR	310	225358-28 D19D	37.2239	-116.0611	1.5400	NNSS-SPE Line 1 site 03
L1003	CLT	311	225358-28 D19D	37.2239	-116.0611	1.5400	NNSS-SPE Line 1 site 03
L1003	CLZ	312	225358-28 D19D	37.2239	-116.0611	1.5400	NNSS-SPE Line 1 site 03
L1003	CLR	313	225358-28 D19D	37.2239	-116.0611	1.5400	NNSS-SPE Line 1 site 03
L1003	CLT	314	225358-28 D19D	37.2239	-116.0611	1.5400	NNSS-SPE Line 1 site 03

Appendix 7
Selected Metadata for SPE-6 Surface Stations

Station ID	Channel	Channel ID	Description	Estimated Latitude	Estimated Longitude	Elevation km (amsl)	Location
L1003	CNZ	315	174 D19D	37.2239	-116.0611	1.5400	NNSS-SPE Line 1 site 03
L1003	CNR	316	174 D19D	37.2239	-116.0611	1.5400	NNSS-SPE Line 1 site 03
L1003	CNT	317	174 D19D	37.2239	-116.0611	1.5400	NNSS-SPE Line 1 site 03
L1003	CLZ	318	225358-28 D19D	37.2239	-116.0611	1.5400	NNSS-SPE Line 1 site 03
L1003	CLR	319	225358-28 D19D	37.2239	-116.0611	1.5400	NNSS-SPE Line 1 site 03
L1003	CLT	320	225358-28 D19D	37.2239	-116.0611	1.5400	NNSS-SPE Line 1 site 03
L1003	CNZ	321	174 D19D	37.2239	-116.0611	1.5400	NNSS-SPE Line 1 site 03
L1003	CNR	322	174 D19D	37.2239	-116.0611	1.5400	NNSS-SPE Line 1 site 03
L1003	CNT	323	174 D19D	37.2239	-116.0611	1.5400	NNSS-SPE Line 1 site 03
L1004	CLZ	324	111 9DAD	37.2248	-116.0612	1.5370	NNSS-SPE Line 1 site 04
L1004	CLR	325	111 9DAD	37.2248	-116.0612	1.5370	NNSS-SPE Line 1 site 04
L1004	CLT	326	111 9DAD	37.2248	-116.0612	1.5370	NNSS-SPE Line 1 site 04
L1004	CLZ	327	111 9DAD	37.2248	-116.0612	1.5370	NNSS-SPE Line 1 site 04
L1004	CLR	328	111 9DAD	37.2248	-116.0612	1.5370	NNSS-SPE Line 1 site 04
L1004	CLT	329	111 9DAD	37.2248	-116.0612	1.5370	NNSS-SPE Line 1 site 04
L1004	CLZ	330	111 9DAD	37.2248	-116.0612	1.5370	NNSS-SPE Line 1 site 04
L1004	CLR	331	111 9DAD	37.2248	-116.0612	1.5370	NNSS-SPE Line 1 site 04
L1004	CLT	332	111 9DAD	37.2248	-116.0612	1.5370	NNSS-SPE Line 1 site 04
L1004	CLZ	333	111 9DAD	37.2248	-116.0612	1.5370	NNSS-SPE Line 1 site 04
L1004	CLR	334	111 9DAD	37.2248	-116.0612	1.5370	NNSS-SPE Line 1 site 04
L1004	CLT	335	111 9DAD	37.2248	-116.0612	1.5370	NNSS-SPE Line 1 site 04
L1004	CLZ	336	111 9DAD	37.2248	-116.0612	1.5370	NNSS-SPE Line 1 site 04
L1004	CLR	337	111 9DAD	37.2248	-116.0612	1.5370	NNSS-SPE Line 1 site 04
L1004	CLT	338	111 9DAD	37.2248	-116.0612	1.5370	NNSS-SPE Line 1 site 04
L1004	CLZ	339	111 9DAD	37.2248	-116.0612	1.5370	NNSS-SPE Line 1 site 04
L1004	CLR	340	111 9DAD	37.2248	-116.0612	1.5370	NNSS-SPE Line 1 site 04
L1004	CLT	341	111 9DAD	37.2248	-116.0612	1.5370	NNSS-SPE Line 1 site 04
L1004	CLZ	342	111 9DAD	37.2248	-116.0612	1.5370	NNSS-SPE Line 1 site 04
L1004	CLR	343	111 9DAD	37.2248	-116.0612	1.5370	NNSS-SPE Line 1 site 04
L1004	CLT	344	111 9DAD	37.2248	-116.0612	1.5370	NNSS-SPE Line 1 site 04
L1004	CLZ	345	111 9DAD	37.2248	-116.0612	1.5370	NNSS-SPE Line 1 site 04

Appendix 7
Selected Metadata for SPE-6 Surface Stations

Station ID	Channel	Channel ID	Description	Estimated Latitude	Estimated Longitude	Elevation km (amsl)	Location
L1004	CLR	346	111 9DAD	37.2248	-116.0612	1.5370	NNSS-SPE Line 1 site 04
L1004	CLT	347	111 9DAD	37.2248	-116.0612	1.5370	NNSS-SPE Line 1 site 04
L1004	CLZ	348	111 9DAD	37.2248	-116.0612	1.5370	NNSS-SPE Line 1 site 04
L1004	CLR	349	111 9DAD	37.2248	-116.0612	1.5370	NNSS-SPE Line 1 site 04
L1004	CLT	350	111 9DAD	37.2248	-116.0612	1.5370	NNSS-SPE Line 1 site 04
L1004	CLZ	351	111 9DAD	37.2248	-116.0612	1.5370	NNSS-SPE Line 1 site 04
L1004	CLR	352	111 9DAD	37.2248	-116.0612	1.5370	NNSS-SPE Line 1 site 04
L1004	CLT	353	111 9DAD	37.2248	-116.0612	1.5370	NNSS-SPE Line 1 site 04
L1004	CLZ	354	111 BCE7	37.2248	-116.0612	1.5370	NNSS-SPE Line 1 site 04
L1004	CLR	355	111 BCE7	37.2248	-116.0612	1.5370	NNSS-SPE Line 1 site 04
L1004	CLT	356	111 BCE7	37.2248	-116.0612	1.5370	NNSS-SPE Line 1 site 04
L1004	CLZ	357	111 BCE7	37.2248	-116.0612	1.5370	NNSS-SPE Line 1 site 04
L1004	CLR	358	111 BCE7	37.2248	-116.0612	1.5370	NNSS-SPE Line 1 site 04
L1004	CLT	359	111 BCE7	37.2248	-116.0612	1.5370	NNSS-SPE Line 1 site 04
L1004	CLZ	360	111 BCE7	37.2248	-116.0612	1.5370	NNSS-SPE Line 1 site 04
L1004	CLR	361	111 BCE7	37.2248	-116.0612	1.5370	NNSS-SPE Line 1 site 04
L1004	CLT	362	111 BCE7	37.2248	-116.0612	1.5370	NNSS-SPE Line 1 site 04
L1004	CLZ	363	111 BCE7	37.2248	-116.0612	1.5370	NNSS-SPE Line 1 site 04
L1004	CLR	364	111 BCE7	37.2248	-116.0612	1.5370	NNSS-SPE Line 1 site 04
L1004	CLT	365	111 BCE7	37.2248	-116.0612	1.5370	NNSS-SPE Line 1 site 04
L1004	CLZ	366	111 BCE7	37.2248	-116.0612	1.5370	NNSS-SPE Line 1 site 04
L1004	CLR	367	111 BCE7	37.2248	-116.0612	1.5370	NNSS-SPE Line 1 site 04
L1004	CLT	368	111 BCE7	37.2248	-116.0612	1.5370	NNSS-SPE Line 1 site 04
L1004	CLZ	369	111 BCE7	37.2248	-116.0612	1.5370	NNSS-SPE Line 1 site 04
L1004	CLR	370	111 BCE7	37.2248	-116.0612	1.5370	NNSS-SPE Line 1 site 04
L1004	CLT	371	111 BCE7	37.2248	-116.0612	1.5370	NNSS-SPE Line 1 site 04
L1005	CLZ	372	5 9318	37.2257	-116.0613	1.5500	NNSS-SPE Line 1 site 05
L1005	CLZ	373	5 9318	37.2257	-116.0613	1.5500	NNSS-SPE Line 1 site 05
L1005	CLZ	374	5 9318	37.2257	-116.0613	1.5500	NNSS-SPE Line 1 site 05
L1005	CLZ	375	5 9318	37.2257	-116.0613	1.5500	NNSS-SPE Line 1 site 05
L1005	CLZ	376	5 9318	37.2257	-116.0613	1.5500	NNSS-SPE Line 1 site 05

Appendix 7
Selected Metadata for SPE-6 Surface Stations

Station ID	Channel	Channel ID	Description	Estimated Latitude	Estimated Longitude	Elevation km (amsl)	Location
L1005	CLZ	377	5 9318	37.2257	-116.0613	1.5500	NNSS-SPE Line 1 site 05
L1005	CLZ	378	5 9318	37.2257	-116.0613	1.5500	NNSS-SPE Line 1 site 05
L1005	CLZ	379	5 9E34	37.2257	-116.0613	1.5500	NNSS-SPE Line 1 site 05
L1005	CLR	380	5 9E34	37.2257	-116.0613	1.5500	NNSS-SPE Line 1 site 05
L1005	CLT	381	5 9E34	37.2257	-116.0613	1.5500	NNSS-SPE Line 1 site 05
L1005	CLZ	382	5 9E34	37.2257	-116.0613	1.5500	NNSS-SPE Line 1 site 05
L1005	CLR	383	5 9E34	37.2257	-116.0613	1.5500	NNSS-SPE Line 1 site 05
L1005	CLT	384	5 9E34	37.2257	-116.0613	1.5500	NNSS-SPE Line 1 site 05
L1005	CLZ	385	5 9E34	37.2257	-116.0613	1.5500	NNSS-SPE Line 1 site 05
L1005	CLR	386	5 9E34	37.2257	-116.0613	1.5500	NNSS-SPE Line 1 site 05
L1005	CLT	387	5 9E34	37.2257	-116.0613	1.5500	NNSS-SPE Line 1 site 05
L1005	CLZ	388	5 9E34	37.2257	-116.0613	1.5500	NNSS-SPE Line 1 site 05
L1005	CLR	389	5 9E34	37.2257	-116.0613	1.5500	NNSS-SPE Line 1 site 05
L1005	CLT	390	5 9E34	37.2257	-116.0613	1.5500	NNSS-SPE Line 1 site 05
L1005	CLZ	391	5 D14D	37.2257	-116.0613	1.5500	NNSS-SPE Line 1 site 05
L1005	CLR	392	5 D14D	37.2257	-116.0613	1.5500	NNSS-SPE Line 1 site 05
L1005	CLT	393	5 D14D	37.2257	-116.0613	1.5500	NNSS-SPE Line 1 site 05
L1005	CLZ	394	5 D14D	37.2257	-116.0613	1.5500	NNSS-SPE Line 1 site 05
L1005	CLR	395	5 D14D	37.2257	-116.0613	1.5500	NNSS-SPE Line 1 site 05
L1005	CLT	396	5 D14D	37.2257	-116.0613	1.5500	NNSS-SPE Line 1 site 05
L1005	CLZ	397	5 D14D	37.2257	-116.0613	1.5500	NNSS-SPE Line 1 site 05
L1005	CLR	398	5 D14D	37.2257	-116.0613	1.5500	NNSS-SPE Line 1 site 05
L1005	CLT	399	5 D14D	37.2257	-116.0613	1.5500	NNSS-SPE Line 1 site 05
L1005	CLZ	400	5 D14D	37.2257	-116.0613	1.5500	NNSS-SPE Line 1 site 05
L1005	CLR	401	5 D14D	37.2257	-116.0613	1.5500	NNSS-SPE Line 1 site 05
L1005	CLT	402	5 D14D	37.2257	-116.0613	1.5500	NNSS-SPE Line 1 site 05
L1005	CLZ	403	5 D14D	37.2257	-116.0613	1.5500	NNSS-SPE Line 1 site 05
L1005	CLR	404	5 D14D	37.2257	-116.0613	1.5500	NNSS-SPE Line 1 site 05
L1005	CLT	405	5 D14D	37.2257	-116.0613	1.5500	NNSS-SPE Line 1 site 05
L1006	CLZ	406	19 9318	37.2266	-116.0614	1.5580	NNSS-SPE Line 1 site 06
L1006	CLZ	407	19 9318	37.2266	-116.0614	1.5580	NNSS-SPE Line 1 site 06

Appendix 7
Selected Metadata for SPE-6 Surface Stations

Station ID	Channel	Channel ID	Description	Estimated Latitude	Estimated Longitude	Elevation km (amsl)	Location
L1006	CLZ	408	19 9318	37.2266	-116.0614	1.5580	NNSS-SPE Line 1 site 06
L1006	CLZ	409	19 9318	37.2266	-116.0614	1.5580	NNSS-SPE Line 1 site 06
L1006	CLZ	410	19 9318	37.2266	-116.0614	1.5580	NNSS-SPE Line 1 site 06
L1006	CLZ	411	19 9318	37.2266	-116.0614	1.5580	NNSS-SPE Line 1 site 06
L1006	CLZ	412	19 9318	37.2266	-116.0614	1.5580	NNSS-SPE Line 1 site 06
L1006	CLZ	413	76 9E34	37.2266	-116.0614	1.5580	NNSS-SPE Line 1 site 06
L1006	CLR	414	76 9E34	37.2266	-116.0614	1.5580	NNSS-SPE Line 1 site 06
L1006	CLT	415	76 9E34	37.2266	-116.0614	1.5580	NNSS-SPE Line 1 site 06
L1006	CLZ	416	76 9E34	37.2266	-116.0614	1.5580	NNSS-SPE Line 1 site 06
L1006	CLR	417	76 9E34	37.2266	-116.0614	1.5580	NNSS-SPE Line 1 site 06
L1006	CLT	418	76 9E34	37.2266	-116.0614	1.5580	NNSS-SPE Line 1 site 06
L1006	CLZ	419	76 9E34	37.2266	-116.0614	1.5580	NNSS-SPE Line 1 site 06
L1006	CLR	420	76 9E34	37.2266	-116.0614	1.5580	NNSS-SPE Line 1 site 06
L1006	CLT	421	76 9E34	37.2266	-116.0614	1.5580	NNSS-SPE Line 1 site 06
L1006	CLZ	422	225358-37 9E34	37.2266	-116.0614	1.5580	NNSS-SPE Line 1 site 06
L1006	CLR	423	225358-37 9E34	37.2266	-116.0614	1.5580	NNSS-SPE Line 1 site 06
L1006	CLT	424	225358-37 9E34	37.2266	-116.0614	1.5580	NNSS-SPE Line 1 site 06
L1006	CLZ	425	225358-37 D14D	37.2266	-116.0614	1.5580	NNSS-SPE Line 1 site 06
L1006	CLR	426	225358-37 D14D	37.2266	-116.0614	1.5580	NNSS-SPE Line 1 site 06
L1006	CLT	427	225358-37 D14D	37.2266	-116.0614	1.5580	NNSS-SPE Line 1 site 06
L1006	CLZ	428	225358-37 D14D	37.2266	-116.0614	1.5580	NNSS-SPE Line 1 site 06
L1006	CLR	429	225358-37 D14D	37.2266	-116.0614	1.5580	NNSS-SPE Line 1 site 06
L1006	CLT	430	225358-37 D14D	37.2266	-116.0614	1.5580	NNSS-SPE Line 1 site 06
L1006	CLZ	431	225358-37 D14D	37.2266	-116.0614	1.5580	NNSS-SPE Line 1 site 06
L1006	CLR	432	225358-37 D14D	37.2266	-116.0614	1.5580	NNSS-SPE Line 1 site 06
L1006	CLT	433	225358-37 D14D	37.2266	-116.0614	1.5580	NNSS-SPE Line 1 site 06
L1006	CLZ	434	225358-37 D14D	37.2266	-116.0614	1.5580	NNSS-SPE Line 1 site 06
L1006	CLR	435	225358-37 D14D	37.2266	-116.0614	1.5580	NNSS-SPE Line 1 site 06
L1006	CLT	436	225358-37 D14D	37.2266	-116.0614	1.5580	NNSS-SPE Line 1 site 06
L1007	CLZ	437	7 9318	37.2275	-116.0615	1.5590	NNSS-SPE Line 1 site 07
L1007	CLZ	438	7 9318	37.2275	-116.0615	1.5590	NNSS-SPE Line 1 site 07

Appendix 7
Selected Metadata for SPE-6 Surface Stations

Station ID	Channel	Channel ID	Description	Estimated Latitude	Estimated Longitude	Elevation km (amsl)	Location
L1007	CLZ	439	7 9318	37.2275	-116.0615	1.5590	NNSS-SPE Line 1 site 07
L1007	CLZ	440	7 9318	37.2275	-116.0615	1.5590	NNSS-SPE Line 1 site 07
L1007	CLZ	441	7 9318	37.2275	-116.0615	1.5590	NNSS-SPE Line 1 site 07
L1007	CLZ	442	7 9318	37.2275	-116.0615	1.5590	NNSS-SPE Line 1 site 07
L1007	CLZ	443	7 9318	37.2275	-116.0615	1.5590	NNSS-SPE Line 1 site 07
L1007	CLZ	444	7 9318	37.2275	-116.0615	1.5590	NNSS-SPE Line 1 site 07
L1007	CLR	445	7 9318	37.2275	-116.0615	1.5590	NNSS-SPE Line 1 site 07
L1007	CLT	446	7 9318	37.2275	-116.0615	1.5590	NNSS-SPE Line 1 site 07
L1007	CLZ	447	7 9318	37.2275	-116.0615	1.5590	NNSS-SPE Line 1 site 07
L1007	CLR	448	7 9318	37.2275	-116.0615	1.5590	NNSS-SPE Line 1 site 07
L1007	CLT	449	7 9318	37.2275	-116.0615	1.5590	NNSS-SPE Line 1 site 07
L1007	CLZ	450	7 B3AF	37.2275	-116.0615	1.5590	NNSS-SPE Line 1 site 07
L1007	CLR	451	7 B3AF	37.2275	-116.0615	1.5590	NNSS-SPE Line 1 site 07
L1007	CLT	452	7 B3AF	37.2275	-116.0615	1.5590	NNSS-SPE Line 1 site 07
L1007	CLZ	453	7 B3AF	37.2275	-116.0615	1.5590	NNSS-SPE Line 1 site 07
L1007	CLR	454	7 B3AF	37.2275	-116.0615	1.5590	NNSS-SPE Line 1 site 07
L1007	CLT	455	7 B3AF	37.2275	-116.0615	1.5590	NNSS-SPE Line 1 site 07
L1007	CLZ	456	7 B3AF	37.2275	-116.0615	1.5590	NNSS-SPE Line 1 site 07
L1007	CLR	457	7 B3AF	37.2275	-116.0615	1.5590	NNSS-SPE Line 1 site 07
L1007	CLT	458	7 B3AF	37.2275	-116.0615	1.5590	NNSS-SPE Line 1 site 07
L1007	CLZ	459	7 B3AF	37.2275	-116.0615	1.5590	NNSS-SPE Line 1 site 07
L1007	CLR	460	7 B3AF	37.2275	-116.0615	1.5590	NNSS-SPE Line 1 site 07
L1007	CLT	461	7 B3AF	37.2275	-116.0615	1.5590	NNSS-SPE Line 1 site 07
L1007	CLZ	462	7 B3AF	37.2275	-116.0615	1.5590	NNSS-SPE Line 1 site 07
L1007	CLR	463	7 B3AF	37.2275	-116.0615	1.5590	NNSS-SPE Line 1 site 07
L1007	CLT	464	7 B3AF	37.2275	-116.0615	1.5590	NNSS-SPE Line 1 site 07
L1007	CLZ	465	7 B3AF	37.2275	-116.0615	1.5590	NNSS-SPE Line 1 site 07
L1007	CLR	466	7 B3AF	37.2275	-116.0615	1.5590	NNSS-SPE Line 1 site 07
L1007	CLT	467	7 B3AF	37.2275	-116.0615	1.5590	NNSS-SPE Line 1 site 07
L1008	CLZ	468	82 9318	37.2284	-116.0616	1.5720	NNSS-SPE Line 1 site 08
L1008	CLR	469	82 9318	37.2284	-116.0616	1.5720	NNSS-SPE Line 1 site 08

Appendix 7
Selected Metadata for SPE-6 Surface Stations

Station ID	Channel	Channel ID	Description	Estimated Latitude	Estimated Longitude	Elevation km (amsl)	Location
L1008	CLT	470	82 9318	37.2284	-116.0616	1.5720	NNSS-SPE Line 1 site 08
L1008	CLZ	471	82 9318	37.2284	-116.0616	1.5720	NNSS-SPE Line 1 site 08
L1008	CLR	472	82 9318	37.2284	-116.0616	1.5720	NNSS-SPE Line 1 site 08
L1008	CLT	473	82 9318	37.2284	-116.0616	1.5720	NNSS-SPE Line 1 site 08
L1008	CLZ	474	82 9318	37.2284	-116.0616	1.5720	NNSS-SPE Line 1 site 08
L1008	CLR	475	82 9318	37.2284	-116.0616	1.5720	NNSS-SPE Line 1 site 08
L1008	CLT	476	82 9318	37.2284	-116.0616	1.5720	NNSS-SPE Line 1 site 08
L1008	CLZ	477	82 9318	37.2284	-116.0616	1.5720	NNSS-SPE Line 1 site 08
L1008	CLR	478	82 9318	37.2284	-116.0616	1.5720	NNSS-SPE Line 1 site 08
L1008	CLT	479	82 9318	37.2284	-116.0616	1.5720	NNSS-SPE Line 1 site 08
L1008	CLZ	480	82 9318	37.2284	-116.0616	1.5720	NNSS-SPE Line 1 site 08
L1008	CLR	481	82 9318	37.2284	-116.0616	1.5720	NNSS-SPE Line 1 site 08
L1008	CLT	482	82 9318	37.2284	-116.0616	1.5720	NNSS-SPE Line 1 site 08
L1008	CLZ	483	82 9318	37.2284	-116.0616	1.5720	NNSS-SPE Line 1 site 08
L1008	CLR	484	82 9318	37.2284	-116.0616	1.5720	NNSS-SPE Line 1 site 08
L1008	CLT	485	82 9318	37.2284	-116.0616	1.5720	NNSS-SPE Line 1 site 08
L1008	CLZ	486	82 9318	37.2284	-116.0616	1.5720	NNSS-SPE Line 1 site 08
L1008	CLR	487	82 9318	37.2284	-116.0616	1.5720	NNSS-SPE Line 1 site 08
L1008	CLT	488	82 9318	37.2284	-116.0616	1.5720	NNSS-SPE Line 1 site 08
L1008	CLZ	489	82 9318	37.2284	-116.0616	1.5720	NNSS-SPE Line 1 site 08
L1008	CLR	490	82 9318	37.2284	-116.0616	1.5720	NNSS-SPE Line 1 site 08
L1008	CLT	491	82 9318	37.2284	-116.0616	1.5720	NNSS-SPE Line 1 site 08
L1008	CLZ	492	82 9318	37.2284	-116.0616	1.5720	NNSS-SPE Line 1 site 08
L1008	CLR	493	82 9318	37.2284	-116.0616	1.5720	NNSS-SPE Line 1 site 08
L1008	CLT	494	82 9318	37.2284	-116.0616	1.5720	NNSS-SPE Line 1 site 08
L1008	CLZ	495	214830-07 B3AF	37.2284	-116.0616	1.5720	NNSS-SPE Line 1 site 08
L1008	CLR	496	214830-07 B3AF	37.2284	-116.0616	1.5720	NNSS-SPE Line 1 site 08
L1008	CLT	497	214830-07 B3AF	37.2284	-116.0616	1.5720	NNSS-SPE Line 1 site 08
L1008	CLZ	498	214830-07 B3AF	37.2284	-116.0616	1.5720	NNSS-SPE Line 1 site 08
L1008	CLR	499	214830-07 B3AF	37.2284	-116.0616	1.5720	NNSS-SPE Line 1 site 08
L1008	CLT	500	214830-07 B3AF	37.2284	-116.0616	1.5720	NNSS-SPE Line 1 site 08

Appendix 7
Selected Metadata for SPE-6 Surface Stations

Station ID	Channel	Channel ID	Description	Estimated Latitude	Estimated Longitude	Elevation km (amsl)	Location
L1008	CLZ	501	214830-07 B3AF	37.2284	-116.0616	1.5720	NNSS-SPE Line 1 site 08
L1008	CLR	502	214830-07 B3AF	37.2284	-116.0616	1.5720	NNSS-SPE Line 1 site 08
L1008	CLT	503	214830-07 B3AF	37.2284	-116.0616	1.5720	NNSS-SPE Line 1 site 08
L1008	CLZ	504	214830-07 B3AF	37.2284	-116.0616	1.5720	NNSS-SPE Line 1 site 08
L1008	CLR	505	214830-07 B3AF	37.2284	-116.0616	1.5720	NNSS-SPE Line 1 site 08
L1008	CLT	506	214830-07 B3AF	37.2284	-116.0616	1.5720	NNSS-SPE Line 1 site 08
L1008	CLZ	507	214830-07 B3AF	37.2284	-116.0616	1.5720	NNSS-SPE Line 1 site 08
L1008	CLR	508	214830-07 B3AF	37.2284	-116.0616	1.5720	NNSS-SPE Line 1 site 08
L1008	CLT	509	214830-07 B3AF	37.2284	-116.0616	1.5720	NNSS-SPE Line 1 site 08
L1008	CLZ	510	214830-07 B3AF	37.2284	-116.0616	1.5720	NNSS-SPE Line 1 site 08
L1008	CLR	511	214830-07 B3AF	37.2284	-116.0616	1.5720	NNSS-SPE Line 1 site 08
L1008	CLT	512	214830-07 B3AF	37.2284	-116.0616	1.5720	NNSS-SPE Line 1 site 08
L1009	CLZ	513	115 9504	37.2293	-116.0616	1.5890	NNSS-SPE Line 1 site 09
L1009	CLZ	514	115 9504	37.2293	-116.0616	1.5890	NNSS-SPE Line 1 site 09
L1009	CLZ	515	115 9504	37.2293	-116.0616	1.5890	NNSS-SPE Line 1 site 09
L1009	CLZ	516	115 9504	37.2293	-116.0616	1.5890	NNSS-SPE Line 1 site 09
L1009	CLZ	517	115 9504	37.2293	-116.0616	1.5890	NNSS-SPE Line 1 site 09
L1009	CLZ	518	115 9504	37.2293	-116.0616	1.5890	NNSS-SPE Line 1 site 09
L1009	CLZ	519	115 9504	37.2293	-116.0616	1.5890	NNSS-SPE Line 1 site 09
L1009	CLZ	520	115 B3D7	37.2293	-116.0616	1.5890	NNSS-SPE Line 1 site 09
L1009	CLR	521	115 B3D7	37.2293	-116.0616	1.5890	NNSS-SPE Line 1 site 09
L1009	CLT	522	115 B3D7	37.2293	-116.0616	1.5890	NNSS-SPE Line 1 site 09
L1009	CLZ	523	115 B3D7	37.2293	-116.0616	1.5890	NNSS-SPE Line 1 site 09
L1009	CLR	524	115 B3D7	37.2293	-116.0616	1.5890	NNSS-SPE Line 1 site 09
L1009	CLT	525	115 B3D7	37.2293	-116.0616	1.5890	NNSS-SPE Line 1 site 09
L1009	CLZ	526	115 B3D7	37.2293	-116.0616	1.5890	NNSS-SPE Line 1 site 09
L1009	CLR	527	115 B3D7	37.2293	-116.0616	1.5890	NNSS-SPE Line 1 site 09
L1009	CLT	528	115 B3D7	37.2293	-116.0616	1.5890	NNSS-SPE Line 1 site 09
L1009	CLZ	529	115 BCD2	37.2293	-116.0616	1.5890	NNSS-SPE Line 1 site 09
L1009	CLR	530	115 BCD2	37.2293	-116.0616	1.5890	NNSS-SPE Line 1 site 09
L1009	CLT	531	115 BCD2	37.2293	-116.0616	1.5890	NNSS-SPE Line 1 site 09

Appendix 7
Selected Metadata for SPE-6 Surface Stations

Station ID	Channel	Channel ID	Description	Estimated Latitude	Estimated Longitude	Elevation km (amsl)	Location
L1009	CLZ	532	225358-06 BCD2	37.2293	-116.0616	1.5890	NNSS-SPE Line 1 site 09
L1009	CLR	533	225358-06 BCD2	37.2293	-116.0616	1.5890	NNSS-SPE Line 1 site 09
L1009	CLT	534	225358-06 BCD2	37.2293	-116.0616	1.5890	NNSS-SPE Line 1 site 09
L1009	CLZ	535	225358-06 BCD2	37.2293	-116.0616	1.5890	NNSS-SPE Line 1 site 09
L1009	CLR	536	225358-06 BCD2	37.2293	-116.0616	1.5890	NNSS-SPE Line 1 site 09
L1009	CLT	537	225358-06 BCD2	37.2293	-116.0616	1.5890	NNSS-SPE Line 1 site 09
L1009	CLZ	538	225358-06 BCD2	37.2293	-116.0616	1.5890	NNSS-SPE Line 1 site 09
L1009	CLR	539	225358-06 BCD2	37.2293	-116.0616	1.5890	NNSS-SPE Line 1 site 09
L1009	CLT	540	225358-06 BCD2	37.2293	-116.0616	1.5890	NNSS-SPE Line 1 site 09
L1009	CLZ	541	225358-06 BCD2	37.2293	-116.0616	1.5890	NNSS-SPE Line 1 site 09
L1009	CLR	542	225358-06 BCD2	37.2293	-116.0616	1.5890	NNSS-SPE Line 1 site 09
L1009	CLT	543	225358-06 BCD2	37.2293	-116.0616	1.5890	NNSS-SPE Line 1 site 09
L1009	CLZ	544	225358-06 BCD2	37.2293	-116.0616	1.5890	NNSS-SPE Line 1 site 09
L1009	CLR	545	225358-06 BCD2	37.2293	-116.0616	1.5890	NNSS-SPE Line 1 site 09
L1009	CLT	546	225358-06 BCD2	37.2293	-116.0616	1.5890	NNSS-SPE Line 1 site 09
L1010	CNZ	547	3690 9220	37.2302	-116.0617	1.5850	NNSS-SPE Line 1 site 10
L1010	CNR	548	3690 9220	37.2302	-116.0617	1.5850	NNSS-SPE Line 1 site 10
L1010	CNT	549	3690 9220	37.2302	-116.0617	1.5850	NNSS-SPE Line 1 site 10
L1010	DJZ	550	A201616 9220	37.2302	-116.0617	1.5850	NNSS-SPE Line 1 site 10
L1010	DJR	551	A201616 9220	37.2302	-116.0617	1.5850	NNSS-SPE Line 1 site 10
L1010	DJT	552	A201616 9220	37.2302	-116.0617	1.5850	NNSS-SPE Line 1 site 10
L1010	CNZ	553	3690 B3D0	37.2302	-116.0617	1.5850	NNSS-SPE Line 1 site 10
L1010	CNR	554	3690 B3D0	37.2302	-116.0617	1.5850	NNSS-SPE Line 1 site 10
L1010	CNT	555	3690 B3D0	37.2302	-116.0617	1.5850	NNSS-SPE Line 1 site 10
L1010	DJZ	556	A201616 B3D0	37.2302	-116.0617	1.5850	NNSS-SPE Line 1 site 10
L1010	DJR	557	A201616 B3D0	37.2302	-116.0617	1.5850	NNSS-SPE Line 1 site 10
L1010	DJT	558	A201616 B3D0	37.2302	-116.0617	1.5850	NNSS-SPE Line 1 site 10
L1010	CLZ	559	16 9504	37.2302	-116.0617	1.5850	NNSS-SPE Line 1 site 10
L1010	CLZ	560	16 9504	37.2302	-116.0617	1.5850	NNSS-SPE Line 1 site 10
L1010	CLZ	561	16 9504	37.2302	-116.0617	1.5850	NNSS-SPE Line 1 site 10
L1010	CLZ	562	16 9504	37.2302	-116.0617	1.5850	NNSS-SPE Line 1 site 10

Appendix 7
Selected Metadata for SPE-6 Surface Stations

Station ID	Channel	Channel ID	Description	Estimated Latitude	Estimated Longitude	Elevation km (amsl)	Location
L1010	CLZ	563	16 9504	37.2302	-116.0617	1.5850	NNSS-SPE Line 1 site 10
L1010	CLZ	564	16 9504	37.2302	-116.0617	1.5850	NNSS-SPE Line 1 site 10
L1010	CLZ	565	16 9504	37.2302	-116.0617	1.5850	NNSS-SPE Line 1 site 10
L1010	CLZ	566	16 B3D7	37.2302	-116.0617	1.5850	NNSS-SPE Line 1 site 10
L1010	CLR	567	16 B3D7	37.2302	-116.0617	1.5850	NNSS-SPE Line 1 site 10
L1010	CLT	568	16 B3D7	37.2302	-116.0617	1.5850	NNSS-SPE Line 1 site 10
L1010	CLZ	569	16 B3D7	37.2302	-116.0617	1.5850	NNSS-SPE Line 1 site 10
L1010	CLR	570	16 B3D7	37.2302	-116.0617	1.5850	NNSS-SPE Line 1 site 10
L1010	CLT	571	16 B3D7	37.2302	-116.0617	1.5850	NNSS-SPE Line 1 site 10
L1010	CLZ	572	16 B3D7	37.2302	-116.0617	1.5850	NNSS-SPE Line 1 site 10
L1010	CLR	573	16 B3D7	37.2302	-116.0617	1.5850	NNSS-SPE Line 1 site 10
L1010	CLT	574	16 B3D7	37.2302	-116.0617	1.5850	NNSS-SPE Line 1 site 10
L1010	CLZ	575	16 BCD2	37.2302	-116.0617	1.5850	NNSS-SPE Line 1 site 10
L1010	CLR	576	16 BCD2	37.2302	-116.0617	1.5850	NNSS-SPE Line 1 site 10
L1010	CLT	577	16 BCD2	37.2302	-116.0617	1.5850	NNSS-SPE Line 1 site 10
L1010	CLZ	578	16 BCD2	37.2302	-116.0617	1.5850	NNSS-SPE Line 1 site 10
L1010	CLR	579	16 BCD2	37.2302	-116.0617	1.5850	NNSS-SPE Line 1 site 10
L1010	CLT	580	16 BCD2	37.2302	-116.0617	1.5850	NNSS-SPE Line 1 site 10
L1010	CLZ	581	16 BCD2	37.2302	-116.0617	1.5850	NNSS-SPE Line 1 site 10
L1010	CLR	582	16 BCD2	37.2302	-116.0617	1.5850	NNSS-SPE Line 1 site 10
L1010	CLT	583	16 BCD2	37.2302	-116.0617	1.5850	NNSS-SPE Line 1 site 10
L1010	CLZ	584	16 BCD2	37.2302	-116.0617	1.5850	NNSS-SPE Line 1 site 10
L1010	CLR	585	16 BCD2	37.2302	-116.0617	1.5850	NNSS-SPE Line 1 site 10
L1010	CLT	586	16 BCD2	37.2302	-116.0617	1.5850	NNSS-SPE Line 1 site 10
L1010	CLZ	587	16 BCD2	37.2302	-116.0617	1.5850	NNSS-SPE Line 1 site 10
L1010	CLR	588	16 BCD2	37.2302	-116.0617	1.5850	NNSS-SPE Line 1 site 10
L1010	CLT	589	16 BCD2	37.2302	-116.0617	1.5850	NNSS-SPE Line 1 site 10
L1010	CLZ	590	16 BCD2	37.2302	-116.0617	1.5850	NNSS-SPE Line 1 site 10
L1010	CLR	591	16 BCD2	37.2302	-116.0617	1.5850	NNSS-SPE Line 1 site 10
L1010	CLT	592	16 BCD2	37.2302	-116.0617	1.5850	NNSS-SPE Line 1 site 10
L1011	CLZ	593	77 9504	37.2311	-116.0618	1.5970	NNSS-SPE Line 1 site 11

Appendix 7
Selected Metadata for SPE-6 Surface Stations

Station ID	Channel	Channel ID	Description	Estimated Latitude	Estimated Longitude	Elevation km (amsl)	Location
L1011	CLZ	594	77 9504	37.2311	-116.0618	1.5970	NNSS-SPE Line 1 site 11
L1011	CLZ	595	77 9504	37.2311	-116.0618	1.5970	NNSS-SPE Line 1 site 11
L1011	CLZ	596	77 9504	37.2311	-116.0618	1.5970	NNSS-SPE Line 1 site 11
L1011	CLZ	597	77 9504	37.2311	-116.0618	1.5970	NNSS-SPE Line 1 site 11
L1011	CLZ	598	77 9504	37.2311	-116.0618	1.5970	NNSS-SPE Line 1 site 11
L1011	CLZ	599	77 9504	37.2311	-116.0618	1.5970	NNSS-SPE Line 1 site 11
L1011	CLZ	600	77 9504	37.2311	-116.0618	1.5970	NNSS-SPE Line 1 site 11
L1011	CLR	601	77 9504	37.2311	-116.0618	1.5970	NNSS-SPE Line 1 site 11
L1011	CLT	602	77 9504	37.2311	-116.0618	1.5970	NNSS-SPE Line 1 site 11
L1011	CLZ	603	214830-12 B2E0	37.2311	-116.0618	1.5970	NNSS-SPE Line 1 site 11
L1011	CLR	604	214830-12 B2E0	37.2311	-116.0618	1.5970	NNSS-SPE Line 1 site 11
L1011	CLT	605	214830-12 B2E0	37.2311	-116.0618	1.5970	NNSS-SPE Line 1 site 11
L1011	CLZ	606	225358-43 B2E0	37.2311	-116.0618	1.5970	NNSS-SPE Line 1 site 11
L1011	CLR	607	225358-43 B2E0	37.2311	-116.0618	1.5970	NNSS-SPE Line 1 site 11
L1011	CLT	608	225358-43 B2E0	37.2311	-116.0618	1.5970	NNSS-SPE Line 1 site 11
L1011	CLZ	609	225358-43 D14F	37.2311	-116.0618	1.5970	NNSS-SPE Line 1 site 11
L1011	CLR	610	225358-43 D14F	37.2311	-116.0618	1.5970	NNSS-SPE Line 1 site 11
L1011	CLT	611	225358-43 D14F	37.2311	-116.0618	1.5970	NNSS-SPE Line 1 site 11
L1011	CLZ	612	225358-43 D14F	37.2311	-116.0618	1.5970	NNSS-SPE Line 1 site 11
L1011	CLR	613	225358-43 D14F	37.2311	-116.0618	1.5970	NNSS-SPE Line 1 site 11
L1011	CLT	614	225358-43 D14F	37.2311	-116.0618	1.5970	NNSS-SPE Line 1 site 11
L1011	CLZ	615	225358-43 D14F	37.2311	-116.0618	1.5970	NNSS-SPE Line 1 site 11
L1011	CLR	616	225358-43 D14F	37.2311	-116.0618	1.5970	NNSS-SPE Line 1 site 11
L1011	CLT	617	225358-43 D14F	37.2311	-116.0618	1.5970	NNSS-SPE Line 1 site 11
L1011	CLZ	618	225358-43 D14F	37.2311	-116.0618	1.5970	NNSS-SPE Line 1 site 11
L1011	CLR	619	225358-43 D14F	37.2311	-116.0618	1.5970	NNSS-SPE Line 1 site 11
L1011	CLT	620	225358-43 D14F	37.2311	-116.0618	1.5970	NNSS-SPE Line 1 site 11
L1011	CLZ	621	225358-43 B3B8	37.2311	-116.0618	1.5970	NNSS-SPE Line 1 site 11
L1011	CLR	622	225358-43 B3B8	37.2311	-116.0618	1.5970	NNSS-SPE Line 1 site 11
L1011	CLT	623	225358-43 B3B8	37.2311	-116.0618	1.5970	NNSS-SPE Line 1 site 11
L1012	CLZ	624	34 9504	37.2320	-116.0619	1.6040	NNSS-SPE Line 1 site 12

Appendix 7
Selected Metadata for SPE-6 Surface Stations

Station ID	Channel	Channel ID	Description	Estimated Latitude	Estimated Longitude	Elevation km (amsl)	Location
L1012	CLR	625	34 9504	37.2320	-116.0619	1.6040	NNSS-SPE Line 1 site 12
L1012	CLT	626	34 9504	37.2320	-116.0619	1.6040	NNSS-SPE Line 1 site 12
L1012	CLZ	627	34 9504	37.2320	-116.0619	1.6040	NNSS-SPE Line 1 site 12
L1012	CLR	628	34 9504	37.2320	-116.0619	1.6040	NNSS-SPE Line 1 site 12
L1012	CLT	629	34 9504	37.2320	-116.0619	1.6040	NNSS-SPE Line 1 site 12
L1012	CLZ	630	34 9504	37.2320	-116.0619	1.6040	NNSS-SPE Line 1 site 12
L1012	CLR	631	34 9504	37.2320	-116.0619	1.6040	NNSS-SPE Line 1 site 12
L1012	CLT	632	34 9504	37.2320	-116.0619	1.6040	NNSS-SPE Line 1 site 12
L1012	CLZ	633	34 9504	37.2320	-116.0619	1.6040	NNSS-SPE Line 1 site 12
L1012	CLR	634	34 9504	37.2320	-116.0619	1.6040	NNSS-SPE Line 1 site 12
L1012	CLT	635	34 9504	37.2320	-116.0619	1.6040	NNSS-SPE Line 1 site 12
L1012	CLZ	636	34 9504	37.2320	-116.0619	1.6040	NNSS-SPE Line 1 site 12
L1012	CLR	637	34 9504	37.2320	-116.0619	1.6040	NNSS-SPE Line 1 site 12
L1012	CLT	638	34 9504	37.2320	-116.0619	1.6040	NNSS-SPE Line 1 site 12
L1012	CLZ	639	34 9504	37.2320	-116.0619	1.6040	NNSS-SPE Line 1 site 12
L1012	CLR	640	34 9504	37.2320	-116.0619	1.6040	NNSS-SPE Line 1 site 12
L1012	CLT	641	34 9504	37.2320	-116.0619	1.6040	NNSS-SPE Line 1 site 12
L1012	CLZ	642	34 9504	37.2320	-116.0619	1.6040	NNSS-SPE Line 1 site 12
L1012	CLR	643	34 9504	37.2320	-116.0619	1.6040	NNSS-SPE Line 1 site 12
L1012	CLT	644	34 9504	37.2320	-116.0619	1.6040	NNSS-SPE Line 1 site 12
L1012	CLZ	645	34 9504	37.2320	-116.0619	1.6040	NNSS-SPE Line 1 site 12
L1012	CLR	646	34 9504	37.2320	-116.0619	1.6040	NNSS-SPE Line 1 site 12
L1012	CLT	647	34 9504	37.2320	-116.0619	1.6040	NNSS-SPE Line 1 site 12
L1012	CLZ	648	34 9504	37.2320	-116.0619	1.6040	NNSS-SPE Line 1 site 12
L1012	CLR	649	34 9504	37.2320	-116.0619	1.6040	NNSS-SPE Line 1 site 12
L1012	CLT	650	34 9504	37.2320	-116.0619	1.6040	NNSS-SPE Line 1 site 12
L1012	CLZ	651	34 B2E0	37.2320	-116.0619	1.6040	NNSS-SPE Line 1 site 12
L1012	CLR	652	34 B2E0	37.2320	-116.0619	1.6040	NNSS-SPE Line 1 site 12
L1012	CLT	653	34 B2E0	37.2320	-116.0619	1.6040	NNSS-SPE Line 1 site 12
L1012	CLZ	654	34 B2E0	37.2320	-116.0619	1.6040	NNSS-SPE Line 1 site 12
L1012	CLR	655	34 B2E0	37.2320	-116.0619	1.6040	NNSS-SPE Line 1 site 12

Appendix 7
Selected Metadata for SPE-6 Surface Stations

Station ID	Channel	Channel ID	Description	Estimated Latitude	Estimated Longitude	Elevation km (amsl)	Location
L1012	CLT	656	34 B2E0	37.2320	-116.0619	1.6040	NNSS-SPE Line 1 site 12
L1012	CLZ	657	34 D14F	37.2320	-116.0619	1.6040	NNSS-SPE Line 1 site 12
L1012	CLR	658	34 D14F	37.2320	-116.0619	1.6040	NNSS-SPE Line 1 site 12
L1012	CLT	659	34 D14F	37.2320	-116.0619	1.6040	NNSS-SPE Line 1 site 12
L1012	CLZ	660	34 D14F	37.2320	-116.0619	1.6040	NNSS-SPE Line 1 site 12
L1012	CLR	661	34 D14F	37.2320	-116.0619	1.6040	NNSS-SPE Line 1 site 12
L1012	CLT	662	34 D14F	37.2320	-116.0619	1.6040	NNSS-SPE Line 1 site 12
L1012	CLZ	663	34 D14F	37.2320	-116.0619	1.6040	NNSS-SPE Line 1 site 12
L1012	CLR	664	34 D14F	37.2320	-116.0619	1.6040	NNSS-SPE Line 1 site 12
L1012	CLT	665	34 D14F	37.2320	-116.0619	1.6040	NNSS-SPE Line 1 site 12
L1012	CLZ	666	34 D14F	37.2320	-116.0619	1.6040	NNSS-SPE Line 1 site 12
L1012	CLR	667	34 D14F	37.2320	-116.0619	1.6040	NNSS-SPE Line 1 site 12
L1012	CLT	668	34 D14F	37.2320	-116.0619	1.6040	NNSS-SPE Line 1 site 12
L1012	CLZ	669	34 D14F	37.2320	-116.0619	1.6040	NNSS-SPE Line 1 site 12
L1012	CLR	670	34 D14F	37.2320	-116.0619	1.6040	NNSS-SPE Line 1 site 12
L1012	CLT	671	34 D14F	37.2320	-116.0619	1.6040	NNSS-SPE Line 1 site 12
L1013	CLZ	672	69 AF0F	37.2329	-116.0620	1.6160	NNSS-SPE Line 1 site 13
L1013	CLZ	673	69 AF0F	37.2329	-116.0620	1.6160	NNSS-SPE Line 1 site 13
L1013	CLZ	674	69 AF0F	37.2329	-116.0620	1.6160	NNSS-SPE Line 1 site 13
L1013	CLZ	675	69 AF0F	37.2329	-116.0620	1.6160	NNSS-SPE Line 1 site 13
L1013	CLZ	676	69 B2D1	37.2329	-116.0620	1.6160	NNSS-SPE Line 1 site 13
L1013	CLR	677	69 B2D1	37.2329	-116.0620	1.6160	NNSS-SPE Line 1 site 13
L1013	CLT	678	69 B2D1	37.2329	-116.0620	1.6160	NNSS-SPE Line 1 site 13
L1013	CLZ	679	69 B2D1	37.2329	-116.0620	1.6160	NNSS-SPE Line 1 site 13
L1013	CLR	680	69 B2D1	37.2329	-116.0620	1.6160	NNSS-SPE Line 1 site 13
L1013	CLT	681	69 B2D1	37.2329	-116.0620	1.6160	NNSS-SPE Line 1 site 13
L1013	CLZ	682	69 B2D1	37.2329	-116.0620	1.6160	NNSS-SPE Line 1 site 13
L1013	CLR	683	69 B2D1	37.2329	-116.0620	1.6160	NNSS-SPE Line 1 site 13
L1013	CLT	684	69 B2D1	37.2329	-116.0620	1.6160	NNSS-SPE Line 1 site 13
L1013	CLZ	685	69 B2D1	37.2329	-116.0620	1.6160	NNSS-SPE Line 1 site 13
L1013	CLR	686	69 B2D1	37.2329	-116.0620	1.6160	NNSS-SPE Line 1 site 13

Appendix 7
Selected Metadata for SPE-6 Surface Stations

Station ID	Channel	Channel ID	Description	Estimated Latitude	Estimated Longitude	Elevation km (amsl)	Location
L1013	CLT	687	69 B2D1	37.2329	-116.0620	1.6160	NNSS-SPE Line 1 site 13
L1013	CLZ	688	69 D1B5	37.2329	-116.0620	1.6160	NNSS-SPE Line 1 site 13
L1013	CLR	689	69 D1B5	37.2329	-116.0620	1.6160	NNSS-SPE Line 1 site 13
L1013	CLT	690	69 D1B5	37.2329	-116.0620	1.6160	NNSS-SPE Line 1 site 13
L1013	CLZ	691	69 D1B5	37.2329	-116.0620	1.6160	NNSS-SPE Line 1 site 13
L1013	CLR	692	69 D1B5	37.2329	-116.0620	1.6160	NNSS-SPE Line 1 site 13
L1013	CLT	693	69 D1B5	37.2329	-116.0620	1.6160	NNSS-SPE Line 1 site 13
L1013	CLZ	694	69 D1B5	37.2329	-116.0620	1.6160	NNSS-SPE Line 1 site 13
L1013	CLR	695	69 D1B5	37.2329	-116.0620	1.6160	NNSS-SPE Line 1 site 13
L1013	CLT	696	69 D1B5	37.2329	-116.0620	1.6160	NNSS-SPE Line 1 site 13
L1013	CLZ	697	69 D1B5	37.2329	-116.0620	1.6160	NNSS-SPE Line 1 site 13
L1013	CLR	698	69 D1B5	37.2329	-116.0620	1.6160	NNSS-SPE Line 1 site 13
L1013	CLT	699	69 D1B5	37.2329	-116.0620	1.6160	NNSS-SPE Line 1 site 13
L1013	CLZ	700	225358-09 BEC9	37.2329	-116.0620	1.6160	NNSS-SPE Line 1 site 13
L1013	CLR	701	225358-09 BEC9	37.2329	-116.0620	1.6160	NNSS-SPE Line 1 site 13
L1013	CLT	702	225358-09 BEC9	37.2329	-116.0620	1.6160	NNSS-SPE Line 1 site 13
L1014	CLZ	703	39 AF0F	37.2338	-116.0621	1.6330	NNSS-SPE Line 1 site 14
L1014	CLZ	704	39 AF0F	37.2338	-116.0621	1.6330	NNSS-SPE Line 1 site 14
L1014	CLZ	705	39 AF0F	37.2338	-116.0621	1.6330	NNSS-SPE Line 1 site 14
L1014	CLZ	706	39 AF0F	37.2338	-116.0621	1.6330	NNSS-SPE Line 1 site 14
L1014	CLZ	707	39 B2D1	37.2338	-116.0621	1.6330	NNSS-SPE Line 1 site 14
L1014	CLR	708	39 B2D1	37.2338	-116.0621	1.6330	NNSS-SPE Line 1 site 14
L1014	CLT	709	39 B2D1	37.2338	-116.0621	1.6330	NNSS-SPE Line 1 site 14
L1014	CLZ	710	39 B2D1	37.2338	-116.0621	1.6330	NNSS-SPE Line 1 site 14
L1014	CLR	711	39 B2D1	37.2338	-116.0621	1.6330	NNSS-SPE Line 1 site 14
L1014	CLT	712	39 B2D1	37.2338	-116.0621	1.6330	NNSS-SPE Line 1 site 14
L1014	CLZ	713	39 B2D1	37.2338	-116.0621	1.6330	NNSS-SPE Line 1 site 14
L1014	CLR	714	39 B2D1	37.2338	-116.0621	1.6330	NNSS-SPE Line 1 site 14
L1014	CLT	715	39 B2D1	37.2338	-116.0621	1.6330	NNSS-SPE Line 1 site 14
L1014	CLZ	716	39 B2D1	37.2338	-116.0621	1.6330	NNSS-SPE Line 1 site 14
L1014	CLR	717	39 B2D1	37.2338	-116.0621	1.6330	NNSS-SPE Line 1 site 14

Appendix 7
Selected Metadata for SPE-6 Surface Stations

Station ID	Channel	Channel ID	Description	Estimated Latitude	Estimated Longitude	Elevation km (amsl)	Location
L1014	CLT	718	39 B2D1	37.2338	-116.0621	1.6330	NNSS-SPE Line 1 site 14
L1014	CLZ	719	39 D1B5	37.2338	-116.0621	1.6330	NNSS-SPE Line 1 site 14
L1014	CLR	720	39 D1B5	37.2338	-116.0621	1.6330	NNSS-SPE Line 1 site 14
L1014	CLT	721	39 D1B5	37.2338	-116.0621	1.6330	NNSS-SPE Line 1 site 14
L1014	CLZ	722	39 D1B5	37.2338	-116.0621	1.6330	NNSS-SPE Line 1 site 14
L1014	CLR	723	39 D1B5	37.2338	-116.0621	1.6330	NNSS-SPE Line 1 site 14
L1014	CLT	724	39 D1B5	37.2338	-116.0621	1.6330	NNSS-SPE Line 1 site 14
L1014	CLZ	725	39 D1B5	37.2338	-116.0621	1.6330	NNSS-SPE Line 1 site 14
L1014	CLR	726	39 D1B5	37.2338	-116.0621	1.6330	NNSS-SPE Line 1 site 14
L1014	CLT	727	39 D1B5	37.2338	-116.0621	1.6330	NNSS-SPE Line 1 site 14
L1014	CLZ	728	39 D1B5	37.2338	-116.0621	1.6330	NNSS-SPE Line 1 site 14
L1014	CLR	729	39 D1B5	37.2338	-116.0621	1.6330	NNSS-SPE Line 1 site 14
L1014	CLT	730	39 D1B5	37.2338	-116.0621	1.6330	NNSS-SPE Line 1 site 14
L1014	CLZ	731	65 D1B5	37.2338	-116.0621	1.6330	NNSS-SPE Line 1 site 14
L1014	CLR	732	65 D1B5	37.2338	-116.0621	1.6330	NNSS-SPE Line 1 site 14
L1014	CLT	733	65 D1B5	37.2338	-116.0621	1.6330	NNSS-SPE Line 1 site 14
L1015	CLZ	734	27 AF0F	37.2347	-116.0621	1.6560	NNSS-SPE Line 1 site 15
L1015	CLZ	735	27 AF0F	37.2347	-116.0621	1.6560	NNSS-SPE Line 1 site 15
L1015	CLZ	736	27 AF0F	37.2347	-116.0621	1.6560	NNSS-SPE Line 1 site 15
L1015	CLZ	737	27 AF0F	37.2347	-116.0621	1.6560	NNSS-SPE Line 1 site 15
L1015	CLZ	738	27 AF0F	37.2347	-116.0621	1.6560	NNSS-SPE Line 1 site 15
L1015	CLR	739	27 AF0F	37.2347	-116.0621	1.6560	NNSS-SPE Line 1 site 15
L1015	CLT	740	27 AF0F	37.2347	-116.0621	1.6560	NNSS-SPE Line 1 site 15
L1015	CLZ	741	27 AF0F	37.2347	-116.0621	1.6560	NNSS-SPE Line 1 site 15
L1015	CLR	742	27 AF0F	37.2347	-116.0621	1.6560	NNSS-SPE Line 1 site 15
L1015	CLT	743	27 AF0F	37.2347	-116.0621	1.6560	NNSS-SPE Line 1 site 15
L1015	CLZ	744	214830-08 AF0F	37.2347	-116.0621	1.6560	NNSS-SPE Line 1 site 15
L1015	CLR	745	214830-08 AF0F	37.2347	-116.0621	1.6560	NNSS-SPE Line 1 site 15
L1015	CLT	746	214830-08 AF0F	37.2347	-116.0621	1.6560	NNSS-SPE Line 1 site 15
L1015	CLZ	747	214830-08 AF0F	37.2347	-116.0621	1.6560	NNSS-SPE Line 1 site 15
L1015	CLR	748	214830-08 AF0F	37.2347	-116.0621	1.6560	NNSS-SPE Line 1 site 15

Appendix 7
Selected Metadata for SPE-6 Surface Stations

Station ID	Channel	Channel ID	Description	Estimated Latitude	Estimated Longitude	Elevation km (amsl)	Location
L1015	CLT	749	214830-08 AF0F	37.2347	-116.0621	1.6560	NNSS-SPE Line 1 site 15
L1015	CLZ	750	214830-08 AF0F	37.2347	-116.0621	1.6560	NNSS-SPE Line 1 site 15
L1015	CLR	751	214830-08 AF0F	37.2347	-116.0621	1.6560	NNSS-SPE Line 1 site 15
L1015	CLT	752	214830-08 AF0F	37.2347	-116.0621	1.6560	NNSS-SPE Line 1 site 15
L1015	CLZ	753	214830-08 AF0F	37.2347	-116.0621	1.6560	NNSS-SPE Line 1 site 15
L1015	CLR	754	214830-08 AF0F	37.2347	-116.0621	1.6560	NNSS-SPE Line 1 site 15
L1015	CLT	755	214830-08 AF0F	37.2347	-116.0621	1.6560	NNSS-SPE Line 1 site 15
L1015	CLZ	756	214830-08 AF0F	37.2347	-116.0621	1.6560	NNSS-SPE Line 1 site 15
L1015	CLR	757	214830-08 AF0F	37.2347	-116.0621	1.6560	NNSS-SPE Line 1 site 15
L1015	CLT	758	214830-08 AF0F	37.2347	-116.0621	1.6560	NNSS-SPE Line 1 site 15
L1015	CLZ	759	214830-08 AF0F	37.2347	-116.0621	1.6560	NNSS-SPE Line 1 site 15
L1015	CLR	760	214830-08 AF0F	37.2347	-116.0621	1.6560	NNSS-SPE Line 1 site 15
L1015	CLT	761	214830-08 AF0F	37.2347	-116.0621	1.6560	NNSS-SPE Line 1 site 15
L1016	CLZ	762	35 AF0F	37.2355	-116.0622	1.6740	NNSS-SPE Line 1 site 16
L1016	CLR	763	35 AF0F	37.2355	-116.0622	1.6740	NNSS-SPE Line 1 site 16
L1016	CLT	764	35 AF0F	37.2355	-116.0622	1.6740	NNSS-SPE Line 1 site 16
L1016	CLZ	765	35 AF0F	37.2355	-116.0622	1.6740	NNSS-SPE Line 1 site 16
L1016	CLR	766	35 AF0F	37.2355	-116.0622	1.6740	NNSS-SPE Line 1 site 16
L1016	CLT	767	35 AF0F	37.2355	-116.0622	1.6740	NNSS-SPE Line 1 site 16
L1016	CLZ	768	35 AF0F	37.2355	-116.0622	1.6740	NNSS-SPE Line 1 site 16
L1016	CLR	769	35 AF0F	37.2355	-116.0622	1.6740	NNSS-SPE Line 1 site 16
L1016	CLT	770	35 AF0F	37.2355	-116.0622	1.6740	NNSS-SPE Line 1 site 16
L1016	CLZ	771	35 AF0F	37.2355	-116.0622	1.6740	NNSS-SPE Line 1 site 16
L1016	CLR	772	35 AF0F	37.2355	-116.0622	1.6740	NNSS-SPE Line 1 site 16
L1016	CLT	773	35 AF0F	37.2355	-116.0622	1.6740	NNSS-SPE Line 1 site 16
L1016	CLZ	774	35 AF0F	37.2355	-116.0622	1.6740	NNSS-SPE Line 1 site 16
L1016	CLR	775	35 AF0F	37.2355	-116.0622	1.6740	NNSS-SPE Line 1 site 16
L1016	CLT	776	35 AF0F	37.2355	-116.0622	1.6740	NNSS-SPE Line 1 site 16
L1016	CLZ	777	35 AF0F	37.2355	-116.0622	1.6740	NNSS-SPE Line 1 site 16
L1016	CLR	778	35 AF0F	37.2355	-116.0622	1.6740	NNSS-SPE Line 1 site 16
L1016	CLT	779	35 AF0F	37.2355	-116.0622	1.6740	NNSS-SPE Line 1 site 16

Appendix 7
Selected Metadata for SPE-6 Surface Stations

Station ID	Channel	Channel ID	Description	Estimated Latitude	Estimated Longitude	Elevation km (amsl)	Location
L1016	CLZ	780	35 AF0F	37.2355	-116.0622	1.6740	NNSS-SPE Line 1 site 16
L1016	CLR	781	35 AF0F	37.2355	-116.0622	1.6740	NNSS-SPE Line 1 site 16
L1016	CLT	782	35 AF0F	37.2355	-116.0622	1.6740	NNSS-SPE Line 1 site 16
L1016	CLZ	783	35 AF0F	37.2355	-116.0622	1.6740	NNSS-SPE Line 1 site 16
L1016	CLR	784	35 AF0F	37.2355	-116.0622	1.6740	NNSS-SPE Line 1 site 16
L1016	CLT	785	35 AF0F	37.2355	-116.0622	1.6740	NNSS-SPE Line 1 site 16
L1016	CLZ	786	115 AF0F	37.2355	-116.0622	1.6740	NNSS-SPE Line 1 site 16
L1016	CLR	787	115 AF0F	37.2355	-116.0622	1.6740	NNSS-SPE Line 1 site 16
L1016	CLT	788	115 AF0F	37.2355	-116.0622	1.6740	NNSS-SPE Line 1 site 16
L1016	CLZ	789	115 AF0F	37.2355	-116.0622	1.6740	NNSS-SPE Line 1 site 16
L1016	CLR	790	115 AF0F	37.2355	-116.0622	1.6740	NNSS-SPE Line 1 site 16
L1016	CLT	791	115 AF0F	37.2355	-116.0622	1.6740	NNSS-SPE Line 1 site 16
L1016	CLZ	792	115 AF0F	37.2355	-116.0622	1.6740	NNSS-SPE Line 1 site 16
L1016	CLR	793	115 AF0F	37.2355	-116.0622	1.6740	NNSS-SPE Line 1 site 16
L1016	CLT	794	115 AF0F	37.2355	-116.0622	1.6740	NNSS-SPE Line 1 site 16
L1016	CLZ	795	115 AF0F	37.2355	-116.0622	1.6740	NNSS-SPE Line 1 site 16
L1016	CLR	796	115 AF0F	37.2355	-116.0622	1.6740	NNSS-SPE Line 1 site 16
L1016	CLT	797	115 AF0F	37.2355	-116.0622	1.6740	NNSS-SPE Line 1 site 16
L1016	CLZ	798	115 AF0F	37.2355	-116.0622	1.6740	NNSS-SPE Line 1 site 16
L1016	CLR	799	115 AF0F	37.2355	-116.0622	1.6740	NNSS-SPE Line 1 site 16
L1016	CLT	800	115 AF0F	37.2355	-116.0622	1.6740	NNSS-SPE Line 1 site 16
L1017	CLZ	801	45 9502	37.2364	-116.0623	1.7060	NNSS-SPE Line 1 site 17
L1017	CLZ	802	45 9502	37.2364	-116.0623	1.7060	NNSS-SPE Line 1 site 17
L1017	CLZ	803	45 9834	37.2364	-116.0623	1.7060	NNSS-SPE Line 1 site 17
L1017	CLZ	804	45 9502	37.2364	-116.0623	1.7060	NNSS-SPE Line 1 site 17
L1017	CLZ	805	45 9502	37.2364	-116.0623	1.7060	NNSS-SPE Line 1 site 17
L1017	CLZ	806	45 9502	37.2364	-116.0623	1.7060	NNSS-SPE Line 1 site 17
L1017	CLZ	807	45 9502	37.2364	-116.0623	1.7060	NNSS-SPE Line 1 site 17
L1017	CLZ	808	45 9502	37.2364	-116.0623	1.7060	NNSS-SPE Line 1 site 17
L1017	CLZ	809	45 B2D4	37.2364	-116.0623	1.7060	NNSS-SPE Line 1 site 17
L1017	CLR	810	45 B2D4	37.2364	-116.0623	1.7060	NNSS-SPE Line 1 site 17

Appendix 7
Selected Metadata for SPE-6 Surface Stations

Station ID	Channel	Channel ID	Description	Estimated Latitude	Estimated Longitude	Elevation km (amsl)	Location
L1017	CLT	811	45 B2D4	37.2364	-116.0623	1.7060	NNSS-SPE Line 1 site 17
L1017	CLZ	812	45 B2D4	37.2364	-116.0623	1.7060	NNSS-SPE Line 1 site 17
L1017	CLR	813	45 B2D4	37.2364	-116.0623	1.7060	NNSS-SPE Line 1 site 17
L1017	CLT	814	45 B2D4	37.2364	-116.0623	1.7060	NNSS-SPE Line 1 site 17
L1017	CLZ	815	214830-19 B2D4	37.2364	-116.0623	1.7060	NNSS-SPE Line 1 site 17
L1017	CLR	816	214830-19 B2D4	37.2364	-116.0623	1.7060	NNSS-SPE Line 1 site 17
L1017	CLT	817	214830-19 B2D4	37.2364	-116.0623	1.7060	NNSS-SPE Line 1 site 17
L1017	CLZ	818	214830-19 B2D4	37.2364	-116.0623	1.7060	NNSS-SPE Line 1 site 17
L1017	CLR	819	214830-19 B2D4	37.2364	-116.0623	1.7060	NNSS-SPE Line 1 site 17
L1017	CLT	820	214830-19 B2D4	37.2364	-116.0623	1.7060	NNSS-SPE Line 1 site 17
L1017	CLZ	821	214830-19 B2D4	37.2364	-116.0623	1.7060	NNSS-SPE Line 1 site 17
L1017	CLR	822	214830-19 B2D4	37.2364	-116.0623	1.7060	NNSS-SPE Line 1 site 17
L1017	CLT	823	214830-19 B2D4	37.2364	-116.0623	1.7060	NNSS-SPE Line 1 site 17
L1017	CLZ	824	214830-19 B2D4	37.2364	-116.0623	1.7060	NNSS-SPE Line 1 site 17
L1017	CLR	825	214830-19 B2D4	37.2364	-116.0623	1.7060	NNSS-SPE Line 1 site 17
L1017	CLT	826	214830-19 B2D4	37.2364	-116.0623	1.7060	NNSS-SPE Line 1 site 17
L1017	CLZ	827	214830-19 B2D4	37.2364	-116.0623	1.7060	NNSS-SPE Line 1 site 17
L1017	CLR	828	214830-19 B2D4	37.2364	-116.0623	1.7060	NNSS-SPE Line 1 site 17
L1017	CLT	829	214830-19 B2D4	37.2364	-116.0623	1.7060	NNSS-SPE Line 1 site 17
L1017	CLZ	830	2 D1BB	37.2364	-116.0623	1.7060	NNSS-SPE Line 1 site 17
L1017	CLR	831	2 D1BB	37.2364	-116.0623	1.7060	NNSS-SPE Line 1 site 17
L1017	CLT	832	2 D1BB	37.2364	-116.0623	1.7060	NNSS-SPE Line 1 site 17
L1018	CLZ	833	2 9502	37.2373	-116.0624	1.7390	NNSS-SPE Line 1 site 18
L1018	CLZ	834	2 9502	37.2373	-116.0624	1.7390	NNSS-SPE Line 1 site 18
L1018	CLZ	835	2 9834	37.2373	-116.0624	1.7390	NNSS-SPE Line 1 site 18
L1018	CLZ	836	2 9502	37.2373	-116.0624	1.7390	NNSS-SPE Line 1 site 18
L1018	CLZ	837	2 9502	37.2373	-116.0624	1.7390	NNSS-SPE Line 1 site 18
L1018	CLZ	838	2 9502	37.2373	-116.0624	1.7390	NNSS-SPE Line 1 site 18
L1018	CLZ	839	2 9502	37.2373	-116.0624	1.7390	NNSS-SPE Line 1 site 18
L1018	CLZ	840	2 9502	37.2373	-116.0624	1.7390	NNSS-SPE Line 1 site 18
L1018	CLZ	841	02 B2D4	37.2373	-116.0624	1.7390	NNSS-SPE Line 1 site 18

Appendix 7
Selected Metadata for SPE-6 Surface Stations

Station ID	Channel	Channel ID	Description	Estimated Latitude	Estimated Longitude	Elevation km (amsl)	Location
L1018	CLR	842	02 B2D4	37.2373	-116.0624	1.7390	NNSS-SPE Line 1 site 18
L1018	CLT	843	02 B2D4	37.2373	-116.0624	1.7390	NNSS-SPE Line 1 site 18
L1018	CLZ	844	02 B2D4	37.2373	-116.0624	1.7390	NNSS-SPE Line 1 site 18
L1018	CLR	845	02 B2D4	37.2373	-116.0624	1.7390	NNSS-SPE Line 1 site 18
L1018	CLT	846	02 B2D4	37.2373	-116.0624	1.7390	NNSS-SPE Line 1 site 18
L1018	CLZ	847	214830-03 B2D4	37.2373	-116.0624	1.7390	NNSS-SPE Line 1 site 18
L1018	CLR	848	214830-03 B2D4	37.2373	-116.0624	1.7390	NNSS-SPE Line 1 site 18
L1018	CLT	849	214830-03 B2D4	37.2373	-116.0624	1.7390	NNSS-SPE Line 1 site 18
L1018	CLZ	850	214830-03 B2D4	37.2373	-116.0624	1.7390	NNSS-SPE Line 1 site 18
L1018	CLR	851	214830-03 B2D4	37.2373	-116.0624	1.7390	NNSS-SPE Line 1 site 18
L1018	CLT	852	214830-03 B2D4	37.2373	-116.0624	1.7390	NNSS-SPE Line 1 site 18
L1018	CLZ	853	214830-03 B2D4	37.2373	-116.0624	1.7390	NNSS-SPE Line 1 site 18
L1018	CLR	854	214830-03 B2D4	37.2373	-116.0624	1.7390	NNSS-SPE Line 1 site 18
L1018	CLT	855	214830-03 B2D4	37.2373	-116.0624	1.7390	NNSS-SPE Line 1 site 18
L1018	CLZ	856	214830-03 B2D4	37.2373	-116.0624	1.7390	NNSS-SPE Line 1 site 18
L1018	CLR	857	214830-03 B2D4	37.2373	-116.0624	1.7390	NNSS-SPE Line 1 site 18
L1018	CLT	858	214830-03 B2D4	37.2373	-116.0624	1.7390	NNSS-SPE Line 1 site 18
L1018	CLZ	859	214830-03 B2D4	37.2373	-116.0624	1.7390	NNSS-SPE Line 1 site 18
L1018	CLR	860	214830-03 B2D4	37.2373	-116.0624	1.7390	NNSS-SPE Line 1 site 18
L1018	CLT	861	214830-03 B2D4	37.2373	-116.0624	1.7390	NNSS-SPE Line 1 site 18
L1018	CLZ	862	214830-03 D1BB	37.2373	-116.0624	1.7390	NNSS-SPE Line 1 site 18
L1018	CLR	863	214830-03 D1BB	37.2373	-116.0624	1.7390	NNSS-SPE Line 1 site 18
L1018	CLT	864	214830-03 D1BB	37.2373	-116.0624	1.7390	NNSS-SPE Line 1 site 18
L1019	CLZ	865	14 9502	37.2382	-116.0625	1.7380	NNSS-SPE Line 1 site 19
L1019	CLZ	866	14 9502	37.2382	-116.0625	1.7380	NNSS-SPE Line 1 site 19
L1019	CLZ	867	14 9834	37.2382	-116.0625	1.7380	NNSS-SPE Line 1 site 19
L1019	CLZ	868	14 9502	37.2382	-116.0625	1.7380	NNSS-SPE Line 1 site 19
L1019	CLZ	869	14 9502	37.2382	-116.0625	1.7380	NNSS-SPE Line 1 site 19
L1019	CLZ	870	14 9502	37.2382	-116.0625	1.7380	NNSS-SPE Line 1 site 19
L1019	CLZ	871	14 9502	37.2382	-116.0625	1.7380	NNSS-SPE Line 1 site 19
L1019	CLZ	872	14 9502	37.2382	-116.0625	1.7380	NNSS-SPE Line 1 site 19

Appendix 7
Selected Metadata for SPE-6 Surface Stations

Station ID	Channel	Channel ID	Description	Estimated Latitude	Estimated Longitude	Elevation km (amsl)	Location
L1019	CLZ	873	14 9502	37.2382	-116.0625	1.7380	NNSS-SPE Line 1 site 19
L1019	CLR	874	14 9502	37.2382	-116.0625	1.7380	NNSS-SPE Line 1 site 19
L1019	CLT	875	14 9502	37.2382	-116.0625	1.7380	NNSS-SPE Line 1 site 19
L1019	CLZ	876	14 9502	37.2382	-116.0625	1.7380	NNSS-SPE Line 1 site 19
L1019	CLR	877	14 9502	37.2382	-116.0625	1.7380	NNSS-SPE Line 1 site 19
L1019	CLT	878	14 9502	37.2382	-116.0625	1.7380	NNSS-SPE Line 1 site 19
L1019	CLZ	879	14 9502	37.2382	-116.0625	1.7380	NNSS-SPE Line 1 site 19
L1019	CLR	880	14 9502	37.2382	-116.0625	1.7380	NNSS-SPE Line 1 site 19
L1019	CLT	881	14 9502	37.2382	-116.0625	1.7380	NNSS-SPE Line 1 site 19
L1019	CLZ	882	14 9502	37.2382	-116.0625	1.7380	NNSS-SPE Line 1 site 19
L1019	CLR	883	14 9502	37.2382	-116.0625	1.7380	NNSS-SPE Line 1 site 19
L1019	CLT	884	14 9502	37.2382	-116.0625	1.7380	NNSS-SPE Line 1 site 19
L1019	CLZ	885	14 949C	37.2382	-116.0625	1.7380	NNSS-SPE Line 1 site 19
L1019	CLR	886	14 949C	37.2382	-116.0625	1.7380	NNSS-SPE Line 1 site 19
L1019	CLT	887	14 949C	37.2382	-116.0625	1.7380	NNSS-SPE Line 1 site 19
L1019	CLZ	888	14 949C	37.2382	-116.0625	1.7380	NNSS-SPE Line 1 site 19
L1019	CLR	889	14 949C	37.2382	-116.0625	1.7380	NNSS-SPE Line 1 site 19
L1019	CLT	890	14 949C	37.2382	-116.0625	1.7380	NNSS-SPE Line 1 site 19
L1019	CLZ	891	14 949C	37.2382	-116.0625	1.7380	NNSS-SPE Line 1 site 19
L1019	CLR	892	14 949C	37.2382	-116.0625	1.7380	NNSS-SPE Line 1 site 19
L1019	CLT	893	14 949C	37.2382	-116.0625	1.7380	NNSS-SPE Line 1 site 19
L1019	CLZ	894	14 949C	37.2382	-116.0625	1.7380	NNSS-SPE Line 1 site 19
L1019	CLR	895	14 949C	37.2382	-116.0625	1.7380	NNSS-SPE Line 1 site 19
L1019	CLT	896	14 949C	37.2382	-116.0625	1.7380	NNSS-SPE Line 1 site 19
L1019	CLZ	897	14 949C	37.2382	-116.0625	1.7380	NNSS-SPE Line 1 site 19
L1019	CLR	898	14 949C	37.2382	-116.0625	1.7380	NNSS-SPE Line 1 site 19
L1019	CLT	899	14 949C	37.2382	-116.0625	1.7380	NNSS-SPE Line 1 site 19
L1020	DHZ	900	T4093 9502	37.2391	-116.0626	1.7520	NNSS-SPE Line 1 site 20
L1020	DHR	901	T4093 9502	37.2391	-116.0626	1.7520	NNSS-SPE Line 1 site 20
L1020	DHT	902	T4093 9502	37.2391	-116.0626	1.7520	NNSS-SPE Line 1 site 20
L1020	DHZ	903	T4093 9502	37.2391	-116.0626	1.7520	NNSS-SPE Line 1 site 20

Appendix 7
Selected Metadata for SPE-6 Surface Stations

Station ID	Channel	Channel ID	Description	Estimated Latitude	Estimated Longitude	Elevation km (amsl)	Location
L1020	DHR	904	T4093 9502	37.2391	-116.0626	1.7520	NNSS-SPE Line 1 site 20
L1020	DHT	905	T4093 9502	37.2391	-116.0626	1.7520	NNSS-SPE Line 1 site 20
L1020	DHZ	906	T4093 9834	37.2391	-116.0626	1.7520	NNSS-SPE Line 1 site 20
L1020	DHR	907	T4093 9834	37.2391	-116.0626	1.7520	NNSS-SPE Line 1 site 20
L1020	DHT	908	T4093 9834	37.2391	-116.0626	1.7520	NNSS-SPE Line 1 site 20
L1020	DHZ	909	T4093 9502	37.2391	-116.0626	1.7520	NNSS-SPE Line 1 site 20
L1020	DHR	910	T4093 9502	37.2391	-116.0626	1.7520	NNSS-SPE Line 1 site 20
L1020	DHT	911	T4093 9502	37.2391	-116.0626	1.7520	NNSS-SPE Line 1 site 20
L1020	DHZ	912	T4093 9502	37.2391	-116.0626	1.7520	NNSS-SPE Line 1 site 20
L1020	DHR	913	T4093 9502	37.2391	-116.0626	1.7520	NNSS-SPE Line 1 site 20
L1020	DHT	914	T4093 9502	37.2391	-116.0626	1.7520	NNSS-SPE Line 1 site 20
L1020	DHZ	915	T4093 9502	37.2391	-116.0626	1.7520	NNSS-SPE Line 1 site 20
L1020	DHR	916	T4093 9502	37.2391	-116.0626	1.7520	NNSS-SPE Line 1 site 20
L1020	DHT	917	T4093 9502	37.2391	-116.0626	1.7520	NNSS-SPE Line 1 site 20
L1020	DHZ	918	T4093 9502	37.2391	-116.0626	1.7520	NNSS-SPE Line 1 site 20
L1020	DHR	919	T4093 9502	37.2391	-116.0626	1.7520	NNSS-SPE Line 1 site 20
L1020	DHT	920	T4093 9502	37.2391	-116.0626	1.7520	NNSS-SPE Line 1 site 20
L1020	DHZ	921	T4093 9502	37.2391	-116.0626	1.7520	NNSS-SPE Line 1 site 20
L1020	DHR	922	T4093 9502	37.2391	-116.0626	1.7520	NNSS-SPE Line 1 site 20
L1020	DHT	923	T4093 9502	37.2391	-116.0626	1.7520	NNSS-SPE Line 1 site 20
L1020	DHZ	924	T4093 9502	37.2391	-116.0626	1.7520	NNSS-SPE Line 1 site 20
L1020	DHR	925	T4093 9502	37.2391	-116.0626	1.7520	NNSS-SPE Line 1 site 20
L1020	DHT	926	T4093 9502	37.2391	-116.0626	1.7520	NNSS-SPE Line 1 site 20
L1020	DHZ	927	T4093 9502	37.2391	-116.0626	1.7520	NNSS-SPE Line 1 site 20
L1020	DHR	928	T4093 9502	37.2391	-116.0626	1.7520	NNSS-SPE Line 1 site 20
L1020	DHT	929	T4093 9502	37.2391	-116.0626	1.7520	NNSS-SPE Line 1 site 20
L1020	DHZ	930	T4093 9502	37.2391	-116.0626	1.7520	NNSS-SPE Line 1 site 20
L1020	DHR	931	T4093 9502	37.2391	-116.0626	1.7520	NNSS-SPE Line 1 site 20
L1020	DHT	932	T4093 9502	37.2391	-116.0626	1.7520	NNSS-SPE Line 1 site 20
L1020	DHZ	933	T4093 9502	37.2391	-116.0626	1.7520	NNSS-SPE Line 1 site 20
L1020	DHR	934	T4093 9502	37.2391	-116.0626	1.7520	NNSS-SPE Line 1 site 20

Appendix 7
Selected Metadata for SPE-6 Surface Stations

Station ID	Channel	Channel ID	Description	Estimated Latitude	Estimated Longitude	Elevation km (amsl)	Location
L1020	DHT	935	T4093 9502	37.2391	-116.0626	1.7520	NNSS-SPE Line 1 site 20
L1020	DHZ	936	T4093 9502	37.2391	-116.0626	1.7520	NNSS-SPE Line 1 site 20
L1020	DHR	937	T4093 9502	37.2391	-116.0626	1.7520	NNSS-SPE Line 1 site 20
L1020	DHT	938	T4093 9502	37.2391	-116.0626	1.7520	NNSS-SPE Line 1 site 20
L1020	DHZ	939	T4093 949C	37.2391	-116.0626	1.7520	NNSS-SPE Line 1 site 20
L1020	DHR	940	T4093 949C	37.2391	-116.0626	1.7520	NNSS-SPE Line 1 site 20
L1020	DHT	941	T4093 949C	37.2391	-116.0626	1.7520	NNSS-SPE Line 1 site 20
L1020	DHZ	942	T4093 949C	37.2391	-116.0626	1.7520	NNSS-SPE Line 1 site 20
L1020	DHR	943	T4093 949C	37.2391	-116.0626	1.7520	NNSS-SPE Line 1 site 20
L1020	DHT	944	T4093 949C	37.2391	-116.0626	1.7520	NNSS-SPE Line 1 site 20
L1020	DHZ	945	T4093 949C	37.2391	-116.0626	1.7520	NNSS-SPE Line 1 site 20
L1020	DHR	946	T4093 949C	37.2391	-116.0626	1.7520	NNSS-SPE Line 1 site 20
L1020	DHT	947	T4093 949C	37.2391	-116.0626	1.7520	NNSS-SPE Line 1 site 20
L1020	DHZ	948	T4093 949C	37.2391	-116.0626	1.7520	NNSS-SPE Line 1 site 20
L1020	DHR	949	T4093 949C	37.2391	-116.0626	1.7520	NNSS-SPE Line 1 site 20
L1020	DHT	950	T4093 949C	37.2391	-116.0626	1.7520	NNSS-SPE Line 1 site 20
L1020	DHZ	951	T4093 949C	37.2391	-116.0626	1.7520	NNSS-SPE Line 1 site 20
L1020	DHR	952	T4093 949C	37.2391	-116.0626	1.7520	NNSS-SPE Line 1 site 20
L1020	DHT	953	T4093 949C	37.2391	-116.0626	1.7520	NNSS-SPE Line 1 site 20
L1150	CNZ	954	180 D1CD	37.2225	-116.0610	1.5080	NNSS-SPE Line 1 150m
L1150	CNR	955	180 D1CD	37.2225	-116.0610	1.5080	NNSS-SPE Line 1 150m
L1150	CNT	956	180 D1CD	37.2225	-116.0610	1.5080	NNSS-SPE Line 1 150m
L1150	CNZ	957	180 D1CD	37.2225	-116.0610	1.5080	NNSS-SPE Line 1 150m
L1150	CNR	958	180 D1CD	37.2225	-116.0610	1.5080	NNSS-SPE Line 1 150m
L1150	CNT	959	180 D1CD	37.2225	-116.0610	1.5080	NNSS-SPE Line 1 150m
L160	CNZ	960	4975 D1AF	37.2217	-116.0609	1.5030	NNSS-SPE Line 1 60m
L160	CNR	961	4975 D1AF	37.2217	-116.0609	1.5030	NNSS-SPE Line 1 60m
L160	CNT	962	4975 D1AF	37.2217	-116.0609	1.5030	NNSS-SPE Line 1 60m
L160	CNZ	963	4975 D1AF	37.2217	-116.0609	1.5030	NNSS-SPE Line 1 60m
L160	CNR	964	4975 D1AF	37.2217	-116.0609	1.5030	NNSS-SPE Line 1 60m
L160	CNT	965	4975 D1AF	37.2217	-116.0609	1.5030	NNSS-SPE Line 1 60m

Appendix 7
Selected Metadata for SPE-6 Surface Stations

Station ID	Channel	Channel ID	Description	Estimated Latitude	Estimated Longitude	Elevation km (amsl)	Location
L2001	CLZ	966	57 AF07	37.2218	-116.0600	1.5200	NNSS-SPE Line 2 site 01
L2001	CLZ	967	57 AF07	37.2218	-116.0600	1.5200	NNSS-SPE Line 2 site 01
L2001	CLZ	968	57 AF07	37.2218	-116.0600	1.5200	NNSS-SPE Line 2 site 01
L2001	CLZ	969	57 AF07	37.2218	-116.0600	1.5200	NNSS-SPE Line 2 site 01
L2001	CLZ	970	57 AF07	37.2218	-116.0600	1.5200	NNSS-SPE Line 2 site 01
L2001	CLZ	971	57 AF07	37.2218	-116.0600	1.5200	NNSS-SPE Line 2 site 01
L2001	CLZ	972	57 B3B2	37.2218	-116.0600	1.5200	NNSS-SPE Line 2 site 01
L2001	CLR	973	57 B3B2	37.2218	-116.0600	1.5200	NNSS-SPE Line 2 site 01
L2001	CLT	974	57 B3B2	37.2218	-116.0600	1.5200	NNSS-SPE Line 2 site 01
L2001	CLZ	975	57 B3B2	37.2218	-116.0600	1.5200	NNSS-SPE Line 2 site 01
L2001	CLR	976	57 B3B2	37.2218	-116.0600	1.5200	NNSS-SPE Line 2 site 01
L2001	CLT	977	57 B3B2	37.2218	-116.0600	1.5200	NNSS-SPE Line 2 site 01
L2001	CLZ	978	57 BCB7	37.2218	-116.0600	1.5200	NNSS-SPE Line 2 site 01
L2001	CLR	979	57 BCB7	37.2218	-116.0600	1.5200	NNSS-SPE Line 2 site 01
L2001	CLT	980	57 BCB7	37.2218	-116.0600	1.5200	NNSS-SPE Line 2 site 01
L2001	CLZ	981	225358-15 BCB7	37.2218	-116.0600	1.5200	NNSS-SPE Line 2 site 01
L2001	CLR	982	225358-15 BCB7	37.2218	-116.0600	1.5200	NNSS-SPE Line 2 site 01
L2001	CLT	983	225358-15 BCB7	37.2218	-116.0600	1.5200	NNSS-SPE Line 2 site 01
L2001	CLZ	984	225358-15 BCD3	37.2218	-116.0600	1.5200	NNSS-SPE Line 2 site 01
L2001	CLR	985	225358-15 BCD3	37.2218	-116.0600	1.5200	NNSS-SPE Line 2 site 01
L2001	CLT	986	225358-15 BCD3	37.2218	-116.0600	1.5200	NNSS-SPE Line 2 site 01
L2001	CLZ	987	225358-15 D1BC	37.2218	-116.0600	1.5200	NNSS-SPE Line 2 site 01
L2001	CLR	988	225358-15 D1BC	37.2218	-116.0600	1.5200	NNSS-SPE Line 2 site 01
L2001	CLT	989	225358-15 D1BC	37.2218	-116.0600	1.5200	NNSS-SPE Line 2 site 01
L2001	CNZ	990	4971 D1BC	37.2218	-116.0600	1.5200	NNSS-SPE Line 2 site 01
L2001	CNR	991	4971 D1BC	37.2218	-116.0600	1.5200	NNSS-SPE Line 2 site 01
L2001	CNT	992	4971 D1BC	37.2218	-116.0600	1.5200	NNSS-SPE Line 2 site 01
L2001	CLZ	993	225358-15 D1BC	37.2218	-116.0600	1.5200	NNSS-SPE Line 2 site 01
L2001	CLR	994	225358-15 D1BC	37.2218	-116.0600	1.5200	NNSS-SPE Line 2 site 01
L2001	CLT	995	225358-15 D1BC	37.2218	-116.0600	1.5200	NNSS-SPE Line 2 site 01
L2001	CNZ	996	4971 D1BC	37.2218	-116.0600	1.5200	NNSS-SPE Line 2 site 01

Appendix 7
Selected Metadata for SPE-6 Surface Stations

Station ID	Channel	Channel ID	Description	Estimated Latitude	Estimated Longitude	Elevation km (amsl)	Location
L2001	CNR	997	4971 D1BC	37.2218	-116.0600	1.5200	NNSS-SPE Line 2 site 01
L2001	CNT	998	4971 D1BC	37.2218	-116.0600	1.5200	NNSS-SPE Line 2 site 01
L2001	CLZ	999	225358-15 D1BC	37.2218	-116.0600	1.5200	NNSS-SPE Line 2 site 01
L2001	CLR	1000	225358-15 D1BC	37.2218	-116.0600	1.5200	NNSS-SPE Line 2 site 01
L2001	CLT	1001	225358-15 D1BC	37.2218	-116.0600	1.5200	NNSS-SPE Line 2 site 01
L2001	CLZ	1002	225358-15 D1BC	37.2218	-116.0600	1.5200	NNSS-SPE Line 2 site 01
L2001	CLR	1003	225358-15 D1BC	37.2218	-116.0600	1.5200	NNSS-SPE Line 2 site 01
L2001	CLT	1004	225358-15 D1BC	37.2218	-116.0600	1.5200	NNSS-SPE Line 2 site 01
L2001	CNZ	1005	4971 D1BC	37.2218	-116.0600	1.5200	NNSS-SPE Line 2 site 01
L2001	CNR	1006	4971 D1BC	37.2218	-116.0600	1.5200	NNSS-SPE Line 2 site 01
L2001	CNT	1007	4971 D1BC	37.2218	-116.0600	1.5200	NNSS-SPE Line 2 site 01
L2001	CLZ	1008	214830-09 D1BC	37.2218	-116.0600	1.5200	NNSS-SPE Line 2 site 01
L2001	CLR	1009	214830-09 D1BC	37.2218	-116.0600	1.5200	NNSS-SPE Line 2 site 01
L2001	CLT	1010	214830-09 D1BC	37.2218	-116.0600	1.5200	NNSS-SPE Line 2 site 01
L2001	CNZ	1011	4971 D1BC	37.2218	-116.0600	1.5200	NNSS-SPE Line 2 site 01
L2001	CNR	1012	4971 D1BC	37.2218	-116.0600	1.5200	NNSS-SPE Line 2 site 01
L2001	CNT	1013	4971 D1BC	37.2218	-116.0600	1.5200	NNSS-SPE Line 2 site 01
L2002	CLZ	1014	79 AF07	37.2224	-116.0592	1.5150	NNSS-SPE Line 2 site 02
L2002	CLZ	1015	79 AF07	37.2224	-116.0592	1.5150	NNSS-SPE Line 2 site 02
L2002	CLZ	1016	79 AF07	37.2224	-116.0592	1.5150	NNSS-SPE Line 2 site 02
L2002	CLZ	1017	79 AF07	37.2224	-116.0592	1.5150	NNSS-SPE Line 2 site 02
L2002	CLZ	1018	79 AF07	37.2224	-116.0592	1.5150	NNSS-SPE Line 2 site 02
L2002	CLZ	1019	79 AF07	37.2224	-116.0592	1.5150	NNSS-SPE Line 2 site 02
L2002	CLZ	1020	79 B3B2	37.2224	-116.0592	1.5150	NNSS-SPE Line 2 site 02
L2002	CLR	1021	79 B3B2	37.2224	-116.0592	1.5150	NNSS-SPE Line 2 site 02
L2002	CLT	1022	79 B3B2	37.2224	-116.0592	1.5150	NNSS-SPE Line 2 site 02
L2002	CLZ	1023	79 B3B2	37.2224	-116.0592	1.5150	NNSS-SPE Line 2 site 02
L2002	CLR	1024	79 B3B2	37.2224	-116.0592	1.5150	NNSS-SPE Line 2 site 02
L2002	CLT	1025	79 B3B2	37.2224	-116.0592	1.5150	NNSS-SPE Line 2 site 02
L2002	CLZ	1026	79 BCB7	37.2224	-116.0592	1.5150	NNSS-SPE Line 2 site 02
L2002	CLR	1027	79 BCB7	37.2224	-116.0592	1.5150	NNSS-SPE Line 2 site 02

Appendix 7
Selected Metadata for SPE-6 Surface Stations

Station ID	Channel	Channel ID	Description	Estimated Latitude	Estimated Longitude	Elevation km (amsl)	Location
L2002	CLT	1028	79 BCB7	37.2224	-116.0592	1.5150	NNSS-SPE Line 2 site 02
L2002	CLZ	1029	225358-12 BCB7	37.2224	-116.0592	1.5150	NNSS-SPE Line 2 site 02
L2002	CLR	1030	225358-12 BCB7	37.2224	-116.0592	1.5150	NNSS-SPE Line 2 site 02
L2002	CLT	1031	225358-12 BCB7	37.2224	-116.0592	1.5150	NNSS-SPE Line 2 site 02
L2002	CLZ	1032	225358-12 BCD3	37.2224	-116.0592	1.5150	NNSS-SPE Line 2 site 02
L2002	CLR	1033	225358-12 BCD3	37.2224	-116.0592	1.5150	NNSS-SPE Line 2 site 02
L2002	CLT	1034	225358-12 BCD3	37.2224	-116.0592	1.5150	NNSS-SPE Line 2 site 02
L2002	CNZ	1035	3275 BCD3	37.2224	-116.0592	1.5150	NNSS-SPE Line 2 site 02
L2002	CNR	1036	3275 BCD3	37.2224	-116.0592	1.5150	NNSS-SPE Line 2 site 02
L2002	CNT	1037	3275 BCD3	37.2224	-116.0592	1.5150	NNSS-SPE Line 2 site 02
L2002	CLZ	1038	225358-12 BCD3	37.2224	-116.0592	1.5150	NNSS-SPE Line 2 site 02
L2002	CLR	1039	225358-12 BCD3	37.2224	-116.0592	1.5150	NNSS-SPE Line 2 site 02
L2002	CLT	1040	225358-12 BCD3	37.2224	-116.0592	1.5150	NNSS-SPE Line 2 site 02
L2002	CNZ	1041	3275 BCD3	37.2224	-116.0592	1.5150	NNSS-SPE Line 2 site 02
L2002	CNR	1042	3275 BCD3	37.2224	-116.0592	1.5150	NNSS-SPE Line 2 site 02
L2002	CNT	1043	3275 BCD3	37.2224	-116.0592	1.5150	NNSS-SPE Line 2 site 02
L2002	CLZ	1044	225358-12 BCD3	37.2224	-116.0592	1.5150	NNSS-SPE Line 2 site 02
L2002	CLR	1045	225358-12 BCD3	37.2224	-116.0592	1.5150	NNSS-SPE Line 2 site 02
L2002	CLT	1046	225358-12 BCD3	37.2224	-116.0592	1.5150	NNSS-SPE Line 2 site 02
L2002	CLZ	1047	225358-12 BCD3	37.2224	-116.0592	1.5150	NNSS-SPE Line 2 site 02
L2002	CLR	1048	225358-12 BCD3	37.2224	-116.0592	1.5150	NNSS-SPE Line 2 site 02
L2002	CLT	1049	225358-12 BCD3	37.2224	-116.0592	1.5150	NNSS-SPE Line 2 site 02
L2002	CNZ	1050	3275 BCD3	37.2224	-116.0592	1.5150	NNSS-SPE Line 2 site 02
L2002	CNR	1051	3275 BCD3	37.2224	-116.0592	1.5150	NNSS-SPE Line 2 site 02
L2002	CNT	1052	3275 BCD3	37.2224	-116.0592	1.5150	NNSS-SPE Line 2 site 02
L2002	CLZ	1053	225358-12 BCD3	37.2224	-116.0592	1.5150	NNSS-SPE Line 2 site 02
L2002	CLR	1054	225358-12 BCD3	37.2224	-116.0592	1.5150	NNSS-SPE Line 2 site 02
L2002	CLT	1055	225358-12 BCD3	37.2224	-116.0592	1.5150	NNSS-SPE Line 2 site 02
L2002	CNZ	1056	3275 BCD3	37.2224	-116.0592	1.5150	NNSS-SPE Line 2 site 02
L2002	CNR	1057	3275 BCD3	37.2224	-116.0592	1.5150	NNSS-SPE Line 2 site 02
L2002	CNT	1058	3275 BCD3	37.2224	-116.0592	1.5150	NNSS-SPE Line 2 site 02

Appendix 7
Selected Metadata for SPE-6 Surface Stations

Station ID	Channel	Channel ID	Description	Estimated Latitude	Estimated Longitude	Elevation km (amsl)	Location
L2002	CLZ	1059	225358-12 BCD3	37.2224	-116.0592	1.5150	NNSS-SPE Line 2 site 02
L2002	CLR	1060	225358-12 BCD3	37.2224	-116.0592	1.5150	NNSS-SPE Line 2 site 02
L2002	CLT	1061	225358-12 BCD3	37.2224	-116.0592	1.5150	NNSS-SPE Line 2 site 02
L2003	CLZ	1062	18 AF07	37.2229	-116.0583	1.5280	NNSS-SPE Line 2 site 03
L2003	CLZ	1063	18 AF07	37.2229	-116.0583	1.5280	NNSS-SPE Line 2 site 03
L2003	CLZ	1064	18 AF07	37.2229	-116.0583	1.5280	NNSS-SPE Line 2 site 03
L2003	CLZ	1065	18 AF07	37.2229	-116.0583	1.5280	NNSS-SPE Line 2 site 03
L2003	CLZ	1066	18 AF07	37.2229	-116.0583	1.5280	NNSS-SPE Line 2 site 03
L2003	CLZ	1067	18 AF07	37.2229	-116.0583	1.5280	NNSS-SPE Line 2 site 03
L2003	CLZ	1068	18 AF07	37.2229	-116.0583	1.5280	NNSS-SPE Line 2 site 03
L2003	CLR	1069	18 AF07	37.2229	-116.0583	1.5280	NNSS-SPE Line 2 site 03
L2003	CLT	1070	18 AF07	37.2229	-116.0583	1.5280	NNSS-SPE Line 2 site 03
L2003	CLZ	1071	18 AF07	37.2229	-116.0583	1.5280	NNSS-SPE Line 2 site 03
L2003	CLR	1072	18 AF07	37.2229	-116.0583	1.5280	NNSS-SPE Line 2 site 03
L2003	CLT	1073	18 AF07	37.2229	-116.0583	1.5280	NNSS-SPE Line 2 site 03
L2003	CLZ	1074	214830-05 AF07	37.2229	-116.0583	1.5280	NNSS-SPE Line 2 site 03
L2003	CLR	1075	214830-05 AF07	37.2229	-116.0583	1.5280	NNSS-SPE Line 2 site 03
L2003	CLT	1076	214830-05 AF07	37.2229	-116.0583	1.5280	NNSS-SPE Line 2 site 03
L2003	CLZ	1077	214830-05 BEC9	37.2229	-116.0583	1.5280	NNSS-SPE Line 2 site 03
L2003	CLR	1078	214830-05 BEC9	37.2229	-116.0583	1.5280	NNSS-SPE Line 2 site 03
L2003	CLT	1079	214830-05 BEC9	37.2229	-116.0583	1.5280	NNSS-SPE Line 2 site 03
L2003	CLZ	1080	225358-11 BCCE	37.2229	-116.0583	1.5280	NNSS-SPE Line 2 site 03
L2003	CLR	1081	225358-11 BCCE	37.2229	-116.0583	1.5280	NNSS-SPE Line 2 site 03
L2003	CLT	1082	225358-11 BCCE	37.2229	-116.0583	1.5280	NNSS-SPE Line 2 site 03
L2003	CLZ	1083	225358-11 D15B	37.2229	-116.0583	1.5280	NNSS-SPE Line 2 site 03
L2003	CLR	1084	225358-11 D15B	37.2229	-116.0583	1.5280	NNSS-SPE Line 2 site 03
L2003	CLT	1085	225358-11 D15B	37.2229	-116.0583	1.5280	NNSS-SPE Line 2 site 03
L2003	CNZ	1086	175 D15B	37.2229	-116.0583	1.5280	NNSS-SPE Line 2 site 03
L2003	CNR	1087	175 D15B	37.2229	-116.0583	1.5280	NNSS-SPE Line 2 site 03
L2003	CNT	1088	175 D15B	37.2229	-116.0583	1.5280	NNSS-SPE Line 2 site 03
L2003	CLZ	1089	225358-11 D15B	37.2229	-116.0583	1.5280	NNSS-SPE Line 2 site 03

