

DRI--45156

**BIBLIOGRAPHY OF REPORTS ON STUDIES OF
THE GEOLOGY, HYDROGEOLOGY AND
HYDROLOGY AT THE NEVADA TEST SITE,
NYE COUNTY, NEVADA,
FROM 1951 TO 1996**

prepared by

Paul R. Seaber, Eva D. Stowers and Richard H. Pearl

Submitted to

Nevada Operations Office
U.S. Department of Energy

RECEIVED

AUG 18 1997

OSTI

April 1997

MASTER

DISTRIBUTION OF THIS DOCUMENT IS UNLIMITED

Publication No. 45156

28

DISCLAIMER

**Portions of this document may be illegible
in electronic image products. Images are
produced from the best available original
document.**

This report was prepared as an account of work sponsored by the United States Government. Neither the United States nor the United States Department of Energy, nor any of their employees, makes any warranty, express or implied, or assumes any legal liability or responsibility for the accuracy, completeness or usefulness of any information, apparatus, product or process disclosed, or represents that its use would not infringe privately owned rights. Reference herein to any specific commercial product, process, or service by trade name, mark, manufacturer, or otherwise, does not necessarily constitute or imply its endorsement, recommendation, or favoring by the United States Government or any agency thereof. The views and opinions of authors expressed herein do not necessarily state or reflect those of the United States Government or any agency thereof.

This report has been reproduced directly from the best available copy.

Available to DOE and DOE contractors from the Office of Scientific and Technical Information, P.O. Box 62, Oak Ridge, TN 37831; prices available from (423) 576-8401.

Available to the public from the National Technical Information Service, U.S. Department of Commerce, 5285 Port Royal Rd., Springfield, VA 22161.

**BIBLIOGRAPHY OF REPORTS ON STUDIES OF THE
GEOLOGY, HYDROGEOLOGY AND HYDROLOGY AT
THE NEVADA TEST SITE, NYE COUNTY, NEVADA,
FROM 1951 TO 1996**

prepared by

Paul R. Seaber
Eva D. Stowers
Water Resources Center
Desert Research Institute
University and Community College System of Nevada

Richard H. Pearl
Nevada Operations Office
U.S. Department of Energy

Publication No. 45156

submitted to

Nevada Operations Office
U.S. Department of Energy
Las Vegas, Nevada

April 1997

The work upon which this report is based was supported by the U.S. Department of Energy under Contract #DE-AC08-95NV11508.

ABSTRACT

Reports listed in this document include information relating to the Nevada Test Site (NTS) concerning the geology, hydrogeology, and hydrology of the area. The bibliography is divided into two parts: (1) reports which are listed alphabetically by author, and (2) reports which are indexed alphabetically by subject and subindexed by author. It covers the period from 1951 to the present (1996). The reports are mainly the result of cooperative programs of the U.S. Department of Energy and its predecessor agencies. This document was prepared as part of the Hydrologic Resources Management Program (HRMP) of the U.S. Department of Energy's Nevada Operations Office (DOE/NV) effort to provide information concerning the natural resources, particularly the hydrology and geology, of the NTS. It contains alphabetical listings of approximately 1,700 publications and additional references, such as abstracts relating to these investigations dating from 1951 through 1996, and an extensive index based on title-subject keywords. This document was prepared so that the accumulation of scientific literature over the last 45 years of work accomplished at the NTS could be listed in one publication for use by laypersons and scientists alike concerned with the NTS, thus making it possible to locate publications of interest to both research and general interests.

CONTENTS

ABSTRACT	ii
FIGURES AND TABLES	iv
INTRODUCTION	v
DESCRIPTION	vii
PURPOSE AND OBJECTIVE	vii
GENERAL OVERVIEW OF THE NEVADA TEST SITE	viii
GEOLOGY, HYDROGEOLOGY AND HYDROLOGY OF THE NEVADA TEST SITE AND VICINITY	viii
SUMMARY	xxii
REFERENCES	xxii
BIBLIOGRAPHY	1
SUBJECTS	Subject-1

FIGURES

1. Location of the Nevada Test Site.	vi
2. Physiographic features of the Nevada Test Site.	ix
3. Location of the Death Valley groundwater-flow system in relation to local geographic features and areas of federal land administration.	x
4. General area of underground nuclear testing and other potential sources of subsurface contamination at the Nevada Test Site.	xi
5. Generalized groundwater subbasins of the Death Valley basin and flow system. .	xiii
6. Composite potentiometric surface map of the Nevada Test Site and vicinity	xiv
7. Regional groundwater flow for the Nevada Test Site and vicinity.	xv
8. Geologic cross section showing generalized groundwater flow beneath the Nevada Test Site and vicinity.	xvi