Appendix 7
Selected Metadata for SPE-6 Surface Stations

Station ID	Channel	Channel ID	Description	Estimated Latitude	Estimated Longitude	Elevation km (amsl)	Location
L2003	CLR	1090	225358-11 D15B	37.2229	-116.0583	1.5280	NNSS-SPE Line 2 site 03
L2003	CLT	1091	225358-11 D15B	37.2229	-116.0583	1.5280	NNSS-SPE Line 2 site 03
L2003	CNZ	1092	175 D15B	37.2229	-116.0583	1.5280	NNSS-SPE Line 2 site 03
L2003	CNR	1093	175 D15B	37.2229	-116.0583	1.5280	NNSS-SPE Line 2 site 03
L2003	CNT	1094	175 D15B	37.2229	-116.0583	1.5280	NNSS-SPE Line 2 site 03
L2003	CLZ	1095	225358-11 D15B	37.2229	-116.0583	1.5280	NNSS-SPE Line 2 site 03
L2003	CLR	1096	225358-11 D15B	37.2229	-116.0583	1.5280	NNSS-SPE Line 2 site 03
L2003	CLT	1097	225358-11 D15B	37.2229	-116.0583	1.5280	NNSS-SPE Line 2 site 03
L2003	CLZ	1098	225358-11 D15B	37.2229	-116.0583	1.5280	NNSS-SPE Line 2 site 03
L2003	CLR	1099	225358-11 D15B	37.2229	-116.0583	1.5280	NNSS-SPE Line 2 site 03
L2003	CLT	1100	225358-11 D15B	37.2229	-116.0583	1.5280	NNSS-SPE Line 2 site 03
L2003	CNZ	1101	175 D15B	37.2229	-116.0583	1.5280	NNSS-SPE Line 2 site 03
L2003	CNR	1102	175 D15B	37.2229	-116.0583	1.5280	NNSS-SPE Line 2 site 03
L2003	CNT	1103	175 D15B	37.2229	-116.0583	1.5280	NNSS-SPE Line 2 site 03
L2003	CLZ	1104	225358-11 D15B	37.2229	-116.0583	1.5280	NNSS-SPE Line 2 site 03
L2003	CLR	1105	225358-11 D15B	37.2229	-116.0583	1.5280	NNSS-SPE Line 2 site 03
L2003	CLT	1106	225358-11 D15B	37.2229	-116.0583	1.5280	NNSS-SPE Line 2 site 03
L2003	CNZ	1107	175 D15B	37.2229	-116.0583	1.5280	NNSS-SPE Line 2 site 03
L2003	CNR	1108	175 D15B	37.2229	-116.0583	1.5280	NNSS-SPE Line 2 site 03
L2003	CNT	1109	175 D15B	37.2229	-116.0583	1.5280	NNSS-SPE Line 2 site 03
L2004	CLZ	1110	29 AF07	37.2235	-116.0575	1.5280	NNSS-SPE Line 2 site 04
L2004	CLR	1111	29 AF07	37.2235	-116.0575	1.5280	NNSS-SPE Line 2 site 04
L2004	CLT	1112	29 AF07	37.2235	-116.0575	1.5280	NNSS-SPE Line 2 site 04
L2004	CLZ	1113	29 AF07	37.2235	-116.0575	1.5280	NNSS-SPE Line 2 site 04
L2004	CLR	1114	29 AF07	37.2235	-116.0575	1.5280	NNSS-SPE Line 2 site 04
L2004	CLT	1115	29 AF07	37.2235	-116.0575	1.5280	NNSS-SPE Line 2 site 04
L2004	CLZ	1116	29 AF07	37.2235	-116.0575	1.5280	NNSS-SPE Line 2 site 04
L2004	CLR	1117	29 AF07	37.2235	-116.0575	1.5280	NNSS-SPE Line 2 site 04
L2004	CLT	1118	29 AF07	37.2235	-116.0575	1.5280	NNSS-SPE Line 2 site 04
L2004	CLZ	1119	29 AF07	37.2235	-116.0575	1.5280	NNSS-SPE Line 2 site 04
L2004	CLR	1120	29 AF07	37.2235	-116.0575	1.5280	NNSS-SPE Line 2 site 04

Appendix 7
Selected Metadata for SPE-6 Surface Stations

Station ID	Channel	Channel ID	Description	Estimated Latitude	Estimated Longitude	Elevation km (amsl)	Location
L2004	CLT	1121	29 AF07	37.2235	-116.0575	1.5280	NNSS-SPE Line 2 site 04
L2004	CLZ	1122	29 AF07	37.2235	-116.0575	1.5280	NNSS-SPE Line 2 site 04
L2004	CLR	1123	29 AF07	37.2235	-116.0575	1.5280	NNSS-SPE Line 2 site 04
L2004	CLT	1124	29 AF07	37.2235	-116.0575	1.5280	NNSS-SPE Line 2 site 04
L2004	CLZ	1125	29 AF07	37.2235	-116.0575	1.5280	NNSS-SPE Line 2 site 04
L2004	CLR	1126	29 AF07	37.2235	-116.0575	1.5280	NNSS-SPE Line 2 site 04
L2004	CLT	1127	29 AF07	37.2235	-116.0575	1.5280	NNSS-SPE Line 2 site 04
L2004	CLZ	1128	29 AF07	37.2235	-116.0575	1.5280	NNSS-SPE Line 2 site 04
L2004	CLR	1129	29 AF07	37.2235	-116.0575	1.5280	NNSS-SPE Line 2 site 04
L2004	CLT	1130	29 AF07	37.2235	-116.0575	1.5280	NNSS-SPE Line 2 site 04
L2004	CLZ	1131	29 AF07	37.2235	-116.0575	1.5280	NNSS-SPE Line 2 site 04
L2004	CLR	1132	29 AF07	37.2235	-116.0575	1.5280	NNSS-SPE Line 2 site 04
L2004	CLT	1133	29 AF07	37.2235	-116.0575	1.5280	NNSS-SPE Line 2 site 04
L2004	CLZ	1134	29 AF07	37.2235	-116.0575	1.5280	NNSS-SPE Line 2 site 04
L2004	CLR	1135	29 AF07	37.2235	-116.0575	1.5280	NNSS-SPE Line 2 site 04
L2004	CLT	1136	29 AF07	37.2235	-116.0575	1.5280	NNSS-SPE Line 2 site 04
L2004	CLZ	1137	29 BEC9	37.2235	-116.0575	1.5280	NNSS-SPE Line 2 site 04
L2004	CLR	1138	29 BEC9	37.2235	-116.0575	1.5280	NNSS-SPE Line 2 site 04
L2004	CLT	1139	29 BEC9	37.2235	-116.0575	1.5280	NNSS-SPE Line 2 site 04
L2004	CLZ	1140	225358-26 BCCE	37.2235	-116.0575	1.5280	NNSS-SPE Line 2 site 04
L2004	CLR	1141	225358-26 BCCE	37.2235	-116.0575	1.5280	NNSS-SPE Line 2 site 04
L2004	CLT	1142	225358-26 BCCE	37.2235	-116.0575	1.5280	NNSS-SPE Line 2 site 04
L2004	CLZ	1143	225358-26 BCCE	37.2235	-116.0575	1.5280	NNSS-SPE Line 2 site 04
L2004	CLR	1144	225358-26 BCCE	37.2235	-116.0575	1.5280	NNSS-SPE Line 2 site 04
L2004	CLT	1145	225358-26 BCCE	37.2235	-116.0575	1.5280	NNSS-SPE Line 2 site 04
L2004	CLZ	1146	225358-26 BCCE	37.2235	-116.0575	1.5280	NNSS-SPE Line 2 site 04
L2004	CLR	1147	225358-26 BCCE	37.2235	-116.0575	1.5280	NNSS-SPE Line 2 site 04
L2004	CLT	1148	225358-26 BCCE	37.2235	-116.0575	1.5280	NNSS-SPE Line 2 site 04
L2004	CLZ	1149	225358-26 BCCE	37.2235	-116.0575	1.5280	NNSS-SPE Line 2 site 04
L2004	CLR	1150	225358-26 BCCE	37.2235	-116.0575	1.5280	NNSS-SPE Line 2 site 04
L2004	CLT	1151	225358-26 BCCE	37.2235	-116.0575	1.5280	NNSS-SPE Line 2 site 04

Appendix 7
Selected Metadata for SPE-6 Surface Stations

Station ID	Channel	Channel ID	Description	Estimated Latitude	Estimated Longitude	Elevation km (amsl)	Location
L2004	CLZ	1152	225358-31 BCCE	37.2235	-116.0575	1.5280	NNSS-SPE Line 2 site 04
L2004	CLR	1153	225358-31 BCCE	37.2235	-116.0575	1.5280	NNSS-SPE Line 2 site 04
L2004	CLT	1154	225358-31 BCCE	37.2235	-116.0575	1.5280	NNSS-SPE Line 2 site 04
L2005	CLZ	1155	12 9E1D	37.2241	-116.0566	1.5320	NNSS-SPE Line 2 site 05
L2005	CLZ	1156	12 9E1D	37.2241	-116.0566	1.5320	NNSS-SPE Line 2 site 05
L2005	CLZ	1157	12 9E1D	37.2241	-116.0566	1.5320	NNSS-SPE Line 2 site 05
L2005	CLZ	1158	12 9E1D	37.2241	-116.0566	1.5320	NNSS-SPE Line 2 site 05
L2005	CLZ	1159	12 9E1D	37.2241	-116.0566	1.5320	NNSS-SPE Line 2 site 05
L2005	CLZ	1160	12 9E1D	37.2241	-116.0566	1.5320	NNSS-SPE Line 2 site 05
L2005	CLZ	1161	12 9E2B	37.2241	-116.0566	1.5320	NNSS-SPE Line 2 site 05
L2005	CLR	1162	12 9E2B	37.2241	-116.0566	1.5320	NNSS-SPE Line 2 site 05
L2005	CLT	1163	12 9E2B	37.2241	-116.0566	1.5320	NNSS-SPE Line 2 site 05
L2005	CLZ	1164	12 9E2B	37.2241	-116.0566	1.5320	NNSS-SPE Line 2 site 05
L2005	CLR	1165	12 9E2B	37.2241	-116.0566	1.5320	NNSS-SPE Line 2 site 05
L2005	CLT	1166	12 9E2B	37.2241	-116.0566	1.5320	NNSS-SPE Line 2 site 05
L2005	CLZ	1167	12 AF0C	37.2241	-116.0566	1.5320	NNSS-SPE Line 2 site 05
L2005	CLR	1168	12 AF0C	37.2241	-116.0566	1.5320	NNSS-SPE Line 2 site 05
L2005	CLT	1169	12 AF0C	37.2241	-116.0566	1.5320	NNSS-SPE Line 2 site 05
L2005	CLZ	1170	12 AF0C	37.2241	-116.0566	1.5320	NNSS-SPE Line 2 site 05
L2005	CLR	1171	12 AF0C	37.2241	-116.0566	1.5320	NNSS-SPE Line 2 site 05
L2005	CLT	1172	12 AF0C	37.2241	-116.0566	1.5320	NNSS-SPE Line 2 site 05
L2005	CLZ	1173	12 AF0C	37.2241	-116.0566	1.5320	NNSS-SPE Line 2 site 05
L2005	CLR	1174	12 AF0C	37.2241	-116.0566	1.5320	NNSS-SPE Line 2 site 05
L2005	CLT	1175	12 AF0C	37.2241	-116.0566	1.5320	NNSS-SPE Line 2 site 05
L2005	CLZ	1176	12 AF0C	37.2241	-116.0566	1.5320	NNSS-SPE Line 2 site 05
L2005	CLR	1177	12 AF0C	37.2241	-116.0566	1.5320	NNSS-SPE Line 2 site 05
L2005	CLT	1178	12 AF0C	37.2241	-116.0566	1.5320	NNSS-SPE Line 2 site 05
L2005	CLZ	1179	12 AF0C	37.2241	-116.0566	1.5320	NNSS-SPE Line 2 site 05
L2005	CLR	1180	12 AF0C	37.2241	-116.0566	1.5320	NNSS-SPE Line 2 site 05
L2005	CLT	1181	12 AF0C	37.2241	-116.0566	1.5320	NNSS-SPE Line 2 site 05
L2005	CLZ	1182	225358-25 AF0C	37.2241	-116.0566	1.5320	NNSS-SPE Line 2 site 05

Appendix 7
Selected Metadata for SPE-6 Surface Stations

Station ID	Channel	Channel ID	Description	Estimated Latitude	Estimated Longitude	Elevation km (amsl)	Location
L2005	CLR	1183	225358-25 AF0C	37.2241	-116.0566	1.5320	NNSS-SPE Line 2 site 05
L2005	CLT	1184	225358-25 AF0C	37.2241	-116.0566	1.5320	NNSS-SPE Line 2 site 05
L2006	CLZ	1185	92 9E1D	37.2247	-116.0558	1.5310	NNSS-SPE Line 2 site 06
L2006	CLZ	1186	92 9E1D	37.2247	-116.0558	1.5310	NNSS-SPE Line 2 site 06
L2006	CLZ	1187	92 9E1D	37.2247	-116.0558	1.5310	NNSS-SPE Line 2 site 06
L2006	CLZ	1188	92 9E1D	37.2247	-116.0558	1.5310	NNSS-SPE Line 2 site 06
L2006	CLZ	1189	92 9E1D	37.2247	-116.0558	1.5310	NNSS-SPE Line 2 site 06
L2006	CLZ	1190	92 9E1D	37.2247	-116.0558	1.5310	NNSS-SPE Line 2 site 06
L2006	CLZ	1191	92 9E2B	37.2247	-116.0558	1.5310	NNSS-SPE Line 2 site 06
L2006	CLR	1192	92 9E2B	37.2247	-116.0558	1.5310	NNSS-SPE Line 2 site 06
L2006	CLT	1193	92 9E2B	37.2247	-116.0558	1.5310	NNSS-SPE Line 2 site 06
L2006	CLZ	1194	92 9E2B	37.2247	-116.0558	1.5310	NNSS-SPE Line 2 site 06
L2006	CLR	1195	92 9E2B	37.2247	-116.0558	1.5310	NNSS-SPE Line 2 site 06
L2006	CLT	1196	92 9E2B	37.2247	-116.0558	1.5310	NNSS-SPE Line 2 site 06
L2006	CLZ	1197	92 AF0C	37.2247	-116.0558	1.5310	NNSS-SPE Line 2 site 06
L2006	CLR	1198	92 AF0C	37.2247	-116.0558	1.5310	NNSS-SPE Line 2 site 06
L2006	CLT	1199	92 AF0C	37.2247	-116.0558	1.5310	NNSS-SPE Line 2 site 06
L2006	CLZ	1200	92 AF0C	37.2247	-116.0558	1.5310	NNSS-SPE Line 2 site 06
L2006	CLR	1201	92 AF0C	37.2247	-116.0558	1.5310	NNSS-SPE Line 2 site 06
L2006	CLT	1202	92 AF0C	37.2247	-116.0558	1.5310	NNSS-SPE Line 2 site 06
L2006	CLZ	1203	92 AF0C	37.2247	-116.0558	1.5310	NNSS-SPE Line 2 site 06
L2006	CLR	1204	92 AF0C	37.2247	-116.0558	1.5310	NNSS-SPE Line 2 site 06
L2006	CLT	1205	92 AF0C	37.2247	-116.0558	1.5310	NNSS-SPE Line 2 site 06
L2006	CLZ	1206	92 AF0C	37.2247	-116.0558	1.5310	NNSS-SPE Line 2 site 06
L2006	CLR	1207	92 AF0C	37.2247	-116.0558	1.5310	NNSS-SPE Line 2 site 06
L2006	CLT	1208	92 AF0C	37.2247	-116.0558	1.5310	NNSS-SPE Line 2 site 06
L2006	CLZ	1209	92 AF0C	37.2247	-116.0558	1.5310	NNSS-SPE Line 2 site 06
L2006	CLR	1210	92 AF0C	37.2247	-116.0558	1.5310	NNSS-SPE Line 2 site 06
L2006	CLT	1211	92 AF0C	37.2247	-116.0558	1.5310	NNSS-SPE Line 2 site 06
L2006	CLZ	1212	92 AF0C	37.2247	-116.0558	1.5310	NNSS-SPE Line 2 site 06
L2006	CLR	1213	92 AF0C	37.2247	-116.0558	1.5310	NNSS-SPE Line 2 site 06

Appendix 7
Selected Metadata for SPE-6 Surface Stations

Station ID	Channel	Channel ID	Description	Estimated Latitude	Estimated Longitude	Elevation km (amsl)	Location
L2006	CLT	1214	92 AF0C	37.2247	-116.0558	1.5310	NNSS-SPE Line 2 site 06
L2007	CLZ	1215	22 9E1D	37.2253	-116.0549	1.5300	NNSS-SPE Line 2 site 07
L2007	CLZ	1216	22 9E1D	37.2253	-116.0549	1.5300	NNSS-SPE Line 2 site 07
L2007	CLZ	1217	22 9E1D	37.2253	-116.0549	1.5300	NNSS-SPE Line 2 site 07
L2007	CLZ	1218	22 9E1D	37.2253	-116.0549	1.5300	NNSS-SPE Line 2 site 07
L2007	CLZ	1219	22 9E1D	37.2253	-116.0549	1.5300	NNSS-SPE Line 2 site 07
L2007	CLZ	1220	22 9E1D	37.2253	-116.0549	1.5300	NNSS-SPE Line 2 site 07
L2007	CLZ	1221	22 9E1D	37.2253	-116.0549	1.5300	NNSS-SPE Line 2 site 07
L2007	CLR	1222	22 9E1D	37.2253	-116.0549	1.5300	NNSS-SPE Line 2 site 07
L2007	CLT	1223	22 9E1D	37.2253	-116.0549	1.5300	NNSS-SPE Line 2 site 07
L2007	CLZ	1224	22 9E1D	37.2253	-116.0549	1.5300	NNSS-SPE Line 2 site 07
L2007	CLR	1225	22 9E1D	37.2253	-116.0549	1.5300	NNSS-SPE Line 2 site 07
L2007	CLT	1226	22 9E1D	37.2253	-116.0549	1.5300	NNSS-SPE Line 2 site 07
L2007	CLZ	1227	22 B3B5	37.2253	-116.0549	1.5300	NNSS-SPE Line 2 site 07
L2007	CLR	1228	22 B3B5	37.2253	-116.0549	1.5300	NNSS-SPE Line 2 site 07
L2007	CLT	1229	22 B3B5	37.2253	-116.0549	1.5300	NNSS-SPE Line 2 site 07
L2007	CLZ	1230	22 B3B5	37.2253	-116.0549	1.5300	NNSS-SPE Line 2 site 07
L2007	CLR	1231	22 B3B5	37.2253	-116.0549	1.5300	NNSS-SPE Line 2 site 07
L2007	CLT	1232	22 B3B5	37.2253	-116.0549	1.5300	NNSS-SPE Line 2 site 07
L2007	CLZ	1233	225358-48 B3B5	37.2253	-116.0549	1.5300	NNSS-SPE Line 2 site 07
L2007	CLR	1234	225358-48 B3B5	37.2253	-116.0549	1.5300	NNSS-SPE Line 2 site 07
L2007	CLT	1235	225358-48 B3B5	37.2253	-116.0549	1.5300	NNSS-SPE Line 2 site 07
L2007	CLZ	1236	225358-48 B3B5	37.2253	-116.0549	1.5300	NNSS-SPE Line 2 site 07
L2007	CLR	1237	225358-48 B3B5	37.2253	-116.0549	1.5300	NNSS-SPE Line 2 site 07
L2007	CLT	1238	225358-48 B3B5	37.2253	-116.0549	1.5300	NNSS-SPE Line 2 site 07
L2007	CLZ	1239	225358-48 B3B5	37.2253	-116.0549	1.5300	NNSS-SPE Line 2 site 07
L2007	CLR	1240	225358-48 B3B5	37.2253	-116.0549	1.5300	NNSS-SPE Line 2 site 07
L2007	CLT	1241	225358-48 B3B5	37.2253	-116.0549	1.5300	NNSS-SPE Line 2 site 07
L2007	CLZ	1242	225358-48 B3B5	37.2253	-116.0549	1.5300	NNSS-SPE Line 2 site 07
L2007	CLR	1243	225358-48 B3B5	37.2253	-116.0549	1.5300	NNSS-SPE Line 2 site 07
L2007	CLT	1244	225358-48 B3B5	37.2253	-116.0549	1.5300	NNSS-SPE Line 2 site 07

Appendix 7
Selected Metadata for SPE-6 Surface Stations

Station ID	Channel	Channel ID	Description	Estimated Latitude	Estimated Longitude	Elevation km (amsl)	Location
L2007	CLZ	1245	225358-18 B3B5	37.2253	-116.0549	1.5300	NNSS-SPE Line 2 site 07
L2007	CLR	1246	225358-18 B3B5	37.2253	-116.0549	1.5300	NNSS-SPE Line 2 site 07
L2007	CLT	1247	225358-18 B3B5	37.2253	-116.0549	1.5300	NNSS-SPE Line 2 site 07
L2008	CLZ	1248	4 9E1D	37.2259	-116.0541	1.5300	NNSS-SPE Line 2 site 08
L2008	CLR	1249	4 9E1D	37.2259	-116.0541	1.5300	NNSS-SPE Line 2 site 08
L2008	CLT	1250	4 9E1D	37.2259	-116.0541	1.5300	NNSS-SPE Line 2 site 08
L2008	CLZ	1251	4 9E1D	37.2259	-116.0541	1.5300	NNSS-SPE Line 2 site 08
L2008	CLR	1252	4 9E1D	37.2259	-116.0541	1.5300	NNSS-SPE Line 2 site 08
L2008	CLT	1253	4 9E1D	37.2259	-116.0541	1.5300	NNSS-SPE Line 2 site 08
L2008	CLZ	1254	4 9E1D	37.2259	-116.0541	1.5300	NNSS-SPE Line 2 site 08
L2008	CLR	1255	4 9E1D	37.2259	-116.0541	1.5300	NNSS-SPE Line 2 site 08
L2008	CLT	1256	4 9E1D	37.2259	-116.0541	1.5300	NNSS-SPE Line 2 site 08
L2008	CLZ	1257	4 9E1D	37.2259	-116.0541	1.5300	NNSS-SPE Line 2 site 08
L2008	CLR	1258	4 9E1D	37.2259	-116.0541	1.5300	NNSS-SPE Line 2 site 08
L2008	CLT	1259	4 9E1D	37.2259	-116.0541	1.5300	NNSS-SPE Line 2 site 08
L2008	CLZ	1260	4 9E1D	37.2259	-116.0541	1.5300	NNSS-SPE Line 2 site 08
L2008	CLR	1261	4 9E1D	37.2259	-116.0541	1.5300	NNSS-SPE Line 2 site 08
L2008	CLT	1262	4 9E1D	37.2259	-116.0541	1.5300	NNSS-SPE Line 2 site 08
L2008	CLZ	1263	4 9E1D	37.2259	-116.0541	1.5300	NNSS-SPE Line 2 site 08
L2008	CLR	1264	4 9E1D	37.2259	-116.0541	1.5300	NNSS-SPE Line 2 site 08
L2008	CLT	1265	4 9E1D	37.2259	-116.0541	1.5300	NNSS-SPE Line 2 site 08
L2008	CLZ	1266	4 9E1D	37.2259	-116.0541	1.5300	NNSS-SPE Line 2 site 08
L2008	CLR	1267	4 9E1D	37.2259	-116.0541	1.5300	NNSS-SPE Line 2 site 08
L2008	CLT	1268	4 9E1D	37.2259	-116.0541	1.5300	NNSS-SPE Line 2 site 08
L2008	CLZ	1269	4 9E1D	37.2259	-116.0541	1.5300	NNSS-SPE Line 2 site 08
L2008	CLR	1270	4 9E1D	37.2259	-116.0541	1.5300	NNSS-SPE Line 2 site 08
L2008	CLT	1271	4 9E1D	37.2259	-116.0541	1.5300	NNSS-SPE Line 2 site 08
L2008	CLZ	1272	214830-13 B3B5	37.2259	-116.0541	1.5300	NNSS-SPE Line 2 site 08
L2008	CLR	1273	214830-13 B3B5	37.2259	-116.0541	1.5300	NNSS-SPE Line 2 site 08
L2008	CLT	1274	214830-13 B3B5	37.2259	-116.0541	1.5300	NNSS-SPE Line 2 site 08
L2008	CLZ	1275	214830-13 B3B5	37.2259	-116.0541	1.5300	NNSS-SPE Line 2 site 08

Appendix 7
Selected Metadata for SPE-6 Surface Stations

Station ID	Channel	Channel ID	Description	Estimated Latitude	Estimated Longitude	Elevation km (amsl)	Location
L2008	CLR	1276	214830-13 B3B5	37.2259	-116.0541	1.5300	NNSS-SPE Line 2 site 08
L2008	CLT	1277	214830-13 B3B5	37.2259	-116.0541	1.5300	NNSS-SPE Line 2 site 08
L2008	CLZ	1278	13 B3B5	37.2259	-116.0541	1.5300	NNSS-SPE Line 2 site 08
L2008	CLR	1279	13 B3B5	37.2259	-116.0541	1.5300	NNSS-SPE Line 2 site 08
L2008	CLT	1280	13 B3B5	37.2259	-116.0541	1.5300	NNSS-SPE Line 2 site 08
L2008	CLZ	1281	13 B3B5	37.2259	-116.0541	1.5300	NNSS-SPE Line 2 site 08
L2008	CLR	1282	13 B3B5	37.2259	-116.0541	1.5300	NNSS-SPE Line 2 site 08
L2008	CLT	1283	13 B3B5	37.2259	-116.0541	1.5300	NNSS-SPE Line 2 site 08
L2008	CLZ	1284	13 B3B5	37.2259	-116.0541	1.5300	NNSS-SPE Line 2 site 08
L2008	CLR	1285	13 B3B5	37.2259	-116.0541	1.5300	NNSS-SPE Line 2 site 08
L2008	CLT	1286	13 B3B5	37.2259	-116.0541	1.5300	NNSS-SPE Line 2 site 08
L2008	CLZ	1287	62 B3B5	37.2259	-116.0541	1.5300	NNSS-SPE Line 2 site 08
L2008	CLR	1288	62 B3B5	37.2259	-116.0541	1.5300	NNSS-SPE Line 2 site 08
L2008	CLT	1289	62 B3B5	37.2259	-116.0541	1.5300	NNSS-SPE Line 2 site 08
L2009	CLZ	1290	15 9DE6	37.2265	-116.0533	1.5370	NNSS-SPE Line 2 site 09
L2009	CLZ	1291	15 9DE6	37.2265	-116.0533	1.5370	NNSS-SPE Line 2 site 09
L2009	CLZ	1292	15 9DE6	37.2265	-116.0533	1.5370	NNSS-SPE Line 2 site 09
L2009	CLZ	1293	15 9DE6	37.2265	-116.0533	1.5370	NNSS-SPE Line 2 site 09
L2009	CLZ	1294	15 9DE6	37.2265	-116.0533	1.5370	NNSS-SPE Line 2 site 09
L2009	CLZ	1295	15 9DE6	37.2265	-116.0533	1.5370	NNSS-SPE Line 2 site 09
L2009	CLZ	1296	15 90B0	37.2265	-116.0533	1.5370	NNSS-SPE Line 2 site 09
L2009	CLR	1297	15 90B0	37.2265	-116.0533	1.5370	NNSS-SPE Line 2 site 09
L2009	CLT	1298	15 90B0	37.2265	-116.0533	1.5370	NNSS-SPE Line 2 site 09
L2009	CLZ	1299	15 90B0	37.2265	-116.0533	1.5370	NNSS-SPE Line 2 site 09
L2009	CLR	1300	15 90B0	37.2265	-116.0533	1.5370	NNSS-SPE Line 2 site 09
L2009	CLT	1301	15 90B0	37.2265	-116.0533	1.5370	NNSS-SPE Line 2 site 09
L2009	CLZ	1302	15 90B0	37.2265	-116.0533	1.5370	NNSS-SPE Line 2 site 09
L2009	CLR	1303	15 90B0	37.2265	-116.0533	1.5370	NNSS-SPE Line 2 site 09
L2009	CLT	1304	15 90B0	37.2265	-116.0533	1.5370	NNSS-SPE Line 2 site 09
L2009	CLZ	1305	225358-13 90B0	37.2265	-116.0533	1.5370	NNSS-SPE Line 2 site 09
L2009	CLR	1306	225358-13 90B0	37.2265	-116.0533	1.5370	NNSS-SPE Line 2 site 09

Appendix 7
Selected Metadata for SPE-6 Surface Stations

Station ID	Channel	Channel ID	Description	Estimated Latitude	Estimated Longitude	Elevation km (amsl)	Location
L2009	CLT	1307	225358-13 90B0	37.2265	-116.0533	1.5370	NNSS-SPE Line 2 site 09
L2009	CLZ	1308	225358-13 90B0	37.2265	-116.0533	1.5370	NNSS-SPE Line 2 site 09
L2009	CLR	1309	225358-13 90B0	37.2265	-116.0533	1.5370	NNSS-SPE Line 2 site 09
L2009	CLT	1310	225358-13 90B0	37.2265	-116.0533	1.5370	NNSS-SPE Line 2 site 09
L2009	CLZ	1311	225358-13 90B0	37.2265	-116.0533	1.5370	NNSS-SPE Line 2 site 09
L2009	CLR	1312	225358-13 90B0	37.2265	-116.0533	1.5370	NNSS-SPE Line 2 site 09
L2009	CLT	1313	225358-13 90B0	37.2265	-116.0533	1.5370	NNSS-SPE Line 2 site 09
L2009	CLZ	1314	225358-13 90B0	37.2265	-116.0533	1.5370	NNSS-SPE Line 2 site 09
L2009	CLR	1315	225358-13 90B0	37.2265	-116.0533	1.5370	NNSS-SPE Line 2 site 09
L2009	CLT	1316	225358-13 90B0	37.2265	-116.0533	1.5370	NNSS-SPE Line 2 site 09
L2009	CLZ	1317	225358-17 90B0	37.2265	-116.0533	1.5370	NNSS-SPE Line 2 site 09
L2009	CLR	1318	225358-17 90B0	37.2265	-116.0533	1.5370	NNSS-SPE Line 2 site 09
L2009	CLT	1319	225358-17 90B0	37.2265	-116.0533	1.5370	NNSS-SPE Line 2 site 09
L2010	CNZ	1320	3688 90B4	37.2271	-116.0524	1.5310	NNSS-SPE Line 2 site 10
L2010	CNR	1321	3688 90B4	37.2271	-116.0524	1.5310	NNSS-SPE Line 2 site 10
L2010	CNT	1322	3688 90B4	37.2271	-116.0524	1.5310	NNSS-SPE Line 2 site 10
L2010	DJZ	1323	A200467 90B4	37.2271	-116.0524	1.5310	NNSS-SPE Line 2 site 10
L2010	DJR	1324	A200467 90B4	37.2271	-116.0524	1.5310	NNSS-SPE Line 2 site 10
L2010	DJT	1325	A200467 90B4	37.2271	-116.0524	1.5310	NNSS-SPE Line 2 site 10
L2010	CNZ	1326	3688 90B4	37.2271	-116.0524	1.5310	NNSS-SPE Line 2 site 10
L2010	CNR	1327	3688 90B4	37.2271	-116.0524	1.5310	NNSS-SPE Line 2 site 10
L2010	CNT	1328	3688 90B4	37.2271	-116.0524	1.5310	NNSS-SPE Line 2 site 10
L2010	CLZ_04	1329	105 90B4	37.2271	-116.0524	1.5310	NNSS-SPE Line 2 site 10
L2010	CLR_05	1330	105 90B4	37.2271	-116.0524	1.5310	NNSS-SPE Line 2 site 10
L2010	CLT_06	1331	105 90B4	37.2271	-116.0524	1.5310	NNSS-SPE Line 2 site 10
L2010	CNZ	1332	3688 90B4	37.2271	-116.0524	1.5310	NNSS-SPE Line 2 site 10
L2010	CNR	1333	3688 90B4	37.2271	-116.0524	1.5310	NNSS-SPE Line 2 site 10
L2010	CNT	1334	3688 90B4	37.2271	-116.0524	1.5310	NNSS-SPE Line 2 site 10
L2010	CLZ_04	1335	105 90B4	37.2271	-116.0524	1.5310	NNSS-SPE Line 2 site 10
L2010	CLR_05	1336	105 90B4	37.2271	-116.0524	1.5310	NNSS-SPE Line 2 site 10
L2010	CLT_06	1337	105 90B4	37.2271	-116.0524	1.5310	NNSS-SPE Line 2 site 10

Appendix 7
Selected Metadata for SPE-6 Surface Stations

Station ID	Channel	Channel ID	Description	Estimated Latitude	Estimated Longitude	Elevation km (amsl)	Location
L2010	CLZ	1338	40 9DE6	37.2271	-116.0524	1.5310	NNSS-SPE Line 2 site 10
L2010	CLZ	1339	40 9DE6	37.2271	-116.0524	1.5310	NNSS-SPE Line 2 site 10
L2010	CLZ	1340	40 9DE6	37.2271	-116.0524	1.5310	NNSS-SPE Line 2 site 10
L2010	CLZ	1341	40 9DE6	37.2271	-116.0524	1.5310	NNSS-SPE Line 2 site 10
L2010	CLZ	1342	40 9DE6	37.2271	-116.0524	1.5310	NNSS-SPE Line 2 site 10
L2010	CLZ	1343	40 9DE6	37.2271	-116.0524	1.5310	NNSS-SPE Line 2 site 10
L2010	CLZ	1344	40 90B0	37.2271	-116.0524	1.5310	NNSS-SPE Line 2 site 10
L2010	CLR	1345	40 90B0	37.2271	-116.0524	1.5310	NNSS-SPE Line 2 site 10
L2010	CLT	1346	40 90B0	37.2271	-116.0524	1.5310	NNSS-SPE Line 2 site 10
L2010	CLZ	1347	40 90B0	37.2271	-116.0524	1.5310	NNSS-SPE Line 2 site 10
L2010	CLR	1348	40 90B0	37.2271	-116.0524	1.5310	NNSS-SPE Line 2 site 10
L2010	CLT	1349	40 90B0	37.2271	-116.0524	1.5310	NNSS-SPE Line 2 site 10
L2010	CLZ	1350	40 90B0	37.2271	-116.0524	1.5310	NNSS-SPE Line 2 site 10
L2010	CLR	1351	40 90B0	37.2271	-116.0524	1.5310	NNSS-SPE Line 2 site 10
L2010	CLT	1352	40 90B0	37.2271	-116.0524	1.5310	NNSS-SPE Line 2 site 10
L2010	CLZ	1353	40 90B0	37.2271	-116.0524	1.5310	NNSS-SPE Line 2 site 10
L2010	CLR	1354	40 90B0	37.2271	-116.0524	1.5310	NNSS-SPE Line 2 site 10
L2010	CLT	1355	40 90B0	37.2271	-116.0524	1.5310	NNSS-SPE Line 2 site 10
L2010	CLZ	1356	40 90B0	37.2271	-116.0524	1.5310	NNSS-SPE Line 2 site 10
L2010	CLR	1357	40 90B0	37.2271	-116.0524	1.5310	NNSS-SPE Line 2 site 10
L2010	CLT	1358	40 90B0	37.2271	-116.0524	1.5310	NNSS-SPE Line 2 site 10
L2010	CLZ	1359	40 90B0	37.2271	-116.0524	1.5310	NNSS-SPE Line 2 site 10
L2010	CLR	1360	40 90B0	37.2271	-116.0524	1.5310	NNSS-SPE Line 2 site 10
L2010	CLT	1361	40 90B0	37.2271	-116.0524	1.5310	NNSS-SPE Line 2 site 10
L2010	CLZ	1362	40 90B0	37.2271	-116.0524	1.5310	NNSS-SPE Line 2 site 10
L2010	CLR	1363	40 90B0	37.2271	-116.0524	1.5310	NNSS-SPE Line 2 site 10
L2010	CLT	1364	40 90B0	37.2271	-116.0524	1.5310	NNSS-SPE Line 2 site 10
L2010	CLZ	1365	112 90B0	37.2271	-116.0524	1.5310	NNSS-SPE Line 2 site 10
L2010	CLR	1366	112 90B0	37.2271	-116.0524	1.5310	NNSS-SPE Line 2 site 10
L2010	CLT	1367	112 90B0	37.2271	-116.0524	1.5310	NNSS-SPE Line 2 site 10
L2011	CLZ	1368	107 9DE6	37.2277	-116.0516	1.5370	NNSS-SPE Line 2 site 11

Appendix 7
Selected Metadata for SPE-6 Surface Stations

Station ID	Channel	Channel ID	Description	Estimated Latitude	Estimated Longitude	Elevation km (amsl)	Location
L2011	CLZ	1369	107 9DE6	37.2277	-116.0516	1.5370	NNSS-SPE Line 2 site 11
L2011	CLZ	1370	107 9DE6	37.2277	-116.0516	1.5370	NNSS-SPE Line 2 site 11
L2011	CLZ	1371	107 9DE6	37.2277	-116.0516	1.5370	NNSS-SPE Line 2 site 11
L2011	CLZ	1372	107 9DE6	37.2277	-116.0516	1.5370	NNSS-SPE Line 2 site 11
L2011	CLZ	1373	107 9DE6	37.2277	-116.0516	1.5370	NNSS-SPE Line 2 site 11
L2011	CLZ	1374	107 9DE6	37.2277	-116.0516	1.5370	NNSS-SPE Line 2 site 11
L2011	CLR	1375	107 9DE6	37.2277	-116.0516	1.5370	NNSS-SPE Line 2 site 11
L2011	CLT	1376	107 9DE6	37.2277	-116.0516	1.5370	NNSS-SPE Line 2 site 11
L2011	CLZ	1377	107 9DE6	37.2277	-116.0516	1.5370	NNSS-SPE Line 2 site 11
L2011	CLR	1378	107 9DE6	37.2277	-116.0516	1.5370	NNSS-SPE Line 2 site 11
L2011	CLT	1379	107 9DE6	37.2277	-116.0516	1.5370	NNSS-SPE Line 2 site 11
L2011	CLZ	1380	107 B3B9	37.2277	-116.0516	1.5370	NNSS-SPE Line 2 site 11
L2011	CLR	1381	107 B3B9	37.2277	-116.0516	1.5370	NNSS-SPE Line 2 site 11
L2011	CLT	1382	107 B3B9	37.2277	-116.0516	1.5370	NNSS-SPE Line 2 site 11
L2011	CLZ	1383	107 B3B9	37.2277	-116.0516	1.5370	NNSS-SPE Line 2 site 11
L2011	CLR	1384	107 B3B9	37.2277	-116.0516	1.5370	NNSS-SPE Line 2 site 11
L2011	CLT	1385	107 B3B9	37.2277	-116.0516	1.5370	NNSS-SPE Line 2 site 11
L2011	CLZ	1386	107 B3B9	37.2277	-116.0516	1.5370	NNSS-SPE Line 2 site 11
L2011	CLR	1387	107 B3B9	37.2277	-116.0516	1.5370	NNSS-SPE Line 2 site 11
L2011	CLT	1388	107 B3B9	37.2277	-116.0516	1.5370	NNSS-SPE Line 2 site 11
L2011	CLZ	1389	107 B3B9	37.2277	-116.0516	1.5370	NNSS-SPE Line 2 site 11
L2011	CLR	1390	107 B3B9	37.2277	-116.0516	1.5370	NNSS-SPE Line 2 site 11
L2011	CLT	1391	107 B3B9	37.2277	-116.0516	1.5370	NNSS-SPE Line 2 site 11
L2011	CLZ	1392	107 B3B9	37.2277	-116.0516	1.5370	NNSS-SPE Line 2 site 11
L2011	CLR	1393	107 B3B9	37.2277	-116.0516	1.5370	NNSS-SPE Line 2 site 11
L2011	CLT	1394	107 B3B9	37.2277	-116.0516	1.5370	NNSS-SPE Line 2 site 11
L2011	CLZ	1395	21 B3D7	37.2277	-116.0516	1.5370	NNSS-SPE Line 2 site 11
L2011	CLR	1396	21 B3D7	37.2277	-116.0516	1.5370	NNSS-SPE Line 2 site 11
L2011	CLT	1397	21 B3D7	37.2277	-116.0516	1.5370	NNSS-SPE Line 2 site 11
L2012	CLZ	1398	112 9DE6	37.2283	-116.0507	1.5370	NNSS-SPE Line 2 site 12
L2012	CLR	1399	112 9DE6	37.2283	-116.0507	1.5370	NNSS-SPE Line 2 site 12

Appendix 7
Selected Metadata for SPE-6 Surface Stations

Station ID	Channel	Channel ID	Description	Estimated Latitude	Estimated Longitude	Elevation km (amsl)	Location
L2012	CLT	1400	112 9DE6	37.2283	-116.0507	1.5370	NNSS-SPE Line 2 site 12
L2012	CLZ	1401	112 9DE6	37.2283	-116.0507	1.5370	NNSS-SPE Line 2 site 12
L2012	CLR	1402	112 9DE6	37.2283	-116.0507	1.5370	NNSS-SPE Line 2 site 12
L2012	CLT	1403	112 9DE6	37.2283	-116.0507	1.5370	NNSS-SPE Line 2 site 12
L2012	CLZ	1404	112 9DE6	37.2283	-116.0507	1.5370	NNSS-SPE Line 2 site 12
L2012	CLR	1405	112 9DE6	37.2283	-116.0507	1.5370	NNSS-SPE Line 2 site 12
L2012	CLT	1406	112 9DE6	37.2283	-116.0507	1.5370	NNSS-SPE Line 2 site 12
L2012	CLZ	1407	112 9DE6	37.2283	-116.0507	1.5370	NNSS-SPE Line 2 site 12
L2012	CLR	1408	112 9DE6	37.2283	-116.0507	1.5370	NNSS-SPE Line 2 site 12
L2012	CLT	1409	112 9DE6	37.2283	-116.0507	1.5370	NNSS-SPE Line 2 site 12
L2012	CLZ	1410	112 9DE6	37.2283	-116.0507	1.5370	NNSS-SPE Line 2 site 12
L2012	CLR	1411	112 9DE6	37.2283	-116.0507	1.5370	NNSS-SPE Line 2 site 12
L2012	CLT	1412	112 9DE6	37.2283	-116.0507	1.5370	NNSS-SPE Line 2 site 12
L2012	CLZ	1413	112 9DE6	37.2283	-116.0507	1.5370	NNSS-SPE Line 2 site 12
L2012	CLR	1414	112 9DE6	37.2283	-116.0507	1.5370	NNSS-SPE Line 2 site 12
L2012	CLT	1415	112 9DE6	37.2283	-116.0507	1.5370	NNSS-SPE Line 2 site 12
L2012	CLZ	1416	112 9DE6	37.2283	-116.0507	1.5370	NNSS-SPE Line 2 site 12
L2012	CLR	1417	112 9DE6	37.2283	-116.0507	1.5370	NNSS-SPE Line 2 site 12
L2012	CLT	1418	112 9DE6	37.2283	-116.0507	1.5370	NNSS-SPE Line 2 site 12
L2012	CLZ	1419	112 9DE6	37.2283	-116.0507	1.5370	NNSS-SPE Line 2 site 12
L2012	CLR	1420	112 9DE6	37.2283	-116.0507	1.5370	NNSS-SPE Line 2 site 12
L2012	CLT	1421	112 9DE6	37.2283	-116.0507	1.5370	NNSS-SPE Line 2 site 12
L2012	CLZ	1422	20 B3B9	37.2283	-116.0507	1.5370	NNSS-SPE Line 2 site 12
L2012	CLR	1423	20 B3B9	37.2283	-116.0507	1.5370	NNSS-SPE Line 2 site 12
L2012	CLT	1424	20 B3B9	37.2283	-116.0507	1.5370	NNSS-SPE Line 2 site 12
L2012	CLZ	1425	20 B3B9	37.2283	-116.0507	1.5370	NNSS-SPE Line 2 site 12
L2012	CLR	1426	20 B3B9	37.2283	-116.0507	1.5370	NNSS-SPE Line 2 site 12
L2012	CLT	1427	20 B3B9	37.2283	-116.0507	1.5370	NNSS-SPE Line 2 site 12
L2012	CLZ	1428	20 B3B9	37.2283	-116.0507	1.5370	NNSS-SPE Line 2 site 12
L2012	CLR	1429	20 B3B9	37.2283	-116.0507	1.5370	NNSS-SPE Line 2 site 12
L2012	CLT	1430	20 B3B9	37.2283	-116.0507	1.5370	NNSS-SPE Line 2 site 12

Appendix 7
Selected Metadata for SPE-6 Surface Stations

Station ID	Channel	Channel ID	Description	Estimated Latitude	Estimated Longitude	Elevation km (amsl)	Location
L2012	CLZ	1431	20 B3B9	37.2283	-116.0507	1.5370	NNSS-SPE Line 2 site 12
L2012	CLR	1432	20 B3B9	37.2283	-116.0507	1.5370	NNSS-SPE Line 2 site 12
L2012	CLT	1433	20 B3B9	37.2283	-116.0507	1.5370	NNSS-SPE Line 2 site 12
L2012	CLZ	1434	20 B3B9	37.2283	-116.0507	1.5370	NNSS-SPE Line 2 site 12
L2012	CLR	1435	20 B3B9	37.2283	-116.0507	1.5370	NNSS-SPE Line 2 site 12
L2012	CLT	1436	20 B3B9	37.2283	-116.0507	1.5370	NNSS-SPE Line 2 site 12
L2012	CLZ	1437	43 B3B9	37.2283	-116.0507	1.5370	NNSS-SPE Line 2 site 12
L2012	CLR	1438	43 B3B9	37.2283	-116.0507	1.5370	NNSS-SPE Line 2 site 12
L2012	CLT	1439	43 B3B9	37.2283	-116.0507	1.5370	NNSS-SPE Line 2 site 12
L2013	CLZ	1440	20 9E2B	37.2289	-116.0499	1.5360	NNSS-SPE Line 2 site 13
L2013	CLZ	1441	20 9E2B	37.2289	-116.0499	1.5360	NNSS-SPE Line 2 site 13
L2013	CLZ	1442	20 9E2B	37.2289	-116.0499	1.5360	NNSS-SPE Line 2 site 13
L2013	CLZ	1443	20 B3D8	37.2289	-116.0499	1.5360	NNSS-SPE Line 2 site 13
L2013	CLZ	1444	20 B3D8	37.2289	-116.0499	1.5360	NNSS-SPE Line 2 site 13
L2013	CLZ	1445	20 B3D8	37.2289	-116.0499	1.5360	NNSS-SPE Line 2 site 13
L2013	CLZ	1446	20 B3D8	37.2289	-116.0499	1.5360	NNSS-SPE Line 2 site 13
L2013	CLZ	1447	90 B3D2	37.2289	-116.0499	1.5360	NNSS-SPE Line 2 site 13
L2013	CLR	1448	90 B3D2	37.2289	-116.0499	1.5360	NNSS-SPE Line 2 site 13
L2013	CLT	1449	90 B3D2	37.2289	-116.0499	1.5360	NNSS-SPE Line 2 site 13
L2013	CLZ	1450	90 B3D2	37.2289	-116.0499	1.5360	NNSS-SPE Line 2 site 13
L2013	CLR	1451	90 B3D2	37.2289	-116.0499	1.5360	NNSS-SPE Line 2 site 13
L2013	CLT	1452	90 B3D2	37.2289	-116.0499	1.5360	NNSS-SPE Line 2 site 13
L2013	CLZ	1453	90 B3D2	37.2289	-116.0499	1.5360	NNSS-SPE Line 2 site 13
L2013	CLR	1454	90 B3D2	37.2289	-116.0499	1.5360	NNSS-SPE Line 2 site 13
L2013	CLT	1455	90 B3D2	37.2289	-116.0499	1.5360	NNSS-SPE Line 2 site 13
L2013	CLZ	1456	225358-43 B3D2	37.2289	-116.0499	1.5360	NNSS-SPE Line 2 site 13
L2013	CLR	1457	225358-43 B3D2	37.2289	-116.0499	1.5360	NNSS-SPE Line 2 site 13
L2013	CLT	1458	225358-43 B3D2	37.2289	-116.0499	1.5360	NNSS-SPE Line 2 site 13
L2013	CLZ	1459	14 B3D2	37.2289	-116.0499	1.5360	NNSS-SPE Line 2 site 13
L2013	CLR	1460	14 B3D2	37.2289	-116.0499	1.5360	NNSS-SPE Line 2 site 13
L2013	CLT	1461	14 B3D2	37.2289	-116.0499	1.5360	NNSS-SPE Line 2 site 13

Appendix 7
Selected Metadata for SPE-6 Surface Stations

Station ID	Channel	Channel ID	Description	Estimated Latitude	Estimated Longitude	Elevation km (amsl)	Location
L2013	CLZ	1462	14 B3D2	37.2289	-116.0499	1.5360	NNSS-SPE Line 2 site 13
L2013	CLR	1463	14 B3D2	37.2289	-116.0499	1.5360	NNSS-SPE Line 2 site 13
L2013	CLT	1464	14 B3D2	37.2289	-116.0499	1.5360	NNSS-SPE Line 2 site 13
L2013	CLZ	1465	14 B3D2	37.2289	-116.0499	1.5360	NNSS-SPE Line 2 site 13
L2013	CLR	1466	14 B3D2	37.2289	-116.0499	1.5360	NNSS-SPE Line 2 site 13
L2013	CLT	1467	14 B3D2	37.2289	-116.0499	1.5360	NNSS-SPE Line 2 site 13
L2013	CLZ	1468	1 B3D2	37.2289	-116.0499	1.5360	NNSS-SPE Line 2 site 13
L2013	CLR	1469	1 B3D2	37.2289	-116.0499	1.5360	NNSS-SPE Line 2 site 13
L2013	CLT	1470	1 B3D2	37.2289	-116.0499	1.5360	NNSS-SPE Line 2 site 13
L2013	CLZ	1471	214830-19 AF07	37.2289	-116.0499	1.5360	NNSS-SPE Line 2 site 13
L2013	CLR	1472	214830-19 AF07	37.2289	-116.0499	1.5360	NNSS-SPE Line 2 site 13
L2013	CLT	1473	214830-19 AF07	37.2289	-116.0499	1.5360	NNSS-SPE Line 2 site 13
L2014	CLZ	1474	43 9E2B	37.2295	-116.0490	1.5410	NNSS-SPE Line 2 site 14
L2014	CLZ	1475	43 9E2B	37.2295	-116.0490	1.5410	NNSS-SPE Line 2 site 14
L2014	CLZ	1476	43 9E2B	37.2295	-116.0490	1.5410	NNSS-SPE Line 2 site 14
L2014	CLZ	1477	43 B3D8	37.2295	-116.0490	1.5410	NNSS-SPE Line 2 site 14
L2014	CLZ	1478	43 B3D8	37.2295	-116.0490	1.5410	NNSS-SPE Line 2 site 14
L2014	CLZ	1479	43 B3D8	37.2295	-116.0490	1.5410	NNSS-SPE Line 2 site 14
L2014	CLZ	1480	43 B3D8	37.2295	-116.0490	1.5410	NNSS-SPE Line 2 site 14
L2014	CLZ	1481	43 B3D2	37.2295	-116.0490	1.5410	NNSS-SPE Line 2 site 14
L2014	CLR	1482	43 B3D2	37.2295	-116.0490	1.5410	NNSS-SPE Line 2 site 14
L2014	CLT	1483	43 B3D2	37.2295	-116.0490	1.5410	NNSS-SPE Line 2 site 14
L2014	CLZ	1484	43 B3D2	37.2295	-116.0490	1.5410	NNSS-SPE Line 2 site 14
L2014	CLR	1485	43 B3D2	37.2295	-116.0490	1.5410	NNSS-SPE Line 2 site 14
L2014	CLT	1486	43 B3D2	37.2295	-116.0490	1.5410	NNSS-SPE Line 2 site 14
L2014	CLZ	1487	38 B3D2	37.2295	-116.0490	1.5410	NNSS-SPE Line 2 site 14
L2014	CLR	1488	38 B3D2	37.2295	-116.0490	1.5410	NNSS-SPE Line 2 site 14
L2014	CLT	1489	38 B3D2	37.2295	-116.0490	1.5410	NNSS-SPE Line 2 site 14
L2014	CLZ	1490	38 B3D2	37.2295	-116.0490	1.5410	NNSS-SPE Line 2 site 14
L2014	CLR	1491	38 B3D2	37.2295	-116.0490	1.5410	NNSS-SPE Line 2 site 14
L2014	CLT	1492	38 B3D2	37.2295	-116.0490	1.5410	NNSS-SPE Line 2 site 14

Appendix 7
Selected Metadata for SPE-6 Surface Stations

Station ID	Channel	Channel ID	Description	Estimated Latitude	Estimated Longitude	Elevation km (amsl)	Location
L2014	CLZ	1493	225358-27 B3D2	37.2295	-116.0490	1.5410	NNSS-SPE Line 2 site 14
L2014	CLR	1494	225358-27 B3D2	37.2295	-116.0490	1.5410	NNSS-SPE Line 2 site 14
L2014	CLT	1495	225358-27 B3D2	37.2295	-116.0490	1.5410	NNSS-SPE Line 2 site 14
L2014	CLZ	1496	225358-27 B3D2	37.2295	-116.0490	1.5410	NNSS-SPE Line 2 site 14
L2014	CLR	1497	225358-27 B3D2	37.2295	-116.0490	1.5410	NNSS-SPE Line 2 site 14
L2014	CLT	1498	225358-27 B3D2	37.2295	-116.0490	1.5410	NNSS-SPE Line 2 site 14
L2014	CLZ	1499	225358-27 B3D2	37.2295	-116.0490	1.5410	NNSS-SPE Line 2 site 14
L2014	CLR	1500	225358-27 B3D2	37.2295	-116.0490	1.5410	NNSS-SPE Line 2 site 14
L2014	CLT	1501	225358-27 B3D2	37.2295	-116.0490	1.5410	NNSS-SPE Line 2 site 14
L2014	CLZ	1502	225358-27 B3D2	37.2295	-116.0490	1.5410	NNSS-SPE Line 2 site 14
L2014	CLR	1503	225358-27 B3D2	37.2295	-116.0490	1.5410	NNSS-SPE Line 2 site 14
L2014	CLT	1504	225358-27 B3D2	37.2295	-116.0490	1.5410	NNSS-SPE Line 2 site 14
L2014	CLZ	1505	11 B3D2	37.2295	-116.0490	1.5410	NNSS-SPE Line 2 site 14
L2014	CLR	1506	11 B3D2	37.2295	-116.0490	1.5410	NNSS-SPE Line 2 site 14
L2014	CLT	1507	11 B3D2	37.2295	-116.0490	1.5410	NNSS-SPE Line 2 site 14
L2015	CLZ	1508	101 9E2B	37.2301	-116.0482	1.5430	NNSS-SPE Line 2 site 15
L2015	CLZ	1509	101 9E2B	37.2301	-116.0482	1.5430	NNSS-SPE Line 2 site 15
L2015	CLZ	1510	101 9E2B	37.2301	-116.0482	1.5430	NNSS-SPE Line 2 site 15
L2015	CLZ	1511	101 B3D8	37.2301	-116.0482	1.5430	NNSS-SPE Line 2 site 15
L2015	CLZ	1512	101 B3D8	37.2301	-116.0482	1.5430	NNSS-SPE Line 2 site 15
L2015	CLZ	1513	101 B3D8	37.2301	-116.0482	1.5430	NNSS-SPE Line 2 site 15
L2015	CLZ	1514	101 B3D8	37.2301	-116.0482	1.5430	NNSS-SPE Line 2 site 15
L2015	CLZ	1515	101 B3D8	37.2301	-116.0482	1.5430	NNSS-SPE Line 2 site 15
L2015	CLR	1516	101 B3D8	37.2301	-116.0482	1.5430	NNSS-SPE Line 2 site 15
L2015	CLT	1517	101 B3D8	37.2301	-116.0482	1.5430	NNSS-SPE Line 2 site 15
L2015	CLZ	1518	101 B3D8	37.2301	-116.0482	1.5430	NNSS-SPE Line 2 site 15
L2015	CLR	1519	101 B3D8	37.2301	-116.0482	1.5430	NNSS-SPE Line 2 site 15
L2015	CLT	1520	101 B3D8	37.2301	-116.0482	1.5430	NNSS-SPE Line 2 site 15
L2015	CLZ	1521	101 B3D8	37.2301	-116.0482	1.5430	NNSS-SPE Line 2 site 15
L2015	CLR	1522	101 B3D8	37.2301	-116.0482	1.5430	NNSS-SPE Line 2 site 15
L2015	CLT	1523	101 B3D8	37.2301	-116.0482	1.5430	NNSS-SPE Line 2 site 15

Appendix 7
Selected Metadata for SPE-6 Surface Stations

Station ID	Channel	Channel ID	Description	Estimated Latitude	Estimated Longitude	Elevation km (amsl)	Location
L2015	CLZ	1524	101 B3D8	37.2301	-116.0482	1.5430	NNSS-SPE Line 2 site 15
L2015	CLR	1525	101 B3D8	37.2301	-116.0482	1.5430	NNSS-SPE Line 2 site 15
L2015	CLT	1526	101 B3D8	37.2301	-116.0482	1.5430	NNSS-SPE Line 2 site 15
L2015	CLZ	1527	94 B3D8	37.2301	-116.0482	1.5430	NNSS-SPE Line 2 site 15
L2015	CLR	1528	94 B3D8	37.2301	-116.0482	1.5430	NNSS-SPE Line 2 site 15
L2015	CLT	1529	94 B3D8	37.2301	-116.0482	1.5430	NNSS-SPE Line 2 site 15
L2015	CLZ	1530	94 B3D8	37.2301	-116.0482	1.5430	NNSS-SPE Line 2 site 15
L2015	CLR	1531	94 B3D8	37.2301	-116.0482	1.5430	NNSS-SPE Line 2 site 15
L2015	CLT	1532	94 B3D8	37.2301	-116.0482	1.5430	NNSS-SPE Line 2 site 15
L2015	CLZ	1533	94 B3D8	37.2301	-116.0482	1.5430	NNSS-SPE Line 2 site 15
L2015	CLR	1534	94 B3D8	37.2301	-116.0482	1.5430	NNSS-SPE Line 2 site 15
L2015	CLT	1535	94 B3D8	37.2301	-116.0482	1.5430	NNSS-SPE Line 2 site 15
L2015	CLZ	1536	225358-35 BCCB	37.2301	-116.0482	1.5430	NNSS-SPE Line 2 site 15
L2015	CLR	1537	225358-35 BCCB	37.2301	-116.0482	1.5430	NNSS-SPE Line 2 site 15
L2015	CLT	1538	225358-35 BCCB	37.2301	-116.0482	1.5430	NNSS-SPE Line 2 site 15
L2016	CLZ	1539	21 9E2B	37.2307	-116.0473	1.5360	NNSS-SPE Line 2 site 16
L2016	CLR	1540	21 9E2B	37.2307	-116.0473	1.5360	NNSS-SPE Line 2 site 16
L2016	CLT	1541	21 9E2B	37.2307	-116.0473	1.5360	NNSS-SPE Line 2 site 16
L2016	CLZ	1542	21 9E2B	37.2307	-116.0473	1.5360	NNSS-SPE Line 2 site 16
L2016	CLR	1543	21 9E2B	37.2307	-116.0473	1.5360	NNSS-SPE Line 2 site 16
L2016	CLT	1544	21 9E2B	37.2307	-116.0473	1.5360	NNSS-SPE Line 2 site 16
L2016	CLZ	1545	21 9E2B	37.2307	-116.0473	1.5360	NNSS-SPE Line 2 site 16
L2016	CLR	1546	21 9E2B	37.2307	-116.0473	1.5360	NNSS-SPE Line 2 site 16
L2016	CLT	1547	21 9E2B	37.2307	-116.0473	1.5360	NNSS-SPE Line 2 site 16
L2016	CLZ	1548	21 B3D8	37.2307	-116.0473	1.5360	NNSS-SPE Line 2 site 16
L2016	CLR	1549	21 B3D8	37.2307	-116.0473	1.5360	NNSS-SPE Line 2 site 16
L2016	CLT	1550	21 B3D8	37.2307	-116.0473	1.5360	NNSS-SPE Line 2 site 16
L2016	CLZ	1551	21 B3D8	37.2307	-116.0473	1.5360	NNSS-SPE Line 2 site 16
L2016	CLR	1552	21 B3D8	37.2307	-116.0473	1.5360	NNSS-SPE Line 2 site 16
L2016	CLT	1553	21 B3D8	37.2307	-116.0473	1.5360	NNSS-SPE Line 2 site 16
L2016	CLZ	1554	21 B3D8	37.2307	-116.0473	1.5360	NNSS-SPE Line 2 site 16

Appendix 7
Selected Metadata for SPE-6 Surface Stations

Station ID	Channel	Channel ID	Description	Estimated Latitude	Estimated Longitude	Elevation km (amsl)	Location
L2016	CLR	1555	21 B3D8	37.2307	-116.0473	1.5360	NNSS-SPE Line 2 site 16
L2016	CLT	1556	21 B3D8	37.2307	-116.0473	1.5360	NNSS-SPE Line 2 site 16
L2016	CLZ	1557	21 B3D8	37.2307	-116.0473	1.5360	NNSS-SPE Line 2 site 16
L2016	CLR	1558	21 B3D8	37.2307	-116.0473	1.5360	NNSS-SPE Line 2 site 16
L2016	CLT	1559	21 B3D8	37.2307	-116.0473	1.5360	NNSS-SPE Line 2 site 16
L2016	CLZ	1560	21 B3D8	37.2307	-116.0473	1.5360	NNSS-SPE Line 2 site 16
L2016	CLR	1561	21 B3D8	37.2307	-116.0473	1.5360	NNSS-SPE Line 2 site 16
L2016	CLT	1562	21 B3D8	37.2307	-116.0473	1.5360	NNSS-SPE Line 2 site 16
L2016	CLZ	1563	21 B3D8	37.2307	-116.0473	1.5360	NNSS-SPE Line 2 site 16
L2016	CLR	1564	21 B3D8	37.2307	-116.0473	1.5360	NNSS-SPE Line 2 site 16
L2016	CLT	1565	21 B3D8	37.2307	-116.0473	1.5360	NNSS-SPE Line 2 site 16
L2016	CLZ	1566	214830-17 B3D8	37.2307	-116.0473	1.5360	NNSS-SPE Line 2 site 16
L2016	CLR	1567	214830-17 B3D8	37.2307	-116.0473	1.5360	NNSS-SPE Line 2 site 16
L2016	CLT	1568	214830-17 B3D8	37.2307	-116.0473	1.5360	NNSS-SPE Line 2 site 16
L2016	CLZ	1569	214830-17 B3D8	37.2307	-116.0473	1.5360	NNSS-SPE Line 2 site 16
L2016	CLR	1570	214830-17 B3D8	37.2307	-116.0473	1.5360	NNSS-SPE Line 2 site 16
L2016	CLT	1571	214830-17 B3D8	37.2307	-116.0473	1.5360	NNSS-SPE Line 2 site 16
L2016	CLZ	1572	214830-17 D1BF	37.2307	-116.0473	1.5360	NNSS-SPE Line 2 site 16
L2016	CLR	1573	214830-17 D1BF	37.2307	-116.0473	1.5360	NNSS-SPE Line 2 site 16
L2016	CLT	1574	214830-17 D1BF	37.2307	-116.0473	1.5360	NNSS-SPE Line 2 site 16
L2016	CLZ	1575	214830-17 D1BF	37.2307	-116.0473	1.5360	NNSS-SPE Line 2 site 16
L2016	CLR	1576	214830-17 D1BF	37.2307	-116.0473	1.5360	NNSS-SPE Line 2 site 16
L2016	CLT	1577	214830-17 D1BF	37.2307	-116.0473	1.5360	NNSS-SPE Line 2 site 16
L2016	CLZ	1578	214830-17 D195	37.2307	-116.0473	1.5360	NNSS-SPE Line 2 site 16
L2016	CLR	1579	214830-17 D195	37.2307	-116.0473	1.5360	NNSS-SPE Line 2 site 16
L2016	CLT	1580	214830-17 D195	37.2307	-116.0473	1.5360	NNSS-SPE Line 2 site 16
L2016	CLZ	1581	214830-17 D195	37.2307	-116.0473	1.5360	NNSS-SPE Line 2 site 16
L2016	CLR	1582	214830-17 D195	37.2307	-116.0473	1.5360	NNSS-SPE Line 2 site 16
L2016	CLT	1583	214830-17 D195	37.2307	-116.0473	1.5360	NNSS-SPE Line 2 site 16
L2016	CLZ	1584	82 D195	37.2307	-116.0473	1.5360	NNSS-SPE Line 2 site 16
L2016	CLR	1585	82 D195	37.2307	-116.0473	1.5360	NNSS-SPE Line 2 site 16

Appendix 7
Selected Metadata for SPE-6 Surface Stations

Station ID	Channel	Channel ID	Description	Estimated Latitude	Estimated Longitude	Elevation km (amsl)	Location
L2016	CLT	1586	82 D195	37.2307	-116.0473	1.5360	NNSS-SPE Line 2 site 16
L2017	CLZ	1587	33 9498	37.2312	-116.0465	1.5490	NNSS-SPE Line 2 site 17
L2017	CLZ	1588	33 9498	37.2312	-116.0465	1.5490	NNSS-SPE Line 2 site 17
L2017	CLZ	1589	33 982C	37.2312	-116.0465	1.5490	NNSS-SPE Line 2 site 17
L2017	CLZ	1590	33 B3B7	37.2312	-116.0465	1.5490	NNSS-SPE Line 2 site 17
L2017	CLZ	1591	33 B3B7	37.2312	-116.0465	1.5490	NNSS-SPE Line 2 site 17
L2017	CLZ	1592	33 B3B7	37.2312	-116.0465	1.5490	NNSS-SPE Line 2 site 17
L2017	CLZ	1593	33 B3B7	37.2312	-116.0465	1.5490	NNSS-SPE Line 2 site 17
L2017	CLZ	1594	33 B3B7	37.2312	-116.0465	1.5490	NNSS-SPE Line 2 site 17
L2017	CLZ	1595	33 B3B7	37.2312	-116.0465	1.5490	NNSS-SPE Line 2 site 17
L2017	CLZ	1596	33 9823	37.2312	-116.0465	1.5490	NNSS-SPE Line 2 site 17
L2017	CLR	1597	33 9823	37.2312	-116.0465	1.5490	NNSS-SPE Line 2 site 17
L2017	CLT	1598	33 9823	37.2312	-116.0465	1.5490	NNSS-SPE Line 2 site 17
L2017	CLZ	1599	33 9823	37.2312	-116.0465	1.5490	NNSS-SPE Line 2 site 17
L2017	CLR	1600	33 9823	37.2312	-116.0465	1.5490	NNSS-SPE Line 2 site 17
L2017	CLT	1601	33 9823	37.2312	-116.0465	1.5490	NNSS-SPE Line 2 site 17
L2017	CLZ	1602	33 9823	37.2312	-116.0465	1.5490	NNSS-SPE Line 2 site 17
L2017	CLR	1603	33 9823	37.2312	-116.0465	1.5490	NNSS-SPE Line 2 site 17
L2017	CLT	1604	33 9823	37.2312	-116.0465	1.5490	NNSS-SPE Line 2 site 17
L2017	CLZ	1605	33 90B1	37.2312	-116.0465	1.5490	NNSS-SPE Line 2 site 17
L2017	CLR	1606	33 90B1	37.2312	-116.0465	1.5490	NNSS-SPE Line 2 site 17
L2017	CLT	1607	33 90B1	37.2312	-116.0465	1.5490	NNSS-SPE Line 2 site 17
L2017	CLZ	1608	33 BCC5	37.2312	-116.0465	1.5490	NNSS-SPE Line 2 site 17
L2017	CLR	1609	33 BCC5	37.2312	-116.0465	1.5490	NNSS-SPE Line 2 site 17
L2017	CLT	1610	33 BCC5	37.2312	-116.0465	1.5490	NNSS-SPE Line 2 site 17
L2017	CLZ	1611	33 BCC5	37.2312	-116.0465	1.5490	NNSS-SPE Line 2 site 17
L2017	CLR	1612	33 BCC5	37.2312	-116.0465	1.5490	NNSS-SPE Line 2 site 17
L2017	CLT	1613	33 BCC5	37.2312	-116.0465	1.5490	NNSS-SPE Line 2 site 17
L2017	CLZ	1614	33 BCC5	37.2312	-116.0465	1.5490	NNSS-SPE Line 2 site 17
L2017	CLR	1615	33 BCC5	37.2312	-116.0465	1.5490	NNSS-SPE Line 2 site 17
L2017	CLT	1616	33 BCC5	37.2312	-116.0465	1.5490	NNSS-SPE Line 2 site 17

Appendix 7
Selected Metadata for SPE-6 Surface Stations

Station ID	Channel	Channel ID	Description	Estimated Latitude	Estimated Longitude	Elevation km (amsl)	Location
L2017	CLZ	1617	33 BCC5	37.2312	-116.0465	1.5490	NNSS-SPE Line 2 site 17
L2017	CLR	1618	33 BCC5	37.2312	-116.0465	1.5490	NNSS-SPE Line 2 site 17
L2017	CLT	1619	33 BCC5	37.2312	-116.0465	1.5490	NNSS-SPE Line 2 site 17
L2017	CLZ	1620	33 BCC5	37.2312	-116.0465	1.5490	NNSS-SPE Line 2 site 17
L2017	CLR	1621	33 BCC5	37.2312	-116.0465	1.5490	NNSS-SPE Line 2 site 17
L2017	CLT	1622	33 BCC5	37.2312	-116.0465	1.5490	NNSS-SPE Line 2 site 17
L2018	CLZ	1623	49 9498	37.2318	-116.0456	1.5480	NNSS-SPE Line 2 site 18
L2018	CLZ	1624	49 9498	37.2318	-116.0456	1.5480	NNSS-SPE Line 2 site 18
L2018	CLZ	1625	49 982C	37.2318	-116.0456	1.5480	NNSS-SPE Line 2 site 18
L2018	CLZ	1626	49 B3B7	37.2318	-116.0456	1.5480	NNSS-SPE Line 2 site 18
L2018	CLZ	1627	49 B3B7	37.2318	-116.0456	1.5480	NNSS-SPE Line 2 site 18
L2018	CLZ	1628	49 B3B7	37.2318	-116.0456	1.5480	NNSS-SPE Line 2 site 18
L2018	CLZ	1629	49 B3B7	37.2318	-116.0456	1.5480	NNSS-SPE Line 2 site 18
L2018	CLZ	1630	49 B3B7	37.2318	-116.0456	1.5480	NNSS-SPE Line 2 site 18
L2018	CLZ	1631	49 B3B7	37.2318	-116.0456	1.5480	NNSS-SPE Line 2 site 18
L2018	CLZ	1632	65 9823	37.2318	-116.0456	1.5480	NNSS-SPE Line 2 site 18
L2018	CLR	1633	65 9823	37.2318	-116.0456	1.5480	NNSS-SPE Line 2 site 18
L2018	CLT	1634	65 9823	37.2318	-116.0456	1.5480	NNSS-SPE Line 2 site 18
L2018	CLZ	1635	65 9823	37.2318	-116.0456	1.5480	NNSS-SPE Line 2 site 18
L2018	CLR	1636	65 9823	37.2318	-116.0456	1.5480	NNSS-SPE Line 2 site 18
L2018	CLT	1637	65 9823	37.2318	-116.0456	1.5480	NNSS-SPE Line 2 site 18
L2018	CLZ	1638	65 9823	37.2318	-116.0456	1.5480	NNSS-SPE Line 2 site 18
L2018	CLR	1639	65 9823	37.2318	-116.0456	1.5480	NNSS-SPE Line 2 site 18
L2018	CLT	1640	65 9823	37.2318	-116.0456	1.5480	NNSS-SPE Line 2 site 18
L2018	CLZ	1641	73 90B1	37.2318	-116.0456	1.5480	NNSS-SPE Line 2 site 18
L2018	CLR	1642	73 90B1	37.2318	-116.0456	1.5480	NNSS-SPE Line 2 site 18
L2018	CLT	1643	73 90B1	37.2318	-116.0456	1.5480	NNSS-SPE Line 2 site 18
L2018	CLZ	1644	73 BCC5	37.2318	-116.0456	1.5480	NNSS-SPE Line 2 site 18
L2018	CLR	1645	73 BCC5	37.2318	-116.0456	1.5480	NNSS-SPE Line 2 site 18
L2018	CLT	1646	73 BCC5	37.2318	-116.0456	1.5480	NNSS-SPE Line 2 site 18
L2018	CLZ	1647	73 BCC5	37.2318	-116.0456	1.5480	NNSS-SPE Line 2 site 18

Appendix 7
Selected Metadata for SPE-6 Surface Stations

Station ID	Channel	Channel ID	Description	Estimated Latitude	Estimated Longitude	Elevation km (amsl)	Location
L2018	CLR	1648	73 BCC5	37.2318	-116.0456	1.5480	NNSS-SPE Line 2 site 18
L2018	CLT	1649	73 BCC5	37.2318	-116.0456	1.5480	NNSS-SPE Line 2 site 18
L2018	CLZ	1650	73 BCC5	37.2318	-116.0456	1.5480	NNSS-SPE Line 2 site 18
L2018	CLR	1651	73 BCC5	37.2318	-116.0456	1.5480	NNSS-SPE Line 2 site 18
L2018	CLT	1652	73 BCC5	37.2318	-116.0456	1.5480	NNSS-SPE Line 2 site 18
L2018	CLZ	1653	73 BCC5	37.2318	-116.0456	1.5480	NNSS-SPE Line 2 site 18
L2018	CLR	1654	73 BCC5	37.2318	-116.0456	1.5480	NNSS-SPE Line 2 site 18
L2018	CLT	1655	73 BCC5	37.2318	-116.0456	1.5480	NNSS-SPE Line 2 site 18
L2018	CLZ	1656	68 BCC5	37.2318	-116.0456	1.5480	NNSS-SPE Line 2 site 18
L2018	CLR	1657	68 BCC5	37.2318	-116.0456	1.5480	NNSS-SPE Line 2 site 18
L2018	CLT	1658	68 BCC5	37.2318	-116.0456	1.5480	NNSS-SPE Line 2 site 18
L2019	CLZ	1659	88 9498	37.2324	-116.0448	1.5520	NNSS-SPE Line 2 site 19
L2019	CLZ	1660	88 9498	37.2324	-116.0448	1.5520	NNSS-SPE Line 2 site 19
L2019	CLZ	1661	88 982C	37.2324	-116.0448	1.5520	NNSS-SPE Line 2 site 19
L2019	CLZ	1662	88 B3B7	37.2324	-116.0448	1.5520	NNSS-SPE Line 2 site 19
L2019	CLZ	1663	88 B3B7	37.2324	-116.0448	1.5520	NNSS-SPE Line 2 site 19
L2019	CLZ	1664	88 B3B7	37.2324	-116.0448	1.5520	NNSS-SPE Line 2 site 19
L2019	CLZ	1665	88 B3B7	37.2324	-116.0448	1.5520	NNSS-SPE Line 2 site 19
L2019	CLZ	1666	88 B3B7	37.2324	-116.0448	1.5520	NNSS-SPE Line 2 site 19
L2019	CLZ	1667	88 B3B7	37.2324	-116.0448	1.5520	NNSS-SPE Line 2 site 19
L2019	CLZ	1668	88 B3B7	37.2324	-116.0448	1.5520	NNSS-SPE Line 2 site 19
L2019	CLR	1669	88 B3B7	37.2324	-116.0448	1.5520	NNSS-SPE Line 2 site 19
L2019	CLT	1670	88 B3B7	37.2324	-116.0448	1.5520	NNSS-SPE Line 2 site 19
L2019	CLZ	1671	88 B3B7	37.2324	-116.0448	1.5520	NNSS-SPE Line 2 site 19
L2019	CLR	1672	88 B3B7	37.2324	-116.0448	1.5520	NNSS-SPE Line 2 site 19
L2019	CLT	1673	88 B3B7	37.2324	-116.0448	1.5520	NNSS-SPE Line 2 site 19
L2019	CLZ	1674	88 BCDB	37.2324	-116.0448	1.5520	NNSS-SPE Line 2 site 19
L2019	CLR	1675	88 BCDB	37.2324	-116.0448	1.5520	NNSS-SPE Line 2 site 19
L2019	CLT	1676	88 BCDB	37.2324	-116.0448	1.5520	NNSS-SPE Line 2 site 19
L2019	CLZ	1677	88 BCDB	37.2324	-116.0448	1.5520	NNSS-SPE Line 2 site 19
L2019	CLR	1678	88 BCDB	37.2324	-116.0448	1.5520	NNSS-SPE Line 2 site 19

Appendix 7
Selected Metadata for SPE-6 Surface Stations

Station ID	Channel	Channel ID	Description	Estimated Latitude	Estimated Longitude	Elevation km (amsl)	Location
L2019	CLT	1679	88 BCDB	37.2324	-116.0448	1.5520	NNSS-SPE Line 2 site 19
L2019	CLZ	1680	88 BCDB	37.2324	-116.0448	1.5520	NNSS-SPE Line 2 site 19
L2019	CLR	1681	88 BCDB	37.2324	-116.0448	1.5520	NNSS-SPE Line 2 site 19
L2019	CLT	1682	88 BCDB	37.2324	-116.0448	1.5520	NNSS-SPE Line 2 site 19
L2019	CLZ	1683	88 BCDB	37.2324	-116.0448	1.5520	NNSS-SPE Line 2 site 19
L2019	CLR	1684	88 BCDB	37.2324	-116.0448	1.5520	NNSS-SPE Line 2 site 19
L2019	CLT	1685	88 BCDB	37.2324	-116.0448	1.5520	NNSS-SPE Line 2 site 19
L2019	CLZ	1686	88 BCDB	37.2324	-116.0448	1.5520	NNSS-SPE Line 2 site 19
L2019	CLR	1687	88 BCDB	37.2324	-116.0448	1.5520	NNSS-SPE Line 2 site 19
L2019	CLT	1688	88 BCDB	37.2324	-116.0448	1.5520	NNSS-SPE Line 2 site 19
L2019	CLZ	1689	14 B3BE	37.2324	-116.0448	1.5520	NNSS-SPE Line 2 site 19
L2019	CLR	1690	14 B3BE	37.2324	-116.0448	1.5520	NNSS-SPE Line 2 site 19
L2019	CLT	1691	14 B3BE	37.2324	-116.0448	1.5520	NNSS-SPE Line 2 site 19
L2020	DHZ	1692	T4092 9498	37.2330	-116.0439	1.5330	NNSS-SPE Line 2 site 20
L2020	DHR	1693	T4092 9498	37.2330	-116.0439	1.5330	NNSS-SPE Line 2 site 20
L2020	DHT	1694	T4092 9498	37.2330	-116.0439	1.5330	NNSS-SPE Line 2 site 20
L2020	DHZ	1695	T4092 9498	37.2330	-116.0439	1.5330	NNSS-SPE Line 2 site 20
L2020	DHR	1696	T4092 9498	37.2330	-116.0439	1.5330	NNSS-SPE Line 2 site 20
L2020	DHT	1697	T4092 9498	37.2330	-116.0439	1.5330	NNSS-SPE Line 2 site 20
L2020	DHZ	1698	T4092 982C	37.2330	-116.0439	1.5330	NNSS-SPE Line 2 site 20
L2020	DHR	1699	T4092 982C	37.2330	-116.0439	1.5330	NNSS-SPE Line 2 site 20
L2020	DHT	1700	T4092 982C	37.2330	-116.0439	1.5330	NNSS-SPE Line 2 site 20
L2020	DHZ	1701	T4092 B3B7	37.2330	-116.0439	1.5330	NNSS-SPE Line 2 site 20
L2020	DHR	1702	T4092 B3B7	37.2330	-116.0439	1.5330	NNSS-SPE Line 2 site 20
L2020	DHT	1703	T4092 B3B7	37.2330	-116.0439	1.5330	NNSS-SPE Line 2 site 20
L2020	DHZ	1704	T4092 B3B7	37.2330	-116.0439	1.5330	NNSS-SPE Line 2 site 20
L2020	DHR	1705	T4092 B3B7	37.2330	-116.0439	1.5330	NNSS-SPE Line 2 site 20
L2020	DHT	1706	T4092 B3B7	37.2330	-116.0439	1.5330	NNSS-SPE Line 2 site 20
L2020	DHZ	1707	T4092 B3B7	37.2330	-116.0439	1.5330	NNSS-SPE Line 2 site 20
L2020	DHR	1708	T4092 B3B7	37.2330	-116.0439	1.5330	NNSS-SPE Line 2 site 20
L2020	DHT	1709	T4092 B3B7	37.2330	-116.0439	1.5330	NNSS-SPE Line 2 site 20

Appendix 7
Selected Metadata for SPE-6 Surface Stations

Station ID	Channel	Channel ID	Description	Estimated Latitude	Estimated Longitude	Elevation km (amsl)	Location
L2020	DHZ	1710	T4092 B3B7	37.2330	-116.0439	1.5330	NNSS-SPE Line 2 site 20
L2020	DHR	1711	T4092 B3B7	37.2330	-116.0439	1.5330	NNSS-SPE Line 2 site 20
L2020	DHT	1712	T4092 B3B7	37.2330	-116.0439	1.5330	NNSS-SPE Line 2 site 20
L2020	DHZ	1713	T4092 B3B7	37.2330	-116.0439	1.5330	NNSS-SPE Line 2 site 20
L2020	DHR	1714	T4092 B3B7	37.2330	-116.0439	1.5330	NNSS-SPE Line 2 site 20
L2020	DHT	1715	T4092 B3B7	37.2330	-116.0439	1.5330	NNSS-SPE Line 2 site 20
L2020	DHZ	1716	T4092 B3B7	37.2330	-116.0439	1.5330	NNSS-SPE Line 2 site 20
L2020	DHR	1717	T4092 B3B7	37.2330	-116.0439	1.5330	NNSS-SPE Line 2 site 20
L2020	DHT	1718	T4092 B3B7	37.2330	-116.0439	1.5330	NNSS-SPE Line 2 site 20
L2020	DHZ	1719	T4092 B3B7	37.2330	-116.0439	1.5330	NNSS-SPE Line 2 site 20
L2020	DHR	1720	T4092 B3B7	37.2330	-116.0439	1.5330	NNSS-SPE Line 2 site 20
L2020	DHT	1721	T4092 B3B7	37.2330	-116.0439	1.5330	NNSS-SPE Line 2 site 20
L2020	DHZ	1722	T4092 B3B7	37.2330	-116.0439	1.5330	NNSS-SPE Line 2 site 20
L2020	DHR	1723	T4092 B3B7	37.2330	-116.0439	1.5330	NNSS-SPE Line 2 site 20
L2020	DHT	1724	T4092 B3B7	37.2330	-116.0439	1.5330	NNSS-SPE Line 2 site 20
L2020	DHZ	1725	T4092 BCDB	37.2330	-116.0439	1.5330	NNSS-SPE Line 2 site 20
L2020	DHR	1726	T4092 BCDB	37.2330	-116.0439	1.5330	NNSS-SPE Line 2 site 20
L2020	DHT	1727	T4092 BCDB	37.2330	-116.0439	1.5330	NNSS-SPE Line 2 site 20
L2020	DHZ	1728	T4092 BCDB	37.2330	-116.0439	1.5330	NNSS-SPE Line 2 site 20
L2020	DHR	1729	T4092 BCDB	37.2330	-116.0439	1.5330	NNSS-SPE Line 2 site 20
L2020	DHT	1730	T4092 BCDB	37.2330	-116.0439	1.5330	NNSS-SPE Line 2 site 20
L2020	DHZ	1731	T4092 BCDB	37.2330	-116.0439	1.5330	NNSS-SPE Line 2 site 20
L2020	DHR	1732	T4092 BCDB	37.2330	-116.0439	1.5330	NNSS-SPE Line 2 site 20
L2020	DHT	1733	T4092 BCDB	37.2330	-116.0439	1.5330	NNSS-SPE Line 2 site 20
L2020	DHZ	1734	T4092 BCDB	37.2330	-116.0439	1.5330	NNSS-SPE Line 2 site 20
L2020	DHR	1735	T4092 BCDB	37.2330	-116.0439	1.5330	NNSS-SPE Line 2 site 20
L2020	DHT	1736	T4092 BCDB	37.2330	-116.0439	1.5330	NNSS-SPE Line 2 site 20
L2020	DHZ	1737	T4092 BCDB	37.2330	-116.0439	1.5330	NNSS-SPE Line 2 site 20
L2020	DHR	1738	T4092 BCDB	37.2330	-116.0439	1.5330	NNSS-SPE Line 2 site 20
L2020	DHT	1739	T4092 BCDB	37.2330	-116.0439	1.5330	NNSS-SPE Line 2 site 20
L2020	CHZ	1740	2976 BCDB	37.2330	-116.0439	1.5330	NNSS-SPE Line 2 site 20

Appendix 7
Selected Metadata for SPE-6 Surface Stations

Station ID	Channel	Channel ID	Description	Estimated Latitude	Estimated Longitude	Elevation km (amsl)	Location
L2020	CHR	1741	2976 BCDB	37.2330	-116.0439	1.5330	NNSS-SPE Line 2 site 20
L2020	CHT	1742	2976 BCDB	37.2330	-116.0439	1.5330	NNSS-SPE Line 2 site 20
L2020	CHZ	1743	2976 BCDB	37.2330	-116.0439	1.5330	NNSS-SPE Line 2 site 20
L2020	CHR	1744	2976 BCDB	37.2330	-116.0439	1.5330	NNSS-SPE Line 2 site 20
L2020	CHT	1745	2976 BCDB	37.2330	-116.0439	1.5330	NNSS-SPE Line 2 site 20
L2150	CNZ	1746	178 D1D1	37.2221	-116.0595	1.4924	NNSS-SPE Line 2 150m
L2150	CNR	1747	178 D1D1	37.2221	-116.0595	1.4924	NNSS-SPE Line 2 150m
L2150	CNT	1748	178 D1D1	37.2221	-116.0595	1.4924	NNSS-SPE Line 2 150m
L2150	CNZ	1749	178 D1D1	37.2221	-116.0595	1.4924	NNSS-SPE Line 2 150m
L2150	CNR	1750	178 D1D1	37.2221	-116.0595	1.4924	NNSS-SPE Line 2 150m
L2150	CNT	1751	178 D1D1	37.2221	-116.0595	1.4924	NNSS-SPE Line 2 150m
L260	CNZ	1752	4965 D1D0	37.2215	-116.0603	1.4959	NNSS-SPE Line 2 60m
L260	CNR	1753	4965 D1D0	37.2215	-116.0603	1.4959	NNSS-SPE Line 2 60m
L260	CNT	1754	4965 D1D0	37.2215	-116.0603	1.4959	NNSS-SPE Line 2 60m
L260	CNZ	1755	4965 D1D0	37.2215	-116.0603	1.4959	NNSS-SPE Line 2 60m
L260	CNR	1756	4965 D1D0	37.2215	-116.0603	1.4959	NNSS-SPE Line 2 60m
L260	CNT	1757	4965 D1D0	37.2215	-116.0603	1.4959	NNSS-SPE Line 2 60m
L3001	CLZ	1758	52 9495	37.2203	-116.0607	1.5160	NNSS-SPE Line 3 site 01
L3001	CLZ	1759	52 9833	37.2203	-116.0607	1.5160	NNSS-SPE Line 3 site 01
L3001	CLZ	1760	52 9495	37.2203	-116.0607	1.5160	NNSS-SPE Line 3 site 01
L3001	CLZ	1761	52 9495	37.2203	-116.0607	1.5160	NNSS-SPE Line 3 site 01
L3001	CLZ	1762	52 9495	37.2203	-116.0607	1.5160	NNSS-SPE Line 3 site 01
L3001	CLZ	1763	52 9495	37.2203	-116.0607	1.5160	NNSS-SPE Line 3 site 01
L3001	CLZ	1764	52 9495	37.2203	-116.0607	1.5160	NNSS-SPE Line 3 site 01
L3001	CLZ	1765	52 B3BA	37.2203	-116.0607	1.5160	NNSS-SPE Line 3 site 01
L3001	CLR	1766	52 B3BA	37.2203	-116.0607	1.5160	NNSS-SPE Line 3 site 01
L3001	CLT	1767	52 B3BA	37.2203	-116.0607	1.5160	NNSS-SPE Line 3 site 01
L3001	CLZ	1768	52 B3BA	37.2203	-116.0607	1.5160	NNSS-SPE Line 3 site 01
L3001	CLR	1769	52 B3BA	37.2203	-116.0607	1.5160	NNSS-SPE Line 3 site 01
L3001	CLT	1770	52 B3BA	37.2203	-116.0607	1.5160	NNSS-SPE Line 3 site 01
L3001	CLZ	1771	52 B3BA	37.2203	-116.0607	1.5160	NNSS-SPE Line 3 site 01

Appendix 7
Selected Metadata for SPE-6 Surface Stations

Station ID	Channel	Channel ID	Description	Estimated Latitude	Estimated Longitude	Elevation km (amsl)	Location
L3001	CLR	1772	52 B3BA	37.2203	-116.0607	1.5160	NNSS-SPE Line 3 site 01
L3001	CLT	1773	52 B3BA	37.2203	-116.0607	1.5160	NNSS-SPE Line 3 site 01
L3001	CLZ	1774	52 B3BA	37.2203	-116.0607	1.5160	NNSS-SPE Line 3 site 01
L3001	CLR	1775	52 B3BA	37.2203	-116.0607	1.5160	NNSS-SPE Line 3 site 01
L3001	CLT	1776	52 B3BA	37.2203	-116.0607	1.5160	NNSS-SPE Line 3 site 01
L3001	CLZ	1777	52 D1C2	37.2203	-116.0607	1.5160	NNSS-SPE Line 3 site 01
L3001	CLR	1778	52 D1C2	37.2203	-116.0607	1.5160	NNSS-SPE Line 3 site 01
L3001	CLT	1779	52 D1C2	37.2203	-116.0607	1.5160	NNSS-SPE Line 3 site 01
L3001	CNZ	1780	605 D1C2	37.2203	-116.0607	1.5160	NNSS-SPE Line 3 site 01
L3001	CNR	1781	605 D1C2	37.2203	-116.0607	1.5160	NNSS-SPE Line 3 site 01
L3001	CNT	1782	605 D1C2	37.2203	-116.0607	1.5160	NNSS-SPE Line 3 site 01
L3001	CLZ	1783	52 D1C2	37.2203	-116.0607	1.5160	NNSS-SPE Line 3 site 01
L3001	CLR	1784	52 D1C2	37.2203	-116.0607	1.5160	NNSS-SPE Line 3 site 01
L3001	CLT	1785	52 D1C2	37.2203	-116.0607	1.5160	NNSS-SPE Line 3 site 01
L3001	CNZ	1786	605 D1C2	37.2203	-116.0607	1.5160	NNSS-SPE Line 3 site 01
L3001	CNR	1787	605 D1C2	37.2203	-116.0607	1.5160	NNSS-SPE Line 3 site 01
L3001	CNT	1788	605 D1C2	37.2203	-116.0607	1.5160	NNSS-SPE Line 3 site 01
L3001	CLZ	1789	52 D1C2	37.2203	-116.0607	1.5160	NNSS-SPE Line 3 site 01
L3001	CLR	1790	52 D1C2	37.2203	-116.0607	1.5160	NNSS-SPE Line 3 site 01
L3001	CLT	1791	52 D1C2	37.2203	-116.0607	1.5160	NNSS-SPE Line 3 site 01
L3001	CLZ	1792	52 D1C2	37.2203	-116.0607	1.5160	NNSS-SPE Line 3 site 01
L3001	CLR	1793	52 D1C2	37.2203	-116.0607	1.5160	NNSS-SPE Line 3 site 01
L3001	CLT	1794	52 D1C2	37.2203	-116.0607	1.5160	NNSS-SPE Line 3 site 01
L3001	CNZ	1795	605 D1C2	37.2203	-116.0607	1.5160	NNSS-SPE Line 3 site 01
L3001	CNR	1796	605 D1C2	37.2203	-116.0607	1.5160	NNSS-SPE Line 3 site 01
L3001	CNT	1797	605 D1C2	37.2203	-116.0607	1.5160	NNSS-SPE Line 3 site 01
L3001	CLZ	1798	28 D1C2	37.2203	-116.0607	1.5160	NNSS-SPE Line 3 site 01
L3001	CLR	1799	28 D1C2	37.2203	-116.0607	1.5160	NNSS-SPE Line 3 site 01
L3001	CLT	1800	28 D1C2	37.2203	-116.0607	1.5160	NNSS-SPE Line 3 site 01
L3001	CNZ	1801	605 D1C2	37.2203	-116.0607	1.5160	NNSS-SPE Line 3 site 01
L3001	CNR	1802	605 D1C2	37.2203	-116.0607	1.5160	NNSS-SPE Line 3 site 01

Appendix 7
Selected Metadata for SPE-6 Surface Stations

Station ID	Channel	Channel ID	Description	Estimated Latitude	Estimated Longitude	Elevation km (amsl)	Location
L3001	CNT	1803	605 D1C2	37.2203	-116.0607	1.5160	NNSS-SPE Line 3 site 01
L3002	CLZ	1804	81 9495	37.2194	-116.0606	1.5120	NNSS-SPE Line 3 site 02
L3002	CLZ	1805	81 9833	37.2194	-116.0606	1.5120	NNSS-SPE Line 3 site 02
L3002	CLZ	1806	81 9495	37.2194	-116.0606	1.5120	NNSS-SPE Line 3 site 02
L3002	CLZ	1807	81 9495	37.2194	-116.0606	1.5120	NNSS-SPE Line 3 site 02
L3002	CLZ	1808	81 9495	37.2194	-116.0606	1.5120	NNSS-SPE Line 3 site 02
L3002	CLZ	1809	81 9495	37.2194	-116.0606	1.5120	NNSS-SPE Line 3 site 02
L3002	CLZ	1810	81 9495	37.2194	-116.0606	1.5120	NNSS-SPE Line 3 site 02
L3002	CLZ	1811	81 B3BA	37.2194	-116.0606	1.5120	NNSS-SPE Line 3 site 02
L3002	CLR	1812	81 B3BA	37.2194	-116.0606	1.5120	NNSS-SPE Line 3 site 02
L3002	CLT	1813	81 B3BA	37.2194	-116.0606	1.5120	NNSS-SPE Line 3 site 02
L3002	CLZ	1814	81 B3BA	37.2194	-116.0606	1.5120	NNSS-SPE Line 3 site 02
L3002	CLR	1815	81 B3BA	37.2194	-116.0606	1.5120	NNSS-SPE Line 3 site 02
L3002	CLT	1816	81 B3BA	37.2194	-116.0606	1.5120	NNSS-SPE Line 3 site 02
L3002	CLZ	1817	214830-09 B3BA	37.2194	-116.0606	1.5120	NNSS-SPE Line 3 site 02
L3002	CLR	1818	214830-09 B3BA	37.2194	-116.0606	1.5120	NNSS-SPE Line 3 site 02
L3002	CLT	1819	214830-09 B3BA	37.2194	-116.0606	1.5120	NNSS-SPE Line 3 site 02
L3002	CLZ	1820	214830-09 B3BA	37.2194	-116.0606	1.5120	NNSS-SPE Line 3 site 02
L3002	CLR	1821	214830-09 B3BA	37.2194	-116.0606	1.5120	NNSS-SPE Line 3 site 02
L3002	CLT	1822	214830-09 B3BA	37.2194	-116.0606	1.5120	NNSS-SPE Line 3 site 02
L3002	CNZ	1823	177 B3BA	37.2194	-116.0606	1.5120	NNSS-SPE Line 3 site 02
L3002	CNR	1824	177 B3BA	37.2194	-116.0606	1.5120	NNSS-SPE Line 3 site 02
L3002	CNT	1825	177 B3BA	37.2194	-116.0606	1.5120	NNSS-SPE Line 3 site 02
L3002	CLZ	1826	214830-09 B3BA	37.2194	-116.0606	1.5120	NNSS-SPE Line 3 site 02
L3002	CLR	1827	214830-09 B3BA	37.2194	-116.0606	1.5120	NNSS-SPE Line 3 site 02
L3002	CLT	1828	214830-09 B3BA	37.2194	-116.0606	1.5120	NNSS-SPE Line 3 site 02
L3002	CNZ	1829	177 B3BA	37.2194	-116.0606	1.5120	NNSS-SPE Line 3 site 02
L3002	CNR	1830	177 B3BA	37.2194	-116.0606	1.5120	NNSS-SPE Line 3 site 02
L3002	CNT	1831	177 B3BA	37.2194	-116.0606	1.5120	NNSS-SPE Line 3 site 02
L3002	CLZ	1832	214830-09 B3BA	37.2194	-116.0606	1.5120	NNSS-SPE Line 3 site 02
L3002	CLR	1833	214830-09 B3BA	37.2194	-116.0606	1.5120	NNSS-SPE Line 3 site 02

Appendix 7
Selected Metadata for SPE-6 Surface Stations

Station ID	Channel	Channel ID	Description	Estimated Latitude	Estimated Longitude	Elevation km (amsl)	Location
L3002	CLT	1834	214830-09 B3BA	37.2194	-116.0606	1.5120	NNSS-SPE Line 3 site 02
L3002	CLZ	1835	214830-09 B3BA	37.2194	-116.0606	1.5120	NNSS-SPE Line 3 site 02
L3002	CLR	1836	214830-09 B3BA	37.2194	-116.0606	1.5120	NNSS-SPE Line 3 site 02
L3002	CLT	1837	214830-09 B3BA	37.2194	-116.0606	1.5120	NNSS-SPE Line 3 site 02
L3002	CNZ	1838	177 B3BA	37.2194	-116.0606	1.5120	NNSS-SPE Line 3 site 02
L3002	CNR	1839	177 B3BA	37.2194	-116.0606	1.5120	NNSS-SPE Line 3 site 02
L3002	CNT	1840	177 B3BA	37.2194	-116.0606	1.5120	NNSS-SPE Line 3 site 02
L3002	CLZ	1841	214830-09 B3BA	37.2194	-116.0606	1.5120	NNSS-SPE Line 3 site 02
L3002	CLR	1842	214830-09 B3BA	37.2194	-116.0606	1.5120	NNSS-SPE Line 3 site 02
L3002	CLT	1843	214830-09 B3BA	37.2194	-116.0606	1.5120	NNSS-SPE Line 3 site 02
L3002	CNZ	1844	177 B3BA	37.2194	-116.0606	1.5120	NNSS-SPE Line 3 site 02
L3002	CNR	1845	177 B3BA	37.2194	-116.0606	1.5120	NNSS-SPE Line 3 site 02
L3002	CNT	1846	177 B3BA	37.2194	-116.0606	1.5120	NNSS-SPE Line 3 site 02
L3002	CLZ	1847	214830-12 B3BA	37.2194	-116.0606	1.5120	NNSS-SPE Line 3 site 02
L3002	CLR	1848	214830-12 B3BA	37.2194	-116.0606	1.5120	NNSS-SPE Line 3 site 02
L3002	CLT	1849	214830-12 B3BA	37.2194	-116.0606	1.5120	NNSS-SPE Line 3 site 02
L3003	CLZ	1850	56 9495	37.2185	-116.0605	1.5120	NNSS-SPE Line 3 site 03
L3003	CLZ	1851	56 9833	37.2185	-116.0605	1.5120	NNSS-SPE Line 3 site 03
L3003	CLZ	1852	56 9495	37.2185	-116.0605	1.5120	NNSS-SPE Line 3 site 03
L3003	CLZ	1853	56 9495	37.2185	-116.0605	1.5120	NNSS-SPE Line 3 site 03
L3003	CLZ	1854	56 9495	37.2185	-116.0605	1.5120	NNSS-SPE Line 3 site 03
L3003	CLZ	1855	56 9495	37.2185	-116.0605	1.5120	NNSS-SPE Line 3 site 03
L3003	CLZ	1856	56 9495	37.2185	-116.0605	1.5120	NNSS-SPE Line 3 site 03
L3003	CLZ	1857	84 9495	37.2185	-116.0605	1.5120	NNSS-SPE Line 3 site 03
L3003	CLR	1858	84 9495	37.2185	-116.0605	1.5120	NNSS-SPE Line 3 site 03
L3003	CLT	1859	84 9495	37.2185	-116.0605	1.5120	NNSS-SPE Line 3 site 03
L3003	CLZ	1860	84 9495	37.2185	-116.0605	1.5120	NNSS-SPE Line 3 site 03
L3003	CLR	1861	84 9495	37.2185	-116.0605	1.5120	NNSS-SPE Line 3 site 03
L3003	CLT	1862	84 9495	37.2185	-116.0605	1.5120	NNSS-SPE Line 3 site 03
L3003	CLZ	1863	84 9495	37.2185	-116.0605	1.5120	NNSS-SPE Line 3 site 03
L3003	CLR	1864	84 9495	37.2185	-116.0605	1.5120	NNSS-SPE Line 3 site 03

Appendix 7
Selected Metadata for SPE-6 Surface Stations

Station ID	Channel	Channel ID	Description	Estimated Latitude	Estimated Longitude	Elevation km (amsl)	Location
L3003	CLT	1865	84 9495	37.2185	-116.0605	1.5120	NNSS-SPE Line 3 site 03
L3003	CLZ	1866	84 9495	37.2185	-116.0605	1.5120	NNSS-SPE Line 3 site 03
L3003	CLR	1867	84 9495	37.2185	-116.0605	1.5120	NNSS-SPE Line 3 site 03
L3003	CLT	1868	84 9495	37.2185	-116.0605	1.5120	NNSS-SPE Line 3 site 03
L3003	CLZ	1869	84 9E34	37.2185	-116.0605	1.5120	NNSS-SPE Line 3 site 03
L3003	CLR	1870	84 9E34	37.2185	-116.0605	1.5120	NNSS-SPE Line 3 site 03
L3003	CLT	1871	84 9E34	37.2185	-116.0605	1.5120	NNSS-SPE Line 3 site 03
L3003	CNZ	1872	179 9E34	37.2185	-116.0605	1.5120	NNSS-SPE Line 3 site 03
L3003	CNR	1873	179 9E34	37.2185	-116.0605	1.5120	NNSS-SPE Line 3 site 03
L3003	CNT	1874	179 9E34	37.2185	-116.0605	1.5120	NNSS-SPE Line 3 site 03
L3003	CLZ	1875	84 9E34	37.2185	-116.0605	1.5120	NNSS-SPE Line 3 site 03
L3003	CLR	1876	84 9E34	37.2185	-116.0605	1.5120	NNSS-SPE Line 3 site 03
L3003	CLT	1877	84 9E34	37.2185	-116.0605	1.5120	NNSS-SPE Line 3 site 03
L3003	CNZ	1878	179 9E34	37.2185	-116.0605	1.5120	NNSS-SPE Line 3 site 03
L3003	CNR	1879	179 9E34	37.2185	-116.0605	1.5120	NNSS-SPE Line 3 site 03
L3003	CNT	1880	179 9E34	37.2185	-116.0605	1.5120	NNSS-SPE Line 3 site 03
L3003	CLZ	1881	84 9E34	37.2185	-116.0605	1.5120	NNSS-SPE Line 3 site 03
L3003	CLR	1882	84 9E34	37.2185	-116.0605	1.5120	NNSS-SPE Line 3 site 03
L3003	CLT	1883	84 9E34	37.2185	-116.0605	1.5120	NNSS-SPE Line 3 site 03
L3003	CLZ	1884	84 9E34	37.2185	-116.0605	1.5120	NNSS-SPE Line 3 site 03
L3003	CLR	1885	84 9E34	37.2185	-116.0605	1.5120	NNSS-SPE Line 3 site 03
L3003	CLT	1886	84 9E34	37.2185	-116.0605	1.5120	NNSS-SPE Line 3 site 03
L3003	CNZ	1887	179 9E34	37.2185	-116.0605	1.5120	NNSS-SPE Line 3 site 03
L3003	CNR	1888	179 9E34	37.2185	-116.0605	1.5120	NNSS-SPE Line 3 site 03
L3003	CNT	1889	179 9E34	37.2185	-116.0605	1.5120	NNSS-SPE Line 3 site 03
L3003	CLZ	1890	104 9E34	37.2185	-116.0605	1.5120	NNSS-SPE Line 3 site 03
L3003	CLR	1891	104 9E34	37.2185	-116.0605	1.5120	NNSS-SPE Line 3 site 03
L3003	CLT	1892	104 9E34	37.2185	-116.0605	1.5120	NNSS-SPE Line 3 site 03
L3003	CNZ	1893	179 9E34	37.2185	-116.0605	1.5120	NNSS-SPE Line 3 site 03
L3003	CNR	1894	179 9E34	37.2185	-116.0605	1.5120	NNSS-SPE Line 3 site 03
L3003	CNT	1895	179 9E34	37.2185	-116.0605	1.5120	NNSS-SPE Line 3 site 03

Appendix 7
Selected Metadata for SPE-6 Surface Stations

Station ID	Channel	Channel ID	Description	Estimated Latitude	Estimated Longitude	Elevation km (amsl)	Location
L3004	CLZ	1896	44 9495	37.2176	-116.0603	1.4960	NNSS-SPE Line 3 site 04
L3004	CLR	1897	44 9495	37.2176	-116.0603	1.4960	NNSS-SPE Line 3 site 04
L3004	CLT	1898	44 9495	37.2176	-116.0603	1.4960	NNSS-SPE Line 3 site 04
L3004	CLZ	1899	44 9833	37.2176	-116.0603	1.4960	NNSS-SPE Line 3 site 04
L3004	CLR	1900	44 9833	37.2176	-116.0603	1.4960	NNSS-SPE Line 3 site 04
L3004	CLT	1901	44 9833	37.2176	-116.0603	1.4960	NNSS-SPE Line 3 site 04
L3004	CLZ	1902	44 9495	37.2176	-116.0603	1.4960	NNSS-SPE Line 3 site 04
L3004	CLR	1903	44 9495	37.2176	-116.0603	1.4960	NNSS-SPE Line 3 site 04
L3004	CLT	1904	44 9495	37.2176	-116.0603	1.4960	NNSS-SPE Line 3 site 04
L3004	CLZ	1905	44 9495	37.2176	-116.0603	1.4960	NNSS-SPE Line 3 site 04
L3004	CLR	1906	44 9495	37.2176	-116.0603	1.4960	NNSS-SPE Line 3 site 04
L3004	CLT	1907	44 9495	37.2176	-116.0603	1.4960	NNSS-SPE Line 3 site 04
L3004	CLZ	1908	44 9495	37.2176	-116.0603	1.4960	NNSS-SPE Line 3 site 04
L3004	CLR	1909	44 9495	37.2176	-116.0603	1.4960	NNSS-SPE Line 3 site 04
L3004	CLT	1910	44 9495	37.2176	-116.0603	1.4960	NNSS-SPE Line 3 site 04
L3004	CLZ	1911	44 9495	37.2176	-116.0603	1.4960	NNSS-SPE Line 3 site 04
L3004	CLR	1912	44 9495	37.2176	-116.0603	1.4960	NNSS-SPE Line 3 site 04
L3004	CLT	1913	44 9495	37.2176	-116.0603	1.4960	NNSS-SPE Line 3 site 04
L3004	CLZ	1914	44 9495	37.2176	-116.0603	1.4960	NNSS-SPE Line 3 site 04
L3004	CLR	1915	44 9495	37.2176	-116.0603	1.4960	NNSS-SPE Line 3 site 04
L3004	CLT	1916	44 9495	37.2176	-116.0603	1.4960	NNSS-SPE Line 3 site 04
L3004	CLZ	1917	44 9495	37.2176	-116.0603	1.4960	NNSS-SPE Line 3 site 04
L3004	CLR	1918	44 9495	37.2176	-116.0603	1.4960	NNSS-SPE Line 3 site 04
L3004	CLT	1919	44 9495	37.2176	-116.0603	1.4960	NNSS-SPE Line 3 site 04
L3004	CLZ	1920	44 9495	37.2176	-116.0603	1.4960	NNSS-SPE Line 3 site 04
L3004	CLR	1921	44 9495	37.2176	-116.0603	1.4960	NNSS-SPE Line 3 site 04
L3004	CLT	1922	44 9495	37.2176	-116.0603	1.4960	NNSS-SPE Line 3 site 04
L3004	CLZ	1923	44 9495	37.2176	-116.0603	1.4960	NNSS-SPE Line 3 site 04
L3004	CLR	1924	44 9495	37.2176	-116.0603	1.4960	NNSS-SPE Line 3 site 04
L3004	CLT	1925	44 9495	37.2176	-116.0603	1.4960	NNSS-SPE Line 3 site 04
L3004	CLZ	1926	44 9495	37.2176	-116.0603	1.4960	NNSS-SPE Line 3 site 04

Appendix 7
Selected Metadata for SPE-6 Surface Stations

Station ID	Channel	Channel ID	Description	Estimated Latitude	Estimated Longitude	Elevation km (amsl)	Location
L3004	CLR	1927	44 9495	37.2176	-116.0603	1.4960	NNSS-SPE Line 3 site 04
L3004	CLT	1928	44 9495	37.2176	-116.0603	1.4960	NNSS-SPE Line 3 site 04
L3004	CLZ	1929	44 9495	37.2176	-116.0603	1.4960	NNSS-SPE Line 3 site 04
L3004	CLR	1930	44 9495	37.2176	-116.0603	1.4960	NNSS-SPE Line 3 site 04
L3004	CLT	1931	44 9495	37.2176	-116.0603	1.4960	NNSS-SPE Line 3 site 04
L3004	CLZ	1932	44 9495	37.2176	-116.0603	1.4960	NNSS-SPE Line 3 site 04
L3004	CLR	1933	44 9495	37.2176	-116.0603	1.4960	NNSS-SPE Line 3 site 04
L3004	CLT	1934	44 9495	37.2176	-116.0603	1.4960	NNSS-SPE Line 3 site 04
L3004	CLZ	1935	44 9495	37.2176	-116.0603	1.4960	NNSS-SPE Line 3 site 04
L3004	CLR	1936	44 9495	37.2176	-116.0603	1.4960	NNSS-SPE Line 3 site 04
L3004	CLT	1937	44 9495	37.2176	-116.0603	1.4960	NNSS-SPE Line 3 site 04
L3004	CLZ	1938	225358-04 9495	37.2176	-116.0603	1.4960	NNSS-SPE Line 3 site 04
L3004	CLR	1939	225358-04 9495	37.2176	-116.0603	1.4960	NNSS-SPE Line 3 site 04
L3004	CLT	1940	225358-04 9495	37.2176	-116.0603	1.4960	NNSS-SPE Line 3 site 04
L3005	CLZ	1941	8 9E25	37.2167	-116.0602	1.4960	NNSS-SPE Line 3 site 05
L3005	CLZ	1942	8 9E25	37.2167	-116.0602	1.4960	NNSS-SPE Line 3 site 05
L3005	CLZ	1943	8 9E25	37.2167	-116.0602	1.4960	NNSS-SPE Line 3 site 05
L3005	CLZ	1944	8 9E25	37.2167	-116.0602	1.4960	NNSS-SPE Line 3 site 05
L3005	CLZ	1945	8 9E25	37.2167	-116.0602	1.4960	NNSS-SPE Line 3 site 05
L3005	CLZ	1946	8 9E25	37.2167	-116.0602	1.4960	NNSS-SPE Line 3 site 05
L3005	CLZ	1947	8 AF06	37.2167	-116.0602	1.4960	NNSS-SPE Line 3 site 05
L3005	CLR	1948	8 AF06	37.2167	-116.0602	1.4960	NNSS-SPE Line 3 site 05
L3005	CLT	1949	8 AF06	37.2167	-116.0602	1.4960	NNSS-SPE Line 3 site 05
L3005	CLZ	1950	8 AF06	37.2167	-116.0602	1.4960	NNSS-SPE Line 3 site 05
L3005	CLR	1951	8 AF06	37.2167	-116.0602	1.4960	NNSS-SPE Line 3 site 05
L3005	CLT	1952	8 AF06	37.2167	-116.0602	1.4960	NNSS-SPE Line 3 site 05
L3005	CLZ	1953	214830-02 AF06	37.2167	-116.0602	1.4960	NNSS-SPE Line 3 site 05
L3005	CLR	1954	214830-02 AF06	37.2167	-116.0602	1.4960	NNSS-SPE Line 3 site 05
L3005	CLT	1955	214830-02 AF06	37.2167	-116.0602	1.4960	NNSS-SPE Line 3 site 05
L3005	CLZ	1956	214830-02 AF06	37.2167	-116.0602	1.4960	NNSS-SPE Line 3 site 05
L3005	CLR	1957	214830-02 AF06	37.2167	-116.0602	1.4960	NNSS-SPE Line 3 site 05

Appendix 7
Selected Metadata for SPE-6 Surface Stations

Station ID	Channel	Channel ID	Description	Estimated Latitude	Estimated Longitude	Elevation km (amsl)	Location
L3005	CLT	1958	214830-02 AF06	37.2167	-116.0602	1.4960	NNSS-SPE Line 3 site 05
L3005	CLZ	1959	214830-02 AF06	37.2167	-116.0602	1.4960	NNSS-SPE Line 3 site 05
L3005	CLR	1960	214830-02 AF06	37.2167	-116.0602	1.4960	NNSS-SPE Line 3 site 05
L3005	CLT	1961	214830-02 AF06	37.2167	-116.0602	1.4960	NNSS-SPE Line 3 site 05
L3005	CLZ	1962	214830-02 AF06	37.2167	-116.0602	1.4960	NNSS-SPE Line 3 site 05
L3005	CLR	1963	214830-02 AF06	37.2167	-116.0602	1.4960	NNSS-SPE Line 3 site 05
L3005	CLT	1964	214830-02 AF06	37.2167	-116.0602	1.4960	NNSS-SPE Line 3 site 05
L3005	CLZ	1965	214830-02 AF06	37.2167	-116.0602	1.4960	NNSS-SPE Line 3 site 05
L3005	CLR	1966	214830-02 AF06	37.2167	-116.0602	1.4960	NNSS-SPE Line 3 site 05
L3005	CLT	1967	214830-02 AF06	37.2167	-116.0602	1.4960	NNSS-SPE Line 3 site 05
L3005	CLZ	1968	214830-02 AF06	37.2167	-116.0602	1.4960	NNSS-SPE Line 3 site 05
L3005	CLR	1969	214830-02 AF06	37.2167	-116.0602	1.4960	NNSS-SPE Line 3 site 05
L3005	CLT	1970	214830-02 AF06	37.2167	-116.0602	1.4960	NNSS-SPE Line 3 site 05
L3006	CLZ	1971	80 9E25	37.2158	-116.0600	1.4940	NNSS-SPE Line 3 site 06
L3006	CLZ	1972	80 9E25	37.2158	-116.0600	1.4940	NNSS-SPE Line 3 site 06
L3006	CLZ	1973	80 9E25	37.2158	-116.0600	1.4940	NNSS-SPE Line 3 site 06
L3006	CLZ	1974	80 9E25	37.2158	-116.0600	1.4940	NNSS-SPE Line 3 site 06
L3006	CLZ	1975	80 9E25	37.2158	-116.0600	1.4940	NNSS-SPE Line 3 site 06
L3006	CLZ	1976	80 9E25	37.2158	-116.0600	1.4940	NNSS-SPE Line 3 site 06
L3006	CLZ	1977	80 AF06	37.2158	-116.0600	1.4940	NNSS-SPE Line 3 site 06
L3006	CLR	1978	80 AF06	37.2158	-116.0600	1.4940	NNSS-SPE Line 3 site 06
L3006	CLT	1979	80 AF06	37.2158	-116.0600	1.4940	NNSS-SPE Line 3 site 06
L3006	CLZ	1980	80 AF06	37.2158	-116.0600	1.4940	NNSS-SPE Line 3 site 06
L3006	CLR	1981	80 AF06	37.2158	-116.0600	1.4940	NNSS-SPE Line 3 site 06
L3006	CLT	1982	80 AF06	37.2158	-116.0600	1.4940	NNSS-SPE Line 3 site 06
L3006	CLZ	1983	80 AF06	37.2158	-116.0600	1.4940	NNSS-SPE Line 3 site 06
L3006	CLR	1984	80 AF06	37.2158	-116.0600	1.4940	NNSS-SPE Line 3 site 06
L3006	CLT	1985	80 AF06	37.2158	-116.0600	1.4940	NNSS-SPE Line 3 site 06
L3006	CLZ	1986	80 AF06	37.2158	-116.0600	1.4940	NNSS-SPE Line 3 site 06
L3006	CLR	1987	80 AF06	37.2158	-116.0600	1.4940	NNSS-SPE Line 3 site 06
L3006	CLT	1988	80 AF06	37.2158	-116.0600	1.4940	NNSS-SPE Line 3 site 06

Appendix 7
Selected Metadata for SPE-6 Surface Stations

Station ID	Channel	Channel ID	Description	Estimated Latitude	Estimated Longitude	Elevation km (amsl)	Location
L3006	CLZ	1989	10 AF06	37.2158	-116.0600	1.4940	NNSS-SPE Line 3 site 06
L3006	CLR	1990	10 AF06	37.2158	-116.0600	1.4940	NNSS-SPE Line 3 site 06
L3006	CLT	1991	10 AF06	37.2158	-116.0600	1.4940	NNSS-SPE Line 3 site 06
L3006	CLZ	1992	10 AF06	37.2158	-116.0600	1.4940	NNSS-SPE Line 3 site 06
L3006	CLR	1993	10 AF06	37.2158	-116.0600	1.4940	NNSS-SPE Line 3 site 06
L3006	CLT	1994	10 AF06	37.2158	-116.0600	1.4940	NNSS-SPE Line 3 site 06
L3006	CLZ	1995	10 AF06	37.2158	-116.0600	1.4940	NNSS-SPE Line 3 site 06
L3006	CLR	1996	10 AF06	37.2158	-116.0600	1.4940	NNSS-SPE Line 3 site 06
L3006	CLT	1997	10 AF06	37.2158	-116.0600	1.4940	NNSS-SPE Line 3 site 06
L3006	CLZ	1998	10 AF06	37.2158	-116.0600	1.4940	NNSS-SPE Line 3 site 06
L3006	CLR	1999	10 AF06	37.2158	-116.0600	1.4940	NNSS-SPE Line 3 site 06
L3006	CLT	2000	10 AF06	37.2158	-116.0600	1.4940	NNSS-SPE Line 3 site 06
L3006	CLZ	2001	101 AF06	37.2158	-116.0600	1.4940	NNSS-SPE Line 3 site 06
L3006	CLR	2002	101 AF06	37.2158	-116.0600	1.4940	NNSS-SPE Line 3 site 06
L3006	CLT	2003	101 AF06	37.2158	-116.0600	1.4940	NNSS-SPE Line 3 site 06
L3007	CLZ	2004	58 9E25	37.2149	-116.0599	1.4870	NNSS-SPE Line 3 site 07
L3007	CLZ	2005	58 9E25	37.2149	-116.0599	1.4870	NNSS-SPE Line 3 site 07
L3007	CLZ	2006	58 9E25	37.2149	-116.0599	1.4870	NNSS-SPE Line 3 site 07
L3007	CLZ	2007	58 9E25	37.2149	-116.0599	1.4870	NNSS-SPE Line 3 site 07
L3007	CLZ	2008	58 9E25	37.2149	-116.0599	1.4870	NNSS-SPE Line 3 site 07
L3007	CLZ	2009	58 9E25	37.2149	-116.0599	1.4870	NNSS-SPE Line 3 site 07
L3007	CLZ	2010	58 9E25	37.2149	-116.0599	1.4870	NNSS-SPE Line 3 site 07
L3007	CLR	2011	58 9E25	37.2149	-116.0599	1.4870	NNSS-SPE Line 3 site 07
L3007	CLT	2012	58 9E25	37.2149	-116.0599	1.4870	NNSS-SPE Line 3 site 07
L3007	CLZ	2013	58 9E25	37.2149	-116.0599	1.4870	NNSS-SPE Line 3 site 07
L3007	CLR	2014	58 9E25	37.2149	-116.0599	1.4870	NNSS-SPE Line 3 site 07
L3007	CLT	2015	58 9E25	37.2149	-116.0599	1.4870	NNSS-SPE Line 3 site 07
L3007	CLZ	2016	58 BD74	37.2149	-116.0599	1.4870	NNSS-SPE Line 3 site 07
L3007	CLR	2017	58 BD74	37.2149	-116.0599	1.4870	NNSS-SPE Line 3 site 07
L3007	CLT	2018	58 BD74	37.2149	-116.0599	1.4870	NNSS-SPE Line 3 site 07
L3007	CLZ	2019	58 BD74	37.2149	-116.0599	1.4870	NNSS-SPE Line 3 site 07

Appendix 7
Selected Metadata for SPE-6 Surface Stations

Station ID	Channel	Channel ID	Description	Estimated Latitude	Estimated Longitude	Elevation km (amsl)	Location
L3007	CLR	2020	58 BD74	37.2149	-116.0599	1.4870	NNSS-SPE Line 3 site 07
L3007	CLT	2021	58 BD74	37.2149	-116.0599	1.4870	NNSS-SPE Line 3 site 07
L3007	CLZ	2022	58 BD74	37.2149	-116.0599	1.4870	NNSS-SPE Line 3 site 07
L3007	CLR	2023	58 BD74	37.2149	-116.0599	1.4870	NNSS-SPE Line 3 site 07
L3007	CLT	2024	58 BD74	37.2149	-116.0599	1.4870	NNSS-SPE Line 3 site 07
L3007	CLZ	2025	58 BD74	37.2149	-116.0599	1.4870	NNSS-SPE Line 3 site 07
L3007	CLR	2026	58 BD74	37.2149	-116.0599	1.4870	NNSS-SPE Line 3 site 07
L3007	CLT	2027	58 BD74	37.2149	-116.0599	1.4870	NNSS-SPE Line 3 site 07
L3007	CLZ	2028	58 BD74	37.2149	-116.0599	1.4870	NNSS-SPE Line 3 site 07
L3007	CLR	2029	58 BD74	37.2149	-116.0599	1.4870	NNSS-SPE Line 3 site 07
L3007	CLT	2030	58 BD74	37.2149	-116.0599	1.4870	NNSS-SPE Line 3 site 07
L3007	CLZ	2031	214830-08 BD74	37.2149	-116.0599	1.4870	NNSS-SPE Line 3 site 07
L3007	CLR	2032	214830-08 BD74	37.2149	-116.0599	1.4870	NNSS-SPE Line 3 site 07
L3007	CLT	2033	214830-08 BD74	37.2149	-116.0599	1.4870	NNSS-SPE Line 3 site 07
L3008	CLZ	2034	104 9E25	37.2140	-116.0598	1.4840	NNSS-SPE Line 3 site 08
L3008	CLR	2035	104 9E25	37.2140	-116.0598	1.4840	NNSS-SPE Line 3 site 08
L3008	CLT	2036	104 9E25	37.2140	-116.0598	1.4840	NNSS-SPE Line 3 site 08
L3008	CLZ	2037	104 9E25	37.2140	-116.0598	1.4840	NNSS-SPE Line 3 site 08
L3008	CLR	2038	104 9E25	37.2140	-116.0598	1.4840	NNSS-SPE Line 3 site 08
L3008	CLT	2039	104 9E25	37.2140	-116.0598	1.4840	NNSS-SPE Line 3 site 08
L3008	CLZ	2040	104 9E25	37.2140	-116.0598	1.4840	NNSS-SPE Line 3 site 08
L3008	CLR	2041	104 9E25	37.2140	-116.0598	1.4840	NNSS-SPE Line 3 site 08
L3008	CLT	2042	104 9E25	37.2140	-116.0598	1.4840	NNSS-SPE Line 3 site 08
L3008	CLZ	2043	104 9E25	37.2140	-116.0598	1.4840	NNSS-SPE Line 3 site 08
L3008	CLR	2044	104 9E25	37.2140	-116.0598	1.4840	NNSS-SPE Line 3 site 08
L3008	CLT	2045	104 9E25	37.2140	-116.0598	1.4840	NNSS-SPE Line 3 site 08
L3008	CLZ	2046	104 9E25	37.2140	-116.0598	1.4840	NNSS-SPE Line 3 site 08
L3008	CLR	2047	104 9E25	37.2140	-116.0598	1.4840	NNSS-SPE Line 3 site 08
L3008	CLT	2048	104 9E25	37.2140	-116.0598	1.4840	NNSS-SPE Line 3 site 08
L3008	CLZ	2049	104 9E25	37.2140	-116.0598	1.4840	NNSS-SPE Line 3 site 08
L3008	CLR	2050	104 9E25	37.2140	-116.0598	1.4840	NNSS-SPE Line 3 site 08

Appendix 7
Selected Metadata for SPE-6 Surface Stations

Station ID	Channel	Channel ID	Description	Estimated Latitude	Estimated Longitude	Elevation km (amsl)	Location
L3008	CLT	2051	104 9E25	37.2140	-116.0598	1.4840	NNSS-SPE Line 3 site 08
L3008	CLZ	2052	104 9E25	37.2140	-116.0598	1.4840	NNSS-SPE Line 3 site 08
L3008	CLR	2053	104 9E25	37.2140	-116.0598	1.4840	NNSS-SPE Line 3 site 08
L3008	CLT	2054	104 9E25	37.2140	-116.0598	1.4840	NNSS-SPE Line 3 site 08
L3008	CLZ	2055	104 BD74	37.2140	-116.0598	1.4840	NNSS-SPE Line 3 site 08
L3008	CLR	2056	104 BD74	37.2140	-116.0598	1.4840	NNSS-SPE Line 3 site 08
L3008	CLT	2057	104 BD74	37.2140	-116.0598	1.4840	NNSS-SPE Line 3 site 08
L3008	CLZ	2058	104 BD74	37.2140	-116.0598	1.4840	NNSS-SPE Line 3 site 08
L3008	CLR	2059	104 BD74	37.2140	-116.0598	1.4840	NNSS-SPE Line 3 site 08
L3008	CLT	2060	104 BD74	37.2140	-116.0598	1.4840	NNSS-SPE Line 3 site 08
L3008	CLZ	2061	104 BD74	37.2140	-116.0598	1.4840	NNSS-SPE Line 3 site 08
L3008	CLR	2062	104 BD74	37.2140	-116.0598	1.4840	NNSS-SPE Line 3 site 08
L3008	CLT	2063	104 BD74	37.2140	-116.0598	1.4840	NNSS-SPE Line 3 site 08
L3008	CLZ	2064	104 BD74	37.2140	-116.0598	1.4840	NNSS-SPE Line 3 site 08
L3008	CLR	2065	104 BD74	37.2140	-116.0598	1.4840	NNSS-SPE Line 3 site 08
L3008	CLT	2066	104 BD74	37.2140	-116.0598	1.4840	NNSS-SPE Line 3 site 08
L3008	CLZ	2067	104 BD74	37.2140	-116.0598	1.4840	NNSS-SPE Line 3 site 08
L3008	CLR	2068	104 BD74	37.2140	-116.0598	1.4840	NNSS-SPE Line 3 site 08
L3008	CLT	2069	104 BD74	37.2140	-116.0598	1.4840	NNSS-SPE Line 3 site 08
L3008	CLZ	2070	104 BD74	37.2140	-116.0598	1.4840	NNSS-SPE Line 3 site 08
L3008	CLR	2071	104 BD74	37.2140	-116.0598	1.4840	NNSS-SPE Line 3 site 08
L3008	CLT	2072	104 BD74	37.2140	-116.0598	1.4840	NNSS-SPE Line 3 site 08
L3009	CLZ	2073	61 9E27	37.2131	-116.0596	1.4690	NNSS-SPE Line 3 site 09
L3009	CLZ	2074	61 9E27	37.2131	-116.0596	1.4690	NNSS-SPE Line 3 site 09
L3009	CLZ	2075	61 9E27	37.2131	-116.0596	1.4690	NNSS-SPE Line 3 site 09
L3009	CLZ	2076	61 9E27	37.2131	-116.0596	1.4690	NNSS-SPE Line 3 site 09
L3009	CLZ	2077	61 9E27	37.2131	-116.0596	1.4690	NNSS-SPE Line 3 site 09
L3009	CLZ	2078	61 9E27	37.2131	-116.0596	1.4690	NNSS-SPE Line 3 site 09
L3009	CLZ	2079	61 B3AA	37.2131	-116.0596	1.4690	NNSS-SPE Line 3 site 09
L3009	CLR	2080	61 B3AA	37.2131	-116.0596	1.4690	NNSS-SPE Line 3 site 09
L3009	CLT	2081	61 B3AA	37.2131	-116.0596	1.4690	NNSS-SPE Line 3 site 09

Appendix 7
Selected Metadata for SPE-6 Surface Stations

Station ID	Channel	Channel ID	Description	Estimated Latitude	Estimated Longitude	Elevation km (amsl)	Location
L3009	CLZ	2082	61 B3AA	37.2131	-116.0596	1.4690	NNSS-SPE Line 3 site 09
L3009	CLR	2083	61 B3AA	37.2131	-116.0596	1.4690	NNSS-SPE Line 3 site 09
L3009	CLT	2084	61 B3AA	37.2131	-116.0596	1.4690	NNSS-SPE Line 3 site 09
L3009	CLZ	2085	61 B3AA	37.2131	-116.0596	1.4690	NNSS-SPE Line 3 site 09
L3009	CLR	2086	61 B3AA	37.2131	-116.0596	1.4690	NNSS-SPE Line 3 site 09
L3009	CLT	2087	61 B3AA	37.2131	-116.0596	1.4690	NNSS-SPE Line 3 site 09
L3009	CLZ	2088	61 B3AA	37.2131	-116.0596	1.4690	NNSS-SPE Line 3 site 09
L3009	CLR	2089	61 B3AA	37.2131	-116.0596	1.4690	NNSS-SPE Line 3 site 09
L3009	CLT	2090	61 B3AA	37.2131	-116.0596	1.4690	NNSS-SPE Line 3 site 09
L3009	CLZ	2091	61 B3AA	37.2131	-116.0596	1.4690	NNSS-SPE Line 3 site 09
L3009	CLR	2092	61 B3AA	37.2131	-116.0596	1.4690	NNSS-SPE Line 3 site 09
L3009	CLT	2093	61 B3AA	37.2131	-116.0596	1.4690	NNSS-SPE Line 3 site 09
L3009	CLZ	2094	61 BCED	37.2131	-116.0596	1.4690	NNSS-SPE Line 3 site 09
L3009	CLR	2095	61 BCED	37.2131	-116.0596	1.4690	NNSS-SPE Line 3 site 09
L3009	CLT	2096	61 BCED	37.2131	-116.0596	1.4690	NNSS-SPE Line 3 site 09
L3009	CLZ	2097	61 BCED	37.2131	-116.0596	1.4690	NNSS-SPE Line 3 site 09
L3009	CLR	2098	61 BCED	37.2131	-116.0596	1.4690	NNSS-SPE Line 3 site 09
L3009	CLT	2099	61 BCED	37.2131	-116.0596	1.4690	NNSS-SPE Line 3 site 09
L3009	CLZ	2100	61 BCED	37.2131	-116.0596	1.4690	NNSS-SPE Line 3 site 09
L3009	CLR	2101	61 BCED	37.2131	-116.0596	1.4690	NNSS-SPE Line 3 site 09
L3009	CLT	2102	61 BCED	37.2131	-116.0596	1.4690	NNSS-SPE Line 3 site 09
L3009	CLZ	2103	61 BCED	37.2131	-116.0596	1.4690	NNSS-SPE Line 3 site 09
L3009	CLR	2104	61 BCED	37.2131	-116.0596	1.4690	NNSS-SPE Line 3 site 09
L3009	CLT	2105	61 BCED	37.2131	-116.0596	1.4690	NNSS-SPE Line 3 site 09
L3009	CLZ	2106	61 BCED	37.2131	-116.0596	1.4690	NNSS-SPE Line 3 site 09
L3009	CLR	2107	61 BCED	37.2131	-116.0596	1.4690	NNSS-SPE Line 3 site 09
L3009	CLT	2108	61 BCED	37.2131	-116.0596	1.4690	NNSS-SPE Line 3 site 09
L3010	CNZ	2109	00610 9187	37.2122	-116.0595	1.4810	NNSS-SPE Line 3 site 10
L3010	CNR	2110	00610 9187	37.2122	-116.0595	1.4810	NNSS-SPE Line 3 site 10
L3010	CNT	2111	00610 9187	37.2122	-116.0595	1.4810	NNSS-SPE Line 3 site 10
L3010	DJZ	2112	A201515 9187	37.2122	-116.0595	1.4810	NNSS-SPE Line 3 site 10

Appendix 7
Selected Metadata for SPE-6 Surface Stations

Station ID	Channel	Channel ID	Description	Estimated Latitude	Estimated Longitude	Elevation km (amsl)	Location
L3010	DJR	2113	A201515 9187	37.2122	-116.0595	1.4810	NNSS-SPE Line 3 site 10
L3010	DJT	2114	A201515 9187	37.2122	-116.0595	1.4810	NNSS-SPE Line 3 site 10
L3010	CNZ	2115	00610 B3D4	37.2122	-116.0595	1.4810	NNSS-SPE Line 3 site 10
L3010	CNR	2116	00610 B3D4	37.2122	-116.0595	1.4810	NNSS-SPE Line 3 site 10
L3010	CNT	2117	00610 B3D4	37.2122	-116.0595	1.4810	NNSS-SPE Line 3 site 10
L3010	DJZ	2118	A201515 B3D4	37.2122	-116.0595	1.4810	NNSS-SPE Line 3 site 10
L3010	DJR	2119	A201515 B3D4	37.2122	-116.0595	1.4810	NNSS-SPE Line 3 site 10
L3010	DJT	2120	A201515 B3D4	37.2122	-116.0595	1.4810	NNSS-SPE Line 3 site 10
L3010	CLZ	2121	60 9E27	37.2122	-116.0595	1.4810	NNSS-SPE Line 3 site 10
L3010	CLZ	2122	60 9E27	37.2122	-116.0595	1.4810	NNSS-SPE Line 3 site 10
L3010	CLZ	2123	60 9E27	37.2122	-116.0595	1.4810	NNSS-SPE Line 3 site 10
L3010	CLZ	2124	60 9E27	37.2122	-116.0595	1.4810	NNSS-SPE Line 3 site 10
L3010	CLZ	2125	60 9E27	37.2122	-116.0595	1.4810	NNSS-SPE Line 3 site 10
L3010	CLZ	2126	60 9E27	37.2122	-116.0595	1.4810	NNSS-SPE Line 3 site 10
L3010	CLZ	2127	60 B3AA	37.2122	-116.0595	1.4810	NNSS-SPE Line 3 site 10
L3010	CLR	2128	60 B3AA	37.2122	-116.0595	1.4810	NNSS-SPE Line 3 site 10
L3010	CLT	2129	60 B3AA	37.2122	-116.0595	1.4810	NNSS-SPE Line 3 site 10
L3010	CLZ	2130	60 B3AA	37.2122	-116.0595	1.4810	NNSS-SPE Line 3 site 10
L3010	CLR	2131	60 B3AA	37.2122	-116.0595	1.4810	NNSS-SPE Line 3 site 10
L3010	CLT	2132	60 B3AA	37.2122	-116.0595	1.4810	NNSS-SPE Line 3 site 10
L3010	CLZ	2133	60 B3AA	37.2122	-116.0595	1.4810	NNSS-SPE Line 3 site 10
L3010	CLR	2134	60 B3AA	37.2122	-116.0595	1.4810	NNSS-SPE Line 3 site 10
L3010	CLT	2135	60 B3AA	37.2122	-116.0595	1.4810	NNSS-SPE Line 3 site 10
L3010	CLZ	2136	60 B3AA	37.2122	-116.0595	1.4810	NNSS-SPE Line 3 site 10
L3010	CLR	2137	60 B3AA	37.2122	-116.0595	1.4810	NNSS-SPE Line 3 site 10
L3010	CLT	2138	60 B3AA	37.2122	-116.0595	1.4810	NNSS-SPE Line 3 site 10
L3010	CLZ	2139	60 B3AA	37.2122	-116.0595	1.4810	NNSS-SPE Line 3 site 10
L3010	CLR	2140	60 B3AA	37.2122	-116.0595	1.4810	NNSS-SPE Line 3 site 10
L3010	CLT	2141	60 B3AA	37.2122	-116.0595	1.4810	NNSS-SPE Line 3 site 10
L3010	CLZ	2142	60 BCED	37.2122	-116.0595	1.4810	NNSS-SPE Line 3 site 10
L3010	CLR	2143	60 BCED	37.2122	-116.0595	1.4810	NNSS-SPE Line 3 site 10

Appendix 7
Selected Metadata for SPE-6 Surface Stations

Station ID	Channel	Channel ID	Description	Estimated Latitude	Estimated Longitude	Elevation km (amsl)	Location
L3010	CLT	2144	60 BCED	37.2122	-116.0595	1.4810	NNSS-SPE Line 3 site 10
L3010	CLZ	2145	60 BCED	37.2122	-116.0595	1.4810	NNSS-SPE Line 3 site 10
L3010	CLR	2146	60 BCED	37.2122	-116.0595	1.4810	NNSS-SPE Line 3 site 10
L3010	CLT	2147	60 BCED	37.2122	-116.0595	1.4810	NNSS-SPE Line 3 site 10
L3010	CLZ	2148	60 BCED	37.2122	-116.0595	1.4810	NNSS-SPE Line 3 site 10
L3010	CLR	2149	60 BCED	37.2122	-116.0595	1.4810	NNSS-SPE Line 3 site 10
L3010	CLT	2150	60 BCED	37.2122	-116.0595	1.4810	NNSS-SPE Line 3 site 10
L3010	CLZ	2151	60 BCED	37.2122	-116.0595	1.4810	NNSS-SPE Line 3 site 10
L3010	CLR	2152	60 BCED	37.2122	-116.0595	1.4810	NNSS-SPE Line 3 site 10
L3010	CLT	2153	60 BCED	37.2122	-116.0595	1.4810	NNSS-SPE Line 3 site 10
L3010	CLZ	2154	3 BCED	37.2122	-116.0595	1.4810	NNSS-SPE Line 3 site 10
L3010	CLR	2155	3 BCED	37.2122	-116.0595	1.4810	NNSS-SPE Line 3 site 10
L3010	CLT	2156	3 BCED	37.2122	-116.0595	1.4810	NNSS-SPE Line 3 site 10
L3011	CLZ	2157	13 9E27	37.2113	-116.0593	1.4750	NNSS-SPE Line 3 site 11
L3011	CLZ	2158	13 9E27	37.2113	-116.0593	1.4750	NNSS-SPE Line 3 site 11
L3011	CLZ	2159	13 9E27	37.2113	-116.0593	1.4750	NNSS-SPE Line 3 site 11
L3011	CLZ	2160	13 9E27	37.2113	-116.0593	1.4750	NNSS-SPE Line 3 site 11
L3011	CLZ	2161	13 9E27	37.2113	-116.0593	1.4750	NNSS-SPE Line 3 site 11
L3011	CLZ	2162	13 9E27	37.2113	-116.0593	1.4750	NNSS-SPE Line 3 site 11
L3011	CLZ	2163	13 9E27	37.2113	-116.0593	1.4750	NNSS-SPE Line 3 site 11
L3011	CLR	2164	13 9E27	37.2113	-116.0593	1.4750	NNSS-SPE Line 3 site 11
L3011	CLT	2165	13 9E27	37.2113	-116.0593	1.4750	NNSS-SPE Line 3 site 11
L3011	CLZ	2166	13 9E27	37.2113	-116.0593	1.4750	NNSS-SPE Line 3 site 11
L3011	CLR	2167	13 9E27	37.2113	-116.0593	1.4750	NNSS-SPE Line 3 site 11
L3011	CLT	2168	13 9E27	37.2113	-116.0593	1.4750	NNSS-SPE Line 3 site 11
L3011	CLZ	2169	214830-01 9E27	37.2113	-116.0593	1.4750	NNSS-SPE Line 3 site 11
L3011	CLR	2170	214830-01 9E27	37.2113	-116.0593	1.4750	NNSS-SPE Line 3 site 11
L3011	CLT	2171	214830-01 9E27	37.2113	-116.0593	1.4750	NNSS-SPE Line 3 site 11
L3011	CLZ	2172	214830-01 9E27	37.2113	-116.0593	1.4750	NNSS-SPE Line 3 site 11
L3011	CLR	2173	214830-01 9E27	37.2113	-116.0593	1.4750	NNSS-SPE Line 3 site 11
L3011	CLT	2174	214830-01 9E27	37.2113	-116.0593	1.4750	NNSS-SPE Line 3 site 11

Appendix 7
Selected Metadata for SPE-6 Surface Stations

Station ID	Channel	Channel ID	Description	Estimated Latitude	Estimated Longitude	Elevation km (amsl)	Location
L3011	CLZ	2175	214830-01 9E27	37.2113	-116.0593	1.4750	NNSS-SPE Line 3 site 11
L3011	CLR	2176	214830-01 9E27	37.2113	-116.0593	1.4750	NNSS-SPE Line 3 site 11
L3011	CLT	2177	214830-01 9E27	37.2113	-116.0593	1.4750	NNSS-SPE Line 3 site 11
L3011	CLZ	2178	214830-01 9E27	37.2113	-116.0593	1.4750	NNSS-SPE Line 3 site 11
L3011	CLR	2179	214830-01 9E27	37.2113	-116.0593	1.4750	NNSS-SPE Line 3 site 11
L3011	CLT	2180	214830-01 9E27	37.2113	-116.0593	1.4750	NNSS-SPE Line 3 site 11
L3011	CLZ	2181	214830-01 9E27	37.2113	-116.0593	1.4750	NNSS-SPE Line 3 site 11
L3011	CLR	2182	214830-01 9E27	37.2113	-116.0593	1.4750	NNSS-SPE Line 3 site 11
L3011	CLT	2183	214830-01 9E27	37.2113	-116.0593	1.4750	NNSS-SPE Line 3 site 11
L3011	CLZ	2184	214830-01 9E27	37.2113	-116.0593	1.4750	NNSS-SPE Line 3 site 11
L3011	CLR	2185	214830-01 9E27	37.2113	-116.0593	1.4750	NNSS-SPE Line 3 site 11
L3011	CLT	2186	214830-01 9E27	37.2113	-116.0593	1.4750	NNSS-SPE Line 3 site 11
L3012	CLZ	2187	50 9E27	37.2104	-116.0592	1.4640	NNSS-SPE Line 3 site 12
L3012	CLR	2188	50 9E27	37.2104	-116.0592	1.4640	NNSS-SPE Line 3 site 12
L3012	CLT	2189	50 9E27	37.2104	-116.0592	1.4640	NNSS-SPE Line 3 site 12
L3012	CLZ	2190	50 9E27	37.2104	-116.0592	1.4640	NNSS-SPE Line 3 site 12
L3012	CLR	2191	50 9E27	37.2104	-116.0592	1.4640	NNSS-SPE Line 3 site 12
L3012	CLT	2192	50 9E27	37.2104	-116.0592	1.4640	NNSS-SPE Line 3 site 12
L3012	CLZ	2193	50 9E27	37.2104	-116.0592	1.4640	NNSS-SPE Line 3 site 12
L3012	CLR	2194	50 9E27	37.2104	-116.0592	1.4640	NNSS-SPE Line 3 site 12
L3012	CLT	2195	50 9E27	37.2104	-116.0592	1.4640	NNSS-SPE Line 3 site 12
L3012	CLZ	2196	50 9E27	37.2104	-116.0592	1.4640	NNSS-SPE Line 3 site 12
L3012	CLR	2197	50 9E27	37.2104	-116.0592	1.4640	NNSS-SPE Line 3 site 12
L3012	CLT	2198	50 9E27	37.2104	-116.0592	1.4640	NNSS-SPE Line 3 site 12
L3012	CLZ	2199	50 9E27	37.2104	-116.0592	1.4640	NNSS-SPE Line 3 site 12
L3012	CLR	2200	50 9E27	37.2104	-116.0592	1.4640	NNSS-SPE Line 3 site 12
L3012	CLT	2201	50 9E27	37.2104	-116.0592	1.4640	NNSS-SPE Line 3 site 12
L3012	CLZ	2202	50 9E27	37.2104	-116.0592	1.4640	NNSS-SPE Line 3 site 12
L3012	CLR	2203	50 9E27	37.2104	-116.0592	1.4640	NNSS-SPE Line 3 site 12
L3012	CLT	2204	50 9E27	37.2104	-116.0592	1.4640	NNSS-SPE Line 3 site 12
L3012	CLZ	2205	50 9E27	37.2104	-116.0592	1.4640	NNSS-SPE Line 3 site 12

Appendix 7
Selected Metadata for SPE-6 Surface Stations

Station ID	Channel	Channel ID	Description	Estimated Latitude	Estimated Longitude	Elevation km (amsl)	Location
L3012	CLR	2206	50 9E27	37.2104	-116.0592	1.4640	NNSS-SPE Line 3 site 12
L3012	CLT	2207	50 9E27	37.2104	-116.0592	1.4640	NNSS-SPE Line 3 site 12
L3012	CLZ	2208	50 9E27	37.2104	-116.0592	1.4640	NNSS-SPE Line 3 site 12
L3012	CLR	2209	50 9E27	37.2104	-116.0592	1.4640	NNSS-SPE Line 3 site 12
L3012	CLT	2210	50 9E27	37.2104	-116.0592	1.4640	NNSS-SPE Line 3 site 12
L3012	CLZ	2211	214830-11 9E27	37.2104	-116.0592	1.4640	NNSS-SPE Line 3 site 12
L3012	CLR	2212	214830-11 9E27	37.2104	-116.0592	1.4640	NNSS-SPE Line 3 site 12
L3012	CLT	2213	214830-11 9E27	37.2104	-116.0592	1.4640	NNSS-SPE Line 3 site 12
L3012	CLZ	2214	214830-11 9E27	37.2104	-116.0592	1.4640	NNSS-SPE Line 3 site 12
L3012	CLR	2215	214830-11 9E27	37.2104	-116.0592	1.4640	NNSS-SPE Line 3 site 12
L3012	CLT	2216	214830-11 9E27	37.2104	-116.0592	1.4640	NNSS-SPE Line 3 site 12
L3012	CLZ	2217	214830-11 9E27	37.2104	-116.0592	1.4640	NNSS-SPE Line 3 site 12
L3012	CLR	2218	214830-11 9E27	37.2104	-116.0592	1.4640	NNSS-SPE Line 3 site 12
L3012	CLT	2219	214830-11 9E27	37.2104	-116.0592	1.4640	NNSS-SPE Line 3 site 12
L3012	CLZ	2220	214830-11 9E27	37.2104	-116.0592	1.4640	NNSS-SPE Line 3 site 12
L3012	CLR	2221	214830-11 9E27	37.2104	-116.0592	1.4640	NNSS-SPE Line 3 site 12
L3012	CLT	2222	214830-11 9E27	37.2104	-116.0592	1.4640	NNSS-SPE Line 3 site 12
L3012	CLZ	2223	214830-11 9E27	37.2104	-116.0592	1.4640	NNSS-SPE Line 3 site 12
L3012	CLR	2224	214830-11 9E27	37.2104	-116.0592	1.4640	NNSS-SPE Line 3 site 12
L3012	CLT	2225	214830-11 9E27	37.2104	-116.0592	1.4640	NNSS-SPE Line 3 site 12
L3012	CLZ	2226	225358-43 9E27	37.2104	-116.0592	1.4640	NNSS-SPE Line 3 site 12
L3012	CLR	2227	225358-43 9E27	37.2104	-116.0592	1.4640	NNSS-SPE Line 3 site 12
L3012	CLT	2228	225358-43 9E27	37.2104	-116.0592	1.4640	NNSS-SPE Line 3 site 12
L3013	CLZ	2229	100 9E34	37.2095	-116.0591	1.4590	NNSS-SPE Line 3 site 13
L3013	CLZ	2230	100 B3D1	37.2095	-116.0591	1.4590	NNSS-SPE Line 3 site 13
L3013	CLZ	2231	100 B3D1	37.2095	-116.0591	1.4590	NNSS-SPE Line 3 site 13
L3013	CLZ	2232	100 B3D1	37.2095	-116.0591	1.4590	NNSS-SPE Line 3 site 13
L3013	CLZ	2233	100 B3D1	37.2095	-116.0591	1.4590	NNSS-SPE Line 3 site 13
L3013	CLZ	2234	100 B3D1	37.2095	-116.0591	1.4590	NNSS-SPE Line 3 site 13
L3013	CLZ	2235	100 B3D1	37.2095	-116.0591	1.4590	NNSS-SPE Line 3 site 13
L3013	CLZ	2236	100 B3D3	37.2095	-116.0591	1.4590	NNSS-SPE Line 3 site 13

Appendix 7
Selected Metadata for SPE-6 Surface Stations

Station ID	Channel	Channel ID	Description	Estimated Latitude	Estimated Longitude	Elevation km (amsl)	Location
L3013	CLR	2237	100 B3D3	37.2095	-116.0591	1.4590	NNSS-SPE Line 3 site 13
L3013	CLT	2238	100 B3D3	37.2095	-116.0591	1.4590	NNSS-SPE Line 3 site 13
L3013	CLZ	2239	100 B3D3	37.2095	-116.0591	1.4590	NNSS-SPE Line 3 site 13
L3013	CLR	2240	100 B3D3	37.2095	-116.0591	1.4590	NNSS-SPE Line 3 site 13
L3013	CLT	2241	100 B3D3	37.2095	-116.0591	1.4590	NNSS-SPE Line 3 site 13
L3013	CLZ	2242	214830-15 B3D3	37.2095	-116.0591	1.4590	NNSS-SPE Line 3 site 13
L3013	CLR	2243	214830-15 B3D3	37.2095	-116.0591	1.4590	NNSS-SPE Line 3 site 13
L3013	CLT	2244	214830-15 B3D3	37.2095	-116.0591	1.4590	NNSS-SPE Line 3 site 13
L3013	CLZ	2245	214830-15 B3D3	37.2095	-116.0591	1.4590	NNSS-SPE Line 3 site 13
L3013	CLR	2246	214830-15 B3D3	37.2095	-116.0591	1.4590	NNSS-SPE Line 3 site 13
L3013	CLT	2247	214830-15 B3D3	37.2095	-116.0591	1.4590	NNSS-SPE Line 3 site 13
L3013	CLZ	2248	214830-15 B3D3	37.2095	-116.0591	1.4590	NNSS-SPE Line 3 site 13
L3013	CLR	2249	214830-15 B3D3	37.2095	-116.0591	1.4590	NNSS-SPE Line 3 site 13
L3013	CLT	2250	214830-15 B3D3	37.2095	-116.0591	1.4590	NNSS-SPE Line 3 site 13
L3013	CLZ	2251	214830-15 B3D3	37.2095	-116.0591	1.4590	NNSS-SPE Line 3 site 13
L3013	CLR	2252	214830-15 B3D3	37.2095	-116.0591	1.4590	NNSS-SPE Line 3 site 13
L3013	CLT	2253	214830-15 B3D3	37.2095	-116.0591	1.4590	NNSS-SPE Line 3 site 13
L3013	CLZ	2254	214830-15 B3D3	37.2095	-116.0591	1.4590	NNSS-SPE Line 3 site 13
L3013	CLR	2255	214830-15 B3D3	37.2095	-116.0591	1.4590	NNSS-SPE Line 3 site 13
L3013	CLT	2256	214830-15 B3D3	37.2095	-116.0591	1.4590	NNSS-SPE Line 3 site 13
L3013	CLZ	2257	214830-15 B3D3	37.2095	-116.0591	1.4590	NNSS-SPE Line 3 site 13
L3013	CLR	2258	214830-15 B3D3	37.2095	-116.0591	1.4590	NNSS-SPE Line 3 site 13
L3013	CLT	2259	214830-15 B3D3	37.2095	-116.0591	1.4590	NNSS-SPE Line 3 site 13
L3014	CLZ	2260	68 9E34	37.2087	-116.0589	1.4630	NNSS-SPE Line 3 site 14
L3014	CLZ	2261	68 B3D1	37.2087	-116.0589	1.4630	NNSS-SPE Line 3 site 14
L3014	CLZ	2262	68 B3D1	37.2087	-116.0589	1.4630	NNSS-SPE Line 3 site 14
L3014	CLZ	2263	68 B3D1	37.2087	-116.0589	1.4630	NNSS-SPE Line 3 site 14
L3014	CLZ	2264	68 B3D1	37.2087	-116.0589	1.4630	NNSS-SPE Line 3 site 14
L3014	CLZ	2265	68 B3D1	37.2087	-116.0589	1.4630	NNSS-SPE Line 3 site 14
L3014	CLZ	2266	68 B3D1	37.2087	-116.0589	1.4630	NNSS-SPE Line 3 site 14
L3014	CLZ	2267	68 B3D3	37.2087	-116.0589	1.4630	NNSS-SPE Line 3 site 14

Appendix 7
Selected Metadata for SPE-6 Surface Stations

Station ID	Channel	Channel ID	Description	Estimated Latitude	Estimated Longitude	Elevation km (amsl)	Location
L3014	CLR	2268	68 B3D3	37.2087	-116.0589	1.4630	NNSS-SPE Line 3 site 14
L3014	CLT	2269	68 B3D3	37.2087	-116.0589	1.4630	NNSS-SPE Line 3 site 14
L3014	CLZ	2270	68 B3D3	37.2087	-116.0589	1.4630	NNSS-SPE Line 3 site 14
L3014	CLR	2271	68 B3D3	37.2087	-116.0589	1.4630	NNSS-SPE Line 3 site 14
L3014	CLT	2272	68 B3D3	37.2087	-116.0589	1.4630	NNSS-SPE Line 3 site 14
L3014	CLZ	2273	68 B3D3	37.2087	-116.0589	1.4630	NNSS-SPE Line 3 site 14
L3014	CLR	2274	68 B3D3	37.2087	-116.0589	1.4630	NNSS-SPE Line 3 site 14
L3014	CLT	2275	68 B3D3	37.2087	-116.0589	1.4630	NNSS-SPE Line 3 site 14
L3014	CLZ	2276	68 B3D3	37.2087	-116.0589	1.4630	NNSS-SPE Line 3 site 14
L3014	CLR	2277	68 B3D3	37.2087	-116.0589	1.4630	NNSS-SPE Line 3 site 14
L3014	CLT	2278	68 B3D3	37.2087	-116.0589	1.4630	NNSS-SPE Line 3 site 14
L3014	CLZ	2279	68 B3D3	37.2087	-116.0589	1.4630	NNSS-SPE Line 3 site 14
L3014	CLR	2280	68 B3D3	37.2087	-116.0589	1.4630	NNSS-SPE Line 3 site 14
L3014	CLT	2281	68 B3D3	37.2087	-116.0589	1.4630	NNSS-SPE Line 3 site 14
L3014	CLZ	2282	68 B3D3	37.2087	-116.0589	1.4630	NNSS-SPE Line 3 site 14
L3014	CLR	2283	68 B3D3	37.2087	-116.0589	1.4630	NNSS-SPE Line 3 site 14
L3014	CLT	2284	68 B3D3	37.2087	-116.0589	1.4630	NNSS-SPE Line 3 site 14
L3014	CLZ	2285	68 B3D3	37.2087	-116.0589	1.4630	NNSS-SPE Line 3 site 14
L3014	CLR	2286	68 B3D3	37.2087	-116.0589	1.4630	NNSS-SPE Line 3 site 14
L3014	CLT	2287	68 B3D3	37.2087	-116.0589	1.4630	NNSS-SPE Line 3 site 14
L3014	CLZ	2288	12 B3D3	37.2087	-116.0589	1.4630	NNSS-SPE Line 3 site 14
L3014	CLR	2289	12 B3D3	37.2087	-116.0589	1.4630	NNSS-SPE Line 3 site 14
L3014	CLT	2290	12 B3D3	37.2087	-116.0589	1.4630	NNSS-SPE Line 3 site 14
L3015	CLZ	2291	89 9E34	37.2078	-116.0588	1.4530	NNSS-SPE Line 3 site 15
L3015	CLZ	2292	89 B3D1	37.2078	-116.0588	1.4530	NNSS-SPE Line 3 site 15
L3015	CLZ	2293	89 B3D1	37.2078	-116.0588	1.4530	NNSS-SPE Line 3 site 15
L3015	CLZ	2294	89 B3D1	37.2078	-116.0588	1.4530	NNSS-SPE Line 3 site 15
L3015	CLZ	2295	89 B3D1	37.2078	-116.0588	1.4530	NNSS-SPE Line 3 site 15
L3015	CLZ	2296	89 B3D1	37.2078	-116.0588	1.4530	NNSS-SPE Line 3 site 15
L3015	CLZ	2297	89 B3D1	37.2078	-116.0588	1.4530	NNSS-SPE Line 3 site 15
L3015	CLZ	2298	89 B3D1	37.2078	-116.0588	1.4530	NNSS-SPE Line 3 site 15

Appendix 7
Selected Metadata for SPE-6 Surface Stations

Station ID	Channel	Channel ID	Description	Estimated Latitude	Estimated Longitude	Elevation km (amsl)	Location
L3015	CLR	2299	89 B3D1	37.2078	-116.0588	1.4530	NNSS-SPE Line 3 site 15
L3015	CLT	2300	89 B3D1	37.2078	-116.0588	1.4530	NNSS-SPE Line 3 site 15
L3015	CLZ	2301	89 B3D1	37.2078	-116.0588	1.4530	NNSS-SPE Line 3 site 15
L3015	CLR	2302	89 B3D1	37.2078	-116.0588	1.4530	NNSS-SPE Line 3 site 15
L3015	CLT	2303	89 B3D1	37.2078	-116.0588	1.4530	NNSS-SPE Line 3 site 15
L3015	CLZ	2304	89 949E	37.2078	-116.0588	1.4530	NNSS-SPE Line 3 site 15
L3015	CLR	2305	89 949E	37.2078	-116.0588	1.4530	NNSS-SPE Line 3 site 15
L3015	CLT	2306	89 949E	37.2078	-116.0588	1.4530	NNSS-SPE Line 3 site 15
L3015	CLZ	2307	89 949E	37.2078	-116.0588	1.4530	NNSS-SPE Line 3 site 15
L3015	CLR	2308	89 949E	37.2078	-116.0588	1.4530	NNSS-SPE Line 3 site 15
L3015	CLT	2309	89 949E	37.2078	-116.0588	1.4530	NNSS-SPE Line 3 site 15
L3015	CLZ	2310	89 949E	37.2078	-116.0588	1.4530	NNSS-SPE Line 3 site 15
L3015	CLR	2311	89 949E	37.2078	-116.0588	1.4530	NNSS-SPE Line 3 site 15
L3015	CLT	2312	89 949E	37.2078	-116.0588	1.4530	NNSS-SPE Line 3 site 15
L3015	CLZ	2313	89 949E	37.2078	-116.0588	1.4530	NNSS-SPE Line 3 site 15
L3015	CLR	2314	89 949E	37.2078	-116.0588	1.4530	NNSS-SPE Line 3 site 15
L3015	CLT	2315	89 949E	37.2078	-116.0588	1.4530	NNSS-SPE Line 3 site 15
L3015	CLZ	2316	89 949E	37.2078	-116.0588	1.4530	NNSS-SPE Line 3 site 15
L3015	CLR	2317	89 949E	37.2078	-116.0588	1.4530	NNSS-SPE Line 3 site 15
L3015	CLT	2318	89 949E	37.2078	-116.0588	1.4530	NNSS-SPE Line 3 site 15
L3015	CLZ	2319	19 949E	37.2078	-116.0588	1.4530	NNSS-SPE Line 3 site 15
L3015	CLR	2320	19 949E	37.2078	-116.0588	1.4530	NNSS-SPE Line 3 site 15
L3015	CLT	2321	19 949E	37.2078	-116.0588	1.4530	NNSS-SPE Line 3 site 15
L3016	CLZ	2322	78 9E34	37.2069	-116.0586	1.4370	NNSS-SPE Line 3 site 16
L3016	CLR	2323	78 9E34	37.2069	-116.0586	1.4370	NNSS-SPE Line 3 site 16
L3016	CLT	2324	78 9E34	37.2069	-116.0586	1.4370	NNSS-SPE Line 3 site 16
L3016	CLZ	2325	78 B3D1	37.2069	-116.0586	1.4370	NNSS-SPE Line 3 site 16
L3016	CLR	2326	78 B3D1	37.2069	-116.0586	1.4370	NNSS-SPE Line 3 site 16
L3016	CLT	2327	78 B3D1	37.2069	-116.0586	1.4370	NNSS-SPE Line 3 site 16
L3016	CLZ	2328	78 B3D1	37.2069	-116.0586	1.4370	NNSS-SPE Line 3 site 16
L3016	CLR	2329	78 B3D1	37.2069	-116.0586	1.4370	NNSS-SPE Line 3 site 16

Appendix 7
Selected Metadata for SPE-6 Surface Stations

Station ID	Channel	Channel ID	Description	Estimated Latitude	Estimated Longitude	Elevation km (amsl)	Location
L3016	CLT	2330	78 B3D1	37.2069	-116.0586	1.4370	NNSS-SPE Line 3 site 16
L3016	CLZ	2331	78 B3D1	37.2069	-116.0586	1.4370	NNSS-SPE Line 3 site 16
L3016	CLR	2332	78 B3D1	37.2069	-116.0586	1.4370	NNSS-SPE Line 3 site 16
L3016	CLT	2333	78 B3D1	37.2069	-116.0586	1.4370	NNSS-SPE Line 3 site 16
L3016	CLZ	2334	78 B3D1	37.2069	-116.0586	1.4370	NNSS-SPE Line 3 site 16
L3016	CLR	2335	78 B3D1	37.2069	-116.0586	1.4370	NNSS-SPE Line 3 site 16
L3016	CLT	2336	78 B3D1	37.2069	-116.0586	1.4370	NNSS-SPE Line 3 site 16
L3016	CLZ	2337	78 B3D1	37.2069	-116.0586	1.4370	NNSS-SPE Line 3 site 16
L3016	CLR	2338	78 B3D1	37.2069	-116.0586	1.4370	NNSS-SPE Line 3 site 16
L3016	CLT	2339	78 B3D1	37.2069	-116.0586	1.4370	NNSS-SPE Line 3 site 16
L3016	CLZ	2340	78 B3D1	37.2069	-116.0586	1.4370	NNSS-SPE Line 3 site 16
L3016	CLR	2341	78 B3D1	37.2069	-116.0586	1.4370	NNSS-SPE Line 3 site 16
L3016	CLT	2342	78 B3D1	37.2069	-116.0586	1.4370	NNSS-SPE Line 3 site 16
L3016	CLZ	2343	78 B3D1	37.2069	-116.0586	1.4370	NNSS-SPE Line 3 site 16
L3016	CLR	2344	78 B3D1	37.2069	-116.0586	1.4370	NNSS-SPE Line 3 site 16
L3016	CLT	2345	78 B3D1	37.2069	-116.0586	1.4370	NNSS-SPE Line 3 site 16
L3016	CLZ	2346	78 B3D1	37.2069	-116.0586	1.4370	NNSS-SPE Line 3 site 16
L3016	CLR	2347	78 B3D1	37.2069	-116.0586	1.4370	NNSS-SPE Line 3 site 16
L3016	CLT	2348	78 B3D1	37.2069	-116.0586	1.4370	NNSS-SPE Line 3 site 16
L3016	CLZ	2349	78 949E	37.2069	-116.0586	1.4370	NNSS-SPE Line 3 site 16
L3016	CLR	2350	78 949E	37.2069	-116.0586	1.4370	NNSS-SPE Line 3 site 16
L3016	CLT	2351	78 949E	37.2069	-116.0586	1.4370	NNSS-SPE Line 3 site 16
L3016	CLZ	2352	78 949E	37.2069	-116.0586	1.4370	NNSS-SPE Line 3 site 16
L3016	CLR	2353	78 949E	37.2069	-116.0586	1.4370	NNSS-SPE Line 3 site 16
L3016	CLT	2354	78 949E	37.2069	-116.0586	1.4370	NNSS-SPE Line 3 site 16
L3016	CLZ	2355	78 949E	37.2069	-116.0586	1.4370	NNSS-SPE Line 3 site 16
L3016	CLR	2356	78 949E	37.2069	-116.0586	1.4370	NNSS-SPE Line 3 site 16
L3016	CLT	2357	78 949E	37.2069	-116.0586	1.4370	NNSS-SPE Line 3 site 16
L3016	CLZ	2358	78 949E	37.2069	-116.0586	1.4370	NNSS-SPE Line 3 site 16
L3016	CLR	2359	78 949E	37.2069	-116.0586	1.4370	NNSS-SPE Line 3 site 16
L3016	CLT	2360	78 949E	37.2069	-116.0586	1.4370	NNSS-SPE Line 3 site 16

Appendix 7
Selected Metadata for SPE-6 Surface Stations

Station ID	Channel	Channel ID	Description	Estimated Latitude	Estimated Longitude	Elevation km (amsl)	Location
L3016	CLZ	2361	78 949E	37.2069	-116.0586	1.4370	NNSS-SPE Line 3 site 16
L3016	CLR	2362	78 949E	37.2069	-116.0586	1.4370	NNSS-SPE Line 3 site 16
L3016	CLT	2363	78 949E	37.2069	-116.0586	1.4370	NNSS-SPE Line 3 site 16
L3016	CLZ	2364	114 949E	37.2069	-116.0586	1.4370	NNSS-SPE Line 3 site 16
L3016	CLR	2365	114 949E	37.2069	-116.0586	1.4370	NNSS-SPE Line 3 site 16
L3016	CLT	2366	114 949E	37.2069	-116.0586	1.4370	NNSS-SPE Line 3 site 16
L3017	CLZ	2367	93 949E	37.2060	-116.0585	1.4310	NNSS-SPE Line 3 site 17
L3017	CLZ	2368	93 949E	37.2060	-116.0585	1.4310	NNSS-SPE Line 3 site 17
L3017	CLZ	2369	93 949E	37.2060	-116.0585	1.4310	NNSS-SPE Line 3 site 17
L3017	CLZ	2370	93 949E	37.2060	-116.0585	1.4310	NNSS-SPE Line 3 site 17
L3017	CLZ	2371	93 949E	37.2060	-116.0585	1.4310	NNSS-SPE Line 3 site 17
L3017	CLZ	2372	93 949E	37.2060	-116.0585	1.4310	NNSS-SPE Line 3 site 17
L3017	CLZ	2373	93 949E	37.2060	-116.0585	1.4310	NNSS-SPE Line 3 site 17
L3017	CLZ	2374	93 B3C1	37.2060	-116.0585	1.4310	NNSS-SPE Line 3 site 17
L3017	CLR	2375	93 B3C1	37.2060	-116.0585	1.4310	NNSS-SPE Line 3 site 17
L3017	CLT	2376	93 B3C1	37.2060	-116.0585	1.4310	NNSS-SPE Line 3 site 17
L3017	CLZ	2377	93 B3C1	37.2060	-116.0585	1.4310	NNSS-SPE Line 3 site 17
L3017	CLR	2378	93 B3C1	37.2060	-116.0585	1.4310	NNSS-SPE Line 3 site 17
L3017	CLT	2379	93 B3C1	37.2060	-116.0585	1.4310	NNSS-SPE Line 3 site 17
L3017	CLZ	2380	214830-04 B3C1	37.2060	-116.0585	1.4310	NNSS-SPE Line 3 site 17
L3017	CLR	2381	214830-04 B3C1	37.2060	-116.0585	1.4310	NNSS-SPE Line 3 site 17
L3017	CLT	2382	214830-04 B3C1	37.2060	-116.0585	1.4310	NNSS-SPE Line 3 site 17
L3017	CLZ	2383	214830-04 B3C1	37.2060	-116.0585	1.4310	NNSS-SPE Line 3 site 17
L3017	CLR	2384	214830-04 B3C1	37.2060	-116.0585	1.4310	NNSS-SPE Line 3 site 17
L3017	CLT	2385	214830-04 B3C1	37.2060	-116.0585	1.4310	NNSS-SPE Line 3 site 17
L3017	CLZ	2386	214830-04 B3C1	37.2060	-116.0585	1.4310	NNSS-SPE Line 3 site 17
L3017	CLR	2387	214830-04 B3C1	37.2060	-116.0585	1.4310	NNSS-SPE Line 3 site 17
L3017	CLT	2388	214830-04 B3C1	37.2060	-116.0585	1.4310	NNSS-SPE Line 3 site 17
L3017	CLZ	2389	214830-04 B3C1	37.2060	-116.0585	1.4310	NNSS-SPE Line 3 site 17
L3017	CLR	2390	214830-04 B3C1	37.2060	-116.0585	1.4310	NNSS-SPE Line 3 site 17
L3017	CLT	2391	214830-04 B3C1	37.2060	-116.0585	1.4310	NNSS-SPE Line 3 site 17

Appendix 7
Selected Metadata for SPE-6 Surface Stations

Station ID	Channel	Channel ID	Description	Estimated Latitude	Estimated Longitude	Elevation km (amsl)	Location
L3017	CLZ	2392	214830-04 B3C1	37.2060	-116.0585	1.4310	NNSS-SPE Line 3 site 17
L3017	CLR	2393	214830-04 B3C1	37.2060	-116.0585	1.4310	NNSS-SPE Line 3 site 17
L3017	CLT	2394	214830-04 B3C1	37.2060	-116.0585	1.4310	NNSS-SPE Line 3 site 17
L3017	CLZ	2395	18 B3C1	37.2060	-116.0585	1.4310	NNSS-SPE Line 3 site 17
L3017	CLR	2396	18 B3C1	37.2060	-116.0585	1.4310	NNSS-SPE Line 3 site 17
L3017	CLT	2397	18 B3C1	37.2060	-116.0585	1.4310	NNSS-SPE Line 3 site 17
L3018	CLZ	2398	1 949E	37.2051	-116.0584	1.4340	NNSS-SPE Line 3 site 18
L3018	CLZ	2399	1 949E	37.2051	-116.0584	1.4340	NNSS-SPE Line 3 site 18
L3018	CLZ	2400	1 949E	37.2051	-116.0584	1.4340	NNSS-SPE Line 3 site 18
L3018	CLZ	2401	1 949E	37.2051	-116.0584	1.4340	NNSS-SPE Line 3 site 18
L3018	CLZ	2402	1 949E	37.2051	-116.0584	1.4340	NNSS-SPE Line 3 site 18
L3018	CLZ	2403	1 949E	37.2051	-116.0584	1.4340	NNSS-SPE Line 3 site 18
L3018	CLZ	2404	1 949E	37.2051	-116.0584	1.4340	NNSS-SPE Line 3 site 18
L3018	CLZ	2405	1 B3C1	37.2051	-116.0584	1.4340	NNSS-SPE Line 3 site 18
L3018	CLR	2406	1 B3C1	37.2051	-116.0584	1.4340	NNSS-SPE Line 3 site 18
L3018	CLT	2407	1 B3C1	37.2051	-116.0584	1.4340	NNSS-SPE Line 3 site 18
L3018	CLZ	2408	1 B3C1	37.2051	-116.0584	1.4340	NNSS-SPE Line 3 site 18
L3018	CLR	2409	1 B3C1	37.2051	-116.0584	1.4340	NNSS-SPE Line 3 site 18
L3018	CLT	2410	1 B3C1	37.2051	-116.0584	1.4340	NNSS-SPE Line 3 site 18
L3018	CLZ	2411	1 B3C1	37.2051	-116.0584	1.4340	NNSS-SPE Line 3 site 18
L3018	CLR	2412	1 B3C1	37.2051	-116.0584	1.4340	NNSS-SPE Line 3 site 18
L3018	CLT	2413	1 B3C1	37.2051	-116.0584	1.4340	NNSS-SPE Line 3 site 18
L3018	CLZ	2414	1 B3C1	37.2051	-116.0584	1.4340	NNSS-SPE Line 3 site 18
L3018	CLR	2415	1 B3C1	37.2051	-116.0584	1.4340	NNSS-SPE Line 3 site 18
L3018	CLT	2416	1 B3C1	37.2051	-116.0584	1.4340	NNSS-SPE Line 3 site 18
L3018	CLZ	2417	1 B3C1	37.2051	-116.0584	1.4340	NNSS-SPE Line 3 site 18
L3018	CLR	2418	1 B3C1	37.2051	-116.0584	1.4340	NNSS-SPE Line 3 site 18
L3018	CLT	2419	1 B3C1	37.2051	-116.0584	1.4340	NNSS-SPE Line 3 site 18
L3018	CLZ	2420	1 B3C1	37.2051	-116.0584	1.4340	NNSS-SPE Line 3 site 18
L3018	CLR	2421	1 B3C1	37.2051	-116.0584	1.4340	NNSS-SPE Line 3 site 18
L3018	CLT	2422	1 B3C1	37.2051	-116.0584	1.4340	NNSS-SPE Line 3 site 18

Appendix 7
Selected Metadata for SPE-6 Surface Stations

Station ID	Channel	Channel ID	Description	Estimated Latitude	Estimated Longitude	Elevation km (amsl)	Location
L3018	CLZ	2423	1 B3C1	37.2051	-116.0584	1.4340	NNSS-SPE Line 3 site 18
L3018	CLR	2424	1 B3C1	37.2051	-116.0584	1.4340	NNSS-SPE Line 3 site 18
L3018	CLT	2425	1 B3C1	37.2051	-116.0584	1.4340	NNSS-SPE Line 3 site 18
L3018	CLZ	2426	225358-50 B3C1	37.2051	-116.0584	1.4340	NNSS-SPE Line 3 site 18
L3018	CLR	2427	225358-50 B3C1	37.2051	-116.0584	1.4340	NNSS-SPE Line 3 site 18
L3018	CLT	2428	225358-50 B3C1	37.2051	-116.0584	1.4340	NNSS-SPE Line 3 site 18
L3019	CLZ	2429	86 949E	37.2042	-116.0582	1.4280	NNSS-SPE Line 3 site 19
L3019	CLZ	2430	86 949E	37.2042	-116.0582	1.4280	NNSS-SPE Line 3 site 19
L3019	CLZ	2431	86 949E	37.2042	-116.0582	1.4280	NNSS-SPE Line 3 site 19
L3019	CLZ	2432	86 949E	37.2042	-116.0582	1.4280	NNSS-SPE Line 3 site 19
L3019	CLZ	2433	86 949E	37.2042	-116.0582	1.4280	NNSS-SPE Line 3 site 19
L3019	CLZ	2434	86 949E	37.2042	-116.0582	1.4280	NNSS-SPE Line 3 site 19
L3019	CLZ	2435	86 949E	37.2042	-116.0582	1.4280	NNSS-SPE Line 3 site 19
L3019	CLZ	2436	86 949E	37.2042	-116.0582	1.4280	NNSS-SPE Line 3 site 19
L3019	CLR	2437	86 949E	37.2042	-116.0582	1.4280	NNSS-SPE Line 3 site 19
L3019	CLT	2438	86 949E	37.2042	-116.0582	1.4280	NNSS-SPE Line 3 site 19
L3019	CLZ	2439	86 949E	37.2042	-116.0582	1.4280	NNSS-SPE Line 3 site 19
L3019	CLR	2440	86 949E	37.2042	-116.0582	1.4280	NNSS-SPE Line 3 site 19
L3019	CLT	2441	86 949E	37.2042	-116.0582	1.4280	NNSS-SPE Line 3 site 19
L3019	CLZ	2442	86 9DE6	37.2042	-116.0582	1.4280	NNSS-SPE Line 3 site 19
L3019	CLR	2443	86 9DE6	37.2042	-116.0582	1.4280	NNSS-SPE Line 3 site 19
L3019	CLT	2444	86 9DE6	37.2042	-116.0582	1.4280	NNSS-SPE Line 3 site 19
L3019	CLZ	2445	86 9DE6	37.2042	-116.0582	1.4280	NNSS-SPE Line 3 site 19
L3019	CLR	2446	86 9DE6	37.2042	-116.0582	1.4280	NNSS-SPE Line 3 site 19
L3019	CLT	2447	86 9DE6	37.2042	-116.0582	1.4280	NNSS-SPE Line 3 site 19
L3019	CLZ	2448	11 9DE6	37.2042	-116.0582	1.4280	NNSS-SPE Line 3 site 19
L3019	CLR	2449	11 9DE6	37.2042	-116.0582	1.4280	NNSS-SPE Line 3 site 19
L3019	CLT	2450	11 9DE6	37.2042	-116.0582	1.4280	NNSS-SPE Line 3 site 19
L3019	CLZ	2451	11 9DE6	37.2042	-116.0582	1.4280	NNSS-SPE Line 3 site 19
L3019	CLR	2452	11 9DE6	37.2042	-116.0582	1.4280	NNSS-SPE Line 3 site 19
L3019	CLT	2453	11 9DE6	37.2042	-116.0582	1.4280	NNSS-SPE Line 3 site 19

Appendix 7
Selected Metadata for SPE-6 Surface Stations

Station ID	Channel	Channel ID	Description	Estimated Latitude	Estimated Longitude	Elevation km (amsl)	Location
L3019	CLZ	2454	11 9DE6	37.2042	-116.0582	1.4280	NNSS-SPE Line 3 site 19
L3019	CLR	2455	11 9DE6	37.2042	-116.0582	1.4280	NNSS-SPE Line 3 site 19
L3019	CLT	2456	11 9DE6	37.2042	-116.0582	1.4280	NNSS-SPE Line 3 site 19
L3019	CLZ	2457	11 9DE6	37.2042	-116.0582	1.4280	NNSS-SPE Line 3 site 19
L3019	CLR	2458	11 9DE6	37.2042	-116.0582	1.4280	NNSS-SPE Line 3 site 19
L3019	CLT	2459	11 9DE6	37.2042	-116.0582	1.4280	NNSS-SPE Line 3 site 19
L3019	CLZ	2460	25 9DE6	37.2042	-116.0582	1.4280	NNSS-SPE Line 3 site 19
L3019	CLR	2461	25 9DE6	37.2042	-116.0582	1.4280	NNSS-SPE Line 3 site 19
L3019	CLT	2462	25 9DE6	37.2042	-116.0582	1.4280	NNSS-SPE Line 3 site 19
L3020	DHZ	2463	T4346 949E	37.2033	-116.0581	1.4230	NNSS-SPE Line 3 site 20
L3020	DHR	2464	T4346 949E	37.2033	-116.0581	1.4230	NNSS-SPE Line 3 site 20
L3020	DHT	2465	T4346 949E	37.2033	-116.0581	1.4230	NNSS-SPE Line 3 site 20
L3020	DHZ	2466	T4346 949E	37.2033	-116.0581	1.4230	NNSS-SPE Line 3 site 20
L3020	DHR	2467	T4346 949E	37.2033	-116.0581	1.4230	NNSS-SPE Line 3 site 20
L3020	DHT	2468	T4346 949E	37.2033	-116.0581	1.4230	NNSS-SPE Line 3 site 20
L3020	DHZ	2469	T4346 949E	37.2033	-116.0581	1.4230	NNSS-SPE Line 3 site 20
L3020	DHR	2470	T4346 949E	37.2033	-116.0581	1.4230	NNSS-SPE Line 3 site 20
L3020	DHT	2471	T4346 949E	37.2033	-116.0581	1.4230	NNSS-SPE Line 3 site 20
L3020	DHZ	2472	T4346 949E	37.2033	-116.0581	1.4230	NNSS-SPE Line 3 site 20
L3020	DHR	2473	T4346 949E	37.2033	-116.0581	1.4230	NNSS-SPE Line 3 site 20
L3020	DHT	2474	T4346 949E	37.2033	-116.0581	1.4230	NNSS-SPE Line 3 site 20
L3020	DHZ	2475	T4346 949E	37.2033	-116.0581	1.4230	NNSS-SPE Line 3 site 20
L3020	DHR	2476	T4346 949E	37.2033	-116.0581	1.4230	NNSS-SPE Line 3 site 20
L3020	DHT	2477	T4346 949E	37.2033	-116.0581	1.4230	NNSS-SPE Line 3 site 20
L3020	DHZ	2478	T4346 949E	37.2033	-116.0581	1.4230	NNSS-SPE Line 3 site 20
L3020	DHR	2479	T4346 949E	37.2033	-116.0581	1.4230	NNSS-SPE Line 3 site 20
L3020	DHT	2480	T4346 949E	37.2033	-116.0581	1.4230	NNSS-SPE Line 3 site 20
L3020	DHZ	2481	T4346 949E	37.2033	-116.0581	1.4230	NNSS-SPE Line 3 site 20
L3020	DHR	2482	T4346 949E	37.2033	-116.0581	1.4230	NNSS-SPE Line 3 site 20
L3020	DHT	2483	T4346 949E	37.2033	-116.0581	1.4230	NNSS-SPE Line 3 site 20
L3020	DHZ	2484	T4346 949E	37.2033	-116.0581	1.4230	NNSS-SPE Line 3 site 20

Appendix 7
Selected Metadata for SPE-6 Surface Stations

Station ID	Channel	Channel ID	Description	Estimated Latitude	Estimated Longitude	Elevation km (amsl)	Location
L3020	DHR	2485	T4346 949E	37.2033	-116.0581	1.4230	NNSS-SPE Line 3 site 20
L3020	DHT	2486	T4346 949E	37.2033	-116.0581	1.4230	NNSS-SPE Line 3 site 20
L3020	DHZ	2487	T4346 949E	37.2033	-116.0581	1.4230	NNSS-SPE Line 3 site 20
L3020	DHR	2488	T4346 949E	37.2033	-116.0581	1.4230	NNSS-SPE Line 3 site 20
L3020	DHT	2489	T4346 949E	37.2033	-116.0581	1.4230	NNSS-SPE Line 3 site 20
L3020	DHZ	2490	T4346 9DE6	37.2033	-116.0581	1.4230	NNSS-SPE Line 3 site 20
L3020	DHR	2491	T4346 9DE6	37.2033	-116.0581	1.4230	NNSS-SPE Line 3 site 20
L3020	DHT	2492	T4346 9DE6	37.2033	-116.0581	1.4230	NNSS-SPE Line 3 site 20
L3020	CHZ	2493	1017 9DE6	37.2033	-116.0581	1.4230	NNSS-SPE Line 3 site 20
L3020	CHR	2494	1017 9DE6	37.2033	-116.0581	1.4230	NNSS-SPE Line 3 site 20
L3020	CHT	2495	1017 9DE6	37.2033	-116.0581	1.4230	NNSS-SPE Line 3 site 20
L3020	CHZ	2496	1017 9DE6	37.2033	-116.0581	1.4230	NNSS-SPE Line 3 site 20
L3020	CHR	2497	1017 9DE6	37.2033	-116.0581	1.4230	NNSS-SPE Line 3 site 20
L3020	CHT	2498	1017 9DE6	37.2033	-116.0581	1.4230	NNSS-SPE Line 3 site 20
L3020	CHZ	2499	1017 9DE6	37.2033	-116.0581	1.4230	NNSS-SPE Line 3 site 20
L3020	CHR	2500	1017 9DE6	37.2033	-116.0581	1.4230	NNSS-SPE Line 3 site 20
L3020	CHT	2501	1017 9DE6	37.2033	-116.0581	1.4230	NNSS-SPE Line 3 site 20
L3020	CHZ	2502	1017 9DE6	37.2033	-116.0581	1.4230	NNSS-SPE Line 3 site 20
L3020	CHR	2503	1017 9DE6	37.2033	-116.0581	1.4230	NNSS-SPE Line 3 site 20
L3020	CHT	2504	1017 9DE6	37.2033	-116.0581	1.4230	NNSS-SPE Line 3 site 20
L3020	CHZ	2505	1017 9DE6	37.2033	-116.0581	1.4230	NNSS-SPE Line 3 site 20
L3020	CHR	2506	1017 9DE6	37.2033	-116.0581	1.4230	NNSS-SPE Line 3 site 20
L3020	CHT	2507	1017 9DE6	37.2033	-116.0581	1.4230	NNSS-SPE Line 3 site 20
L3023	CHZ	2508	452 919B	37.1899	-116.0560	1.3450	NNSS-SPE Line 3 site 23
L3023	CH1	2509	452 919B	37.1899	-116.0560	1.3450	NNSS-SPE Line 3 site 23
L3023	CH2	2510	452 919B	37.1899	-116.0560	1.3450	NNSS-SPE Line 3 site 23
L3023	CHZ	2511	452 919B	37.1899	-116.0560	1.3450	NNSS-SPE Line 3 site 23
L3023	CH1	2512	452 919B	37.1899	-116.0560	1.3450	NNSS-SPE Line 3 site 23
L3023	CH2	2513	452 919B	37.1899	-116.0560	1.3450	NNSS-SPE Line 3 site 23
L3023	CHZ	2514	452 919B	37.1899	-116.0560	1.3450	NNSS-SPE Line 3 site 23
L3023	CH1	2515	452 919B	37.1899	-116.0560	1.3450	NNSS-SPE Line 3 site 23

Appendix 7
Selected Metadata for SPE-6 Surface Stations

Station ID	Channel	Channel ID	Description	Estimated Latitude	Estimated Longitude	Elevation km (amsl)	Location
L3023	CH2	2516	452 919B	37.1899	-116.0560	1.3450	NNSS-SPE Line 3 site 23
L3023	CHZ	2517	452 919B	37.1899	-116.0560	1.3450	NNSS-SPE Line 3 site 23
L3023	CH1	2518	452 919B	37.1899	-116.0560	1.3450	NNSS-SPE Line 3 site 23
L3023	CH2	2519	452 919B	37.1899	-116.0560	1.3450	NNSS-SPE Line 3 site 23
L3023	CHZ_04	2520	1023 919B	37.1899	-116.0560	1.3450	NNSS-SPE Line 3 site 23
L3023	CH1_05	2521	1023 919B	37.1899	-116.0560	1.3450	NNSS-SPE Line 3 site 23
L3023	CH2_06	2522	1023 919B	37.1899	-116.0560	1.3450	NNSS-SPE Line 3 site 23
L3023	CHZ	2523	1023 919B	37.1899	-116.0560	1.3450	NNSS-SPE Line 3 site 23
L3023	CH1	2524	1023 919B	37.1899	-116.0560	1.3450	NNSS-SPE Line 3 site 23
L3023	CH2	2525	1023 919B	37.1899	-116.0560	1.3450	NNSS-SPE Line 3 site 23
L3023	CHZ	2526	1023 919B	37.1899	-116.0560	1.3450	NNSS-SPE Line 3 site 23
L3023	CHN	2527	1023 919B	37.1899	-116.0560	1.3450	NNSS-SPE Line 3 site 23
L3023	CHE	2528	1023 919B	37.1899	-116.0560	1.3450	NNSS-SPE Line 3 site 23
L3023	CHZ	2529	1023 919B	37.1899	-116.0560	1.3450	NNSS-SPE Line 3 site 23
L3023	CHN	2530	1023 919B	37.1899	-116.0560	1.3450	NNSS-SPE Line 3 site 23
L3023	CHE	2531	1023 919B	37.1899	-116.0560	1.3450	NNSS-SPE Line 3 site 23
L3023	CHZ	2532	1023 919B	37.1899	-116.0560	1.3450	NNSS-SPE Line 3 site 23
L3023	CHN	2533	1023 919B	37.1899	-116.0560	1.3450	NNSS-SPE Line 3 site 23
L3023	CHE	2534	1023 919B	37.1899	-116.0560	1.3450	NNSS-SPE Line 3 site 23
L3023	CHZ	2535	1023 B3AF	37.1899	-116.0560	1.3450	NNSS-SPE Line 3 site 23
L3023	CHN	2536	1023 B3AF	37.1899	-116.0560	1.3450	NNSS-SPE Line 3 site 23
L3023	CHE	2537	1023 B3AF	37.1899	-116.0560	1.3450	NNSS-SPE Line 3 site 23
L3023	CHZ	2538	1023 9DB0	37.1899	-116.0560	1.3450	NNSS-SPE Line 3 site 23
L3023	CHN	2539	1023 9DB0	37.1899	-116.0560	1.3450	NNSS-SPE Line 3 site 23
L3023	CHE	2540	1023 9DB0	37.1899	-116.0560	1.3450	NNSS-SPE Line 3 site 23
L3023	CHZ	2541	1023 9DB0	37.1899	-116.0560	1.3450	NNSS-SPE Line 3 site 23
L3023	CHN	2542	1023 9DB0	37.1899	-116.0560	1.3450	NNSS-SPE Line 3 site 23
L3023	CHE	2543	1023 9DB0	37.1899	-116.0560	1.3450	NNSS-SPE Line 3 site 23
L3023	CHZ	2544	1023 9DB0	37.1899	-116.0560	1.3450	NNSS-SPE Line 3 site 23
L3023	CHN	2545	1023 9DB0	37.1899	-116.0560	1.3450	NNSS-SPE Line 3 site 23
L3023	CHE	2546	1023 9DB0	37.1899	-116.0560	1.3450	NNSS-SPE Line 3 site 23

Appendix 7
Selected Metadata for SPE-6 Surface Stations

Station ID	Channel	Channel ID	Description	Estimated Latitude	Estimated Longitude	Elevation km (amsl)	Location
L3026	CHZ	2547	503 908F	37.1770	-116.0539	1.3100	NNSS-SPE Line 3 site 26
L3026	CH1	2548	503 908F	37.1770	-116.0539	1.3100	NNSS-SPE Line 3 site 26
L3026	CH2	2549	503 908F	37.1770	-116.0539	1.3100	NNSS-SPE Line 3 site 26
L3026	CHZ	2550	503 908F	37.1770	-116.0539	1.3100	NNSS-SPE Line 3 site 26
L3026	CH1	2551	503 908F	37.1770	-116.0539	1.3100	NNSS-SPE Line 3 site 26
L3026	CH2	2552	503 908F	37.1770	-116.0539	1.3100	NNSS-SPE Line 3 site 26
L3026	CHZ	2553	503 908F	37.1770	-116.0539	1.3100	NNSS-SPE Line 3 site 26
L3026	CH1	2554	503 908F	37.1770	-116.0539	1.3100	NNSS-SPE Line 3 site 26
L3026	CH2	2555	503 908F	37.1770	-116.0539	1.3100	NNSS-SPE Line 3 site 26
L3026	CHZ	2556	1020 908F	37.1770	-116.0539	1.3100	NNSS-SPE Line 3 site 26
L3026	CH1	2557	1020 908F	37.1770	-116.0539	1.3100	NNSS-SPE Line 3 site 26
L3026	CH2	2558	1020 908F	37.1770	-116.0539	1.3100	NNSS-SPE Line 3 site 26
L3026	CHZ	2559	1020 908F	37.1770	-116.0539	1.3100	NNSS-SPE Line 3 site 26
L3026	CHN	2560	1020 908F	37.1770	-116.0539	1.3100	NNSS-SPE Line 3 site 26
L3026	CHE	2561	1020 908F	37.1770	-116.0539	1.3100	NNSS-SPE Line 3 site 26
L3026	CHZ	2562	1020 908F	37.1770	-116.0539	1.3100	NNSS-SPE Line 3 site 26
L3026	CHN	2563	1020 908F	37.1770	-116.0539	1.3100	NNSS-SPE Line 3 site 26
L3026	CHE	2564	1020 908F	37.1770	-116.0539	1.3100	NNSS-SPE Line 3 site 26
L3026	CHZ	2565	1020 B3B9	37.1770	-116.0539	1.3100	NNSS-SPE Line 3 site 26
L3026	CHN	2566	1020 B3B9	37.1770	-116.0539	1.3100	NNSS-SPE Line 3 site 26
L3026	CHE	2567	1020 B3B9	37.1770	-116.0539	1.3100	NNSS-SPE Line 3 site 26
L3026	CHZ	2568	1020 AAF6	37.1770	-116.0539	1.3100	NNSS-SPE Line 3 site 26
L3026	CHN	2569	1020 AAF6	37.1770	-116.0539	1.3100	NNSS-SPE Line 3 site 26
L3026	CHE	2570	1020 AAF6	37.1770	-116.0539	1.3100	NNSS-SPE Line 3 site 26
L3026	CHZ	2571	1020 9DE8	37.1770	-116.0539	1.3100	NNSS-SPE Line 3 site 26
L3026	CHN	2572	1020 9DE8	37.1770	-116.0539	1.3100	NNSS-SPE Line 3 site 26
L3026	CHE	2573	1020 9DE8	37.1770	-116.0539	1.3100	NNSS-SPE Line 3 site 26
L3026	CHZ	2574	1020 9DE8	37.1770	-116.0539	1.3100	NNSS-SPE Line 3 site 26
L3026	CHN	2575	1020 9DE8	37.1770	-116.0539	1.3100	NNSS-SPE Line 3 site 26
L3026	CHE	2576	1020 9DE8	37.1770	-116.0539	1.3100	NNSS-SPE Line 3 site 26
L3026	CHZ	2577	1020 9DE8	37.1770	-116.0539	1.3100	NNSS-SPE Line 3 site 26

Appendix 7
Selected Metadata for SPE-6 Surface Stations

Station ID	Channel	Channel ID	Description	Estimated Latitude	Estimated Longitude	Elevation km (amsl)	Location
L3026	CHN	2578	1020 9DE8	37.1770	-116.0539	1.3100	NNSS-SPE Line 3 site 26
L3026	CHE	2579	1020 9DE8	37.1770	-116.0539	1.3100	NNSS-SPE Line 3 site 26
L3028	CHZ	2580	511 9002	37.1407	-116.0482	1.2850	NNSS-SPE Line 3 site 28
L3028	CH1	2581	511 9002	37.1407	-116.0482	1.2850	NNSS-SPE Line 3 site 28
L3028	CH2	2582	511 9002	37.1407	-116.0482	1.2850	NNSS-SPE Line 3 site 28
L3028	CHZ	2583	511 9002	37.1407	-116.0482	1.2850	NNSS-SPE Line 3 site 28
L3028	CH1	2584	511 9002	37.1407	-116.0482	1.2850	NNSS-SPE Line 3 site 28
L3028	CH2	2585	511 9002	37.1407	-116.0482	1.2850	NNSS-SPE Line 3 site 28
L3028	CHZ	2586	511 9002	37.1407	-116.0482	1.2850	NNSS-SPE Line 3 site 28
L3028	CH1	2587	511 9002	37.1407	-116.0482	1.2850	NNSS-SPE Line 3 site 28
L3028	CH2	2588	511 9002	37.1407	-116.0482	1.2850	NNSS-SPE Line 3 site 28
L3028	CHZ	2589	511 9002	37.1407	-116.0482	1.2850	NNSS-SPE Line 3 site 28
L3028	CH1	2590	511 9002	37.1407	-116.0482	1.2850	NNSS-SPE Line 3 site 28
L3028	CH2	2591	511 9002	37.1407	-116.0482	1.2850	NNSS-SPE Line 3 site 28
L3028	CHZ_04	2592	1032 9002	37.1407	-116.0482	1.2850	NNSS-SPE Line 3 site 28
L3028	CH1_05	2593	1032 9002	37.1407	-116.0482	1.2850	NNSS-SPE Line 3 site 28
L3028	CH2_06	2594	1032 9002	37.1407	-116.0482	1.2850	NNSS-SPE Line 3 site 28
L3028	CHZ	2595	1032 9002	37.1407	-116.0482	1.2850	NNSS-SPE Line 3 site 28
L3028	CH1	2596	1032 9002	37.1407	-116.0482	1.2850	NNSS-SPE Line 3 site 28
L3028	CH2	2597	1032 9002	37.1407	-116.0482	1.2850	NNSS-SPE Line 3 site 28
L3028	CHZ	2598	1032 9002	37.1407	-116.0482	1.2850	NNSS-SPE Line 3 site 28
L3028	CHN	2599	1032 9002	37.1407	-116.0482	1.2850	NNSS-SPE Line 3 site 28
L3028	CHE	2600	1032 9002	37.1407	-116.0482	1.2850	NNSS-SPE Line 3 site 28
L3028	CHZ	2601	1032 9002	37.1407	-116.0482	1.2850	NNSS-SPE Line 3 site 28
L3028	CHN	2602	1032 9002	37.1407	-116.0482	1.2850	NNSS-SPE Line 3 site 28
L3028	CHE	2603	1032 9002	37.1407	-116.0482	1.2850	NNSS-SPE Line 3 site 28
L3028	CHZ	2604	1032 B3B0	37.1407	-116.0482	1.2850	NNSS-SPE Line 3 site 28
L3028	CHN	2605	1032 B3B0	37.1407	-116.0482	1.2850	NNSS-SPE Line 3 site 28
L3028	CHE	2606	1032 B3B0	37.1407	-116.0482	1.2850	NNSS-SPE Line 3 site 28
L3028	CHZ	2607	1032 AB03	37.1407	-116.0482	1.2850	NNSS-SPE Line 3 site 28
L3028	CHN	2608	1032 AB03	37.1407	-116.0482	1.2850	NNSS-SPE Line 3 site 28

Appendix 7
Selected Metadata for SPE-6 Surface Stations

Station ID	Channel	Channel ID	Description	Estimated Latitude	Estimated Longitude	Elevation km (amsl)	Location
L3028	CHE	2609	1032 AB03	37.1407	-116.0482	1.2850	NNSS-SPE Line 3 site 28
L3028	CHZ	2610	1032 9E2B	37.1407	-116.0482	1.2850	NNSS-SPE Line 3 site 28
L3028	CHN	2611	1032 9E2B	37.1407	-116.0482	1.2850	NNSS-SPE Line 3 site 28
L3028	CHE	2612	1032 9E2B	37.1407	-116.0482	1.2850	NNSS-SPE Line 3 site 28
L3028	CHZ	2613	1032 9E2B	37.1407	-116.0482	1.2850	NNSS-SPE Line 3 site 28
L3028	CHN	2614	1032 9E2B	37.1407	-116.0482	1.2850	NNSS-SPE Line 3 site 28
L3028	CHE	2615	1032 9E2B	37.1407	-116.0482	1.2850	NNSS-SPE Line 3 site 28
L3028	CHZ	2616	1032 9E2B	37.1407	-116.0482	1.2850	NNSS-SPE Line 3 site 28
L3028	CHN	2617	1032 9E2B	37.1407	-116.0482	1.2850	NNSS-SPE Line 3 site 28
L3028	CHE	2618	1032 9E2B	37.1407	-116.0482	1.2850	NNSS-SPE Line 3 site 28
L3030	CHZ	2619	462 9D94	37.1049	-116.0426	1.2740	NNSS-SPE Line 3 site 30
L3030	CH1	2620	462 9D94	37.1049	-116.0426	1.2740	NNSS-SPE Line 3 site 30
L3030	CH2	2621	462 9D94	37.1049	-116.0426	1.2740	NNSS-SPE Line 3 site 30
L3030	CHZ	2622	462 9D94	37.1049	-116.0426	1.2740	NNSS-SPE Line 3 site 30
L3030	CH1	2623	462 9D94	37.1049	-116.0426	1.2740	NNSS-SPE Line 3 site 30
L3030	CH2	2624	462 9D94	37.1049	-116.0426	1.2740	NNSS-SPE Line 3 site 30
L3030	CHZ	2625	462 9D94	37.1049	-116.0426	1.2740	NNSS-SPE Line 3 site 30
L3030	CH1	2626	462 9D94	37.1049	-116.0426	1.2740	NNSS-SPE Line 3 site 30
L3030	CH2	2627	462 9D94	37.1049	-116.0426	1.2740	NNSS-SPE Line 3 site 30
L3030	CHZ	2628	1022 9100	37.1049	-116.0426	1.2740	NNSS-SPE Line 3 site 30
L3030	CH1	2629	1022 9100	37.1049	-116.0426	1.2740	NNSS-SPE Line 3 site 30
L3030	CH2	2630	1022 9100	37.1049	-116.0426	1.2740	NNSS-SPE Line 3 site 30
L3030	CHZ	2631	1022 90B1	37.1049	-116.0426	1.2740	NNSS-SPE Line 3 site 30
L3030	CH1	2632	1022 90B1	37.1049	-116.0426	1.2740	NNSS-SPE Line 3 site 30
L3030	CH2	2633	1022 90B1	37.1049	-116.0426	1.2740	NNSS-SPE Line 3 site 30
L3030	CHZ	2634	1022 90B1	37.1049	-116.0426	1.2740	NNSS-SPE Line 3 site 30
L3030	CHN	2635	1022 90B1	37.1049	-116.0426	1.2740	NNSS-SPE Line 3 site 30
L3030	CHE	2636	1022 90B1	37.1049	-116.0426	1.2740	NNSS-SPE Line 3 site 30
L3030	CHZ	2637	1022 B2E0	37.1049	-116.0426	1.2740	NNSS-SPE Line 3 site 30
L3030	CHN	2638	1022 B2E0	37.1049	-116.0426	1.2740	NNSS-SPE Line 3 site 30
L3030	CHE	2639	1022 B2E0	37.1049	-116.0426	1.2740	NNSS-SPE Line 3 site 30

Appendix 7
Selected Metadata for SPE-6 Surface Stations

Station ID	Channel	Channel ID	Description	Estimated Latitude	Estimated Longitude	Elevation km (amsl)	Location
L3030	CHZ	2640	1022 9318	37.1049	-116.0426	1.2740	NNSS-SPE Line 3 site 30
L3030	CHN	2641	1022 9318	37.1049	-116.0426	1.2740	NNSS-SPE Line 3 site 30
L3030	CHE	2642	1022 9318	37.1049	-116.0426	1.2740	NNSS-SPE Line 3 site 30
L3030	CHZ	2643	1022 9318	37.1049	-116.0426	1.2740	NNSS-SPE Line 3 site 30
L3030	CHN	2644	1022 9318	37.1049	-116.0426	1.2740	NNSS-SPE Line 3 site 30
L3030	CHE	2645	1022 9318	37.1049	-116.0426	1.2740	NNSS-SPE Line 3 site 30
L3030	CHZ	2646	1022 9318	37.1049	-116.0426	1.2740	NNSS-SPE Line 3 site 30
L3030	CHN	2647	1022 9318	37.1049	-116.0426	1.2740	NNSS-SPE Line 3 site 30
L3030	CHE	2648	1022 9318	37.1049	-116.0426	1.2740	NNSS-SPE Line 3 site 30
L3030	CHZ_04	2649	3100 9318	37.1049	-116.0426	1.2740	NNSS-SPE Line 3 site 30
L3030	CHN_05	2650	3100 9318	37.1049	-116.0426	1.2740	NNSS-SPE Line 3 site 30
L3030	CHE_06	2651	3100 9318	37.1049	-116.0426	1.2740	NNSS-SPE Line 3 site 30
L3032	CHZ	2652	584 950B	37.0697	-116.0370	1.2360	NNSS-SPE Line 3 site 32
L3032	CH1	2653	584 950B	37.0697	-116.0370	1.2360	NNSS-SPE Line 3 site 32
L3032	CH2	2654	584 950B	37.0697	-116.0370	1.2360	NNSS-SPE Line 3 site 32
L3032	CHZ	2655	584 950B	37.0697	-116.0370	1.2360	NNSS-SPE Line 3 site 32
L3032	CH1	2656	584 950B	37.0697	-116.0370	1.2360	NNSS-SPE Line 3 site 32
L3032	CH2	2657	584 950B	37.0697	-116.0370	1.2360	NNSS-SPE Line 3 site 32
L3032	CHZ	2658	584 950B	37.0697	-116.0370	1.2360	NNSS-SPE Line 3 site 32
L3032	CH1	2659	584 950B	37.0697	-116.0370	1.2360	NNSS-SPE Line 3 site 32
L3032	CH2	2660	584 950B	37.0697	-116.0370	1.2360	NNSS-SPE Line 3 site 32
L3032	CHZ	2661	1025 950B	37.0697	-116.0370	1.2360	NNSS-SPE Line 3 site 32
L3032	CH1	2662	1025 950B	37.0697	-116.0370	1.2360	NNSS-SPE Line 3 site 32
L3032	CH2	2663	1025 950B	37.0697	-116.0370	1.2360	NNSS-SPE Line 3 site 32
L3032	CHZ	2664	1025 950B	37.0697	-116.0370	1.2360	NNSS-SPE Line 3 site 32
L3032	CHN	2665	1025 950B	37.0697	-116.0370	1.2360	NNSS-SPE Line 3 site 32
L3032	CHE	2666	1025 950B	37.0697	-116.0370	1.2360	NNSS-SPE Line 3 site 32
L3032	CHZ	2667	1025 950B	37.0697	-116.0370	1.2360	NNSS-SPE Line 3 site 32
L3032	CHN	2668	1025 950B	37.0697	-116.0370	1.2360	NNSS-SPE Line 3 site 32
L3032	CHE	2669	1025 950B	37.0697	-116.0370	1.2360	NNSS-SPE Line 3 site 32
L3032	CHZ	2670	1025 950B	37.0697	-116.0370	1.2360	NNSS-SPE Line 3 site 32