TABLES

1. General Characteristics of Groundwater Subbasins of the Nevada Test Site and Vicinity.	xvii
2. Principal Stratigraphic and Associated Hydrogeologic Units of the Nevada Test Site and Vicinity.	xviii
3. Nomenclature for Hydrogeologic Units of the Nevada Test Site and Vicinity. ...	xxi

INTRODUCTION

The Nevada Test Site (NTS) was established in 1951 as a proving ground for nuclear weapons (Figure 1). The site had formerly been part of an Air Force bombing and gunnery range during World War II. Sponsor-directed studies of the geology, hydrogeology, and hydrology of the NTS began about 1956 and were broad based in nature, but were related mainly to the effects of the detonation of nuclear weapons. These effects included recommending acceptable media and areas for underground tests, the possibility of off-site contamination of groundwater, air blast and surface contamination in the event of venting, ground-shock damage that could result from underground blasts, and studies in support of drilling and emplacement (Eckel, 1968). The studies were both of a pure scientific nature and of a practical applied nature.

The NTS was the site of 828 underground nuclear tests and 100 above-ground tests conducted between 1951 and 1992 (U.S. Department of Energy, 1994a). After July 1962, all nuclear tests conducted in the United States were underground, most of them at the NTS. The first contained underground nuclear explosion was detonated on September 19, 1957 (Miller, 1968), following extensive study of the underground effect of chemical explosives. The tests were performed by U.S. Department of Energy (DOE) and its predecessors, the U.S. Atomic Energy Commission and the Energy Research and Development Administration. As part of a nationwide complex for nuclear weapons design, testing and manufacturing, the NTS was the location for continental testing of new and stockpiled nuclear devices. Other tests, including Project "Plowshare" experiments to test the peaceful application of nuclear explosives, were conducted on several parts of the site. In addition, the Defense Nuclear Agency tested the effect of nuclear detonations on military hardware.

In September 1992, a moratorium on nuclear testing was imposed by Congress, and President Clinton subsequently extended the moratorium. As of 1996, activities have focused on stockpile stewardship and readiness to resume testing if required. Other missions at the NTS have included work in the development of nuclear space propulsion systems and nuclear ramjet engines.

Presently, two NTS locations are used to dispose of defense low-level radioactive waste. Low-level radioactive waste comes from NTS operations as well as other DOE sites in the nuclear weapons complex.

The investigations of the geology, hydrogeology and hydrology of the NTS have been conducted by a large ensemble of federal, state, and local agencies, as well as by the private sector. The contributing agencies and companies are too numerous to mention individually but can be ascertained from the bibliographic references. Most federal agencies have taken part in these studies. Many state and local agencies have participated. The investigations have produced a large and varied literature. Many of the reports, particularly the early reports, were classified and had limited distribution. However, many of these have since been declassified and released to the public in the open literature. Many others have been revised and published in the open scientific literature.

A separate bibliography of publications related to the Yucca Mountain Site Characterization Project in Nevada has been published (Glanzman, 1981). Several other bibliographies relating to the NTS have been published, notably by the U.S. Geological Survey (USGS) (Glanzman, 1992).

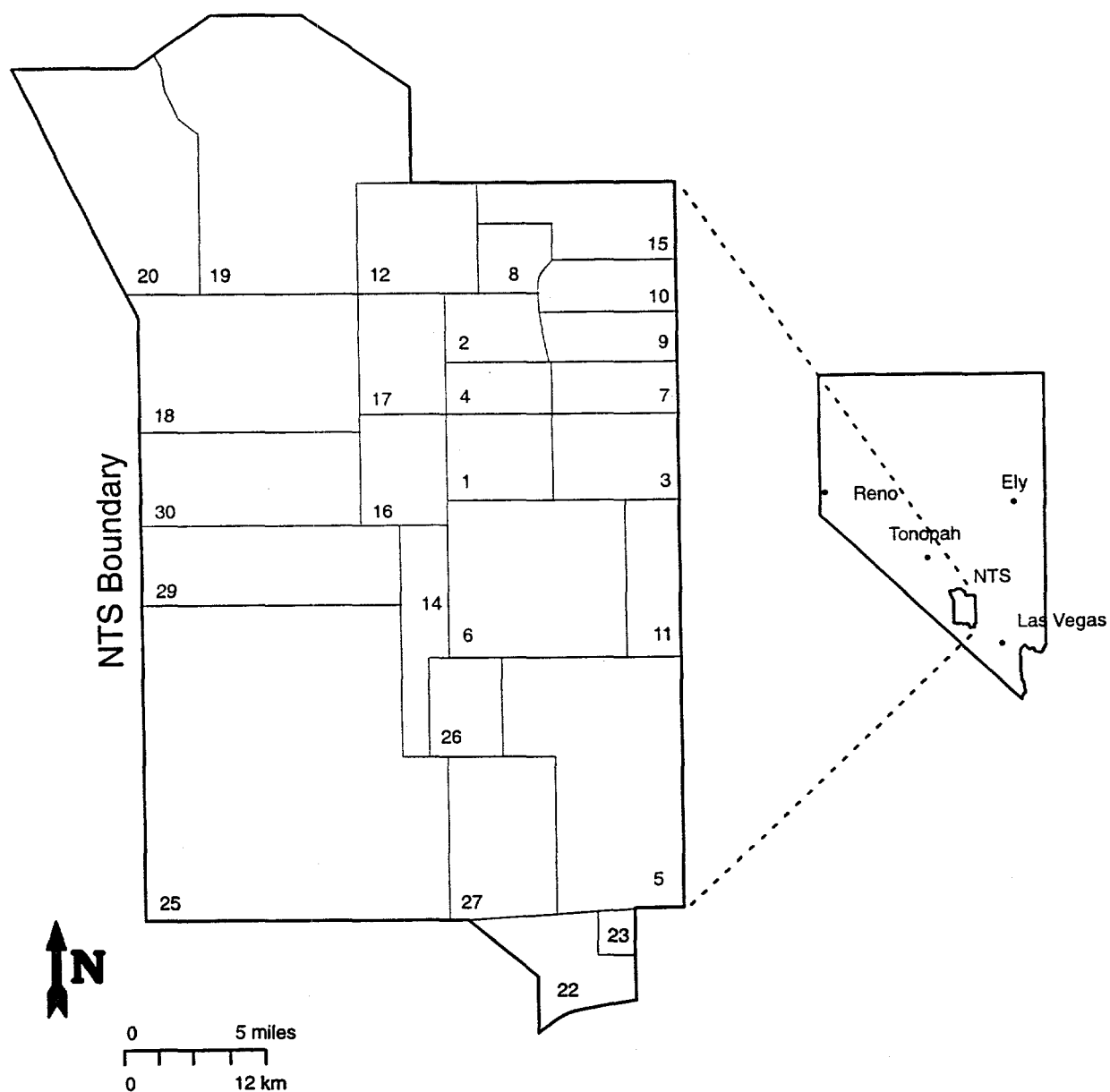


Figure 1. Location of the Nevada Test Site.

Geologic, hydrogeologic and hydrologic studies sponsored by DOE in southern Nevada are presently managed by two different offices, the Yucca Mountain Site Characterization Office (DOE/YMSCO), whose efforts are focused on characterization studies required to support suitability studies for a proposed high-level nuclear waste repository, and the Nevada Operations Office (DOE/NV). DOE/NV activities have expanded since the 1992 moratorium and include chemical spill testing, emergency response training, conventional weapons testing, waste management and environmental technology studies. The present project, resulting in this bibliography, is part of DOE/NV's Hydrologic Resources Management Program (HRMP), formally known as the Hydrology/Radionuclide Migration Program. The participating agencies in this program are currently the USGS, Desert Research Institute (DRI), U.S. Environmental Protection Agency (EPA), Los Alamos National Laboratory (LANL), and Lawrence Livermore National Laboratory (LLNL).

DESCRIPTION

Publications are listed alphabetically by author in the main bibliography. All authors of reports are listed and cross referenced. These reports are then alphabetically indexed by subject and indexed by their subject headings pertinent to the geology, hydrogeology and hydrology of the NTS as an aid in recognizing related information on a particular subject.

The references were compiled from various sources, but primarily from HRMP agencies. Reports funded by the Yucca Mountain investigations (now DOE/YMSCO) that were of such a broad nature that their findings and conclusions would also apply to the NTS are included in this document.