Appendix 7
Selected Metadata for SPE-6 Surface Stations

Station ID	Channel	Channel ID	Description	Estimated Latitude	Estimated Longitude	Elevation km (amsl)	Location
L3032	CHN	2671	1025 950B	37.0697	-116.0370	1.2360	NNSS-SPE Line 3 site 32
L3032	CHE	2672	1025 950B	37.0697	-116.0370	1.2360	NNSS-SPE Line 3 site 32
L3034	CHZ	2673	504 950F	37.0330	-116.0314	1.2180	NNSS-SPE Line 3 site 34
L3034	CH1	2674	504 950F	37.0330	-116.0314	1.2180	NNSS-SPE Line 3 site 34
L3034	CH2	2675	504 950F	37.0330	-116.0314	1.2180	NNSS-SPE Line 3 site 34
L3034	CHZ	2676	504 950F	37.0330	-116.0314	1.2180	NNSS-SPE Line 3 site 34
L3034	CH1	2677	504 950F	37.0330	-116.0314	1.2180	NNSS-SPE Line 3 site 34
L3034	CH2	2678	504 950F	37.0330	-116.0314	1.2180	NNSS-SPE Line 3 site 34
L3034	CHZ	2679	504 950F	37.0330	-116.0314	1.2180	NNSS-SPE Line 3 site 34
L3034	CH1	2680	504 950F	37.0330	-116.0314	1.2180	NNSS-SPE Line 3 site 34
L3034	CH2	2681	504 950F	37.0330	-116.0314	1.2180	NNSS-SPE Line 3 site 34
L3034	CHZ	2682	1021 950F	37.0330	-116.0314	1.2180	NNSS-SPE Line 3 site 34
L3034	CH1	2683	1021 950F	37.0330	-116.0314	1.2180	NNSS-SPE Line 3 site 34
L3034	CH2	2684	1021 950F	37.0330	-116.0314	1.2180	NNSS-SPE Line 3 site 34
L3034	CHZ	2685	1021 950F	37.0330	-116.0314	1.2180	NNSS-SPE Line 3 site 34
L3034	CHN	2686	1021 950F	37.0330	-116.0314	1.2180	NNSS-SPE Line 3 site 34
L3034	CHE	2687	1021 950F	37.0330	-116.0314	1.2180	NNSS-SPE Line 3 site 34
L3034	CHZ	2688	1021 950F	37.0330	-116.0314	1.2180	NNSS-SPE Line 3 site 34
L3034	CHN	2689	1021 950F	37.0330	-116.0314	1.2180	NNSS-SPE Line 3 site 34
L3034	CHE	2690	1021 950F	37.0330	-116.0314	1.2180	NNSS-SPE Line 3 site 34
L3034	CHZ	2691	1021 950F	37.0330	-116.0314	1.2180	NNSS-SPE Line 3 site 34
L3034	CHN	2692	1021 950F	37.0330	-116.0314	1.2180	NNSS-SPE Line 3 site 34
L3034	CHE	2693	1021 950F	37.0330	-116.0314	1.2180	NNSS-SPE Line 3 site 34
L3036	CHZ	2694	574 9D93	36.9976	-116.0258	1.2040	NNSS-SPE Line 3 site 36
L3036	CH1	2695	574 9D93	36.9976	-116.0258	1.2040	NNSS-SPE Line 3 site 36
L3036	CH2	2696	574 9D93	36.9976	-116.0258	1.2040	NNSS-SPE Line 3 site 36
L3036	CHZ	2697	574 9D93	36.9976	-116.0258	1.2040	NNSS-SPE Line 3 site 36
L3036	CH1	2698	574 9D93	36.9976	-116.0258	1.2040	NNSS-SPE Line 3 site 36
L3036	CH2	2699	574 9D93	36.9976	-116.0258	1.2040	NNSS-SPE Line 3 site 36
L3036	CHZ	2700	574 9D93	36.9976	-116.0258	1.2040	NNSS-SPE Line 3 site 36
L3036	CH1	2701	574 9D93	36.9976	-116.0258	1.2040	NNSS-SPE Line 3 site 36

Appendix 7
Selected Metadata for SPE-6 Surface Stations

Station ID	Channel	Channel ID	Description	Estimated Latitude	Estimated Longitude	Elevation km (amsl)	Location
L3036	CH2	2702	574 9D93	36.9976	-116.0258	1.2040	NNSS-SPE Line 3 site 36
L3036	CHZ	2703	1010 9839	36.9976	-116.0258	1.2040	NNSS-SPE Line 3 site 36
L3036	CH1	2704	1010 9839	36.9976	-116.0258	1.2040	NNSS-SPE Line 3 site 36
L3036	CH2	2705	1010 9839	36.9976	-116.0258	1.2040	NNSS-SPE Line 3 site 36
L3036	CHZ	2706	1010 9E21	36.9976	-116.0258	1.2040	NNSS-SPE Line 3 site 36
L3036	CH1	2707	1010 9E21	36.9976	-116.0258	1.2040	NNSS-SPE Line 3 site 36
L3036	CH2	2708	1010 9E21	36.9976	-116.0258	1.2040	NNSS-SPE Line 3 site 36
L3036	CHZ	2709	1010 9E21	36.9976	-116.0258	1.2040	NNSS-SPE Line 3 site 36
L3036	CHN	2710	1010 9E21	36.9976	-116.0258	1.2040	NNSS-SPE Line 3 site 36
L3036	CHE	2711	1010 9E21	36.9976	-116.0258	1.2040	NNSS-SPE Line 3 site 36
L3036	CHZ	2712	1010 9E21	36.9976	-116.0258	1.2040	NNSS-SPE Line 3 site 36
L3036	CHN	2713	1010 9E21	36.9976	-116.0258	1.2040	NNSS-SPE Line 3 site 36
L3036	CHE	2714	1010 9E21	36.9976	-116.0258	1.2040	NNSS-SPE Line 3 site 36
L3036	CHZ	2715	1010 9E21	36.9976	-116.0258	1.2040	NNSS-SPE Line 3 site 36
L3036	CHN	2716	1010 9E21	36.9976	-116.0258	1.2040	NNSS-SPE Line 3 site 36
L3036	CHE	2717	1010 9E21	36.9976	-116.0258	1.2040	NNSS-SPE Line 3 site 36
L3150	CNZ	2718	168 D1D2	37.2198	-116.0607	1.4874	NNSS-SPE Line 3 150m
L3150	CNR	2719	168 D1D2	37.2198	-116.0607	1.4874	NNSS-SPE Line 3 150m
L3150	CNT	2720	168 D1D2	37.2198	-116.0607	1.4874	NNSS-SPE Line 3 150m
L3150	CNZ	2721	168 D1D2	37.2198	-116.0607	1.4874	NNSS-SPE Line 3 150m
L3150	CNR	2722	168 D1D2	37.2198	-116.0607	1.4874	NNSS-SPE Line 3 150m
L3150	CNT	2723	168 D1D2	37.2198	-116.0607	1.4874	NNSS-SPE Line 3 150m
L360	CNZ	2724	610 D1C4	37.2206	-116.0608	1.4928	NNSS-SPE Line 3 60m
L360	CNR	2725	610 D1C4	37.2206	-116.0608	1.4928	NNSS-SPE Line 3 60m
L360	CNT	2726	610 D1C4	37.2206	-116.0608	1.4928	NNSS-SPE Line 3 60m
L360	CNZ	2727	610 D1C4	37.2206	-116.0608	1.4928	NNSS-SPE Line 3 60m
L360	CNR	2728	610 D1C4	37.2206	-116.0608	1.4928	NNSS-SPE Line 3 60m
L360	CNT	2729	610 D1C4	37.2206	-116.0608	1.4928	NNSS-SPE Line 3 60m
L4001	CLZ	2730	66 9DB0	37.2204	-116.0614	1.5230	NNSS-SPE Line 4 site 01
L4001	CLZ	2731	66 9DB0	37.2204	-116.0614	1.5230	NNSS-SPE Line 4 site 01
L4001	CLZ	2732	66 9DB0	37.2204	-116.0614	1.5230	NNSS-SPE Line 4 site 01

Appendix 7
Selected Metadata for SPE-6 Surface Stations

Station ID	Channel	Channel ID	Description	Estimated Latitude	Estimated Longitude	Elevation km (amsl)	Location
L4001	CLZ	2733	66 9DB0	37.2204	-116.0614	1.5230	NNSS-SPE Line 4 site 01
L4001	CLZ	2734	66 9DB0	37.2204	-116.0614	1.5230	NNSS-SPE Line 4 site 01
L4001	CLZ	2735	66 9DB0	37.2204	-116.0614	1.5230	NNSS-SPE Line 4 site 01
L4001	CLZ	2736	66 B3C8	37.2204	-116.0614	1.5230	NNSS-SPE Line 4 site 01
L4001	CLR	2737	66 B3C8	37.2204	-116.0614	1.5230	NNSS-SPE Line 4 site 01
L4001	CLT	2738	66 B3C8	37.2204	-116.0614	1.5230	NNSS-SPE Line 4 site 01
L4001	CLZ	2739	66 B3C8	37.2204	-116.0614	1.5230	NNSS-SPE Line 4 site 01
L4001	CLR	2740	66 B3C8	37.2204	-116.0614	1.5230	NNSS-SPE Line 4 site 01
L4001	CLT	2741	66 B3C8	37.2204	-116.0614	1.5230	NNSS-SPE Line 4 site 01
L4001	CLZ	2742	66 B3C8	37.2204	-116.0614	1.5230	NNSS-SPE Line 4 site 01
L4001	CLR	2743	66 B3C8	37.2204	-116.0614	1.5230	NNSS-SPE Line 4 site 01
L4001	CLT	2744	66 B3C8	37.2204	-116.0614	1.5230	NNSS-SPE Line 4 site 01
L4001	CLZ	2745	66 B3C8	37.2204	-116.0614	1.5230	NNSS-SPE Line 4 site 01
L4001	CLR	2746	66 B3C8	37.2204	-116.0614	1.5230	NNSS-SPE Line 4 site 01
L4001	CLT	2747	66 B3C8	37.2204	-116.0614	1.5230	NNSS-SPE Line 4 site 01
L4001	CLZ	2748	66 BE6C	37.2204	-116.0614	1.5230	NNSS-SPE Line 4 site 01
L4001	CLR	2749	66 BE6C	37.2204	-116.0614	1.5230	NNSS-SPE Line 4 site 01
L4001	CLT	2750	66 BE6C	37.2204	-116.0614	1.5230	NNSS-SPE Line 4 site 01
L4001	CNZ	2751	607 BE6C	37.2204	-116.0614	1.5230	NNSS-SPE Line 4 site 01
L4001	CNR	2752	607 BE6C	37.2204	-116.0614	1.5230	NNSS-SPE Line 4 site 01
L4001	CNT	2753	607 BE6C	37.2204	-116.0614	1.5230	NNSS-SPE Line 4 site 01
L4001	CLZ	2754	66 BE6C	37.2204	-116.0614	1.5230	NNSS-SPE Line 4 site 01
L4001	CLR	2755	66 BE6C	37.2204	-116.0614	1.5230	NNSS-SPE Line 4 site 01
L4001	CLT	2756	66 BE6C	37.2204	-116.0614	1.5230	NNSS-SPE Line 4 site 01
L4001	CNZ	2757	607 BE6C	37.2204	-116.0614	1.5230	NNSS-SPE Line 4 site 01
L4001	CNR	2758	607 BE6C	37.2204	-116.0614	1.5230	NNSS-SPE Line 4 site 01
L4001	CNT	2759	607 BE6C	37.2204	-116.0614	1.5230	NNSS-SPE Line 4 site 01
L4001	CLZ	2760	66 BE6C	37.2204	-116.0614	1.5230	NNSS-SPE Line 4 site 01
L4001	CLR	2761	66 BE6C	37.2204	-116.0614	1.5230	NNSS-SPE Line 4 site 01
L4001	CLT	2762	66 BE6C	37.2204	-116.0614	1.5230	NNSS-SPE Line 4 site 01
L4001	CLZ	2763	66 BE6C	37.2204	-116.0614	1.5230	NNSS-SPE Line 4 site 01

Appendix 7
Selected Metadata for SPE-6 Surface Stations

Station ID	Channel	Channel ID	Description	Estimated Latitude	Estimated Longitude	Elevation km (amsl)	Location
L4001	CLR	2764	66 BE6C	37.2204	-116.0614	1.5230	NNSS-SPE Line 4 site 01
L4001	CLT	2765	66 BE6C	37.2204	-116.0614	1.5230	NNSS-SPE Line 4 site 01
L4001	CNZ	2766	607 BE6C	37.2204	-116.0614	1.5230	NNSS-SPE Line 4 site 01
L4001	CNR	2767	607 BE6C	37.2204	-116.0614	1.5230	NNSS-SPE Line 4 site 01
L4001	CNT	2768	607 BE6C	37.2204	-116.0614	1.5230	NNSS-SPE Line 4 site 01
L4001	CLZ	2769	39 BE6C	37.2204	-116.0614	1.5230	NNSS-SPE Line 4 site 01
L4001	CLR	2770	39 BE6C	37.2204	-116.0614	1.5230	NNSS-SPE Line 4 site 01
L4001	CLT	2771	39 BE6C	37.2204	-116.0614	1.5230	NNSS-SPE Line 4 site 01
L4001	CNZ	2772	607 BE6C	37.2204	-116.0614	1.5230	NNSS-SPE Line 4 site 01
L4001	CNR	2773	607 BE6C	37.2204	-116.0614	1.5230	NNSS-SPE Line 4 site 01
L4001	CNT	2774	607 BE6C	37.2204	-116.0614	1.5230	NNSS-SPE Line 4 site 01
L4002	CLZ	2775	63 9DB0	37.2195	-116.0619	1.5210	NNSS-SPE Line 4 site 02
L4002	CLZ	2776	63 9DB0	37.2195	-116.0619	1.5210	NNSS-SPE Line 4 site 02
L4002	CLZ	2777	63 9DB0	37.2195	-116.0619	1.5210	NNSS-SPE Line 4 site 02
L4002	CLZ	2778	63 9DB0	37.2195	-116.0619	1.5210	NNSS-SPE Line 4 site 02
L4002	CLZ	2779	63 9DB0	37.2195	-116.0619	1.5210	NNSS-SPE Line 4 site 02
L4002	CLZ	2780	63 9DB0	37.2195	-116.0619	1.5210	NNSS-SPE Line 4 site 02
L4002	CLZ	2781	63 B3C8	37.2195	-116.0619	1.5210	NNSS-SPE Line 4 site 02
L4002	CLR	2782	63 B3C8	37.2195	-116.0619	1.5210	NNSS-SPE Line 4 site 02
L4002	CLT	2783	63 B3C8	37.2195	-116.0619	1.5210	NNSS-SPE Line 4 site 02
L4002	CLZ	2784	63 B3C8	37.2195	-116.0619	1.5210	NNSS-SPE Line 4 site 02
L4002	CLR	2785	63 B3C8	37.2195	-116.0619	1.5210	NNSS-SPE Line 4 site 02
L4002	CLT	2786	63 B3C8	37.2195	-116.0619	1.5210	NNSS-SPE Line 4 site 02
L4002	CLZ	2787	11 B3C8	37.2195	-116.0619	1.5210	NNSS-SPE Line 4 site 02
L4002	CLR	2788	11 B3C8	37.2195	-116.0619	1.5210	NNSS-SPE Line 4 site 02
L4002	CLT	2789	11 B3C8	37.2195	-116.0619	1.5210	NNSS-SPE Line 4 site 02
L4002	CLZ	2790	225358-49 B3C8	37.2195	-116.0619	1.5210	NNSS-SPE Line 4 site 02
L4002	CLR	2791	225358-49 B3C8	37.2195	-116.0619	1.5210	NNSS-SPE Line 4 site 02
L4002	CLT	2792	225358-49 B3C8	37.2195	-116.0619	1.5210	NNSS-SPE Line 4 site 02
L4002	CNZ	2793	171 B3C8	37.2195	-116.0619	1.5210	NNSS-SPE Line 4 site 02
L4002	CNR	2794	171 B3C8	37.2195	-116.0619	1.5210	NNSS-SPE Line 4 site 02

Appendix 7
Selected Metadata for SPE-6 Surface Stations

Station ID	Channel	Channel ID	Description	Estimated Latitude	Estimated Longitude	Elevation km (amsl)	Location
L4002	CNT	2795	171 B3C8	37.2195	-116.0619	1.5210	NNSS-SPE Line 4 site 02
L4002	CLZ	2796	225358-49 B3C8	37.2195	-116.0619	1.5210	NNSS-SPE Line 4 site 02
L4002	CLR	2797	225358-49 B3C8	37.2195	-116.0619	1.5210	NNSS-SPE Line 4 site 02
L4002	CLT	2798	225358-49 B3C8	37.2195	-116.0619	1.5210	NNSS-SPE Line 4 site 02
L4002	CLZ	2799	214830-06 B3C8	37.2195	-116.0619	1.5210	NNSS-SPE Line 4 site 02
L4002	CLR	2800	214830-06 B3C8	37.2195	-116.0619	1.5210	NNSS-SPE Line 4 site 02
L4002	CLT	2801	214830-06 B3C8	37.2195	-116.0619	1.5210	NNSS-SPE Line 4 site 02
L4002	CNZ	2802	171 B3C8	37.2195	-116.0619	1.5210	NNSS-SPE Line 4 site 02
L4002	CNR	2803	171 B3C8	37.2195	-116.0619	1.5210	NNSS-SPE Line 4 site 02
L4002	CNT	2804	171 B3C8	37.2195	-116.0619	1.5210	NNSS-SPE Line 4 site 02
L4002	CLZ	2805	214830-06 B3C8	37.2195	-116.0619	1.5210	NNSS-SPE Line 4 site 02
L4002	CLR	2806	214830-06 B3C8	37.2195	-116.0619	1.5210	NNSS-SPE Line 4 site 02
L4002	CLT	2807	214830-06 B3C8	37.2195	-116.0619	1.5210	NNSS-SPE Line 4 site 02
L4002	CLZ	2808	214830-06 B3C8	37.2195	-116.0619	1.5210	NNSS-SPE Line 4 site 02
L4002	CLR	2809	214830-06 B3C8	37.2195	-116.0619	1.5210	NNSS-SPE Line 4 site 02
L4002	CLT	2810	214830-06 B3C8	37.2195	-116.0619	1.5210	NNSS-SPE Line 4 site 02
L4002	CNZ	2811	171 B3C8	37.2195	-116.0619	1.5210	NNSS-SPE Line 4 site 02
L4002	CNR	2812	171 B3C8	37.2195	-116.0619	1.5210	NNSS-SPE Line 4 site 02
L4002	CNT	2813	171 B3C8	37.2195	-116.0619	1.5210	NNSS-SPE Line 4 site 02
L4002	CLZ	2814	214830-06 B3C8	37.2195	-116.0619	1.5210	NNSS-SPE Line 4 site 02
L4002	CLR	2815	214830-06 B3C8	37.2195	-116.0619	1.5210	NNSS-SPE Line 4 site 02
L4002	CLT	2816	214830-06 B3C8	37.2195	-116.0619	1.5210	NNSS-SPE Line 4 site 02
L4002	CNZ	2817	171 B3C8	37.2195	-116.0619	1.5210	NNSS-SPE Line 4 site 02
L4002	CNR	2818	171 B3C8	37.2195	-116.0619	1.5210	NNSS-SPE Line 4 site 02
L4002	CNT	2819	171 B3C8	37.2195	-116.0619	1.5210	NNSS-SPE Line 4 site 02
L4002	CLZ	2820	2 B3C8	37.2195	-116.0619	1.5210	NNSS-SPE Line 4 site 02
L4002	CLR	2821	2 B3C8	37.2195	-116.0619	1.5210	NNSS-SPE Line 4 site 02
L4002	CLT	2822	2 B3C8	37.2195	-116.0619	1.5210	NNSS-SPE Line 4 site 02
L4003	CLZ	2823	98 9DB0	37.2187	-116.0624	1.5320	NNSS-SPE Line 4 site 03
L4003	CLZ	2824	98 9DB0	37.2187	-116.0624	1.5320	NNSS-SPE Line 4 site 03
L4003	CLZ	2825	98 9DB0	37.2187	-116.0624	1.5320	NNSS-SPE Line 4 site 03

Appendix 7
Selected Metadata for SPE-6 Surface Stations

Station ID	Channel	Channel ID	Description	Estimated Latitude	Estimated Longitude	Elevation km (amsl)	Location
L4003	CLZ	2826	98 9DB0	37.2187	-116.0624	1.5320	NNSS-SPE Line 4 site 03
L4003	CLZ	2827	98 9DB0	37.2187	-116.0624	1.5320	NNSS-SPE Line 4 site 03
L4003	CLZ	2828	98 9DB0	37.2187	-116.0624	1.5320	NNSS-SPE Line 4 site 03
L4003	CLZ	2829	98 9DB0	37.2187	-116.0624	1.5320	NNSS-SPE Line 4 site 03
L4003	CLR	2830	98 9DB0	37.2187	-116.0624	1.5320	NNSS-SPE Line 4 site 03
L4003	CLT	2831	98 9DB0	37.2187	-116.0624	1.5320	NNSS-SPE Line 4 site 03
L4003	CLZ	2832	98 9DB0	37.2187	-116.0624	1.5320	NNSS-SPE Line 4 site 03
L4003	CLR	2833	98 9DB0	37.2187	-116.0624	1.5320	NNSS-SPE Line 4 site 03
L4003	CLT	2834	98 9DB0	37.2187	-116.0624	1.5320	NNSS-SPE Line 4 site 03
L4003	CLZ	2835	98 9498	37.2187	-116.0624	1.5320	NNSS-SPE Line 4 site 03
L4003	CLR	2836	98 9498	37.2187	-116.0624	1.5320	NNSS-SPE Line 4 site 03
L4003	CLT	2837	98 9498	37.2187	-116.0624	1.5320	NNSS-SPE Line 4 site 03
L4003	CLZ	2838	98 9498	37.2187	-116.0624	1.5320	NNSS-SPE Line 4 site 03
L4003	CLR	2839	98 9498	37.2187	-116.0624	1.5320	NNSS-SPE Line 4 site 03
L4003	CLT	2840	98 9498	37.2187	-116.0624	1.5320	NNSS-SPE Line 4 site 03
L4003	CLZ	2841	84 D147	37.2187	-116.0624	1.5320	NNSS-SPE Line 4 site 03
L4003	CLR	2842	84 D147	37.2187	-116.0624	1.5320	NNSS-SPE Line 4 site 03
L4003	CLT	2843	84 D147	37.2187	-116.0624	1.5320	NNSS-SPE Line 4 site 03
L4003	CNZ	2844	169 D147	37.2187	-116.0624	1.5320	NNSS-SPE Line 4 site 03
L4003	CNR	2845	169 D147	37.2187	-116.0624	1.5320	NNSS-SPE Line 4 site 03
L4003	CNT	2846	169 D147	37.2187	-116.0624	1.5320	NNSS-SPE Line 4 site 03
L4003	CLZ	2847	17 D147	37.2187	-116.0624	1.5320	NNSS-SPE Line 4 site 03
L4003	CLR	2848	17 D147	37.2187	-116.0624	1.5320	NNSS-SPE Line 4 site 03
L4003	CLT	2849	17 D147	37.2187	-116.0624	1.5320	NNSS-SPE Line 4 site 03
L4003	CLZ	2850	214830-03 D147	37.2187	-116.0624	1.5320	NNSS-SPE Line 4 site 03
L4003	CLR	2851	214830-03 D147	37.2187	-116.0624	1.5320	NNSS-SPE Line 4 site 03
L4003	CLT	2852	214830-03 D147	37.2187	-116.0624	1.5320	NNSS-SPE Line 4 site 03
L4003	CLZ	2853	214830-03 D147	37.2187	-116.0624	1.5320	NNSS-SPE Line 4 site 03
L4003	CLR	2854	214830-03 D147	37.2187	-116.0624	1.5320	NNSS-SPE Line 4 site 03
L4003	CLT	2855	214830-03 D147	37.2187	-116.0624	1.5320	NNSS-SPE Line 4 site 03
L4003	CLZ	2856	214830-03 D147	37.2187	-116.0624	1.5320	NNSS-SPE Line 4 site 03

Appendix 7
Selected Metadata for SPE-6 Surface Stations

Station ID	Channel	Channel ID	Description	Estimated Latitude	Estimated Longitude	Elevation km (amsl)	Location
L4003	CLR	2857	214830-03 D147	37.2187	-116.0624	1.5320	NNSS-SPE Line 4 site 03
L4003	CLT	2858	214830-03 D147	37.2187	-116.0624	1.5320	NNSS-SPE Line 4 site 03
L4003	CNZ	2859	169 D147	37.2187	-116.0624	1.5320	NNSS-SPE Line 4 site 03
L4003	CNR	2860	169 D147	37.2187	-116.0624	1.5320	NNSS-SPE Line 4 site 03
L4003	CNT	2861	169 D147	37.2187	-116.0624	1.5320	NNSS-SPE Line 4 site 03
L4003	CLZ	2862	105 D147	37.2187	-116.0624	1.5320	NNSS-SPE Line 4 site 03
L4003	CLR	2863	105 D147	37.2187	-116.0624	1.5320	NNSS-SPE Line 4 site 03
L4003	CLT	2864	105 D147	37.2187	-116.0624	1.5320	NNSS-SPE Line 4 site 03
L4003	CNZ	2865	169 D147	37.2187	-116.0624	1.5320	NNSS-SPE Line 4 site 03
L4003	CNR	2866	169 D147	37.2187	-116.0624	1.5320	NNSS-SPE Line 4 site 03
L4003	CNT	2867	169 D147	37.2187	-116.0624	1.5320	NNSS-SPE Line 4 site 03
L4004	CLZ	2868	96 9DB0	37.2179	-116.0629	1.5230	NNSS-SPE Line 4 site 04
L4004	CLR	2869	96 9DB0	37.2179	-116.0629	1.5230	NNSS-SPE Line 4 site 04
L4004	CLT	2870	96 9DB0	37.2179	-116.0629	1.5230	NNSS-SPE Line 4 site 04
L4004	CLZ	2871	96 9DB0	37.2179	-116.0629	1.5230	NNSS-SPE Line 4 site 04
L4004	CLR	2872	96 9DB0	37.2179	-116.0629	1.5230	NNSS-SPE Line 4 site 04
L4004	CLT	2873	96 9DB0	37.2179	-116.0629	1.5230	NNSS-SPE Line 4 site 04
L4004	CLZ	2874	96 9DB0	37.2179	-116.0629	1.5230	NNSS-SPE Line 4 site 04
L4004	CLR	2875	96 9DB0	37.2179	-116.0629	1.5230	NNSS-SPE Line 4 site 04
L4004	CLT	2876	96 9DB0	37.2179	-116.0629	1.5230	NNSS-SPE Line 4 site 04
L4004	CLZ	2877	96 9DB0	37.2179	-116.0629	1.5230	NNSS-SPE Line 4 site 04
L4004	CLR	2878	96 9DB0	37.2179	-116.0629	1.5230	NNSS-SPE Line 4 site 04
L4004	CLT	2879	96 9DB0	37.2179	-116.0629	1.5230	NNSS-SPE Line 4 site 04
L4004	CLZ	2880	96 9DB0	37.2179	-116.0629	1.5230	NNSS-SPE Line 4 site 04
L4004	CLR	2881	96 9DB0	37.2179	-116.0629	1.5230	NNSS-SPE Line 4 site 04
L4004	CLT	2882	96 9DB0	37.2179	-116.0629	1.5230	NNSS-SPE Line 4 site 04
L4004	CLZ	2883	96 9DB0	37.2179	-116.0629	1.5230	NNSS-SPE Line 4 site 04
L4004	CLR	2884	96 9DB0	37.2179	-116.0629	1.5230	NNSS-SPE Line 4 site 04
L4004	CLT	2885	96 9DB0	37.2179	-116.0629	1.5230	NNSS-SPE Line 4 site 04
L4004	CLZ	2886	96 9DB0	37.2179	-116.0629	1.5230	NNSS-SPE Line 4 site 04
L4004	CLR	2887	96 9DB0	37.2179	-116.0629	1.5230	NNSS-SPE Line 4 site 04

Appendix 7
Selected Metadata for SPE-6 Surface Stations

Station ID	Channel	Channel ID	Description	Estimated Latitude	Estimated Longitude	Elevation km (amsl)	Location
L4004	CLT	2888	96 9DB0	37.2179	-116.0629	1.5230	NNSS-SPE Line 4 site 04
L4004	CLZ	2889	96 9DB0	37.2179	-116.0629	1.5230	NNSS-SPE Line 4 site 04
L4004	CLR	2890	96 9DB0	37.2179	-116.0629	1.5230	NNSS-SPE Line 4 site 04
L4004	CLT	2891	96 9DB0	37.2179	-116.0629	1.5230	NNSS-SPE Line 4 site 04
L4004	CLZ	2892	94 9498	37.2179	-116.0629	1.5230	NNSS-SPE Line 4 site 04
L4004	CLR	2893	94 9498	37.2179	-116.0629	1.5230	NNSS-SPE Line 4 site 04
L4004	CLT	2894	94 9498	37.2179	-116.0629	1.5230	NNSS-SPE Line 4 site 04
L4004	CLZ	2895	225358-19 9498	37.2179	-116.0629	1.5230	NNSS-SPE Line 4 site 04
L4004	CLR	2896	225358-19 9498	37.2179	-116.0629	1.5230	NNSS-SPE Line 4 site 04
L4004	CLT	2897	225358-19 9498	37.2179	-116.0629	1.5230	NNSS-SPE Line 4 site 04
L4004	CLZ	2898	225358-19 9498	37.2179	-116.0629	1.5230	NNSS-SPE Line 4 site 04
L4004	CLR	2899	225358-19 9498	37.2179	-116.0629	1.5230	NNSS-SPE Line 4 site 04
L4004	CLT	2900	225358-19 9498	37.2179	-116.0629	1.5230	NNSS-SPE Line 4 site 04
L4004	CLZ	2901	225358-19 9498	37.2179	-116.0629	1.5230	NNSS-SPE Line 4 site 04
L4004	CLR	2902	225358-19 9498	37.2179	-116.0629	1.5230	NNSS-SPE Line 4 site 04
L4004	CLT	2903	225358-19 9498	37.2179	-116.0629	1.5230	NNSS-SPE Line 4 site 04
L4004	CLZ	2904	225358-19 9498	37.2179	-116.0629	1.5230	NNSS-SPE Line 4 site 04
L4004	CLR	2905	225358-19 9498	37.2179	-116.0629	1.5230	NNSS-SPE Line 4 site 04
L4004	CLT	2906	225358-19 9498	37.2179	-116.0629	1.5230	NNSS-SPE Line 4 site 04
L4004	CLZ	2907	102 9498	37.2179	-116.0629	1.5230	NNSS-SPE Line 4 site 04
L4004	CLR	2908	102 9498	37.2179	-116.0629	1.5230	NNSS-SPE Line 4 site 04
L4004	CLT	2909	102 9498	37.2179	-116.0629	1.5230	NNSS-SPE Line 4 site 04
L4005	CLZ	2910	62 949D	37.2171	-116.0634	1.5020	NNSS-SPE Line 4 site 05
L4005	CLZ	2911	62 949D	37.2171	-116.0634	1.5020	NNSS-SPE Line 4 site 05
L4005	CLZ	2912	62 949D	37.2171	-116.0634	1.5020	NNSS-SPE Line 4 site 05
L4005	CLZ	2913	62 949D	37.2171	-116.0634	1.5020	NNSS-SPE Line 4 site 05
L4005	CLZ	2914	62 949D	37.2171	-116.0634	1.5020	NNSS-SPE Line 4 site 05
L4005	CLZ	2915	62 949D	37.2171	-116.0634	1.5020	NNSS-SPE Line 4 site 05
L4005	CLZ	2916	62 B3B4	37.2171	-116.0634	1.5020	NNSS-SPE Line 4 site 05
L4005	CLR	2917	62 B3B4	37.2171	-116.0634	1.5020	NNSS-SPE Line 4 site 05
L4005	CLT	2918	62 B3B4	37.2171	-116.0634	1.5020	NNSS-SPE Line 4 site 05

Appendix 7
Selected Metadata for SPE-6 Surface Stations

Station ID	Channel	Channel ID	Description	Estimated Latitude	Estimated Longitude	Elevation km (amsl)	Location
L4005	CLZ	2919	62 B3B4	37.2171	-116.0634	1.5020	NNSS-SPE Line 4 site 05
L4005	CLR	2920	62 B3B4	37.2171	-116.0634	1.5020	NNSS-SPE Line 4 site 05
L4005	CLT	2921	62 B3B4	37.2171	-116.0634	1.5020	NNSS-SPE Line 4 site 05
L4005	CLZ	2922	62 B3B4	37.2171	-116.0634	1.5020	NNSS-SPE Line 4 site 05
L4005	CLR	2923	62 B3B4	37.2171	-116.0634	1.5020	NNSS-SPE Line 4 site 05
L4005	CLT	2924	62 B3B4	37.2171	-116.0634	1.5020	NNSS-SPE Line 4 site 05
L4005	CLZ	2925	62 B3B4	37.2171	-116.0634	1.5020	NNSS-SPE Line 4 site 05
L4005	CLR	2926	62 B3B4	37.2171	-116.0634	1.5020	NNSS-SPE Line 4 site 05
L4005	CLT	2927	62 B3B4	37.2171	-116.0634	1.5020	NNSS-SPE Line 4 site 05
L4005	CLZ	2928	62 B3B4	37.2171	-116.0634	1.5020	NNSS-SPE Line 4 site 05
L4005	CLR	2929	62 B3B4	37.2171	-116.0634	1.5020	NNSS-SPE Line 4 site 05
L4005	CLT	2930	62 B3B4	37.2171	-116.0634	1.5020	NNSS-SPE Line 4 site 05
L4005	CLZ	2931	62 B3B4	37.2171	-116.0634	1.5020	NNSS-SPE Line 4 site 05
L4005	CLR	2932	62 B3B4	37.2171	-116.0634	1.5020	NNSS-SPE Line 4 site 05
L4005	CLT	2933	62 B3B4	37.2171	-116.0634	1.5020	NNSS-SPE Line 4 site 05
L4005	CLZ	2934	62 B3B4	37.2171	-116.0634	1.5020	NNSS-SPE Line 4 site 05
L4005	CLR	2935	62 B3B4	37.2171	-116.0634	1.5020	NNSS-SPE Line 4 site 05
L4005	CLT	2936	62 B3B4	37.2171	-116.0634	1.5020	NNSS-SPE Line 4 site 05
L4005	CLZ	2937	99 B3B4	37.2171	-116.0634	1.5020	NNSS-SPE Line 4 site 05
L4005	CLR	2938	99 B3B4	37.2171	-116.0634	1.5020	NNSS-SPE Line 4 site 05
L4005	CLT	2939	99 B3B4	37.2171	-116.0634	1.5020	NNSS-SPE Line 4 site 05
L4006	CLZ	2940	30 949D	37.2163	-116.0639	1.4990	NNSS-SPE Line 4 site 06
L4006	CLZ	2941	30 949D	37.2163	-116.0639	1.4990	NNSS-SPE Line 4 site 06
L4006	CLZ	2942	30 949D	37.2163	-116.0639	1.4990	NNSS-SPE Line 4 site 06
L4006	CLZ	2943	30 949D	37.2163	-116.0639	1.4990	NNSS-SPE Line 4 site 06
L4006	CLZ	2944	30 949D	37.2163	-116.0639	1.4990	NNSS-SPE Line 4 site 06
L4006	CLZ	2945	30 949D	37.2163	-116.0639	1.4990	NNSS-SPE Line 4 site 06
L4006	CLZ	2946	30 B3B4	37.2163	-116.0639	1.4990	NNSS-SPE Line 4 site 06
L4006	CLR	2947	30 B3B4	37.2163	-116.0639	1.4990	NNSS-SPE Line 4 site 06
L4006	CLT	2948	30 B3B4	37.2163	-116.0639	1.4990	NNSS-SPE Line 4 site 06
L4006	CLZ	2949	30 B3B4	37.2163	-116.0639	1.4990	NNSS-SPE Line 4 site 06

Appendix 7
Selected Metadata for SPE-6 Surface Stations

Station ID	Channel	Channel ID	Description	Estimated Latitude	Estimated Longitude	Elevation km (amsl)	Location
L4006	CLR	2950	30 B3B4	37.2163	-116.0639	1.4990	NNSS-SPE Line 4 site 06
L4006	CLT	2951	30 B3B4	37.2163	-116.0639	1.4990	NNSS-SPE Line 4 site 06
L4006	CLZ	2952	62 B3B4	37.2163	-116.0639	1.4990	NNSS-SPE Line 4 site 06
L4006	CLR	2953	62 B3B4	37.2163	-116.0639	1.4990	NNSS-SPE Line 4 site 06
L4006	CLT	2954	62 B3B4	37.2163	-116.0639	1.4990	NNSS-SPE Line 4 site 06
L4006	CLZ	2955	62 B3B4	37.2163	-116.0639	1.4990	NNSS-SPE Line 4 site 06
L4006	CLR	2956	62 B3B4	37.2163	-116.0639	1.4990	NNSS-SPE Line 4 site 06
L4006	CLT	2957	62 B3B4	37.2163	-116.0639	1.4990	NNSS-SPE Line 4 site 06
L4006	CLZ	2958	180063-02 B3B4	37.2163	-116.0639	1.4990	NNSS-SPE Line 4 site 06
L4006	CLR	2959	180063-02 B3B4	37.2163	-116.0639	1.4990	NNSS-SPE Line 4 site 06
L4006	CLT	2960	180063-02 B3B4	37.2163	-116.0639	1.4990	NNSS-SPE Line 4 site 06
L4006	CLZ	2961	180063-02 B3B4	37.2163	-116.0639	1.4990	NNSS-SPE Line 4 site 06
L4006	CLR	2962	180063-02 B3B4	37.2163	-116.0639	1.4990	NNSS-SPE Line 4 site 06
L4006	CLT	2963	180063-02 B3B4	37.2163	-116.0639	1.4990	NNSS-SPE Line 4 site 06
L4006	CLZ	2964	180063-02 B3B4	37.2163	-116.0639	1.4990	NNSS-SPE Line 4 site 06
L4006	CLR	2965	180063-02 B3B4	37.2163	-116.0639	1.4990	NNSS-SPE Line 4 site 06
L4006	CLT	2966	180063-02 B3B4	37.2163	-116.0639	1.4990	NNSS-SPE Line 4 site 06
L4006	CLZ	2967	41 B3B4	37.2163	-116.0639	1.4990	NNSS-SPE Line 4 site 06
L4006	CLR	2968	41 B3B4	37.2163	-116.0639	1.4990	NNSS-SPE Line 4 site 06
L4006	CLT	2969	41 B3B4	37.2163	-116.0639	1.4990	NNSS-SPE Line 4 site 06
L4007	CLZ	2970	28 949D	37.2155	-116.0643	1.5130	NNSS-SPE Line 4 site 07
L4007	CLZ	2971	28 949D	37.2155	-116.0643	1.5130	NNSS-SPE Line 4 site 07
L4007	CLZ	2972	28 949D	37.2155	-116.0643	1.5130	NNSS-SPE Line 4 site 07
L4007	CLZ	2973	28 949D	37.2155	-116.0643	1.5130	NNSS-SPE Line 4 site 07
L4007	CLZ	2974	28 949D	37.2155	-116.0643	1.5130	NNSS-SPE Line 4 site 07
L4007	CLZ	2975	28 949D	37.2155	-116.0643	1.5130	NNSS-SPE Line 4 site 07
L4007	CLZ	2976	91 949D	37.2155	-116.0643	1.5130	NNSS-SPE Line 4 site 07
L4007	CLR	2977	91 949D	37.2155	-116.0643	1.5130	NNSS-SPE Line 4 site 07
L4007	CLT	2978	91 949D	37.2155	-116.0643	1.5130	NNSS-SPE Line 4 site 07
L4007	CLZ	2979	91 949D	37.2155	-116.0643	1.5130	NNSS-SPE Line 4 site 07
L4007	CLR	2980	91 949D	37.2155	-116.0643	1.5130	NNSS-SPE Line 4 site 07

Appendix 7
Selected Metadata for SPE-6 Surface Stations

Station ID	Channel	Channel ID	Description	Estimated Latitude	Estimated Longitude	Elevation km (amsl)	Location
L4007	CLT	2981	91 949D	37.2155	-116.0643	1.5130	NNSS-SPE Line 4 site 07
L4007	CLZ	2982	91 949D	37.2155	-116.0643	1.5130	NNSS-SPE Line 4 site 07
L4007	CLR	2983	91 949D	37.2155	-116.0643	1.5130	NNSS-SPE Line 4 site 07
L4007	CLT	2984	91 949D	37.2155	-116.0643	1.5130	NNSS-SPE Line 4 site 07
L4007	CLZ	2985	214830-14 949D	37.2155	-116.0643	1.5130	NNSS-SPE Line 4 site 07
L4007	CLR	2986	214830-14 949D	37.2155	-116.0643	1.5130	NNSS-SPE Line 4 site 07
L4007	CLT	2987	214830-14 949D	37.2155	-116.0643	1.5130	NNSS-SPE Line 4 site 07
L4007	CLZ	2988	225358-08 D19B	37.2155	-116.0643	1.5130	NNSS-SPE Line 4 site 07
L4007	CLR	2989	225358-08 D19B	37.2155	-116.0643	1.5130	NNSS-SPE Line 4 site 07
L4007	CLT	2990	225358-08 D19B	37.2155	-116.0643	1.5130	NNSS-SPE Line 4 site 07
L4007	CLZ	2991	225358-08 D19B	37.2155	-116.0643	1.5130	NNSS-SPE Line 4 site 07
L4007	CLR	2992	225358-08 D19B	37.2155	-116.0643	1.5130	NNSS-SPE Line 4 site 07
L4007	CLT	2993	225358-08 D19B	37.2155	-116.0643	1.5130	NNSS-SPE Line 4 site 07
L4007	CLZ	2994	225358-08 D19B	37.2155	-116.0643	1.5130	NNSS-SPE Line 4 site 07
L4007	CLR	2995	225358-08 D19B	37.2155	-116.0643	1.5130	NNSS-SPE Line 4 site 07
L4007	CLT	2996	225358-08 D19B	37.2155	-116.0643	1.5130	NNSS-SPE Line 4 site 07
L4007	CLZ	2997	225358-08 D19B	37.2155	-116.0643	1.5130	NNSS-SPE Line 4 site 07
L4007	CLR	2998	225358-08 D19B	37.2155	-116.0643	1.5130	NNSS-SPE Line 4 site 07
L4007	CLT	2999	225358-08 D19B	37.2155	-116.0643	1.5130	NNSS-SPE Line 4 site 07
L4007	CLZ	3000	20 D164	37.2155	-116.0643	1.5130	NNSS-SPE Line 4 site 07
L4007	CLR	3001	20 D164	37.2155	-116.0643	1.5130	NNSS-SPE Line 4 site 07
L4007	CLT	3002	20 D164	37.2155	-116.0643	1.5130	NNSS-SPE Line 4 site 07
L4008	CLZ	3003	103 949D	37.2147	-116.0648	1.5050	NNSS-SPE Line 4 site 08
L4008	CLR	3004	103 949D	37.2147	-116.0648	1.5050	NNSS-SPE Line 4 site 08
L4008	CLT	3005	103 949D	37.2147	-116.0648	1.5050	NNSS-SPE Line 4 site 08
L4008	CLZ	3006	103 949D	37.2147	-116.0648	1.5050	NNSS-SPE Line 4 site 08
L4008	CLR	3007	103 949D	37.2147	-116.0648	1.5050	NNSS-SPE Line 4 site 08
L4008	CLT	3008	103 949D	37.2147	-116.0648	1.5050	NNSS-SPE Line 4 site 08
L4008	CLZ	3009	103 949D	37.2147	-116.0648	1.5050	NNSS-SPE Line 4 site 08
L4008	CLR	3010	103 949D	37.2147	-116.0648	1.5050	NNSS-SPE Line 4 site 08
L4008	CLT	3011	103 949D	37.2147	-116.0648	1.5050	NNSS-SPE Line 4 site 08

Appendix 7
Selected Metadata for SPE-6 Surface Stations

Station ID	Channel	Channel ID	Description	Estimated Latitude	Estimated Longitude	Elevation km (amsl)	Location
L4008	CLZ	3012	103 949D	37.2147	-116.0648	1.5050	NNSS-SPE Line 4 site 08
L4008	CLR	3013	103 949D	37.2147	-116.0648	1.5050	NNSS-SPE Line 4 site 08
L4008	CLT	3014	103 949D	37.2147	-116.0648	1.5050	NNSS-SPE Line 4 site 08
L4008	CLZ	3015	103 949D	37.2147	-116.0648	1.5050	NNSS-SPE Line 4 site 08
L4008	CLR	3016	103 949D	37.2147	-116.0648	1.5050	NNSS-SPE Line 4 site 08
L4008	CLT	3017	103 949D	37.2147	-116.0648	1.5050	NNSS-SPE Line 4 site 08
L4008	CLZ	3018	103 949D	37.2147	-116.0648	1.5050	NNSS-SPE Line 4 site 08
L4008	CLR	3019	103 949D	37.2147	-116.0648	1.5050	NNSS-SPE Line 4 site 08
L4008	CLT	3020	103 949D	37.2147	-116.0648	1.5050	NNSS-SPE Line 4 site 08
L4008	CLZ	3021	103 949D	37.2147	-116.0648	1.5050	NNSS-SPE Line 4 site 08
L4008	CLR	3022	103 949D	37.2147	-116.0648	1.5050	NNSS-SPE Line 4 site 08
L4008	CLT	3023	103 949D	37.2147	-116.0648	1.5050	NNSS-SPE Line 4 site 08
L4008	CLZ	3024	103 949D	37.2147	-116.0648	1.5050	NNSS-SPE Line 4 site 08
L4008	CLR	3025	103 949D	37.2147	-116.0648	1.5050	NNSS-SPE Line 4 site 08
L4008	CLT	3026	103 949D	37.2147	-116.0648	1.5050	NNSS-SPE Line 4 site 08
L4008	CLZ	3027	103 949D	37.2147	-116.0648	1.5050	NNSS-SPE Line 4 site 08
L4008	CLR	3028	103 949D	37.2147	-116.0648	1.5050	NNSS-SPE Line 4 site 08
L4008	CLT	3029	103 949D	37.2147	-116.0648	1.5050	NNSS-SPE Line 4 site 08
L4008	CLZ	3030	48 949D	37.2147	-116.0648	1.5050	NNSS-SPE Line 4 site 08
L4008	CLR	3031	48 949D	37.2147	-116.0648	1.5050	NNSS-SPE Line 4 site 08
L4008	CLT	3032	48 949D	37.2147	-116.0648	1.5050	NNSS-SPE Line 4 site 08
L4008	CLZ	3033	48 949D	37.2147	-116.0648	1.5050	NNSS-SPE Line 4 site 08
L4008	CLR	3034	48 949D	37.2147	-116.0648	1.5050	NNSS-SPE Line 4 site 08
L4008	CLT	3035	48 949D	37.2147	-116.0648	1.5050	NNSS-SPE Line 4 site 08
L4008	CLZ	3036	48 D19B	37.2147	-116.0648	1.5050	NNSS-SPE Line 4 site 08
L4008	CLR	3037	48 D19B	37.2147	-116.0648	1.5050	NNSS-SPE Line 4 site 08
L4008	CLT	3038	48 D19B	37.2147	-116.0648	1.5050	NNSS-SPE Line 4 site 08
L4008	CLZ	3039	48 D19B	37.2147	-116.0648	1.5050	NNSS-SPE Line 4 site 08
L4008	CLR	3040	48 D19B	37.2147	-116.0648	1.5050	NNSS-SPE Line 4 site 08
L4008	CLT	3041	48 D19B	37.2147	-116.0648	1.5050	NNSS-SPE Line 4 site 08
L4008	CLZ	3042	48 D19B	37.2147	-116.0648	1.5050	NNSS-SPE Line 4 site 08

Appendix 7
Selected Metadata for SPE-6 Surface Stations

Station ID	Channel	Channel ID	Description	Estimated Latitude	Estimated Longitude	Elevation km (amsl)	Location
L4008	CLR	3043	48 D19B	37.2147	-116.0648	1.5050	NNSS-SPE Line 4 site 08
L4008	CLT	3044	48 D19B	37.2147	-116.0648	1.5050	NNSS-SPE Line 4 site 08
L4008	CLZ	3045	48 D19B	37.2147	-116.0648	1.5050	NNSS-SPE Line 4 site 08
L4008	CLR	3046	48 D19B	37.2147	-116.0648	1.5050	NNSS-SPE Line 4 site 08
L4008	CLT	3047	48 D19B	37.2147	-116.0648	1.5050	NNSS-SPE Line 4 site 08
L4008	CLZ	3048	225358-22 D19B	37.2147	-116.0648	1.5050	NNSS-SPE Line 4 site 08
L4008	CLR	3049	225358-22 D19B	37.2147	-116.0648	1.5050	NNSS-SPE Line 4 site 08
L4008	CLT	3050	225358-22 D19B	37.2147	-116.0648	1.5050	NNSS-SPE Line 4 site 08
L4009	CLZ	3051	32 90B0	37.2139	-116.0653	1.5070	NNSS-SPE Line 4 site 09
L4009	CLZ	3052	32 9501	37.2139	-116.0653	1.5070	NNSS-SPE Line 4 site 09
L4009	CLZ	3053	32 982F	37.2139	-116.0653	1.5070	NNSS-SPE Line 4 site 09
L4009	CLZ	3054	32 B3AE	37.2139	-116.0653	1.5070	NNSS-SPE Line 4 site 09
L4009	CLZ	3055	32 B3AE	37.2139	-116.0653	1.5070	NNSS-SPE Line 4 site 09
L4009	CLZ	3056	32 B3AE	37.2139	-116.0653	1.5070	NNSS-SPE Line 4 site 09
L4009	CLZ	3057	32 B3AE	37.2139	-116.0653	1.5070	NNSS-SPE Line 4 site 09
L4009	CLZ	3058	32 B3AE	37.2139	-116.0653	1.5070	NNSS-SPE Line 4 site 09
L4009	CLZ	3059	32 B3B6	37.2139	-116.0653	1.5070	NNSS-SPE Line 4 site 09
L4009	CLR	3060	32 B3B6	37.2139	-116.0653	1.5070	NNSS-SPE Line 4 site 09
L4009	CLT	3061	32 B3B6	37.2139	-116.0653	1.5070	NNSS-SPE Line 4 site 09
L4009	CLZ	3062	32 B3B6	37.2139	-116.0653	1.5070	NNSS-SPE Line 4 site 09
L4009	CLR	3063	32 B3B6	37.2139	-116.0653	1.5070	NNSS-SPE Line 4 site 09
L4009	CLT	3064	32 B3B6	37.2139	-116.0653	1.5070	NNSS-SPE Line 4 site 09
L4009	CLZ	3065	32 B3B6	37.2139	-116.0653	1.5070	NNSS-SPE Line 4 site 09
L4009	CLR	3066	32 B3B6	37.2139	-116.0653	1.5070	NNSS-SPE Line 4 site 09
L4009	CLT	3067	32 B3B6	37.2139	-116.0653	1.5070	NNSS-SPE Line 4 site 09
L4009	CLZ	3068	32 B3B6	37.2139	-116.0653	1.5070	NNSS-SPE Line 4 site 09
L4009	CLR	3069	32 B3B6	37.2139	-116.0653	1.5070	NNSS-SPE Line 4 site 09
L4009	CLT	3070	32 B3B6	37.2139	-116.0653	1.5070	NNSS-SPE Line 4 site 09
L4009	CLZ	3071	225358-40 B3B6	37.2139	-116.0653	1.5070	NNSS-SPE Line 4 site 09
L4009	CLR	3072	225358-40 B3B6	37.2139	-116.0653	1.5070	NNSS-SPE Line 4 site 09
L4009	CLT	3073	225358-40 B3B6	37.2139	-116.0653	1.5070	NNSS-SPE Line 4 site 09

Appendix 7
Selected Metadata for SPE-6 Surface Stations

Station ID	Channel	Channel ID	Description	Estimated Latitude	Estimated Longitude	Elevation km (amsl)	Location
L4009	CLZ	3074	225358-40 B3B6	37.2139	-116.0653	1.5070	NNSS-SPE Line 4 site 09
L4009	CLR	3075	225358-40 B3B6	37.2139	-116.0653	1.5070	NNSS-SPE Line 4 site 09
L4009	CLT	3076	225358-40 B3B6	37.2139	-116.0653	1.5070	NNSS-SPE Line 4 site 09
L4009	CLZ	3077	225358-40 B3B6	37.2139	-116.0653	1.5070	NNSS-SPE Line 4 site 09
L4009	CLR	3078	225358-40 B3B6	37.2139	-116.0653	1.5070	NNSS-SPE Line 4 site 09
L4009	CLT	3079	225358-40 B3B6	37.2139	-116.0653	1.5070	NNSS-SPE Line 4 site 09
L4009	CLZ	3080	225358-40 B3B6	37.2139	-116.0653	1.5070	NNSS-SPE Line 4 site 09
L4009	CLR	3081	225358-40 B3B6	37.2139	-116.0653	1.5070	NNSS-SPE Line 4 site 09
L4009	CLT	3082	225358-40 B3B6	37.2139	-116.0653	1.5070	NNSS-SPE Line 4 site 09
L4009	CLZ	3083	27 D134	37.2139	-116.0653	1.5070	NNSS-SPE Line 4 site 09
L4009	CLR	3084	27 D134	37.2139	-116.0653	1.5070	NNSS-SPE Line 4 site 09
L4009	CLT	3085	27 D134	37.2139	-116.0653	1.5070	NNSS-SPE Line 4 site 09
L4010	CLZ	3086	75 90B0	37.2131	-116.0658	1.5040	NNSS-SPE Line 4 site 10
L4010	CLZ	3087	75 9501	37.2131	-116.0658	1.5040	NNSS-SPE Line 4 site 10
L4010	CLZ	3088	75 982F	37.2131	-116.0658	1.5040	NNSS-SPE Line 4 site 10
L4010	CLZ	3089	75 B3AE	37.2131	-116.0658	1.5040	NNSS-SPE Line 4 site 10
L4010	CLZ	3090	75 B3AE	37.2131	-116.0658	1.5040	NNSS-SPE Line 4 site 10
L4010	CLZ	3091	75 B3AE	37.2131	-116.0658	1.5040	NNSS-SPE Line 4 site 10
L4010	CLZ	3092	75 B3AE	37.2131	-116.0658	1.5040	NNSS-SPE Line 4 site 10
L4010	CLZ	3093	75 B3AE	37.2131	-116.0658	1.5040	NNSS-SPE Line 4 site 10
L4010	CLZ	3094	75 B3B6	37.2131	-116.0658	1.5040	NNSS-SPE Line 4 site 10
L4010	CLR	3095	75 B3B6	37.2131	-116.0658	1.5040	NNSS-SPE Line 4 site 10
L4010	CLT	3096	75 B3B6	37.2131	-116.0658	1.5040	NNSS-SPE Line 4 site 10
L4010	CLZ	3097	75 B3B6	37.2131	-116.0658	1.5040	NNSS-SPE Line 4 site 10
L4010	CLR	3098	75 B3B6	37.2131	-116.0658	1.5040	NNSS-SPE Line 4 site 10
L4010	CLT	3099	75 B3B6	37.2131	-116.0658	1.5040	NNSS-SPE Line 4 site 10
L4010	CLZ	3100	75 B3B6	37.2131	-116.0658	1.5040	NNSS-SPE Line 4 site 10
L4010	CLR	3101	75 B3B6	37.2131	-116.0658	1.5040	NNSS-SPE Line 4 site 10
L4010	CLT	3102	75 B3B6	37.2131	-116.0658	1.5040	NNSS-SPE Line 4 site 10
L4010	CLZ	3103	225358-05 B3B6	37.2131	-116.0658	1.5040	NNSS-SPE Line 4 site 10
L4010	CLR	3104	225358-05 B3B6	37.2131	-116.0658	1.5040	NNSS-SPE Line 4 site 10

Appendix 7
Selected Metadata for SPE-6 Surface Stations

Station ID	Channel	Channel ID	Description	Estimated Latitude	Estimated Longitude	Elevation km (amsl)	Location
L4010	CLT	3105	225358-05 B3B6	37.2131	-116.0658	1.5040	NNSS-SPE Line 4 site 10
L4010	CLZ	3106	225358-05 B3B6	37.2131	-116.0658	1.5040	NNSS-SPE Line 4 site 10
L4010	CLR	3107	225358-05 B3B6	37.2131	-116.0658	1.5040	NNSS-SPE Line 4 site 10
L4010	CLT	3108	225358-05 B3B6	37.2131	-116.0658	1.5040	NNSS-SPE Line 4 site 10
L4010	CLZ	3109	225358-05 B3B6	37.2131	-116.0658	1.5040	NNSS-SPE Line 4 site 10
L4010	CLR	3110	225358-05 B3B6	37.2131	-116.0658	1.5040	NNSS-SPE Line 4 site 10
L4010	CLT	3111	225358-05 B3B6	37.2131	-116.0658	1.5040	NNSS-SPE Line 4 site 10
L4010	CLZ	3112	225358-05 B3B6	37.2131	-116.0658	1.5040	NNSS-SPE Line 4 site 10
L4010	CLR	3113	225358-05 B3B6	37.2131	-116.0658	1.5040	NNSS-SPE Line 4 site 10
L4010	CLT	3114	225358-05 B3B6	37.2131	-116.0658	1.5040	NNSS-SPE Line 4 site 10
L4010	CLZ	3115	225358-32 B3B6	37.2131	-116.0658	1.5040	NNSS-SPE Line 4 site 10
L4010	CLR	3116	225358-32 B3B6	37.2131	-116.0658	1.5040	NNSS-SPE Line 4 site 10
L4010	CLT	3117	225358-32 B3B6	37.2131	-116.0658	1.5040	NNSS-SPE Line 4 site 10
L4011	CLZ	3118	97 90B0	37.2123	-116.0663	1.5080	NNSS-SPE Line 4 site 11
L4011	CLZ	3119	97 9501	37.2123	-116.0663	1.5080	NNSS-SPE Line 4 site 11
L4011	CLZ	3120	97 982F	37.2123	-116.0663	1.5080	NNSS-SPE Line 4 site 11
L4011	CLZ	3121	97 B3AE	37.2123	-116.0663	1.5080	NNSS-SPE Line 4 site 11
L4011	CLZ	3122	97 B3AE	37.2123	-116.0663	1.5080	NNSS-SPE Line 4 site 11
L4011	CLZ	3123	97 B3AE	37.2123	-116.0663	1.5080	NNSS-SPE Line 4 site 11
L4011	CLZ	3124	97 B3AE	37.2123	-116.0663	1.5080	NNSS-SPE Line 4 site 11
L4011	CLZ	3125	97 B3AE	37.2123	-116.0663	1.5080	NNSS-SPE Line 4 site 11
L4011	CLZ	3126	97 B3AE	37.2123	-116.0663	1.5080	NNSS-SPE Line 4 site 11
L4011	CLR	3127	97 B3AE	37.2123	-116.0663	1.5080	NNSS-SPE Line 4 site 11
L4011	CLT	3128	97 B3AE	37.2123	-116.0663	1.5080	NNSS-SPE Line 4 site 11
L4011	CLZ	3129	97 B3AE	37.2123	-116.0663	1.5080	NNSS-SPE Line 4 site 11
L4011	CLR	3130	97 B3AE	37.2123	-116.0663	1.5080	NNSS-SPE Line 4 site 11
L4011	CLT	3131	97 B3AE	37.2123	-116.0663	1.5080	NNSS-SPE Line 4 site 11
L4011	CLZ	3132	97 B3AE	37.2123	-116.0663	1.5080	NNSS-SPE Line 4 site 11
L4011	CLR	3133	97 B3AE	37.2123	-116.0663	1.5080	NNSS-SPE Line 4 site 11
L4011	CLT	3134	97 B3AE	37.2123	-116.0663	1.5080	NNSS-SPE Line 4 site 11
L4011	CLZ	3135	97 B3AE	37.2123	-116.0663	1.5080	NNSS-SPE Line 4 site 11

Appendix 7
Selected Metadata for SPE-6 Surface Stations

Station ID	Channel	Channel ID	Description	Estimated Latitude	Estimated Longitude	Elevation km (amsl)	Location
L4011	CLR	3136	97 B3AE	37.2123	-116.0663	1.5080	NNSS-SPE Line 4 site 11
L4011	CLT	3137	97 B3AE	37.2123	-116.0663	1.5080	NNSS-SPE Line 4 site 11
L4011	CLZ	3138	76 B3AE	37.2123	-116.0663	1.5080	NNSS-SPE Line 4 site 11
L4011	CLR	3139	76 B3AE	37.2123	-116.0663	1.5080	NNSS-SPE Line 4 site 11
L4011	CLT	3140	76 B3AE	37.2123	-116.0663	1.5080	NNSS-SPE Line 4 site 11
L4011	CLZ	3141	76 B3AE	37.2123	-116.0663	1.5080	NNSS-SPE Line 4 site 11
L4011	CLR	3142	76 B3AE	37.2123	-116.0663	1.5080	NNSS-SPE Line 4 site 11
L4011	CLT	3143	76 B3AE	37.2123	-116.0663	1.5080	NNSS-SPE Line 4 site 11
L4011	CLZ	3144	76 B3AE	37.2123	-116.0663	1.5080	NNSS-SPE Line 4 site 11
L4011	CLR	3145	76 B3AE	37.2123	-116.0663	1.5080	NNSS-SPE Line 4 site 11
L4011	CLT	3146	76 B3AE	37.2123	-116.0663	1.5080	NNSS-SPE Line 4 site 11
L4011	CLZ	3147	76 B3AE	37.2123	-116.0663	1.5080	NNSS-SPE Line 4 site 11
L4011	CLR	3148	76 B3AE	37.2123	-116.0663	1.5080	NNSS-SPE Line 4 site 11
L4011	CLT	3149	76 B3AE	37.2123	-116.0663	1.5080	NNSS-SPE Line 4 site 11
L4011	CLZ	3150	31 D13F	37.2123	-116.0663	1.5080	NNSS-SPE Line 4 site 11
L4011	CLR	3151	31 D13F	37.2123	-116.0663	1.5080	NNSS-SPE Line 4 site 11
L4011	CLT	3152	31 D13F	37.2123	-116.0663	1.5080	NNSS-SPE Line 4 site 11
L4012	CLZ	3153	106 90B0	37.2114	-116.0668	1.5110	NNSS-SPE Line 4 site 12
L4012	CLR	3154	106 90B0	37.2114	-116.0668	1.5110	NNSS-SPE Line 4 site 12
L4012	CLT	3155	106 90B0	37.2114	-116.0668	1.5110	NNSS-SPE Line 4 site 12
L4012	CLZ	3156	106 9501	37.2114	-116.0668	1.5110	NNSS-SPE Line 4 site 12
L4012	CLR	3157	106 9501	37.2114	-116.0668	1.5110	NNSS-SPE Line 4 site 12
L4012	CLT	3158	106 9501	37.2114	-116.0668	1.5110	NNSS-SPE Line 4 site 12
L4012	CLZ	3159	106 982F	37.2114	-116.0668	1.5110	NNSS-SPE Line 4 site 12
L4012	CLR	3160	106 982F	37.2114	-116.0668	1.5110	NNSS-SPE Line 4 site 12
L4012	CLT	3161	106 982F	37.2114	-116.0668	1.5110	NNSS-SPE Line 4 site 12
L4012	CLZ	3162	106 B3AE	37.2114	-116.0668	1.5110	NNSS-SPE Line 4 site 12
L4012	CLR	3163	106 B3AE	37.2114	-116.0668	1.5110	NNSS-SPE Line 4 site 12
L4012	CLT	3164	106 B3AE	37.2114	-116.0668	1.5110	NNSS-SPE Line 4 site 12
L4012	CLZ	3165	106 B3AE	37.2114	-116.0668	1.5110	NNSS-SPE Line 4 site 12
L4012	CLR	3166	106 B3AE	37.2114	-116.0668	1.5110	NNSS-SPE Line 4 site 12

Appendix 7
Selected Metadata for SPE-6 Surface Stations

Station ID	Channel	Channel ID	Description	Estimated Latitude	Estimated Longitude	Elevation km (amsl)	Location
L4012	CLT	3167	106 B3AE	37.2114	-116.0668	1.5110	NNSS-SPE Line 4 site 12
L4012	CLZ	3168	106 B3AE	37.2114	-116.0668	1.5110	NNSS-SPE Line 4 site 12
L4012	CLR	3169	106 B3AE	37.2114	-116.0668	1.5110	NNSS-SPE Line 4 site 12
L4012	CLT	3170	106 B3AE	37.2114	-116.0668	1.5110	NNSS-SPE Line 4 site 12
L4012	CLZ	3171	106 B3AE	37.2114	-116.0668	1.5110	NNSS-SPE Line 4 site 12
L4012	CLR	3172	106 B3AE	37.2114	-116.0668	1.5110	NNSS-SPE Line 4 site 12
L4012	CLT	3173	106 B3AE	37.2114	-116.0668	1.5110	NNSS-SPE Line 4 site 12
L4012	CLZ	3174	106 B3AE	37.2114	-116.0668	1.5110	NNSS-SPE Line 4 site 12
L4012	CLR	3175	106 B3AE	37.2114	-116.0668	1.5110	NNSS-SPE Line 4 site 12
L4012	CLT	3176	106 B3AE	37.2114	-116.0668	1.5110	NNSS-SPE Line 4 site 12
L4012	CLZ	3177	106 B3AE	37.2114	-116.0668	1.5110	NNSS-SPE Line 4 site 12
L4012	CLR	3178	106 B3AE	37.2114	-116.0668	1.5110	NNSS-SPE Line 4 site 12
L4012	CLT	3179	106 B3AE	37.2114	-116.0668	1.5110	NNSS-SPE Line 4 site 12
L4012	CLZ	3180	106 B3AE	37.2114	-116.0668	1.5110	NNSS-SPE Line 4 site 12
L4012	CLR	3181	106 B3AE	37.2114	-116.0668	1.5110	NNSS-SPE Line 4 site 12
L4012	CLT	3182	106 B3AE	37.2114	-116.0668	1.5110	NNSS-SPE Line 4 site 12
L4012	CLZ	3183	214830-16 B3AE	37.2114	-116.0668	1.5110	NNSS-SPE Line 4 site 12
L4012	CLR	3184	214830-16 B3AE	37.2114	-116.0668	1.5110	NNSS-SPE Line 4 site 12
L4012	CLT	3185	214830-16 B3AE	37.2114	-116.0668	1.5110	NNSS-SPE Line 4 site 12
L4012	CLZ	3186	214830-16 B3AE	37.2114	-116.0668	1.5110	NNSS-SPE Line 4 site 12
L4012	CLR	3187	214830-16 B3AE	37.2114	-116.0668	1.5110	NNSS-SPE Line 4 site 12
L4012	CLT	3188	214830-16 B3AE	37.2114	-116.0668	1.5110	NNSS-SPE Line 4 site 12
L4012	CLZ	3189	214830-16 B3AE	37.2114	-116.0668	1.5110	NNSS-SPE Line 4 site 12
L4012	CLR	3190	214830-16 B3AE	37.2114	-116.0668	1.5110	NNSS-SPE Line 4 site 12
L4012	CLT	3191	214830-16 B3AE	37.2114	-116.0668	1.5110	NNSS-SPE Line 4 site 12
L4012	CLZ	3192	214830-16 B3AE	37.2114	-116.0668	1.5110	NNSS-SPE Line 4 site 12
L4012	CLR	3193	214830-16 B3AE	37.2114	-116.0668	1.5110	NNSS-SPE Line 4 site 12
L4012	CLT	3194	214830-16 B3AE	37.2114	-116.0668	1.5110	NNSS-SPE Line 4 site 12
L4012	CLZ	3195	214830-16 B3AE	37.2114	-116.0668	1.5110	NNSS-SPE Line 4 site 12
L4012	CLR	3196	214830-16 B3AE	37.2114	-116.0668	1.5110	NNSS-SPE Line 4 site 12
L4012	CLT	3197	214830-16 B3AE	37.2114	-116.0668	1.5110	NNSS-SPE Line 4 site 12

Appendix 7
Selected Metadata for SPE-6 Surface Stations

Station ID	Channel	Channel ID	Description	Estimated Latitude	Estimated Longitude	Elevation km (amsl)	Location
L4012	CLZ	3198	225358-27 B3AE	37.2114	-116.0668	1.5110	NNSS-SPE Line 4 site 12
L4012	CLR	3199	225358-27 B3AE	37.2114	-116.0668	1.5110	NNSS-SPE Line 4 site 12
L4012	CLT	3200	225358-27 B3AE	37.2114	-116.0668	1.5110	NNSS-SPE Line 4 site 12
L4013	CLZ	3201	114 9DAF	37.2106	-116.0673	1.5120	NNSS-SPE Line 4 site 13
L4013	CLZ	3202	114 9DAF	37.2106	-116.0673	1.5120	NNSS-SPE Line 4 site 13
L4013	CLZ	3203	114 9DAF	37.2106	-116.0673	1.5120	NNSS-SPE Line 4 site 13
L4013	CLZ	3204	114 9DAF	37.2106	-116.0673	1.5120	NNSS-SPE Line 4 site 13
L4013	CLZ	3205	114 9DAF	37.2106	-116.0673	1.5120	NNSS-SPE Line 4 site 13
L4013	CLZ	3206	114 9DAF	37.2106	-116.0673	1.5120	NNSS-SPE Line 4 site 13
L4013	CLZ	3207	114 B3BE	37.2106	-116.0673	1.5120	NNSS-SPE Line 4 site 13
L4013	CLR	3208	114 B3BE	37.2106	-116.0673	1.5120	NNSS-SPE Line 4 site 13
L4013	CLT	3209	114 B3BE	37.2106	-116.0673	1.5120	NNSS-SPE Line 4 site 13
L4013	CLZ	3210	114 B3BE	37.2106	-116.0673	1.5120	NNSS-SPE Line 4 site 13
L4013	CLR	3211	114 B3BE	37.2106	-116.0673	1.5120	NNSS-SPE Line 4 site 13
L4013	CLT	3212	114 B3BE	37.2106	-116.0673	1.5120	NNSS-SPE Line 4 site 13
L4013	CLZ	3213	114 B3BE	37.2106	-116.0673	1.5120	NNSS-SPE Line 4 site 13
L4013	CLR	3214	114 B3BE	37.2106	-116.0673	1.5120	NNSS-SPE Line 4 site 13
L4013	CLT	3215	114 B3BE	37.2106	-116.0673	1.5120	NNSS-SPE Line 4 site 13
L4013	CLZ	3216	114 B3BE	37.2106	-116.0673	1.5120	NNSS-SPE Line 4 site 13
L4013	CLR	3217	114 B3BE	37.2106	-116.0673	1.5120	NNSS-SPE Line 4 site 13
L4013	CLT	3218	114 B3BE	37.2106	-116.0673	1.5120	NNSS-SPE Line 4 site 13
L4013	CLZ	3219	114 B3BE	37.2106	-116.0673	1.5120	NNSS-SPE Line 4 site 13
L4013	CLR	3220	114 B3BE	37.2106	-116.0673	1.5120	NNSS-SPE Line 4 site 13
L4013	CLT	3221	114 B3BE	37.2106	-116.0673	1.5120	NNSS-SPE Line 4 site 13
L4013	CLZ	3222	114 B3BE	37.2106	-116.0673	1.5120	NNSS-SPE Line 4 site 13
L4013	CLR	3223	114 B3BE	37.2106	-116.0673	1.5120	NNSS-SPE Line 4 site 13
L4013	CLT	3224	114 B3BE	37.2106	-116.0673	1.5120	NNSS-SPE Line 4 site 13
L4013	CLZ	3225	114 B3BE	37.2106	-116.0673	1.5120	NNSS-SPE Line 4 site 13
L4013	CLR	3226	114 B3BE	37.2106	-116.0673	1.5120	NNSS-SPE Line 4 site 13
L4013	CLT	3227	114 B3BE	37.2106	-116.0673	1.5120	NNSS-SPE Line 4 site 13
L4013	CLZ	3228	97 D193	37.2106	-116.0673	1.5120	NNSS-SPE Line 4 site 13

Appendix 7
Selected Metadata for SPE-6 Surface Stations

Station ID	Channel	Channel ID	Description	Estimated Latitude	Estimated Longitude	Elevation km (amsl)	Location
L4013	CLR	3229	97 D193	37.2106	-116.0673	1.5120	NNSS-SPE Line 4 site 13
L4013	CLT	3230	97 D193	37.2106	-116.0673	1.5120	NNSS-SPE Line 4 site 13
L4014	CLZ	3231	72 9DAF	37.2098	-116.0678	1.5110	NNSS-SPE Line 4 site 14
L4014	CLZ	3232	72 9DAF	37.2098	-116.0678	1.5110	NNSS-SPE Line 4 site 14
L4014	CLZ	3233	72 9DAF	37.2098	-116.0678	1.5110	NNSS-SPE Line 4 site 14
L4014	CLZ	3234	72 9DAF	37.2098	-116.0678	1.5110	NNSS-SPE Line 4 site 14
L4014	CLZ	3235	72 9DAF	37.2098	-116.0678	1.5110	NNSS-SPE Line 4 site 14
L4014	CLZ	3236	72 9DAF	37.2098	-116.0678	1.5110	NNSS-SPE Line 4 site 14
L4014	CLZ	3237	12 B3BE	37.2098	-116.0678	1.5110	NNSS-SPE Line 4 site 14
L4014	CLR	3238	12 B3BE	37.2098	-116.0678	1.5110	NNSS-SPE Line 4 site 14
L4014	CLT	3239	12 B3BE	37.2098	-116.0678	1.5110	NNSS-SPE Line 4 site 14
L4014	CLZ	3240	12 B3BE	37.2098	-116.0678	1.5110	NNSS-SPE Line 4 site 14
L4014	CLR	3241	12 B3BE	37.2098	-116.0678	1.5110	NNSS-SPE Line 4 site 14
L4014	CLT	3242	12 B3BE	37.2098	-116.0678	1.5110	NNSS-SPE Line 4 site 14
L4014	CLZ	3243	12 B3BE	37.2098	-116.0678	1.5110	NNSS-SPE Line 4 site 14
L4014	CLR	3244	12 B3BE	37.2098	-116.0678	1.5110	NNSS-SPE Line 4 site 14
L4014	CLT	3245	12 B3BE	37.2098	-116.0678	1.5110	NNSS-SPE Line 4 site 14
L4014	CLZ	3246	12 B3BE	37.2098	-116.0678	1.5110	NNSS-SPE Line 4 site 14
L4014	CLR	3247	12 B3BE	37.2098	-116.0678	1.5110	NNSS-SPE Line 4 site 14
L4014	CLT	3248	12 B3BE	37.2098	-116.0678	1.5110	NNSS-SPE Line 4 site 14
L4014	CLZ	3249	12 B3BE	37.2098	-116.0678	1.5110	NNSS-SPE Line 4 site 14
L4014	CLR	3250	12 B3BE	37.2098	-116.0678	1.5110	NNSS-SPE Line 4 site 14
L4014	CLT	3251	12 B3BE	37.2098	-116.0678	1.5110	NNSS-SPE Line 4 site 14
L4014	CLZ	3252	12 D15E	37.2098	-116.0678	1.5110	NNSS-SPE Line 4 site 14
L4014	CLR	3253	12 D15E	37.2098	-116.0678	1.5110	NNSS-SPE Line 4 site 14
L4014	CLT	3254	12 D15E	37.2098	-116.0678	1.5110	NNSS-SPE Line 4 site 14
L4014	CLZ	3255	12 D15E	37.2098	-116.0678	1.5110	NNSS-SPE Line 4 site 14
L4014	CLR	3256	12 D15E	37.2098	-116.0678	1.5110	NNSS-SPE Line 4 site 14
L4014	CLT	3257	12 D15E	37.2098	-116.0678	1.5110	NNSS-SPE Line 4 site 14
L4014	CLZ	3258	107 D15E	37.2098	-116.0678	1.5110	NNSS-SPE Line 4 site 14
L4014	CLR	3259	107 D15E	37.2098	-116.0678	1.5110	NNSS-SPE Line 4 site 14

Appendix 7
Selected Metadata for SPE-6 Surface Stations

Station ID	Channel	Channel ID	Description	Estimated Latitude	Estimated Longitude	Elevation km (amsl)	Location
L4014	CLT	3260	107 D15E	37.2098	-116.0678	1.5110	NNSS-SPE Line 4 site 14
L4015	CLZ	3261	74 9DAF	37.2090	-116.0683	1.5140	NNSS-SPE Line 4 site 15
L4015	CLZ	3262	74 9DAF	37.2090	-116.0683	1.5140	NNSS-SPE Line 4 site 15
L4015	CLZ	3263	74 9DAF	37.2090	-116.0683	1.5140	NNSS-SPE Line 4 site 15
L4015	CLZ	3264	74 9DAF	37.2090	-116.0683	1.5140	NNSS-SPE Line 4 site 15
L4015	CLZ	3265	74 9DAF	37.2090	-116.0683	1.5140	NNSS-SPE Line 4 site 15
L4015	CLZ	3266	74 9DAF	37.2090	-116.0683	1.5140	NNSS-SPE Line 4 site 15
L4015	CLZ	3267	74 9DAF	37.2090	-116.0683	1.5140	NNSS-SPE Line 4 site 15
L4015	CLR	3268	74 9DAF	37.2090	-116.0683	1.5140	NNSS-SPE Line 4 site 15
L4015	CLT	3269	74 9DAF	37.2090	-116.0683	1.5140	NNSS-SPE Line 4 site 15
L4015	CLZ	3270	74 9DAF	37.2090	-116.0683	1.5140	NNSS-SPE Line 4 site 15
L4015	CLR	3271	74 9DAF	37.2090	-116.0683	1.5140	NNSS-SPE Line 4 site 15
L4015	CLT	3272	74 9DAF	37.2090	-116.0683	1.5140	NNSS-SPE Line 4 site 15
L4015	CLZ	3273	49 9DAF	37.2090	-116.0683	1.5140	NNSS-SPE Line 4 site 15
L4015	CLR	3274	49 9DAF	37.2090	-116.0683	1.5140	NNSS-SPE Line 4 site 15
L4015	CLT	3275	49 9DAF	37.2090	-116.0683	1.5140	NNSS-SPE Line 4 site 15
L4015	CLZ	3276	49 9DAF	37.2090	-116.0683	1.5140	NNSS-SPE Line 4 site 15
L4015	CLR	3277	49 9DAF	37.2090	-116.0683	1.5140	NNSS-SPE Line 4 site 15
L4015	CLT	3278	49 9DAF	37.2090	-116.0683	1.5140	NNSS-SPE Line 4 site 15
L4015	CLZ	3279	49 9DAF	37.2090	-116.0683	1.5140	NNSS-SPE Line 4 site 15
L4015	CLR	3280	49 9DAF	37.2090	-116.0683	1.5140	NNSS-SPE Line 4 site 15
L4015	CLT	3281	49 9DAF	37.2090	-116.0683	1.5140	NNSS-SPE Line 4 site 15
L4015	CLZ	3282	49 9DAF	37.2090	-116.0683	1.5140	NNSS-SPE Line 4 site 15
L4015	CLR	3283	49 9DAF	37.2090	-116.0683	1.5140	NNSS-SPE Line 4 site 15
L4015	CLT	3284	49 9DAF	37.2090	-116.0683	1.5140	NNSS-SPE Line 4 site 15
L4015	CLZ	3285	49 9DAF	37.2090	-116.0683	1.5140	NNSS-SPE Line 4 site 15
L4015	CLR	3286	49 9DAF	37.2090	-116.0683	1.5140	NNSS-SPE Line 4 site 15
L4015	CLT	3287	49 9DAF	37.2090	-116.0683	1.5140	NNSS-SPE Line 4 site 15
L4015	CLZ	3288	108 D149	37.2090	-116.0683	1.5140	NNSS-SPE Line 4 site 15
L4015	CLR	3289	108 D149	37.2090	-116.0683	1.5140	NNSS-SPE Line 4 site 15
L4015	CLT	3290	108 D149	37.2090	-116.0683	1.5140	NNSS-SPE Line 4 site 15

Appendix 7
Selected Metadata for SPE-6 Surface Stations

Station ID	Channel	Channel ID	Description	Estimated Latitude	Estimated Longitude	Elevation km (amsl)	Location
L4016	CLZ	3291	42 9DAF	37.2082	-116.0688	1.5140	NNSS-SPE Line 4 site 16
L4016	CLR	3292	42 9DAF	37.2082	-116.0688	1.5140	NNSS-SPE Line 4 site 16
L4016	CLT	3293	42 9DAF	37.2082	-116.0688	1.5140	NNSS-SPE Line 4 site 16
L4016	CLZ	3294	42 9DAF	37.2082	-116.0688	1.5140	NNSS-SPE Line 4 site 16
L4016	CLR	3295	42 9DAF	37.2082	-116.0688	1.5140	NNSS-SPE Line 4 site 16
L4016	CLT	3296	42 9DAF	37.2082	-116.0688	1.5140	NNSS-SPE Line 4 site 16
L4016	CLZ	3297	42 9DAF	37.2082	-116.0688	1.5140	NNSS-SPE Line 4 site 16
L4016	CLR	3298	42 9DAF	37.2082	-116.0688	1.5140	NNSS-SPE Line 4 site 16
L4016	CLT	3299	42 9DAF	37.2082	-116.0688	1.5140	NNSS-SPE Line 4 site 16
L4016	CLZ	3300	42 9DAF	37.2082	-116.0688	1.5140	NNSS-SPE Line 4 site 16
L4016	CLR	3301	42 9DAF	37.2082	-116.0688	1.5140	NNSS-SPE Line 4 site 16
L4016	CLT	3302	42 9DAF	37.2082	-116.0688	1.5140	NNSS-SPE Line 4 site 16
L4016	CLZ	3303	42 9DAF	37.2082	-116.0688	1.5140	NNSS-SPE Line 4 site 16
L4016	CLR	3304	42 9DAF	37.2082	-116.0688	1.5140	NNSS-SPE Line 4 site 16
L4016	CLT	3305	42 9DAF	37.2082	-116.0688	1.5140	NNSS-SPE Line 4 site 16
L4016	CLZ	3306	42 9DAF	37.2082	-116.0688	1.5140	NNSS-SPE Line 4 site 16
L4016	CLR	3307	42 9DAF	37.2082	-116.0688	1.5140	NNSS-SPE Line 4 site 16
L4016	CLT	3308	42 9DAF	37.2082	-116.0688	1.5140	NNSS-SPE Line 4 site 16
L4016	CLZ	3309	42 9DAF	37.2082	-116.0688	1.5140	NNSS-SPE Line 4 site 16
L4016	CLR	3310	42 9DAF	37.2082	-116.0688	1.5140	NNSS-SPE Line 4 site 16
L4016	CLT	3311	42 9DAF	37.2082	-116.0688	1.5140	NNSS-SPE Line 4 site 16
L4016	CLZ	3312	42 9DAF	37.2082	-116.0688	1.5140	NNSS-SPE Line 4 site 16
L4016	CLR	3313	42 9DAF	37.2082	-116.0688	1.5140	NNSS-SPE Line 4 site 16
L4016	CLT	3314	42 9DAF	37.2082	-116.0688	1.5140	NNSS-SPE Line 4 site 16
L4016	CLZ	3315	32 9DAF	37.2082	-116.0688	1.5140	NNSS-SPE Line 4 site 16
L4016	CLR	3316	32 9DAF	37.2082	-116.0688	1.5140	NNSS-SPE Line 4 site 16
L4016	CLT	3317	32 9DAF	37.2082	-116.0688	1.5140	NNSS-SPE Line 4 site 16
L4016	CLZ	3318	32 9DAF	37.2082	-116.0688	1.5140	NNSS-SPE Line 4 site 16
L4016	CLR	3319	32 9DAF	37.2082	-116.0688	1.5140	NNSS-SPE Line 4 site 16
L4016	CLT	3320	32 9DAF	37.2082	-116.0688	1.5140	NNSS-SPE Line 4 site 16
L4016	CLZ	3321	32 9DAF	37.2082	-116.0688	1.5140	NNSS-SPE Line 4 site 16

Appendix 7
Selected Metadata for SPE-6 Surface Stations

Station ID	Channel	Channel ID	Description	Estimated Latitude	Estimated Longitude	Elevation km (amsl)	Location
L4016	CLR	3322	32 9DAF	37.2082	-116.0688	1.5140	NNSS-SPE Line 4 site 16
L4016	CLT	3323	32 9DAF	37.2082	-116.0688	1.5140	NNSS-SPE Line 4 site 16
L4016	CLZ	3324	32 9DAF	37.2082	-116.0688	1.5140	NNSS-SPE Line 4 site 16
L4016	CLR	3325	32 9DAF	37.2082	-116.0688	1.5140	NNSS-SPE Line 4 site 16
L4016	CLT	3326	32 9DAF	37.2082	-116.0688	1.5140	NNSS-SPE Line 4 site 16
L4016	CLZ	3327	32 9DAF	37.2082	-116.0688	1.5140	NNSS-SPE Line 4 site 16
L4016	CLR	3328	32 9DAF	37.2082	-116.0688	1.5140	NNSS-SPE Line 4 site 16
L4016	CLT	3329	32 9DAF	37.2082	-116.0688	1.5140	NNSS-SPE Line 4 site 16
L4016	CLZ	3330	225358-29 9DAF	37.2082	-116.0688	1.5140	NNSS-SPE Line 4 site 16
L4016	CLR	3331	225358-29 9DAF	37.2082	-116.0688	1.5140	NNSS-SPE Line 4 site 16
L4016	CLT	3332	225358-29 9DAF	37.2082	-116.0688	1.5140	NNSS-SPE Line 4 site 16
L4017	CLZ	3333	64 9493	37.2074	-116.0693	1.5120	NNSS-SPE Line 4 site 17
L4017	CLZ	3334	64 9493	37.2074	-116.0693	1.5120	NNSS-SPE Line 4 site 17
L4017	CLZ	3335	64 9493	37.2074	-116.0693	1.5120	NNSS-SPE Line 4 site 17
L4017	CLZ	3336	64 9493	37.2074	-116.0693	1.5120	NNSS-SPE Line 4 site 17
L4017	CLZ	3337	64 9493	37.2074	-116.0693	1.5120	NNSS-SPE Line 4 site 17
L4017	CLZ	3338	64 9493	37.2074	-116.0693	1.5120	NNSS-SPE Line 4 site 17
L4017	CLZ	3339	64 9493	37.2074	-116.0693	1.5120	NNSS-SPE Line 4 site 17
L4017	CLZ	3340	64 B3B8	37.2074	-116.0693	1.5120	NNSS-SPE Line 4 site 17
L4017	CLR	3341	64 B3B8	37.2074	-116.0693	1.5120	NNSS-SPE Line 4 site 17
L4017	CLT	3342	64 B3B8	37.2074	-116.0693	1.5120	NNSS-SPE Line 4 site 17
L4017	CLZ	3343	64 B3B8	37.2074	-116.0693	1.5120	NNSS-SPE Line 4 site 17
L4017	CLR	3344	64 B3B8	37.2074	-116.0693	1.5120	NNSS-SPE Line 4 site 17
L4017	CLT	3345	64 B3B8	37.2074	-116.0693	1.5120	NNSS-SPE Line 4 site 17
L4017	CLZ	3346	85 BC27	37.2074	-116.0693	1.5120	NNSS-SPE Line 4 site 17
L4017	CLR	3347	85 BC27	37.2074	-116.0693	1.5120	NNSS-SPE Line 4 site 17
L4017	CLT	3348	85 BC27	37.2074	-116.0693	1.5120	NNSS-SPE Line 4 site 17
L4017	CLZ	3349	85 BC27	37.2074	-116.0693	1.5120	NNSS-SPE Line 4 site 17
L4017	CLR	3350	85 BC27	37.2074	-116.0693	1.5120	NNSS-SPE Line 4 site 17
L4017	CLT	3351	85 BC27	37.2074	-116.0693	1.5120	NNSS-SPE Line 4 site 17
L4017	CLZ	3352	85 BC27	37.2074	-116.0693	1.5120	NNSS-SPE Line 4 site 17

Appendix 7
Selected Metadata for SPE-6 Surface Stations

Station ID	Channel	Channel ID	Description	Estimated Latitude	Estimated Longitude	Elevation km (amsl)	Location
L4017	CLR	3353	85 BC27	37.2074	-116.0693	1.5120	NNSS-SPE Line 4 site 17
L4017	CLT	3354	85 BC27	37.2074	-116.0693	1.5120	NNSS-SPE Line 4 site 17
L4017	CLZ	3355	85 BC27	37.2074	-116.0693	1.5120	NNSS-SPE Line 4 site 17
L4017	CLR	3356	85 BC27	37.2074	-116.0693	1.5120	NNSS-SPE Line 4 site 17
L4017	CLT	3357	85 BC27	37.2074	-116.0693	1.5120	NNSS-SPE Line 4 site 17
L4017	CLZ	3358	85 BC27	37.2074	-116.0693	1.5120	NNSS-SPE Line 4 site 17
L4017	CLR	3359	85 BC27	37.2074	-116.0693	1.5120	NNSS-SPE Line 4 site 17
L4017	CLT	3360	85 BC27	37.2074	-116.0693	1.5120	NNSS-SPE Line 4 site 17
L4017	CLZ	3361	22 D15C	37.2074	-116.0693	1.5120	NNSS-SPE Line 4 site 17
L4017	CLR	3362	22 D15C	37.2074	-116.0693	1.5120	NNSS-SPE Line 4 site 17
L4017	CLT	3363	22 D15C	37.2074	-116.0693	1.5120	NNSS-SPE Line 4 site 17
L4018	CLZ	3364	87 9493	37.2066	-116.0698	1.5080	NNSS-SPE Line 4 site 18
L4018	CLZ	3365	87 9493	37.2066	-116.0698	1.5080	NNSS-SPE Line 4 site 18
L4018	CLZ	3366	87 9493	37.2066	-116.0698	1.5080	NNSS-SPE Line 4 site 18
L4018	CLZ	3367	87 9493	37.2066	-116.0698	1.5080	NNSS-SPE Line 4 site 18
L4018	CLZ	3368	87 9493	37.2066	-116.0698	1.5080	NNSS-SPE Line 4 site 18
L4018	CLZ	3369	87 9493	37.2066	-116.0698	1.5080	NNSS-SPE Line 4 site 18
L4018	CLZ	3370	87 9493	37.2066	-116.0698	1.5080	NNSS-SPE Line 4 site 18
L4018	CLZ	3371	87 B3B8	37.2066	-116.0698	1.5080	NNSS-SPE Line 4 site 18
L4018	CLR	3372	87 B3B8	37.2066	-116.0698	1.5080	NNSS-SPE Line 4 site 18
L4018	CLT	3373	87 B3B8	37.2066	-116.0698	1.5080	NNSS-SPE Line 4 site 18
L4018	CLZ	3374	87 B3B8	37.2066	-116.0698	1.5080	NNSS-SPE Line 4 site 18
L4018	CLR	3375	87 B3B8	37.2066	-116.0698	1.5080	NNSS-SPE Line 4 site 18
L4018	CLT	3376	87 B3B8	37.2066	-116.0698	1.5080	NNSS-SPE Line 4 site 18
L4018	CLZ	3377	6 BC27	37.2066	-116.0698	1.5080	NNSS-SPE Line 4 site 18
L4018	CLR	3378	6 BC27	37.2066	-116.0698	1.5080	NNSS-SPE Line 4 site 18
L4018	CLT	3379	6 BC27	37.2066	-116.0698	1.5080	NNSS-SPE Line 4 site 18
L4018	CLZ	3380	6 BC27	37.2066	-116.0698	1.5080	NNSS-SPE Line 4 site 18
L4018	CLR	3381	6 BC27	37.2066	-116.0698	1.5080	NNSS-SPE Line 4 site 18
L4018	CLT	3382	6 BC27	37.2066	-116.0698	1.5080	NNSS-SPE Line 4 site 18
L4018	CLZ	3383	6 BC27	37.2066	-116.0698	1.5080	NNSS-SPE Line 4 site 18

Appendix 7
Selected Metadata for SPE-6 Surface Stations

Station ID	Channel	Channel ID	Description	Estimated Latitude	Estimated Longitude	Elevation km (amsl)	Location
L4018	CLR	3384	6 BC27	37.2066	-116.0698	1.5080	NNSS-SPE Line 4 site 18
L4018	CLT	3385	6 BC27	37.2066	-116.0698	1.5080	NNSS-SPE Line 4 site 18
L4018	CLZ	3386	6 BC27	37.2066	-116.0698	1.5080	NNSS-SPE Line 4 site 18
L4018	CLR	3387	6 BC27	37.2066	-116.0698	1.5080	NNSS-SPE Line 4 site 18
L4018	CLT	3388	6 BC27	37.2066	-116.0698	1.5080	NNSS-SPE Line 4 site 18
L4018	CLZ	3389	6 BC27	37.2066	-116.0698	1.5080	NNSS-SPE Line 4 site 18
L4018	CLR	3390	6 BC27	37.2066	-116.0698	1.5080	NNSS-SPE Line 4 site 18
L4018	CLT	3391	6 BC27	37.2066	-116.0698	1.5080	NNSS-SPE Line 4 site 18
L4018	CLZ	3392	63 BC27	37.2066	-116.0698	1.5080	NNSS-SPE Line 4 site 18
L4018	CLR	3393	63 BC27	37.2066	-116.0698	1.5080	NNSS-SPE Line 4 site 18
L4018	CLT	3394	63 BC27	37.2066	-116.0698	1.5080	NNSS-SPE Line 4 site 18
L4019	CLZ	3395	94 9493	37.2058	-116.0703	1.5130	NNSS-SPE Line 4 site 19
L4019	CLZ	3396	94 9493	37.2058	-116.0703	1.5130	NNSS-SPE Line 4 site 19
L4019	CLZ	3397	94 9493	37.2058	-116.0703	1.5130	NNSS-SPE Line 4 site 19
L4019	CLZ	3398	94 9493	37.2058	-116.0703	1.5130	NNSS-SPE Line 4 site 19
L4019	CLZ	3399	94 9493	37.2058	-116.0703	1.5130	NNSS-SPE Line 4 site 19
L4019	CLZ	3400	94 9493	37.2058	-116.0703	1.5130	NNSS-SPE Line 4 site 19
L4019	CLZ	3401	94 9493	37.2058	-116.0703	1.5130	NNSS-SPE Line 4 site 19
L4019	CLZ	3402	70 9493	37.2058	-116.0703	1.5130	NNSS-SPE Line 4 site 19
L4019	CLR	3403	70 9493	37.2058	-116.0703	1.5130	NNSS-SPE Line 4 site 19
L4019	CLT	3404	70 9493	37.2058	-116.0703	1.5130	NNSS-SPE Line 4 site 19
L4019	CLZ	3405	70 9493	37.2058	-116.0703	1.5130	NNSS-SPE Line 4 site 19
L4019	CLR	3406	70 9493	37.2058	-116.0703	1.5130	NNSS-SPE Line 4 site 19
L4019	CLT	3407	70 9493	37.2058	-116.0703	1.5130	NNSS-SPE Line 4 site 19
L4019	CLZ	3408	70 BCBC	37.2058	-116.0703	1.5130	NNSS-SPE Line 4 site 19
L4019	CLR	3409	70 BCBC	37.2058	-116.0703	1.5130	NNSS-SPE Line 4 site 19
L4019	CLT	3410	70 BCBC	37.2058	-116.0703	1.5130	NNSS-SPE Line 4 site 19
L4019	CLZ	3411	70 BCBC	37.2058	-116.0703	1.5130	NNSS-SPE Line 4 site 19
L4019	CLR	3412	70 BCBC	37.2058	-116.0703	1.5130	NNSS-SPE Line 4 site 19
L4019	CLT	3413	70 BCBC	37.2058	-116.0703	1.5130	NNSS-SPE Line 4 site 19
L4019	CLZ	3414	225358-07 D155	37.2058	-116.0703	1.5130	NNSS-SPE Line 4 site 19

Appendix 7
Selected Metadata for SPE-6 Surface Stations

Station ID	Channel	Channel ID	Description	Estimated Latitude	Estimated Longitude	Elevation km (amsl)	Location
L4019	CLR	3415	225358-07 D155	37.2058	-116.0703	1.5130	NNSS-SPE Line 4 site 19
L4019	CLT	3416	225358-07 D155	37.2058	-116.0703	1.5130	NNSS-SPE Line 4 site 19
L4019	CLZ	3417	225358-07 D155	37.2058	-116.0703	1.5130	NNSS-SPE Line 4 site 19
L4019	CLR	3418	225358-07 D155	37.2058	-116.0703	1.5130	NNSS-SPE Line 4 site 19
L4019	CLT	3419	225358-07 D155	37.2058	-116.0703	1.5130	NNSS-SPE Line 4 site 19
L4019	CLZ	3420	225358-07 D155	37.2058	-116.0703	1.5130	NNSS-SPE Line 4 site 19
L4019	CLR	3421	225358-07 D155	37.2058	-116.0703	1.5130	NNSS-SPE Line 4 site 19
L4019	CLT	3422	225358-07 D155	37.2058	-116.0703	1.5130	NNSS-SPE Line 4 site 19
L4019	CLZ	3423	225358-07 D155	37.2058	-116.0703	1.5130	NNSS-SPE Line 4 site 19
L4019	CLR	3424	225358-07 D155	37.2058	-116.0703	1.5130	NNSS-SPE Line 4 site 19
L4019	CLT	3425	225358-07 D155	37.2058	-116.0703	1.5130	NNSS-SPE Line 4 site 19
L4019	CLZ	3426	4 D1A6	37.2058	-116.0703	1.5130	NNSS-SPE Line 4 site 19
L4019	CLR	3427	4 D1A6	37.2058	-116.0703	1.5130	NNSS-SPE Line 4 site 19
L4019	CLT	3428	4 D1A6	37.2058	-116.0703	1.5130	NNSS-SPE Line 4 site 19
L4020	DHZ	3429	T4315 9493	37.2050	-116.0708	1.5070	NNSS-SPE Line 4 site 20
L4020	DHR	3430	T4315 9493	37.2050	-116.0708	1.5070	NNSS-SPE Line 4 site 20
L4020	DHT	3431	T4315 9493	37.2050	-116.0708	1.5070	NNSS-SPE Line 4 site 20
L4020	DHZ	3432	T4315 9493	37.2050	-116.0708	1.5070	NNSS-SPE Line 4 site 20
L4020	DHR	3433	T4315 9493	37.2050	-116.0708	1.5070	NNSS-SPE Line 4 site 20
L4020	DHT	3434	T4315 9493	37.2050	-116.0708	1.5070	NNSS-SPE Line 4 site 20
L4020	DHZ	3435	T4315 9493	37.2050	-116.0708	1.5070	NNSS-SPE Line 4 site 20
L4020	DHR	3436	T4315 9493	37.2050	-116.0708	1.5070	NNSS-SPE Line 4 site 20
L4020	DHT	3437	T4315 9493	37.2050	-116.0708	1.5070	NNSS-SPE Line 4 site 20
L4020	DHZ	3438	T4315 9493	37.2050	-116.0708	1.5070	NNSS-SPE Line 4 site 20
L4020	DHR	3439	T4315 9493	37.2050	-116.0708	1.5070	NNSS-SPE Line 4 site 20
L4020	DHT	3440	T4315 9493	37.2050	-116.0708	1.5070	NNSS-SPE Line 4 site 20
L4020	DHZ	3441	T4315 9493	37.2050	-116.0708	1.5070	NNSS-SPE Line 4 site 20
L4020	DHR	3442	T4315 9493	37.2050	-116.0708	1.5070	NNSS-SPE Line 4 site 20
L4020	DHT	3443	T4315 9493	37.2050	-116.0708	1.5070	NNSS-SPE Line 4 site 20
L4020	DHZ	3444	T4315 9493	37.2050	-116.0708	1.5070	NNSS-SPE Line 4 site 20
L4020	DHR	3445	T4315 9493	37.2050	-116.0708	1.5070	NNSS-SPE Line 4 site 20

Appendix 7
Selected Metadata for SPE-6 Surface Stations

Station ID	Channel	Channel ID	Description	Estimated Latitude	Estimated Longitude	Elevation km (amsl)	Location
L4020	DHT	3446	T4315 9493	37.2050	-116.0708	1.5070	NNSS-SPE Line 4 site 20
L4020	DHZ	3447	T4315 9493	37.2050	-116.0708	1.5070	NNSS-SPE Line 4 site 20
L4020	DHR	3448	T4315 9493	37.2050	-116.0708	1.5070	NNSS-SPE Line 4 site 20
L4020	DHT	3449	T4315 9493	37.2050	-116.0708	1.5070	NNSS-SPE Line 4 site 20
L4020	DHZ	3450	T4315 9493	37.2050	-116.0708	1.5070	NNSS-SPE Line 4 site 20
L4020	DHR	3451	T4315 9493	37.2050	-116.0708	1.5070	NNSS-SPE Line 4 site 20
L4020	DHT	3452	T4315 9493	37.2050	-116.0708	1.5070	NNSS-SPE Line 4 site 20
L4020	DHZ	3453	T4315 9493	37.2050	-116.0708	1.5070	NNSS-SPE Line 4 site 20
L4020	DHR	3454	T4315 9493	37.2050	-116.0708	1.5070	NNSS-SPE Line 4 site 20
L4020	DHT	3455	T4315 9493	37.2050	-116.0708	1.5070	NNSS-SPE Line 4 site 20
L4020	DHZ	3456	T4315 BCBC	37.2050	-116.0708	1.5070	NNSS-SPE Line 4 site 20
L4020	DHR	3457	T4315 BCBC	37.2050	-116.0708	1.5070	NNSS-SPE Line 4 site 20
L4020	DHT	3458	T4315 BCBC	37.2050	-116.0708	1.5070	NNSS-SPE Line 4 site 20
L4020	DHZ	3459	T4315 BCBC	37.2050	-116.0708	1.5070	NNSS-SPE Line 4 site 20
L4020	DHR	3460	T4315 BCBC	37.2050	-116.0708	1.5070	NNSS-SPE Line 4 site 20
L4020	DHT	3461	T4315 BCBC	37.2050	-116.0708	1.5070	NNSS-SPE Line 4 site 20
L4020	DHZ	3462	T4315 D155	37.2050	-116.0708	1.5070	NNSS-SPE Line 4 site 20
L4020	DHR	3463	T4315 D155	37.2050	-116.0708	1.5070	NNSS-SPE Line 4 site 20
L4020	DHT	3464	T4315 D155	37.2050	-116.0708	1.5070	NNSS-SPE Line 4 site 20
L4020	DHZ	3465	T4315 D155	37.2050	-116.0708	1.5070	NNSS-SPE Line 4 site 20
L4020	DHR	3466	T4315 D155	37.2050	-116.0708	1.5070	NNSS-SPE Line 4 site 20
L4020	DHT	3467	T4315 D155	37.2050	-116.0708	1.5070	NNSS-SPE Line 4 site 20
L4020	DHZ	3468	T4315 D155	37.2050	-116.0708	1.5070	NNSS-SPE Line 4 site 20
L4020	DHR	3469	T4315 D155	37.2050	-116.0708	1.5070	NNSS-SPE Line 4 site 20
L4020	DHT	3470	T4315 D155	37.2050	-116.0708	1.5070	NNSS-SPE Line 4 site 20
L4020	DHZ	3471	T4315 D155	37.2050	-116.0708	1.5070	NNSS-SPE Line 4 site 20
L4020	DHR	3472	T4315 D155	37.2050	-116.0708	1.5070	NNSS-SPE Line 4 site 20
L4020	DHT	3473	T4315 D155	37.2050	-116.0708	1.5070	NNSS-SPE Line 4 site 20
L4020	DHZ	3474	T4315 D155	37.2050	-116.0708	1.5070	NNSS-SPE Line 4 site 20
L4020	DHR	3475	T4315 D155	37.2050	-116.0708	1.5070	NNSS-SPE Line 4 site 20
L4020	DHT	3476	T4315 D155	37.2050	-116.0708	1.5070	NNSS-SPE Line 4 site 20

Appendix 7
Selected Metadata for SPE-6 Surface Stations

Station ID	Channel	Channel ID	Description	Estimated Latitude	Estimated Longitude	Elevation km (amsl)	Location
L4023	CHZ	3477	464 950A	37.1928	-116.0782	1.4400	NNSS-SPE Line 4 site 23
L4023	CH1	3478	464 950A	37.1928	-116.0782	1.4400	NNSS-SPE Line 4 site 23
L4023	CH2	3479	464 950A	37.1928	-116.0782	1.4400	NNSS-SPE Line 4 site 23
L4023	CHZ	3480	464 950A	37.1928	-116.0782	1.4400	NNSS-SPE Line 4 site 23
L4023	CH1	3481	464 950A	37.1928	-116.0782	1.4400	NNSS-SPE Line 4 site 23
L4023	CH2	3482	464 950A	37.1928	-116.0782	1.4400	NNSS-SPE Line 4 site 23
L4023	CHZ	3483	1017 950A	37.1928	-116.0782	1.4400	NNSS-SPE Line 4 site 23
L4023	CH1	3484	1017 950A	37.1928	-116.0782	1.4400	NNSS-SPE Line 4 site 23
L4023	CH2	3485	1017 950A	37.1928	-116.0782	1.4400	NNSS-SPE Line 4 site 23
L4023	CHZ	3486	1034 950A	37.1928	-116.0782	1.4400	NNSS-SPE Line 4 site 23
L4023	CHN	3487	1034 950A	37.1928	-116.0782	1.4400	NNSS-SPE Line 4 site 23
L4023	CHE	3488	1034 950A	37.1928	-116.0782	1.4400	NNSS-SPE Line 4 site 23
L4023	CHZ	3489	1037 BCAB	37.1928	-116.0782	1.4400	NNSS-SPE Line 4 site 23
L4023	CHN	3490	1037 BCAB	37.1928	-116.0782	1.4400	NNSS-SPE Line 4 site 23
L4023	CHE	3491	1037 BCAB	37.1928	-116.0782	1.4400	NNSS-SPE Line 4 site 23
L4023	CHZ	3492	1037 BCAB	37.1928	-116.0782	1.4400	NNSS-SPE Line 4 site 23
L4023	CHN	3493	1037 BCAB	37.1928	-116.0782	1.4400	NNSS-SPE Line 4 site 23
L4023	CHE	3494	1037 BCAB	37.1928	-116.0782	1.4400	NNSS-SPE Line 4 site 23
L4023	CHZ	3495	1037 BCAB	37.1928	-116.0782	1.4400	NNSS-SPE Line 4 site 23
L4023	CHN	3496	1037 BCAB	37.1928	-116.0782	1.4400	NNSS-SPE Line 4 site 23
L4023	CHE	3497	1037 BCAB	37.1928	-116.0782	1.4400	NNSS-SPE Line 4 site 23
L4026	CHZ	3498	599 9003	37.1807	-116.0856	1.3800	NNSS-SPE Line 4 site 26
L4026	CH1	3499	599 9003	37.1807	-116.0856	1.3800	NNSS-SPE Line 4 site 26
L4026	CH2	3500	599 9003	37.1807	-116.0856	1.3800	NNSS-SPE Line 4 site 26
L4026	CHZ	3501	599 9003	37.1807	-116.0856	1.3800	NNSS-SPE Line 4 site 26
L4026	CH1	3502	599 9003	37.1807	-116.0856	1.3800	NNSS-SPE Line 4 site 26
L4026	CH2	3503	599 9003	37.1807	-116.0856	1.3800	NNSS-SPE Line 4 site 26
L4026	CHZ	3504	1013 9003	37.1807	-116.0856	1.3800	NNSS-SPE Line 4 site 26
L4026	CH1	3505	1013 9003	37.1807	-116.0856	1.3800	NNSS-SPE Line 4 site 26
L4026	CH2	3506	1013 9003	37.1807	-116.0856	1.3800	NNSS-SPE Line 4 site 26
L4026	CHZ	3507	1013 9003	37.1807	-116.0856	1.3800	NNSS-SPE Line 4 site 26

Appendix 7
Selected Metadata for SPE-6 Surface Stations

Station ID	Channel	Channel ID	Description	Estimated Latitude	Estimated Longitude	Elevation km (amsl)	Location
L4026	CH1	3508	1013 9003	37.1807	-116.0856	1.3800	NNSS-SPE Line 4 site 26
L4026	CH2	3509	1013 9003	37.1807	-116.0856	1.3800	NNSS-SPE Line 4 site 26
L4026	CHZ	3510	1013 9003	37.1807	-116.0856	1.3800	NNSS-SPE Line 4 site 26
L4026	CHN	3511	1013 9003	37.1807	-116.0856	1.3800	NNSS-SPE Line 4 site 26
L4026	CHE	3512	1013 9003	37.1807	-116.0856	1.3800	NNSS-SPE Line 4 site 26
L4026	CHZ	3513	1013 B3B1	37.1807	-116.0856	1.3800	NNSS-SPE Line 4 site 26
L4026	CHN	3514	1013 B3B1	37.1807	-116.0856	1.3800	NNSS-SPE Line 4 site 26
L4026	CHE	3515	1013 B3B1	37.1807	-116.0856	1.3800	NNSS-SPE Line 4 site 26
L4026	CHZ	3516	1013 9E1D	37.1807	-116.0856	1.3800	NNSS-SPE Line 4 site 26
L4026	CHN	3517	1013 9E1D	37.1807	-116.0856	1.3800	NNSS-SPE Line 4 site 26
L4026	CHE	3518	1013 9E1D	37.1807	-116.0856	1.3800	NNSS-SPE Line 4 site 26
L4026	CHZ	3519	1013 9E1D	37.1807	-116.0856	1.3800	NNSS-SPE Line 4 site 26
L4026	CHN	3520	1013 9E1D	37.1807	-116.0856	1.3800	NNSS-SPE Line 4 site 26
L4026	CHE	3521	1013 9E1D	37.1807	-116.0856	1.3800	NNSS-SPE Line 4 site 26
L4026	CHZ	3522	1013 9E1D	37.1807	-116.0856	1.3800	NNSS-SPE Line 4 site 26
L4026	CHN	3523	1013 9E1D	37.1807	-116.0856	1.3800	NNSS-SPE Line 4 site 26
L4026	CHE	3524	1013 9E1D	37.1807	-116.0856	1.3800	NNSS-SPE Line 4 site 26
L4028	CHZ	3525	454 9004	37.1483	-116.1053	1.3550	NNSS-SPE Line 4 site 28
L4028	CH1	3526	454 9004	37.1483	-116.1053	1.3550	NNSS-SPE Line 4 site 28
L4028	CH2	3527	454 9004	37.1483	-116.1053	1.3550	NNSS-SPE Line 4 site 28
L4028	CHZ	3528	454 9004	37.1483	-116.1053	1.3550	NNSS-SPE Line 4 site 28
L4028	CH1	3529	454 9004	37.1483	-116.1053	1.3550	NNSS-SPE Line 4 site 28
L4028	CH2	3530	454 9004	37.1483	-116.1053	1.3550	NNSS-SPE Line 4 site 28
L4028	CHZ	3531	1024 9004	37.1483	-116.1053	1.3550	NNSS-SPE Line 4 site 28
L4028	CH1	3532	1024 9004	37.1483	-116.1053	1.3550	NNSS-SPE Line 4 site 28
L4028	CH2	3533	1024 9004	37.1483	-116.1053	1.3550	NNSS-SPE Line 4 site 28
L4028	CHZ	3534	1024 9004	37.1483	-116.1053	1.3550	NNSS-SPE Line 4 site 28
L4028	CHN	3535	1024 9004	37.1483	-116.1053	1.3550	NNSS-SPE Line 4 site 28
L4028	CHE	3536	1024 9004	37.1483	-116.1053	1.3550	NNSS-SPE Line 4 site 28
L4028	CHZ	3537	1024 B3D6	37.1483	-116.1053	1.3550	NNSS-SPE Line 4 site 28
L4028	CHN	3538	1024 B3D6	37.1483	-116.1053	1.3550	NNSS-SPE Line 4 site 28

Appendix 7
Selected Metadata for SPE-6 Surface Stations

Station ID	Channel	Channel ID	Description	Estimated Latitude	Estimated Longitude	Elevation km (amsl)	Location
L4028	CHE	3539	1024 B3D6	37.1483	-116.1053	1.3550	NNSS-SPE Line 4 site 28
L4028	CHZ	3540	1024 B3C5	37.1483	-116.1053	1.3550	NNSS-SPE Line 4 site 28
L4028	CHN	3541	1024 B3C5	37.1483	-116.1053	1.3550	NNSS-SPE Line 4 site 28
L4028	CHE	3542	1024 B3C5	37.1483	-116.1053	1.3550	NNSS-SPE Line 4 site 28
L4028	CHZ	3543	1024 B3C5	37.1483	-116.1053	1.3550	NNSS-SPE Line 4 site 28
L4028	CHN	3544	1024 B3C5	37.1483	-116.1053	1.3550	NNSS-SPE Line 4 site 28
L4028	CHE	3545	1024 B3C5	37.1483	-116.1053	1.3550	NNSS-SPE Line 4 site 28
L4028	CHZ	3546	1024 B3C5	37.1483	-116.1053	1.3550	NNSS-SPE Line 4 site 28
L4028	CHN	3547	1024 B3C5	37.1483	-116.1053	1.3550	NNSS-SPE Line 4 site 28
L4028	CHE	3548	1024 B3C5	37.1483	-116.1053	1.3550	NNSS-SPE Line 4 site 28
L4030	CHZ	3549	559 9001	37.1159	-116.1250	1.3780	NNSS-SPE Line 4 site 30
L4030	CH1	3550	559 9001	37.1159	-116.1250	1.3780	NNSS-SPE Line 4 site 30
L4030	CH2	3551	559 9001	37.1159	-116.1250	1.3780	NNSS-SPE Line 4 site 30
L4030	CHZ	3552	559 9001	37.1159	-116.1250	1.3780	NNSS-SPE Line 4 site 30
L4030	CH1	3553	559 9001	37.1159	-116.1250	1.3780	NNSS-SPE Line 4 site 30
L4030	CH2	3554	559 9001	37.1159	-116.1250	1.3780	NNSS-SPE Line 4 site 30
L4030	CHZ	3555	559 9001	37.1159	-116.1250	1.3780	NNSS-SPE Line 4 site 30
L4030	CH1	3556	559 9001	37.1159	-116.1250	1.3780	NNSS-SPE Line 4 site 30
L4030	CH2	3557	559 9001	37.1159	-116.1250	1.3780	NNSS-SPE Line 4 site 30
L4030	CHZ	3558	1015 9001	37.1159	-116.1250	1.3780	NNSS-SPE Line 4 site 30
L4030	CH1	3559	1015 9001	37.1159	-116.1250	1.3780	NNSS-SPE Line 4 site 30
L4030	CH2	3560	1015 9001	37.1159	-116.1250	1.3780	NNSS-SPE Line 4 site 30
L4030	CHZ	3561	1015 9001	37.1159	-116.1250	1.3780	NNSS-SPE Line 4 site 30
L4030	CHN	3562	1015 9001	37.1159	-116.1250	1.3780	NNSS-SPE Line 4 site 30
L4030	CHE	3563	1015 9001	37.1159	-116.1250	1.3780	NNSS-SPE Line 4 site 30
L4030	CHZ	3564	1015 9498	37.1159	-116.1250	1.3780	NNSS-SPE Line 4 site 30
L4030	CHN	3565	1015 9498	37.1159	-116.1250	1.3780	NNSS-SPE Line 4 site 30
L4030	CHE	3566	1015 9498	37.1159	-116.1250	1.3780	NNSS-SPE Line 4 site 30
L4030	CHZ	3567	1015 B3D1	37.1159	-116.1250	1.3780	NNSS-SPE Line 4 site 30
L4030	CHN	3568	1015 B3D1	37.1159	-116.1250	1.3780	NNSS-SPE Line 4 site 30
L4030	CHE	3569	1015 B3D1	37.1159	-116.1250	1.3780	NNSS-SPE Line 4 site 30

Appendix 7
Selected Metadata for SPE-6 Surface Stations

Station ID	Channel	Channel ID	Description	Estimated Latitude	Estimated Longitude	Elevation km (amsl)	Location
L4030	CHZ	3570	1015 B3D1	37.1159	-116.1250	1.3780	NNSS-SPE Line 4 site 30
L4030	CHN	3571	1015 B3D1	37.1159	-116.1250	1.3780	NNSS-SPE Line 4 site 30
L4030	CHE	3572	1015 B3D1	37.1159	-116.1250	1.3780	NNSS-SPE Line 4 site 30
L4030	CHZ	3573	1446 B3D1	37.1159	-116.1250	1.3780	NNSS-SPE Line 4 site 30
L4030	CHN	3574	1446 B3D1	37.1159	-116.1250	1.3780	NNSS-SPE Line 4 site 30
L4030	CHE	3575	1446 B3D1	37.1159	-116.1250	1.3780	NNSS-SPE Line 4 site 30
L4030	CHZ	3576	1446 B3D1	37.1159	-116.1250	1.3780	NNSS-SPE Line 4 site 30
L4030	CHN	3577	1446 B3D1	37.1159	-116.1250	1.3780	NNSS-SPE Line 4 site 30
L4030	CHE	3578	1446 B3D1	37.1159	-116.1250	1.3780	NNSS-SPE Line 4 site 30
L4032	CHZ	3579	591 AF06	37.0835	-116.1447	1.4210	NNSS-SPE Line 4 site 32
L4032	CH1	3580	591 AF06	37.0835	-116.1447	1.4210	NNSS-SPE Line 4 site 32
L4032	CH2	3581	591 AF06	37.0835	-116.1447	1.4210	NNSS-SPE Line 4 site 32
L4032	CHZ	3582	591 AF06	37.0835	-116.1447	1.4210	NNSS-SPE Line 4 site 32
L4032	CH1	3583	591 AF06	37.0835	-116.1447	1.4210	NNSS-SPE Line 4 site 32
L4032	CH2	3584	591 AF06	37.0835	-116.1447	1.4210	NNSS-SPE Line 4 site 32
L4032	CHZ	3585	1030 AF06	37.0835	-116.1447	1.4210	NNSS-SPE Line 4 site 32
L4032	CH1	3586	1030 AF06	37.0835	-116.1447	1.4210	NNSS-SPE Line 4 site 32
L4032	CH2	3587	1030 AF06	37.0835	-116.1447	1.4210	NNSS-SPE Line 4 site 32
L4032	CHZ	3588	1030 9D94	37.0835	-116.1447	1.4210	NNSS-SPE Line 4 site 32
L4032	CH1	3589	1030 9D94	37.0835	-116.1447	1.4210	NNSS-SPE Line 4 site 32
L4032	CH2	3590	1030 9D94	37.0835	-116.1447	1.4210	NNSS-SPE Line 4 site 32
L4032	CHZ	3591	1030 9D94	37.0835	-116.1447	1.4210	NNSS-SPE Line 4 site 32
L4032	CHN	3592	1030 9D94	37.0835	-116.1447	1.4210	NNSS-SPE Line 4 site 32
L4032	CHE	3593	1030 9D94	37.0835	-116.1447	1.4210	NNSS-SPE Line 4 site 32
L4032	CHZ	3594	1030 9D94	37.0835	-116.1447	1.4210	NNSS-SPE Line 4 site 32
L4032	CHN	3595	1030 9D94	37.0835	-116.1447	1.4210	NNSS-SPE Line 4 site 32
L4032	CHE	3596	1030 9D94	37.0835	-116.1447	1.4210	NNSS-SPE Line 4 site 32
L4032	CHZ	3597	1030 9D94	37.0835	-116.1447	1.4210	NNSS-SPE Line 4 site 32
L4032	CHN	3598	1030 9D94	37.0835	-116.1447	1.4210	NNSS-SPE Line 4 site 32
L4032	CHE	3599	1030 9D94	37.0835	-116.1447	1.4210	NNSS-SPE Line 4 site 32
L4034	CHZ	3600	495 9221	37.0510	-116.1644	1.5680	NNSS-SPE Line 4 site 34

Appendix 7
Selected Metadata for SPE-6 Surface Stations

Station ID	Channel	Channel ID	Description	Estimated Latitude	Estimated Longitude	Elevation km (amsl)	Location
L4034	CH1	3601	495 9221	37.0510	-116.1644	1.5680	NNSS-SPE Line 4 site 34
L4034	CH2	3602	495 9221	37.0510	-116.1644	1.5680	NNSS-SPE Line 4 site 34
L4034	CHZ	3603	495 9221	37.0510	-116.1644	1.5680	NNSS-SPE Line 4 site 34
L4034	CH1	3604	495 9221	37.0510	-116.1644	1.5680	NNSS-SPE Line 4 site 34
L4034	CH2	3605	495 9221	37.0510	-116.1644	1.5680	NNSS-SPE Line 4 site 34
L4034	CHZ	3606	1009 9221	37.0510	-116.1644	1.5680	NNSS-SPE Line 4 site 34
L4034	CH1	3607	1009 9221	37.0510	-116.1644	1.5680	NNSS-SPE Line 4 site 34
L4034	CH2	3608	1009 9221	37.0510	-116.1644	1.5680	NNSS-SPE Line 4 site 34
L4034	CHZ	3609	1009 B2CA	37.0510	-116.1644	1.5680	NNSS-SPE Line 4 site 34
L4034	CH1	3610	1009 B2CA	37.0510	-116.1644	1.5680	NNSS-SPE Line 4 site 34
L4034	CH2	3611	1009 B2CA	37.0510	-116.1644	1.5680	NNSS-SPE Line 4 site 34
L4034	CHZ	3612	1009 B2CA	37.0510	-116.1644	1.5680	NNSS-SPE Line 4 site 34
L4034	CHN	3613	1009 B2CA	37.0510	-116.1644	1.5680	NNSS-SPE Line 4 site 34
L4034	CHE	3614	1009 B2CA	37.0510	-116.1644	1.5680	NNSS-SPE Line 4 site 34
L4036	CHZ	3615	505 AF0C	37.0186	-116.1841	1.5270	NNSS-SPE Line 4 site 36
L4036	CH1	3616	505 AF0C	37.0186	-116.1841	1.5270	NNSS-SPE Line 4 site 36
L4036	CH2	3617	505 AF0C	37.0186	-116.1841	1.5270	NNSS-SPE Line 4 site 36
L4036	CHZ	3618	505 AF0C	37.0186	-116.1841	1.5270	NNSS-SPE Line 4 site 36
L4036	CH1	3619	505 AF0C	37.0186	-116.1841	1.5270	NNSS-SPE Line 4 site 36
L4036	CH2	3620	505 AF0C	37.0186	-116.1841	1.5270	NNSS-SPE Line 4 site 36
L4036	CHZ	3621	1029 AF0C	37.0186	-116.1841	1.5270	NNSS-SPE Line 4 site 36
L4036	CH1	3622	1029 AF0C	37.0186	-116.1841	1.5270	NNSS-SPE Line 4 site 36
L4036	CH2	3623	1029 AF0C	37.0186	-116.1841	1.5270	NNSS-SPE Line 4 site 36
L4036	CHZ	3624	1029 AF0C	37.0186	-116.1841	1.5270	NNSS-SPE Line 4 site 36
L4036	CHN	3625	1029 AF0C	37.0186	-116.1841	1.5270	NNSS-SPE Line 4 site 36
L4036	CHE	3626	1029 AF0C	37.0186	-116.1841	1.5270	NNSS-SPE Line 4 site 36
L4036	CHZ	3627	1029 B3D9	37.0186	-116.1841	1.5270	NNSS-SPE Line 4 site 36
L4036	CHN	3628	1029 B3D9	37.0186	-116.1841	1.5270	NNSS-SPE Line 4 site 36
L4036	CHE	3629	1029 B3D9	37.0186	-116.1841	1.5270	NNSS-SPE Line 4 site 36
L4036	CHZ	3630	1029 B3D9	37.0186	-116.1841	1.5270	NNSS-SPE Line 4 site 36
L4036	CHN	3631	1029 B3D9	37.0186	-116.1841	1.5270	NNSS-SPE Line 4 site 36

Appendix 7
Selected Metadata for SPE-6 Surface Stations

Station ID	Channel	Channel ID	Description	Estimated Latitude	Estimated Longitude	Elevation km (amsl)	Location
L4036	CHE	3632	1029 B3D9	37.0186	-116.1841	1.5270	NNSS-SPE Line 4 site 36
L4036	CHZ	3633	1029 B3D9	37.0186	-116.1841	1.5270	NNSS-SPE Line 4 site 36
L4036	CHN	3634	1029 B3D9	37.0186	-116.1841	1.5270	NNSS-SPE Line 4 site 36
L4036	CHE	3635	1029 B3D9	37.0186	-116.1841	1.5270	NNSS-SPE Line 4 site 36
L4150	CNZ	3636	172 D194	37.2199	-116.0616	1.4954	NNSS-SPE Line 4 150m
L4150	CNR	3637	172 D194	37.2199	-116.0616	1.4954	NNSS-SPE Line 4 150m
L4150	CNT	3638	172 D194	37.2199	-116.0616	1.4954	NNSS-SPE Line 4 150m
L4150	CNZ	3639	172 D194	37.2199	-116.0616	1.4954	NNSS-SPE Line 4 150m
L4150	CNR	3640	172 D194	37.2199	-116.0616	1.4954	NNSS-SPE Line 4 150m
L4150	CNT	3641	172 D194	37.2199	-116.0616	1.4954	NNSS-SPE Line 4 150m
L460	CNZ	3642	5034 D196	37.2207	-116.0612	1.4954	NNSS-SPE Line 4 60m
L460	CNR	3643	5034 D196	37.2207	-116.0612	1.4954	NNSS-SPE Line 4 60m
L460	CNT	3644	5034 D196	37.2207	-116.0612	1.4954	NNSS-SPE Line 4 60m
L460	CNZ	3645	5034 D196	37.2207	-116.0612	1.4954	NNSS-SPE Line 4 60m
L460	CNR	3646	5034 D196	37.2207	-116.0612	1.4954	NNSS-SPE Line 4 60m
L460	CNT	3647	5034 D196	37.2207	-116.0612	1.4954	NNSS-SPE Line 4 60m
L5001	CLZ	3648	54 90B1	37.2214	-116.0620	1.5390	NNSS-SPE Line 5 site 01
L5001	CLZ	3649	54 92D3	37.2214	-116.0620	1.5390	NNSS-SPE Line 5 site 01
L5001	CLZ	3650	54 B3D9	37.2214	-116.0620	1.5390	NNSS-SPE Line 5 site 01
L5001	CLZ	3651	54 B3D9	37.2214	-116.0620	1.5390	NNSS-SPE Line 5 site 01
L5001	CLZ	3652	54 B3D9	37.2214	-116.0620	1.5390	NNSS-SPE Line 5 site 01
L5001	CLZ	3653	54 B3C6	37.2214	-116.0620	1.5390	NNSS-SPE Line 5 site 01
L5001	CLR	3654	54 B3C6	37.2214	-116.0620	1.5390	NNSS-SPE Line 5 site 01
L5001	CLT	3655	54 B3C6	37.2214	-116.0620	1.5390	NNSS-SPE Line 5 site 01
L5001	CLZ	3656	54 B3C6	37.2214	-116.0620	1.5390	NNSS-SPE Line 5 site 01
L5001	CLR	3657	54 B3C6	37.2214	-116.0620	1.5390	NNSS-SPE Line 5 site 01
L5001	CLT	3658	54 B3C6	37.2214	-116.0620	1.5390	NNSS-SPE Line 5 site 01
L5001	CLZ	3659	54 B3C6	37.2214	-116.0620	1.5390	NNSS-SPE Line 5 site 01
L5001	CLR	3660	54 B3C6	37.2214	-116.0620	1.5390	NNSS-SPE Line 5 site 01
L5001	CLT	3661	54 B3C6	37.2214	-116.0620	1.5390	NNSS-SPE Line 5 site 01
L5001	CLZ	3662	54 B3C6	37.2214	-116.0620	1.5390	NNSS-SPE Line 5 site 01

Appendix 7
Selected Metadata for SPE-6 Surface Stations

Station ID	Channel	Channel ID	Description	Estimated Latitude	Estimated Longitude	Elevation km (amsl)	Location
L5001	CLR	3663	54 B3C6	37.2214	-116.0620	1.5390	NNSS-SPE Line 5 site 01
L5001	CLT	3664	54 B3C6	37.2214	-116.0620	1.5390	NNSS-SPE Line 5 site 01
L5001	CLZ	3665	54 D1A5	37.2214	-116.0620	1.5390	NNSS-SPE Line 5 site 01
L5001	CLR	3666	54 D1A5	37.2214	-116.0620	1.5390	NNSS-SPE Line 5 site 01
L5001	CLT	3667	54 D1A5	37.2214	-116.0620	1.5390	NNSS-SPE Line 5 site 01
L5001	CNZ	3668	5016 D1A5	37.2214	-116.0620	1.5390	NNSS-SPE Line 5 site 01
L5001	CNR	3669	5016 D1A5	37.2214	-116.0620	1.5390	NNSS-SPE Line 5 site 01
L5001	CNT	3670	5016 D1A5	37.2214	-116.0620	1.5390	NNSS-SPE Line 5 site 01
L5001	CLZ	3671	54 D1A5	37.2214	-116.0620	1.5390	NNSS-SPE Line 5 site 01
L5001	CLR	3672	54 D1A5	37.2214	-116.0620	1.5390	NNSS-SPE Line 5 site 01
L5001	CLT	3673	54 D1A5	37.2214	-116.0620	1.5390	NNSS-SPE Line 5 site 01
L5001	CNZ	3674	5016 D1A5	37.2214	-116.0620	1.5390	NNSS-SPE Line 5 site 01
L5001	CNR	3675	5016 D1A5	37.2214	-116.0620	1.5390	NNSS-SPE Line 5 site 01
L5001	CNT	3676	5016 D1A5	37.2214	-116.0620	1.5390	NNSS-SPE Line 5 site 01
L5001	CLZ	3677	54 D1A5	37.2214	-116.0620	1.5390	NNSS-SPE Line 5 site 01
L5001	CLR	3678	54 D1A5	37.2214	-116.0620	1.5390	NNSS-SPE Line 5 site 01
L5001	CLT	3679	54 D1A5	37.2214	-116.0620	1.5390	NNSS-SPE Line 5 site 01
L5001	CLZ	3680	54 D1A5	37.2214	-116.0620	1.5390	NNSS-SPE Line 5 site 01
L5001	CLR	3681	54 D1A5	37.2214	-116.0620	1.5390	NNSS-SPE Line 5 site 01
L5001	CLT	3682	54 D1A5	37.2214	-116.0620	1.5390	NNSS-SPE Line 5 site 01
L5001	CNZ	3683	5016 D1A5	37.2214	-116.0620	1.5390	NNSS-SPE Line 5 site 01
L5001	CNR	3684	5016 D1A5	37.2214	-116.0620	1.5390	NNSS-SPE Line 5 site 01
L5001	CNT	3685	5016 D1A5	37.2214	-116.0620	1.5390	NNSS-SPE Line 5 site 01
L5001	CLZ	3686	54 D1A5	37.2214	-116.0620	1.5390	NNSS-SPE Line 5 site 01
L5001	CLR	3687	54 D1A5	37.2214	-116.0620	1.5390	NNSS-SPE Line 5 site 01
L5001	CLT	3688	54 D1A5	37.2214	-116.0620	1.5390	NNSS-SPE Line 5 site 01
L5001	CNZ	3689	5016 D1A5	37.2214	-116.0620	1.5390	NNSS-SPE Line 5 site 01
L5001	CNR	3690	5016 D1A5	37.2214	-116.0620	1.5390	NNSS-SPE Line 5 site 01
L5001	CNT	3691	5016 D1A5	37.2214	-116.0620	1.5390	NNSS-SPE Line 5 site 01
L5002	CLZ	3692	37 90B1	37.2216	-116.0631	1.5560	NNSS-SPE Line 5 site 02
L5002	CLZ	3693	37 92D3	37.2216	-116.0631	1.5560	NNSS-SPE Line 5 site 02

Appendix 7
Selected Metadata for SPE-6 Surface Stations

Station ID	Channel	Channel ID	Description	Estimated Latitude	Estimated Longitude	Elevation km (amsl)	Location
L5002	CLZ	3694	37 B3D9	37.2216	-116.0631	1.5560	NNSS-SPE Line 5 site 02
L5002	CLZ	3695	37 B3D9	37.2216	-116.0631	1.5560	NNSS-SPE Line 5 site 02
L5002	CLZ	3696	37 B3D9	37.2216	-116.0631	1.5560	NNSS-SPE Line 5 site 02
L5002	CLZ	3697	37 B3C6	37.2216	-116.0631	1.5560	NNSS-SPE Line 5 site 02
L5002	CLR	3698	37 B3C6	37.2216	-116.0631	1.5560	NNSS-SPE Line 5 site 02
L5002	CLT	3699	37 B3C6	37.2216	-116.0631	1.5560	NNSS-SPE Line 5 site 02
L5002	CLZ	3700	37 B3C6	37.2216	-116.0631	1.5560	NNSS-SPE Line 5 site 02
L5002	CLR	3701	37 B3C6	37.2216	-116.0631	1.5560	NNSS-SPE Line 5 site 02
L5002	CLT	3702	37 B3C6	37.2216	-116.0631	1.5560	NNSS-SPE Line 5 site 02
L5002	CLZ	3703	37 B3C6	37.2216	-116.0631	1.5560	NNSS-SPE Line 5 site 02
L5002	CLR	3704	37 B3C6	37.2216	-116.0631	1.5560	NNSS-SPE Line 5 site 02
L5002	CLT	3705	37 B3C6	37.2216	-116.0631	1.5560	NNSS-SPE Line 5 site 02
L5002	CLZ	3706	225358-18 B3C6	37.2216	-116.0631	1.5560	NNSS-SPE Line 5 site 02
L5002	CLR	3707	225358-18 B3C6	37.2216	-116.0631	1.5560	NNSS-SPE Line 5 site 02
L5002	CLT	3708	225358-18 B3C6	37.2216	-116.0631	1.5560	NNSS-SPE Line 5 site 02
L5002	CNZ	3709	170 B3C6	37.2216	-116.0631	1.5560	NNSS-SPE Line 5 site 02
L5002	CNR	3710	170 B3C6	37.2216	-116.0631	1.5560	NNSS-SPE Line 5 site 02
L5002	CNT	3711	170 B3C6	37.2216	-116.0631	1.5560	NNSS-SPE Line 5 site 02
L5002	CLZ	3712	225358-18 B3C6	37.2216	-116.0631	1.5560	NNSS-SPE Line 5 site 02
L5002	CLR	3713	225358-18 B3C6	37.2216	-116.0631	1.5560	NNSS-SPE Line 5 site 02
L5002	CLT	3714	225358-18 B3C6	37.2216	-116.0631	1.5560	NNSS-SPE Line 5 site 02
L5002	CNZ	3715	170 B3C6	37.2216	-116.0631	1.5560	NNSS-SPE Line 5 site 02
L5002	CNR	3716	170 B3C6	37.2216	-116.0631	1.5560	NNSS-SPE Line 5 site 02
L5002	CNT	3717	170 B3C6	37.2216	-116.0631	1.5560	NNSS-SPE Line 5 site 02
L5002	CLZ	3718	225358-18 B3C6	37.2216	-116.0631	1.5560	NNSS-SPE Line 5 site 02
L5002	CLR	3719	225358-18 B3C6	37.2216	-116.0631	1.5560	NNSS-SPE Line 5 site 02
L5002	CLT	3720	225358-18 B3C6	37.2216	-116.0631	1.5560	NNSS-SPE Line 5 site 02
L5002	CLZ	3721	225358-18 B3C6	37.2216	-116.0631	1.5560	NNSS-SPE Line 5 site 02
L5002	CLR	3722	225358-18 B3C6	37.2216	-116.0631	1.5560	NNSS-SPE Line 5 site 02
L5002	CLT	3723	225358-18 B3C6	37.2216	-116.0631	1.5560	NNSS-SPE Line 5 site 02
L5002	CNZ	3724	170 B3C6	37.2216	-116.0631	1.5560	NNSS-SPE Line 5 site 02

Appendix 7
Selected Metadata for SPE-6 Surface Stations

Station ID	Channel	Channel ID	Description	Estimated Latitude	Estimated Longitude	Elevation km (amsl)	Location
L5002	CNR	3725	170 B3C6	37.2216	-116.0631	1.5560	NNSS-SPE Line 5 site 02
L5002	CNT	3726	170 B3C6	37.2216	-116.0631	1.5560	NNSS-SPE Line 5 site 02
L5002	CLZ	3727	225358-18 B3C6	37.2216	-116.0631	1.5560	NNSS-SPE Line 5 site 02
L5002	CLR	3728	225358-18 B3C6	37.2216	-116.0631	1.5560	NNSS-SPE Line 5 site 02
L5002	CLT	3729	225358-18 B3C6	37.2216	-116.0631	1.5560	NNSS-SPE Line 5 site 02
L5002	CNZ	3730	170 B3C6	37.2216	-116.0631	1.5560	NNSS-SPE Line 5 site 02
L5002	CNR	3731	170 B3C6	37.2216	-116.0631	1.5560	NNSS-SPE Line 5 site 02
L5002	CNT	3732	170 B3C6	37.2216	-116.0631	1.5560	NNSS-SPE Line 5 site 02
L5002	CLZ	3733	90 B3C6	37.2216	-116.0631	1.5560	NNSS-SPE Line 5 site 02
L5002	CLR	3734	90 B3C6	37.2216	-116.0631	1.5560	NNSS-SPE Line 5 site 02
L5002	CLT	3735	90 B3C6	37.2216	-116.0631	1.5560	NNSS-SPE Line 5 site 02
L5003	CLZ	3736	119 90B1	37.2218	-116.0642	1.5770	NNSS-SPE Line 5 site 03
L5003	CLZ	3737	119 92D3	37.2218	-116.0642	1.5770	NNSS-SPE Line 5 site 03
L5003	CLZ	3738	119 B3D9	37.2218	-116.0642	1.5770	NNSS-SPE Line 5 site 03
L5003	CLZ	3739	119 B3D9	37.2218	-116.0642	1.5770	NNSS-SPE Line 5 site 03
L5003	CLZ	3740	119 B3D9	37.2218	-116.0642	1.5770	NNSS-SPE Line 5 site 03
L5003	CLZ	3741	119 B3D9	37.2218	-116.0642	1.5770	NNSS-SPE Line 5 site 03
L5003	CLR	3742	119 B3D9	37.2218	-116.0642	1.5770	NNSS-SPE Line 5 site 03
L5003	CLT	3743	119 B3D9	37.2218	-116.0642	1.5770	NNSS-SPE Line 5 site 03
L5003	CLZ	3744	119 B3D9	37.2218	-116.0642	1.5770	NNSS-SPE Line 5 site 03
L5003	CLR	3745	119 B3D9	37.2218	-116.0642	1.5770	NNSS-SPE Line 5 site 03
L5003	CLT	3746	119 B3D9	37.2218	-116.0642	1.5770	NNSS-SPE Line 5 site 03
L5003	CLZ	3747	119 B3D6	37.2218	-116.0642	1.5770	NNSS-SPE Line 5 site 03
L5003	CLR	3748	119 B3D6	37.2218	-116.0642	1.5770	NNSS-SPE Line 5 site 03
L5003	CLT	3749	119 B3D6	37.2218	-116.0642	1.5770	NNSS-SPE Line 5 site 03
L5003	CLZ	3750	119 B3D6	37.2218	-116.0642	1.5770	NNSS-SPE Line 5 site 03
L5003	CLR	3751	119 B3D6	37.2218	-116.0642	1.5770	NNSS-SPE Line 5 site 03
L5003	CLT	3752	119 B3D6	37.2218	-116.0642	1.5770	NNSS-SPE Line 5 site 03
L5003	CLZ	3753	113 D197	37.2218	-116.0642	1.5770	NNSS-SPE Line 5 site 03
L5003	CLR	3754	113 D197	37.2218	-116.0642	1.5770	NNSS-SPE Line 5 site 03
L5003	CLT	3755	113 D197	37.2218	-116.0642	1.5770	NNSS-SPE Line 5 site 03

Appendix 7
Selected Metadata for SPE-6 Surface Stations

Station ID	Channel	Channel ID	Description	Estimated Latitude	Estimated Longitude	Elevation km (amsl)	Location
L5003	CNZ	3756	112 D197	37.2218	-116.0642	1.5770	NNSS-SPE Line 5 site 03
L5003	CNR	3757	112 D197	37.2218	-116.0642	1.5770	NNSS-SPE Line 5 site 03
L5003	CNT	3758	112 D197	37.2218	-116.0642	1.5770	NNSS-SPE Line 5 site 03
L5003	CLZ	3759	113 D197	37.2218	-116.0642	1.5770	NNSS-SPE Line 5 site 03
L5003	CLR	3760	113 D197	37.2218	-116.0642	1.5770	NNSS-SPE Line 5 site 03
L5003	CLT	3761	113 D197	37.2218	-116.0642	1.5770	NNSS-SPE Line 5 site 03
L5003	CNZ	3762	112 D197	37.2218	-116.0642	1.5770	NNSS-SPE Line 5 site 03
L5003	CNR	3763	112 D197	37.2218	-116.0642	1.5770	NNSS-SPE Line 5 site 03
L5003	CNT	3764	112 D197	37.2218	-116.0642	1.5770	NNSS-SPE Line 5 site 03
L5003	CLZ	3765	113 D197	37.2218	-116.0642	1.5770	NNSS-SPE Line 5 site 03
L5003	CLR	3766	113 D197	37.2218	-116.0642	1.5770	NNSS-SPE Line 5 site 03
L5003	CLT	3767	113 D197	37.2218	-116.0642	1.5770	NNSS-SPE Line 5 site 03
L5003	CLZ	3768	113 D197	37.2218	-116.0642	1.5770	NNSS-SPE Line 5 site 03
L5003	CLR	3769	113 D197	37.2218	-116.0642	1.5770	NNSS-SPE Line 5 site 03
L5003	CLT	3770	113 D197	37.2218	-116.0642	1.5770	NNSS-SPE Line 5 site 03
L5003	CNZ	3771	112 D197	37.2218	-116.0642	1.5770	NNSS-SPE Line 5 site 03
L5003	CNR	3772	112 D197	37.2218	-116.0642	1.5770	NNSS-SPE Line 5 site 03
L5003	CNT	3773	112 D197	37.2218	-116.0642	1.5770	NNSS-SPE Line 5 site 03
L5003	CLZ	3774	113 D197	37.2218	-116.0642	1.5770	NNSS-SPE Line 5 site 03
L5003	CLR	3775	113 D197	37.2218	-116.0642	1.5770	NNSS-SPE Line 5 site 03
L5003	CLT	3776	113 D197	37.2218	-116.0642	1.5770	NNSS-SPE Line 5 site 03
L5003	CNZ	3777	112 D197	37.2218	-116.0642	1.5770	NNSS-SPE Line 5 site 03
L5003	CNR	3778	112 D197	37.2218	-116.0642	1.5770	NNSS-SPE Line 5 site 03
L5003	CNT	3779	112 D197	37.2218	-116.0642	1.5770	NNSS-SPE Line 5 site 03
L5004	CLZ	3780	17 90B1	37.2220	-116.0653	1.6220	NNSS-SPE Line 5 site 04
L5004	CLR	3781	17 90B1	37.2220	-116.0653	1.6220	NNSS-SPE Line 5 site 04
L5004	CLT	3782	17 90B1	37.2220	-116.0653	1.6220	NNSS-SPE Line 5 site 04
L5004	CLZ	3783	17 92D3	37.2220	-116.0653	1.6220	NNSS-SPE Line 5 site 04
L5004	CLR	3784	17 92D3	37.2220	-116.0653	1.6220	NNSS-SPE Line 5 site 04
L5004	CLT	3785	17 92D3	37.2220	-116.0653	1.6220	NNSS-SPE Line 5 site 04
L5004	CLZ	3786	17 B3D9	37.2220	-116.0653	1.6220	NNSS-SPE Line 5 site 04

Appendix 7
Selected Metadata for SPE-6 Surface Stations

Station ID	Channel	Channel ID	Description	Estimated Latitude	Estimated Longitude	Elevation km (amsl)	Location
L5004	CLR	3787	17 B3D9	37.2220	-116.0653	1.6220	NNSS-SPE Line 5 site 04
L5004	CLT	3788	17 B3D9	37.2220	-116.0653	1.6220	NNSS-SPE Line 5 site 04
L5004	CLZ	3789	17 B3D9	37.2220	-116.0653	1.6220	NNSS-SPE Line 5 site 04
L5004	CLR	3790	17 B3D9	37.2220	-116.0653	1.6220	NNSS-SPE Line 5 site 04
L5004	CLT	3791	17 B3D9	37.2220	-116.0653	1.6220	NNSS-SPE Line 5 site 04
L5004	CLZ	3792	17 B3D9	37.2220	-116.0653	1.6220	NNSS-SPE Line 5 site 04
L5004	CLR	3793	17 B3D9	37.2220	-116.0653	1.6220	NNSS-SPE Line 5 site 04
L5004	CLT	3794	17 B3D9	37.2220	-116.0653	1.6220	NNSS-SPE Line 5 site 04
L5004	CLZ	3795	17 B3D9	37.2220	-116.0653	1.6220	NNSS-SPE Line 5 site 04
L5004	CLR	3796	17 B3D9	37.2220	-116.0653	1.6220	NNSS-SPE Line 5 site 04
L5004	CLT	3797	17 B3D9	37.2220	-116.0653	1.6220	NNSS-SPE Line 5 site 04
L5004	CLZ	3798	17 B3D9	37.2220	-116.0653	1.6220	NNSS-SPE Line 5 site 04
L5004	CLR	3799	17 B3D9	37.2220	-116.0653	1.6220	NNSS-SPE Line 5 site 04
L5004	CLT	3800	17 B3D9	37.2220	-116.0653	1.6220	NNSS-SPE Line 5 site 04
L5004	CLZ	3801	17 B3D6	37.2220	-116.0653	1.6220	NNSS-SPE Line 5 site 04
L5004	CLR	3802	17 B3D6	37.2220	-116.0653	1.6220	NNSS-SPE Line 5 site 04
L5004	CLT	3803	17 B3D6	37.2220	-116.0653	1.6220	NNSS-SPE Line 5 site 04
L5004	CLZ	3804	17 B3D6	37.2220	-116.0653	1.6220	NNSS-SPE Line 5 site 04
L5004	CLR	3805	17 B3D6	37.2220	-116.0653	1.6220	NNSS-SPE Line 5 site 04
L5004	CLT	3806	17 B3D6	37.2220	-116.0653	1.6220	NNSS-SPE Line 5 site 04
L5004	CLZ	3807	17 B3D6	37.2220	-116.0653	1.6220	NNSS-SPE Line 5 site 04
L5004	CLR	3808	17 B3D6	37.2220	-116.0653	1.6220	NNSS-SPE Line 5 site 04
L5004	CLT	3809	17 B3D6	37.2220	-116.0653	1.6220	NNSS-SPE Line 5 site 04
L5004	CLZ	3810	17 B3D6	37.2220	-116.0653	1.6220	NNSS-SPE Line 5 site 04
L5004	CLR	3811	17 B3D6	37.2220	-116.0653	1.6220	NNSS-SPE Line 5 site 04
L5004	CLT	3812	17 B3D6	37.2220	-116.0653	1.6220	NNSS-SPE Line 5 site 04
L5004	CLZ	3813	17 B3D6	37.2220	-116.0653	1.6220	NNSS-SPE Line 5 site 04
L5004	CLR	3814	17 B3D6	37.2220	-116.0653	1.6220	NNSS-SPE Line 5 site 04
L5004	CLT	3815	17 B3D6	37.2220	-116.0653	1.6220	NNSS-SPE Line 5 site 04
L5004	CLZ	3816	37 B3D6	37.2220	-116.0653	1.6220	NNSS-SPE Line 5 site 04
L5004	CLR	3817	37 B3D6	37.2220	-116.0653	1.6220	NNSS-SPE Line 5 site 04

Appendix 7
Selected Metadata for SPE-6 Surface Stations

Station ID	Channel	Channel ID	Description	Estimated Latitude	Estimated Longitude	Elevation km (amsl)	Location
L5004	CLT	3818	37 B3D6	37.2220	-116.0653	1.6220	NNSS-SPE Line 5 site 04
L5005	CLZ	3819	59 9DB2	37.2222	-116.0664	1.6410	NNSS-SPE Line 5 site 05
L5005	CLZ	3820	59 9DB2	37.2222	-116.0664	1.6410	NNSS-SPE Line 5 site 05
L5005	CLZ	3821	59 9DB2	37.2222	-116.0664	1.6410	NNSS-SPE Line 5 site 05
L5005	CLZ	3822	59 B2E3	37.2222	-116.0664	1.6410	NNSS-SPE Line 5 site 05
L5005	CLR	3823	59 B2E3	37.2222	-116.0664	1.6410	NNSS-SPE Line 5 site 05
L5005	CLT	3824	59 B2E3	37.2222	-116.0664	1.6410	NNSS-SPE Line 5 site 05
L5005	CLZ	3825	59 B2E3	37.2222	-116.0664	1.6410	NNSS-SPE Line 5 site 05
L5005	CLR	3826	59 B2E3	37.2222	-116.0664	1.6410	NNSS-SPE Line 5 site 05
L5005	CLT	3827	59 B2E3	37.2222	-116.0664	1.6410	NNSS-SPE Line 5 site 05
L5005	CLZ	3828	59 9504	37.2222	-116.0664	1.6410	NNSS-SPE Line 5 site 05
L5005	CLR	3829	59 9504	37.2222	-116.0664	1.6410	NNSS-SPE Line 5 site 05
L5005	CLT	3830	59 9504	37.2222	-116.0664	1.6410	NNSS-SPE Line 5 site 05
L5005	CLZ	3831	59 9504	37.2222	-116.0664	1.6410	NNSS-SPE Line 5 site 05
L5005	CLR	3832	59 9504	37.2222	-116.0664	1.6410	NNSS-SPE Line 5 site 05
L5005	CLT	3833	59 9504	37.2222	-116.0664	1.6410	NNSS-SPE Line 5 site 05
L5005	CLZ	3834	59 9504	37.2222	-116.0664	1.6410	NNSS-SPE Line 5 site 05
L5005	CLR	3835	59 9504	37.2222	-116.0664	1.6410	NNSS-SPE Line 5 site 05
L5005	CLT	3836	59 9504	37.2222	-116.0664	1.6410	NNSS-SPE Line 5 site 05
L5005	CLZ	3837	59 9504	37.2222	-116.0664	1.6410	NNSS-SPE Line 5 site 05
L5005	CLR	3838	59 9504	37.2222	-116.0664	1.6410	NNSS-SPE Line 5 site 05
L5005	CLT	3839	59 9504	37.2222	-116.0664	1.6410	NNSS-SPE Line 5 site 05
L5005	CLZ	3840	59 9504	37.2222	-116.0664	1.6410	NNSS-SPE Line 5 site 05
L5005	CLR	3841	59 9504	37.2222	-116.0664	1.6410	NNSS-SPE Line 5 site 05
L5005	CLT	3842	59 9504	37.2222	-116.0664	1.6410	NNSS-SPE Line 5 site 05
L5005	CLZ	3843	225358-33 9504	37.2222	-116.0664	1.6410	NNSS-SPE Line 5 site 05
L5005	CLR	3844	225358-33 9504	37.2222	-116.0664	1.6410	NNSS-SPE Line 5 site 05
L5005	CLT	3845	225358-33 9504	37.2222	-116.0664	1.6410	NNSS-SPE Line 5 site 05
L5006	CLZ	3846	38 9DB2	37.2225	-116.0675	1.6190	NNSS-SPE Line 5 site 06
L5006	CLZ	3847	38 9DB2	37.2225	-116.0675	1.6190	NNSS-SPE Line 5 site 06
L5006	CLZ	3848	38 9DB2	37.2225	-116.0675	1.6190	NNSS-SPE Line 5 site 06

Appendix 7
Selected Metadata for SPE-6 Surface Stations

Station ID	Channel	Channel ID	Description	Estimated Latitude	Estimated Longitude	Elevation km (amsl)	Location
L5006	CLZ	3849	102 B2E3	37.2225	-116.0675	1.6190	NNSS-SPE Line 5 site 06
L5006	CLR	3850	102 B2E3	37.2225	-116.0675	1.6190	NNSS-SPE Line 5 site 06
L5006	CLT	3851	102 B2E3	37.2225	-116.0675	1.6190	NNSS-SPE Line 5 site 06
L5006	CLZ	3852	102 B2E3	37.2225	-116.0675	1.6190	NNSS-SPE Line 5 site 06
L5006	CLR	3853	102 B2E3	37.2225	-116.0675	1.6190	NNSS-SPE Line 5 site 06
L5006	CLT	3854	102 B2E3	37.2225	-116.0675	1.6190	NNSS-SPE Line 5 site 06
L5006	CLZ	3855	102 9504	37.2225	-116.0675	1.6190	NNSS-SPE Line 5 site 06
L5006	CLR	3856	102 9504	37.2225	-116.0675	1.6190	NNSS-SPE Line 5 site 06
L5006	CLT	3857	102 9504	37.2225	-116.0675	1.6190	NNSS-SPE Line 5 site 06
L5006	CLZ	3858	102 9504	37.2225	-116.0675	1.6190	NNSS-SPE Line 5 site 06
L5006	CLR	3859	102 9504	37.2225	-116.0675	1.6190	NNSS-SPE Line 5 site 06
L5006	CLT	3860	102 9504	37.2225	-116.0675	1.6190	NNSS-SPE Line 5 site 06
L5006	CLZ	3861	33 9504	37.2225	-116.0675	1.6190	NNSS-SPE Line 5 site 06
L5006	CLR	3862	33 9504	37.2225	-116.0675	1.6190	NNSS-SPE Line 5 site 06
L5006	CLT	3863	33 9504	37.2225	-116.0675	1.6190	NNSS-SPE Line 5 site 06
L5006	CLZ	3864	33 9504	37.2225	-116.0675	1.6190	NNSS-SPE Line 5 site 06
L5006	CLR	3865	33 9504	37.2225	-116.0675	1.6190	NNSS-SPE Line 5 site 06
L5006	CLT	3866	33 9504	37.2225	-116.0675	1.6190	NNSS-SPE Line 5 site 06
L5006	CLZ	3867	33 9504	37.2225	-116.0675	1.6190	NNSS-SPE Line 5 site 06
L5006	CLR	3868	33 9504	37.2225	-116.0675	1.6190	NNSS-SPE Line 5 site 06
L5006	CLT	3869	33 9504	37.2225	-116.0675	1.6190	NNSS-SPE Line 5 site 06
L5006	CLZ	3870	33 9504	37.2225	-116.0675	1.6190	NNSS-SPE Line 5 site 06
L5006	CLR	3871	33 9504	37.2225	-116.0675	1.6190	NNSS-SPE Line 5 site 06
L5006	CLT	3872	33 9504	37.2225	-116.0675	1.6190	NNSS-SPE Line 5 site 06
L5007	CLZ	3873	109 9DB2	37.2227	-116.0686	1.6120	NNSS-SPE Line 5 site 07
L5007	CLZ	3874	109 9DB2	37.2227	-116.0686	1.6120	NNSS-SPE Line 5 site 07
L5007	CLZ	3875	109 9DB2	37.2227	-116.0686	1.6120	NNSS-SPE Line 5 site 07
L5007	CLZ	3876	109 9DB2	37.2227	-116.0686	1.6120	NNSS-SPE Line 5 site 07
L5007	CLR	3877	109 9DB2	37.2227	-116.0686	1.6120	NNSS-SPE Line 5 site 07
L5007	CLT	3878	109 9DB2	37.2227	-116.0686	1.6120	NNSS-SPE Line 5 site 07
L5007	CLZ	3879	109 9DB2	37.2227	-116.0686	1.6120	NNSS-SPE Line 5 site 07

Appendix 7
Selected Metadata for SPE-6 Surface Stations

Station ID	Channel	Channel ID	Description	Estimated Latitude	Estimated Longitude	Elevation km (amsl)	Location
L5007	CLR	3880	109 9DB2	37.2227	-116.0686	1.6120	NNSS-SPE Line 5 site 07
L5007	CLT	3881	109 9DB2	37.2227	-116.0686	1.6120	NNSS-SPE Line 5 site 07
L5007	CLZ	3882	109 BB66	37.2227	-116.0686	1.6120	NNSS-SPE Line 5 site 07
L5007	CLR	3883	109 BB66	37.2227	-116.0686	1.6120	NNSS-SPE Line 5 site 07
L5007	CLT	3884	109 BB66	37.2227	-116.0686	1.6120	NNSS-SPE Line 5 site 07
L5007	CLZ	3885	109 BB66	37.2227	-116.0686	1.6120	NNSS-SPE Line 5 site 07
L5007	CLR	3886	109 BB66	37.2227	-116.0686	1.6120	NNSS-SPE Line 5 site 07
L5007	CLT	3887	109 BB66	37.2227	-116.0686	1.6120	NNSS-SPE Line 5 site 07
L5007	CLZ	3888	180063-04 BB66	37.2227	-116.0686	1.6120	NNSS-SPE Line 5 site 07
L5007	CLR	3889	180063-04 BB66	37.2227	-116.0686	1.6120	NNSS-SPE Line 5 site 07
L5007	CLT	3890	180063-04 BB66	37.2227	-116.0686	1.6120	NNSS-SPE Line 5 site 07
L5007	CLZ	3891	180063-04 BB66	37.2227	-116.0686	1.6120	NNSS-SPE Line 5 site 07
L5007	CLR	3892	180063-04 BB66	37.2227	-116.0686	1.6120	NNSS-SPE Line 5 site 07
L5007	CLT	3893	180063-04 BB66	37.2227	-116.0686	1.6120	NNSS-SPE Line 5 site 07
L5007	CLZ	3894	109 BB66	37.2227	-116.0686	1.6120	NNSS-SPE Line 5 site 07
L5007	CLR	3895	109 BB66	37.2227	-116.0686	1.6120	NNSS-SPE Line 5 site 07
L5007	CLT	3896	109 BB66	37.2227	-116.0686	1.6120	NNSS-SPE Line 5 site 07
L5007	CLZ	3897	180063-04 BB66	37.2227	-116.0686	1.6120	NNSS-SPE Line 5 site 07
L5007	CLR	3898	180063-04 BB66	37.2227	-116.0686	1.6120	NNSS-SPE Line 5 site 07
L5007	CLT	3899	180063-04 BB66	37.2227	-116.0686	1.6120	NNSS-SPE Line 5 site 07
L5008	CLZ	3900	102 9DB2	37.2229	-116.0696	1.5890	NNSS-SPE Line 5 site 08
L5008	CLR	3901	102 9DB2	37.2229	-116.0696	1.5890	NNSS-SPE Line 5 site 08
L5008	CLT	3902	102 9DB2	37.2229	-116.0696	1.5890	NNSS-SPE Line 5 site 08
L5008	CLZ	3903	102 9DB2	37.2229	-116.0696	1.5890	NNSS-SPE Line 5 site 08
L5008	CLR	3904	102 9DB2	37.2229	-116.0696	1.5890	NNSS-SPE Line 5 site 08
L5008	CLT	3905	102 9DB2	37.2229	-116.0696	1.5890	NNSS-SPE Line 5 site 08
L5008	CLZ	3906	102 9DB2	37.2229	-116.0696	1.5890	NNSS-SPE Line 5 site 08
L5008	CLR	3907	102 9DB2	37.2229	-116.0696	1.5890	NNSS-SPE Line 5 site 08
L5008	CLT	3908	102 9DB2	37.2229	-116.0696	1.5890	NNSS-SPE Line 5 site 08
L5008	CLZ	3909	110 9DB2	37.2229	-116.0696	1.5890	NNSS-SPE Line 5 site 08
L5008	CLR	3910	110 9DB2	37.2229	-116.0696	1.5890	NNSS-SPE Line 5 site 08

Appendix 7
Selected Metadata for SPE-6 Surface Stations

Station ID	Channel	Channel ID	Description	Estimated Latitude	Estimated Longitude	Elevation km (amsl)	Location
L5008	CLT	3911	110 9DB2	37.2229	-116.0696	1.5890	NNSS-SPE Line 5 site 08
L5008	CLZ	3912	110 9DB2	37.2229	-116.0696	1.5890	NNSS-SPE Line 5 site 08
L5008	CLR	3913	110 9DB2	37.2229	-116.0696	1.5890	NNSS-SPE Line 5 site 08
L5008	CLT	3914	110 9DB2	37.2229	-116.0696	1.5890	NNSS-SPE Line 5 site 08
L5008	CLZ	3915	110 BB66	37.2229	-116.0696	1.5890	NNSS-SPE Line 5 site 08
L5008	CLR	3916	110 BB66	37.2229	-116.0696	1.5890	NNSS-SPE Line 5 site 08
L5008	CLT	3917	110 BB66	37.2229	-116.0696	1.5890	NNSS-SPE Line 5 site 08
L5008	CLZ	3918	110 BB66	37.2229	-116.0696	1.5890	NNSS-SPE Line 5 site 08
L5008	CLR	3919	110 BB66	37.2229	-116.0696	1.5890	NNSS-SPE Line 5 site 08
L5008	CLT	3920	110 BB66	37.2229	-116.0696	1.5890	NNSS-SPE Line 5 site 08
L5008	CLZ	3921	214830-05 BB66	37.2229	-116.0696	1.5890	NNSS-SPE Line 5 site 08
L5008	CLR	3922	214830-05 BB66	37.2229	-116.0696	1.5890	NNSS-SPE Line 5 site 08
L5008	CLT	3923	214830-05 BB66	37.2229	-116.0696	1.5890	NNSS-SPE Line 5 site 08
L5008	CLZ	3924	214830-05 BB66	37.2229	-116.0696	1.5890	NNSS-SPE Line 5 site 08
L5008	CLR	3925	214830-05 BB66	37.2229	-116.0696	1.5890	NNSS-SPE Line 5 site 08
L5008	CLT	3926	214830-05 BB66	37.2229	-116.0696	1.5890	NNSS-SPE Line 5 site 08
L5008	CLZ	3927	110 BB66	37.2229	-116.0696	1.5890	NNSS-SPE Line 5 site 08
L5008	CLR	3928	110 BB66	37.2229	-116.0696	1.5890	NNSS-SPE Line 5 site 08
L5008	CLT	3929	110 BB66	37.2229	-116.0696	1.5890	NNSS-SPE Line 5 site 08
L5008	CLZ	3930	92 BB66	37.2229	-116.0696	1.5890	NNSS-SPE Line 5 site 08
L5008	CLR	3931	92 BB66	37.2229	-116.0696	1.5890	NNSS-SPE Line 5 site 08
L5008	CLT	3932	92 BB66	37.2229	-116.0696	1.5890	NNSS-SPE Line 5 site 08
L5009	CLZ	3933	116 949C	37.2231	-116.0707	1.5790	NNSS-SPE Line 5 site 09
L5009	CLZ	3934	116 949C	37.2231	-116.0707	1.5790	NNSS-SPE Line 5 site 09
L5009	CLZ	3935	116 949C	37.2231	-116.0707	1.5790	NNSS-SPE Line 5 site 09
L5009	CLZ	3936	116 949C	37.2231	-116.0707	1.5790	NNSS-SPE Line 5 site 09
L5009	CLZ	3937	116 B3AC	37.2231	-116.0707	1.5790	NNSS-SPE Line 5 site 09
L5009	CLR	3938	116 B3AC	37.2231	-116.0707	1.5790	NNSS-SPE Line 5 site 09
L5009	CLT	3939	116 B3AC	37.2231	-116.0707	1.5790	NNSS-SPE Line 5 site 09
L5009	CLZ	3940	116 B3AC	37.2231	-116.0707	1.5790	NNSS-SPE Line 5 site 09
L5009	CLR	3941	116 B3AC	37.2231	-116.0707	1.5790	NNSS-SPE Line 5 site 09

Appendix 7
Selected Metadata for SPE-6 Surface Stations

Station ID	Channel	Channel ID	Description	Estimated Latitude	Estimated Longitude	Elevation km (amsl)	Location
L5009	CLT	3942	116 B3AC	37.2231	-116.0707	1.5790	NNSS-SPE Line 5 site 09
L5009	CLZ	3943	116 B3AC	37.2231	-116.0707	1.5790	NNSS-SPE Line 5 site 09
L5009	CLR	3944	116 B3AC	37.2231	-116.0707	1.5790	NNSS-SPE Line 5 site 09
L5009	CLT	3945	116 B3AC	37.2231	-116.0707	1.5790	NNSS-SPE Line 5 site 09
L5009	CLZ	3946	116 B3AC	37.2231	-116.0707	1.5790	NNSS-SPE Line 5 site 09
L5009	CLR	3947	116 B3AC	37.2231	-116.0707	1.5790	NNSS-SPE Line 5 site 09
L5009	CLT	3948	116 B3AC	37.2231	-116.0707	1.5790	NNSS-SPE Line 5 site 09
L5009	CLZ	3949	116 B3AC	37.2231	-116.0707	1.5790	NNSS-SPE Line 5 site 09
L5009	CLR	3950	116 B3AC	37.2231	-116.0707	1.5790	NNSS-SPE Line 5 site 09
L5009	CLT	3951	116 B3AC	37.2231	-116.0707	1.5790	NNSS-SPE Line 5 site 09
L5009	CLZ	3952	116 B3AC	37.2231	-116.0707	1.5790	NNSS-SPE Line 5 site 09
L5009	CLR	3953	116 B3AC	37.2231	-116.0707	1.5790	NNSS-SPE Line 5 site 09
L5009	CLT	3954	116 B3AC	37.2231	-116.0707	1.5790	NNSS-SPE Line 5 site 09
L5009	CLZ	3955	116 B3AC	37.2231	-116.0707	1.5790	NNSS-SPE Line 5 site 09
L5009	CLR	3956	116 B3AC	37.2231	-116.0707	1.5790	NNSS-SPE Line 5 site 09
L5009	CLT	3957	116 B3AC	37.2231	-116.0707	1.5790	NNSS-SPE Line 5 site 09
L5009	CLZ	3958	116 B3AC	37.2231	-116.0707	1.5790	NNSS-SPE Line 5 site 09
L5009	CLR	3959	116 B3AC	37.2231	-116.0707	1.5790	NNSS-SPE Line 5 site 09
L5009	CLT	3960	116 B3AC	37.2231	-116.0707	1.5790	NNSS-SPE Line 5 site 09
L5010	CNZ	3961	3697 921F	37.2233	-116.0718	1.5680	NNSS-SPE Line 5 site 10
L5010	CNR	3962	3697 921F	37.2233	-116.0718	1.5680	NNSS-SPE Line 5 site 10
L5010	CNT	3963	3697 921F	37.2233	-116.0718	1.5680	NNSS-SPE Line 5 site 10
L5010	DJZ	3964	A201617 921F	37.2233	-116.0718	1.5680	NNSS-SPE Line 5 site 10
L5010	DJR	3965	A201617 921F	37.2233	-116.0718	1.5680	NNSS-SPE Line 5 site 10
L5010	DJT	3966	A201617 921F	37.2233	-116.0718	1.5680	NNSS-SPE Line 5 site 10
L5010	CNZ	3967	3697 B2D0	37.2233	-116.0718	1.5680	NNSS-SPE Line 5 site 10
L5010	CNR	3968	3697 B2D0	37.2233	-116.0718	1.5680	NNSS-SPE Line 5 site 10
L5010	CNT	3969	3697 B2D0	37.2233	-116.0718	1.5680	NNSS-SPE Line 5 site 10
L5010	DJZ	3970	A201617 B2D0	37.2233	-116.0718	1.5680	NNSS-SPE Line 5 site 10
L5010	DJR	3971	A201617 B2D0	37.2233	-116.0718	1.5680	NNSS-SPE Line 5 site 10
L5010	DJT	3972	A201617 B2D0	37.2233	-116.0718	1.5680	NNSS-SPE Line 5 site 10

Appendix 7
Selected Metadata for SPE-6 Surface Stations

Station ID	Channel	Channel ID	Description	Estimated Latitude	Estimated Longitude	Elevation km (amsl)	Location
L5010	CNZ	3973	3697 B2D0	37.2233	-116.0718	1.5680	NNSS-SPE Line 5 site 10
L5010	CNR	3974	3697 B2D0	37.2233	-116.0718	1.5680	NNSS-SPE Line 5 site 10
L5010	CNT	3975	3697 B2D0	37.2233	-116.0718	1.5680	NNSS-SPE Line 5 site 10
L5010	DJZ	3976	A201617 B2D0	37.2233	-116.0718	1.5680	NNSS-SPE Line 5 site 10
L5010	DJR	3977	A201617 B2D0	37.2233	-116.0718	1.5680	NNSS-SPE Line 5 site 10
L5010	DJT	3978	A201617 B2D0	37.2233	-116.0718	1.5680	NNSS-SPE Line 5 site 10
L5010	CNZ	3979	3697 B2D0	37.2233	-116.0718	1.5680	NNSS-SPE Line 5 site 10
L5010	CNR	3980	3697 B2D0	37.2233	-116.0718	1.5680	NNSS-SPE Line 5 site 10
L5010	CNT	3981	3697 B2D0	37.2233	-116.0718	1.5680	NNSS-SPE Line 5 site 10
L5010	DJZ	3982	A201617 B2D0	37.2233	-116.0718	1.5680	NNSS-SPE Line 5 site 10
L5010	DJR	3983	A201617 B2D0	37.2233	-116.0718	1.5680	NNSS-SPE Line 5 site 10
L5010	DJT	3984	A201617 B2D0	37.2233	-116.0718	1.5680	NNSS-SPE Line 5 site 10
L5010	CLZ	3985	51 949C	37.2233	-116.0718	1.5680	NNSS-SPE Line 5 site 10
L5010	CLZ	3986	51 949C	37.2233	-116.0718	1.5680	NNSS-SPE Line 5 site 10
L5010	CLZ	3987	51 949C	37.2233	-116.0718	1.5680	NNSS-SPE Line 5 site 10
L5010	CLZ	3988	51 949C	37.2233	-116.0718	1.5680	NNSS-SPE Line 5 site 10
L5010	CLZ	3989	51 B3AC	37.2233	-116.0718	1.5680	NNSS-SPE Line 5 site 10
L5010	CLR	3990	51 B3AC	37.2233	-116.0718	1.5680	NNSS-SPE Line 5 site 10
L5010	CLT	3991	51 B3AC	37.2233	-116.0718	1.5680	NNSS-SPE Line 5 site 10
L5010	CLZ	3992	51 B3AC	37.2233	-116.0718	1.5680	NNSS-SPE Line 5 site 10
L5010	CLR	3993	51 B3AC	37.2233	-116.0718	1.5680	NNSS-SPE Line 5 site 10
L5010	CLT	3994	51 B3AC	37.2233	-116.0718	1.5680	NNSS-SPE Line 5 site 10
L5010	CLZ	3995	51 B3AC	37.2233	-116.0718	1.5680	NNSS-SPE Line 5 site 10
L5010	CLR	3996	51 B3AC	37.2233	-116.0718	1.5680	NNSS-SPE Line 5 site 10
L5010	CLT	3997	51 B3AC	37.2233	-116.0718	1.5680	NNSS-SPE Line 5 site 10
L5010	CLZ	3998	51 B3AC	37.2233	-116.0718	1.5680	NNSS-SPE Line 5 site 10
L5010	CLR	3999	51 B3AC	37.2233	-116.0718	1.5680	NNSS-SPE Line 5 site 10
L5010	CLT	4000	51 B3AC	37.2233	-116.0718	1.5680	NNSS-SPE Line 5 site 10
L5010	CLZ	4001	51 B3AC	37.2233	-116.0718	1.5680	NNSS-SPE Line 5 site 10
L5010	CLR	4002	51 B3AC	37.2233	-116.0718	1.5680	NNSS-SPE Line 5 site 10
L5010	CLT	4003	51 B3AC	37.2233	-116.0718	1.5680	NNSS-SPE Line 5 site 10

Appendix 7
Selected Metadata for SPE-6 Surface Stations

Station ID	Channel	Channel ID	Description	Estimated Latitude	Estimated Longitude	Elevation km (amsl)	Location
L5010	CLZ	4004	51 B3AC	37.2233	-116.0718	1.5680	NNSS-SPE Line 5 site 10
L5010	CLR	4005	51 B3AC	37.2233	-116.0718	1.5680	NNSS-SPE Line 5 site 10
L5010	CLT	4006	51 B3AC	37.2233	-116.0718	1.5680	NNSS-SPE Line 5 site 10
L5010	CLZ	4007	51 B3AC	37.2233	-116.0718	1.5680	NNSS-SPE Line 5 site 10
L5010	CLR	4008	51 B3AC	37.2233	-116.0718	1.5680	NNSS-SPE Line 5 site 10
L5010	CLT	4009	51 B3AC	37.2233	-116.0718	1.5680	NNSS-SPE Line 5 site 10
L5010	CLZ	4010	73 B3AC	37.2233	-116.0718	1.5680	NNSS-SPE Line 5 site 10
L5010	CLR	4011	73 B3AC	37.2233	-116.0718	1.5680	NNSS-SPE Line 5 site 10
L5010	CLT	4012	73 B3AC	37.2233	-116.0718	1.5680	NNSS-SPE Line 5 site 10
L5011	CLZ	4013	36 949C	37.2235	-116.0729	1.5660	NNSS-SPE Line 5 site 11
L5011	CLZ	4014	36 949C	37.2235	-116.0729	1.5660	NNSS-SPE Line 5 site 11
L5011	CLZ	4015	36 949C	37.2235	-116.0729	1.5660	NNSS-SPE Line 5 site 11
L5011	CLZ	4016	36 949C	37.2235	-116.0729	1.5660	NNSS-SPE Line 5 site 11
L5011	CLZ	4017	36 949C	37.2235	-116.0729	1.5660	NNSS-SPE Line 5 site 11
L5011	CLR	4018	36 949C	37.2235	-116.0729	1.5660	NNSS-SPE Line 5 site 11
L5011	CLT	4019	36 949C	37.2235	-116.0729	1.5660	NNSS-SPE Line 5 site 11
L5011	CLZ	4020	36 949C	37.2235	-116.0729	1.5660	NNSS-SPE Line 5 site 11
L5011	CLR	4021	36 949C	37.2235	-116.0729	1.5660	NNSS-SPE Line 5 site 11
L5011	CLT	4022	36 949C	37.2235	-116.0729	1.5660	NNSS-SPE Line 5 site 11
L5011	CLZ	4023	36 949C	37.2235	-116.0729	1.5660	NNSS-SPE Line 5 site 11
L5011	CLR	4024	36 949C	37.2235	-116.0729	1.5660	NNSS-SPE Line 5 site 11
L5011	CLT	4025	36 949C	37.2235	-116.0729	1.5660	NNSS-SPE Line 5 site 11
L5011	CLZ	4026	36 949C	37.2235	-116.0729	1.5660	NNSS-SPE Line 5 site 11
L5011	CLR	4027	36 949C	37.2235	-116.0729	1.5660	NNSS-SPE Line 5 site 11
L5011	CLT	4028	36 949C	37.2235	-116.0729	1.5660	NNSS-SPE Line 5 site 11
L5011	CLZ	4029	36 D1CC	37.2235	-116.0729	1.5660	NNSS-SPE Line 5 site 11
L5011	CLR	4030	36 D1CC	37.2235	-116.0729	1.5660	NNSS-SPE Line 5 site 11
L5011	CLT	4031	36 D1CC	37.2235	-116.0729	1.5660	NNSS-SPE Line 5 site 11
L5011	CLZ	4032	36 D1CC	37.2235	-116.0729	1.5660	NNSS-SPE Line 5 site 11
L5011	CLR	4033	36 D1CC	37.2235	-116.0729	1.5660	NNSS-SPE Line 5 site 11
L5011	CLT	4034	36 D1CC	37.2235	-116.0729	1.5660	NNSS-SPE Line 5 site 11

Appendix 7
Selected Metadata for SPE-6 Surface Stations

Station ID	Channel	Channel ID	Description	Estimated Latitude	Estimated Longitude	Elevation km (amsl)	Location
L5011	CLZ	4035	36 D1CC	37.2235	-116.0729	1.5660	NNSS-SPE Line 5 site 11
L5011	CLR	4036	36 D1CC	37.2235	-116.0729	1.5660	NNSS-SPE Line 5 site 11
L5011	CLT	4037	36 D1CC	37.2235	-116.0729	1.5660	NNSS-SPE Line 5 site 11
L5011	CLZ	4038	36 D1CC	37.2235	-116.0729	1.5660	NNSS-SPE Line 5 site 11
L5011	CLR	4039	36 D1CC	37.2235	-116.0729	1.5660	NNSS-SPE Line 5 site 11
L5011	CLT	4040	36 D1CC	37.2235	-116.0729	1.5660	NNSS-SPE Line 5 site 11
L5012	CLZ	4041	10 949C	37.2237	-116.0740	1.5860	NNSS-SPE Line 5 site 12
L5012	CLR	4042	10 949C	37.2237	-116.0740	1.5860	NNSS-SPE Line 5 site 12
L5012	CLT	4043	10 949C	37.2237	-116.0740	1.5860	NNSS-SPE Line 5 site 12
L5012	CLZ	4044	10 949C	37.2237	-116.0740	1.5860	NNSS-SPE Line 5 site 12
L5012	CLR	4045	10 949C	37.2237	-116.0740	1.5860	NNSS-SPE Line 5 site 12
L5012	CLT	4046	10 949C	37.2237	-116.0740	1.5860	NNSS-SPE Line 5 site 12
L5012	CLZ	4047	10 949C	37.2237	-116.0740	1.5860	NNSS-SPE Line 5 site 12
L5012	CLR	4048	10 949C	37.2237	-116.0740	1.5860	NNSS-SPE Line 5 site 12
L5012	CLT	4049	10 949C	37.2237	-116.0740	1.5860	NNSS-SPE Line 5 site 12
L5012	CLZ	4050	10 949C	37.2237	-116.0740	1.5860	NNSS-SPE Line 5 site 12
L5012	CLR	4051	10 949C	37.2237	-116.0740	1.5860	NNSS-SPE Line 5 site 12
L5012	CLT	4052	10 949C	37.2237	-116.0740	1.5860	NNSS-SPE Line 5 site 12
L5012	CLZ	4053	10 949C	37.2237	-116.0740	1.5860	NNSS-SPE Line 5 site 12
L5012	CLR	4054	10 949C	37.2237	-116.0740	1.5860	NNSS-SPE Line 5 site 12
L5012	CLT	4055	10 949C	37.2237	-116.0740	1.5860	NNSS-SPE Line 5 site 12
L5012	CLZ	4056	10 949C	37.2237	-116.0740	1.5860	NNSS-SPE Line 5 site 12
L5012	CLR	4057	10 949C	37.2237	-116.0740	1.5860	NNSS-SPE Line 5 site 12
L5012	CLT	4058	10 949C	37.2237	-116.0740	1.5860	NNSS-SPE Line 5 site 12
L5012	CLZ	4059	10 949C	37.2237	-116.0740	1.5860	NNSS-SPE Line 5 site 12
L5012	CLR	4060	10 949C	37.2237	-116.0740	1.5860	NNSS-SPE Line 5 site 12
L5012	CLT	4061	10 949C	37.2237	-116.0740	1.5860	NNSS-SPE Line 5 site 12
L5012	CLZ	4062	10 949C	37.2237	-116.0740	1.5860	NNSS-SPE Line 5 site 12
L5012	CLR	4063	10 949C	37.2237	-116.0740	1.5860	NNSS-SPE Line 5 site 12
L5012	CLT	4064	10 949C	37.2237	-116.0740	1.5860	NNSS-SPE Line 5 site 12
L5012	CLZ	4065	10 D1CC	37.2237	-116.0740	1.5860	NNSS-SPE Line 5 site 12

Appendix 7
Selected Metadata for SPE-6 Surface Stations

Station ID	Channel	Channel ID	Description	Estimated Latitude	Estimated Longitude	Elevation km (amsl)	Location
L5012	CLR	4066	10 D1CC	37.2237	-116.0740	1.5860	NNSS-SPE Line 5 site 12
L5012	CLT	4067	10 D1CC	37.2237	-116.0740	1.5860	NNSS-SPE Line 5 site 12
L5012	CLZ	4068	10 D1CC	37.2237	-116.0740	1.5860	NNSS-SPE Line 5 site 12
L5012	CLR	4069	10 D1CC	37.2237	-116.0740	1.5860	NNSS-SPE Line 5 site 12
L5012	CLT	4070	10 D1CC	37.2237	-116.0740	1.5860	NNSS-SPE Line 5 site 12
L5012	CLZ	4071	10 D1CC	37.2237	-116.0740	1.5860	NNSS-SPE Line 5 site 12
L5012	CLR	4072	10 D1CC	37.2237	-116.0740	1.5860	NNSS-SPE Line 5 site 12
L5012	CLT	4073	10 D1CC	37.2237	-116.0740	1.5860	NNSS-SPE Line 5 site 12
L5012	CLZ	4074	235358-21 D1CC	37.2237	-116.0740	1.5860	NNSS-SPE Line 5 site 12
L5012	CLR	4075	235358-21 D1CC	37.2237	-116.0740	1.5860	NNSS-SPE Line 5 site 12
L5012	CLT	4076	235358-21 D1CC	37.2237	-116.0740	1.5860	NNSS-SPE Line 5 site 12
L5013	CLZ	4077	9 9DE8	37.2240	-116.0751	1.6120	NNSS-SPE Line 5 site 13
L5013	CLZ	4078	9 9D91	37.2240	-116.0751	1.6120	NNSS-SPE Line 5 site 13
L5013	CLR	4079	9 9D91	37.2240	-116.0751	1.6120	NNSS-SPE Line 5 site 13
L5013	CLT	4080	9 9D91	37.2240	-116.0751	1.6120	NNSS-SPE Line 5 site 13
L5013	CLZ	4081	9 9D91	37.2240	-116.0751	1.6120	NNSS-SPE Line 5 site 13
L5013	CLR	4082	9 9D91	37.2240	-116.0751	1.6120	NNSS-SPE Line 5 site 13
L5013	CLT	4083	9 9D91	37.2240	-116.0751	1.6120	NNSS-SPE Line 5 site 13
L5013	CLZ	4084	9 9D91	37.2240	-116.0751	1.6120	NNSS-SPE Line 5 site 13
L5013	CLR	4085	9 9D91	37.2240	-116.0751	1.6120	NNSS-SPE Line 5 site 13
L5013	CLT	4086	9 9D91	37.2240	-116.0751	1.6120	NNSS-SPE Line 5 site 13
L5013	CLZ	4087	225358-41 9D91	37.2240	-116.0751	1.6120	NNSS-SPE Line 5 site 13
L5013	CLR	4088	225358-41 9D91	37.2240	-116.0751	1.6120	NNSS-SPE Line 5 site 13
L5013	CLT	4089	225358-41 9D91	37.2240	-116.0751	1.6120	NNSS-SPE Line 5 site 13
L5013	CLZ	4090	225358-41 9D91	37.2240	-116.0751	1.6120	NNSS-SPE Line 5 site 13
L5013	CLR	4091	225358-41 9D91	37.2240	-116.0751	1.6120	NNSS-SPE Line 5 site 13
L5013	CLT	4092	225358-41 9D91	37.2240	-116.0751	1.6120	NNSS-SPE Line 5 site 13
L5013	CLZ	4093	225358-41 9D91	37.2240	-116.0751	1.6120	NNSS-SPE Line 5 site 13
L5013	CLR	4094	225358-41 9D91	37.2240	-116.0751	1.6120	NNSS-SPE Line 5 site 13
L5013	CLT	4095	225358-41 9D91	37.2240	-116.0751	1.6120	NNSS-SPE Line 5 site 13
L5013	CLZ	4096	225358-41 9D91	37.2240	-116.0751	1.6120	NNSS-SPE Line 5 site 13

Appendix 7
Selected Metadata for SPE-6 Surface Stations

Station ID	Channel	Channel ID	Description	Estimated Latitude	Estimated Longitude	Elevation km (amsl)	Location
L5013	CLR	4097	225358-41 9D91	37.2240	-116.0751	1.6120	NNSS-SPE Line 5 site 13
L5013	CLT	4098	225358-41 9D91	37.2240	-116.0751	1.6120	NNSS-SPE Line 5 site 13
L5013	CLZ	4099	225358-41 9D91	37.2240	-116.0751	1.6120	NNSS-SPE Line 5 site 13
L5013	CLR	4100	225358-41 9D91	37.2240	-116.0751	1.6120	NNSS-SPE Line 5 site 13
L5013	CLT	4101	225358-41 9D91	37.2240	-116.0751	1.6120	NNSS-SPE Line 5 site 13
L5014	CLZ	4102	47 9DE8	37.2242	-116.0762	1.6420	NNSS-SPE Line 5 site 14
L5014	CLZ	4103	47 9D91	37.2242	-116.0762	1.6420	NNSS-SPE Line 5 site 14
L5014	CLR	4104	47 9D91	37.2242	-116.0762	1.6420	NNSS-SPE Line 5 site 14
L5014	CLT	4105	47 9D91	37.2242	-116.0762	1.6420	NNSS-SPE Line 5 site 14
L5014	CLZ	4106	47 9D91	37.2242	-116.0762	1.6420	NNSS-SPE Line 5 site 14
L5014	CLR	4107	47 9D91	37.2242	-116.0762	1.6420	NNSS-SPE Line 5 site 14
L5014	CLT	4108	47 9D91	37.2242	-116.0762	1.6420	NNSS-SPE Line 5 site 14
L5014	CLZ	4109	47 9D91	37.2242	-116.0762	1.6420	NNSS-SPE Line 5 site 14
L5014	CLR	4110	47 9D91	37.2242	-116.0762	1.6420	NNSS-SPE Line 5 site 14
L5014	CLT	4111	47 9D91	37.2242	-116.0762	1.6420	NNSS-SPE Line 5 site 14
L5014	CLZ	4112	47 9D91	37.2242	-116.0762	1.6420	NNSS-SPE Line 5 site 14
L5014	CLR	4113	47 9D91	37.2242	-116.0762	1.6420	NNSS-SPE Line 5 site 14
L5014	CLT	4114	47 9D91	37.2242	-116.0762	1.6420	NNSS-SPE Line 5 site 14
L5014	CLZ	4115	47 9D91	37.2242	-116.0762	1.6420	NNSS-SPE Line 5 site 14
L5014	CLR	4116	47 9D91	37.2242	-116.0762	1.6420	NNSS-SPE Line 5 site 14
L5014	CLT	4117	47 9D91	37.2242	-116.0762	1.6420	NNSS-SPE Line 5 site 14
L5014	CLZ	4118	47 9D91	37.2242	-116.0762	1.6420	NNSS-SPE Line 5 site 14
L5014	CLR	4119	47 9D91	37.2242	-116.0762	1.6420	NNSS-SPE Line 5 site 14
L5014	CLT	4120	47 9D91	37.2242	-116.0762	1.6420	NNSS-SPE Line 5 site 14
L5014	CLZ	4121	47 9D91	37.2242	-116.0762	1.6420	NNSS-SPE Line 5 site 14
L5014	CLR	4122	47 9D91	37.2242	-116.0762	1.6420	NNSS-SPE Line 5 site 14
L5014	CLT	4123	47 9D91	37.2242	-116.0762	1.6420	NNSS-SPE Line 5 site 14
L5014	CLZ	4124	47 9D91	37.2242	-116.0762	1.6420	NNSS-SPE Line 5 site 14
L5014	CLR	4125	47 9D91	37.2242	-116.0762	1.6420	NNSS-SPE Line 5 site 14
L5014	CLT	4126	47 9D91	37.2242	-116.0762	1.6420	NNSS-SPE Line 5 site 14
L5015	CLZ	4127	55 9DE8	37.2244	-116.0773	1.6780	NNSS-SPE Line 5 site 15

Appendix 7
Selected Metadata for SPE-6 Surface Stations

Station ID	Channel	Channel ID	Description	Estimated Latitude	Estimated Longitude	Elevation km (amsl)	Location
L5015	CLZ	4128	55 B3C5	37.2244	-116.0773	1.6780	NNSS-SPE Line 5 site 15
L5015	CLR	4129	55 B3C5	37.2244	-116.0773	1.6780	NNSS-SPE Line 5 site 15
L5015	CLT	4130	55 B3C5	37.2244	-116.0773	1.6780	NNSS-SPE Line 5 site 15
L5015	CLZ	4131	55 B3C5	37.2244	-116.0773	1.6780	NNSS-SPE Line 5 site 15
L5015	CLR	4132	55 B3C5	37.2244	-116.0773	1.6780	NNSS-SPE Line 5 site 15
L5015	CLT	4133	55 B3C5	37.2244	-116.0773	1.6780	NNSS-SPE Line 5 site 15
L5015	CLZ	4134	55 B3B1	37.2244	-116.0773	1.6780	NNSS-SPE Line 5 site 15
L5015	CLR	4135	55 B3B1	37.2244	-116.0773	1.6780	NNSS-SPE Line 5 site 15
L5015	CLT	4136	55 B3B1	37.2244	-116.0773	1.6780	NNSS-SPE Line 5 site 15
L5015	CLZ	4137	55 B3B1	37.2244	-116.0773	1.6780	NNSS-SPE Line 5 site 15
L5015	CLR	4138	55 B3B1	37.2244	-116.0773	1.6780	NNSS-SPE Line 5 site 15
L5015	CLT	4139	55 B3B1	37.2244	-116.0773	1.6780	NNSS-SPE Line 5 site 15
L5015	CLZ	4140	77 B3B1	37.2244	-116.0773	1.6780	NNSS-SPE Line 5 site 15
L5015	CLR	4141	77 B3B1	37.2244	-116.0773	1.6780	NNSS-SPE Line 5 site 15
L5015	CLT	4142	77 B3B1	37.2244	-116.0773	1.6780	NNSS-SPE Line 5 site 15
L5015	CLZ	4143	77 B3B1	37.2244	-116.0773	1.6780	NNSS-SPE Line 5 site 15
L5015	CLR	4144	77 B3B1	37.2244	-116.0773	1.6780	NNSS-SPE Line 5 site 15
L5015	CLT	4145	77 B3B1	37.2244	-116.0773	1.6780	NNSS-SPE Line 5 site 15
L5015	CLZ	4146	77 B3B1	37.2244	-116.0773	1.6780	NNSS-SPE Line 5 site 15
L5015	CLR	4147	77 B3B1	37.2244	-116.0773	1.6780	NNSS-SPE Line 5 site 15
L5015	CLT	4148	77 B3B1	37.2244	-116.0773	1.6780	NNSS-SPE Line 5 site 15
L5015	CLZ	4149	77 B3B1	37.2244	-116.0773	1.6780	NNSS-SPE Line 5 site 15
L5015	CLR	4150	77 B3B1	37.2244	-116.0773	1.6780	NNSS-SPE Line 5 site 15
L5015	CLT	4151	77 B3B1	37.2244	-116.0773	1.6780	NNSS-SPE Line 5 site 15
L5016	DHZ	4152	T4091 9DE8	37.2246	-116.0784	1.7250	NNSS-SPE Line 5 site 16
L5016	DHR	4153	T4091 9DE8	37.2246	-116.0784	1.7250	NNSS-SPE Line 5 site 16
L5016	DHT	4154	T4091 9DE8	37.2246	-116.0784	1.7250	NNSS-SPE Line 5 site 16
L5016	DHZ	4155	T4091 B3C5	37.2246	-116.0784	1.7250	NNSS-SPE Line 5 site 16
L5016	DHR	4156	T4091 B3C5	37.2246	-116.0784	1.7250	NNSS-SPE Line 5 site 16
L5016	DHT	4157	T4091 B3C5	37.2246	-116.0784	1.7250	NNSS-SPE Line 5 site 16
L5016	DHZ	4158	T4091 B3C5	37.2246	-116.0784	1.7250	NNSS-SPE Line 5 site 16

Appendix 7
Selected Metadata for SPE-6 Surface Stations

Station ID	Channel	Channel ID	Description	Estimated Latitude	Estimated Longitude	Elevation km (amsl)	Location
L5016	DHR	4159	T4091 B3C5	37.2246	-116.0784	1.7250	NNSS-SPE Line 5 site 16
L5016	DHT	4160	T4091 B3C5	37.2246	-116.0784	1.7250	NNSS-SPE Line 5 site 16
L5016	DHZ	4161	T4091 B3B1	37.2246	-116.0784	1.7250	NNSS-SPE Line 5 site 16
L5016	DHR	4162	T4091 B3B1	37.2246	-116.0784	1.7250	NNSS-SPE Line 5 site 16
L5016	DHT	4163	T4091 B3B1	37.2246	-116.0784	1.7250	NNSS-SPE Line 5 site 16
L5016	DHZ	4164	T4091 B3B1	37.2246	-116.0784	1.7250	NNSS-SPE Line 5 site 16
L5016	DHR	4165	T4091 B3B1	37.2246	-116.0784	1.7250	NNSS-SPE Line 5 site 16
L5016	DHT	4166	T4091 B3B1	37.2246	-116.0784	1.7250	NNSS-SPE Line 5 site 16
L5016	DHZ	4167	T4091 B3B1	37.2246	-116.0784	1.7250	NNSS-SPE Line 5 site 16
L5016	DHR	4168	T4091 B3B1	37.2246	-116.0784	1.7250	NNSS-SPE Line 5 site 16
L5016	DHT	4169	T4091 B3B1	37.2246	-116.0784	1.7250	NNSS-SPE Line 5 site 16
L5016	DHZ	4170	T4091 B3B1	37.2246	-116.0784	1.7250	NNSS-SPE Line 5 site 16
L5016	DHR	4171	T4091 B3B1	37.2246	-116.0784	1.7250	NNSS-SPE Line 5 site 16
L5016	DHT	4172	T4091 B3B1	37.2246	-116.0784	1.7250	NNSS-SPE Line 5 site 16
L5016	DHZ	4173	T4091 B3B1	37.2246	-116.0784	1.7250	NNSS-SPE Line 5 site 16
L5016	DHR	4174	T4091 B3B1	37.2246	-116.0784	1.7250	NNSS-SPE Line 5 site 16
L5016	DHT	4175	T4091 B3B1	37.2246	-116.0784	1.7250	NNSS-SPE Line 5 site 16
L5016	CLZ	4176	214830-03 B3B1	37.2246	-116.0784	1.7250	NNSS-SPE Line 5 site 16
L5016	CLR	4177	214830-03 B3B1	37.2246	-116.0784	1.7250	NNSS-SPE Line 5 site 16
L5016	CLT	4178	214830-03 B3B1	37.2246	-116.0784	1.7250	NNSS-SPE Line 5 site 16
L5024	CHZ	4179	497 9D62	37.2297	-116.1047	1.7670	NNSS-SPE Line 5 site 24
L5024	CH1	4180	497 9D62	37.2297	-116.1047	1.7670	NNSS-SPE Line 5 site 24
L5024	CH2	4181	497 9D62	37.2297	-116.1047	1.7670	NNSS-SPE Line 5 site 24
L5024	CHZ	4182	497 9D62	37.2297	-116.1047	1.7670	NNSS-SPE Line 5 site 24
L5024	CH1	4183	497 9D62	37.2297	-116.1047	1.7670	NNSS-SPE Line 5 site 24
L5024	CH2	4184	497 9D62	37.2297	-116.1047	1.7670	NNSS-SPE Line 5 site 24
L5024	CHZ	4185	1026 9D62	37.2297	-116.1047	1.7670	NNSS-SPE Line 5 site 24
L5024	CH1	4186	1026 9D62	37.2297	-116.1047	1.7670	NNSS-SPE Line 5 site 24
L5024	CH2	4187	1026 9D62	37.2297	-116.1047	1.7670	NNSS-SPE Line 5 site 24
L5024	CHZ	4188	1026 9D62	37.2297	-116.1047	1.7670	NNSS-SPE Line 5 site 24
L5024	CHN	4189	1026 9D62	37.2297	-116.1047	1.7670	NNSS-SPE Line 5 site 24

Appendix 7
Selected Metadata for SPE-6 Surface Stations

Station ID	Channel	Channel ID	Description	Estimated Latitude	Estimated Longitude	Elevation km (amsl)	Location
L5024	CHE	4190	1026 9D62	37.2297	-116.1047	1.7670	NNSS-SPE Line 5 site 24
L5024	CHZ	4191	1026 9D93	37.2297	-116.1047	1.7670	NNSS-SPE Line 5 site 24
L5024	CHN	4192	1026 9D93	37.2297	-116.1047	1.7670	NNSS-SPE Line 5 site 24
L5024	CHE	4193	1026 9D93	37.2297	-116.1047	1.7670	NNSS-SPE Line 5 site 24
L5026	CHZ	4194	506 9E21	37.2319	-116.1156	1.8080	NNSS-SPE Line 5 site 26
L5026	CH1	4195	506 9E21	37.2319	-116.1156	1.8080	NNSS-SPE Line 5 site 26
L5026	CH2	4196	506 9E21	37.2319	-116.1156	1.8080	NNSS-SPE Line 5 site 26
L5026	CHZ	4197	506 9835	37.2319	-116.1156	1.8080	NNSS-SPE Line 5 site 26
L5026	CH1	4198	506 9835	37.2319	-116.1156	1.8080	NNSS-SPE Line 5 site 26
L5026	CH2	4199	506 9835	37.2319	-116.1156	1.8080	NNSS-SPE Line 5 site 26
L5026	CHZ	4200	1011 9835	37.2319	-116.1156	1.8080	NNSS-SPE Line 5 site 26
L5026	CH1	4201	1011 9835	37.2319	-116.1156	1.8080	NNSS-SPE Line 5 site 26
L5026	CH2	4202	1011 9835	37.2319	-116.1156	1.8080	NNSS-SPE Line 5 site 26
L5026	CHZ	4203	1011 9835	37.2319	-116.1156	1.8080	NNSS-SPE Line 5 site 26
L5026	CHN	4204	1011 9835	37.2319	-116.1156	1.8080	NNSS-SPE Line 5 site 26
L5026	CHE	4205	1011 9835	37.2319	-116.1156	1.8080	NNSS-SPE Line 5 site 26
L5026	CHZ	4206	1011 B3B2	37.2319	-116.1156	1.8080	NNSS-SPE Line 5 site 26
L5026	CHN	4207	1011 B3B2	37.2319	-116.1156	1.8080	NNSS-SPE Line 5 site 26
L5026	CHE	4208	1011 B3B2	37.2319	-116.1156	1.8080	NNSS-SPE Line 5 site 26
L5026	CHZ	4209	1011 B2D3	37.2319	-116.1156	1.8080	NNSS-SPE Line 5 site 26
L5026	CHN	4210	1011 B2D3	37.2319	-116.1156	1.8080	NNSS-SPE Line 5 site 26
L5026	CHE	4211	1011 B2D3	37.2319	-116.1156	1.8080	NNSS-SPE Line 5 site 26
L5028	CHZ	4212	582 9505	37.2404	-116.1594	1.9110	NNSS-SPE Line 5 site 28
L5028	CH1	4213	582 9505	37.2404	-116.1594	1.9110	NNSS-SPE Line 5 site 28
L5028	CH2	4214	582 9505	37.2404	-116.1594	1.9110	NNSS-SPE Line 5 site 28
L5028	CHZ	4215	582 9505	37.2404	-116.1594	1.9110	NNSS-SPE Line 5 site 28
L5028	CH1	4216	582 9505	37.2404	-116.1594	1.9110	NNSS-SPE Line 5 site 28
L5028	CH2	4217	582 9505	37.2404	-116.1594	1.9110	NNSS-SPE Line 5 site 28
L5028	CHZ	4218	1012 9505	37.2404	-116.1594	1.9110	NNSS-SPE Line 5 site 28
L5028	CH1	4219	1012 9505	37.2404	-116.1594	1.9110	NNSS-SPE Line 5 site 28
L5028	CH2	4220	1012 9505	37.2404	-116.1594	1.9110	NNSS-SPE Line 5 site 28