In addition, using Dialog (a database search tool available from Knight-Ridder Information, Inc.), a search was made of the computer files of the NTIS (National Technical Information Service), GEOREF (a listing from the American Geological Institute), and Water Resources Abstracts (WRA, produced by Cambridge Scientific Abstracts). These references were then checked for duplication. A list of subject keywords was compiled and all references were made a part of that list.

The subject index is keyed to the actual publications. It was prepared primarily from titles of the publications with minimal research of publications content and, thus, may not be comprehensive. Users are encouraged to examine index listings under several related keywords.

PURPOSE AND OBJECTIVE

It is currently believed that a comprehensive bibliography of reports for the NTS does not exist. It was deemed desirable to produce such a document as an aid to present and future researchers at the NTS. This document is only an initial effort, but should be helpful to the layperson and researcher interested in past work on the geology, hydrogeology and hydrology of the NTS.

Many of the publications are available in public libraries. If a publication cannot be found in a library, the individual publishing agency, such as the USGS or DRI, should be contacted. DOE/NV Technical Information Resource Center in Las Vegas usually has a copy of most of the reports listed.

Many of the reports are out of print and arrangement may have to be made to inspect or reproduce copies. Journal articles or symposia proceedings should be requested from the appropriate publisher.

GENERAL OVERVIEW OF THE NEVADA TEST SITE

From the early 1950s, the NTS was the primary continental location for testing of nuclear weapons by the United States and for conducting experiments related to the peaceful application of nuclear explosions. The site, which occupies 3,600 km² (1,350 mi²) of south-central Nevada, was chosen by the Atomic Energy Commission primarily because of its remoteness from population centers and because of federal control over much of the land (U.S. Department of Energy, 1993, p.1). Physiographic features of the NTS are shown in Figure 2. The areas of federal land administration and the Death Valley flow system are shown in Figure 3.

Initially, nuclear tests were detonated at or above land surface, but after July 1962, all tests at the NTS were detonated underground. Activities at the NTS over the past 40 years have generated a substantial amount of hazardous waste, both at the surface and underground (Figure 4). The darker-shaded areas in Figure 4 delineate areas where tests were detonated near or below the water table. The largest volume of contaminants was produced as a direct consequence of nuclear testing. At the NTS, 828 underground nuclear tests have been detonated, most of which (more than 95 percent) were at Yucca Flat, Rainier Mesa, and Pahute Mesa (U.S. Department of Energy, 1994a). These nuclear devices were emplaced deep in the earth to contain both their explosive force and radioactive byproducts within the subsurface, thus avoiding the release of radioactive byproducts to the atmosphere and biosphere. Even though groundwater levels in the NTS region are generally more than 244 m (800 ft) below land surface, many of the intermediate- and larger-yield tests were detonated at depths near or below the water table to ensure the subsurface containment of radioactive byproducts (Laczniak *et al.*, 1996, p.2). These tests may have resulted in the introduction of radioactive and chemical contaminants into the regional groundwater system.

GEOLOGY, HYDROGEOLOGY AND HYDROLOGY OF THE NEVADA TEST SITE AND VICINITY

Below is a general description of the geology and hydrology of the NTS and vicinity. A more detailed description can be found in many of the references contained in this bibliography.

The NTS is located within the southern Great Basin region, an internally drained part of the Basin and Range physiographic province. It lies wholly within the Death Valley groundwater flow system, which covers an area of 40,922 km² (15,800 mi²) between the principal recharge areas in the high mountains of central Nevada and the southernmost discharge areas in Death Valley, California. Figure 5 shows the generalized subbasin of the Death Valley groundwater basin and flow system.

This region is characterized by low rainfall, intermittent streams, internal surface drainages, and large, sparsely distributed springs. It is estimated that more than 70,000 acre-ft of groundwater are transmitted annually through this geologically diverse region (Laczniak *et al.*, 1996, p.8). In