Appendix 7
Selected Metadata for SPE-6 Surface Stations

Station ID	Channel	Channel ID	Description	Estimated Latitude	Estimated Longitude	Elevation km (amsl)	Location
L5028	CHZ	4221	1012 9505	37.2404	-116.1594	1.9110	NNSS-SPE Line 5 site 28
L5028	CH1	4222	1012 9505	37.2404	-116.1594	1.9110	NNSS-SPE Line 5 site 28
L5028	CH2	4223	1012 9505	37.2404	-116.1594	1.9110	NNSS-SPE Line 5 site 28
L5028	CHN	4224	1012 9505	37.2404	-116.1594	1.9110	NNSS-SPE Line 5 site 28
L5028	CHE	4225	1012 9505	37.2404	-116.1594	1.9110	NNSS-SPE Line 5 site 28
L5028	CHZ	4226	1012 9505	37.2404	-116.1594	1.9110	NNSS-SPE Line 5 site 28
L5028	CHN	4227	1012 9505	37.2404	-116.1594	1.9110	NNSS-SPE Line 5 site 28
L5028	CHE	4228	1012 9505	37.2404	-116.1594	1.9110	NNSS-SPE Line 5 site 28
L5030	CHZ	4229	471 AF0D	37.2490	-116.2032	2.0740	NNSS-SPE Line 5 site 30
L5030	CH1	4230	471 AF0D	37.2490	-116.2032	2.0740	NNSS-SPE Line 5 site 30
L5030	CH2	4231	471 AF0D	37.2490	-116.2032	2.0740	NNSS-SPE Line 5 site 30
L5030	CHZ	4232	471 AF0D	37.2490	-116.2032	2.0740	NNSS-SPE Line 5 site 30
L5030	CH1	4233	471 AF0D	37.2490	-116.2032	2.0740	NNSS-SPE Line 5 site 30
L5030	CH2	4234	471 AF0D	37.2490	-116.2032	2.0740	NNSS-SPE Line 5 site 30
L5030	CHZ	4235	1016 AF0D	37.2490	-116.2032	2.0740	NNSS-SPE Line 5 site 30
L5030	CH1	4236	1016 AF0D	37.2490	-116.2032	2.0740	NNSS-SPE Line 5 site 30
L5030	CH2	4237	1016 AF0D	37.2490	-116.2032	2.0740	NNSS-SPE Line 5 site 30
L5030	CHZ	4238	1016 AF0D	37.2490	-116.2032	2.0740	NNSS-SPE Line 5 site 30
L5030	CHN	4239	1016 AF0D	37.2490	-116.2032	2.0740	NNSS-SPE Line 5 site 30
L5030	CHE	4240	1016 AF0D	37.2490	-116.2032	2.0740	NNSS-SPE Line 5 site 30
L5034	CHZ	4241	483 AF0A	37.2660	-116.2909	2.0770	NNSS-SPE Line 5 site 34
L5034	CH1	4242	483 AF0A	37.2660	-116.2909	2.0770	NNSS-SPE Line 5 site 34
L5034	CH2	4243	483 AF0A	37.2660	-116.2909	2.0770	NNSS-SPE Line 5 site 34
L5034	CHZ	4244	483 AF0A	37.2660	-116.2909	2.0770	NNSS-SPE Line 5 site 34
L5034	CH1	4245	483 AF0A	37.2660	-116.2909	2.0770	NNSS-SPE Line 5 site 34
L5034	CH2	4246	483 AF0A	37.2660	-116.2909	2.0770	NNSS-SPE Line 5 site 34
L5034	CHZ	4247	1014 AF0A	37.2660	-116.2909	2.0770	NNSS-SPE Line 5 site 34
L5034	CH1	4248	1014 AF0A	37.2660	-116.2909	2.0770	NNSS-SPE Line 5 site 34
L5034	CH2	4249	1014 AF0A	37.2660	-116.2909	2.0770	NNSS-SPE Line 5 site 34
L5034	CHZ	4250	1014 AF0A	37.2660	-116.2909	2.0770	NNSS-SPE Line 5 site 34
L5034	CHN	4251	1014 AF0A	37.2660	-116.2909	2.0770	NNSS-SPE Line 5 site 34

Appendix 7
Selected Metadata for SPE-6 Surface Stations

Station ID	Channel	Channel ID	Description	Estimated Latitude	Estimated Longitude	Elevation km (amsl)	Location
L5034	CHE	4252	1014 AF0A	37.2660	-116.2909	2.0770	NNSS-SPE Line 5 site 34
L5036	CHZ	4253	491 AF09	37.2745	-116.3347	2.1000	NNSS-SPE Line 5 site 36
L5036	CH1	4254	491 AF09	37.2745	-116.3347	2.1000	NNSS-SPE Line 5 site 36
L5036	CH2	4255	491 AF09	37.2745	-116.3347	2.1000	NNSS-SPE Line 5 site 36
L5036	CHZ	4256	491 AF09	37.2745	-116.3347	2.1000	NNSS-SPE Line 5 site 36
L5036	CH1	4257	491 AF09	37.2745	-116.3347	2.1000	NNSS-SPE Line 5 site 36
L5036	CH2	4258	491 AF09	37.2745	-116.3347	2.1000	NNSS-SPE Line 5 site 36
L5036	CHZ	4259	1033 AF09	37.2745	-116.3347	2.1000	NNSS-SPE Line 5 site 36
L5036	CH1	4260	1033 AF09	37.2745	-116.3347	2.1000	NNSS-SPE Line 5 site 36
L5036	CH2	4261	1033 AF09	37.2745	-116.3347	2.1000	NNSS-SPE Line 5 site 36
L5036	CHZ	4262	1033 AF09	37.2745	-116.3347	2.1000	NNSS-SPE Line 5 site 36
L5036	CHN	4263	1033 AF09	37.2745	-116.3347	2.1000	NNSS-SPE Line 5 site 36
L5036	CHE	4264	1033 AF09	37.2745	-116.3347	2.1000	NNSS-SPE Line 5 site 36
L5150	CNZ	4265	173 D1F2	37.2214	-116.0625	1.5231	NNSS-SPE Line 5 150m
L5150	CNR	4266	173 D1F2	37.2214	-116.0625	1.5231	NNSS-SPE Line 5 150m
L5150	CNT	4267	173 D1F2	37.2214	-116.0625	1.5231	NNSS-SPE Line 5 150m
L5150	CNZ	4268	173 D1F2	37.2214	-116.0625	1.5231	NNSS-SPE Line 5 150m
L5150	CNR	4269	173 D1F2	37.2214	-116.0625	1.5231	NNSS-SPE Line 5 150m
L5150	CNT	4270	173 D1F2	37.2214	-116.0625	1.5231	NNSS-SPE Line 5 150m
L560	CNZ	4271	608 D137	37.2213	-116.0615	1.5086	NNSS-SPE Line 5 60m
L560	CNR	4272	608 D137	37.2213	-116.0615	1.5086	NNSS-SPE Line 5 60m
L560	CNT	4273	608 D137	37.2213	-116.0615	1.5086	NNSS-SPE Line 5 60m
L560	CNZ	4274	608 D137	37.2213	-116.0615	1.5086	NNSS-SPE Line 5 60m
L560	CNR	4275	608 D137	37.2213	-116.0615	1.5086	NNSS-SPE Line 5 60m
L560	CNT	4276	608 D137	37.2213	-116.0615	1.5086	NNSS-SPE Line 5 60m
Far Field							
A7001	CDF_01	1	71983 916F	37.0996	-116.0416	1.2469	NNSS-SPE Area 7 Inf-N no.1
A7002	CDF_02	2	71984 916F	37.0993	-116.0412	1.2476	NNSS-SPE Area 7 Inf-E no.2
A7003	CDF_03	3	71985 916F	37.0989	-116.0417	1.2464	NNSS-SPE Area 7 Inf-S no.3
A7004	CDF_04	4	71986 916F	37.0993	-116.0421	1.2455	NNSS-SPE Area 7 Inf-W no.4
A7005	CDF_05	5	71987 916F	37.0993	-116.0416	1.2467	NNSS-SPE Area 7 Inf-C no.5

Appendix 7
Selected Metadata for SPE-6 Surface Stations

Station ID	Channel	Channel ID	Description	Estimated Latitude	Estimated Longitude	Elevation km (amsl)	Location
AC001	CHZ	6	1446 B3B5	37.2213	-116.0603	1.5273	NNSS-SPE Area 12 sp4 loc 9
AC001	CHN	7	1446 B3B5	37.2213	-116.0603	1.5273	NNSS-SPE Area 12 sp4 loc 9
AC001	CHE	8	1446 B3B5	37.2213	-116.0603	1.5273	NNSS-SPE Area 12 sp4 loc 9
AF001	CDF	4315	51758 A883	37.2160	-116.1611	1.6371	NNSS-SPE AFTAC site 01
AF001	CHZ	4316	10649 A883	37.2160	-116.1611	1.6371	NNSS-SPE AFTAC site 01
AF001	CHN	4317	10649 A883	37.2160	-116.1611	1.6371	NNSS-SPE AFTAC site 01
AF001	CHE	4318	10649 A883	37.2160	-116.1611	1.6371	NNSS-SPE AFTAC site 01
AF001	CHZ	4319	1447 BB11	37.2160	-116.1611	1.6371	NNSS-SPE AFTAC site 01
AF001	CHN	4320	1447 BB11	37.2160	-116.1611	1.6371	NNSS-SPE AFTAC site 01
AF001	CHE	4321	1447 BB11	37.2160	-116.1611	1.6371	NNSS-SPE AFTAC site 01
AF002	CDF	4322	61839 98C4	37.1640	-116.1423	1.4941	NNSS-SPE AFTAC site 02
AF002	CHZ	4323	10130 98C4	37.1640	-116.1423	1.4941	NNSS-SPE AFTAC site 02
AF002	CHN	4324	10130 98C4	37.1640	-116.1423	1.4941	NNSS-SPE AFTAC site 02
AF002	CHE	4325	10130 98C4	37.1640	-116.1423	1.4941	NNSS-SPE AFTAC site 02
AF002	CHZ	4326	1449 BB9C	37.1640	-116.1423	1.4941	NNSS-SPE AFTAC site 02
AF002	CHN	4327	1449 BB9C	37.1640	-116.1423	1.4941	NNSS-SPE AFTAC site 02
AF002	CHE	4328	1449 BB9C	37.1640	-116.1423	1.4941	NNSS-SPE AFTAC site 02
AF003	CDF	4329	61778 A865	37.1313	-116.0573	1.2618	NNSS-SPE AFTAC site 03
AF003	CHZ	4330	10652 A865	37.1313	-116.0573	1.2618	NNSS-SPE AFTAC site 03
AF003	CHN	4331	10652 A865	37.1313	-116.0573	1.2618	NNSS-SPE AFTAC site 03
AF003	CHE	4332	10652 A865	37.1313	-116.0573	1.2618	NNSS-SPE AFTAC site 03
AF003	CHZ	4333	1445 BC07	37.1313	-116.0573	1.2618	NNSS-SPE AFTAC site 03
AF003	CHN	4334	1445 BC07	37.1313	-116.0573	1.2618	NNSS-SPE AFTAC site 03
AF003	CHE	4335	1445 BC07	37.1313	-116.0573	1.2618	NNSS-SPE AFTAC site 03
AF004	CDF	4336	51757 9D7F	37.1801	-115.9834	1.4370	NNSS-SPE AFTAC site 04
AF004	CHZ	4337	10655 9D7F	37.1801	-115.9834	1.4370	NNSS-SPE AFTAC site 04
AF004	CHN	4338	10655 9D7F	37.1801	-115.9834	1.4370	NNSS-SPE AFTAC site 04
AF004	CHE	4339	10655 9D7F	37.1801	-115.9834	1.4370	NNSS-SPE AFTAC site 04
AF004	CHZ	4340	1442 BC09	37.1801	-115.9834	1.4370	NNSS-SPE AFTAC site 04
AF004	CHN	4341	1442 BC09	37.1801	-115.9834	1.4370	NNSS-SPE AFTAC site 04
AF004	CHE	4342	1442 BC09	37.1801	-115.9834	1.4370	NNSS-SPE AFTAC site 04

Appendix 7
Selected Metadata for SPE-6 Surface Stations

Station ID	Channel	Channel ID	Description	Estimated Latitude	Estimated Longitude	Elevation km (amsl)	Location
AF005	CDF	4343	61773 9222	37.1894	-116.0204	1.3372	NNSS-SPE AFTAC site 05
AF005	CHZ	4344	10653 9222	37.1894	-116.0204	1.3372	NNSS-SPE AFTAC site 05
AF005	CHN	4345	10653 9222	37.1894	-116.0204	1.3372	NNSS-SPE AFTAC site 05
AF005	CHE	4346	10653 9222	37.1894	-116.0204	1.3372	NNSS-SPE AFTAC site 05
AF005	CHZ	4347	10653 9222	37.1894	-116.0204	1.3372	NNSS-SPE AFTAC site 05
AF005	CHN	4348	10653 9222	37.1894	-116.0204	1.3372	NNSS-SPE AFTAC site 05
AF005	CHE	4349	10653 9222	37.1894	-116.0204	1.3372	NNSS-SPE AFTAC site 05
AF005	CHZ	4350	10653 9222	37.1894	-116.0204	1.3372	NNSS-SPE AFTAC site 05
AF005	CHN	4351	10653 9222	37.1894	-116.0204	1.3372	NNSS-SPE AFTAC site 05
AF005	CHE	4352	10653 9222	37.1894	-116.0204	1.3372	NNSS-SPE AFTAC site 05
AF005	CHZ	4353	1454 BCB9	37.1894	-116.0204	1.3372	NNSS-SPE AFTAC site 05
AF005	CHN	4354	1454 BCB9	37.1894	-116.0204	1.3372	NNSS-SPE AFTAC site 05
AF005	CHE	4355	1454 BCB9	37.1894	-116.0204	1.3372	NNSS-SPE AFTAC site 05
AF006	CNZ	4356	2569 98AC	37.0531	-116.0903	1.2484	NNSS-SPE AFTAC site 06
AF006	CNN	4357	2569 98AC	37.0531	-116.0903	1.2484	NNSS-SPE AFTAC site 06
AF006	CNE	4358	2569 98AC	37.0531	-116.0903	1.2484	NNSS-SPE AFTAC site 06
AF006	CHZ	4359	1450 BB8B	37.0531	-116.0903	1.2484	NNSS-SPE AFTAC site 06
AF006	CHN	4360	1450 BB8B	37.0531	-116.0903	1.2484	NNSS-SPE AFTAC site 06
AF006	CHE	4361	1450 BB8B	37.0531	-116.0903	1.2484	NNSS-SPE AFTAC site 06
AF007	CDF	4362	61779 9508	37.1239	-116.1478	1.4521	NNSS-SPE AFTAC site 07
AF007	CHZ	4363	10651 9508	37.1239	-116.1478	1.4521	NNSS-SPE AFTAC site 07
AF007	CHN	4364	10651 9508	37.1239	-116.1478	1.4521	NNSS-SPE AFTAC site 07
AF007	CHE	4365	10651 9508	37.1239	-116.1478	1.4521	NNSS-SPE AFTAC site 07
AF007	CHZ	4366	1455 BB8B	37.1239	-116.1478	1.4521	NNSS-SPE AFTAC site 07
AF007	CHN	4367	1455 BB8B	37.1239	-116.1478	1.4521	NNSS-SPE AFTAC site 07
AF007	CHE	4368	1455 BB8B	37.1239	-116.1478	1.4521	NNSS-SPE AFTAC site 07
AF008	CNZ	4369	2571 AA2E	37.2211	-116.0496	1.4539	NNSS-SPE AFTAC site 08
AF008	CNN	4370	2571 AA2E	37.2211	-116.0496	1.4539	NNSS-SPE AFTAC site 08
AF008	CNE	4371	2571 AA2E	37.2211	-116.0496	1.4539	NNSS-SPE AFTAC site 08
AF008	DHZ	4372	T9349 AA2E	37.2211	-116.0496	1.4539	NNSS-SPE AFTAC site 08
AF008	DHN	4373	T9349 AA2E	37.2211	-116.0496	1.4539	NNSS-SPE AFTAC site 08

Appendix 7
Selected Metadata for SPE-6 Surface Stations

Station ID	Channel	Channel ID	Description	Estimated Latitude	Estimated Longitude	Elevation km (amsl)	Location
AF008	DHE	4374	T9349 AA2E	37.2211	-116.0496	1.4539	NNSS-SPE AFTAC site 08
AF008	CNZ	4375	2571 AA2E	37.2211	-116.0496	1.4539	NNSS-SPE AFTAC site 08
AF008	CNN	4376	2571 AA2E	37.2211	-116.0496	1.4539	NNSS-SPE AFTAC site 08
AF008	CNE	4377	2571 AA2E	37.2211	-116.0496	1.4539	NNSS-SPE AFTAC site 08
AF008	DHZ	4378	T9349 AA2E	37.2211	-116.0496	1.4539	NNSS-SPE AFTAC site 08
AF008	DHN	4379	T9349 AA2E	37.2211	-116.0496	1.4539	NNSS-SPE AFTAC site 08
AF008	DHE	4380	T9349 AA2E	37.2211	-116.0496	1.4539	NNSS-SPE AFTAC site 08
AF009	CNZ	4381	2570 AA0A	37.2299	-116.0577	1.5490	NNSS-SPE AFTAC site 09
AF009	CNN	4382	2570 AA0A	37.2299	-116.0577	1.5490	NNSS-SPE AFTAC site 09
AF009	CNE	4383	2570 AA0A	37.2299	-116.0577	1.5490	NNSS-SPE AFTAC site 09
AF009	DHZ	4384	T9347 AA0A	37.2299	-116.0577	1.5490	NNSS-SPE AFTAC site 09
AF009	DHN	4385	T9347 AA0A	37.2299	-116.0577	1.5490	NNSS-SPE AFTAC site 09
AF009	DHE	4386	T9347 AA0A	37.2299	-116.0577	1.5490	NNSS-SPE AFTAC site 09
AF009	CNZ	4387	2570 AA0A	37.2299	-116.0577	1.5490	NNSS-SPE AFTAC site 09
AF009	CNN	4388	2570 AA0A	37.2299	-116.0577	1.5490	NNSS-SPE AFTAC site 09
AF009	CNE	4389	2570 AA0A	37.2299	-116.0577	1.5490	NNSS-SPE AFTAC site 09
AF009	DHZ	4390	T9347 AA0A	37.2299	-116.0577	1.5490	NNSS-SPE AFTAC site 09
AF009	DHN	4391	T9347 AA0A	37.2299	-116.0577	1.5490	NNSS-SPE AFTAC site 09
AF009	DHE	4392	T9347 AA0A	37.2299	-116.0577	1.5490	NNSS-SPE AFTAC site 09
AF010	CNZ	4393	2569 98AC	37.2190	-116.0718	1.5551	NNSS-SPE AFTAC site 10 (6a)
AF010	CNN	4394	2569 98AC	37.2190	-116.0718	1.5551	NNSS-SPE AFTAC site 10 (6a)
AF010	CNE	4395	2569 98AC	37.2190	-116.0718	1.5551	NNSS-SPE AFTAC site 10 (6a)
AF010	CNZ	4396	2569 98AC	37.2190	-116.0718	1.5551	NNSS-SPE AFTAC site 10 (6a)
AF010	CNN	4397	2569 98AC	37.2190	-116.0718	1.5551	NNSS-SPE AFTAC site 10 (6a)
AF010	CNE	4398	2569 98AC	37.2190	-116.0718	1.5551	NNSS-SPE AFTAC site 10 (6a)
AL5	EHZ	5132	2087 1000	36.8596	-116.4556	1.0660	Alcove 5, ESF, NTS, Nevada w84
AL5	SHZ	5133	2087 1000	36.8596	-116.4556	1.0660	Alcove 5, ESF, NTS, Nevada w84
AL5	EHN	5134	2087 1000	36.8596	-116.4556	1.0660	Alcove 5, ESF, NTS, Nevada w84
AL5	SHN	5135	2087 1000	36.8596	-116.4556	1.0660	Alcove 5, ESF, NTS, Nevada w84
AL5	EHE	5136	2087 1000	36.8596	-116.4556	1.0660	Alcove 5, ESF, NTS, Nevada w84
AL5	SHE	5137	2087 1000	36.8596	-116.4556	1.0660	Alcove 5, ESF, NTS, Nevada w84

Appendix 7
Selected Metadata for SPE-6 Surface Stations

Station ID	Channel	Channel ID	Description	Estimated Latitude	Estimated Longitude	Elevation km (amsl)	Location
AL5	HGZ	5138	0000 1000	36.8596	-116.4556	1.0660	Alcove 5, ESF, NTS, Nevada w84
AL5	HGN	5139	0000 1000	36.8596	-116.4556	1.0660	Alcove 5, ESF, NTS, Nevada w84
AL5	HGE	5140	0000 1000	36.8596	-116.4556	1.0660	Alcove 5, ESF, NTS, Nevada w84
AL5	HGZ	5141	0006 09BDE	36.8596	-116.4556	1.0660	Alcove 5, ESF, NTS, Nevada w84
AL5	HGN	5142	0006 09BDE	36.8596	-116.4556	1.0660	Alcove 5, ESF, NTS, Nevada w84
AL5	HGE	5143	0006 09BDE	36.8596	-116.4556	1.0660	Alcove 5, ESF, NTS, Nevada w84
AL5	EHZ	5144	2108 09BDE	36.8596	-116.4556	1.0660	Alcove 5, ESF, NTS, Nevada w84
AL5	EHN	5145	2108 09BDE	36.8596	-116.4556	1.0660	Alcove 5, ESF, NTS, Nevada w84
AL5	EHE	5146	2108 09BDE	36.8596	-116.4556	1.0660	Alcove 5, ESF, NTS, Nevada w84
AL5	HGZ	5147	3245 09BDE	36.8596	-116.4556	1.0660	Alcove 5, ESF, NTS, Nevada w84
AL5	HGN	5148	3245 09BDE	36.8596	-116.4556	1.0660	Alcove 5, ESF, NTS, Nevada w84
AL5	HGE	5149	3245 09BDE	36.8596	-116.4556	1.0660	Alcove 5, ESF, NTS, Nevada w84
AL5	EHZ	5150	2108 09BDE	36.8596	-116.4556	1.0660	Alcove 5, ESF, NTS, Nevada w84
AL5	EHN	5151	2108 09BDE	36.8596	-116.4556	1.0660	Alcove 5, ESF, NTS, Nevada w84
AL5	EHE	5152	2108 09BDE	36.8596	-116.4556	1.0660	Alcove 5, ESF, NTS, Nevada w84
				36.8596	-116.4556	1.3660	Alcove 5, Surface above ESF, NTS, NV w84
AMD	HHZ	5153	4047 0516	36.4526	-116.2818	0.7754	Amargosa Desert, Nevada w84
AMD	HHN	5154	4047 0516	36.4526	-116.2818	0.7754	Amargosa Desert, Nevada w84
AMD	HHE	5155	4047 0516	36.4526	-116.2818	0.7754	Amargosa Desert, Nevada w84
AMD	BHZ	5156	4047 0516	36.4526	-116.2818	0.7754	Amargosa Desert, Nevada w84
AMD	BHN	5157	4047 0516	36.4526	-116.2818	0.7754	Amargosa Desert, Nevada w84
AMD	BHE	5158	4047 0516	36.4526	-116.2818	0.7754	Amargosa Desert, Nevada w84
AMD	HHZ	5159	4062 0516	36.4526	-116.2818	0.7754	Amargosa Desert, Nevada w84
AMD	HHN	5160	4062 0516	36.4526	-116.2818	0.7754	Amargosa Desert, Nevada w84
AMD	HHE	5161	4062 0516	36.4526	-116.2818	0.7754	Amargosa Desert, Nevada w84
AMD	BHZ	5162	4062 0516	36.4526	-116.2818	0.7754	Amargosa Desert, Nevada w84
AMD	BHN	5163	4062 0516	36.4526	-116.2818	0.7754	Amargosa Desert, Nevada w84
AMD	BHE	5164	4062 0516	36.4526	-116.2818	0.7754	Amargosa Desert, Nevada w84
AMD	HHZ	5165	4061 0516	36.4526	-116.2818	0.7754	Amargosa Desert, Nevada w84
AMD	HHN	5166	4061 0516	36.4526	-116.2818	0.7754	Amargosa Desert, Nevada w84
AMD	HHE	5167	4061 0516	36.4526	-116.2818	0.7754	Amargosa Desert, Nevada w84

Appendix 7
Selected Metadata for SPE-6 Surface Stations

Station ID	Channel	Channel ID	Description	Estimated Latitude	Estimated Longitude	Elevation km (amsl)	Location
AMD	BHZ	5168	4061 0516	36.4526	-116.2818	0.7754	Amargosa Desert, Nevada w84
AMD	BHN	5169	4061 0516	36.4526	-116.2818	0.7754	Amargosa Desert, Nevada w84
AMD	BHE	5170	4061 0516	36.4526	-116.2818	0.7754	Amargosa Desert, Nevada w84
AMD	EHZ	5171	3299 0516	36.4526	-116.2818	0.7754	Amargosa Desert, Nevada w84
AMD	SHZ	5172	3299 0516	36.4526	-116.2818	0.7754	Amargosa Desert, Nevada w84
AMD	EHN	5173	3386 0516	36.4526	-116.2818	0.7754	Amargosa Desert, Nevada w84
AMD	SHN	5174	3386 0516	36.4526	-116.2818	0.7754	Amargosa Desert, Nevada w84
AMD	EHE	5175	3470 0516	36.4526	-116.2818	0.7754	Amargosa Desert, Nevada w84
AMD	SHE	5176	3470 0516	36.4526	-116.2818	0.7754	Amargosa Desert, Nevada w84
AMD	EHZ	5177	3299 0999	36.4526	-116.2818	0.7754	Amargosa Desert, Nevada w84
AMD	SHZ	5178	3299 0999	36.4526	-116.2818	0.7754	Amargosa Desert, Nevada w84
AMD	EHN	5179	3386 0999	36.4526	-116.2818	0.7754	Amargosa Desert, Nevada w84
AMD	SHN	5180	3386 0999	36.4526	-116.2818	0.7754	Amargosa Desert, Nevada w84
AMD	EHE	5181	3470 0999	36.4526	-116.2818	0.7754	Amargosa Desert, Nevada w84
AMD	SHE	5182	3470 0999	36.4526	-116.2818	0.7754	Amargosa Desert, Nevada w84
AMD	EHZ	5183	3299 09830	36.4526	-116.2818	0.7754	Amargosa Desert, Nevada w84
AMD	EHN	5184	3386 09830	36.4526	-116.2818	0.7754	Amargosa Desert, Nevada w84
AMD	EHE	5185	3470 09830	36.4526	-116.2818	0.7754	Amargosa Desert, Nevada w84
AS001	CLZ_01	9	WO-05V B3C0	37.2203	-116.0490	1.4467	NNSS-SPE SP3 Asymmetric Array site 01
AS001	CLZ_01	10	WO-05V B3C0	37.2203	-116.0490	1.4467	NNSS-SPE SP3 Asymmetric Array site 01
AS001	CLZ_01	11	WO-05V B3C0	37.2203	-116.0490	1.4467	NNSS-SPE SP3 Asymmetric Array site 01
AS001	CLZ_01	12	WO-05V B3C0	37.2203	-116.0490	1.4467	NNSS-SPE SP3 Asymmetric Array site 01
AS002	CLZ_02	13	WO-02V B3C0	37.2212	-116.0487	1.4503	NNSS-SPE SP3 Asymmetric Array site 02
AS002	CLZ_02	14	WO-02V B3C0	37.2212	-116.0487	1.4503	NNSS-SPE SP3 Asymmetric Array site 02
AS002	CLZ_02	15	WO-02V B3C0	37.2212	-116.0487	1.4503	NNSS-SPE SP3 Asymmetric Array site 02
AS002	CLZ_02	16	WO-02V B3C0	37.2212	-116.0487	1.4503	NNSS-SPE SP3 Asymmetric Array site 02
AS003	CLZ_03	17	WO-04V B3C0	37.2201	-116.0481	1.4414	NNSS-SPE SP3 Asymmetric Array site 03
AS003	CLZ_03	18	WO-04V B3C0	37.2201	-116.0481	1.4414	NNSS-SPE SP3 Asymmetric Array site 03
AS003	CLZ_03	19	WO-04V B3C0	37.2201	-116.0481	1.4414	NNSS-SPE SP3 Asymmetric Array site 03
AS003	CLZ_03	20	WO-04V B3C0	37.2201	-116.0481	1.4414	NNSS-SPE SP3 Asymmetric Array site 03
AS004	CLZ_04	21	WO-03V B3C0	37.2194	-116.0490	1.4414	NNSS-SPE SP3 Asymmetric Array site 04

Appendix 7
Selected Metadata for SPE-6 Surface Stations

Station ID	Channel	Channel ID	Description	Estimated Latitude	Estimated Longitude	Elevation km (amsl)	Location
AS004	CLZ_04	22	WO-03V B3C0	37.2194	-116.0490	1.4414	NNSS-SPE SP3 Asymmetric Array site 04
AS004	CLZ_04	23	WO-03V B3C0	37.2194	-116.0490	1.4414	NNSS-SPE SP3 Asymmetric Array site 04
AS004	CLZ_04	24	WO-03V B3C0	37.2194	-116.0490	1.4414	NNSS-SPE SP3 Asymmetric Array site 04
AS005	CLZ_05	25	WO-01V B3C0	37.2204	-116.0500	1.4507	NNSS-SPE SP3 Asymmetric Array site 05
AS005	CLZ_05	26	WO-01V B3C0	37.2204	-116.0500	1.4507	NNSS-SPE SP3 Asymmetric Array site 05
AS005	CLZ_05	27	WO-01V B3C0	37.2204	-116.0500	1.4507	NNSS-SPE SP3 Asymmetric Array site 05
AS005	CLZ_05	28	WO-01V B3C0	37.2204	-116.0500	1.4507	NNSS-SPE SP3 Asymmetric Array site 05
AS006	CLZ_06	29	WO-07V B3C0	37.2210	-116.0496	1.4531	NNSS-SPE SP3 Asymmetric Array site 06
AS006	CLZ_06	30	WO-07V B3C0	37.2210	-116.0496	1.4531	NNSS-SPE SP3 Asymmetric Array site 06
AS006	CLZ_06	31	WO-07V B3C0	37.2210	-116.0496	1.4531	NNSS-SPE SP3 Asymmetric Array site 06
AS006	CLZ_06	32	WO-07V B3C0	37.2210	-116.0496	1.4531	NNSS-SPE SP3 Asymmetric Array site 06
AS007	CLZ	33	WD-03 B3C0	37.2409	-116.0631	1.7116	NNSS-SPE SP4 Asymmetric Array A site 01
AS007	CLR	34	WD-03 B3C0	37.2409	-116.0631	1.7116	NNSS-SPE SP4 Asymmetric Array A site 01
AS007	CLT	35	WD-03 B3C0	37.2409	-116.0631	1.7116	NNSS-SPE SP4 Asymmetric Array A site 01
AS008	CLZ	36	WD-01 B3C0	37.2419	-116.0629	1.7298	NNSS-SPE SP4 Asymmetric Array A site 02
AS008	CLR	37	WD-01 B3C0	37.2419	-116.0629	1.7298	NNSS-SPE SP4 Asymmetric Array A site 02
AS008	CLT	38	WD-01 B3C0	37.2419	-116.0629	1.7298	NNSS-SPE SP4 Asymmetric Array A site 02
AS009	CLZ	39	WD-02 B3D5	37.2408	-116.0621	1.7369	NNSS-SPE SP4 Asymmetric Array B site 03
AS009	CLR	40	WD-02 B3D5	37.2408	-116.0621	1.7369	NNSS-SPE SP4 Asymmetric Array B site 03
AS009	CLT	41	WD-02 B3D5	37.2408	-116.0621	1.7369	NNSS-SPE SP4 Asymmetric Array B site 03
AS010	CLZ	42	WD-04 B3D5	37.2397	-116.0628	1.7122	NNSS-SPE SP4 Asymmetric Array B site 04
AS010	CLR	43	WD-04 B3D5	37.2397	-116.0628	1.7122	NNSS-SPE SP4 Asymmetric Array B site 04
AS010	CLT	44	WD-04 B3D5	37.2397	-116.0628	1.7122	NNSS-SPE SP4 Asymmetric Array B site 04
AS011	CLZ	45	WD-05 B2E1	37.2404	-116.0639	1.6988	NNSS-SPE SP4 Asymmetric Array C site 05
AS011	CLR	46	WD-05 B2E1	37.2404	-116.0639	1.6988	NNSS-SPE SP4 Asymmetric Array C site 05
AS011	CLT	47	WD-05 B2E1	37.2404	-116.0639	1.6988	NNSS-SPE SP4 Asymmetric Array C site 05
AS012	CLZ	48	GE-03 B2E1	37.2410	-116.0639	1.7049	NNSS-SPE SP4 Asymmetric Array C site 06
AS012	CLR	49	GE-03 B2E1	37.2410	-116.0639	1.7049	NNSS-SPE SP4 Asymmetric Array C site 06
AS012	CLT	50	GE-03 B2E1	37.2410	-116.0639	1.7049	NNSS-SPE SP4 Asymmetric Array C site 06
AX001	CDF_01	51	1107038 AAF6	37.1776	-116.0541	1.2842	NNSS-SPE Area 10 Sedan-N no.6
AX002	CDF_02	52	1107028 AAF6	37.1772	-116.0540	1.2840	NNSS-SPE Area 10 Sedan-SE no.7

Appendix 7
Selected Metadata for SPE-6 Surface Stations

Station ID	Channel	Channel ID	Description	Estimated Latitude	Estimated Longitude	Elevation km (amsl)	Location
AX003	CDF_03	53	909028 AAF6	37.1773	-116.0544	1.2837	NNSS-SPE Area 10 Sedan-SW no.8
AX004	CDF_04	54	01E006 AABD	37.2036	-116.0581	1.4004	NNSS-SPE Area 10 NMT-2K-N no.9
AX005	CDF_05	55	01D012 AABD	37.2033	-116.0578	1.3934	NNSS-SPE Area 10 NMT-2K-E no.10
AX006	CDF_06	56	01e0076 AABD	37.2033	-116.0584	1.3993	NNSS-SPE Area 10 NMT-2K-W no.11
BE1	CLZ	57	99 9498	37.0992	-116.0952	1.2726	BEEF E-1 SP3
BE1	CLN	58	99 9498	37.0992	-116.0952	1.2726	BEEF E-1 SP3
BE1	CLE	59	99 9498	37.0992	-116.0952	1.2726	BEEF E-1 SP3
BE10	CLZ	84	46 B3C8	37.0985	-116.0851	1.2573	BEEF E-10 SP3
BE10	CLN	85	46 B3C8	37.0985	-116.0851	1.2573	BEEF E-10 SP3
BE10	CLE	86	46 B3C8	37.0985	-116.0851	1.2573	BEEF E-10 SP3
BE2	CLZ	60	65 B3B5	37.0991	-116.0940	1.2706	BEEF E-2 SP3
BE2	CLN	61	65 B3B5	37.0991	-116.0940	1.2706	BEEF E-2 SP3
BE2	CLE	62	65 B3B5	37.0991	-116.0940	1.2706	BEEF E-2 SP3
BE3	CLZ	63	90 B3B6	37.0990	-116.0929	1.2688	BEEF E-3 SP3
BE3	CLN	64	90 B3B6	37.0990	-116.0929	1.2688	BEEF E-3 SP3
BE3	CLE	65	90 B3B6	37.0990	-116.0929	1.2688	BEEF E-3 SP3
BE4	CLZ	66	95 B2E3	37.0990	-116.0918	1.2665	BEEF E-4 SP3
BE4	CLN	67	95 B2E3	37.0990	-116.0918	1.2665	BEEF E-4 SP3
BE4	CLE	68	95 B2E3	37.0990	-116.0918	1.2665	BEEF E-4 SP3
BE5	CLZ	69	23 B3BA	37.0989	-116.0907	1.2646	BEEF E-5 SP3
BE5	CLN	70	23 B3BA	37.0989	-116.0907	1.2646	BEEF E-5 SP3
BE5	CLE	71	23 B3BA	37.0989	-116.0907	1.2646	BEEF E-5 SP3
BE5IE	CDF_02	112	112394 B3B3	37.0987	-116.0414	1.2461	BEEF East 5k INF SE SP3
BE5IG	CLZ	114	WO-09 B3B3	37.0989	-116.0417	1.2460	BEEF East 5k INF Geo SP3
BE5IG	CLN	115	WO-09 B3B3	37.0989	-116.0417	1.2460	BEEF East 5k INF Geo SP3
BE5IG	CLE	116	WO-09 B3B3	37.0989	-116.0417	1.2460	BEEF East 5k INF Geo SP3
BE5IG	CLZ	117	WO-09 B3B3	37.0989	-116.0417	1.2460	BEEF East 5k INF Geo SP3
BE5IG	CLN	118	WO-09 B3B3	37.0989	-116.0417	1.2460	BEEF East 5k INF Geo SP3
BE5IG	CLE	119	WO-09 B3B3	37.0989	-116.0417	1.2460	BEEF East 5k INF Geo SP3
BE5IN	CDF_01	111	112393 B3B3	37.0992	-116.0417	1.2462	BEEF East 5k INF N SP3
BE5IW	CDF_03	113	112396 B3B3	37.0988	-116.0420	1.2446	BEEF East 5k INF SW SP3

Appendix 7
Selected Metadata for SPE-6 Surface Stations

Station ID	Channel	Channel ID	Description	Estimated Latitude	Estimated Longitude	Elevation km (amsl)	Location
BE6	CLZ_04	72	WO-10 B3B0	37.0988	-116.0896	1.2630	BEEF E-6 SP3
BE6	CLN_05	73	WO-10 B3B0	37.0988	-116.0896	1.2630	BEEF E-6 SP3
BE6	CLE_06	74	WO-10 B3B0	37.0988	-116.0896	1.2630	BEEF E-6 SP3
BE7	CLZ	75	84 B2D4	37.0988	-116.0884	1.2616	BEEF E-7 SP3
BE7	CLN	76	84 B2D4	37.0988	-116.0884	1.2616	BEEF E-7 SP3
BE7	CLE	77	84 B2D4	37.0988	-116.0884	1.2616	BEEF E-7 SP3
BE8	CLZ	78	53 B3D2	37.0987	-116.0873	1.2601	BEEF E-8 SP3
BE8	CLN	79	53 B3D2	37.0987	-116.0873	1.2601	BEEF E-8 SP3
BE8	CLE	80	53 B3D2	37.0987	-116.0873	1.2601	BEEF E-8 SP3
BE9	CLZ	81	102 90B0	37.0986	-116.0862	1.2588	BEEF E-9 SP3
BE9	CLN	82	102 90B0	37.0986	-116.0862	1.2588	BEEF E-9 SP3
BE9	CLE	83	102 90B0	37.0986	-116.0862	1.2588	BEEF E-9 SP3
BEXIE	CDF_03	104	112400 B3AD	37.0973	-115.9899	1.3316	BEEF East 10k INF SE SP3
BEXIG	CLZ	105	WO-06 B3AD	37.0975	-115.9901	1.3320	BEEF East 10k INF Geo SP3
BEXIG	CLN	106	WO-06 B3AD	37.0975	-115.9901	1.3320	BEEF East 10k INF Geo SP3
BEXIG	CLE	107	WO-06 B3AD	37.0975	-115.9901	1.3320	BEEF East 10k INF Geo SP3
BEXIG	CLZ	108	WO-06 B3AD	37.0975	-115.9901	1.3320	BEEF East 10k INF Geo SP3
BEXIG	CLN	109	WO-06 B3AD	37.0975	-115.9901	1.3320	BEEF East 10k INF Geo SP3
BEXIG	CLE	110	WO-06 B3AD	37.0975	-115.9901	1.3320	BEEF East 10k INF Geo SP3
BEXIN	CDF_01	102	112399 B3AD	37.0978	-115.9900	1.3328	BEEF East 10k INF N SP3
BEXIW	CDF_02	103	112395 B3AD	37.0973	-115.9903	1.3308	BEEF East 10k INF SW SP3
BN1	CLZ	90	25 B2D1	37.1003	-116.0962	1.2753	BEEF N-1 SP3
BN1	CLN	91	25 B2D1	37.1003	-116.0962	1.2753	BEEF N-1 SP3
BN1	CLE	92	25 B2D1	37.1003	-116.0962	1.2753	BEEF N-1 SP3
BN10	CLZ	96	76 B3C6	37.1084	-116.0952	1.2783	BEEF N-10 SP3
BN10	CLN	97	76 B3C6	37.1084	-116.0952	1.2783	BEEF N-10 SP3
BN10	CLE	98	76 B3C6	37.1084	-116.0952	1.2783	BEEF N-10 SP3
BN11	CDF_01	99	112390 B3B9	37.0988	-116.0851	1.2576	BEEF North 1k INF SP3
BN5	CLZ	93	91 B2E1	37.1039	-116.0958	1.2762	BEEF N-5 SP3
BN5	CLN	94	91 B2E1	37.1039	-116.0958	1.2762	BEEF N-5 SP3
BN5	CLE	95	91 B2E1	37.1039	-116.0958	1.2762	BEEF N-5 SP3

Appendix 7
Selected Metadata for SPE-6 Surface Stations

Station ID	Channel	Channel ID	Description	Estimated Latitude	Estimated Longitude	Elevation km (amsl)	Location
BRH5	HHZ	5849	2975 D124	39.0544	-118.0356	1.6030	Broken Hills, NV, USA
BRH5	HHN	5850	2975 D124	39.0544	-118.0356	1.6030	Broken Hills, NV, USA
BRH5	HHE	5851	2975 D124	39.0544	-118.0356	1.6030	Broken Hills, NV, USA
BRS2	HHZ	5852	2956 D11E	38.5264	-117.6306	1.7320	Black Rock Springs, NV, USA
BRS2	HHN	5853	2956 D11E	38.5264	-117.6306	1.7320	Black Rock Springs, NV, USA
BRS2	HHE	5854	2956 D11E	38.5264	-117.6306	1.7320	Black Rock Springs, NV, USA
BSE1I	CDF_02	100	112391 B3B9	37.0984	-116.0848	1.2568	BEEF Southeast 1k INF SP3
BSW1I	CDF_03	101	112389 B3B9	37.0984	-116.0854	1.2576	BEEF Southwest 1k INF SP3
BTW	EHZ	5186	3347 0707	36.9978	-116.5674	1.3910	Beatty Wash, Nevada w84
BTW	SHZ	5187	3347 0707	36.9978	-116.5674	1.3910	Beatty Wash, Nevada w84
BTW	EHN	5188	3330 0707	36.9978	-116.5674	1.3910	Beatty Wash, Nevada w84
BTW	SHN	5189	3330 0707	36.9978	-116.5674	1.3910	Beatty Wash, Nevada w84
BTW	EHE	5190	3350 0707	36.9978	-116.5674	1.3910	Beatty Wash, Nevada w84
BTW	SHE	5191	3350 0707	36.9978	-116.5674	1.3910	Beatty Wash, Nevada w84
BTW	EHZ	5192	3347 0713	36.9978	-116.5674	1.3910	Beatty Wash, Nevada w84
BTW	SHZ	5193	3347 0713	36.9978	-116.5674	1.3910	Beatty Wash, Nevada w84
BTW	EHN	5194	3330 0713	36.9978	-116.5674	1.3910	Beatty Wash, Nevada w84
BTW	SHN	5195	3330 0713	36.9978	-116.5674	1.3910	Beatty Wash, Nevada w84
BTW	EHE	5196	3350 0713	36.9978	-116.5674	1.3910	Beatty Wash, Nevada w84
BTW	SHE	5197	3350 0713	36.9978	-116.5674	1.3910	Beatty Wash, Nevada w84
BTW	EHZ	5198	3347 0515	36.9978	-116.5674	1.3910	Beatty Wash, Nevada w84
BTW	SHZ	5199	3347 0515	36.9978	-116.5674	1.3910	Beatty Wash, Nevada w84
BTW	EHN	5200	3330 0515	36.9978	-116.5674	1.3910	Beatty Wash, Nevada w84
BTW	SHN	5201	3330 0515	36.9978	-116.5674	1.3910	Beatty Wash, Nevada w84
BTW	EHE	5202	3350 0515	36.9978	-116.5674	1.3910	Beatty Wash, Nevada w84
BTW	SHE	5203	3350 0515	36.9978	-116.5674	1.3910	Beatty Wash, Nevada w84
BTW	EHZ	5204	3347 1122	36.9978	-116.5674	1.3910	Beatty Wash, Nevada w84
BTW	SHZ	5205	3347 1122	36.9978	-116.5674	1.3910	Beatty Wash, Nevada w84
BTW	EHN	5206	3330 1122	36.9978	-116.5674	1.3910	Beatty Wash, Nevada w84
BTW	SHN	5207	3330 1122	36.9978	-116.5674	1.3910	Beatty Wash, Nevada w84
BTW	EHE	5208	3350 1122	36.9978	-116.5674	1.3910	Beatty Wash, Nevada w84

Appendix 7
Selected Metadata for SPE-6 Surface Stations

Station ID	Channel	Channel ID	Description	Estimated Latitude	Estimated Longitude	Elevation km (amsl)	Location
BTW	SHE	5209	3350 1122	36.9978	-116.5674	1.3910	Beatty Wash, Nevada w84
BTW	EHZ	5210	3347 0985C	36.9978	-116.5674	1.3910	Beatty Wash, Nevada w84
BTW	EHN	5211	3330 0985C	36.9978	-116.5674	1.3910	Beatty Wash, Nevada w84
BTW	EHE	5212	3350 0985C	36.9978	-116.5674	1.3910	Beatty Wash, Nevada w84
BW1	CLZ	87	3 B3AF	37.0994	-116.0974	1.2760	BEEF W-1 SP3
BW1	CLN	88	3 B3AF	37.0994	-116.0974	1.2760	BEEF W-1 SP3
BW1	CLE	89	3 B3AF	37.0994	-116.0974	1.2760	BEEF W-1 SP3
CAF	EHZ	5213	3355 0704	36.8391	-116.3386	1.1100	Calico Fan, NTS, Nevada w84
CAF	SHZ	5214	3355 0704	36.8391	-116.3386	1.1100	Calico Fan, NTS, Nevada w84
CAF	EHN	5215	3356 0704	36.8391	-116.3386	1.1100	Calico Fan, NTS, Nevada w84
CAF	SHN	5216	3356 0704	36.8391	-116.3386	1.1100	Calico Fan, NTS, Nevada w84
CAF	EHE	5217	3357 0704	36.8391	-116.3386	1.1100	Calico Fan, NTS, Nevada w84
CAF	SHE	5218	3357 0704	36.8391	-116.3386	1.1100	Calico Fan, NTS, Nevada w84
CAF	EHZ	5219	3355 0513	36.8391	-116.3386	1.1100	Calico Fan, NTS, Nevada w84
CAF	SHZ	5220	3355 0513	36.8391	-116.3386	1.1100	Calico Fan, NTS, Nevada w84
CAF	EHN	5221	3356 0513	36.8391	-116.3386	1.1100	Calico Fan, NTS, Nevada w84
CAF	SHN	5222	3356 0513	36.8391	-116.3386	1.1100	Calico Fan, NTS, Nevada w84
CAF	EHE	5223	3357 0513	36.8391	-116.3386	1.1100	Calico Fan, NTS, Nevada w84
CAF	SHE	5224	3357 0513	36.8391	-116.3386	1.1100	Calico Fan, NTS, Nevada w84
CAF	HGZ	5225	0239 0513	36.8391	-116.3386	1.1100	Calico Fan, NTS, Nevada w84
CAF	HGN	5226	0239 0513	36.8391	-116.3386	1.1100	Calico Fan, NTS, Nevada w84
CAF	HGE	5227	0239 0513	36.8391	-116.3386	1.1100	Calico Fan, NTS, Nevada w84
CAF	EHZ	5228	3383 0513	36.8391	-116.3386	1.1100	Calico Fan, NTS, Nevada w84
CAF	SHZ	5229	3383 0513	36.8391	-116.3386	1.1100	Calico Fan, NTS, Nevada w84
CAF	EHZ	5230	3383 0951E	36.8391	-116.3386	1.1100	Calico Fan, NTS, Nevada w84
CAF	EHN	5231	3356 0951E	36.8391	-116.3386	1.1100	Calico Fan, NTS, Nevada w84
CAF	EHE	5232	3357 0951E	36.8391	-116.3386	1.1100	Calico Fan, NTS, Nevada w84
CAF	HGZ	5233	0074 0951E	36.8391	-116.3386	1.1100	Calico Fan, NTS, Nevada w84
CAF	HGN	5234	0074 0951E	36.8391	-116.3386	1.1100	Calico Fan, NTS, Nevada w84
CAF	HGE	5235	0074 0951E	36.8391	-116.3386	1.1100	Calico Fan, NTS, Nevada w84
CAF	EHZ	5236	3383 Q3262	36.8391	-116.3386	1.1100	Calico Fan, NTS, Nevada w84

Appendix 7
Selected Metadata for SPE-6 Surface Stations

Station ID	Channel	Channel ID	Description	Estimated Latitude	Estimated Longitude	Elevation km (amsl)	Location
CAF	EHN	5237	3356 Q3262	36.8391	-116.3386	1.1100	Calico Fan, NTS, Nevada w84
CAF	EHE	5238	3357 Q3262	36.8391	-116.3386	1.1100	Calico Fan, NTS, Nevada w84
CAF	HGZ	5239	0074 Q3262	36.8391	-116.3386	1.1100	Calico Fan, NTS, Nevada w84
CAF	HGN	5240	0074 Q3262	36.8391	-116.3386	1.1100	Calico Fan, NTS, Nevada w84
CAF	HGE	5241	0074 Q3262	36.8391	-116.3386	1.1100	Calico Fan, NTS, Nevada w84
CMK6	HHZ	5855	3126 D178	39.3102	-118.1193	1.3320	Chalk Mountain, Churchill County, NV, USA
CMK6	HHN	5856	3126 D178	39.3102	-118.1193	1.3320	Chalk Mountain, Churchill County, NV, USA
CMK6	HHE	5857	3126 D178	39.3102	-118.1193	1.3320	Chalk Mountain, Churchill County, NV, USA
CPYB	HHZ	5858	2969 D1C9	36.9319	-116.0564	1.2760	Control Point Y NTS, NV,USA NN analog reactivation
CPYB	HHN	5859	2969 D1C9	36.9319	-116.0564	1.2760	Control Point Y NTS, NV,USA NN analog reactivation
CPYB	HHE	5860	2969 D1C9	36.9319	-116.0564	1.2760	Control Point Y NTS, NV,USA NN analog reactivation
CPYB	HHZ	5861	3285 D1C9	36.9319	-116.0564	1.2760	Control Point Y NTS, NV,USA NN analog reactivation
CPYB	HHN	5862	3285 D1C9	36.9319	-116.0564	1.2760	Control Point Y NTS, NV,USA NN analog reactivation
CPYB	HHE	5863	3285 D1C9	36.9319	-116.0564	1.2760	Control Point Y NTS, NV,USA NN analog reactivation
CRF	EHZ	5242	3549 0706	36.8118	-116.5349	1.0320	Crater Flat, Nevada w84
CRF	SHZ	5243	3549 0706	36.8118	-116.5349	1.0320	Crater Flat, Nevada w84
CRF	EHN	5244	3295 0706	36.8118	-116.5349	1.0320	Crater Flat, Nevada w84
CRF	SHN	5245	3295 0706	36.8118	-116.5349	1.0320	Crater Flat, Nevada w84
CRF	EHE	5246	3559 0706	36.8118	-116.5349	1.0320	Crater Flat, Nevada w84
CRF	SHE	5247	3559 0706	36.8118	-116.5349	1.0320	Crater Flat, Nevada w84
CRF	HGZ	5248	0238 0706	36.8118	-116.5349	1.0320	Crater Flat, Nevada w84
CRF	HGN	5249	0238 0706	36.8118	-116.5349	1.0320	Crater Flat, Nevada w84
CRF	HGE	5250	0238 0706	36.8118	-116.5349	1.0320	Crater Flat, Nevada w84
CRF	EHZ	5251	3549 092D3	36.8118	-116.5349	1.0320	Crater Flat, Nevada w84
CRF	EHN	5252	3295 092D3	36.8118	-116.5349	1.0320	Crater Flat, Nevada w84
CRF	EHE	5253	3559 092D3	36.8118	-116.5349	1.0320	Crater Flat, Nevada w84
CRF	HGZ	5254	0091 092D3	36.8118	-116.5349	1.0320	Crater Flat, Nevada w84
CRF	HGN	5255	0091 092D3	36.8118	-116.5349	1.0320	Crater Flat, Nevada w84
CRF	HGE	5256	0091 092D3	36.8118	-116.5349	1.0320	Crater Flat, Nevada w84
CRF	EHZ	5257	3549 Q3238	36.8118	-116.5349	1.0320	Crater Flat, Nevada w84
CRF	EHN	5258	3295 Q3238	36.8118	-116.5349	1.0320	Crater Flat, Nevada w84

Appendix 7
Selected Metadata for SPE-6 Surface Stations

Station ID	Channel	Channel ID	Description	Estimated Latitude	Estimated Longitude	Elevation km (amsl)	Location
CRF	EHE	5259	3559 Q3238	36.8118	-116.5349	1.0320	Crater Flat, Nevada w84
CRF	HGZ	5260	0091 Q3238	36.8118	-116.5349	1.0320	Crater Flat, Nevada w84
CRF	HGN	5261	0091 Q3238	36.8118	-116.5349	1.0320	Crater Flat, Nevada w84
CRF	HGE	5262	0091 Q3238	36.8118	-116.5349	1.0320	Crater Flat, Nevada w84
DAC	HHZ	5945	1669 D15A	36.2770	-117.5937	1.8130	Inyo County, Darwin, CA, USA
DAC	HHN	5946	1669 D15A	36.2770	-117.5937	1.8130	Inyo County, Darwin, CA, USA
DAC	HHE	5947	1669 D15A	36.2770	-117.5937	1.8130	Inyo County, Darwin, CA, USA
DOM	EHZ	5263	3576 0712	37.0021	-116.4095	1.7110	Dome Mountain, NTS, Nevada w84
DOM	SHZ	5264	3576 0712	37.0021	-116.4095	1.7110	Dome Mountain, NTS, Nevada w84
DOM	EHN	5265	3577 0712	37.0021	-116.4095	1.7110	Dome Mountain, NTS, Nevada w84
DOM	SHN	5266	3577 0712	37.0021	-116.4095	1.7110	Dome Mountain, NTS, Nevada w84
DOM	EHE	5267	3350 0712	37.0021	-116.4095	1.7110	Dome Mountain, NTS, Nevada w84
DOM	SHE	5268	3350 0712	37.0021	-116.4095	1.7110	Dome Mountain, NTS, Nevada w84
DOM	EHZ	5269	3576 1120	37.0021	-116.4095	1.7110	Dome Mountain, NTS, Nevada w84
DOM	SHZ	5270	3576 1120	37.0021	-116.4095	1.7110	Dome Mountain, NTS, Nevada w84
DOM	EHN	5271	3577 1120	37.0021	-116.4095	1.7110	Dome Mountain, NTS, Nevada w84
DOM	SHN	5272	3577 1120	37.0021	-116.4095	1.7110	Dome Mountain, NTS, Nevada w84
DOM	EHE	5273	3350 1120	37.0021	-116.4095	1.7110	Dome Mountain, NTS, Nevada w84
DOM	SHE	5274	3350 1120	37.0021	-116.4095	1.7110	Dome Mountain, NTS, Nevada w84
DOM	EHZ	5275	3576 09BE0	37.0021	-116.4095	1.7110	Dome Mountain, NTS, Nevada w84
DOM	EHN	5276	3577 09BE0	37.0021	-116.4095	1.7110	Dome Mountain, NTS, Nevada w84
DOM	EHE	5277	3350 09BE0	37.0021	-116.4095	1.7110	Dome Mountain, NTS, Nevada w84
DSP	HHZ	5864	609 3236	37.3680	-117.9722	1.6920	Deep Springs, California w84gm
DSP	HHN	5865	609 3236	37.3680	-117.9722	1.6920	Deep Springs, California w84gm
DSP	HHE	5866	609 3236	37.3680	-117.9722	1.6920	Deep Springs, California w84gm
DY10N	CNZ	120	152 D1CE	37.2163	-116.0638	1.4732	NNSS-SPE LLNL Episensor 10 SP5
DY10N	CNN	121	152 D1CE	37.2163	-116.0638	1.4732	NNSS-SPE LLNL Episensor 10 SP5
DY10N	CNE	122	152 D1CE	37.2163	-116.0638	1.4732	NNSS-SPE LLNL Episensor 10 SP5
DY1N	CNZ	123	15 D1BD	37.2256	-116.0595	1.5230	NNSS-SPE LLNL Episensor 1 SP5
DY1N	CNN	124	15 D1BD	37.2256	-116.0595	1.5230	NNSS-SPE LLNL Episensor 1 SP5
DY1N	CNE	125	15 D1BD	37.2256	-116.0595	1.5230	NNSS-SPE LLNL Episensor 1 SP5

Appendix 7
Selected Metadata for SPE-6 Surface Stations

Station ID	Channel	Channel ID	Description	Estimated Latitude	Estimated Longitude	Elevation km (amsl)	Location
DY2N	CNZ	126	113 D1CB	37.2276	-116.0557	1.5532	NNSS-SPE LLNL Episensor 2 SP5
DY2N	CNN	127	113 D1CB	37.2276	-116.0557	1.5532	NNSS-SPE LLNL Episensor 2 SP5
DY2N	CNE	128	113 D1CB	37.2276	-116.0557	1.5532	NNSS-SPE LLNL Episensor 2 SP5
DY3N	CNZ	129	118 D1AD	37.2264	-116.0647	1.5493	NNSS-SPE LLNL Episensor 3 SP5
DY3N	CNN	130	118 D1AD	37.2264	-116.0647	1.5493	NNSS-SPE LLNL Episensor 3 SP5
DY3N	CNE	131	118 D1AD	37.2264	-116.0647	1.5493	NNSS-SPE LLNL Episensor 3 SP5
DY4N	CNZ	132	151 BCC6	37.2202	-116.0667	1.5338	NNSS-SPE LLNL Episensor 4 SP5
DY4N	CNN	133	151 BCC6	37.2202	-116.0667	1.5338	NNSS-SPE LLNL Episensor 4 SP5
DY4N	CNE	134	151 BCC6	37.2202	-116.0667	1.5338	NNSS-SPE LLNL Episensor 4 SP5
DY5N	CNZ	135	156 BE51	37.2183	-116.0685	1.5011	NNSS-SPE LLNL Episensor 5 SP5
DY5N	CNN	136	156 BE51	37.2183	-116.0685	1.5011	NNSS-SPE LLNL Episensor 5 SP5
DY5N	CNE	137	156 BE51	37.2183	-116.0685	1.5011	NNSS-SPE LLNL Episensor 5 SP5
DY6N	CNZ	138	150 D1C8	37.2205	-116.0569	1.4729	NNSS-SPE LLNL Episensor 6 SP5
DY6N	CNN	139	150 D1C8	37.2205	-116.0569	1.4729	NNSS-SPE LLNL Episensor 6 SP5
DY6N	CNE	140	150 D1C8	37.2205	-116.0569	1.4729	NNSS-SPE LLNL Episensor 6 SP5
DY7N	CNZ	141	154 D1C9	37.2248	-116.0557	1.5048	NNSS-SPE LLNL Episensor 7 SP5
DY7N	CNN	142	154 D1C9	37.2248	-116.0557	1.5048	NNSS-SPE LLNL Episensor 7 SP5
DY7N	CNE	143	154 D1C9	37.2248	-116.0557	1.5048	NNSS-SPE LLNL Episensor 7 SP5
DY8N	CNZ	144	176 D1BE	37.2266	-116.0614	1.5333	NNSS-SPE LLNL Episensor 8 SP5
DY8N	CNN	145	176 D1BE	37.2266	-116.0614	1.5333	NNSS-SPE LLNL Episensor 8 SP5
DY8N	CNE	146	176 D1BE	37.2266	-116.0614	1.5333	NNSS-SPE LLNL Episensor 8 SP5
DY9N	CNZ	147	155 D1CA	37.2301	-116.0505	1.5328	NNSS-SPE LLNL Episensor 9 SP5
DY9N	CNN	148	155 D1CA	37.2301	-116.0505	1.5328	NNSS-SPE LLNL Episensor 9 SP5
DY9N	CNE	149	155 D1CA	37.2301	-116.0505	1.5328	NNSS-SPE LLNL Episensor 9 SP5
ECO	EHE	5278	0042 7884	37.2108	-116.3305	2.2320	Echo Peak, NTS, Nevada w84
ECO	EHN	5279	0172 7884	37.2108	-116.3305	2.2320	Echo Peak, NTS, Nevada w84
ECO	EHZ	5280	0171 7884	37.2108	-116.3305	2.2320	Echo Peak, NTS, Nevada w84
ECO	EHE	5281	0042 09837	37.2108	-116.3305	2.2320	Echo Peak, NTS, Nevada w84
ECO	EHN	5282	0172 09837	37.2108	-116.3305	2.2320	Echo Peak, NTS, Nevada w84
ECO	EHZ	5283	0171 09837	37.2108	-116.3305	2.2320	Echo Peak, NTS, Nevada w84
EM001	CFZ_01	150	1 919A	37.2210	-116.0610	1.4992	NNSS-SPE LLNL EMP 30m SP3

Appendix 7
Selected Metadata for SPE-6 Surface Stations

Station ID	Channel	Channel ID	Description	Estimated Latitude	Estimated Longitude	Elevation km (amsl)	Location
EM001	CFR_02	151	2 919A	37.2210	-116.0610	1.4992	NNSS-SPE LLNL EMP 30m SP3
EM001	CFT_03	152	3 919A	37.2210	-116.0610	1.4992	NNSS-SPE LLNL EMP 30m SP3
EM001	CFZ	153	1 919B	37.2210	-116.0610	1.4992	NNSS-SPE LLNL EMP 30m SP3
EM001	CFR	154	2 919B	37.2210	-116.0610	1.4992	NNSS-SPE LLNL EMP 30m SP3
EM001	CFT	155	3 919B	37.2210	-116.0610	1.4992	NNSS-SPE LLNL EMP 30m SP3
EM001	CHZ	156	123 919B	37.2210	-116.0610	1.4992	NNSS-SPE LLNL EMP 30m SP3
EM001	EHN	157	123 919B	37.2210	-116.0610	1.4992	NNSS-SPE LLNL EMP 30m SP3
EM001	EHE	158	123 919B	37.2210	-116.0610	1.4992	NNSS-SPE LLNL EMP 30m SP3
EM002	CFZ_04	159	4 919A	37.2207	-116.0611	1.4960	NNSS-SPE LLNL EMP 60m SP3
EM002	CFR_05	160	5 919A	37.2207	-116.0611	1.4960	NNSS-SPE LLNL EMP 60m SP3
EM002	CFT_06	161	6 919A	37.2207	-116.0611	1.4960	NNSS-SPE LLNL EMP 60m SP3
EM002	CFZ	162	4 90B4	37.2207	-116.0611	1.4960	NNSS-SPE LLNL EMP 60m SP3
EM002	CFR	163	5 90B4	37.2207	-116.0611	1.4960	NNSS-SPE LLNL EMP 60m SP3
EM002	CFT	164	6 90B4	37.2207	-116.0611	1.4960	NNSS-SPE LLNL EMP 60m SP3
EM002	CHZ	165	456 90B4	37.2207	-116.0611	1.4960	NNSS-SPE LLNL EMP 60m SP3
EM002	EHN	166	456 90B4	37.2207	-116.0611	1.4960	NNSS-SPE LLNL EMP 60m SP3
EM002	EHE	167	456 90B4	37.2207	-116.0611	1.4960	NNSS-SPE LLNL EMP 60m SP3
EN001	GDF_01	4892	01-01A 01	37.2134	-116.0577	1.4745	NNSS-SPE DTRA FCA Site 01
EN001	GDF_02	4893	01-02A 01	37.2134	-116.0577	1.4745	NNSS-SPE DTRA FCA Site 01
EN001	GDF_03	4894	01-03A 01	37.2134	-116.0577	1.4745	NNSS-SPE DTRA FCA Site 01
EN001	GDF_04	4895	01-04A 01	37.2134	-116.0577	1.4745	NNSS-SPE DTRA FCA Site 01
EN001	GDF_05	4896	01-05P 01	37.2134	-116.0577	1.4745	NNSS-SPE DTRA FCA Site 01
EN001	GDF_06	4897	01-06A 01	37.2134	-116.0577	1.4745	NNSS-SPE DTRA FCA Site 01
EN001	GDF_07	4898	01-07A 01	37.2134	-116.0577	1.4745	NNSS-SPE DTRA FCA Site 01
EN001	GDF_08	4899	01-08A 01	37.2134	-116.0577	1.4745	NNSS-SPE DTRA FCA Site 01
EN001	GDF_09	4900	01-09A 01	37.2134	-116.0577	1.4745	NNSS-SPE DTRA FCA Site 01
EN001	GLZ	4901	01-10S 01	37.2134	-116.0577	1.4745	NNSS-SPE DTRA FCA Site 01
EN002	GDF_01	4902	02-01A 02	37.1771	-116.0543	1.3114	NNSS-SPE DTRA FCA Site 02
EN002	GDF_02	4903	02-02A 02	37.1771	-116.0543	1.3114	NNSS-SPE DTRA FCA Site 02
EN002	GDF_03	4904	02-03A 02	37.1771	-116.0543	1.3114	NNSS-SPE DTRA FCA Site 02
EN002	GDF_04	4905	02-04A 02	37.1771	-116.0543	1.3114	NNSS-SPE DTRA FCA Site 02

Appendix 7
Selected Metadata for SPE-6 Surface Stations

Station ID	Channel	Channel ID	Description	Estimated Latitude	Estimated Longitude	Elevation km (amsl)	Location
EN002	GDF_05	4906	02-05P 02	37.1771	-116.0543	1.3114	NNSS-SPE DTRA FCA Site 02
EN002	GDF_06	4907	02-06A 02	37.1771	-116.0543	1.3114	NNSS-SPE DTRA FCA Site 02
EN002	GDF_07	4908	02-07A 02	37.1771	-116.0543	1.3114	NNSS-SPE DTRA FCA Site 02
EN002	GDF_08	4909	02-08A 02	37.1771	-116.0543	1.3114	NNSS-SPE DTRA FCA Site 02
EN002	GDF_09	4910	02-09A 02	37.1771	-116.0543	1.3114	NNSS-SPE DTRA FCA Site 02
EN002	GLZ	4911	02-10S 02	37.1771	-116.0543	1.3114	NNSS-SPE DTRA FCA Site 02
EN003	GDF_01	4912	03-01A 03	37.1321	-116.0593	1.2938	NNSS-SPE DTRA FCA Site 03
EN003	GDF_02	4913	03-02A 03	37.1321	-116.0593	1.2938	NNSS-SPE DTRA FCA Site 03
EN003	GDF_03	4914	03-03A 03	37.1321	-116.0593	1.2938	NNSS-SPE DTRA FCA Site 03
EN003	GDF_04	4915	03-04A 03	37.1321	-116.0593	1.2938	NNSS-SPE DTRA FCA Site 03
EN003	GDF_05	4916	03-05P 03	37.1321	-116.0593	1.2938	NNSS-SPE DTRA FCA Site 03
EN003	GDF_06	4917	03-06A 03	37.1321	-116.0593	1.2938	NNSS-SPE DTRA FCA Site 03
EN003	GDF_07	4918	03-07A 03	37.1321	-116.0593	1.2938	NNSS-SPE DTRA FCA Site 03
EN003	GDF_08	4919	03-08A 03	37.1321	-116.0593	1.2938	NNSS-SPE DTRA FCA Site 03
EN003	GDF_09	4920	03-09A 03	37.1321	-116.0593	1.2938	NNSS-SPE DTRA FCA Site 03
EN003	GLZ	4921	03-10S 03	37.1321	-116.0593	1.2938	NNSS-SPE DTRA FCA Site 03
EN004	GDF_01	4922	04-01A 04	37.2159	-116.1612	1.6670	NNSS-SPE DTRA FCA Site 04
EN004	GDF_02	4923	04-02A 04	37.2159	-116.1612	1.6670	NNSS-SPE DTRA FCA Site 04
EN004	GDF_03	4924	04-03A 04	37.2159	-116.1612	1.6670	NNSS-SPE DTRA FCA Site 04
EN004	GDF_04	4925	04-04A 04	37.2159	-116.1612	1.6670	NNSS-SPE DTRA FCA Site 04
EN004	GDF_05	4926	04-05P 04	37.2159	-116.1612	1.6670	NNSS-SPE DTRA FCA Site 04
EN004	GDF_06	4927	04-06A 04	37.2159	-116.1612	1.6670	NNSS-SPE DTRA FCA Site 04
EN004	GDF_07	4928	04-07A 04	37.2159	-116.1612	1.6670	NNSS-SPE DTRA FCA Site 04
EN004	GDF_08	4929	04-08A 04	37.2159	-116.1612	1.6670	NNSS-SPE DTRA FCA Site 04
EN004	GDF_09	4930	04-09A 04	37.2159	-116.1612	1.6670	NNSS-SPE DTRA FCA Site 04
EN004	GLZ	4931	04-10S 04	37.2159	-116.1612	1.6670	NNSS-SPE DTRA FCA Site 04
FMW	EHZ	5284	3334 0699	36.9021	-116.3697	1.1460	Forty Mile Wash, NTS, Nevada w84
FMW	SHZ	5285	3334 0699	36.9021	-116.3697	1.1460	Forty Mile Wash, NTS, Nevada w84
FMW	EHN	5286	3285 0699	36.9021	-116.3697	1.1460	Forty Mile Wash, NTS, Nevada w84
FMW	SHN	5287	3285 0699	36.9021	-116.3697	1.1460	Forty Mile Wash, NTS, Nevada w84
FMW	EHE	5288	3403 0699	36.9021	-116.3697	1.1460	Forty Mile Wash, NTS, Nevada w84

Appendix 7
Selected Metadata for SPE-6 Surface Stations

Station ID	Channel	Channel ID	Description	Estimated Latitude	Estimated Longitude	Elevation km (amsl)	Location
FMW	SHE	5289	3403 0699	36.9021	-116.3697	1.1460	Forty Mile Wash, NTS, Nevada w84
FMW	EHZ	5290	3334 0985C	36.9021	-116.3697	1.1460	Forty Mile Wash, NTS, Nevada w84
FMW	EHN	5291	3285 0985C	36.9021	-116.3697	1.1460	Forty Mile Wash, NTS, Nevada w84
FMW	EHE	5292	3403 0985C	36.9021	-116.3697	1.1460	Forty Mile Wash, NTS, Nevada w84
FMW	EHZ	5293	3334 Q3219	36.9021	-116.3697	1.1460	Forty Mile Wash, NTS, Nevada w84
FMW	EHN	5294	3285 Q3219	36.9021	-116.3697	1.1460	Forty Mile Wash, NTS, Nevada w84
FMW	EHE	5295	3403 Q3219	36.9021	-116.3697	1.1460	Forty Mile Wash, NTS, Nevada w84
FMW	EHE	5296	3382 Q3219	36.9021	-116.3697	1.1460	Forty Mile Wash, NTS, Nevada w84
FO001	CLZ	168	95 9DBB	37.1842	-116.1430	1.5273	NNSS-SPE SP4 Fiber Optic site 01
FO001	CL1	169	95 9DBB	37.1842	-116.1430	1.5273	NNSS-SPE SP4 Fiber Optic site 01
FO001	CL2	170	95 9DBB	37.1842	-116.1430	1.5273	NNSS-SPE SP4 Fiber Optic site 01
FO002	CLZ	171	63-08 B3D0	37.1001	-116.1453	1.4411	NNSS-SPE SP4 Fiber Optic site 02
FO002	CL1	172	63-08 B3D0	37.1001	-116.1453	1.4411	NNSS-SPE SP4 Fiber Optic site 02
FO002	CL2	173	63-08 B3D0	37.1001	-116.1453	1.4411	NNSS-SPE SP4 Fiber Optic site 02
FO003	CLZ	174	63-10 B3D4	37.0207	-116.1138	1.3001	NNSS-SPE SP4 Fiber Optic site 03
FO003	CL1	175	63-10 B3D4	37.0207	-116.1138	1.3001	NNSS-SPE SP4 Fiber Optic site 03
FO003	CL2	176	63-10 B3D4	37.0207	-116.1138	1.3001	NNSS-SPE SP4 Fiber Optic site 03
FO004	CLZ	177	46 B2D0	36.9536	-116.0546	1.2156	NNSS-SPE SP4 Fiber Optic site 04
FO004	CL1	178	46 B2D0	36.9536	-116.0546	1.2156	NNSS-SPE SP4 Fiber Optic site 04
FO004	CL2	179	46 B2D0	36.9536	-116.0546	1.2156	NNSS-SPE SP4 Fiber Optic site 04
FRG	EHZ	5297	3548 0698	36.8169	-116.4204	1.1550	Fran Ridge, NTS, Nevada w84
FRG	SHZ	5298	3548 0698	36.8169	-116.4204	1.1550	Fran Ridge, NTS, Nevada w84
FRG	EHN	5299	3380 0698	36.8169	-116.4204	1.1550	Fran Ridge, NTS, Nevada w84
FRG	SHN	5300	3380 0698	36.8169	-116.4204	1.1550	Fran Ridge, NTS, Nevada w84
FRG	EHE	5301	3402 0698	36.8169	-116.4204	1.1550	Fran Ridge, NTS, Nevada w84
FRG	SHE	5302	3402 0698	36.8169	-116.4204	1.1550	Fran Ridge, NTS, Nevada w84
FRG	HGZ	5303	0232 0698	36.8169	-116.4204	1.1550	Fran Ridge, NTS, Nevada w84
FRG	HGN	5304	0232 0698	36.8169	-116.4204	1.1550	Fran Ridge, NTS, Nevada w84
FRG	HGE	5305	0232 0698	36.8169	-116.4204	1.1550	Fran Ridge, NTS, Nevada w84
FRG	EHZ	5306	3548 09AEA	36.8169	-116.4204	1.1550	Fran Ridge, NTS, Nevada w84
FRG	EHN	5307	3380 09AEA	36.8169	-116.4204	1.1550	Fran Ridge, NTS, Nevada w84

Appendix 7
Selected Metadata for SPE-6 Surface Stations

Station ID	Channel	Channel ID	Description	Estimated Latitude	Estimated Longitude	Elevation km (amsl)	Location
FRG	EHE	5308	3402 09AEA	36.8169	-116.4204	1.1550	Fran Ridge, NTS, Nevada w84
FRG	HGZ	5309	0093 09AEA	36.8169	-116.4204	1.1550	Fran Ridge, NTS, Nevada w84
FRG	HGN	5310	0093 09AEA	36.8169	-116.4204	1.1550	Fran Ridge, NTS, Nevada w84
FRG	HGE	5311	0093 09AEA	36.8169	-116.4204	1.1550	Fran Ridge, NTS, Nevada w84
FRG	EHZ	5312	3548 Q3263	36.8169	-116.4204	1.1550	Fran Ridge, NTS, Nevada w84
FRG	EHN	5313	3380 Q3263	36.8169	-116.4204	1.1550	Fran Ridge, NTS, Nevada w84
FRG	EHE	5314	3402 Q3263	36.8169	-116.4204	1.1550	Fran Ridge, NTS, Nevada w84
FRG	HGZ	5315	0093 Q3263	36.8169	-116.4204	1.1550	Fran Ridge, NTS, Nevada w84
FRG	HGN	5316	0093 Q3263	36.8169	-116.4204	1.1550	Fran Ridge, NTS, Nevada w84
FRG	HGE	5317	0093 Q3263	36.8169	-116.4204	1.1550	Fran Ridge, NTS, Nevada w84
GMN	EHZ	5867	0000 0000	37.3003	-117.2607	2.1680	Gold Mountain, NV, USA
GMN	EHN	5868	0000 0000	37.3003	-117.2607	2.1680	Gold Mountain, NV, USA
GMN	EHZ	5869	0000 0000	37.3003	-117.2607	2.1680	Gold Mountain, NV, USA
GMN	EHN	5870	0000 0000	37.3003	-117.2607	2.1680	Gold Mountain, NV, USA
GMN	EHZ	5871	0000 0000	37.3003	-117.2607	2.1680	Gold Mountain, NV, USA
GMN	EHN	5872	0000 0000	37.3003	-117.2607	2.1680	Gold Mountain, NV, USA
GMN	EHZ	5873	0000 0000	37.3003	-117.2607	2.1680	Gold Mountain, NV, USA
GMN	EHN	5874	0000 0000	37.3003	-117.2607	2.1680	Gold Mountain, NV, USA
GMN	SHZ	5875	0000 0000	37.3003	-117.2607	2.1680	Gold Mountain, NV, USA
GMN	SHN	5876	0000 0000	37.3003	-117.2607	2.1680	Gold Mountain, NV, USA
GMN	SHZ	5877	0000 121	37.3003	-117.2607	2.1680	Gold Mountain, NV, USA
GMN	SHN	5878	0000 121	37.3003	-117.2607	2.1680	Gold Mountain, NV, USA
GMN	EHZ	5879	0000 121	37.3003	-117.2607	2.1680	Gold Mountain, NV, USA
GMN	EHN	5880	0000 121	37.3003	-117.2607	2.1680	Gold Mountain, NV, USA
GMN	HHZ	5881	3284 D1A0	37.3003	-117.2607	2.1680	Gold Mountain, NV, USA
GMN	HHN	5882	3284 D1A0	37.3003	-117.2607	2.1680	Gold Mountain, NV, USA
GMN	HHE	5883	3284 D1A0	37.3003	-117.2607	2.1680	Gold Mountain, NV, USA
GWY	SHZ	5884	3658 0000	36.1859	-116.6697	1.5575	Greenwater Valley, CA. (GPS 03/05/2015) w84gm
GWY	EHZ	5885	3658 0000	36.1859	-116.6697	1.5575	Greenwater Valley, CA. (GPS 03/05/2015) w84gm
GWY	EHZ	5886	3658 0000	36.1859	-116.6697	1.5575	Greenwater Valley, CA. (GPS 03/05/2015) w84gm
GWY	SHZ	5887	3658 0000	36.1859	-116.6697	1.5575	Greenwater Valley, CA. (GPS 03/05/2015) w84gm

Appendix 7
Selected Metadata for SPE-6 Surface Stations

Station ID	Channel	Channel ID	Description	Estimated Latitude	Estimated Longitude	Elevation km (amsl)	Location
GWY	EHZ	5888	3658 159	36.1859	-116.6697	1.5575	Greenwater Valley, CA. (GPS 03/05/2015) w84gm
GWY	HHZ	5889	001840 Q3239	36.1859	-116.6697	1.5575	Greenwater Valley, CA. (GPS 03/05/2015) w84gm
GWY	HHN	5890	001840 Q3239	36.1859	-116.6697	1.5575	Greenwater Valley, CA. (GPS 03/05/2015) w84gm
GWY	HHE	5891	001840 Q3239	36.1859	-116.6697	1.5575	Greenwater Valley, CA. (GPS 03/05/2015) w84gm
HEL	EHZ	5318	3290 1216	36.7246	-116.9759	0.7470	Hell's Gate, California w84
HEL	SHZ	5319	3290 1216	36.7246	-116.9759	0.7470	Hell's Gate, California w84
HEL	EHN	5320	3244 1216	36.7246	-116.9759	0.7470	Hell's Gate, California w84
HEL	SHN	5321	3244 1216	36.7246	-116.9759	0.7470	Hell's Gate, California w84
HEL	EHE	5322	3393 1216	36.7246	-116.9759	0.7470	Hell's Gate, California w84
HEL	SHE	5323	3393 1216	36.7246	-116.9759	0.7470	Hell's Gate, California w84
HEL	HHZ	5324	001819 3237	36.7246	-116.9759	0.7470	Hell's Gate, California w84
HEL	HHN	5325	001819 3237	36.7246	-116.9759	0.7470	Hell's Gate, California w84
HEL	HHE	5326	001819 3237	36.7246	-116.9759	0.7470	Hell's Gate, California w84
HEL	HNZ	5327	3276 3237	36.7246	-116.9759	0.7470	Hell's Gate, California w84
HEL	HNN	5328	3276 3237	36.7246	-116.9759	0.7470	Hell's Gate, California w84
HEL	HNE	5329	3276 3237	36.7246	-116.9759	0.7470	Hell's Gate, California w84
ION4	HHZ	5892	2969 D127	38.8851	-117.7380	1.9720	lone, NV, USA
ION4	HHN	5893	2969 D127	38.8851	-117.7380	1.9720	lone, NV, USA
ION4	HHE	5894	2969 D127	38.8851	-117.7380	1.9720	lone, NV, USA
IS11	CDF_01	4969	11 AA83	37.2235	-116.0614	1.5451	NNSS-SPE Sandia Inf 250 m N
IS11	CDF_01	4970	02 1010	37.2235	-116.0614	1.5451	NNSS-SPE Sandia Inf 250 m N
IS11	CDF_01	4971	03 BCE5	37.2235	-116.0614	1.5451	NNSS-SPE Sandia Inf 250 m N
IS12	CDF_02	4972	12 AA83	37.2234	-116.0611	1.5419	NNSS-SPE Sandia Inf 233 m N
IS12	CDF_02	4973	31 1010	37.2234	-116.0611	1.5419	NNSS-SPE Sandia Inf 233 m N
IS12	CDF_02	4974	04 BCE5	37.2234	-116.0611	1.5419	NNSS-SPE Sandia Inf 233 m N
IS13	CDF_03	4975	13 AA83	37.2232	-116.0609	1.5385	NNSS-SPE Sandia Inf 208 m N
IS13	CDF_03	4976	32 1010	37.2232	-116.0609	1.5385	NNSS-SPE Sandia Inf 208 m N
IS13	CDF_03	4977	09 BCE5	37.2232	-116.0609	1.5385	NNSS-SPE Sandia Inf 208 m N
IS14	CDF_04	4978	14 AA83	37.2232	-116.0614	1.5451	NNSS-SPE Sandia Inf 218 m N
IS14	CDF_05	4979	15 AA83	37.2232	-116.0614	1.5451	NNSS-SPE Sandia Inf 218 m N
IS14	CDF_04	4980	35 1010	37.2232	-116.0614	1.5451	NNSS-SPE Sandia Inf 218 m N

Appendix 7
Selected Metadata for SPE-6 Surface Stations

Station ID	Channel	Channel ID	Description	Estimated Latitude	Estimated Longitude	Elevation km (amsl)	Location
IS14	CDF_04	4981	35 BCE5	37.2232	-116.0614	1.5451	NNSS-SPE Sandia Inf 218 m N
IS14	CDF_05	4982	08 BCE5	37.2232	-116.0614	1.5451	NNSS-SPE Sandia Inf 218 m N
IS21	CDF_01	4983	21 AC19	37.2193	-116.0604	1.5138	NNSS-SPE Sandia Inf 226 m S
IS21	CDF_01	4984	38 1024	37.2193	-116.0604	1.5138	NNSS-SPE Sandia Inf 226 m S
IS21	CDF_01	4985	38 D14C	37.2193	-116.0604	1.5138	NNSS-SPE Sandia Inf 226 m S
IS22	CDF_02	4986	22 AC19	37.2190	-116.0605	1.5163	NNSS-SPE Sandia Inf 251 m S
IS22	CDF_02	4987	07 1024	37.2190	-116.0605	1.5163	NNSS-SPE Sandia Inf 251 m S
IS22	CDF_02	4988	07 D14C	37.2190	-116.0605	1.5163	NNSS-SPE Sandia Inf 251 m S
IS23	CDF_03	4989	23 AC19	37.2189	-116.0603	1.5120	NNSS-SPE Sandia Inf 271 m S
IS23	CDF_03	4990	24 1024	37.2189	-116.0603	1.5120	NNSS-SPE Sandia Inf 271 m S
IS23	CDF_03	4991	24 D14C	37.2189	-116.0603	1.5120	NNSS-SPE Sandia Inf 271 m S
IS24	CDF_04	4992	24 AC19	37.2188	-116.0608	1.5182	NNSS-SPE Sandia Inf 270 m S
IS24	CDF_05	4993	25 AC19	37.2188	-116.0608	1.5182	NNSS-SPE Sandia Inf 270 m S
IS24	CDF_04	4994	09 1024	37.2188	-116.0608	1.5182	NNSS-SPE Sandia Inf 270 m S
IS24	CDF_04	4995	09 D14C	37.2188	-116.0608	1.5182	NNSS-SPE Sandia Inf 270 m S
IS31	CDF_01	4996	31 90CF	37.2219	-116.0635	1.5704	NNSS-SPE Sandia Inf 249 m W
IS31	CDF_01	4997	33 1027	37.2219	-116.0635	1.5704	NNSS-SPE Sandia Inf 249 m W
IS32	CDF_02	4998	32 90CF	37.2217	-116.0636	1.5659	NNSS-SPE Sandia Inf 251 m W
IS32	CDF_02	4999	21 1027	37.2217	-116.0636	1.5659	NNSS-SPE Sandia Inf 251 m W
IS33	CDF_03	5000	33 90CF	37.2215	-116.0634	1.5597	NNSS-SPE Sandia Inf 229 m W
IS33	CDF_03	5001	43 1027	37.2215	-116.0634	1.5597	NNSS-SPE Sandia Inf 229 m W
IS34	CDF_04	5002	34 90CF	37.2215	-116.0638	1.5627	NNSS-SPE Sandia Inf 261 m W
IS34	CDF_05	5003	35 90CF	37.2215	-116.0638	1.5627	NNSS-SPE Sandia Inf 261 m W
IS34	CDF_04	5004	46 1027	37.2215	-116.0638	1.5627	NNSS-SPE Sandia Inf 261 m W
IS41	CDF_01	5005	41 AC1C	37.2235	-116.0579	1.5325	NNSS-SPE Sandia Inf 363 m E
IS41	CDF_01	5006	29 1035	37.2235	-116.0579	1.5325	NNSS-SPE Sandia Inf 363 m E
IS42	CDF_02	5007	42 AC1C	37.2233	-116.0580	1.5315	NNSS-SPE Sandia Inf 339 m E
IS42	CDF_02	5008	47 1035	37.2233	-116.0580	1.5315	NNSS-SPE Sandia Inf 339 m E
IS42	CDF_02	5009	001 1035	37.2233	-116.0580	1.5315	NNSS-SPE Sandia Inf 339 m E
IS43	CDF_03	5010	43 AC1C	37.2232	-116.0576	1.5301	NNSS-SPE Sandia Inf 353 m E
IS43	CDF_03	5011	03 1035	37.2232	-116.0576	1.5301	NNSS-SPE Sandia Inf 353 m E

Appendix 7
Selected Metadata for SPE-6 Surface Stations

Station ID	Channel	Channel ID	Description	Estimated Latitude	Estimated Longitude	Elevation km (amsl)	Location
IS43	CDF_03	5012	014 1035	37.2232	-116.0576	1.5301	NNSS-SPE Sandia Inf 353 m E
IS44	CDF_04	5013	44 AC1C	37.2233	-116.0582	1.5301	NNSS-SPE Sandia Inf 320 m E
IS44	CDF_05	5014	45 AC1C	37.2233	-116.0582	1.5301	NNSS-SPE Sandia Inf 320 m E
IS44	CDF_04	5015	05 1035	37.2233	-116.0582	1.5301	NNSS-SPE Sandia Inf 320 m E
IS44	CDF_04	5016	013 1035	37.2233	-116.0582	1.5301	NNSS-SPE Sandia Inf 320 m E
IS44	LWS_05	5017	14141 1035	37.2233	-116.0582	1.5301	NNSS-SPE Sandia Inf 320 m E
IS44	LWD_06	5018	14141 1035	37.2233	-116.0582	1.5301	NNSS-SPE Sandia Inf 320 m E
IS51	CDF_01	5019	51 AC04	37.1776	-116.0541	1.3107	NNSS-SPE Sandia Inf 5 Km S
IS51	CDF_01	5020	11 1057	37.1776	-116.0541	1.3107	NNSS-SPE Sandia Inf 5 Km S
IS52	CDF_02	5021	52 AC04	37.1773	-116.0542	1.3107	NNSS-SPE Sandia Inf 5 Km S
IS52	CDF_02	5022	42 1057	37.1773	-116.0542	1.3107	NNSS-SPE Sandia Inf 5 Km S
IS53	CDF_03	5023	53 AC04	37.1771	-116.0540	1.3107	NNSS-SPE Sandia Inf 5 Km S
IS53	CDF_03	5024	45 1057	37.1771	-116.0540	1.3107	NNSS-SPE Sandia Inf 5 Km S
IS54	CDF_04	5025	54 AC04	37.1773	-116.0545	1.3106	NNSS-SPE Sandia Inf 5 Km S
IS54	CDF_05	5026	55 AC04	37.1773	-116.0545	1.3106	NNSS-SPE Sandia Inf 5 Km S
IS54	CDF_04	5027	40 1057	37.1773	-116.0545	1.3106	NNSS-SPE Sandia Inf 5 Km S
IS61	CDF_01	5028	61 AABB	37.2125	-116.0595	1.4833	NNSS-SPE Sandia Inf 1 Km S
IS61	CDF_01	5029	39 1058	37.2125	-116.0595	1.4833	NNSS-SPE Sandia Inf 1 Km S
IS62	CDF_02	5030	62 AABB	37.2122	-116.0594	1.4826	NNSS-SPE Sandia Inf 1 Km S
IS62	CDF_02	5031	04 1058	37.2122	-116.0594	1.4826	NNSS-SPE Sandia Inf 1 Km S
IS63	CDF_03	5032	63 AABB	37.2123	-116.0591	1.4809	NNSS-SPE Sandia Inf 1 Km S
IS63	CDF_03	5033	30 1058	37.2123	-116.0591	1.4809	NNSS-SPE Sandia Inf 1 Km S
IS64	CDF_04	5034	64 AABB	37.2121	-116.0598	1.4821	NNSS-SPE Sandia Inf 1 Km S
IS64	CDF_05	5035	65 AABB	37.2121	-116.0598	1.4821	NNSS-SPE Sandia Inf 1 Km S
IS64	CDF_04	5036	01 1058	37.2121	-116.0598	1.4821	NNSS-SPE Sandia Inf 1 Km S
IS71	CDF_01	5037	71 90D2	37.2035	-116.0581	1.4267	NNSS-SPE Sandia Inf 2 Km S
IS71	CDF_01	5038	10 1059	37.2035	-116.0581	1.4267	NNSS-SPE Sandia Inf 2 Km S
IS72	CDF_02	5039	72 90D2	37.2033	-116.0581	1.4253	NNSS-SPE Sandia Inf 2 Km S
IS72	CDF_02	5040	44 1059	37.2033	-116.0581	1.4253	NNSS-SPE Sandia Inf 2 Km S
IS73	CDF_03	5041	73 90D2	37.2033	-116.0578	1.4201	NNSS-SPE Sandia Inf 2 Km S
IS73	CDF_03	5042	36 1059	37.2033	-116.0578	1.4201	NNSS-SPE Sandia Inf 2 Km S

Appendix 7
Selected Metadata for SPE-6 Surface Stations

Station ID	Channel	Channel ID	Description	Estimated Latitude	Estimated Longitude	Elevation km (amsl)	Location
IS74	CDF_04	5043	74 90D2	37.2033	-116.0583	1.4261	NNSS-SPE Sandia Inf 2 Km S
IS74	CDF_05	5044	75 90D2	37.2033	-116.0583	1.4261	NNSS-SPE Sandia Inf 2 Km S
IS74	CDF_04	5045	37 1059	37.2033	-116.0583	1.4261	NNSS-SPE Sandia Inf 2 Km S
IS74	LWS_05	5046	14140 1059	37.2033	-116.0583	1.4261	NNSS-SPE Sandia Inf 2 Km S
IS74	LWD_06	5047	14140 1059	37.2033	-116.0583	1.4261	NNSS-SPE Sandia Inf 2 Km S
IS81	CDF_01	5048	41 1060	37.2212	-116.0494	1.4803	NNSS-SPE Sandia Inf 1 Km E
IS82	CDF_02	5049	20 1060	37.2210	-116.0494	1.4787	NNSS-SPE Sandia Inf 1 Km E
IS83	CDF_03	5050	08 1060	37.2208	-116.0491	1.4766	NNSS-SPE Sandia Inf 1 Km E
IS84	CDF_04	5051	34 1060	37.2209	-116.0497	1.4787	NNSS-SPE Sandia Inf 1 Km E
JFR2	HHZ	5052	1017 982C	36.6877	-116.1526	1.0920	Rock Valley SPE near JFR analog
JFR2	HHN	5053	1017 982C	36.6877	-116.1526	1.0920	Rock Valley SPE near JFR analog
JFR2	HHE	5054	1017 982C	36.6877	-116.1526	1.0920	Rock Valley SPE near JFR analog
JFR2	HHZ	5055	1043 982C	36.6877	-116.1526	1.0920	Rock Valley SPE near JFR analog
JFR2	HHN	5056	1043 982C	36.6877	-116.1526	1.0920	Rock Valley SPE near JFR analog
JFR2	HHE	5057	1043 982C	36.6877	-116.1526	1.0920	Rock Valley SPE near JFR analog
LEC	EHZ	5330	3291 0704	36.5627	-116.6905	1.1130	Lees Camp, California w84
LEC	SHZ	5331	3291 0704	36.5627	-116.6905	1.1130	Lees Camp, California w84
LEC	EHN	5332	3280 0704	36.5627	-116.6905	1.1130	Lees Camp, California w84
LEC	SHN	5333	3280 0704	36.5627	-116.6905	1.1130	Lees Camp, California w84
LEC	EHE	5334	3301 0704	36.5627	-116.6905	1.1130	Lees Camp, California w84
LEC	SHE	5335	3301 0704	36.5627	-116.6905	1.1130	Lees Camp, California w84
LEC	EHZ	5336	3291 09BDD	36.5627	-116.6905	1.1130	Lees Camp, California w84
LEC	EHN	5337	3280 09BDD	36.5627	-116.6905	1.1130	Lees Camp, California w84
LEC	EHE	5338	3301 09BDD	36.5627	-116.6905	1.1130	Lees Camp, California w84
LEC	EHZ	5339	3289 09BDD	36.5627	-116.6905	1.1130	Lees Camp, California w84
LSC	EHZ	5340	3340 0705	36.7306	-116.3264	1.2380	Little Skull Cliff, NTS, Nevada w84
LSC	SHZ	5341	3340 0705	36.7306	-116.3264	1.2380	Little Skull Cliff, NTS, Nevada w84
LSC	EHN	5342	3341 0705	36.7306	-116.3264	1.2380	Little Skull Cliff, NTS, Nevada w84
LSC	SHN	5343	3341 0705	36.7306	-116.3264	1.2380	Little Skull Cliff, NTS, Nevada w84
LSC	EHE	5344	3342 0705	36.7306	-116.3264	1.2380	Little Skull Cliff, NTS, Nevada w84
LSC	SHE	5345	3342 0705	36.7306	-116.3264	1.2380	Little Skull Cliff, NTS, Nevada w84

Appendix 7
Selected Metadata for SPE-6 Surface Stations

Station ID	Channel	Channel ID	Description	Estimated Latitude	Estimated Longitude	Elevation km (amsl)	Location
LSC	EHZ	5346	3340 0707	36.7306	-116.3264	1.2380	Little Skull Cliff, NTS, Nevada w84
LSC	SHZ	5347	3340 0707	36.7306	-116.3264	1.2380	Little Skull Cliff, NTS, Nevada w84
LSC	EHN	5348	3341 0707	36.7306	-116.3264	1.2380	Little Skull Cliff, NTS, Nevada w84
LSC	SHN	5349	3341 0707	36.7306	-116.3264	1.2380	Little Skull Cliff, NTS, Nevada w84
LSC	EHE	5350	3342 0707	36.7306	-116.3264	1.2380	Little Skull Cliff, NTS, Nevada w84
LSC	SHE	5351	3342 0707	36.7306	-116.3264	1.2380	Little Skull Cliff, NTS, Nevada w84
LSC	EHZ	5352	3340 0705	36.7306	-116.3264	1.2380	Little Skull Cliff, NTS, Nevada w84
LSC	SHZ	5353	3340 0705	36.7306	-116.3264	1.2380	Little Skull Cliff, NTS, Nevada w84
LSC	EHN	5354	3341 0705	36.7306	-116.3264	1.2380	Little Skull Cliff, NTS, Nevada w84
LSC	SHN	5355	3341 0705	36.7306	-116.3264	1.2380	Little Skull Cliff, NTS, Nevada w84
LSC	EHE	5356	3342 0705	36.7306	-116.3264	1.2380	Little Skull Cliff, NTS, Nevada w84
LSC	SHE	5357	3342 0705	36.7306	-116.3264	1.2380	Little Skull Cliff, NTS, Nevada w84
LSC	HGZ	5358	0237 0705	36.7306	-116.3264	1.2380	Little Skull Cliff, NTS, Nevada w84
LSC	HGN	5359	0237 0705	36.7306	-116.3264	1.2380	Little Skull Cliff, NTS, Nevada w84
LSC	HGE	5360	0237 0705	36.7306	-116.3264	1.2380	Little Skull Cliff, NTS, Nevada w84
LSC	HGZ	5361	1965 0705	36.7306	-116.3264	1.2380	Little Skull Cliff, NTS, Nevada w84
LSC	HGN	5362	1965 0705	36.7306	-116.3264	1.2380	Little Skull Cliff, NTS, Nevada w84
LSC	HGE	5363	1965 0705	36.7306	-116.3264	1.2380	Little Skull Cliff, NTS, Nevada w84
LSC	HGZ	5364	0039 0705	36.7306	-116.3264	1.2380	Little Skull Cliff, NTS, Nevada w84
LSC	HGN	5365	0039 0705	36.7306	-116.3264	1.2380	Little Skull Cliff, NTS, Nevada w84
LSC	HGE	5366	0039 0705	36.7306	-116.3264	1.2380	Little Skull Cliff, NTS, Nevada w84
LSC	EHZ	5367	3340 092D2	36.7306	-116.3264	1.2380	Little Skull Cliff, NTS, Nevada w84
LSC	EHN	5368	3341 092D2	36.7306	-116.3264	1.2380	Little Skull Cliff, NTS, Nevada w84
LSC	EHE	5369	3342 092D2	36.7306	-116.3264	1.2380	Little Skull Cliff, NTS, Nevada w84
LSC	HGZ	5370	0039 092D2	36.7306	-116.3264	1.2380	Little Skull Cliff, NTS, Nevada w84
LSC	HGN	5371	0039 092D2	36.7306	-116.3264	1.2380	Little Skull Cliff, NTS, Nevada w84
LSC	HGE	5372	0039 092D2	36.7306	-116.3264	1.2380	Little Skull Cliff, NTS, Nevada w84
LSC	HGZ	5373	3218 092D2	36.7306	-116.3264	1.2380	Little Skull Cliff, NTS, Nevada w84
LSC	HGN	5374	3218 092D2	36.7306	-116.3264	1.2380	Little Skull Cliff, NTS, Nevada w84
LSC	HGE	5375	3218 092D2	36.7306	-116.3264	1.2380	Little Skull Cliff, NTS, Nevada w84
LSC	EHZ	5376	3340 Q3275	36.7306	-116.3264	1.2380	Little Skull Cliff, NTS, Nevada w84

Appendix 7
Selected Metadata for SPE-6 Surface Stations

Station ID	Channel	Channel ID	Description	Estimated Latitude	Estimated Longitude	Elevation km (amsl)	Location
LSC	EHN	5377	3341 Q3275	36.7306	-116.3264	1.2380	Little Skull Cliff, NTS, Nevada w84
LSC	EHE	5378	3342 Q3275	36.7306	-116.3264	1.2380	Little Skull Cliff, NTS, Nevada w84
LSC	HGZ	5379	3218 Q3275	36.7306	-116.3264	1.2380	Little Skull Cliff, NTS, Nevada w84
LSC	HGN	5380	3218 Q3275	36.7306	-116.3264	1.2380	Little Skull Cliff, NTS, Nevada w84
LSC	HGE	5381	3218 Q3275	36.7306	-116.3264	1.2380	Little Skull Cliff, NTS, Nevada w84
LSC	EHZ	5382	1418 Q3275	36.7306	-116.3264	1.2380	Little Skull Cliff, NTS, Nevada w84
MCY	SHZ	5058	0000 0000	36.6618	-115.9623	1.2507	Mercury Rock Valley
MCY	EHZ	5059	0000 0000	36.6618	-115.9623	1.2507	Mercury Rock Valley
MCY	HHZ	5060	1919 982E	36.6618	-115.9623	1.2507	Mercury Rock Valley
MCY	HHN	5061	1919 982E	36.6618	-115.9623	1.2507	Mercury Rock Valley
MCY	HHE	5062	1919 982E	36.6618	-115.9623	1.2507	Mercury Rock Valley
MZPB	HHZ	5895	3282 D152	37.7008	-117.3838	2.3710	Montezuma,NV,USA analog reactivation
MZPB	HHN	5896	3282 D152	37.7008	-117.3838	2.3710	Montezuma,NV,USA analog reactivation
MZPB	HHE	5897	3282 D152	37.7008	-117.3838	2.3710	Montezuma,NV,USA analog reactivation
NCF	EHZ	5383	3286 0703	36.8899	-116.5691	1.1510	North Crater Flat, Nevada w84
NCF	SHZ	5384	3286 0703	36.8899	-116.5691	1.1510	North Crater Flat, Nevada w84
NCF	EHN	5385	3398 0703	36.8899	-116.5691	1.1510	North Crater Flat, Nevada w84
NCF	SHN	5386	3398 0703	36.8899	-116.5691	1.1510	North Crater Flat, Nevada w84
NCF	EHE	5387	3287 0703	36.8899	-116.5691	1.1510	North Crater Flat, Nevada w84
NCF	SHE	5388	3287 0703	36.8899	-116.5691	1.1510	North Crater Flat, Nevada w84
NCF	EHZ	5389	3286 09DBB	36.8899	-116.5691	1.1510	North Crater Flat, Nevada w84
NCF	EHN	5390	3398 09DBB	36.8899	-116.5691	1.1510	North Crater Flat, Nevada w84
NCF	EHE	5391	3287 09DBB	36.8899	-116.5691	1.1510	North Crater Flat, Nevada w84
NCF	EHZ	5392	3286 Q3239	36.8899	-116.5691	1.1510	North Crater Flat, Nevada w84
NCF	EHN	5393	3398 Q3239	36.8899	-116.5691	1.1510	North Crater Flat, Nevada w84
NCF	EHE	5394	3287 Q3239	36.8899	-116.5691	1.1510	North Crater Flat, Nevada w84
NSP	EHZ	5063	0000 0000	36.7278	-116.2124	1.2420	Numbskull Pass, NTS, Nevada w84
NSP	EHE	5064	0176 09834	36.7278	-116.2124	1.2420	Numbskull Pass, NTS, Nevada w84
NSP	EHN	5065	0260 09834	36.7278	-116.2124	1.2420	Numbskull Pass, NTS, Nevada w84
NSP	EHZ	5066	0154 09834	36.7278	-116.2124	1.2420	Numbskull Pass, NTS, Nevada w84
OUT1	HHZ	5898	2970 D123	38.3268	-117.5157	1.6520	Outlaw Springs Mine, Nye County, NV, USA