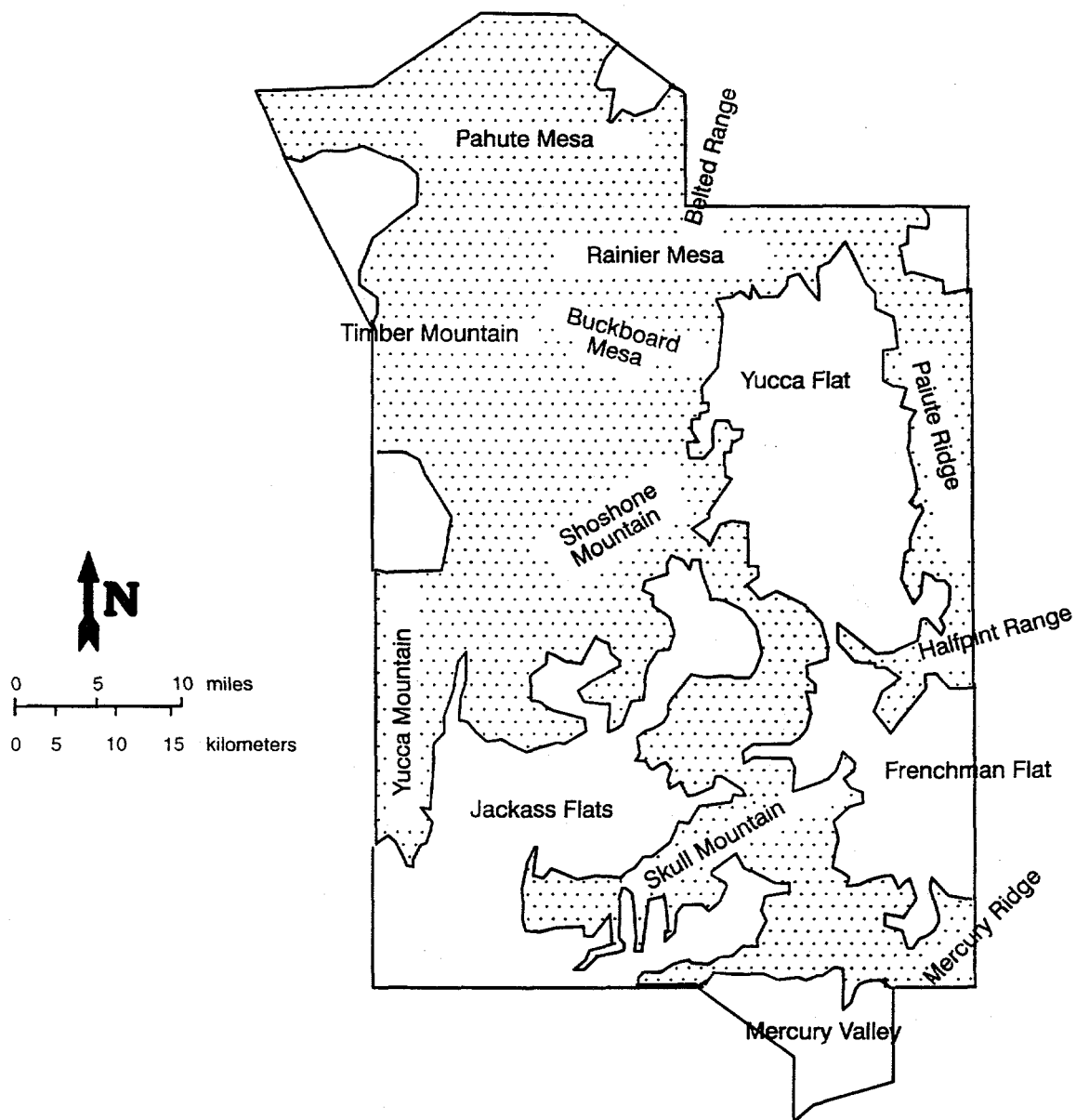


Figure 2. Physiographic features of the Nevada Test Site.

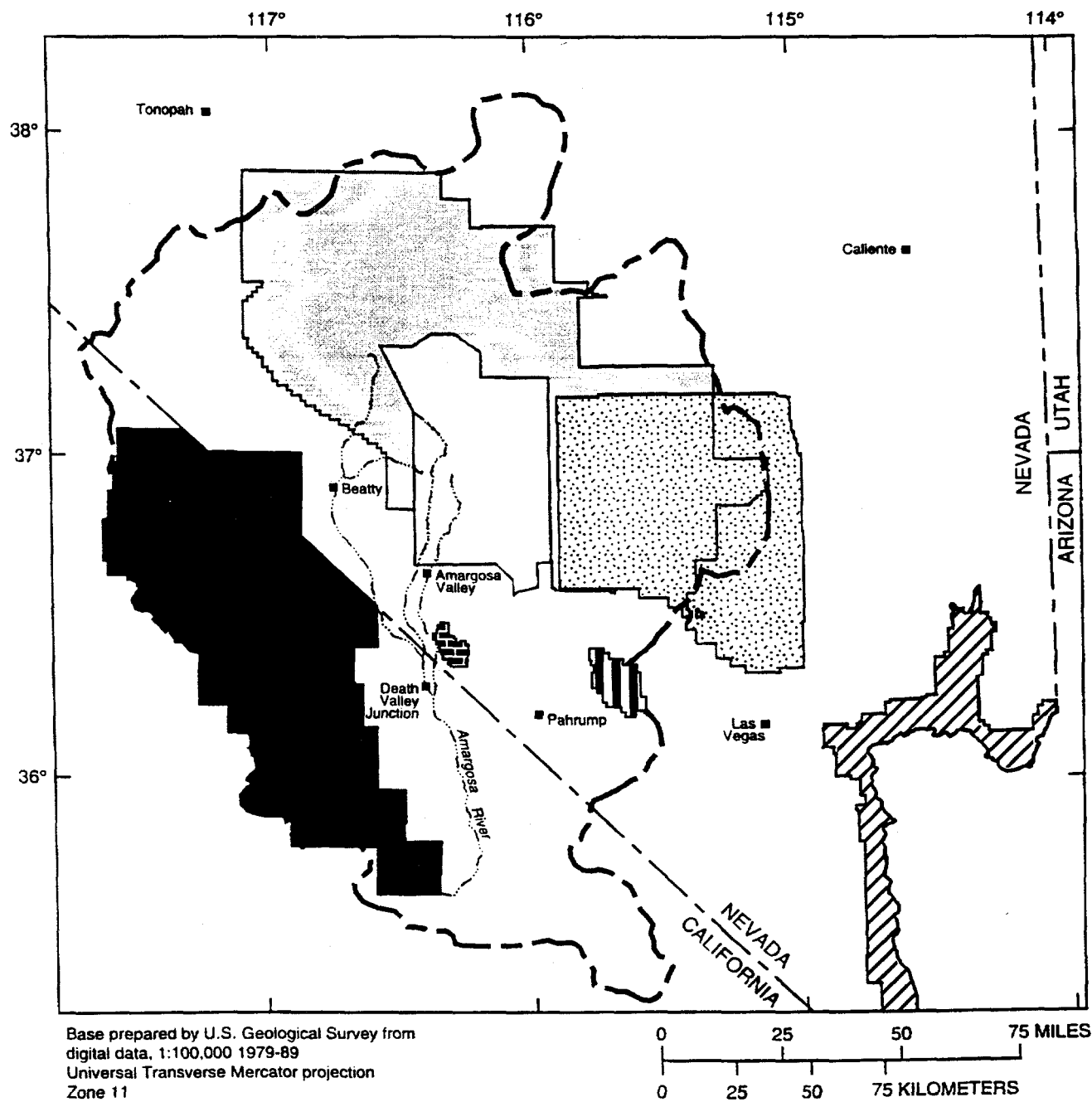
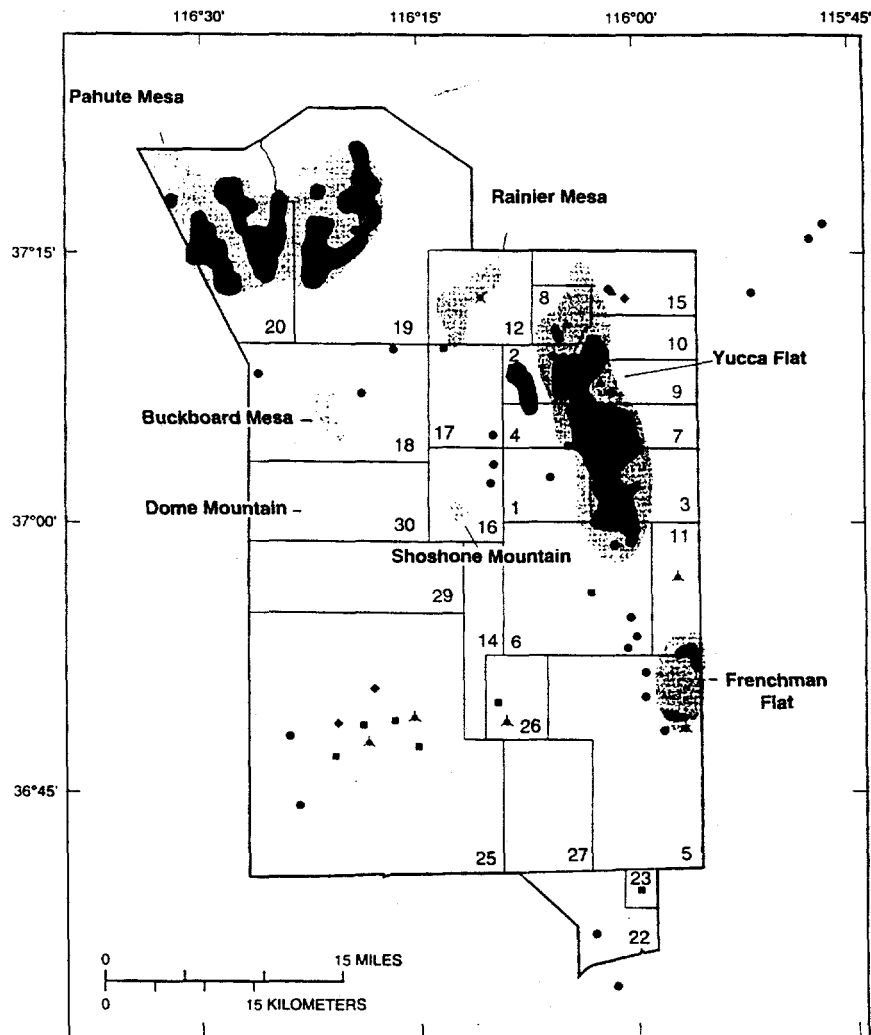