Appendix 7
Selected Metadata for SPE-6 Surface Stations

Station ID	Channel	Channel ID	Description	Estimated Latitude	Estimated Longitude	Elevation km (amsl)	Location
OUT1	HHN	5899	2970 D123	38.3268	-117.5157	1.6520	Outlaw Springs Mine, Nye County, NV, USA
OUT1	HHE	5900	2970 D123	38.3268	-117.5157	1.6520	Outlaw Springs Mine, Nye County, NV, USA
PIO	HNZ	5901	0038 3248	37.9472	-114.4914	1.8870	Pioche, NV, USA - NN reactivation
PIO	HNN	5902	0038 3248	37.9472	-114.4914	1.8870	Pioche, NV, USA - NN reactivation
PIO	HNE	5903	0038 3248	37.9472	-114.4914	1.8870	Pioche, NV, USA - NN reactivation
PIO	HHZ	5904	1751 3248	37.9472	-114.4914	1.8870	Pioche, NV, USA - NN reactivation
PIO	HHN	5905	1751 3248	37.9472	-114.4914	1.8870	Pioche, NV, USA - NN reactivation
PIO	HHE	5906	1751 3248	37.9472	-114.4914	1.8870	Pioche, NV, USA - NN reactivation
PIT	EHZ	5395	3305 1120	36.6798	-116.4946	0.8500	Cinder Pit, Crater Flat, Nevada w84
PIT	SHZ	5396	3305 1120	36.6798	-116.4946	0.8500	Cinder Pit, Crater Flat, Nevada w84
PIT	EHN	5397	3477 1120	36.6798	-116.4946	0.8500	Cinder Pit, Crater Flat, Nevada w84
PIT	SHN	5398	3477 1120	36.6798	-116.4946	0.8500	Cinder Pit, Crater Flat, Nevada w84
PIT	EHE	5399	3282 1120	36.6798	-116.4946	0.8500	Cinder Pit, Crater Flat, Nevada w84
PIT	SHE	5400	3282 1120	36.6798	-116.4946	0.8500	Cinder Pit, Crater Flat, Nevada w84
PIT	EHZ	5401	3305 09BDF	36.6798	-116.4946	0.8500	Cinder Pit, Crater Flat, Nevada w84
PIT	EHN	5402	3477 09BDF	36.6798	-116.4946	0.8500	Cinder Pit, Crater Flat, Nevada w84
PIT	EHE	5403	3282 09BDF	36.6798	-116.4946	0.8500	Cinder Pit, Crater Flat, Nevada w84
PUV	EHZ	5404	3189 0710	36.9494	-115.9642	1.2530	Plutonium Valley, NTS, Nevada w84
PUV	SHZ	5405	3189 0710	36.9494	-115.9642	1.2530	Plutonium Valley, NTS, Nevada w84
PUV	EHN	5406	3283 0710	36.9494	-115.9642	1.2530	Plutonium Valley, NTS, Nevada w84
PUV	SHN	5407	3283 0710	36.9494	-115.9642	1.2530	Plutonium Valley, NTS, Nevada w84
PUV	EHE	5408	3348 0710	36.9494	-115.9642	1.2530	Plutonium Valley, NTS, Nevada w84
PUV	SHE	5409	3348 0710	36.9494	-115.9642	1.2530	Plutonium Valley, NTS, Nevada w84
PUV	EHZ	5410	3189 09DBA	36.9494	-115.9642	1.2530	Plutonium Valley, NTS, Nevada w84
PUV	EHN	5411	3283 09DBA	36.9494	-115.9642	1.2530	Plutonium Valley, NTS, Nevada w84
PUV	EHE	5412	3348 09DBA	36.9494	-115.9642	1.2530	Plutonium Valley, NTS, Nevada w84
Q09A	HHZ	5907	2260 3211	38.8340	-117.1816	1.7035	Carvers, NV, USA - NN reactivation
Q09A	HHN	5908	2260 3211	38.8340	-117.1816	1.7035	Carvers, NV, USA - NN reactivation
Q09A	HHE	5909	2260 3211	38.8340	-117.1816	1.7035	Carvers, NV, USA - NN reactivation
Q11A	HHZ	5910	2957 D174	38.8455	-115.6541	1.5620	Duckwater, NV, USA - NN reactivation
Q11A	HHN	5911	2957 D174	38.8455	-115.6541	1.5620	Duckwater, NV, USA - NN reactivation

Appendix 7
Selected Metadata for SPE-6 Surface Stations

Station ID	Channel	Channel ID	Description	Estimated Latitude	Estimated Longitude	Elevation km (amsl)	Location
Q11A	HHE	5912	2957 D174	38.8455	-115.6541	1.5620	Duckwater, NV, USA - NN reactivation
Q12A	HHZ	5913	2098 3238	39.0400	-114.8299	1.6250	Willow Creek Ranch, Ely, NV, USA - NN reactivation
Q12A	HHN	5914	2098 3238	39.0400	-114.8299	1.6250	Willow Creek Ranch, Ely, NV, USA - NN reactivation
Q12A	HHE	5915	2098 3238	39.0400	-114.8299	1.6250	Willow Creek Ranch, Ely, NV, USA - NN reactivation
QSM	EHZ	5916	0000 0000	35.9650	-116.8691	0.3850	Queen of Sheba Mine, CA. (GPS 01/17/2001) w84gm
QSM	EHZ	5917	0000 0000	35.9650	-116.8691	0.3850	Queen of Sheba Mine, CA. (GPS 01/17/2001) w84gm
QSM	EHZ	5918	0000 0000	35.9650	-116.8691	0.3850	Queen of Sheba Mine, CA. (GPS 01/17/2001) w84gm
QSM	SHZ	5919	0000 0000	35.9650	-116.8691	0.3850	Queen of Sheba Mine, CA. (GPS 01/17/2001) w84gm
QSM	EHZ	5920	0000 111	35.9650	-116.8691	0.3850	Queen of Sheba Mine, CA. (GPS 01/17/2001) w84gm
QSM	HHZ	5921	001827 3222	35.9650	-116.8691	0.3850	Queen of Sheba Mine, CA. (GPS 01/17/2001) w84gm
QSM	HHN	5922	001827 3222	35.9650	-116.8691	0.3850	Queen of Sheba Mine, CA. (GPS 01/17/2001) w84gm
QSM	HHE	5923	001827 3222	35.9650	-116.8691	0.3850	Queen of Sheba Mine, CA. (GPS 01/17/2001) w84gm
R09A	HHZ	5924	3075 D126	38.2397	-117.0718	1.7590	Junk Yard, Tonopah, NV, USA - NN reactivation
R09A	HHN	5925	3075 D126	38.2397	-117.0718	1.7590	Junk Yard, Tonopah, NV, USA - NN reactivation
R09A	HHE	5926	3075 D126	38.2397	-117.0718	1.7590	Junk Yard, Tonopah, NV, USA - NN reactivation
R10A	HHZ	5927	3125 D11D	38.2886	-116.3021	1.6000	Warm Springs, NV, USA - NN reactivation
R10A	HHN	5928	3125 D11D	38.2886	-116.3021	1.6000	Warm Springs, NV, USA - NN reactivation
R10A	HHE	5929	3125 D11D	38.2886	-116.3021	1.6000	Warm Springs, NV, USA - NN reactivation
RED	EHZ	5413	3565 0755	36.6895	-116.0939	1.1400	Red Mountain,NTS, Nevada w84gm
RED	SHZ	5414	3565 0755	36.6895	-116.0939	1.1400	Red Mountain,NTS, Nevada w84gm
RED	EHN	5415	3566 0755	36.6895	-116.0939	1.1400	Red Mountain,NTS, Nevada w84gm
RED	SHN	5416	3566 0755	36.6895	-116.0939	1.1400	Red Mountain,NTS, Nevada w84gm
RED	EHE	5417	3563 0755	36.6895	-116.0939	1.1400	Red Mountain,NTS, Nevada w84gm
RED	SHE	5418	3563 0755	36.6895	-116.0939	1.1400	Red Mountain,NTS, Nevada w84gm
RED	EHZ	5419	3565 09839	36.6895	-116.0939	1.1400	Red Mountain,NTS, Nevada w84gm
RED	EHN	5420	3566 09839	36.6895	-116.0939	1.1400	Red Mountain,NTS, Nevada w84gm
RED	EHE	5421	3563 09839	36.6895	-116.0939	1.1400	Red Mountain,NTS, Nevada w84gm
RPY	HHZ	5422	4063 0758	36.8515	-116.4572	1.3010	Repository, NTS, Nevada w84mg
RPY	HHN	5423	4063 0758	36.8515	-116.4572	1.3010	Repository, NTS, Nevada w84mg
RPY	HHE	5424	4063 0758	36.8515	-116.4572	1.3010	Repository, NTS, Nevada w84mg
RPY	BHZ	5425	4063 0758	36.8515	-116.4572	1.3010	Repository, NTS, Nevada w84mg

Appendix 7
Selected Metadata for SPE-6 Surface Stations

Station ID	Channel	Channel ID	Description	Estimated Latitude	Estimated Longitude	Elevation km (amsl)	Location
RPY	BHN	5426	4063 0758	36.8515	-116.4572	1.3010	Repository, NTS, Nevada w84mg
RPY	BHE	5427	4063 0758	36.8515	-116.4572	1.3010	Repository, NTS, Nevada w84mg
RPY	HHZ	5428	4059 0758	36.8515	-116.4572	1.3010	Repository, NTS, Nevada w84mg
RPY	HHN	5429	4059 0758	36.8515	-116.4572	1.3010	Repository, NTS, Nevada w84mg
RPY	HHE	5430	4059 0758	36.8515	-116.4572	1.3010	Repository, NTS, Nevada w84mg
RPY	BHZ	5431	4059 0758	36.8515	-116.4572	1.3010	Repository, NTS, Nevada w84mg
RPY	BHN	5432	4059 0758	36.8515	-116.4572	1.3010	Repository, NTS, Nevada w84mg
RPY	BHE	5433	4059 0758	36.8515	-116.4572	1.3010	Repository, NTS, Nevada w84mg
RPY	EHZ	5434	unkn 0758	36.8515	-116.4572	1.3010	Repository, NTS, Nevada w84mg
RPY	EHN	5435	unkn 0758	36.8515	-116.4572	1.3010	Repository, NTS, Nevada w84mg
RPY	EHE	5436	unkn 0758	36.8515	-116.4572	1.3010	Repository, NTS, Nevada w84mg
RPY	HHZ	5437	4059 0999	36.8515	-116.4572	1.3010	Repository, NTS, Nevada w84mg
RPY	HHN	5438	4059 0999	36.8515	-116.4572	1.3010	Repository, NTS, Nevada w84mg
RPY	HHE	5439	4059 0999	36.8515	-116.4572	1.3010	Repository, NTS, Nevada w84mg
RPY	BHZ	5440	4059 0999	36.8515	-116.4572	1.3010	Repository, NTS, Nevada w84mg
RPY	BHN	5441	4059 0999	36.8515	-116.4572	1.3010	Repository, NTS, Nevada w84mg
RPY	BHE	5442	4059 0999	36.8515	-116.4572	1.3010	Repository, NTS, Nevada w84mg
RPY	EHZ	5443	unkn 0999	36.8515	-116.4572	1.3010	Repository, NTS, Nevada w84mg
RPY	EHN	5444	unkn 0999	36.8515	-116.4572	1.3010	Repository, NTS, Nevada w84mg
RPY	EHE	5445	unkn 0999	36.8515	-116.4572	1.3010	Repository, NTS, Nevada w84mg
RPY	HGZ	5446	0230 0999	36.8515	-116.4572	1.3010	Repository, NTS, Nevada w84mg
RPY	HGN	5447	0230 0999	36.8515	-116.4572	1.3010	Repository, NTS, Nevada w84mg
RPY	HGE	5448	0230 0999	36.8515	-116.4572	1.3010	Repository, NTS, Nevada w84mg
RPY	EHZ	5449	3551 0999	36.8515	-116.4572	1.3010	Repository, NTS, Nevada w84mg
RPY	SHZ	5450	3551 0999	36.8515	-116.4572	1.3010	Repository, NTS, Nevada w84mg
RPY	EHN	5451	3553 0999	36.8515	-116.4572	1.3010	Repository, NTS, Nevada w84mg
RPY	SHN	5452	3553 0999	36.8515	-116.4572	1.3010	Repository, NTS, Nevada w84mg
RPY	EHE	5453	3306 0999	36.8515	-116.4572	1.3010	Repository, NTS, Nevada w84mg
RPY	SHE	5454	3306 0999	36.8515	-116.4572	1.3010	Repository, NTS, Nevada w84mg
RPY	HGZ	5455	0230 0711	36.8515	-116.4572	1.3010	Repository, NTS, Nevada w84mg
RPY	HGN	5456	0230 0711	36.8515	-116.4572	1.3010	Repository, NTS, Nevada w84mg

Appendix 7
Selected Metadata for SPE-6 Surface Stations

Station ID	Channel	Channel ID	Description	Estimated Latitude	Estimated Longitude	Elevation km (amsl)	Location
RPY	HGE	5457	0230 0711	36.8515	-116.4572	1.3010	Repository, NTS, Nevada w84mg
RPY	EHZ	5458	3551 0711	36.8515	-116.4572	1.3010	Repository, NTS, Nevada w84mg
RPY	SHZ	5459	3551 0711	36.8515	-116.4572	1.3010	Repository, NTS, Nevada w84mg
RPY	EHN	5460	3553 0711	36.8515	-116.4572	1.3010	Repository, NTS, Nevada w84mg
RPY	SHN	5461	3553 0711	36.8515	-116.4572	1.3010	Repository, NTS, Nevada w84mg
RPY	EHE	5462	3306 0711	36.8515	-116.4572	1.3010	Repository, NTS, Nevada w84mg
RPY	SHE	5463	3306 0711	36.8515	-116.4572	1.3010	Repository, NTS, Nevada w84mg
RPY	EHZ	5464	3551 092D2	36.8515	-116.4572	1.3010	Repository, NTS, Nevada w84mg
RPY	EHN	5465	3553 092D2	36.8515	-116.4572	1.3010	Repository, NTS, Nevada w84mg
RPY	EHE	5466	3306 092D2	36.8515	-116.4572	1.3010	Repository, NTS, Nevada w84mg
RPY	HGZ	5467	0082 092D2	36.8515	-116.4572	1.3010	Repository, NTS, Nevada w84mg
RPY	HGN	5468	0082 092D2	36.8515	-116.4572	1.3010	Repository, NTS, Nevada w84mg
RPY	HGE	5469	0082 092D2	36.8515	-116.4572	1.3010	Repository, NTS, Nevada w84mg
RPY	EHZ	5470	3551 09BE0	36.8515	-116.4572	1.3010	Repository, NTS, Nevada w84mg
RPY	EHN	5471	3553 09BE0	36.8515	-116.4572	1.3010	Repository, NTS, Nevada w84mg
RPY	EHE	5472	3306 09BE0	36.8515	-116.4572	1.3010	Repository, NTS, Nevada w84mg
RPY	HGZ	5473	0082 09BE0	36.8515	-116.4572	1.3010	Repository, NTS, Nevada w84mg
RPY	HGN	5474	0082 09BE0	36.8515	-116.4572	1.3010	Repository, NTS, Nevada w84mg
RPY	HGE	5475	0082 09BE0	36.8515	-116.4572	1.3010	Repository, NTS, Nevada w84mg
RPY	HGZ	5476	3217 09BE0	36.8515	-116.4572	1.3010	Repository, NTS, Nevada w84mg
RPY	HGN	5477	3217 09BE0	36.8515	-116.4572	1.3010	Repository, NTS, Nevada w84mg
RPY	HGE	5478	3217 09BE0	36.8515	-116.4572	1.3010	Repository, NTS, Nevada w84mg
RPY	EHZ	5479	3551 Q3237	36.8515	-116.4572	1.3010	Repository, NTS, Nevada w84mg
RPY	EHN	5480	3553 Q3237	36.8515	-116.4572	1.3010	Repository, NTS, Nevada w84mg
RPY	EHE	5481	3306 Q3237	36.8515	-116.4572	1.3010	Repository, NTS, Nevada w84mg
RPY	HGZ	5482	3217 Q3237	36.8515	-116.4572	1.3010	Repository, NTS, Nevada w84mg
RPY	HGN	5483	3217 Q3237	36.8515	-116.4572	1.3010	Repository, NTS, Nevada w84mg
RPY	HGE	5484	3217 Q3237	36.8515	-116.4572	1.3010	Repository, NTS, Nevada w84mg
RTP2	EHE	5067	105 09101	36.7211	-116.1286	1.1560	Rock Valley portable site
RTP2	EHN	5068	099 09101	36.7211	-116.1286	1.1560	Rock Valley portable site
RTP2	EHZ	5069	097 09101	36.7211	-116.1286	1.1560	Rock Valley portable site

Appendix 7
Selected Metadata for SPE-6 Surface Stations

Station ID	Channel	Channel ID	Description	Estimated Latitude	Estimated Longitude	Elevation km (amsl)	Location
RTPP	EHE	5070	105 09101	36.7214	-116.1290	1.1550	Rock Valley portable and reinstall
RTPP	EHN	5071	099 09101	36.7214	-116.1290	1.1550	Rock Valley portable and reinstall
RTPP	EHZ	5072	097 09101	36.7214	-116.1290	1.1550	Rock Valley portable and reinstall
RTPP	EHZ	5073	619 09101	36.7214	-116.1290	1.1550	Rock Valley portable and reinstall
RTPP	EHN	5074	619 09101	36.7214	-116.1290	1.1550	Rock Valley portable and reinstall
RTPP	EHE	5075	619 09101	36.7214	-116.1290	1.1550	Rock Valley portable and reinstall
RTPP	EHZ_00	5076	097 Q3258	36.7214	-116.1290	1.1550	Rock Valley portable and reinstall
RTPP	EHN_00	5077	099 Q3258	36.7214	-116.1290	1.1550	Rock Valley portable and reinstall
RTPP	EHE_00	5078	105 Q3258	36.7214	-116.1290	1.1550	Rock Valley portable and reinstall
RTPP	EHZ_01	5079	619 Q3258	36.7214	-116.1290	1.1550	Rock Valley portable and reinstall
RTPP	EHN_01	5080	619 Q3258	36.7214	-116.1290	1.1550	Rock Valley portable and reinstall
RTPP	EHE_01	5081	619 Q3258	36.7214	-116.1290	1.1550	Rock Valley portable and reinstall
RTPP	EHZ_00	5082	097 Q3258	36.7214	-116.1290	1.1550	Rock Valley portable and reinstall
RTPP	EHN_00	5083	099 Q3258	36.7214	-116.1290	1.1550	Rock Valley portable and reinstall
RTPP	EHE_00	5084	105 Q3258	36.7214	-116.1290	1.1550	Rock Valley portable and reinstall
RTPP	EHZ_01	5085	619 Q3258	36.7214	-116.1290	1.1550	Rock Valley portable and reinstall
RTPP	EHN_01	5086	619 Q3258	36.7214	-116.1290	1.1550	Rock Valley portable and reinstall
RTPP	EHE_01	5087	619 Q3258	36.7214	-116.1290	1.1550	Rock Valley portable and reinstall
RVEE	EHZ	5088	620 9DBB	36.7116	-116.1068	1.1319	Rock Valley East Epicenter
RVEE	EHN	5089	620 9DBB	36.7116	-116.1068	1.1319	Rock Valley East Epicenter
RVEE	EHE	5090	620 9DBB	36.7116	-116.1068	1.1319	Rock Valley East Epicenter
RVEE	EHZ_00	5091	167 Q3283	36.7116	-116.1068	1.1319	Rock Valley East Epicenter
RVEE	EHN_00	5092	045 Q3283	36.7116	-116.1068	1.1319	Rock Valley East Epicenter
RVEE	EHE_00	5093	126 Q3283	36.7116	-116.1068	1.1319	Rock Valley East Epicenter
RVEE	EHZ_01	5094	620 Q3283	36.7116	-116.1068	1.1319	Rock Valley East Epicenter
RVEE	EHN_01	5095	620 Q3283	36.7116	-116.1068	1.1319	Rock Valley East Epicenter
RVEE	EHE_01	5096	620 Q3283	36.7116	-116.1068	1.1319	Rock Valley East Epicenter
RVEE	EHZ_00	5097	167 Q3283	36.7116	-116.1068	1.1319	Rock Valley East Epicenter
RVEE	EHN_00	5098	045 Q3283	36.7116	-116.1068	1.1319	Rock Valley East Epicenter
RVEE	EHE_00	5099	126 Q3283	36.7116	-116.1068	1.1319	Rock Valley East Epicenter
RVEE	EHZ_01	5100	620 Q3283	36.7116	-116.1068	1.1319	Rock Valley East Epicenter

Appendix 7
Selected Metadata for SPE-6 Surface Stations

Station ID	Channel	Channel ID	Description	Estimated Latitude	Estimated Longitude	Elevation km (amsl)	Location
RVEE	EHN_01	5101	620 Q3283	36.7116	-116.1068	1.1319	Rock Valley East Epicenter
RVEE	EHE_01	5102	620 Q3283	36.7116	-116.1068	1.1319	Rock Valley East Epicenter
RVFF	HGZ	5103	3279 9100	36.7285	-115.9854	1.0790	Rock Valley Frenchman Flat
RVFF	HGN	5104	3279 9100	36.7285	-115.9854	1.0790	Rock Valley Frenchman Flat
RVFF	HGE	5105	3279 9100	36.7285	-115.9854	1.0790	Rock Valley Frenchman Flat
RVFF	HHZ	5106	001576 9100	36.7285	-115.9854	1.0790	Rock Valley Frenchman Flat
RVFF	HHN	5107	001576 9100	36.7285	-115.9854	1.0790	Rock Valley Frenchman Flat
RVFF	HHE	5108	001576 9100	36.7285	-115.9854	1.0790	Rock Valley Frenchman Flat
RVIS	CDF_01	5109	022 B4A7	36.7057	-115.9627	1.1830	Rock Valley Infrasound LANL sta200
RVIS	CDF_02	5110	016 B4A7	36.7057	-115.9627	1.1830	Rock Valley Infrasound LANL sta200
RVIS	CDF_03	5111	012 B4A7	36.7057	-115.9627	1.1830	Rock Valley Infrasound LANL sta200
RVIS	CDF_04	5112	001 B4A7	36.7057	-115.9627	1.1830	Rock Valley Infrasound LANL sta200
RVIS	CDF_E	5113	022 B4A7	36.7057	-115.9627	1.1830	Rock Valley Infrasound LANL sta200
RVIS	CDF_S	5114	016 B4A7	36.7057	-115.9627	1.1830	Rock Valley Infrasound LANL sta200
RVIS	CDF_W	5115	012 B4A7	36.7057	-115.9627	1.1830	Rock Valley Infrasound LANL sta200
RVIS	CDF_N	5116	001 B4A7	36.7057	-115.9627	1.1830	Rock Valley Infrasound LANL sta200
RVNE	HHZ	5117	0293 92D3	36.7607	-116.1054	1.3230	Rock Valley SPE, Northeast, wgs84
RVNE	HHN	5118	0293 92D3	36.7607	-116.1054	1.3230	Rock Valley SPE, Northeast, wgs84
RVNE	HHE	5119	0293 92D3	36.7607	-116.1054	1.3230	Rock Valley SPE, Northeast, wgs84
RVSE	HHZ	5120	0996 9833	36.6959	-116.0984	1.1570	Rock Valley SPE, Southeast, wgs84
RVSE	HHN	5121	0996 9833	36.6959	-116.0984	1.1570	Rock Valley SPE, Southeast, wgs84
RVSE	HHE	5122	0996 9833	36.6959	-116.0984	1.1570	Rock Valley SPE, Southeast, wgs84
RVSE	HHZ	5123	0996 9839	36.6959	-116.0984	1.1570	Rock Valley SPE, Southeast, wgs84
RVSE	HHN	5124	0996 9839	36.6959	-116.0984	1.1570	Rock Valley SPE, Southeast, wgs84
RVSE	HHE	5125	0996 9839	36.6959	-116.0984	1.1570	Rock Valley SPE, Southeast, wgs84
S11A	HHZ	5930	2261 3280	37.6444	-115.7472	1.4560	Rachel, NV, USA - NN reactivation
S11A	HHN	5931	2261 3280	37.6444	-115.7472	1.4560	Rachel, NV, USA - NN reactivation
S11A	HHE	5932	2261 3280	37.6444	-115.7472	1.4560	Rachel, NV, USA - NN reactivation
S13A	HHZ	4309	1341 9E1B	37.5809	-113.8604	1.7020	Holt Ranch, Enterprise UT - SN reactivation
S13A	HHN	4310	1341 9E1B	37.5809	-113.8604	1.7020	Holt Ranch, Enterprise UT - SN reactivation
S13A	HHE	4311	1341 9E1B	37.5809	-113.8604	1.7020	Holt Ranch, Enterprise UT - SN reactivation

Appendix 7
Selected Metadata for SPE-6 Surface Stations

Station ID	Channel	Channel ID	Description	Estimated Latitude	Estimated Longitude	Elevation km (amsl)	Location
SCF	EHZ	5485	3399 0702	36.7568	-116.5449	0.9090	South Crater Flat, Nevada w84
SCF	SHZ	5486	3399 0702	36.7568	-116.5449	0.9090	South Crater Flat, Nevada w84
SCF	EHN	5487	3400 0702	36.7568	-116.5449	0.9090	South Crater Flat, Nevada w84
SCF	SHN	5488	3400 0702	36.7568	-116.5449	0.9090	South Crater Flat, Nevada w84
SCF	EHE	5489	3401 0702	36.7568	-116.5449	0.9090	South Crater Flat, Nevada w84
SCF	SHE	5490	3401 0702	36.7568	-116.5449	0.9090	South Crater Flat, Nevada w84
SCF	EHZ	5491	3399 0705	36.7568	-116.5449	0.9090	South Crater Flat, Nevada w84
SCF	SHZ	5492	3399 0705	36.7568	-116.5449	0.9090	South Crater Flat, Nevada w84
SCF	EHN	5493	3400 0705	36.7568	-116.5449	0.9090	South Crater Flat, Nevada w84
SCF	SHN	5494	3400 0705	36.7568	-116.5449	0.9090	South Crater Flat, Nevada w84
SCF	EHE	5495	3401 0705	36.7568	-116.5449	0.9090	South Crater Flat, Nevada w84
SCF	SHE	5496	3401 0705	36.7568	-116.5449	0.9090	South Crater Flat, Nevada w84
SCF	HGZ	5497	0231 0705	36.7568	-116.5449	0.9090	South Crater Flat, Nevada w84
SCF	HGN	5498	0231 0705	36.7568	-116.5449	0.9090	South Crater Flat, Nevada w84
SCF	HGE	5499	0231 0705	36.7568	-116.5449	0.9090	South Crater Flat, Nevada w84
SCF	EHZ	5500	3399 09BDC	36.7568	-116.5449	0.9090	South Crater Flat, Nevada w84
SCF	EHN	5501	3400 09BDC	36.7568	-116.5449	0.9090	South Crater Flat, Nevada w84
SCF	EHE	5502	3401 09BDC	36.7568	-116.5449	0.9090	South Crater Flat, Nevada w84
SCF	HGZ	5503	0092 09BDC	36.7568	-116.5449	0.9090	South Crater Flat, Nevada w84
SCF	HGN	5504	0092 09BDC	36.7568	-116.5449	0.9090	South Crater Flat, Nevada w84
SCF	HGE	5505	0092 09BDC	36.7568	-116.5449	0.9090	South Crater Flat, Nevada w84
SCF	EHZ	5506	3399 Q3220	36.7568	-116.5449	0.9090	South Crater Flat, Nevada w84
SCF	EHN	5507	3400 Q3220	36.7568	-116.5449	0.9090	South Crater Flat, Nevada w84
SCF	EHE	5508	3401 Q3220	36.7568	-116.5449	0.9090	South Crater Flat, Nevada w84
SCF	HGZ	5509	0092 Q3220	36.7568	-116.5449	0.9090	South Crater Flat, Nevada w84
SCF	HGN	5510	0092 Q3220	36.7568	-116.5449	0.9090	South Crater Flat, Nevada w84
SCF	HGE	5511	0092 Q3220	36.7568	-116.5449	0.9090	South Crater Flat, Nevada w84
SGR	EHZ	5512	3331 0512	36.9804	-117.0336	1.5600	South Grapevine, Nevada w84
SGR	SHZ	5513	3331 0512	36.9804	-117.0336	1.5600	South Grapevine, Nevada w84
SGR	EHN	5514	3332 0512	36.9804	-117.0336	1.5600	South Grapevine, Nevada w84
SGR	SHN	5515	3332 0512	36.9804	-117.0336	1.5600	South Grapevine, Nevada w84

Appendix 7
Selected Metadata for SPE-6 Surface Stations

Station ID	Channel	Channel ID	Description	Estimated Latitude	Estimated Longitude	Elevation km (amsl)	Location
SGR	EHE	5516	3333 0512	36.9804	-117.0336	1.5600	South Grapevine, Nevada w84
SGR	SHE	5517	3333 0512	36.9804	-117.0336	1.5600	South Grapevine, Nevada w84
SGR	EHZ	5518	3331 Q3375	36.9804	-117.0336	1.5600	South Grapevine, Nevada w84
SGR	EHN	5519	3332 Q3375	36.9804	-117.0336	1.5600	South Grapevine, Nevada w84
SGR	EHE	5520	3333 Q3375	36.9804	-117.0336	1.5600	South Grapevine, Nevada w84
SGR	EHZ	5521	3337 Q3375	36.9804	-117.0336	1.5600	South Grapevine, Nevada w84
SGR	EHZ	5522	3388 Q3375	36.9804	-117.0336	1.5600	South Grapevine, Nevada w84
SMES	EHZ	5523	2341 09835	36.8286	-116.4477	1.4390	strainmeter east, above ESF tunnel, NTS w84
SMES	EHN	5524	2341 09835	36.8286	-116.4477	1.4390	strainmeter east, above ESF tunnel, NTS w84
SMES	EHE	5525	2341 09835	36.8286	-116.4477	1.4390	strainmeter east, above ESF tunnel, NTS w84
SMES	HGZ	5526	0071 09835	36.8286	-116.4477	1.4390	strainmeter east, above ESF tunnel, NTS w84
SMES	HGN	5527	0071 09835	36.8286	-116.4477	1.4390	strainmeter east, above ESF tunnel, NTS w84
SMES	HGE	5528	0071 09835	36.8286	-116.4477	1.4390	strainmeter east, above ESF tunnel, NTS w84
SMES	HGZ	5529	0036 09835	36.8286	-116.4477	1.4390	strainmeter east, above ESF tunnel, NTS w84
SMES	HGN	5530	0036 09835	36.8286	-116.4477	1.4390	strainmeter east, above ESF tunnel, NTS w84
SMES	HGE	5531	0036 09835	36.8286	-116.4477	1.4390	strainmeter east, above ESF tunnel, NTS w84
SMES	EHZ	5532	2341 Q3236	36.8286	-116.4477	1.4390	strainmeter east, above ESF tunnel, NTS w84
SMES	EHN	5533	2341 Q3236	36.8286	-116.4477	1.4390	strainmeter east, above ESF tunnel, NTS w84
SMES	EHE	5534	2341 Q3236	36.8286	-116.4477	1.4390	strainmeter east, above ESF tunnel, NTS w84
SMES	HGZ	5535	0036 Q3236	36.8286	-116.4477	1.4390	strainmeter east, above ESF tunnel, NTS w84
SMES	HGN	5536	0036 Q3236	36.8286	-116.4477	1.4390	strainmeter east, above ESF tunnel, NTS w84
SMES	HGE	5537	0036 Q3236	36.8286	-116.4477	1.4390	strainmeter east, above ESF tunnel, NTS w84
SP001				37.2212	-116.0609	1.4708	NNSS-SPE SPE-1 22:00:00.01136 55.1m 90kg
SP002				37.2212	-116.0609	1.4799	NNSS-SPE SPE-2 19:00:00.011623 45.7m 997kg
SP003				37.2212	-116.0609	1.4799	NNSS-SPE SPE-3 18:00:00.44835 47.2m 905kg
SP005				37.2212	-116.0609	1.4384	NNSS-SPE SPE-5 20:49:00.000 76.5m 5035kg
SP006				37.2212	-116.0609	1.4384	NNSS-SPE SPE-6 18:36:00.000 31.4m 2245kg
SP04P				37.2212	-116.0609	1.4384	NNSS-SPE SPE-4Prime 18:36:00.000 87.2m 89kg
SPC	HHZ	5538	4065 0756	36.6746	-116.2039	1.0640	Specter Range, NTS, Nevada w84
SPC	HHN	5539	4065 0756	36.6746	-116.2039	1.0640	Specter Range, NTS, Nevada w84
SPC	HHE	5540	4065 0756	36.6746	-116.2039	1.0640	Specter Range, NTS, Nevada w84

Appendix 7
Selected Metadata for SPE-6 Surface Stations

Station ID	Channel	Channel ID	Description	Estimated Latitude	Estimated Longitude	Elevation km (amsl)	Location
SPC	BHZ	5541	4065 0756	36.6746	-116.2039	1.0640	Specter Range, NTS, Nevada w84
SPC	BHN	5542	4065 0756	36.6746	-116.2039	1.0640	Specter Range, NTS, Nevada w84
SPC	BHE	5543	4065 0756	36.6746	-116.2039	1.0640	Specter Range, NTS, Nevada w84
SPC	HHZ	5544	4049 0756	36.6746	-116.2039	1.0640	Specter Range, NTS, Nevada w84
SPC	HHN	5545	4049 0756	36.6746	-116.2039	1.0640	Specter Range, NTS, Nevada w84
SPC	HHE	5546	4049 0756	36.6746	-116.2039	1.0640	Specter Range, NTS, Nevada w84
SPC	BHZ	5547	4049 0756	36.6746	-116.2039	1.0640	Specter Range, NTS, Nevada w84
SPC	BHN	5548	4049 0756	36.6746	-116.2039	1.0640	Specter Range, NTS, Nevada w84
SPC	BHE	5549	4049 0756	36.6746	-116.2039	1.0640	Specter Range, NTS, Nevada w84
SPC	HHZ	5550	4047 0756	36.6746	-116.2039	1.0640	Specter Range, NTS, Nevada w84
SPC	HHN	5551	4047 0756	36.6746	-116.2039	1.0640	Specter Range, NTS, Nevada w84
SPC	HHE	5552	4047 0756	36.6746	-116.2039	1.0640	Specter Range, NTS, Nevada w84
SPC	BHZ	5553	4047 0756	36.6746	-116.2039	1.0640	Specter Range, NTS, Nevada w84
SPC	BHN	5554	4047 0756	36.6746	-116.2039	1.0640	Specter Range, NTS, Nevada w84
SPC	BHE	5555	4047 0756	36.6746	-116.2039	1.0640	Specter Range, NTS, Nevada w84
SPC	EHZ	5556	3289 0756	36.6746	-116.2039	1.0640	Specter Range, NTS, Nevada w84
SPC	SHZ	5557	3289 0756	36.6746	-116.2039	1.0640	Specter Range, NTS, Nevada w84
SPC	EHN	5558	3381 0756	36.6746	-116.2039	1.0640	Specter Range, NTS, Nevada w84
SPC	SHN	5559	3381 0756	36.6746	-116.2039	1.0640	Specter Range, NTS, Nevada w84
SPC	EHE	5560	3343 0756	36.6746	-116.2039	1.0640	Specter Range, NTS, Nevada w84
SPC	SHE	5561	3343 0756	36.6746	-116.2039	1.0640	Specter Range, NTS, Nevada w84
SPC	EHE	5562	3395 0756	36.6746	-116.2039	1.0640	Specter Range, NTS, Nevada w84
SPC	SHE	5563	3395 0756	36.6746	-116.2039	1.0640	Specter Range, NTS, Nevada w84
SPC	EHZ	5564	3289 0982A	36.6746	-116.2039	1.0640	Specter Range, NTS, Nevada w84
SPC	EHN	5565	3381 0982A	36.6746	-116.2039	1.0640	Specter Range, NTS, Nevada w84
SPC	EHE	5566	3395 0982A	36.6746	-116.2039	1.0640	Specter Range, NTS, Nevada w84
SPC	HGZ	5567	0040 0982A	36.6746	-116.2039	1.0640	Specter Range, NTS, Nevada w84
SPC	HGN	5568	0040 0982A	36.6746	-116.2039	1.0640	Specter Range, NTS, Nevada w84
SPC	HGE	5569	0040 0982A	36.6746	-116.2039	1.0640	Specter Range, NTS, Nevada w84
SPC	EHZ	5570	3289 Q3283	36.6746	-116.2039	1.0640	Specter Range, NTS, Nevada w84
SPC	EHN	5571	3381 Q3283	36.6746	-116.2039	1.0640	Specter Range, NTS, Nevada w84

Appendix 7
Selected Metadata for SPE-6 Surface Stations

Station ID	Channel	Channel ID	Description	Estimated Latitude	Estimated Longitude	Elevation km (amsl)	Location
SPC	EHE	5572	3395 Q3283	36.6746	-116.2039	1.0640	Specter Range, NTS, Nevada w84
SPC	HGZ	5573	32xy Q3283	36.6746	-116.2039	1.0640	Specter Range, NTS, Nevada w84
SPC	HGN	5574	32xy Q3283	36.6746	-116.2039	1.0640	Specter Range, NTS, Nevada w84
SPC	HGE	5575	32xy Q3283	36.6746	-116.2039	1.0640	Specter Range, NTS, Nevada w84
SPRS	HNZ	5126	0000 0000	36.6882	-116.1781	1.0920	Specter Range SM and Rock Valley SPE wgs84
SPRS	HNN	5127	0000 0000	36.6882	-116.1781	1.0920	Specter Range SM and Rock Valley SPE wgs84
SPRS	HNE	5128	0000 0000	36.6882	-116.1781	1.0920	Specter Range SM and Rock Valley SPE wgs84
SPRS	HHZ	5129	1027 982F	36.6882	-116.1781	1.0920	Specter Range SM and Rock Valley SPE wgs84
SPRS	HHN	5130	1027 982F	36.6882	-116.1781	1.0920	Specter Range SM and Rock Valley SPE wgs84
SPRS	HHE	5131	1027 982F	36.6882	-116.1781	1.0920	Specter Range SM and Rock Valley SPE wgs84
STC	EHE	5576	3252 0709	37.2938	-116.4367	1.9760	Silent Canyon, NTS, Nevada w84gm
STC	SHE	5577	3252 0709	37.2938	-116.4367	1.9760	Silent Canyon, NTS, Nevada w84gm
STC	EHN	5578	3371 0709	37.2938	-116.4367	1.9760	Silent Canyon, NTS, Nevada w84gm
STC	SHN	5579	3371 0709	37.2938	-116.4367	1.9760	Silent Canyon, NTS, Nevada w84gm
STC	EHZ	5580	3192 0709	37.2938	-116.4367	1.9760	Silent Canyon, NTS, Nevada w84gm
STC	SHZ	5581	3192 0709	37.2938	-116.4367	1.9760	Silent Canyon, NTS, Nevada w84gm
STC	EHE	5582	3252 Q3384	37.2938	-116.4367	1.9760	Silent Canyon, NTS, Nevada w84gm
STC	EHN	5583	3371 Q3384	37.2938	-116.4367	1.9760	Silent Canyon, NTS, Nevada w84gm
STC	EHZ	5584	3192 Q3384	37.2938	-116.4367	1.9760	Silent Canyon, NTS, Nevada w84gm
STH	EHZ	5585	3568 1083	36.6457	-116.3384	1.0500	Striped Hills (old SDH), Nevada w84
STH	SHZ	5586	3568 1083	36.6457	-116.3384	1.0500	Striped Hills (old SDH), Nevada w84
STH	EHN	5587	3570 1083	36.6457	-116.3384	1.0500	Striped Hills (old SDH), Nevada w84
STH	SHN	5588	3570 1083	36.6457	-116.3384	1.0500	Striped Hills (old SDH), Nevada w84
STH	EHE	5589	3371 1083	36.6457	-116.3384	1.0500	Striped Hills (old SDH), Nevada w84
STH	SHE	5590	3371 1083	36.6457	-116.3384	1.0500	Striped Hills (old SDH), Nevada w84
STH	EHZ	5591	3568 09100	36.6457	-116.3384	1.0500	Striped Hills (old SDH), Nevada w84
STH	EHN	5592	3570 09100	36.6457	-116.3384	1.0500	Striped Hills (old SDH), Nevada w84
STH	EHE	5593	3371 09100	36.6457	-116.3384	1.0500	Striped Hills (old SDH), Nevada w84
STHB	HHZ	5933	3281 D158	36.6454	-116.3388	1.0520	Striped Hills, NV, USA analog reactivation
STHB	HHN	5934	3281 D158	36.6454	-116.3388	1.0520	Striped Hills, NV, USA analog reactivation
STHB	HHE	5935	3281 D158	36.6454	-116.3388	1.0520	Striped Hills, NV, USA analog reactivation

Appendix 7
Selected Metadata for SPE-6 Surface Stations

Station ID	Channel	Channel ID	Description	Estimated Latitude	Estimated Longitude	Elevation km (amsl)	Location
STO	EHZ	5594	3479 0700	36.8603	-116.4751	1.3590	Solitario Canyon, Nevada w84
STO	SHZ	5595	3479 0700	36.8603	-116.4751	1.3590	Solitario Canyon, Nevada w84
STO	EHN	5596	3562 0700	36.8603	-116.4751	1.3590	Solitario Canyon, Nevada w84
STO	SHN	5597	3562 0700	36.8603	-116.4751	1.3590	Solitario Canyon, Nevada w84
STO	EHE	5598	3404 0700	36.8603	-116.4751	1.3590	Solitario Canyon, Nevada w84
STO	SHE	5599	3404 0700	36.8603	-116.4751	1.3590	Solitario Canyon, Nevada w84
STO	HGZ	5600	0234 0700	36.8603	-116.4751	1.3590	Solitario Canyon, Nevada w84
STO	HGN	5601	0234 0700	36.8603	-116.4751	1.3590	Solitario Canyon, Nevada w84
STO	HGE	5602	0234 0700	36.8603	-116.4751	1.3590	Solitario Canyon, Nevada w84
STO	EHZ	5603	3479 09DBC	36.8603	-116.4751	1.3590	Solitario Canyon, Nevada w84
STO	EHN	5604	3562 09DBC	36.8603	-116.4751	1.3590	Solitario Canyon, Nevada w84
STO	EHE	5605	3404 09DBC	36.8603	-116.4751	1.3590	Solitario Canyon, Nevada w84
STO	HGZ	5606	0095 09DBC	36.8603	-116.4751	1.3590	Solitario Canyon, Nevada w84
STO	HGN	5607	0095 09DBC	36.8603	-116.4751	1.3590	Solitario Canyon, Nevada w84
STO	HGE	5608	0095 09DBC	36.8603	-116.4751	1.3590	Solitario Canyon, Nevada w84
STO	EHZ	5609	3479 Q3222	36.8603	-116.4751	1.3590	Solitario Canyon, Nevada w84
STO	EHN	5610	3562 Q3222	36.8603	-116.4751	1.3590	Solitario Canyon, Nevada w84
STO	EHE	5611	3404 Q3222	36.8603	-116.4751	1.3590	Solitario Canyon, Nevada w84
STO	HGZ	5612	0095 Q3222	36.8603	-116.4751	1.3590	Solitario Canyon, Nevada w84
STO	HGN	5613	0095 Q3222	36.8603	-116.4751	1.3590	Solitario Canyon, Nevada w84
STO	HGE	5614	0095 Q3222	36.8603	-116.4751	1.3590	Solitario Canyon, Nevada w84
SYM	EHE	5615	3294 0701	36.7416	-116.4469	0.9950	South Yucca Mountain, NTS, Nevada w84
SYM	SHE	5616	3294 0701	36.7416	-116.4469	0.9950	South Yucca Mountain, NTS, Nevada w84
SYM	EHN	5617	3293 0701	36.7416	-116.4469	0.9950	South Yucca Mountain, NTS, Nevada w84
SYM	SHN	5618	3293 0701	36.7416	-116.4469	0.9950	South Yucca Mountain, NTS, Nevada w84
SYM	EHZ	5619	3292 0701	36.7416	-116.4469	0.9950	South Yucca Mountain, NTS, Nevada w84
SYM	SHZ	5620	3292 0701	36.7416	-116.4469	0.9950	South Yucca Mountain, NTS, Nevada w84
SYM	HGZ	5621	0236 0701	36.7416	-116.4469	0.9950	South Yucca Mountain, NTS, Nevada w84
SYM	HGN	5622	0236 0701	36.7416	-116.4469	0.9950	South Yucca Mountain, NTS, Nevada w84
SYM	HGE	5623	0236 0701	36.7416	-116.4469	0.9950	South Yucca Mountain, NTS, Nevada w84
SYM	EHE	5624	3294 09101	36.7416	-116.4469	0.9950	South Yucca Mountain, NTS, Nevada w84

Appendix 7
Selected Metadata for SPE-6 Surface Stations

Station ID	Channel	Channel ID	Description	Estimated Latitude	Estimated Longitude	Elevation km (amsl)	Location
SYM	EHN	5625	3293 09101	36.7416	-116.4469	0.9950	South Yucca Mountain, NTS, Nevada w84
SYM	EHZ	5626	3292 09101	36.7416	-116.4469	0.9950	South Yucca Mountain, NTS, Nevada w84
SYM	HGZ	5627	0090 09101	36.7416	-116.4469	0.9950	South Yucca Mountain, NTS, Nevada w84
SYM	HGN	5628	0090 09101	36.7416	-116.4469	0.9950	South Yucca Mountain, NTS, Nevada w84
SYM	HGE	5629	0090 09101	36.7416	-116.4469	0.9950	South Yucca Mountain, NTS, Nevada w84
SYM	EHE	5630	3294 Q3279	36.7416	-116.4469	0.9950	South Yucca Mountain, NTS, Nevada w84
SYM	EHN	5631	3293 Q3279	36.7416	-116.4469	0.9950	South Yucca Mountain, NTS, Nevada w84
SYM	EHZ	5632	3292 Q3279	36.7416	-116.4469	0.9950	South Yucca Mountain, NTS, Nevada w84
SYM	HGZ	5633	0090 Q3279	36.7416	-116.4469	0.9950	South Yucca Mountain, NTS, Nevada w84
SYM	HGN	5634	0090 Q3279	36.7416	-116.4469	0.9950	South Yucca Mountain, NTS, Nevada w84
SYM	HGE	5635	0090 Q3279	36.7416	-116.4469	0.9950	South Yucca Mountain, NTS, Nevada w84
TAR	HHZ	5636	4060 0707	36.8680	-116.6331	1.2500	Tarantula Canyon, Nevada w84
TAR	HHN	5637	4060 0707	36.8680	-116.6331	1.2500	Tarantula Canyon, Nevada w84
TAR	HHE	5638	4060 0707	36.8680	-116.6331	1.2500	Tarantula Canyon, Nevada w84
TAR	BHZ	5639	4060 0707	36.8680	-116.6331	1.2500	Tarantula Canyon, Nevada w84
TAR	BHN	5640	4060 0707	36.8680	-116.6331	1.2500	Tarantula Canyon, Nevada w84
TAR	BHE	5641	4060 0707	36.8680	-116.6331	1.2500	Tarantula Canyon, Nevada w84
TAR	HHZ	5642	4057 0707	36.8680	-116.6331	1.2500	Tarantula Canyon, Nevada w84
TAR	HHN	5643	4057 0707	36.8680	-116.6331	1.2500	Tarantula Canyon, Nevada w84
TAR	HHE	5644	4057 0707	36.8680	-116.6331	1.2500	Tarantula Canyon, Nevada w84
TAR	BHZ	5645	4057 0707	36.8680	-116.6331	1.2500	Tarantula Canyon, Nevada w84
TAR	BHN	5646	4057 0707	36.8680	-116.6331	1.2500	Tarantula Canyon, Nevada w84
TAR	BHE	5647	4057 0707	36.8680	-116.6331	1.2500	Tarantula Canyon, Nevada w84
TAR	EHZ	5648	3345 0707	36.8680	-116.6331	1.2500	Tarantula Canyon, Nevada w84
TAR	SHZ	5649	3345 0707	36.8680	-116.6331	1.2500	Tarantula Canyon, Nevada w84
TAR	EHN	5650	3573 0707	36.8680	-116.6331	1.2500	Tarantula Canyon, Nevada w84
TAR	SHN	5651	3573 0707	36.8680	-116.6331	1.2500	Tarantula Canyon, Nevada w84
TAR	EHE	5652	3478 0707	36.8680	-116.6331	1.2500	Tarantula Canyon, Nevada w84
TAR	SHE	5653	3478 0707	36.8680	-116.6331	1.2500	Tarantula Canyon, Nevada w84
TAR	EHZ	5654	3345 09DBA	36.8680	-116.6331	1.2500	Tarantula Canyon, Nevada w84
TAR	EHN	5655	3573 09DBA	36.8680	-116.6331	1.2500	Tarantula Canyon, Nevada w84

Appendix 7
Selected Metadata for SPE-6 Surface Stations

Station ID	Channel	Channel ID	Description	Estimated Latitude	Estimated Longitude	Elevation km (amsl)	Location
TAR	EHE	5656	3478 09DBA	36.8680	-116.6331	1.2500	Tarantula Canyon, Nevada w84
TAR	EHZ	5657	3345 Q3240	36.8680	-116.6331	1.2500	Tarantula Canyon, Nevada w84
TAR	EHN	5658	3573 Q3240	36.8680	-116.6331	1.2500	Tarantula Canyon, Nevada w84
TAR	EHE	5659	3478 Q3240	36.8680	-116.6331	1.2500	Tarantula Canyon, Nevada w84
TAR	EHE	5660	3563 Q3240	36.8680	-116.6331	1.2500	Tarantula Canyon, Nevada w84
TAR	EHN	5661	3559 Q3240	36.8680	-116.6331	1.2500	Tarantula Canyon, Nevada w84
TIM	HHZ	5662	4064 0759	37.0667	-116.4703	1.8710	Timber Moutain, NAFB, Nevada w84
TIM	HHN	5663	4064 0759	37.0667	-116.4703	1.8710	Timber Moutain, NAFB, Nevada w84
TIM	HHE	5664	4064 0759	37.0667	-116.4703	1.8710	Timber Moutain, NAFB, Nevada w84
TIM	BHZ	5665	4064 0759	37.0667	-116.4703	1.8710	Timber Moutain, NAFB, Nevada w84
TIM	BHN	5666	4064 0759	37.0667	-116.4703	1.8710	Timber Moutain, NAFB, Nevada w84
TIM	BHE	5667	4064 0759	37.0667	-116.4703	1.8710	Timber Moutain, NAFB, Nevada w84
TIM	HHZ	5668	4056 0759	37.0667	-116.4703	1.8710	Timber Moutain, NAFB, Nevada w84
TIM	HHN	5669	4056 0759	37.0667	-116.4703	1.8710	Timber Moutain, NAFB, Nevada w84
TIM	HHE	5670	4056 0759	37.0667	-116.4703	1.8710	Timber Moutain, NAFB, Nevada w84
TIM	BHZ	5671	4056 0759	37.0667	-116.4703	1.8710	Timber Moutain, NAFB, Nevada w84
TIM	BHN	5672	4056 0759	37.0667	-116.4703	1.8710	Timber Moutain, NAFB, Nevada w84
TIM	BHE	5673	4056 0759	37.0667	-116.4703	1.8710	Timber Moutain, NAFB, Nevada w84
TIM	EHZ	5674	3388 0759	37.0667	-116.4703	1.8710	Timber Moutain, NAFB, Nevada w84
TIM	SHZ	5675	3388 0759	37.0667	-116.4703	1.8710	Timber Moutain, NAFB, Nevada w84
TIM	EHN	5676	1406 0759	37.0667	-116.4703	1.8710	Timber Moutain, NAFB, Nevada w84
TIM	SHN	5677	1406 0759	37.0667	-116.4703	1.8710	Timber Moutain, NAFB, Nevada w84
TIM	EHE	5678	3394 0759	37.0667	-116.4703	1.8710	Timber Moutain, NAFB, Nevada w84
TIM	SHE	5679	3394 0759	37.0667	-116.4703	1.8710	Timber Moutain, NAFB, Nevada w84
TIM	EHZ	5680	3388 09AEA	37.0667	-116.4703	1.8710	Timber Moutain, NAFB, Nevada w84
TIM	EHN	5681	1406 09AEA	37.0667	-116.4703	1.8710	Timber Moutain, NAFB, Nevada w84
TIM	EHE	5682	3394 09AEA	37.0667	-116.4703	1.8710	Timber Moutain, NAFB, Nevada w84
TIM	EHN	5683	3244 09AEA	37.0667	-116.4703	1.8710	Timber Moutain, NAFB, Nevada w84
TP001	CLZ	4277	53 B3B5	37.2192	-116.0573	1.4961	NNSS-SPE SP4 Trailer Park
TP001	CLR	4278	53 B3B5	37.2192	-116.0573	1.4961	NNSS-SPE SP4 Trailer Park
TP001	CLT	4279	53 B3B5	37.2192	-116.0573	1.4961	NNSS-SPE SP4 Trailer Park

Appendix 7
Selected Metadata for SPE-6 Surface Stations

Station ID	Channel	Channel ID	Description	Estimated Latitude	Estimated Longitude	Elevation km (amsl)	Location
TPNVB	DJZ_01	4280	001 D15D	36.9487	-116.2494	1.9590	TPNV Rotational Seismometers SP5
TPNVB	DJN	4281	001 D15D	36.9487	-116.2494	1.9590	TPNV Rotational Seismometers SP5
TPNVB	DJE	4282	001 D15D	36.9487	-116.2494	1.9590	TPNV Rotational Seismometers SP5
TPNVB	DJZ	4283	0110 D15D	36.9487	-116.2494	1.9590	TPNV Rotational Seismometers SP5
TPNVB	DJT	4284	0111 D15D	36.9487	-116.2494	1.9590	TPNV Rotational Seismometers SP5
TPW	EHZ	5684	3190 0711	36.9016	-116.2528	1.5730	Topopah Wash, NTS, Nevada w84
TPW	SHZ	5685	3190 0711	36.9016	-116.2528	1.5730	Topopah Wash, NTS, Nevada w84
TPW	EHN	5686	3349 0711	36.9016	-116.2528	1.5730	Topopah Wash, NTS, Nevada w84
TPW	SHN	5687	3349 0711	36.9016	-116.2528	1.5730	Topopah Wash, NTS, Nevada w84
TPW	EHE	5688	3346 0711	36.9016	-116.2528	1.5730	Topopah Wash, NTS, Nevada w84
TPW	SHE	5689	3346 0711	36.9016	-116.2528	1.5730	Topopah Wash, NTS, Nevada w84
TPW	EHZ	5690	3190 0842	36.9016	-116.2528	1.5730	Topopah Wash, NTS, Nevada w84
TPW	SHZ	5691	3190 0842	36.9016	-116.2528	1.5730	Topopah Wash, NTS, Nevada w84
TPW	EHN	5692	3349 0842	36.9016	-116.2528	1.5730	Topopah Wash, NTS, Nevada w84
TPW	SHN	5693	3349 0842	36.9016	-116.2528	1.5730	Topopah Wash, NTS, Nevada w84
TPW	EHE	5694	3346 0842	36.9016	-116.2528	1.5730	Topopah Wash, NTS, Nevada w84
TPW	SHE	5695	3346 0842	36.9016	-116.2528	1.5730	Topopah Wash, NTS, Nevada w84
TPW	EHZ	5696	3190 0842	36.9016	-116.2528	1.5730	Topopah Wash, NTS, Nevada w84
TPW	SHZ	5697	3190 0842	36.9016	-116.2528	1.5730	Topopah Wash, NTS, Nevada w84
TPW	EHN	5698	3349 0842	36.9016	-116.2528	1.5730	Topopah Wash, NTS, Nevada w84
TPW	SHN	5699	3349 0842	36.9016	-116.2528	1.5730	Topopah Wash, NTS, Nevada w84
TPW	EHE	5700	3346 0842	36.9016	-116.2528	1.5730	Topopah Wash, NTS, Nevada w84
TPW	SHE	5701	3346 0842	36.9016	-116.2528	1.5730	Topopah Wash, NTS, Nevada w84
TPW	EHZ	5702	3190 092D2	36.9016	-116.2528	1.5730	Topopah Wash, NTS, Nevada w84
TPW	EHN	5703	3349 092D2	36.9016	-116.2528	1.5730	Topopah Wash, NTS, Nevada w84
TPW	EHE	5704	3346 092D2	36.9016	-116.2528	1.5730	Topopah Wash, NTS, Nevada w84
TWP	EHZ	5705	3336 0714	37.2047	-116.1243	1.5760	Twin Peaks, NTS, Nevada w84
TWP	SHZ	5706	3336 0714	37.2047	-116.1243	1.5760	Twin Peaks, NTS, Nevada w84
TWP	EHN	5707	3284 0714	37.2047	-116.1243	1.5760	Twin Peaks, NTS, Nevada w84
TWP	SHN	5708	3284 0714	37.2047	-116.1243	1.5760	Twin Peaks, NTS, Nevada w84
TWP	EHE	5709	3560 0714	37.2047	-116.1243	1.5760	Twin Peaks, NTS, Nevada w84

Appendix 7
Selected Metadata for SPE-6 Surface Stations

Station ID	Channel	Channel ID	Description	Estimated Latitude	Estimated Longitude	Elevation km (amsl)	Location
TWP	SHE	5710	3560 0714	37.2047	-116.1243	1.5760	Twin Peaks, NTS, Nevada w84
TWP	EHZ	5711	3336 0951D	37.2047	-116.1243	1.5760	Twin Peaks, NTS, Nevada w84
TWP	EHN	5712	3284 0951D	37.2047	-116.1243	1.5760	Twin Peaks, NTS, Nevada w84
TWP	EHE	5713	3560 0951D	37.2047	-116.1243	1.5760	Twin Peaks, NTS, Nevada w84
TWP	EHE	5714	3395 0951D	37.2047	-116.1243	1.5760	Twin Peaks, NTS, Nevada w84
TYM	HHZ	5715	4058 0514	37.1440	-116.7217	1.4570	Thirsty Mountain, NAFB, Nevada w84gm
TYM	HHN	5716	4058 0514	37.1440	-116.7217	1.4570	Thirsty Mountain, NAFB, Nevada w84gm
TYM	HHE	5717	4058 0514	37.1440	-116.7217	1.4570	Thirsty Mountain, NAFB, Nevada w84gm
TYM	BHZ	5718	4058 0514	37.1440	-116.7217	1.4570	Thirsty Mountain, NAFB, Nevada w84gm
TYM	BHN	5719	4058 0514	37.1440	-116.7217	1.4570	Thirsty Mountain, NAFB, Nevada w84gm
TYM	BHE	5720	4058 0514	37.1440	-116.7217	1.4570	Thirsty Mountain, NAFB, Nevada w84gm
TYM	HHZ	5721	4062 0711	37.1440	-116.7217	1.4570	Thirsty Mountain, NAFB, Nevada w84gm
TYM	HHN	5722	4062 0711	37.1440	-116.7217	1.4570	Thirsty Mountain, NAFB, Nevada w84gm
TYM	HHE	5723	4062 0711	37.1440	-116.7217	1.4570	Thirsty Mountain, NAFB, Nevada w84gm
TYM	BHZ	5724	4062 0711	37.1440	-116.7217	1.4570	Thirsty Mountain, NAFB, Nevada w84gm
TYM	BHN	5725	4062 0711	37.1440	-116.7217	1.4570	Thirsty Mountain, NAFB, Nevada w84gm
TYM	BHE	5726	4062 0711	37.1440	-116.7217	1.4570	Thirsty Mountain, NAFB, Nevada w84gm
TYM	HHZ	5727	4058 0711	37.1440	-116.7217	1.4570	Thirsty Mountain, NAFB, Nevada w84gm
TYM	HHN	5728	4058 0711	37.1440	-116.7217	1.4570	Thirsty Mountain, NAFB, Nevada w84gm
TYM	HHE	5729	4058 0711	37.1440	-116.7217	1.4570	Thirsty Mountain, NAFB, Nevada w84gm
TYM	BHZ	5730	4058 0711	37.1440	-116.7217	1.4570	Thirsty Mountain, NAFB, Nevada w84gm
TYM	BHN	5731	4058 0711	37.1440	-116.7217	1.4570	Thirsty Mountain, NAFB, Nevada w84gm
TYM	BHE	5732	4058 0711	37.1440	-116.7217	1.4570	Thirsty Mountain, NAFB, Nevada w84gm
TYM	HHZ	5733	4062 0711	37.1440	-116.7217	1.4570	Thirsty Mountain, NAFB, Nevada w84gm
TYM	HHN	5734	4062 0711	37.1440	-116.7217	1.4570	Thirsty Mountain, NAFB, Nevada w84gm
TYM	HHE	5735	4062 0711	37.1440	-116.7217	1.4570	Thirsty Mountain, NAFB, Nevada w84gm
TYM	BHZ	5736	4062 0711	37.1440	-116.7217	1.4570	Thirsty Mountain, NAFB, Nevada w84gm
TYM	BHN	5737	4062 0711	37.1440	-116.7217	1.4570	Thirsty Mountain, NAFB, Nevada w84gm
TYM	BHE	5738	4062 0711	37.1440	-116.7217	1.4570	Thirsty Mountain, NAFB, Nevada w84gm
TYM	HHZ	5739	4062 1001	37.1440	-116.7217	1.4570	Thirsty Mountain, NAFB, Nevada w84gm
TYM	HHN	5740	4062 1001	37.1440	-116.7217	1.4570	Thirsty Mountain, NAFB, Nevada w84gm

Appendix 7
Selected Metadata for SPE-6 Surface Stations

Station ID	Channel	Channel ID	Description	Estimated Latitude	Estimated Longitude	Elevation km (amsl)	Location
TYM	HHE	5741	4062 1001	37.1440	-116.7217	1.4570	Thirsty Mountain, NAFB, Nevada w84gm
TYM	BHZ	5742	4062 1001	37.1440	-116.7217	1.4570	Thirsty Mountain, NAFB, Nevada w84gm
TYM	BHN	5743	4062 1001	37.1440	-116.7217	1.4570	Thirsty Mountain, NAFB, Nevada w84gm
TYM	BHE	5744	4062 1001	37.1440	-116.7217	1.4570	Thirsty Mountain, NAFB, Nevada w84gm
TYM	HHZ	5745	4062 0998	37.1440	-116.7217	1.4570	Thirsty Mountain, NAFB, Nevada w84gm
TYM	HHN	5746	4062 0998	37.1440	-116.7217	1.4570	Thirsty Mountain, NAFB, Nevada w84gm
TYM	HHE	5747	4062 0998	37.1440	-116.7217	1.4570	Thirsty Mountain, NAFB, Nevada w84gm
TYM	BHZ	5748	4062 0998	37.1440	-116.7217	1.4570	Thirsty Mountain, NAFB, Nevada w84gm
TYM	BHN	5749	4062 0998	37.1440	-116.7217	1.4570	Thirsty Mountain, NAFB, Nevada w84gm
TYM	BHE	5750	4062 0998	37.1440	-116.7217	1.4570	Thirsty Mountain, NAFB, Nevada w84gm
TYM	EHZ	5751	3387 0998	37.1440	-116.7217	1.4570	Thirsty Mountain, NAFB, Nevada w84gm
TYM	SHZ	5752	3387 0998	37.1440	-116.7217	1.4570	Thirsty Mountain, NAFB, Nevada w84gm
TYM	EHN	5753	3251 0998	37.1440	-116.7217	1.4570	Thirsty Mountain, NAFB, Nevada w84gm
TYM	SHN	5754	3251 0998	37.1440	-116.7217	1.4570	Thirsty Mountain, NAFB, Nevada w84gm
TYM	EHE	5755	3384 0998	37.1440	-116.7217	1.4570	Thirsty Mountain, NAFB, Nevada w84gm
TYM	SHE	5756	3384 0998	37.1440	-116.7217	1.4570	Thirsty Mountain, NAFB, Nevada w84gm
TYM	EHZ	5757	3387 09DBC	37.1440	-116.7217	1.4570	Thirsty Mountain, NAFB, Nevada w84gm
TYM	EHN	5758	3251 09DBC	37.1440	-116.7217	1.4570	Thirsty Mountain, NAFB, Nevada w84gm
TYM	EHE	5759	3384 09DBC	37.1440	-116.7217	1.4570	Thirsty Mountain, NAFB, Nevada w84gm
V12A	HHZ	5936	1668 3211	35.7266	-114.8511	1.0980	Nelson, NV, USA - NN reactivation
V12A	HHN	5937	1668 3211	35.7266	-114.8511	1.0980	Nelson, NV, USA - NN reactivation
V12A	HHE	5938	1668 3211	35.7266	-114.8511	1.0980	Nelson, NV, USA - NN reactivation
WAR3	HHZ	5939	3283 D19E	38.6091	-117.8348	1.9010	Warrior Mine, Nye County, NV, USA
WAR3	HHN	5940	3283 D19E	38.6091	-117.8348	1.9010	Warrior Mine, Nye County, NV, USA
WAR3	HHE	5941	3283 D19E	38.6091	-117.8348	1.9010	Warrior Mine, Nye County, NV, USA
WG01	HHZ	4285	2837 9D8F	37.3144	-115.2940	1.7550	SN NNSS-SPE Weston relocation XA_AZ10
WG01	HHN	4286	2837 9D8F	37.3144	-115.2940	1.7550	SN NNSS-SPE Weston relocation XA_AZ10
WG01	HHE	4287	2837 9D8F	37.3144	-115.2940	1.7550	SN NNSS-SPE Weston relocation XA_AZ10
WG02	EHZ	4288	L41162 9DEA	37.2405	-115.1977	1.3570	SN NNSS-SPE Weston relocation XA_AZ09
WG02	EHN	4289	L41162 9DEA	37.2405	-115.1977	1.3570	SN NNSS-SPE Weston relocation XA_AZ09
WG02	EHE	4290	L41162 9DEA	37.2405	-115.1977	1.3570	SN NNSS-SPE Weston relocation XA_AZ09

Appendix 7
Selected Metadata for SPE-6 Surface Stations

Station ID	Channel	Channel ID	Description	Estimated Latitude	Estimated Longitude	Elevation km (amsl)	Location
WG03	HHZ	4291	1001 9E4B	37.0901	-114.8186	0.9830	SN NNSS-SPE Weston relocation XA_AZ08
WG03	HHN	4292	1001 9E4B	37.0901	-114.8186	0.9830	SN NNSS-SPE Weston relocation XA_AZ08
WG03	HHE	4293	1001 9E4B	37.0901	-114.8186	0.9830	SN NNSS-SPE Weston relocation XA_AZ08
WG04	HHZ	4294	2838 9E42	37.1314	-114.7126	1.0690	SN NNSS-SPE Weston relocation XA_AZ07
WG04	HHN	4295	2838 9E42	37.1314	-114.7126	1.0690	SN NNSS-SPE Weston relocation XA_AZ07
WG04	HHE	4296	2838 9E42	37.1314	-114.7126	1.0690	SN NNSS-SPE Weston relocation XA_AZ07
WG05	HHZ	4297	2831 9E17	37.0769	-114.3395	0.9400	SN NNSS-SPE Weston relocation XA_AZ06
WG05	HHN	4298	2831 9E17	37.0769	-114.3395	0.9400	SN NNSS-SPE Weston relocation XA_AZ06
WG05	HHE	4299	2831 9E17	37.0769	-114.3395	0.9400	SN NNSS-SPE Weston relocation XA_AZ06
WG06	HHZ	4300	2839 9D63	37.1813	-114.1420	1.1310	SN NNSS-SPE Weston relocation XA_AZ05
WG06	HHN	4301	2839 9D63	37.1813	-114.1420	1.1310	SN NNSS-SPE Weston relocation XA_AZ05
WG06	HHE	4302	2839 9D63	37.1813	-114.1420	1.1310	SN NNSS-SPE Weston relocation XA_AZ05
WG07	HHZ	4303	2845 9E18	37.0341	-113.8609	1.1410	SN NNSS-SPE Weston relocation XA_AZ04
WG07	HHN	4304	2845 9E18	37.0341	-113.8609	1.1410	SN NNSS-SPE Weston relocation XA_AZ04
WG07	HHE	4305	2845 9E18	37.0341	-113.8609	1.1410	SN NNSS-SPE Weston relocation XA_AZ04
WG08	EHZ	4306	L41169 9E4F	37.0277	-113.5772	0.8630	SN NNSS-SPE Weston relocation XA_AZ03
WG08	EHN	4307	L41169 9E4F	37.0277	-113.5772	0.8630	SN NNSS-SPE Weston relocation XA_AZ03
WG08	EHE	4308	L41169 9E4F	37.0277	-113.5772	0.8630	SN NNSS-SPE Weston relocation XA_AZ03
WG10	EHZ	4312	L41169 9DAA	37.0681	-113.1290	1.5040	SN NNSS-SPE Weston relocation XA_AZ01
WG10	EHN	4313	L41169 9DAA	37.0681	-113.1290	1.5040	SN NNSS-SPE Weston relocation XA_AZ01
WG10	EHE	4314	L41169 9DAA	37.0681	-113.1290	1.5040	SN NNSS-SPE Weston relocation XA_AZ01
WLD	EHZ	5760	3335 0715	36.7927	-116.6266	0.9660	Wildcat Mountain, Nevada w84gm
WLD	SHZ	5761	3335 0715	36.7927	-116.6266	0.9660	Wildcat Mountain, Nevada w84gm
WLD	EHN	5762	3351 0715	36.7927	-116.6266	0.9660	Wildcat Mountain, Nevada w84gm
WLD	SHN	5763	3351 0715	36.7927	-116.6266	0.9660	Wildcat Mountain, Nevada w84gm
WLD	EHE	5764	3249 0715	36.7927	-116.6266	0.9660	Wildcat Mountain, Nevada w84gm
WLD	SHE	5765	3249 0715	36.7927	-116.6266	0.9660	Wildcat Mountain, Nevada w84gm
WLD	EHZ	5766	3335 0982F	36.7927	-116.6266	0.9660	Wildcat Mountain, Nevada w84gm
WLD	EHN	5767	3351 0982F	36.7927	-116.6266	0.9660	Wildcat Mountain, Nevada w84gm
WLD	EHE	5768	3249 0982F	36.7927	-116.6266	0.9660	Wildcat Mountain, Nevada w84gm
WLD	HGZ	5769	0069 0982F	36.7927	-116.6266	0.9660	Wildcat Mountain, Nevada w84gm

Appendix 7
Selected Metadata for SPE-6 Surface Stations

Station ID	Channel	Channel ID	Description	Estimated Latitude	Estimated Longitude	Elevation km (amsl)	Location
WLD	HGN	5770	0069 0982F	36.7927	-116.6266	0.9660	Wildcat Mountain, Nevada w84gm
WLD	HGE	5771	0069 0982F	36.7927	-116.6266	0.9660	Wildcat Mountain, Nevada w84gm
WLD	EHZ	5772	3335 Q3264	36.7927	-116.6266	0.9660	Wildcat Mountain, Nevada w84gm
WLD	EHN	5773	3351 Q3264	36.7927	-116.6266	0.9660	Wildcat Mountain, Nevada w84gm
WLD	EHE	5774	3249 Q3264	36.7927	-116.6266	0.9660	Wildcat Mountain, Nevada w84gm
WLD	HGZ	5775	0069 Q3264	36.7927	-116.6266	0.9660	Wildcat Mountain, Nevada w84gm
WLD	HGN	5776	0069 Q3264	36.7927	-116.6266	0.9660	Wildcat Mountain, Nevada w84gm
WLD	HGE	5777	0069 Q3264	36.7927	-116.6266	0.9660	Wildcat Mountain, Nevada w84gm
WLDB	HHZ	5942	3546 9833	36.7927	-116.6266	0.9550	Wildcat Mountain, NV, USA analog reactivation
WLDB	HHN	5943	3546 9833	36.7927	-116.6266	0.9550	Wildcat Mountain, NV, USA analog reactivation
WLDB	HHE	5944	3546 9833	36.7927	-116.6266	0.9550	Wildcat Mountain, NV, USA analog reactivation
YCW	EHZ	5778	3243 0756	36.9224	-116.4765	1.4980	Yucca Wash, NTS, Nevada w84
YCW	SHZ	5779	3243 0756	36.9224	-116.4765	1.4980	Yucca Wash, NTS, Nevada w84
YCW	EHN	5780	3244 0756	36.9224	-116.4765	1.4980	Yucca Wash, NTS, Nevada w84
YCW	SHN	5781	3244 0756	36.9224	-116.4765	1.4980	Yucca Wash, NTS, Nevada w84
YCW	EHE	5782	3248 0756	36.9224	-116.4765	1.4980	Yucca Wash, NTS, Nevada w84
YCW	SHE	5783	3248 0756	36.9224	-116.4765	1.4980	Yucca Wash, NTS, Nevada w84
YCW	EHZ	5784	3243 0757	36.9224	-116.4765	1.4980	Yucca Wash, NTS, Nevada w84
YCW	SHZ	5785	3243 0757	36.9224	-116.4765	1.4980	Yucca Wash, NTS, Nevada w84
YCW	EHN	5786	3244 0757	36.9224	-116.4765	1.4980	Yucca Wash, NTS, Nevada w84
YCW	SHN	5787	3244 0757	36.9224	-116.4765	1.4980	Yucca Wash, NTS, Nevada w84
YCW	EHE	5788	3248 0757	36.9224	-116.4765	1.4980	Yucca Wash, NTS, Nevada w84
YCW	SHE	5789	3248 0757	36.9224	-116.4765	1.4980	Yucca Wash, NTS, Nevada w84
YCW	EHN	5790	3370 0757	36.9224	-116.4765	1.4980	Yucca Wash, NTS, Nevada w84
YCW	SHN	5791	3370 0757	36.9224	-116.4765	1.4980	Yucca Wash, NTS, Nevada w84
YCW	HGZ	5792	0232 0757	36.9224	-116.4765	1.4980	Yucca Wash, NTS, Nevada w84
YCW	HGN	5793	0232 0757	36.9224	-116.4765	1.4980	Yucca Wash, NTS, Nevada w84
YCW	HGE	5794	0232 0757	36.9224	-116.4765	1.4980	Yucca Wash, NTS, Nevada w84
YCW	EHZ	5795	3243 0982C	36.9224	-116.4765	1.4980	Yucca Wash, NTS, Nevada w84
YCW	EHN	5796	3370 0982C	36.9224	-116.4765	1.4980	Yucca Wash, NTS, Nevada w84
YCW	EHE	5797	3248 0982C	36.9224	-116.4765	1.4980	Yucca Wash, NTS, Nevada w84

Appendix 7
Selected Metadata for SPE-6 Surface Stations

Station ID	Channel	Channel ID	Description	Estimated Latitude	Estimated Longitude	Elevation km (amsl)	Location
YCW	HGZ	5798	0083 0982C	36.9224	-116.4765	1.4980	Yucca Wash, NTS, Nevada w84
YCW	HGN	5799	0083 0982C	36.9224	-116.4765	1.4980	Yucca Wash, NTS, Nevada w84
YCW	HGE	5800	0083 0982C	36.9224	-116.4765	1.4980	Yucca Wash, NTS, Nevada w84
YCW	EHZ	5801	3243 Q3277	36.9224	-116.4765	1.4980	Yucca Wash, NTS, Nevada w84
YCW	EHN	5802	3370 Q3277	36.9224	-116.4765	1.4980	Yucca Wash, NTS, Nevada w84
YCW	EHE	5803	3248 Q3277	36.9224	-116.4765	1.4980	Yucca Wash, NTS, Nevada w84
YCW	HGZ	5804	0083 Q3277	36.9224	-116.4765	1.4980	Yucca Wash, NTS, Nevada w84
YCW	HGN	5805	0083 Q3277	36.9224	-116.4765	1.4980	Yucca Wash, NTS, Nevada w84
YCW	HGE	5806	0083 Q3277	36.9224	-116.4765	1.4980	Yucca Wash, NTS, Nevada w84
YFT	EHZ	5807	0447 7896	37.0762	-115.9744	1.3540	Yucca Flat, NTS, Nevada w84gm
YFT	EHN	5808	0155 7896	37.0762	-115.9744	1.3540	Yucca Flat, NTS, Nevada w84gm
YFT	EHE	5809	0170 7896	37.0762	-115.9744	1.3540	Yucca Flat, NTS, Nevada w84gm
YFT	EHZ	5810	0447 0999	37.0762	-115.9744	1.3540	Yucca Flat, NTS, Nevada w84gm
YFT	SHZ	5811	0447 0999	37.0762	-115.9744	1.3540	Yucca Flat, NTS, Nevada w84gm
YFT	EHN	5812	0155 0999	37.0762	-115.9744	1.3540	Yucca Flat, NTS, Nevada w84gm
YFT	SHN	5813	0155 0999	37.0762	-115.9744	1.3540	Yucca Flat, NTS, Nevada w84gm
YFT	EHE	5814	0170 0999	37.0762	-115.9744	1.3540	Yucca Flat, NTS, Nevada w84gm
YFT	SHE	5815	0170 0999	37.0762	-115.9744	1.3540	Yucca Flat, NTS, Nevada w84gm
YFT	EHZ	5816	0447 7884	37.0762	-115.9744	1.3540	Yucca Flat, NTS, Nevada w84gm
YFT	EHN	5817	0155 7884	37.0762	-115.9744	1.3540	Yucca Flat, NTS, Nevada w84gm
YFT	EHE	5818	0170 7884	37.0762	-115.9744	1.3540	Yucca Flat, NTS, Nevada w84gm
YFT	EHZ	5819	0447 0713	37.0762	-115.9744	1.3540	Yucca Flat, NTS, Nevada w84gm
YFT	SHZ	5820	0447 0713	37.0762	-115.9744	1.3540	Yucca Flat, NTS, Nevada w84gm
YFT	EHN	5821	0155 0713	37.0762	-115.9744	1.3540	Yucca Flat, NTS, Nevada w84gm
YFT	SHN	5822	0155 0713	37.0762	-115.9744	1.3540	Yucca Flat, NTS, Nevada w84gm
YFT	EHE	5823	0170 0713	37.0762	-115.9744	1.3540	Yucca Flat, NTS, Nevada w84gm
YFT	SHE	5824	0170 0713	37.0762	-115.9744	1.3540	Yucca Flat, NTS, Nevada w84gm
YFT	EHZ	5825	0447 0711	37.0762	-115.9744	1.3540	Yucca Flat, NTS, Nevada w84gm
YFT	SHZ	5826	0447 0711	37.0762	-115.9744	1.3540	Yucca Flat, NTS, Nevada w84gm
YFT	EHN	5827	0155 0711	37.0762	-115.9744	1.3540	Yucca Flat, NTS, Nevada w84gm
YFT	SHN	5828	0155 0711	37.0762	-115.9744	1.3540	Yucca Flat, NTS, Nevada w84gm

Appendix 7
Selected Metadata for SPE-6 Surface Stations

Station ID	Channel	Channel ID	Description	Estimated Latitude	Estimated Longitude	Elevation km (amsl)	Location
YFT	EHE	5829	0170 0711	37.0762	-115.9744	1.3540	Yucca Flat, NTS, Nevada w84gm
YFT	SHE	5830	0170 0711	37.0762	-115.9744	1.3540	Yucca Flat, NTS, Nevada w84gm
YFT	EHZ	5831	0447 0843	37.0762	-115.9744	1.3540	Yucca Flat, NTS, Nevada w84gm
YFT	SHZ	5832	0447 0843	37.0762	-115.9744	1.3540	Yucca Flat, NTS, Nevada w84gm
YFT	EHN	5833	0155 0843	37.0762	-115.9744	1.3540	Yucca Flat, NTS, Nevada w84gm
YFT	SHN	5834	0155 0843	37.0762	-115.9744	1.3540	Yucca Flat, NTS, Nevada w84gm
YFT	EHE	5835	0170 0843	37.0762	-115.9744	1.3540	Yucca Flat, NTS, Nevada w84gm
YFT	SHE	5836	0170 0843	37.0762	-115.9744	1.3540	Yucca Flat, NTS, Nevada w84gm
YFT	EHZ	5837	0447 7884	37.0762	-115.9744	1.3540	Yucca Flat, NTS, Nevada w84gm
YFT	EHN	5838	0155 7884	37.0762	-115.9744	1.3540	Yucca Flat, NTS, Nevada w84gm
YFT	EHE	5839	0170 7884	37.0762	-115.9744	1.3540	Yucca Flat, NTS, Nevada w84gm
YFT	EHZ	5840	0447 1000	37.0762	-115.9744	1.3540	Yucca Flat, NTS, Nevada w84gm
YFT	SHZ	5841	0447 1000	37.0762	-115.9744	1.3540	Yucca Flat, NTS, Nevada w84gm
YFT	EHN	5842	0155 1000	37.0762	-115.9744	1.3540	Yucca Flat, NTS, Nevada w84gm
YFT	SHN	5843	0155 1000	37.0762	-115.9744	1.3540	Yucca Flat, NTS, Nevada w84gm
YFT	EHE	5844	0170 1000	37.0762	-115.9744	1.3540	Yucca Flat, NTS, Nevada w84gm
YFT	SHE	5845	0170 1000	37.0762	-115.9744	1.3540	Yucca Flat, NTS, Nevada w84gm
YFT	EHZ	5846	0447 0982A	37.0762	-115.9744	1.3540	Yucca Flat, NTS, Nevada w84gm
YFT	EHN	5847	0155 0982A	37.0762	-115.9744	1.3540	Yucca Flat, NTS, Nevada w84gm
YFT	EHE	5848	0170 0982A	37.0762	-115.9744	1.3540	Yucca Flat, NTS, Nevada w84gm

Appendix 8

Selected Metadata for SPE-6 Infrasound Sensors

Appendix 8
Selected Metadata for SPE-6 Infrasound Sensors

Station	Sensor	Sensor Serial Number	Sensor Model Number	Seismically Decoupled	Latitude	Longitude	Altitude
HOVR	Hyperion Analog	20160907.005	IFS-3111	N	37.20335418	-116.0856125	1559.188073
HOVR	Hyperion Analog	20160907.005	IFS-3111	N	37.20335418	-116.0856125	1559.188073
IS11	Hyperion Analog	20150506.003	IFS-5111/GP	Y	37.22349907	-116.0613576	1545.12
IS12	Hyperion Analog	20150506.004	IFS-5111/GP	Y	37.22337515	-116.0611143	1541.9
IS13	Hyperion Analog	20150506.009	IFS-5111/GP	Y	37.22316381	-116.0609204	1538.49
IS14	Hyperion Analog	20120409.035	IFS-3113	N	37.22321183	-116.0613577	1545.09
IS14	Hyperion Analog	SD20140729.08	UMiss_HighGain	Y	37.22321183	-116.0613577	1545.09
IS21	Hyperion Analog	20150506.006	IFS-5111/GP	Y	37.21927792	-116.0604162	1513.81
IS22	Hyperion Analog	20150506.008	IFS-5111/GP	Y	37.21903553	-116.0605289	1516.28
IS23	Hyperion Analog	20150506.002	IFS-5111/GP	Y	37.21888831	-116.0602533	1512.04
IS24	Hyperion Analog	20120409.009	IFS-3113	N	37.21884643	-116.0607566	1518.21
IS24	Hyperion Analog	SD20140729.06	UMiss_HighGain	Y	37.21884643	-116.0607566	1518.21
IS31	Hyperion Analog	20150506.011	IFS-5111/GP	Y	37.22192908	-116.0635104	1570.41
IS32	Hyperion Analog	20150506.001	IFS-5111/GP	Y	37.22168278	-116.0636245	1565.88
IS33	Hyperion Analog	20150506.012	IFS-5111/GP	Y	37.22151502	-116.0634136	1559.74
IS34	Hyperion Analog	20120409.046	IFS-3113	N	37.22150072	-116.0637758	1562.74
IS34	Hyperion Analog	SD20140729.05	UMiss_HighGain	Y	37.22150072	-116.0637758	1562.74
IS41	Hyperion Analog	20140823.001	IFS-5113	Y	37.22351037	-116.0578594	1532.46
IS42	Hyperion Analog	20140217.014	IFS-5113	Y	37.22326838	-116.0579521	1531.53
IS43	Hyperion Analog	SD20140729.09	UMiss_HighGain	Y	37.22316344	-116.0576491	1530.15
IS44	Hyperion Analog	20120409.029	IFS-3113	N	37.22327116	-116.0582482	1530.07
IS51	Hyperion Analog	20120409.011	IFS-3113	N	37.17759606	-116.0540671	1310.68
IS52	Hyperion Analog	20120409.021	IFS-3113	N	37.17734176	-116.054173	1310.68
IS53	Hyperion Analog	20120409.045	IFS-3113	N	37.17712343	-116.053971	1310.71
IS54	Hyperion Analog	20120409.040	IFS-3113	N	37.17730556	-116.0545078	1310.59
IS61	Hyperion Analog	20120409.007	IFS-3113	N	37.21250445	-116.0594694	1483.29
IS62	Hyperion Analog	20120409.033	IFS-3113	N	37.21224143	-116.0594418	1482.61
IS63	Hyperion Analog	20120409.031	IFS-3113	N	37.21228277	-116.0591248	1480.91
IS64	Hyperion Analog	20120409.043	IFS-3113	N	37.21212474	-116.0597617	1482.06
IS71	Hyperion Analog	20120409.010	IFS-3113	N	37.20355036	-116.0581353	1426.73
IS72	Hyperion Analog	20120409.044	IFS-3113	N	37.20329787	-116.0581242	1425.28
IS73	Hyperion Analog	20120409.036	IFS-3113	N	37.20332272	-116.0577872	1420.05
IS74	Hyperion Analog	20120409.037	IFS-3113	N	37.20330717	-116.0583422	1426.06
IS81	Hyperion Analog	20120409.041	IFS-3113	N	37.22122868	-116.0494264	1480.29
IS82	Hyperion Analog	20120409.020	IFS-3113	N	37.22098432	-116.0493852	1478.66
IS83	Hyperion Analog	20120409.008	IFS-3113	N	37.22083201	-116.0491188	1476.65
IS84	Hyperion Analog	20120409.034	IFS-3113	N	37.22085396	-116.0496641	1478.73
ISS1	Hyperion Ultralight	20150902.001	IFS-5111/UL	Y	37.20362086	-116.0860176	1537.46708
ISS1	Hyperion Ultralight	20150902.001	IFS-5111/UL	Y	37.20362086	-116.0860176	1537.46708
ISS2	Hyperion Digital	20150202.002	IFS-5241	Y	37.20367779	-116.0852161	1565.656
ISS2	Hyperion Digital	20150202.002	IFS-5241	Y	37.20367779	-116.0852161	1565.656
ISS3	Hyperion Analog	20160907.003	IFS-3111	N	37.20300629	-116.0860095	1552.260274
ISS3	Hyperion Analog	20160907.003	IFS-3111	N	37.20300629	-116.0860095	1552.260274
LNCH	Hyperion Ultralight	20160111.001	IFS-5111/UL	Y	37.20247562	-116.0868993	1524.942
UASI	Hyperion Ultralight	20160111.002	IFS-5111/UL	Y	37.2030258	-116.0860338	1974.629932

List of Attachments

1. Smith, K., and G. Plank, 2019. *Non-SPE Stations Operated on NNSS, in Southern Nevada and in Eastern California by NSL*. University of Nevada, Reno Nevada Seismological Laboratory.
2. Mellors, R. J., T. Chen, C. Snelson, A. Pitarka, E. Matzel, and R. Abbott, 2017. *Data Report: The Source Physics Experiment Large N Array*. Lawrence Livermore National Laboratory Report LLNL-TR-732520.
3. Schalk, Walter, 2018. Written Communication prepared by the NNSS Weather Forecast Air Resources Laboratory/Special Operations and Research Division. *SPE-5 Weather Data Collection*. Mercury, NV.
4. Schalk, Walter, 2018. Written Communication prepared by the NNSS Weather Forecast Air Resources Laboratory/Special Operations and Research Division. *SPE-6 Weather Data Collection*. Mercury, NV.
5. Wharton, Sonia, 2018. *SPE6 Atmospheric Lidar Data User Guide*. Lawrence Livermore National Laboratory Report LLNL-TR-764520.

Attachment 1

Smith, K., and G. Plank, 2019. *Non-SPE Stations Operated on NNSS, in Southern Nevada and in Eastern California by NSL*. University of Nevada, Reno Nevada Seismological Laboratory.

Non-SPE Stations Operated on NNSS, in S. Nevada and in E. California by NSL January 5, 2019

Table 1 lists regional broadband stations that were installed or operation reestablished in late 2015 for the SPE-5 and SPE-6 experiments. Table 2 includes locations of stations listed in Table 1. Table 2 also includes locations and information for other stations operated by NSL or the USGS (i.e., TPH, TPNV) in S. Nevada on or near NNSS. Permanent telemetered digital stations DSP, BMN and PIO were established (PIO is a new site) prior to SPE-5/-6. Descriptive information for the newly installed stations is included in Table 1. Table 2 whether stations are configured with short period (SP - Three-component S-13 sensors) or broadband (BB – various broadband sensors described in the metadata for the experiment) sensors. Stations are defined as Legacy analog or digital (recorded UNEs), Live (real-time telemetry in place), recorded the 1993 Non-Proliferation Experiment (NPE – Zucca, 1993) and/or the Kinibito UNEs (Chavez and Priestley, 1986). All stations listed are digital stations, no existing analog stations operation by NSL are listed. All data is included in the data report and all NSL data, in northern and southern Nevada and eastern California is available from the IRIS Data Management Center (DMC) in Seattle, Washington (<http://ds.iris.edu/ds/nodes/dmc/>).

The signal from SPE-5, and in some cases for the smaller SPE-6, can be seen out to 300-400 km distance. Data from most adjoining regional networks are available from the IRIS DMC (i.e., Utah, Arizona). Seismic waveform data from the Southern California Seismic network (network code CI) are available at Southern California Data Center (<http://scedc.caltech.edu/research-tools/waveform.html>) and data from Northern California networks (NC – USGS Northern California Network; BK – UC Berkeley Seismic Network) are available from the NCEDC (Northern California Earthquake Data Center; <http://ncedc.org>).

For Table 1: * Legacy digital or analog station
 ** Reoccupation of EarthScope TA sites
 *** NPE N-S Line and Kinibito UNE
 **** NPE E-W Line

Table 1. Digital Broadband Stations added prior to SPE-5/-6

DSP:	Live NSL microwave	*	Legacy digital
BMN:	Live NSL microwave	*	Legacy digital
CPYB:	Live NSL microwave	*	Legacy analog
STHB:	Live NSL microwave	*	Legacy analog
WLDB:	Live NSL microwave	*	Legacy analog
GMN:	Live NSL microwave	*	Legacy analog
MZPB:	Live NSL microwave	*	Legacy analog
DAC:	Standalone, manual data pickup	*	Legacy Digital
Q09A:	Live cellular	**	
Q12A:	Live NSL microwave	**	
Q11A:	Standalone, manual data pickup	**	
R10A:	Standalone, manual data pickup	**	
R09A:	Standalone, manual data picked	**	
S11A:	Live cellular	**	
V12A:	Live NSL microwave	**	
CMK6:	Live to UNR microwave	***	
OUT1:	Live Cellular	***	
BRH5:	Standalone, manual data pickup	***	
ION4:	Standalone, manual data pickup	***	

BRS2: Standalone, manual data pickup ***
 WAR3: Standalone, manual data pickup ***
 WG01: Weston, manual data pickup ****
 WG02: Weston, manual data pickup ****
 WG03: Weston, manual data pickup ****
 WG04: Weston, manual data pickup ****
 WG05: Weston, manual data pickup ****
 WG06: Weston, manual data pickup ****
 WG07: Weston, manual data pickup ****
 WG08: Weston, manual data pickup ****
 WG09: Weston, manual data pickup ****
 PIO: Live cellular - new site

Table 2. Station Locations in the Central and Southern NV Area

Stat. Lat. Lon. Elevation (km)

Weston NPE E W Line Reoccupation				
WG01	37.3144	115.2940	1.75 BB	
WG02	37.2405	115.1977	1.35 BB	
WG03	37.0901	114.8186	0.98 BB	
WG04	37.1314	114.7126	1.06 BB	
WG05	37.0769	114.3395	0.94 BB	
WG06	37.1813	114.1420	1.13 BB	
WG07	37.0341	113.8609	1.14 BB	
WG08	37.0277	113.5772	0.86 BB	
WG10	37.0681	113.1290	1.50 BB	

NSF EarthScope Station - Reoccupation (TA network)

S11A	37.6444	115.7472	1.45	
Q09A	38.8340	117.1816	1.70	
V12A	35.7266	114.8511	1.09	
Q12A	39.0400	114.8299	1.62	
Q11A	38.8455	115.6541	1.56	
R10A	38.2886	116.3021	1.60	
R09A	38.2397	117.0718	1.75	

NPE N-S Line and Kinibito Line - Reoccupation

CMK6	39.3102	118.1193	1.33	
BRH5	39.0544	118.0356	1.60	
ION4	38.8851	117.7380	1.97	
BRS2	38.5264	117.6306	1.73	
WAR3	38.6091	117.8348	1.90	
OUT1	38.3268	117.5157	1.65	

Legacy Analog Site - Digital - Reoccupation

CPYB	36.9319	116.0564	1.27	
STHB	36.6454	116.3388	1.05	
WLDB	36.7927	116.6266	0.95	
MZPB	37.7008	117.3838	2.37	
GMN	37.3003	117.2607	2.16	

Legacy Digital Stations - Reestablished

BMN	40.4314	117.2210	1.59	
DAC	36.2770	117.5937	1.81	
DSP	37.3680	117.9722	1.69	

<u>Permanent S. NV Stations Installed in 2015</u>			
PIO	37.9472	-114.4914	1.88 BB/NSL

<u>NNSS Rock Valley Area Stations</u>			
RVNE	36.7607	-116.1054	1.32 BB
RVSE	36.6959	-116.0984	1.15 BB
RVEE	36.7116	-116.1068	1.13 SP + Borehole
RTPP	36.7214	-116.1290	1.15 SP + Borehole
RVFF	36.7285	-115.9854	1.07 BB
NSP	36.7278	-116.2124	1.24 SP
SPRS	36.6882	-116.1781	1.09 BB
JFR2	36.6877	-116.1526	1.09 BB
MCY	36.6618	-115.9623	1.25 BB

<u>Permanent NNSS Digital Stations</u>			
TPNV	36.9488	-116.2495	1.60 USGS/US Net
PUV	36.9494	-115.9642	1.25 SP
YFT	37.0762	-115.9744	1.35 SP
TWP	37.2047	-116.1243	1.57 SP
ECO	37.2108	-116.3305	2.23 SP
STC	37.2938	-116.4367	1.97 SP
DOM	37.0021	-116.4095	1.71 SP
TPW	36.9016	-116.2528	1.57 SP
TIM	37.0667	-116.4703	1.87 SP

<u>Other BB and SP Stations Operated by NSL in S. Nevada</u>			
PRN	37.4065	-115.0512	1.46 BB
SHP	36.5047	-115.1567	1.63 BB
SPR3	38.9989	-114.3314	2.81 BB
HEL	36.7246	-116.9759	0.74 BB
TPH	37.1440	-116.7217	1.45 BB/USGS US Net
QSM	35.9650	-116.8691	0.38 BB
GWY	36.1859	-116.6697	1.55 BB
LCH	37.2329	-117.6459	1.41 BB
AMD	36.4526	-116.2818	0.77 SP
LEC	36.5627	-116.6905	1.11 SP
SGR	36.9804	-117.0336	1.56 SP
BTW	36.9978	-116.5674	1.39 SP
TYM	37.1440	-116.7217	1.45 SP

References:

Chavez, D. E., and K. F. Priestly (1986), "Measurement of Frequency-Dependent L Attenuation in the Great Basin," *Geophys. Res. Lett.*, 13, pp. 551-554.

Zucca, J. (1993), DOE Non-Proliferation Experiment includes seismic data, v. 74, issue 45, 9 November 1993 Page 527, DOI: 10.1029/93EO00678.

Attachment 2

Mellors, R. J., T. Chen, C. Snelson, A. Pitarka, E. Matzel, and R. Abbott, 2017. *Data Report: The Source Physics Experiment Large N Array*. Lawrence Livermore National Laboratory Report LLNL-TR-732520.



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LLNL-TR-732520

Data Report: The Source Physics Experiment Large N Array

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Matzel, R. Abbott

June 6, 2017

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This work performed under the auspices of the U.S. Department of Energy by Lawrence Livermore National Laboratory under Contract DE-AC52-07NA27344.

Data Report: The Source Physics Experiment Large N Array

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Summary. A temporary deployment of 996 geophones, including a mix of vertical and three component sensors, was installed from April 18 to May 20, 2016 at the NNSS (Figure 1). Sensor spacing varied from 25 to 100 m and consisted of 500 Z and 496 3C 5 Hz geophones. Data was recorded continuously during the deployment at low-gain from April 18 to April 28 and high-gain (36 db) from April 29 to May 23. A buried (76.5 m) 5000 kg TNT equivalent chemical explosion (SPE5) was recorded on April 26. The array was deployed 400 to 3000 m from the shot, which was situated in a weathered granite body surrounded by volcanic tuffs, Paleozoic carbonates, and alluvium. A set of large weight-drops at 53 locations both inside and outside the geophone array were also recorded, as were local, regional, and teleseismic earthquakes. Data recovery was good, with 95% of data recovered from the shot and up to 99% in the following weeks.

Table of Contents

Data Report: The Source Physics Experiment Large N Array	1
Summary	1
Table of Contents	1
Table of Figures	2
Introduction.	3
Planning and deployment.	3
Metadata.....	6
Weight drop survey.....	10
Delivered data format.....	11
Appendix A. Re-measured 3C geophones	15
Appendix B. Station coordinates formats	16
Appendix C. Weight drop locations.....	19
Appendix D. Selected local and teleseismic events recorded by the Large N array.....	20

Table of Figures

Figure 1. Layout of Large N array, permanent array (radial lines), and location of SPE 5 shot (yellow star). The green line denotes the approximate outline of the granite (Climax Stock).	4
Figure 2. (left) Example of geophone deployment, battery, and digitizer. (right) Truck with field computer and racks for downloading data and charging batteries.	5
Figure 3(left) Jig used to orient horizontal geophones. A compass is in the handle .(right) Deployed Z component geophone and digitizer/disk storage unit.	5
Figure 4. View of computer screen in truck that tracks installation of array.	6
Figure 5. Maps of array showing lines numbers (left) and station numbers (right). 3C data stationsn begin with "3" and Z only stations begin with "1"	7
Figure 5. (top) Maximum amplitude for data recorded by horizontal geophones plotted versus distance. (bottom) Maximum amplitude for Z component geophones versus distance. A few clipped at the digitizer.....	8
Figure 6. Example waveforms (Z) recorded for a roughly north/south line (left) and east-west (right). The east-west line lies in granite while the north-south is in alluvium.	8
Figure 7. (left) Outline of Large N array and first-arrival travel times for the P wave.(right) Reduces travel time of SPE5 shot by azimuth from GZ.	9
Figure 9. Local earthquake measured across the array.....	10
Figure 10. Filtered (1 Hz lowpass) teleseismic signal. Left is in Yucca Flat and right is from Climax Stock.....	10
Figure 11. Map view images of the wave front showing evolution of the wave front.....	9
Figure 12. Example of different hammer strikes with timing based on Reftek (top) and proximal geophone (bottom). The original data was based on the Reftek time but was later recut based on the proximal geophone.	12
Figure 13. Example shot gather from weight drop survey.	12
Figure 14. Map view image of wavefront from a single weight drop recorded across the array.13	
Figure 15. Example of signals generated by the large weight drop near the boundary with the Climax Stock.	13
Figure 16. Map of Large N array.....	17

Introduction. The overall goal is to understand and model the role of subsurface heterogeneities with respect to other mechanisms such as topography and near-source effects in generating the observed S wave and surface wave energy. Primary focus is on regions with transitional geology (granite to alluvium) and topographic variations as imaged by both active, passive, and receiver functions and by comparison with 3D finite difference synthetics. Results show substantial differences in waveforms and associated particle motions over small spatial distances with considerable coda consisting of apparent basin reverberation. Waveforms generated by the weight drop also displayed considerable variation over short distances and azimuths. Teleseismic P waveforms appear relatively simple on stations located in the granite but show more complexity in the alluvium.