Figure 3. Location of the Death Valley groundwater-flow system in relation to local geographic features and areas of federal land administration (source: Lacznia *et al.*, 1996, p.6).



Base prepared by U.S. Geological Survey from digital data, 1:100,000 1979-89;
 Universal Transverse Mercator projection
 Zone 11

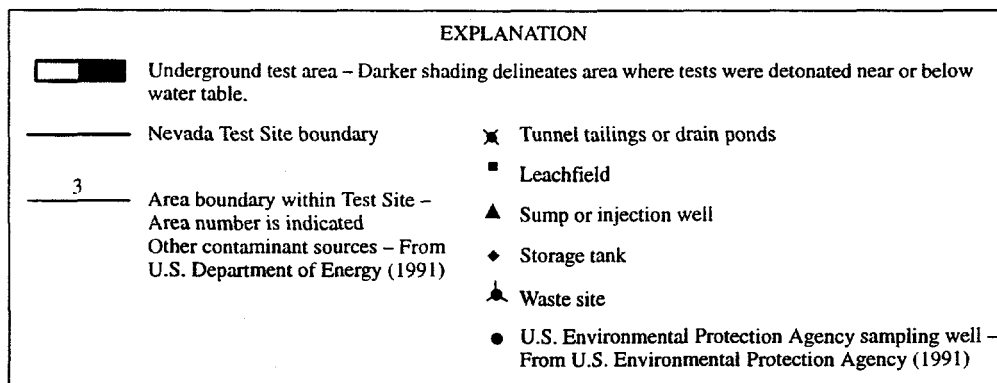


Figure 4. General area of underground nuclear testing and other potential sources of subsurface contamination at the Nevada Test Site (modified from Laczniaik *et al.*, 1996, p.4).