Planning and deployment. The sensors, recording equipment, and deployment crew were subcontractors from Optim., Inc. and Greyco. The deployment was planned to recover the seismic wavefield at high spatial resolution and to image converted waves from the Climax Stock/Yucca Flat boundary. Budget and logistics restricted the total number of sensors to 500 3 C and 500 Z and therefore a mixed spacing was planned. Velocity sensors were used to be consistent with the existing permanent sensors although accelerometers were an option.

Table 1. Sensor parameters

Sensor	N	Corner	Type	Orientation	Sample rate	Channel
Vertical (Z)	500	5 Hz	DT-SOLO	Vertical	500	CLZ
Three-component	496	5 Hz	Sercel SG-5	Vertical	500	CLZ
		5 Hz	Sercel SG-5	East-West	500	CH1
		5 Hz	Sercel SG-5	North-South	500	CH2

Table 2. Timeline

date	event	comments
4/18/16	First data recorded	Low gain (1)
4/26/16 (117) 20:49:00.000 5035 kg TNT equiv.	SPE5 shot time	Lon: -116.0608673 Lat: 37.221207 Depth: 76 m
5/5/16	Digitizer/disks re-installed after post-shot removal	High gain (36 db)
5/9/16 – 5/20/17	Hammer time	High gain (36 db)
5/23/16	Last station removed	High gain (36 db)

The primary focus was in the area to the southeast of the shot which was logistically easiest and could capture the converted waves (Figure 1). As the wavespeed in the shallow alluvium was exceptionally slow (S waves on the order to 500 m/s) we chose a tight spacing of 50 m surrounded by 100 m spacing. To evaluate aliasing, two lines of 25 m spacing were deployed roughly north-south in the alluvium and east-west in the granite. A staggered grid alternating Z and 3C were

chosen. The extreme southeast corner was not covered as it was the site of a previous facility which presented potential complications in deployment. To avoid clipping from the SPE5 shot, the nearest geophones were deployed approximately 400 m from the shot point. Orientations were set at Z, N-S, and E-W. The sample rate was set at 500 Hz. Gains were set at 1 from the initial deployment until after the SPE5 shot (Table 1). Following the shot, gains were reset to the maximum setting (36 db).

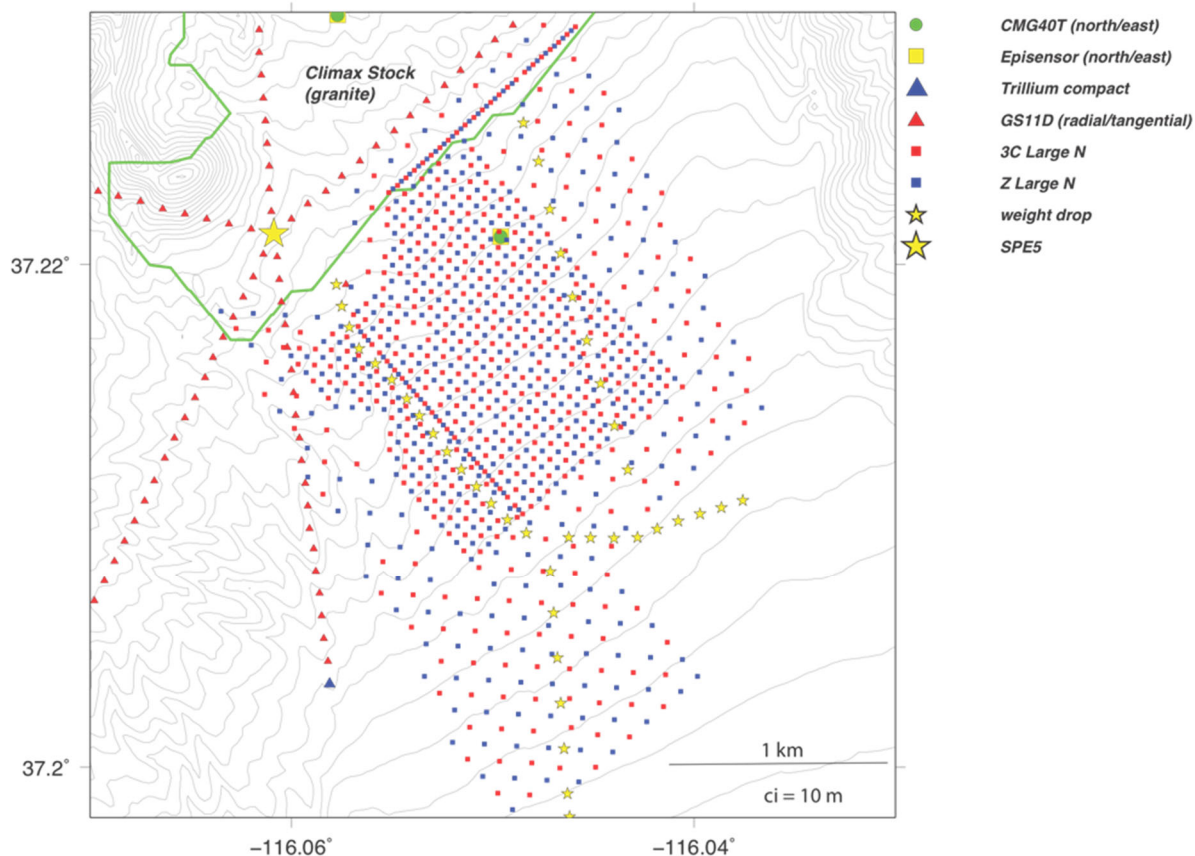


Figure 1. Layout of Large N array, permanent array (radial lines), and location of SPE 5 shot (yellow star). The green line denotes the approximate outline of the granite (Climax Stock).

The initial site selection was conducted one month before the shot in late March. Location marked with flags and recorded using Nevada State Plane NAD27 Central Zone 2702 (feet). Geophone deployment began two weeks (April 13) before the shot. Some delays were encountered due to missing equipment (generators) but this was remedied by prompt efforts by NSTEC staff and the field leads. The crew were restricted on hours per day due to travel time to site (about 1 hour one-way) and restrictions due to safety. Electric hand augurs were used to drill holes for each geophone (gasoline powered ones were not permitted due to NNSS rules). Sensors has bubble levels for leveling (Figure 2 and Figure 3). Horizontal sensors were oriented using an aluminum jig with compass. The sensor package consisted of geophones (either vertical or 3C), a battery, and digitizer/disk storage. Battery life was expected to be approximately two weeks. Disk storage was about two weeks for the 3C and one month for the Z component.

All sensors were in the ground by April 22 but QC was ongoing until April 24. QC was conducted by downloading parameters via wireless in the field and downloading to the central computer in the truck (Figure 4). This tracked battery life, data, and key geophone information, such as level and damping. Any geophones with issues were noted and the crew would return to the field to fix. At the time of the shot 95% of the geophones showed high-quality. However, spot checks on orientation indicated that some of the horizontals had substantial errors in orientation, possibly due to interference with the compass from metal or operator error. The decision was made to re-measure all horizontals but not change orientation.



Figure 2. (left) Example of geophone deployment, battery, and digitizer. (right) Truck with field computer and racks for downloading data and charging batteries.



Figure 3(left) Jig used to orient horizontal geophones. A compass is in the handle. (right) Deployed Z component geophone and digitizer/disk storage unit. The sensor package consisted of geophones (either vertical or 3C), a battery, and digitizer/disk storage. Battery life was expected to be approximately two weeks. Disk storage was about two weeks for the 3C and one month for the Z component.



Figure 4. View of computer screen in truck that tracks installation of array.

Following the SPE5 shot on April 26, 2016, the disk units were retrieved from the field for data download from the truck. While it was possible to download selected data segments in the field via wireless, this was relatively slow and the preferred process was to pull all disks and batteries while leaving the geophones in place. The data was downloaded, batteries re-charged as needed, and parameters reset, which was changing the gain setting from 1 to 36 db for increased sensitivity.

Disks and batteries were re-deployed by May 1 and ready for the large weight drop campaign, which ran from May 9 to May 20. QC was conducted and estimated data recovery was at 98%. The weight drop was run at a set of 53 different locations with multiple repeated shots at each for a total of 507 shots. Some clipping was observed at sensors locations near the shots but in general data recovery was good. After the active source campaign was concluded, the sensors, disks, and batteries extracted from the field and data downloaded to the computer. All equipment was checked by the safety personnel at NNSS and approved to take off site. Equipment was removed by May 26, 2016.

Metadata. Initial location for stations were provided in Nevada State Plane and then converted to UTM. Sensor location names are defined by line (NE-SW) and crossline (NW-SE) numbers (Figure 5), with 3C stations beginning with 3 and 1C (Z) beginning with 1. The three-component sensor on line 101 and crossline 123 would be referred to as 3101-123 and the one-component sensor on line 101 and crossline 125 would be 1101-125. The SEG Y headers were also populated correctly. In general, absolute timing for the data appears good (GPS, no obvious errors) although a few individual stations appear off by several seconds. The SEG Y headers only have channel numbers (1, 2 or 3) but do not have azimuth or inclination information. The geophones are marked 'inline' and 'cross-line' and it was not immediately apparent which number referred to which horizontal. Orientation is by cardinal directions and not inline/crossline. Channel 1 is Z, channel 2 is east-west and channel 3 north-south (this took some checking). As mentioned previously, the orientation of the horizontals was subject to error and an estimated 20% had significant orientation error but a set of corrections based on field notes taken after the sensors were measured are available.

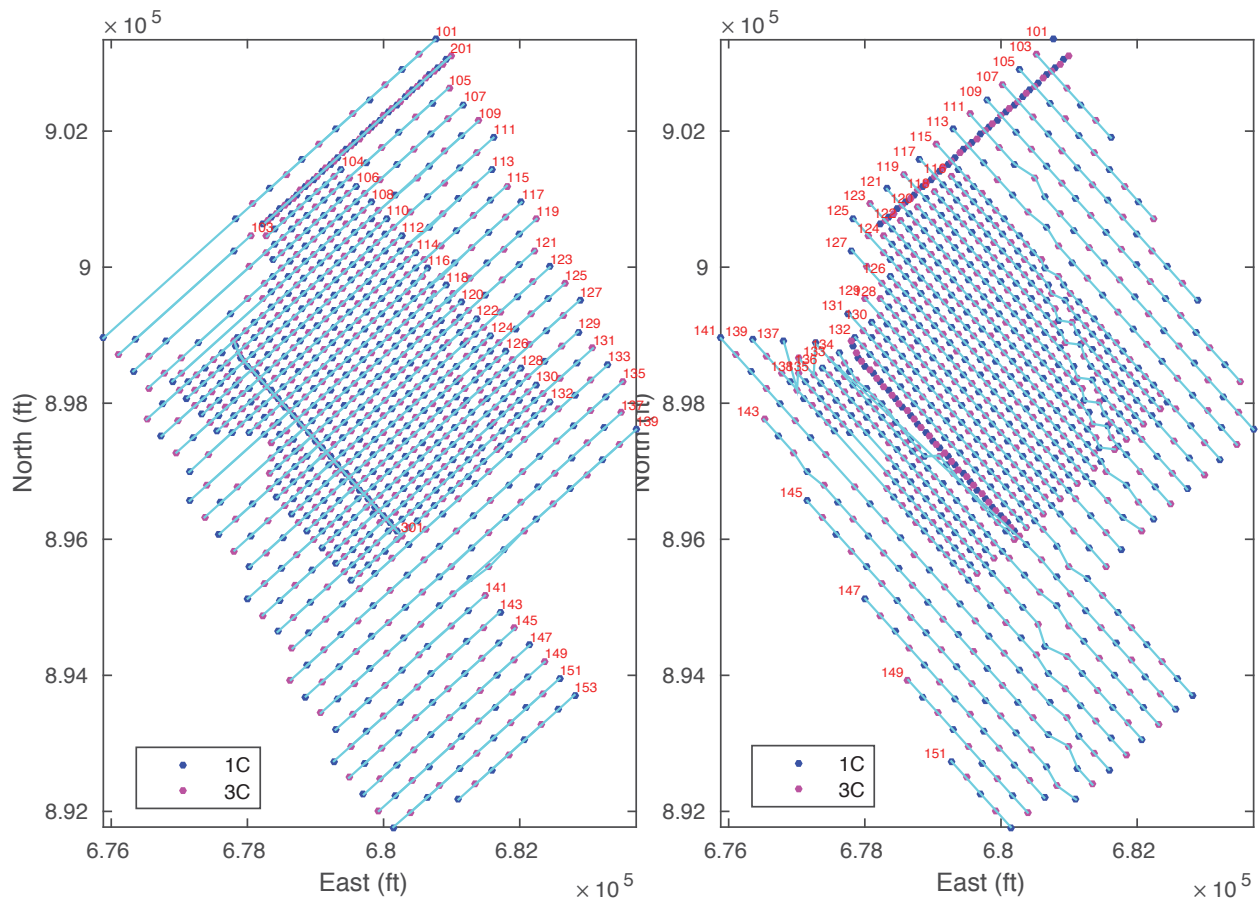


Figure 5. Maps of array showing lines numbers (left) and crossline numbers (right). 3C data lines begin with "3" and Z only stations begin with "1" (not shown).

Data analysis. Data was provided in SEGY format. The format diverged slightly from SEGY standard as INOVA has additional information in the headers. Copies of the data were provided to UNR, LLNL, LANL, and SNL.

Preliminary analysis of the SPE5 shot showed that only a few sensors clipped and that this was likely due to the digitizer clipping at 2.5 volts (Figure 6). Change in amplitude with distance appeared to be reasonable but with some scatter. Waveforms and timing appeared good (Figure 7, Figure 8) for the shot. The 3D data provides the capability to image the wavefield spatially (Figure 9) allowing precise definition of S wave propagation.

Several local, regional, and teleseismic earthquakes were recorded. The local event (Figure 10) demonstrates variation in waveforms for stations located 50 meters apart. Location and origin time for the local events were taken from the University of Reno catalog. The teleseismic events required lowpass filtering to increase the signal to noise but are clearly visible (Figure 11). The waveforms recorded in Yucca Flat show much more complexity than the station located on granite suggesting that multiples exist within the basin.

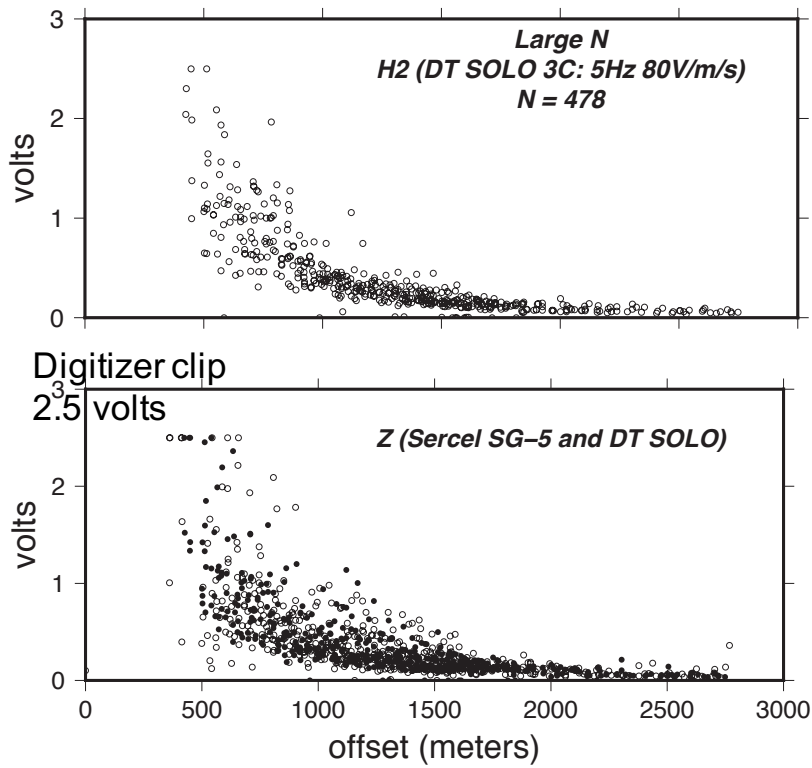


Figure 6. (top) Maximum amplitude for data recorded by horizontal geophones plotted versus distance. (bottom) Maximum amplitude for Z component geophones versus distance. A few clipped at the digitizer.

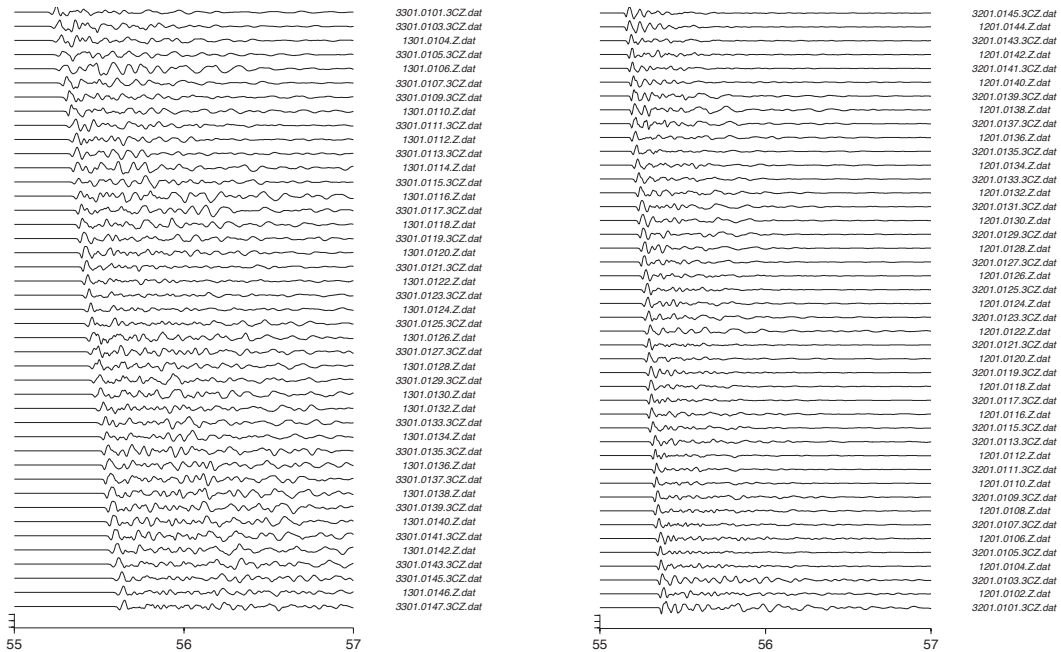


Figure 7. Example waveforms (Z) recorded for a roughly north/south line (left) and east-west (right). The east-west line lies in granite while the north-south is in alluvium.

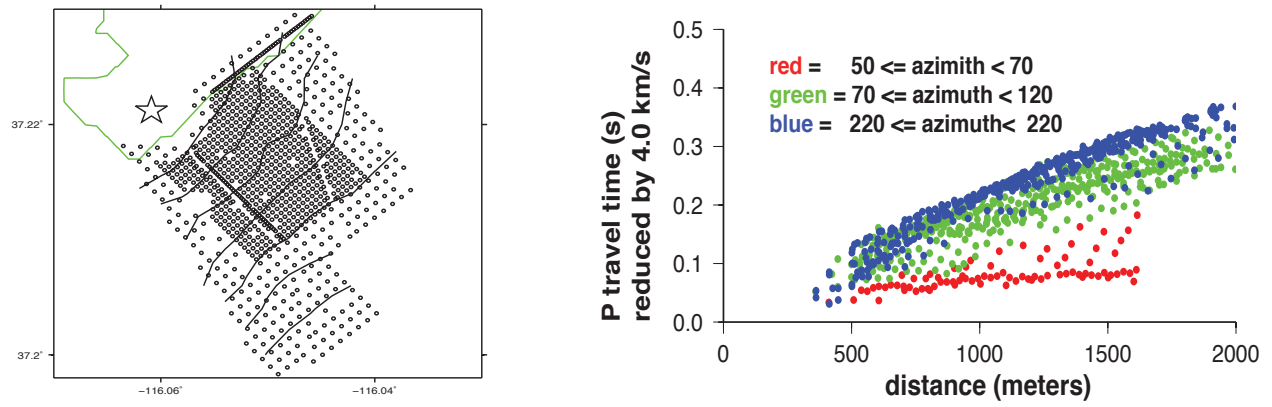


Figure 8. (left) Outline of Large N array and first-arrival travel times for the P wave. (right) Reduces travel time of SPE5 shot by azimuth from GZ.

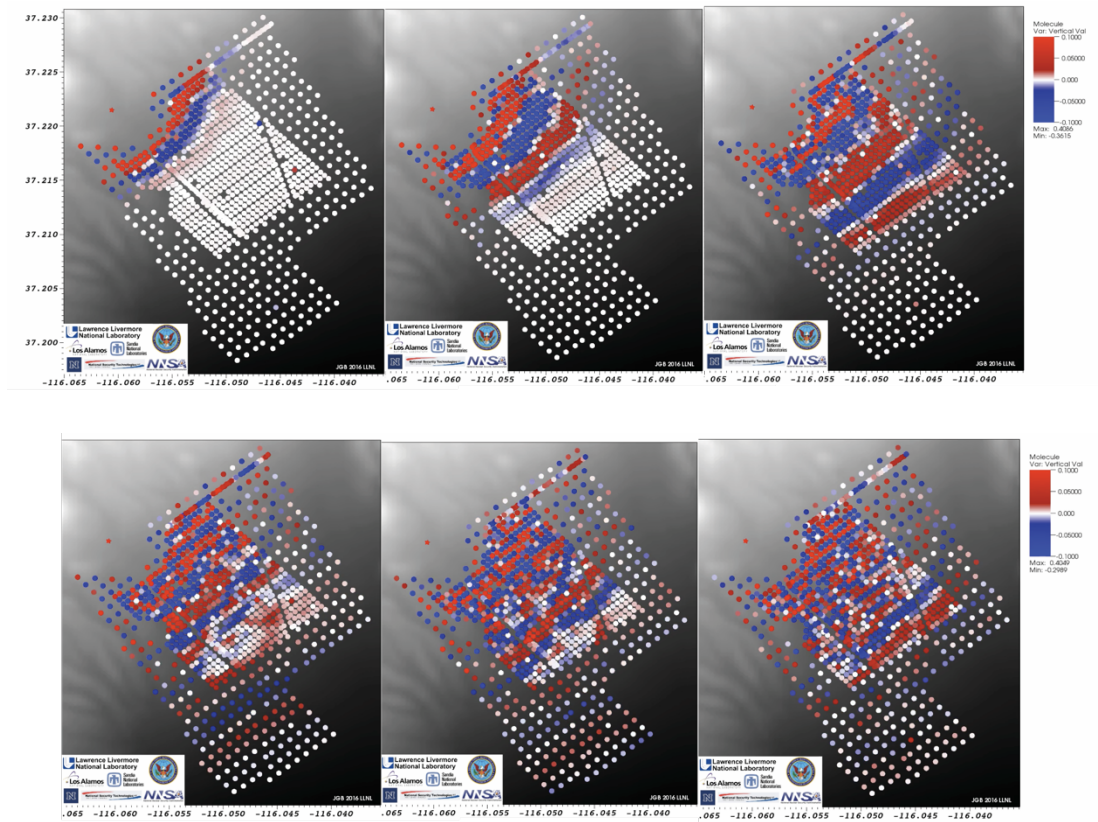


Figure 9. Map view images of the wave front showing evolution of the wave front.

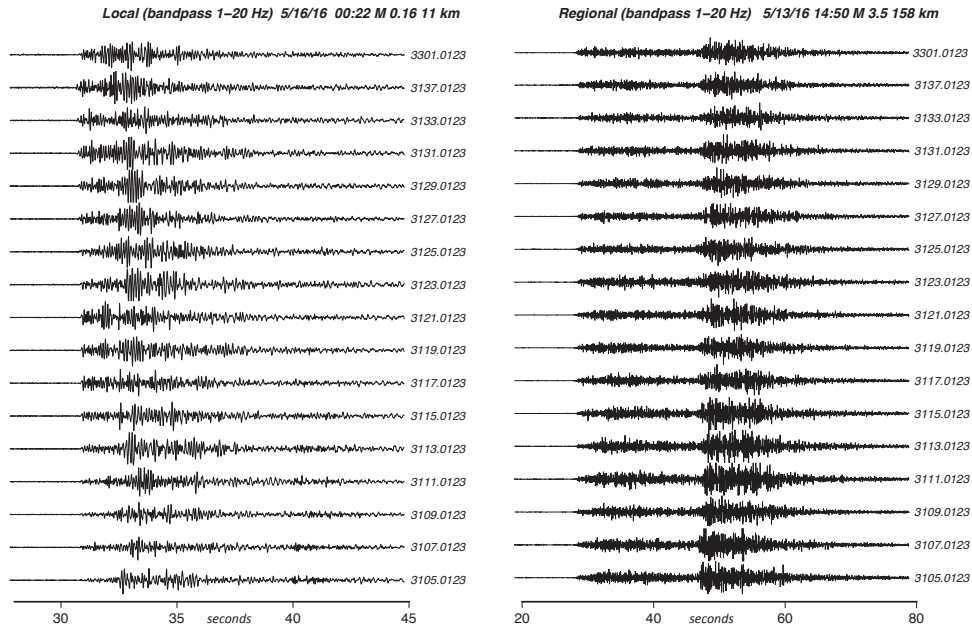


Figure 10. Examples of local and regional earthquakes measured across the array.

13 May 2016 12:57:27.28 depth 505.1 Mw 5.7 (Fiji)
Lowpass 1 Hz

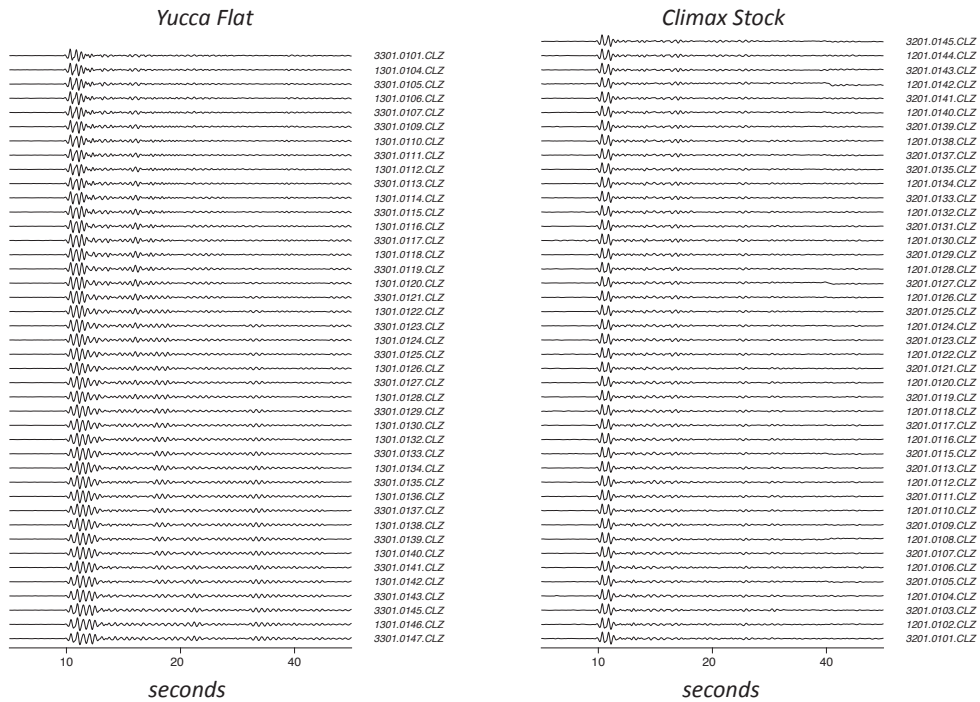


Figure 11. Filtered (1 Hz lowpass) teleseismic signal. Left is in Yucca Flat and right is from Climax Stock

Weight drop survey. Following the SPE5 shot, all disk were removed from the field for data download and then replaced. This was mostly completed by May 5, with some QC contining until

the active survey. Sensors remained in place. The active source began May 9 and consisted of a movable 13,000 kg weight drop ('seismic hammer') with 53 source locations in and around the array on roads. Each source site consisted of 8 repeats on average. Waveforms from each repeat were very similar but not exactly identical, which is likely due to the weight drop compressing the soil at each point. Each signature also includes a precursor caused by the upward movement of the weight drop rack after the weight was released but prior to impact.

Hammer waveforms also appeared clearly, with some clipping for nearby stations. Timing for the weight drop was measured several ways: 1) accelerometer on the weight drop 2) nearby geophones connected to portable dataloggers (Refteks), and 3) proximal geophones. The proximal geophones appeared to provide the most consistent trigger time (Figure 12). The weight drop was clearly observed across the array (Figure 13), and, as with the shot data, images of each wavefield could be constructed (Figure 14). Substantial variation in waveform with azimuth were observed which appeared to correlate with geology (Figure 15).

Delivered data format.

The data was provided in four ways:

- 1) Two minute sections were extracted based on the SPE shot time and provided as one SEG Y files.
- 2) Two minute sections for each hammer strike provided as one SEG Y file. The original SEG Y extraction was based on timing provided by nearby sensors connected to Refteks but this proved to be of poor quality. An improved set of extracted shot files were based on proximal geophones and re-extracted afterwards, with 1 second pre-shot data and 15 seconds post-shot data.
- 3) Continuous data by sensor, where one SEG Y file contains all the data from one sensor. This spans the period from roughly April 18 to April 28 (low gain) and from April 29 to May 23 (high gain) and includes periods with incomplete deployments.
- 4) Continuous data by time, where one SEG Y file contains data from all sensors for one two-minute segment of time and covers only period with near full array deployment. This spans the period from roughly April 21 to April 28 (low gain) and from May 5 to May 20 (high gain).

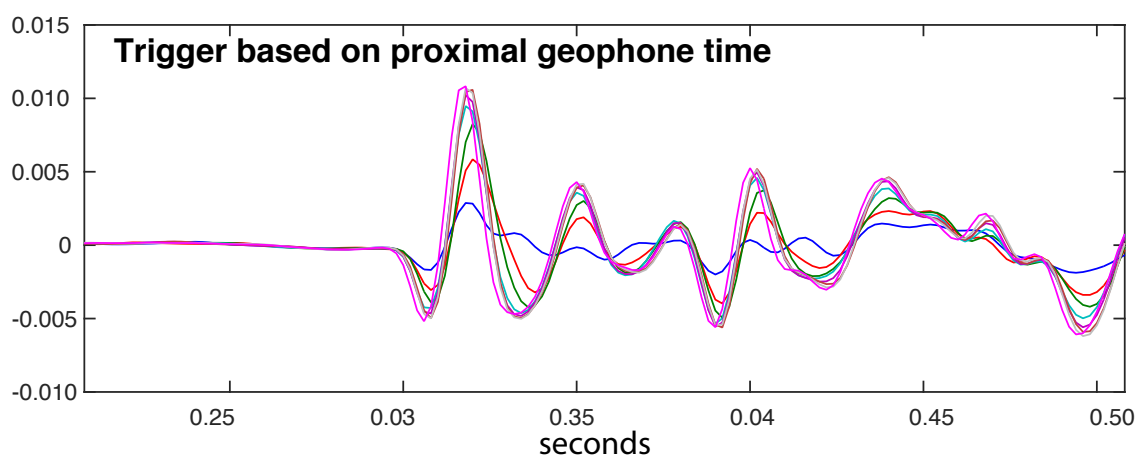
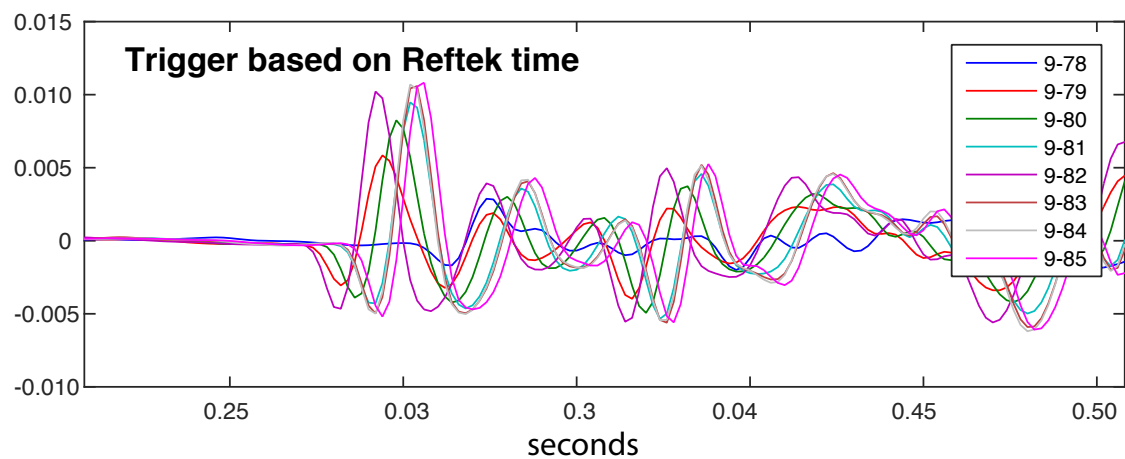


Figure 12. Example of different hammer strikes with timing based on Reftek (top) and proximal geophone (bottom). The original data was based on the Reftek time but was later recut based on the proximal geophone.

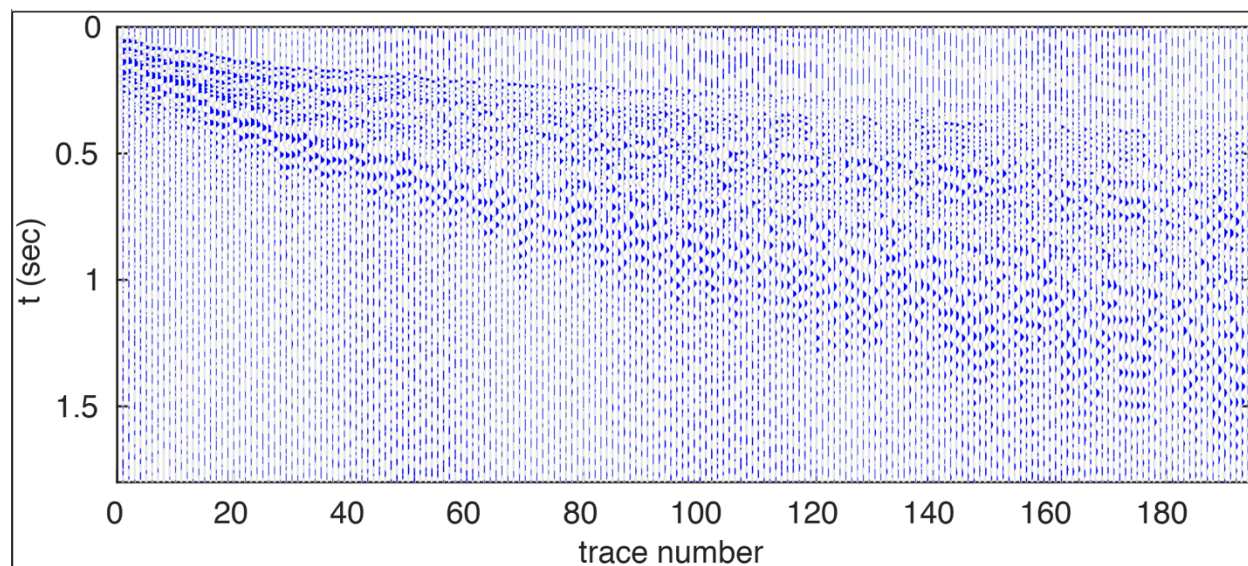


Figure 13. Example shot gather from weight drop survey.

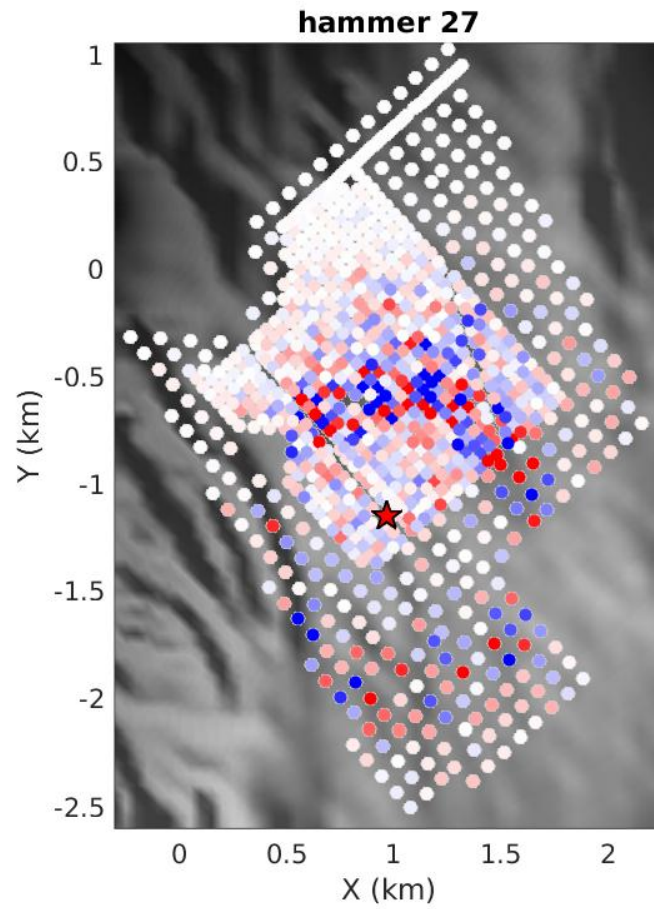


Figure 14. Map view image of wavefront from a single weight drop recorded across the array.

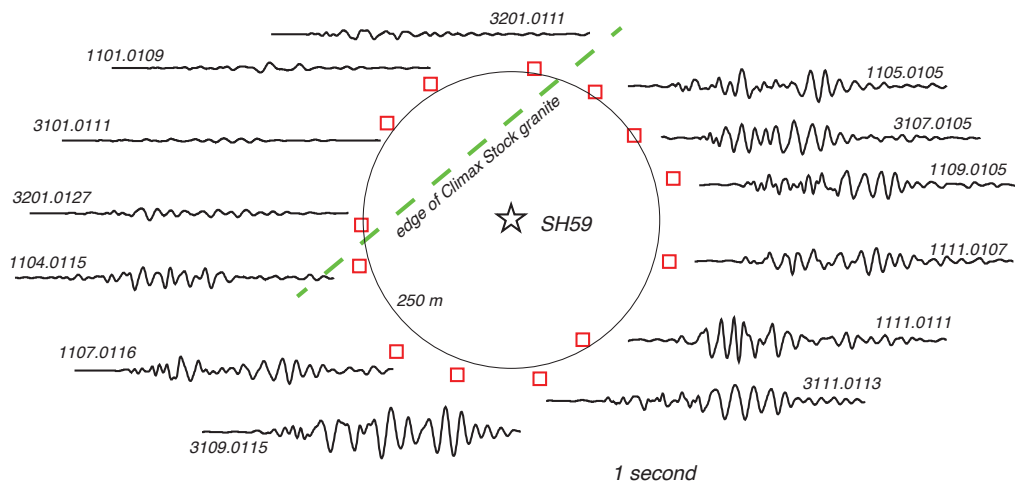


Figure 15. Example of signals generated by the large weight drop near the boundary with the Climax Stock.

Acknowledgements. Many people contributed to this project and we greatly appreciate their efforts. Here we list a few: W. Walter, S. Ford, S. Myers, S. Pullammanappallil, D. Naphan, R. Bayani, D. Huff, A. Pitarka, J. Bonner, F. Spenia, A. Isaacs, R. White, B. Dzenitis, and L. Berzins. Prepared by LLNL under Contract DE-AC52-07NA27344. Prepared by LLNL under Contract DE-AC52-07NA27344.

Appendix A. Re-measured 3C geophones

Line	Inline	Azi.	Line	Inline	Azi.	Line	Inline	Azi.	Line	Inline	Azi.	Line	Inline	Azi.
3301	101	340	3137	115	356	3127	135	348	3119	129	330	3111	127	0
3301	103	358	3137	111	0	3127	137	350	3119	131	352	3111	129	40
3301	105	0	3135	109	0	3127	139	346	3119	135	0	3111	131	4
3301	107	356	3135	113	346	3127	141	358	3119	137	40	3111	135	0
3301	109	358	3135	117	358	3127	145	0	3118	116	0	3111	137	350
3301	111	0	3135	121	0	3126	116	350	3118	118	0	3111	139	348
3301	113	338	3135	125	0	3126	118	0	3118	120	358	3111	141	358
3301	115	358	3135	129	0	3126	120	344	3118	122	358	3110	116	20
3301	117	330	3135	133	0	3126	122	358	3118	124	0	3110	118	356
3301	119	2	3135	137	356	3126	124	0	3118	126	0	3110	120	12
3301	121	320	3135	141	350	3126	126	0	3118	128	352	3110	122	350
3301	123	0	3135	145	358	3126	128	354	3118	130	0	3110	124	356
3301	125	350	3135	149	0	3126	130	0	3118	132	0	3110	126	0
3301	127	0	3133	147	346	3126	132	358	3118	134	340	3110	128	0
3301	129	4	3133	143	356	3126	136	340	3118	136	0	3110	130	0
3301	131	0	3133	139	0	3126	138	348	3117	143	0	3110	132	358
3301	133	330	3133	135	0	3125	143	0	3117	135	0	3110	134	352
3301	135	0	3133	131	358	3125	139	0	3117	131	324	3110	136	356
3301	137	358	3133	127	0	3125	137	6	3117	129	326	3110	138	356
3301	139	352	3133	123	342	3125	135	334	3117	127	296	3109	143	0
3301	141	0	3133	119	6	3125	131	352	3117	125	340	3109	137	350
3301	143	0	3133	115	348	3125	129	348	3117	123	340	3109	135	352
3301	145	356	3132	138	358	3125	127	346	3117	121	320	3109	133	356
3301	147	0	3132	136	0	3125	125	0	3117	119	346	3109	131	0
3201	101	0	3132	134	0	3125	123	332	3117	117	352	3109	129	358
3201	103	358	3132	132	320	3125	121	10	3117	115	342	3109	127	0
3201	105	358	3132	130	348	3125	119	328	3117	111	346	3109	125	2
3201	107	0	3132	128	0	3125	117	356	3117	107	332	3109	123	0
3201	109	358	3132	126	2	3125	115	350	3116	136	0	3109	121	4
3201	111	356	3132	124	14	3125	111	346	3116	134	332	3109	119	2
3201	113	0	3132	122	8	3125	107	4	3116	132	0	3109	117	358
3201	115	0	3132	120	320	3124	138	0	3116	130	2	3109	115	2
3201	117	356	3132	118	290	3124	136	348	3116	128	0	3109	111	330
3201	119	356	3132	116	272	3124	134	0	3116	126	0	3109	107	340
3201	121	0	3131	113	348	3124	132	0	3116	124	0	3109	103	350
3201	123	0	3131	115	350	3124	130	356	3116	122	0	3108	128	0
3201	125	358	3131	117	342	3124	128	0	3116	120	0	3108	126	358
3201	127	352	3131	121	358	3124	126	350	3116	118	0	3108	124	354
3201	129	0	3131	123	0	3124	124	350	3116	116	350	3108	122	358
3201	131	356	3131	125	358	3124	122	16	3115	105	342	3108	120	356
3201	133	356	3131	127	332	3124	120	0	3115	109	322	3108	118	358
3201	135	0	3131	129	334	3124	118	0	3115	113	340	3108	116	0
3201	137	356	3131	131	0	3124	116	350	3115	115	344	3107	105	0
3201	139	356	3131	135	332	3123	109	0	3115	117	342	3107	109	12
3201	141	358	3131	137	12	3123	113	0	3115	119	358	3107	113	352
3201	143	348	3131	139	348	3123	115	40	3115	121	348	3107	115	0
3201	123	0	3131	141	352	3123	117	250	3115	123	338	3107	117	0
3153	143	16	3131	145	2	3123	119	342	3115	125	348	3107	119	10
3153	139	30	3130	116	340	3123	121	352	3115	127	346	3107	121	18
3153	135	24	3130	118	356	3123	123	0	3115	129	338	3107	123	356
3151	133	22	3130	122	2	3123	125	12	3115	131	356	3107	125	0
3151	137	28	3130	124	320	3123	127	0	3115	135	352	3107	127	0
3151	141	4	3130	126	332	3123	129	340	3115	137	352	3107	129	0
3151	145	0	3130	128	20	3123	131	0	3114	116	0	3106	116	354
3151	149	0	3130	130	340	3123	135	0	3114	118	0	3106	118	348
3149	151	0	3130	132	0	3123	137	10	3114	120	12	3106	120	348
3149	147	0	3130	134	0	3123	138	358	3114	122	358	3106	122	340

3149	143	0	3130	136	352	3123	139	350	3114	124	356	3106	124	336
3149	139	350	3130	138	356	3123	141	0	3114	126	354	3105	127	348
3149	135	0	3129	147	0	3123	145	352	3114	128	354	3105	125	0
3149	131	350	3129	143	18	3121	143	338	3114	130	352	3105	123	358
3147	133	0	3129	139	356	3121	139	338	3114	132	356	3105	121	0
3147	137	350	3129	137	354	3121	137	340	3114	134	0	3105	119	0
3147	141	0	3129	135	352	3121	135	342	3114	136	354	3105	117	0
3147	145	0	3129	131	10	3121	131	320	3113	141	0	3105	115	358
3147	149	0	3129	129	8	3121	129	328	3113	139	358	3105	111	0
3145	151	350	3129	127	10	3121	127	330	3113	137	356	3105	107	300
3145	147	0	3129	125	350	3121	125	318	3113	135	354	3105	103	2
3145	143	0	3129	123	10	3121	123	10	3113	131	26	3104	124	0
3145	139	0	3129	121	0	3121	121	340	3113	129	8	3104	122	2
3145	135	5	3129	119	358	3121	119	290	3113	127	0	3104	120	0
3145	131	180	3129	117	358	3121	117	0	3113	125	6	3104	118	0
3143	133	0	3129	115	2	3121	115	318	3113	123	0	3103	125	350
3143	137	0	3129	111	352	3121	111	332	3113	121	2	3101	103	0
3143	141	0	3128	138	348	3121	107	356	3113	119	2	3101	107	356
3143	145	0	3128	136	0	3120	145	356	3113	117	2	3101	111	352
3143	149	0	3128	134	354	3120	138	2	3113	115	0	3101	115	350
3141	147	356	3128	132	352	3120	136	350	3113	111	0	3101	119	358
3141	139	0	3128	130	352	3120	134	356	3113	107	354			
3141	135	346	3128	128	2	3120	132	350	3112	138	0			
3141	131	350	3128	126	352	3120	130	0	3112	136	352			
3139	113	0	3128	124	354	3120	128	352	3112	132	354			
3139	117	0	3128	122	350	3120	126	0	3112	130	358			
3139	121	354	3128	120	0	3120	124	350	3112	128	354			
3139	125	0	3128	118	356	3120	122	0	3112	126	352			
3139	129	0	3128	116	350	3120	120	0	3112	124	354			
3139	133	0	3127	145	0	3120	118	354	3112	122	356			
3139	137	0	3127	141	358	3120	116	0	3112	120	350			
3139	141	348	3127	109	358	3119	145	354	3112	118	0			
3139	145	310	3127	113	336	3119	105	300	3112	116	356			
3139	149	0	3127	115	358	3119	109	318	3111	105	344			
3137	147	0	3127	117	356	3119	113	330	3111	109	8			
3137	143	0	3127	119	0	3119	115	340	3111	113	0			
3137	139	0	3127	121	350	3119	117	0	3111	115	334			
3137	135	0	3127	123	352	3119	119	324	3111	117	0			
3137	131	0	3127	125	348	3119	121	342	3111	119	2			
3137	127	358	3127	127	348	3119	123	306	3111	121	2			
3137	123	358	3127	129	350	3119	125	316	3111	123	0			
3137	119	4	3127	131	356	3119	127	332	3111	125	2			

Appendix B. Station coordinates formats

Metadata for the Large N array was provided in two formats: Two Excel spreadsheets from Optim that was generated by the original flagging team, and the x,y coordinates in the header.

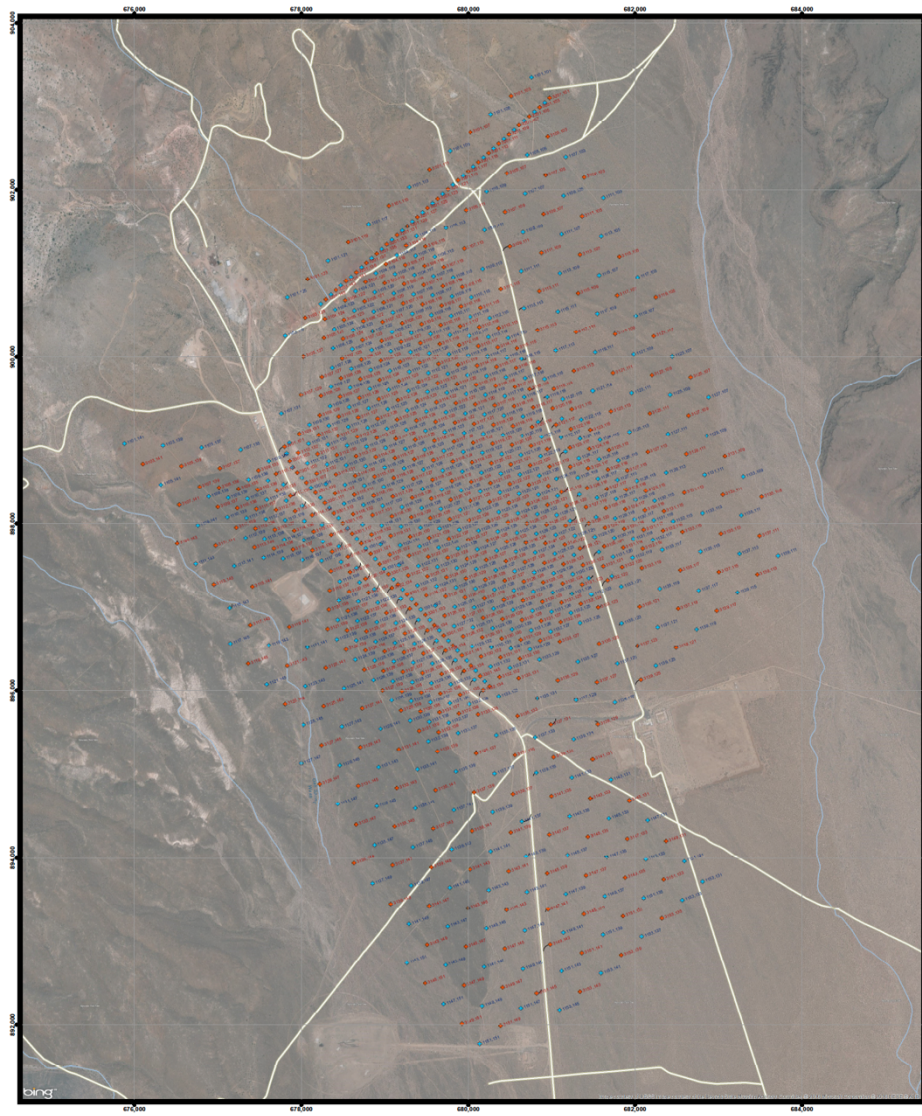


Figure 16. Map of Large N array.

The Northing and Easting in the Excel are in state plane coordinates: NAD27 / Nevada Central (feet) (zone 2702). The program “proj” can be used to convert using a command of the form:

```
cs2cs +init=epsg:32008 +to +proj=latlong +datum=NAD27 -f "%f" < in.txt > out.txt
```

or

```
echo "680762.60 903342.60" | cs2cs +init=epsg:32008 +to +proj=latlong +datum=NAD27
116d2'44.757"W 37d13'48.494"N 0.000
```

where 680762.60 is the Easting and 903342.60 is the Northing.

Compare with the coordinates for site 1101,101 from the Excel sheet

Long (DDMMSS.SS) Lat (DDMMSS.SS)

116024476W 37134849N

To convert to decimal format, use

```
echo "680762.6 903342.6" | cs2cs +init=epsg:32008 +to +proj=latlong +datum=NAD27 -f "%f"
-116.045766    37.230137
```

SEGY file header.

For site 1101 101, X: 680762.625000 y: 903342.625000

This differs slightly from the Excel sheet by 0.025 feet. It is unclear why.

```
echo "680762.625 903342.625" | cs2cs +init=epsg:32008 +to +proj=latlong -f "%f"
-116.046637    37.230090
```

Alternatively, an online converter is at:

https://www.ngs.noaa.gov/cgi-bin/spc_getgp.prl

(which matches the results above)

```
=====
      North (Feet)      East (Feet)      Datum      Zone
INPUT =  903342.60      680762.60      NAD27      2702
=====

LATITUDE      LONGITUDE      AREA
DD MM SS.sssss  DDD MM SS.sssss  ----
-----
37 13 48.49436  116  2 44.75657  2702
```

Appendix C. Weight drop locations

Coordinates in WGS84

Data source: Bob White.

Times are approximate for each shot point. Each shot point was repeated 7 times (nominal).

Experiment was conducted over two weeks, with points re-numbering beginning each week.

Pt.No.	Desc.	Date	Time (local)	Lat	Lon	Elev (m)
1	SH01	05/09/16	05:42:44 pm	37.1881778	-116.0452297	1332.41
2	SH02	05/09/16	06:44:29 pm	37.1890710	-116.0453161	1334.88
3	SH03	05/09/16	08:24:19 pm	37.1899698	-116.0453967	1337.34
4	SH04	05/09/16	09:10:26 pm	37.1908841	-116.0454959	1340.10
5	SH05	05/09/16	09:51:47 pm	37.1917590	-116.0455755	1343.15
6	SH06	05/09/16	10:32:14 pm	37.1926648	-116.0456608	1345.74
7	SH07	05/10/16	07:03:48 pm	37.1935614	-116.0457490	1349.54
8	SH08	05/10/16	08:39:38 pm	37.1944469	-116.0458472	1351.64
9	SH09	05/10/16	09:22:59 pm	37.1953556	-116.0459377	1354.68
10	SH10	05/10/16	11:17:17 pm	37.1962516	-116.0460241	1358.05
11	SH39	05/11/16	05:15:29 pm	37.2191894	-116.0577630	1493.65
12	SH38	05/11/16	06:27:31 pm	37.2183297	-116.0575017	1488.69
13	SH37	05/11/16	08:12:24 pm	37.2174900	-116.0571269	1482.73
14	SH36	05/11/16	09:09:27 pm	37.2166413	-116.0566459	1477.24
15	SH35	05/11/16	10:01:59 pm	37.2160462	-116.0558262	1469.98
16	SH34	05/11/16	10:40:45 pm	37.2154071	-116.0550283	1462.87
17	SH33	05/12/16	04:32:15 pm	37.2146410	-116.0542720	1455.32
18	SH32	05/12/16	05:39:25 pm	37.2139820	-116.0536422	1449.98
19	SH31	05/12/16	06:27:56 pm	37.2132677	-116.0529567	1444.65
20	SH30	05/12/16	07:07:03 pm	37.2125561	-116.0522729	1439.65
21	SH29	05/12/16	08:30:09 pm	37.2118428	-116.0515680	1434.89
22	SH28	05/12/16	09:04:46 pm	37.2111644	-116.0508228	1429.57
23	SH27	05/12/16	09:43:13 pm	37.2104961	-116.0500835	1424.58
24	SH26	05/12/16	10:19:36 pm	37.2098489	-116.0492797	1419.98
25	SH25	05/12/16	10:59:37 pm	37.2093092	-116.0483272	1415.21
1	SH60	05/16/16	04:17:50 pm	37.2091568	-116.0462205	1409.09
2	SH61	05/16/16	05:06:30 pm	37.2091383	-116.0451553	1406.17
3	SH62	05/16/16	05:45:42 pm	37.2091129	-116.0439722	1402.90
4	SH63	05/16/16	06:27:01 pm	37.2091409	-116.0428018	1399.39
5	SH68	05/16/16	08:07:16 pm	37.2106073	-116.0375906	1392.51
6	SH67	05/16/16	08:52:19 pm	37.2103390	-116.0386399	1393.83
7	SH66	05/16/16	09:38:22 pm	37.2100808	-116.0397181	1395.50
8	SH65	05/16/16	10:22:01 pm	37.2098023	-116.0408030	1397.69
9	SH64	05/16/16	11:02:40 pm	37.2094899	-116.0418346	1398.69
10	SH59	05/17/16	04:38:45 pm	37.2256039	-116.0484704	1500.75
11	SH57	05/17/16	05:40:33 pm	37.2240724	-116.0477381	1487.60
12	SH55	05/17/16	06:42:34 pm	37.2221826	-116.0471756	1477.83
13	SH53	05/18/16	03:53:44 pm	37.2204250	-116.0466199	1464.73

14	SH51	05/18/16	04:47:15 pm	37.2186909	-116.0460493	1454.59
15	SH49	05/18/16	05:39:54 pm	37.2169597	-116.0453314	1442.59
16	SH47	05/18/16	06:19:00 pm	37.2152624	-116.0446462	1432.20
17	SH45	05/18/16	06:58:17 pm	37.2135754	-116.0439646	1421.98
18	SH43	05/18/16	08:23:52 pm	37.2118348	-116.0432855	1411.77
19	SH23	05/18/16	09:20:34 pm	37.2077875	-116.0471401	1406.26
20	SH21	05/18/16	10:02:57 pm	37.2061201	-116.0469754	1399.86
21	SH19	05/18/16	10:33:45 pm	37.2043320	-116.0468009	1392.27
22	SH17	05/18/16	11:09:39 pm	37.2025375	-116.0466339	1384.56
23	SH15	05/19/16	03:56:20 pm	37.2007396	-116.0464638	1376.49
24	SH13	05/19/16	04:24:46 pm	37.1989431	-116.0462897	1368.73
25	SH12	05/19/16	04:53:54 pm	37.1980374	-116.0461972	1365.07
26	SH11	05/19/16	05:21:27 pm	37.1971415	-116.0461136	1361.58
27	SH71	05/19/16	07:03:01 pm	37.1829453	-116.0235215	1348.17
28	SH73	05/19/16	10:06:21 pm	37.1659139	-116.0887073	1362.81

Appendix D. Selected local and teleseismic events recorded by the Large N array

Local and regional events (UNR catalog)

date	time	lon	lat	depth	mag	dist. (km)
5/10/16	14:49:9:0	-116.1946	37.197	3.23	-0.24	12.15
5/11/16	12:51:10:0	-115.7629	36.4568	11	2.05	89.04
5/12/16	08:28:9:0	-115.9474	36.8634	7.5	0.77	41.04
5/12/16	11:39:30:0	-115.9409	37.4369	7.19	0.35	26.22
5/12/16	21:56:41:0	-116.095	37.0701	7.54	-1	17.07
5/13/16	03:29:20:0	-115.9506	37.443	0	0.39	26.52
5/13/16	06:55:54:0	-116.0725	37.1457	4.21	-1	8.46
5/13/16	14:50:39:0	-117.4754	36.3668	17.63	3.52	157.77
5/13/16	17:14:8:0	-116.1915	36.8699	4.86	0.35	40.75
5/14/16	14:20:30:0	-119.4521	40.6519	8.78	3.92	481.11
5/15/16	23:48:39:0	-115.9851	37.0379	10.64	0.71	21.46
5/16/16	00:22:42:0	-115.9833	37.1491	1.96	0.16	10.56
5/16/16	01:44:43:0	-116.2185	37.0074	6.23	0.6	27.58
5/16/16	10:40:4:0	-116.2104	37.083	5.33	-0.06	20.29
5/18/16	22:40:54:0	-116.207	37.0536	8.36	-0.67	22.7
5/18/16	23:14:44:0	-116.2175	37.0269	5.59	0.34	25.68
5/19/16	18:15:48:0	-116.171	36.9665	2.85	0.18	29.96

Teleseisms (ISC)

date	time	lon	lat	depth	mag	dist. (deg)
5/10/16	05:56:34:409	148.466	43.8576	10	5.9	68.63
5/11/16	13:11:30:100	-71.6043	-30.6945	10	5.4	79.63
5/12/16	06:32:31:510	146.6456	43.3192	79	6.3	70.04
5/12/16	06:32:37:500	145.69	45.7	10	5.5	69.32
5/13/16	12:57:27:280	179.2897	-25.4387	505	5.7	87.25
5/14/16	18:21:2:940	-102.8297	8.4589	10	5.7	31.16
5/15/16	05:51:1:129	-151.09	63.2224	138	5.5	33.51

5/15/16	12:04:52:399	-167.9917	52.6225	10	5.6	38.85
5/16/16	00:41:50:770	173.0397	-22.5222	10	5.9	89.48
5/16/16	12:23:1:840	139.8018	35.941	49	5.6	78.6
5/18/16	07:57:4:900	-79.84	0.45	10	6.7	49.67
5/18/16	14:49:4:89	-66.9763	-24.328	156	5.5	76.94
5/18/16	16:46:40:600	-79.67	0.43	10	6.8	49.79

Attachment 3

Schalk, Walter, 2018. Written Communication prepared by the NNSS Weather Forecast Air Resources Laboratory/Special Operations and Research Division. *SPE-5 Weather Data Collection*. Mercury, NV.

SPE-5 Weather Data Collection

BACKGROUND

The surface weather data collected for the SPE-5 experiment were from one station in the SORD/NNSS Weather Mesonet. The Mesonet consists of 22 stations located all across the NNSS. The data provided are from station M48/A10AA and is located approximately 4 km south-southeast of the SPE-5 shot site. The SORD weather stations are sited, installed, operated, and maintained according to the ANSI/ANS-3.11 (2015) Voluntary Consensus Standard, "Determining Meteorological Information at Nuclear Facilities".

SURFACE DATA COLLECTION METHODOLOGY

The tables below summarize the collection methodology for the surface data collected. Table 1 defines how the wind observations are taken for the 3-second averaged data at the SORD/NNSS Mesonet 10 meter towers. Table 2 defines how all of the observations from a standard NNSS Mesonet Weather tower are taken for the 15-minute averaged data at the SORD/NNSS Mesonet 10 meter towers.

Table 1: Weather Sensor Collection Methodology for Routine 3-second Averaged Data, 10 meter tower

Parameter	Sensor	Location	Sample Rate	Data Processing	Units
3 second Wind Speed	R.M. Young 3D Sonic Anemometer, 81000RE	At 10 meters, top of tower	4 times per second	Averaged over 3 seconds	Meters/second
3 second Wind Direction	R.M. Young 3D Sonic Anemometer, 81000RE	At 10 meters, top of tower	4 times per second	Averaged over 3 seconds	Compass Degrees
3 second Sigma Theta	R.M. Young 3D Sonic Anemometer, 81000RE	At 10 meters, top of tower	4 times per second	Averaged over 3 seconds	Compass Degrees
DataLogger	Campbell Scientific CR1000 Data Logger	In All-Weather Box at 1.5 meters	N/A	Collects and stores all data and transmits to Main PC	N/A

Table 2: Weather Sensor Collection Methodology for Routine 15-minute Averaged Data, 10 meter tower

Parameter	Sensor	Location	Sample Rate	Data Processing	Units
15 minute Wind Speed	R.M. Young 3D Sonic Anemometer, 81000RE	At 10 meters, top of tower	4 times per second	Averaged over 15 minutes	Meters/ second
15 minute Wind Direction	R.M. Young 3D Sonic Anemometer, 81000RE	At 10 meters, top of tower	4 times per second	Averaged over 15 minutes	Compass Degrees
15 minute Wind Sigma Theta	R.M. Young 3D Sonic Anemometer, 81000RE	At 10 meters, top of tower	4 times per second	Averaged over 15 minutes	Compass Degrees

Table 2 continued: Weather Sensor Collection Methodology for Routine 15-minute Averaged Data, 10 m

Parameter	Sensor	Location	Sample Rate	Data Processing	Units
15 minute Wind Speed Maximum -Gust	R.M. Young 3D Sonic Anemometer, 81000RE	10 meters, top of tower	4 times per second	Maximum running 3- second average over the 15 minute period	Meters/ second
15 minute Wind Speed Minimum -Lull	R.M. Young 3D Sonic Anemometer, 81000RE	10 meters, top of tower	4 times per second	Minimum running 3- second average over the 15 minute period	Meters/ second
15 minute Temperature- Upper	Vaisala HMP155A	8.5 meters, near top of tower	4 times per minute	Averaged over 15 minutes	Degrees Celsius
15 minute Relative Humidity-Upper	Vaisala HMP155A	8.5 meters, near top of tower	4 times per minute	Averaged over 15 minutes	% (percent)
15 minute Temperature- Lower	Vaisala HMP155A	2 meters, near bottom of tower	4 times per minute	Averaged over 15 minutes	Degrees Celsius
15 minute Relative Humidity-Lower	Vaisala HMP155A	2 meters, near bottom of tower	4 times per minute	Averaged over 15 minutes	% (percent)
15 minute Atmospheric Pressure	Vaisala Barometer PTB110-BCA	2 meters, near bottom of tower	4 times per minute	Averaged over 15 minutes	hecto- Pascals
15 minute Solar Radiation	Hukseflux Pyranometer LP02	2 meters, near bottom of tower	4 times per minute	Averaged over 15 minutes	W/m ²
15 minute Total Solar Radiation	Hukseflux Pyranometer LP02	2 meters, near bottom of tower	4 times per minute	Totaled over 15 minutes	kJ/m ²
15 minute Total Precipitation	Hydrological Services Tipping Bucket Rain Gauge TB3/P	Near Ground, opening about 1 meter AGL	Records "bucket" (0.01") tips as occurs	Totaled over 15 minutes	inches
15 minute Battery Voltage	Campbell Scientific CR1000 Data Logger	In All-Weather Box at 1.5 meters	4 times per minute	Averaged over 15 minutes	Volts DC
15 minute Dew Point Temperature	N/A	2 meters, near bottom of tower	4 times per minute	Calculated from lower Temperature and Relative Humidity	Degrees Celsius
15 minute Delta Temperature with Height	N/A	Difference between 8.5m and 2m temperature	4 times per minute	Calculated from upper and lower Temperature	Degrees Celsius / meter
DataLogger	Campbell Scientific CR1000 Data Logger	In All-Weather Box at 1.5 meters	N/A	Collects and stores all data and transmits to Main PC	N/A

RADIOSONDE (BALLOON) DATA COLLECTION METHODOLOGY

The table below summarizes the collection methodology for the upper air data (radiosonde/balloon) collected. Table 3 defines how the observations are taken. Measurements are taken by the radiosonde every 1 second and reported every 2 seconds.

Table 3: Radiosonde (Weather Balloon) Data Collection Methodology

Parameter	Sensor	Sample Rate	Data Processing	Units
Wind Speed	Vaisala Radiosonde, RS-90AG GPS	Once per second	Computed by the change in GPS position. Reported every 2 seconds	Meters/second
Wind Direction	Vaisala Radiosonde, RS-90AG GPS	Once per second	Computed by the change in GPS position. Reported every 2 seconds	Compass Degrees
u (East-West, x, component of the wind)	Vaisala Radiosonde, RS-90AG GPS	Once per second	Computed by the change in GPS position. Reported every 2 seconds	Meters/second
v (North-South, y, component of the wind)	Vaisala Radiosonde, RS-90AG GPS	Once per second	Computed by the change in GPS position. Reported every 2 seconds	Meters/second
Temperature	Vaisala Radiosonde, RS-90AG Capacitive Thin Wire	Once per second	Reported every 2 seconds	Degrees Celsius
Relative Humidity	Vaisala Radiosonde, RS-90AG Thin-Film Capacitor	Once per second	Reported every 2 seconds	% (percent)
Specific Humidity	Calculated from Temperature and Relative Humidity	Once per second	Reported every 2 seconds	g/kg
Dew Point Temperature	Calculated from Temperature and Relative Humidity	Once per second	Reported every 2 seconds	Degrees Celsius
Pressure	Vaisala Radiosonde, RS-90AG Silicon Capacitor	Once per second	Reported every 2 seconds	hectoPascals
Location	Vaisala Radiosonde, RS-90AG GPS	Once per second	Reported every 2 seconds	Latitude / Longitude

No challenges were encountered, data were collected as planned, and the results were as expected.

Please refer any questions and comments to Walt Schalk, Director, NOAA ARL/SORD at 702-295-1231, schalk@nv.doe.gov, walter.w.schalk@noaa.gov.



Attachment 4

Schalk, Walter, 2018. Written Communication prepared by the NNSS Weather Forecast Air Resources Laboratory/Special Operations and Research Division. *SPE-6 Weather Data Collection*. Mercury, NV.

SPE-6 Weather Data Collection

BACKGROUND

The surface weather data collected for the SPE-6 experiment were from one station in the SORD/NNSS Weather Mesonet. The Mesonet consists of 22 stations located all across the NNSS. The data provided are from station M48/A10AA and is located approximately 4 km south-southeast of the SPE-6 shot site. The SORD weather stations are sited, installed, operated, and maintained according to the ANSI/ANS-3.11 (2015) Voluntary Consensus Standard, "Determining Meteorological Information at Nuclear Facilities". The portable 2.5 meter station was located about 300 meters to the southeast of the experiment site.

SURFACE DATA COLLECTION METHODOLOGY

The tables below summarize the collection methodology for the surface data collected. Table 1 defines how the wind observations are taken for the 3-second averaged data at the SORD/NNSS Mesonet 10 meter towers. Table 2 defines how all of the observations from a standard NNSS Mesonet Weather tower are taken for the 15-minute averaged data at the SORD/NNSS Mesonet 10 meter towers. Table 3 defines how the observations are taken for the 2-second data at a SORD/NNSS Micronet 2.5 meter portable tower.

Table 1: Weather Sensor Collection Methodology for Routine 3-second Averaged Data, 10 meter tower

Parameter	Sensor	Location	Sample Rate	Data Processing	Units
3 second Wind Speed	R.M. Young 3D Sonic Anemometer, 81000RE	At 10 meters, top of tower	4 times per second	Averaged over 3 seconds	Meters/second
3 second Wind Direction	R.M. Young 3D Sonic Anemometer, 81000RE	At 10 meters, top of tower	4 times per second	Averaged over 3 seconds	Compass Degrees
3 second Sigma Theta	R.M. Young 3D Sonic Anemometer, 81000RE	At 10 meters, top of tower	4 times per second	Averaged over 3 seconds	Compass Degrees
DataLogger	Campbell Scientific CR1000 Data Logger	In All-Weather Box at 1.5 meters	N/A	Collects and stores all data and transmits to Main PC	N/A

Table 2: Weather Sensor Collection Methodology for Routine 15-minute Averaged Data, 10 meter tower

Parameter	Sensor	Location	Sample Rate	Data Processing	Units
15 minute Wind Speed	R.M. Young 3D Sonic Anemometer, 81000RE	At 10 meters, top of tower	4 times per second	Averaged over 15 minutes	Meters/second
15 minute Wind Direction	R.M. Young 3D Sonic Anemometer, 81000RE	At 10 meters, top of tower	4 times per second	Averaged over 15 minutes	Compass Degrees
15 minute Wind Sigma Theta	R.M. Young 3D Sonic Anemometer, 81000RE	At 10 meters, top of tower	4 times per second	Averaged over 15 minutes	Compass Degrees



Table 2 continued: Weather Sensor Collection Methodology for Routine 15-minute Averaged Data, 10 m

Parameter	Sensor	Location	Sample Rate	Data Processing	Units
15 minute Wind Speed Maximum -Gust	R.M. Young 3D Sonic Anemometer, 81000RE	10 meters, top of tower	4 times per second	Maximum running 3- second average over the 15 minute period	Meters/ second
15 minute Wind Speed Minimum -Lull	R.M. Young 3D Sonic Anemometer, 81000RE	10 meters, top of tower	4 times per second	Minimum running 3- second average over the 15 minute period	Meters/ second
15 minute Temperature- Upper	Vaisala HMP155A	8.5 meters, near top of tower	4 times per minute	Averaged over 15 minutes	Degrees Celsius
15 minute Relative Humidity-Upper	Vaisala HMP155A	8.5 meters, near top of tower	4 times per minute	Averaged over 15 minutes	% (percent)
15 minute Temperature- Lower	Vaisala HMP155A	2 meters, near bottom of tower	4 times per minute	Averaged over 15 minutes	Degrees Celsius
15 minute Relative Humidity-Lower	Vaisala HMP155A	2 meters, near bottom of tower	4 times per minute	Averaged over 15 minutes	% (percent)
15 minute Atmospheric Pressure	Vaisala Barometer PTB110-BCA	2 meters, near bottom of tower	4 times per minute	Averaged over 15 minutes	hecto- Pascals
15 minute Solar Radiation	Hukseflux Pyranometer LP02	2 meters, near bottom of tower	4 times per minute	Averaged over 15 minutes	W/m ²
15 minute Total Solar Radiation	Hukseflux Pyranometer LP02	2 meters, near bottom of tower	4 times per minute	Totaled over 15 minutes	kJ/m ²
15 minute Total Precipitation	Hydrological Services Tipping Bucket Rain Gauge TB3/P	Near Ground, opening about 1 meter AGL	Records "bucket" (0.01") tips as occurs	Totaled over 15 minutes	inches
15 minute Battery Voltage	Campbell Scientific CR1000 Data Logger	In All-Weather Box at 1.5 meters	4 times per minute	Averaged over 15 minutes	Volts DC
15 minute Dew Point Temperature	N/A	2 meters, near bottom of tower	4 times per minute	Calculated from lower Temperature and Relative Humidity	Degrees Celsius
15 minute Delta Temperature with Height	N/A	Difference between 8.5m and 2m temperature	4 times per minute	Calculated from upper and lower Temperature	Degrees Celsius / meter
DataLogger	Campbell Scientific CR1000 Data Logger	In All-Weather Box at 1.5 meters	N/A	Collects and stores all data and transmits to Main PC	N/A

Table 3: Weather Sensor Collection Methodology for 2-second Data, 2.5 meter portable tower

Parameter	Sensor	Location	Sample Rate	Data Processing	Units
Battery Voltage	Campbell Scientific CR1000 Data Logger	In All-Weather Box at 1.5 meters	Once per second	Reported every 2 seconds	Volts DC
Minimum Battery Voltage	Campbell Scientific CR1000 Data Logger	In All-Weather Box at 1.5 meters	Once per second	Reported every 2 seconds	Volts DC
Panel Temperature (Data Logger)	Campbell Scientific CR1000 Data Logger	In All-Weather Box at 1.5 meters	Once per second	Reported every 2 seconds	Degrees Celsius
Wind Direction	Vaisala WXT520 Sonic Anemometer	At 2.5 meters, top of tripod	Once per second	Reported every 2 seconds	Meters / second
Wind Speed	Vaisala WXT520 Sonic Anemometer	At 2.5 meters, top of tripod	Once per second	Reported every 2 seconds	Meters / second
Temperature	Vaisala WXT520 Capacitive Ceramic THERMOCAP	At 2.5 meters, top of tripod	Once per second	Reported every 2 seconds	Degrees Celsius
Relative Humidity	Vaisala WXT520 Capacitive thin film polymer HUMICAP	At 2.5 meters, top of tripod	Once per second	Reported every 2 seconds	% (percent)
Pressure	Vaisala WXT520 Capacitive Silicone BAROCAP	At 2.5 meters, top of tripod	Once per second	Reported every 2 seconds	hectoPascals
Precipitation	Vaisala WXT520 Impact Sensitive piezo-electrical RAINCAP	At 2.5 meters, top of tripod	As occurs	Reported every 2 seconds	inches
DataLogger	Campbell Scientific CR1000 Data Logger	In All-Weather Box at 1.5 meters	N/A	Collects and stores all data and transmits to Main PC	N/A

RADIOSONDE (BALLOON) DATA COLLECTION METHODOLOGY

The table below summarizes the collection methodology for the upper air data (radiosonde/balloon) collected. Table 4 defines how the observations are taken. Measurements are taken by the radiosonde every 1 second and reported every 2 seconds.



Table 4: Radiosonde (Weather Balloon) Data Collection Methodology

Parameter	Sensor	Sample Rate	Data Processing	Units
Wind Speed	Vaisala Radiosonde, RS-90AG GPS	Once per second	Computed by the change in GPS position. Reported every 2 seconds	Meters/second
Wind Direction	Vaisala Radiosonde, RS-90AG GPS	Once per second	Computed by the change in GPS position. Reported every 2 seconds	Compass Degrees
u (East-West, x, component of the wind)	Vaisala Radiosonde, RS-90AG GPS	Once per second	Computed by the change in GPS position. Reported every 2 seconds	Meters/second
v (North-South, y, component of the wind)	Vaisala Radiosonde, RS-90AG GPS	Once per second	Computed by the change in GPS position. Reported every 2 seconds	Meters/second
Temperature	Vaisala Radiosonde, RS-90AG Capacitive Thin Wire	Once per second	Reported every 2 seconds	Degrees Celsius
Relative Humidity	Vaisala Radiosonde, RS-90AG Thin-Film Capacitor	Once per second	Reported every 2 seconds	% (percent)
Specific Humidity	Calculated from Temperature and Relative Humidity	Once per second	Reported every 2 seconds	g/kg
Dew Point Temperature	Calculated from Temperature and Relative Humidity	Once per second	Reported every 2 seconds	Degrees Celsius
Pressure	Vaisala Radiosonde, RS-90AG Silicon Capacitor	Once per second	Reported every 2 seconds	hectoPascals
Location	Vaisala Radiosonde, RS-90AG GPS	Once per second	Reported every 2 seconds	Latitude / Longitude

No challenges were encountered, data were collected as planned, and the results were as expected.

Please refer any questions and comments to Walt Schalk, Director, NOAA ARL/SORD at 702-295-1231, schalk@nv.doe.gov, walter.w.schalk@noaa.gov.



Attachment 5

Wharton, Sonia, 2018. *SPE6 Atmospheric Lidar Data User Guide*.
Lawrence Livermore National Laboratory Report LLNL-TR-
764520.

SPE6 Atmospheric Lidar Data User Guide

Lawrence Livermore National Laboratory

Prepared by Sonia Wharton

15 November 2018

LLNL-TR-764520



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SPE6 atmospheric lidar data user guide

Contact: Sonia Wharton, Lawrence Livermore National Laboratory, wharton4@llnl.gov, 925-422-9295

About the lidar: The Wind Cube v2 is a vertically-profiling, remote sensing instrument based on pulsed Light Detection and Ranging (Lidar) technology that provides high quality wind measurements on par with an IEC calibrated meteorological mast. The instrument uses four radial laser beams (0, 90, 180, 270° in the azimuth, scan angle 28° from zenith) and one vertically (V) orientated beam to measure flow characteristics from 40 m up to 290 m above ground level at 12 user-programmable heights (Figure 1). Lidar creates a “virtual” meteorological tower whereby the characteristics of the wind in the lower part of the planetary boundary layer are sampled. It takes roughly 4 seconds to complete a full conical scan, followed by the 5th beam (V) pointed in the vertical position. The underlying principle of pulsed lidar measurements of wind is the use of optical heterodyne (coherent) detection, in which laser pulses are transmitted into the atmosphere and scattered off of naturally-occurring small dust particles or aerosols entrained in the ambient flow field (Figure 2). Radial velocity is proportional to Doppler frequency shift. In simple to moderately complex terrain wind speed accuracy is 0.1 m/s, wind direction accuracy is 1.5°.

Data Output: Output include mean horizontal and vertical wind speed, direction, and standard deviation of these variables. From the mean data wind shear (change in wind speed per unit vertical distance) and veer (change in wind direction per unit vertical distance) can be calculated. Additionally, the “raw” or high-frequency u , v , and w wind components are available. From these data turbulence parameters can be calculated.

Vertical Range: The unit is capable of measuring 40-290 m above ground level. Measurements are depended on aerosol backscattering, such that higher heights can have less data availability due to fewer natural aerosols present aloft. Ambient air was relatively “clean” during SPE6 limiting data availability to a maximum of 160 m.

Sample volume length (altitude resolution): 20 m. Each measurement height is actually a volume average such that the wind speed at 60 m is the average of the wind speed between 50 and 70 m (i.e., height $z \pm 10$ m).

Conical scan time: Roughly 4 seconds, however the data are updated and outputted every ~1 second.

Lidar reference: LEOSPHERE Pulsed Lidar Principle-Contribution to UpWind WP6 on Remote Sensing Devices. Authors: Jean-Pierre Cariou and Matthieu Boquet, LEOSPHERE, Orsay, France, 32 p.

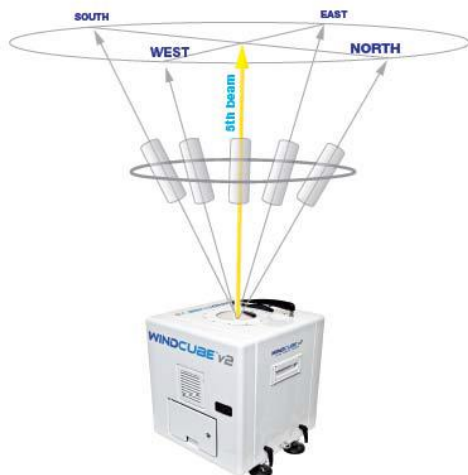


Figure 1: Schematic of the 5-beam orientation.

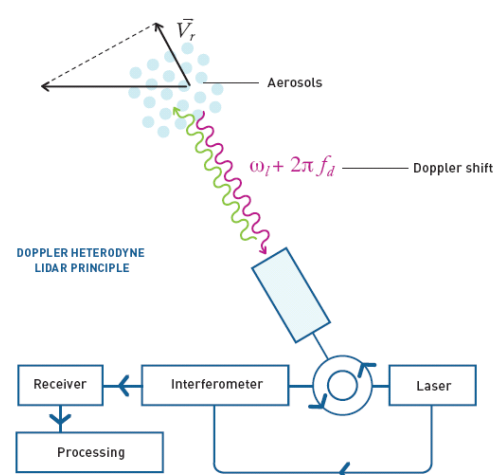


Figure 2: Schematic of the Doppler lidar principle.

SPE 6 Instrument Setup and Data: The lidar was deployed on the ground just west of the lower trailer for SPE6 operations (Figure 3). Power source was a nearby generator. During set up the lidar was leveled using the lidar's internal inclinometer to be level within ± 1 degree. The lidar was orientated to face true north, not magnetic north, however this was not done precisely. According to the lidar's internal compass the lidar faced 5.2° E from magnetic north. The true declination angle was 12.2° E, yielding a direction error of 7° from true north. This offset was corrected in the datafiles. The instrument was programmed to measure from 40-260 m, at 20 m intervals. Data with high signal to noise ratios covered the span of 40-160 m due to the natural background aerosol limitations discussed earlier. Data were averaged over 4-second and 5-minute intervals to create ".rtd" and ".sta" datasets. The nearest NOAA SORD meteorological tower was A10AA, ~ 1.5 km to the south of the lidar.

Lat/Long/Elevation: 37.1983, -116.0478, 1366 m a.s.l.

Timezone: the time is given in UTC. Note that local time was Pacific Daylight Saving Time or UTC-7.

Lidar Measurement Period: October 6-13, 2016



Figure 3: Google Earth image showing the location of the lidar (center) in relation to the SPE6 shot site to the north and NOAA SORD A10AA 10 m tall meteorological tower to the south. The lidar was approximately 2.8 km southeast of the shot and 160 m lower in elevation.



Figure 4: Photograph of the SPE6 lidar field campaign. The image was taken facing west.

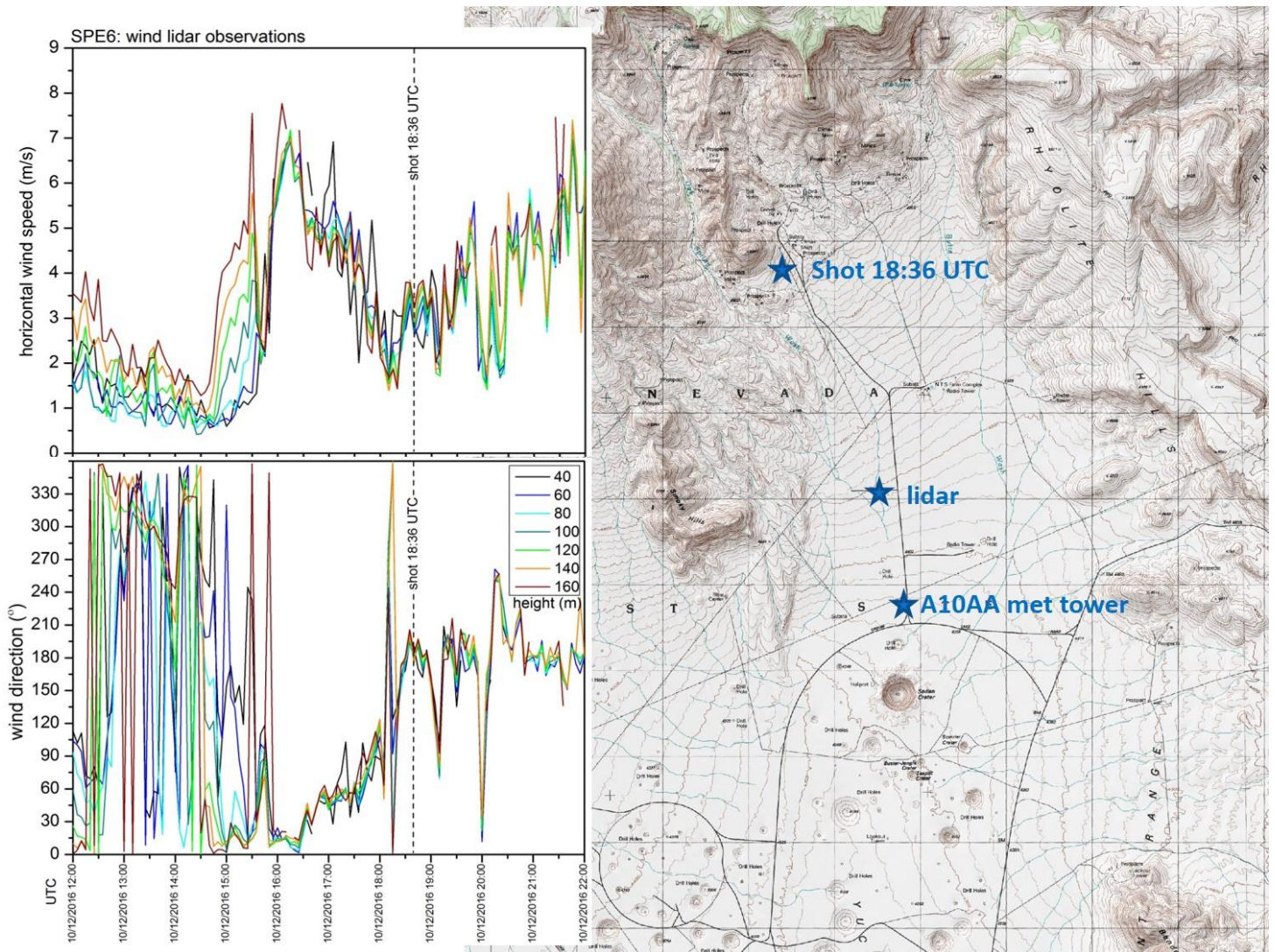


Figure 5: Time series plot of 5-minute mean wind speed (top) and direction (bottom) on shot day. Plotted are heights from 40-160 m. Relatively little wind shear was present above the lidar at the time of the shot event. Mean wind speed through the vertical profile was ~3-4 m/s at shot time. Veer was slightly higher, and winds varied from easterly-southeasterly to southerly through the air profile.

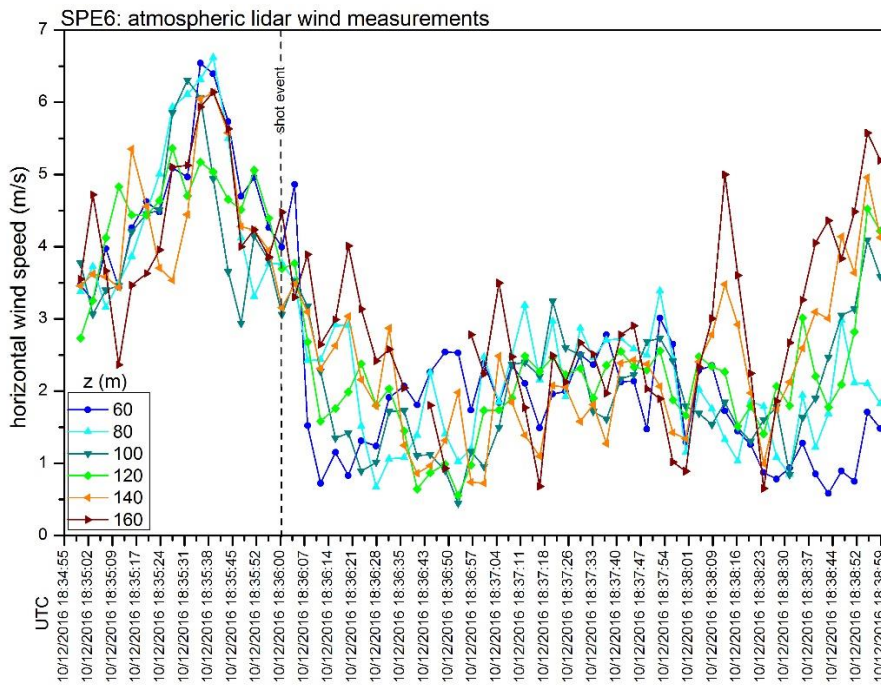


Figure 6: Time series of 4-second mean wind speed from 18:34 until 18:39 UTC on 12 October 2016. Note the large variability in wind speed right around the 18:36 UTC shot. 60 m wind speed varied from over 6 m/s to less than 1 m/s over a 30 second period (18:35:40- 18:36:10) surrounding the shot event. The wind speed at the A10AA meteorological tower (10 m height) was around 1.3 m/s at the time of the shot. A more precise shot-time wind speed at 10 m is not know as the meteorological tower collected 15-minute averaged data.

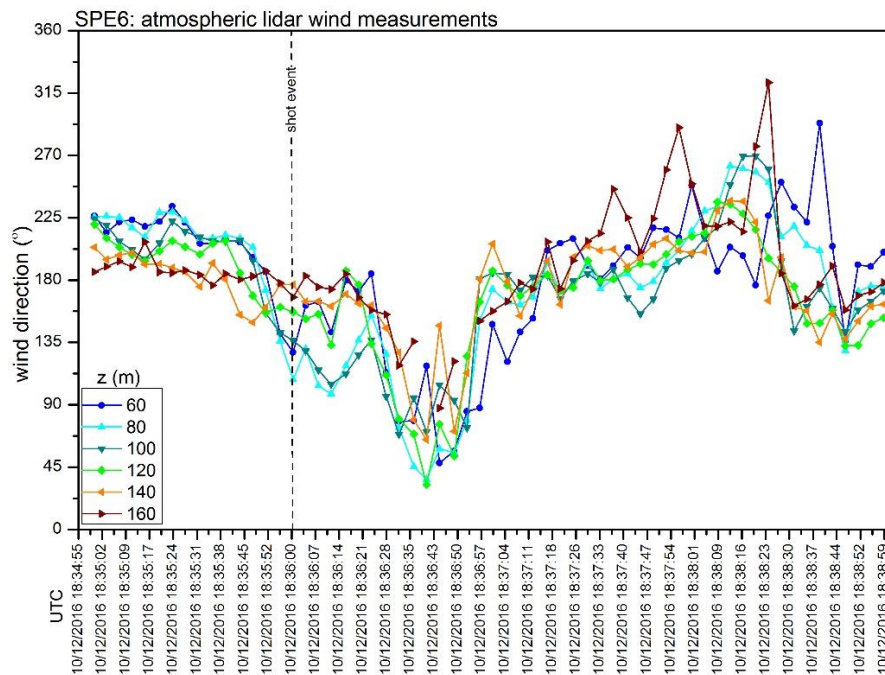


Figure 7: Time series of 4-second mean wind direction from 18:34 until 18:39 UTC on 12 October 2016. During the shot event wind direction varied from the east-southeast (at 60 m) to the south (at 160 m). Winds direction indicates the direction the wind is blowing from.

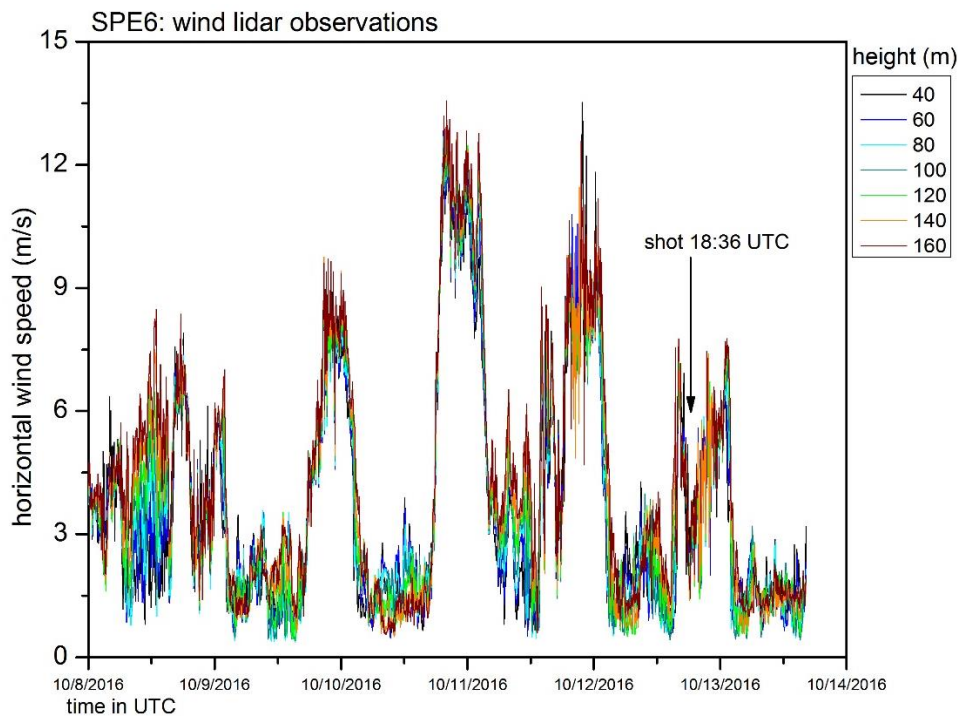


Figure 8: Time series of 5-minute mean wind speed during the week-long SPE6 lidar field campaign (8 -13 October 2016). The shot event was done during a low wind period with little wind shear. Diurnal variability in wind speed is apparent over the week; daytime winds are generally much higher than those at night at the lidar location.

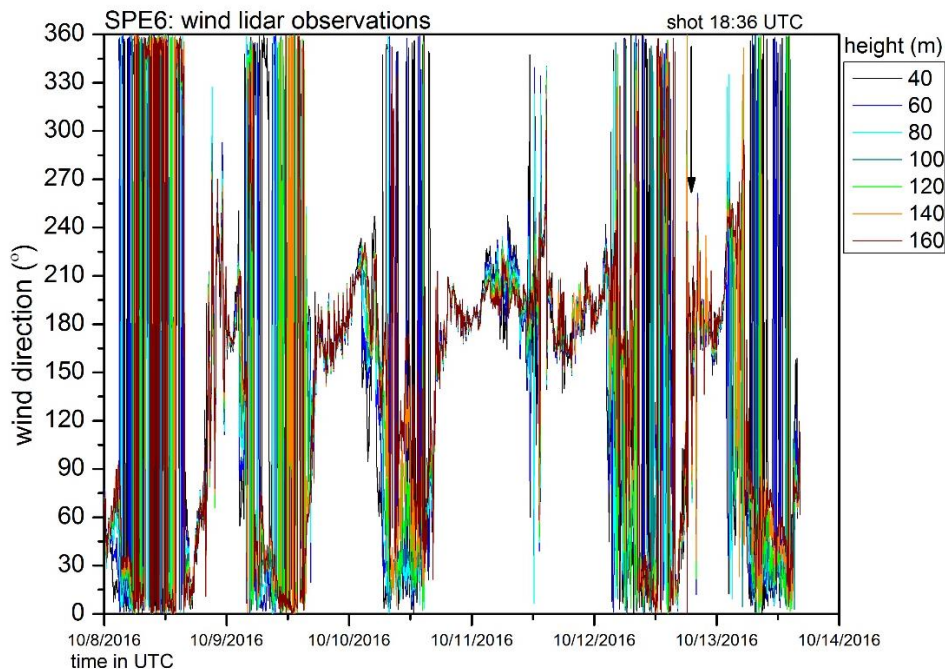


Figure 9: Time series of 5-minute mean wind direction during the week-long SPE6 lidar field campaign (8 -13 October 2016). Diurnal wind shifts were very common during this time period as winds primarily came from the north at night and the south during the day. The shot event took place during east-southeasterly to southerly winds at the lidar location.

Data file Structure: Two types of daily data files are created by the Wind Cube v2. Both are ASCII files and can be opened directly in Microsoft Excel. The first, **.rtd**, contains the high frequency measurements. The second, **.sta**, contains the 5-minute averaged data. More details are given below.

(1) .rtd :

Filename structure: WLS7-284-YYYY-MM-DD-HH-MM-SS.rtd

Number of header lines: 42

Header details: A note on location. On header line 5 the location is listed as U20az. This is incorrect. The scientist forgot to type in the new location during setup when the lidar was moved to SPE6. Except for being incorrectly entered in the header, this reference has no bearing on the measurements in the data file. The GPS location (on header 6) is generated by the instrument and shows the correct location at SPE6.

Data Rows: the time interval is roughly every one second. A measurement is given at this frequency even though it takes roughly 4 seconds to make a complete conical scan. In order to remove some of the noise, the data were also averaged over the 4-second interval in post-processing. Remember that time is in UTC.

Data Columns: Timestamp (MM:SS:DS), Timestamp HH:MM:SS, Position (laser beam position), Temperature (internal temperature), Wiper count (ignore, not very accurate but supposed to be an indicator of rain or poor data availability), CNR (carrier-to-noise ratio, dB), radial wind speed (m/s), radial wind speed dispersion (this is standard deviation, m/s), wind speed (horizontal wind speed, m/s), wind direction (°), x-wind (component of horizontal wind speed vector along axis *north to south*, m/s), y-wind (component of horizontal wind speed along axis *east to west*, m/s), z-wind (vertical wind speed vector, positive z corresponds to a *down* slope vector, m/s). Note that these coordinate associations are different than what is typically used in meteorology.

Data flags: If the CNR ratio < -23, then the signal to noise ratio is considered too low and the data point is flagged with a NaN.

(2) .sta :

Filename structure: WLS7-284-YYYY-MM-DD-HH-MM-SS.sta

Number of header lines: 42

Header details: A note on location. On header line 5 the location is listed as U20az. This is incorrect. The scientist forgot to type in the new location during setup when the lidar was moved to SPE6. Except for being incorrectly entered in the header, this reference has no bearing on the measurements in the data file. The GPS location (on header 6) is generated by the instrument and shows the correct location at SPE6.

Data Rows: the time interval is every five minutes. These are five minute averages of the high frequency ~1Hz data found in the .rtd files. The timestamp is at the end of the averaging period. Remember that time is in UTC.

Data Columns: Timestamp, Internal Temperature (instrument temp, °C), External Temperature (NaN, no sensor attached), Pressure (NaN, no sensor attached), Relative Humidity (NaN, no sensor attached), wiper count (ignore, not very accurate but supposed to be an indicator of rain or poor data availability), Vbatt (voltage of external battery, NaN), Wind Speed (average horz wind speed in 5 minute period, m/s), Wind speed dispersion (standard deviation of horz wind speed in 5 minute period, m/s), Wind speed min (minimum horz wind speed in 5 minute period, m/s), Wind speed max (maximum horz wind speed in 5 minute period, m/s), Z-wind (average vertical wind speed in 5 minute period, m/s, positive is down slope direction), Z-wind dispersion (standard deviation of vert wind speed in 5 minute period, m/s), CNR (average carrier to noise ratio, dB), CNR min (minimum CNR during 5 minute period), Dopp Spect Broad (Doppler spectral broadening, m/s), Data availability (% of data during 5 minute period with CNR > -23 , “percent of good data”).