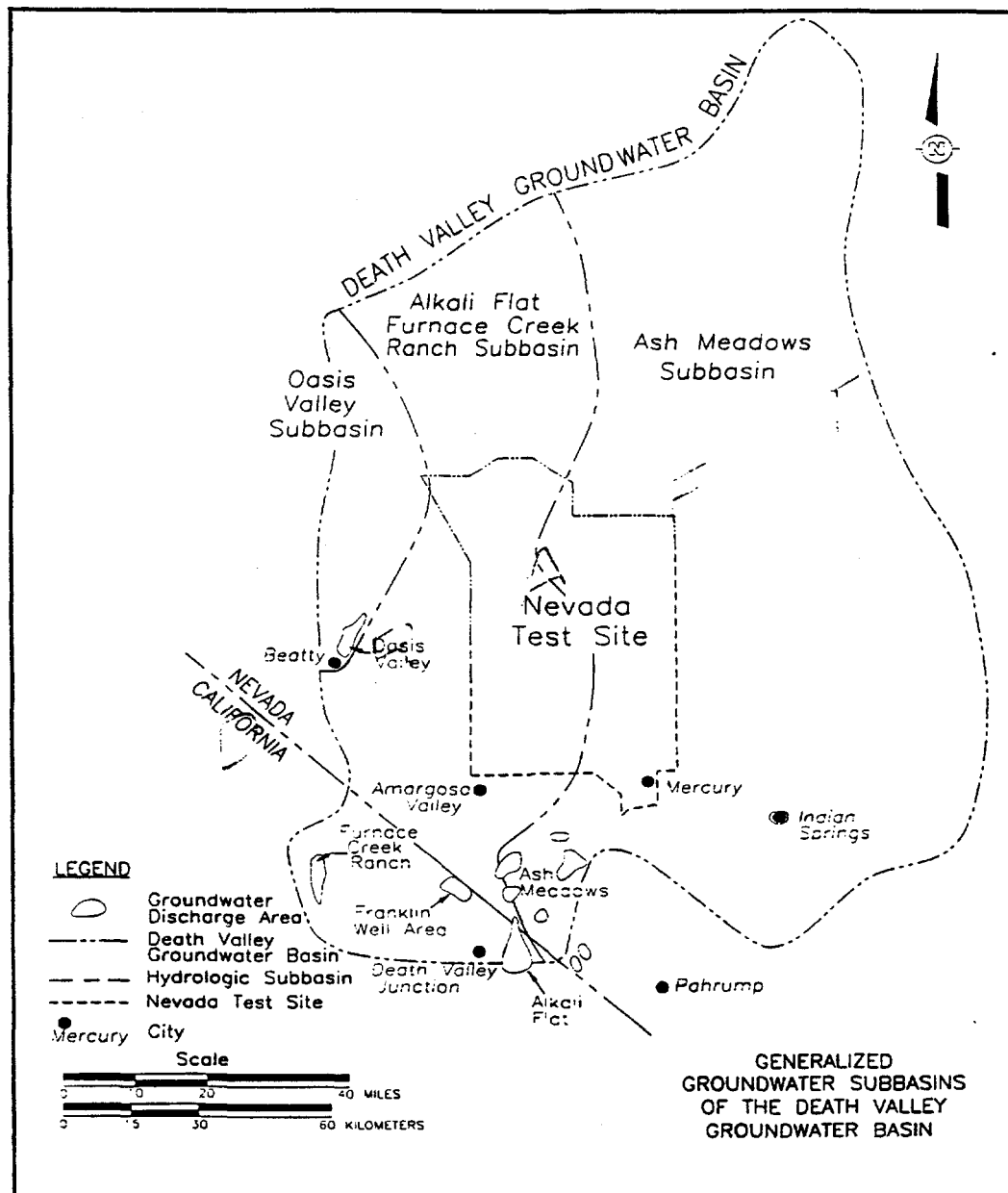


Figure 5. Generalized groundwater subbasins of the Death Valley basin and flow system (source: U.S. Department of Energy, 1994b).

general, water moves southward through thick sequences of carbonate and volcanic rocks away from areas of major recharge in central Nevada, toward areas of major surface discharge at Ash Meadows, Oasis Valley, Alkali Flat and Death Valley (Figure 5).

The composite potentiometric surface map (Figure 6) of the NTS and vicinity shows the height to which water rises in cased wells and represents either the unconfined groundwater table or the level of water in the first confined aquifer encountered below the land surface. Figure 7 shows the general direction of regional groundwater flow in a flat, horizontal plane and not necessarily the vertical flowpaths. The geologic cross section shown in Figure 8 depicts both horizontal and vertical flow.

The movement of groundwater is controlled largely by the water-transmitting properties of the rocks through which it flows. These major units are described in Tables 1, 2 and 3. Table 1 lists the generalized characteristics of the groundwater subbasins at the NTS and vicinity. Table 2 lists the principal stratigraphic and associated hydrogeologic units of the area. Table 3 lists the nomenclature for the hydrogeologic units of the area. The flow system occurs primarily within volcanic rock in the west and carbonate rock in the east. Most of the groundwater flow is conveyed through the NTS within a thick sequence of Paleozoic carbonate rocks, referred to as the carbonate aquifer. The carbonate aquifer occurs in much of central and southeastern Nevada. NTS groundwater is also conveyed through the volcanic and alluvial aquifers.

Rain and snow on some of the intermediate mountain ranges and higher mesas contribute thousands of acre-ft/yr of water into the underlying aquifers. Climatic zones range from semi-arid in the valleys to almost humid in the mountains. Vegetation is reflective of both elevation and increasing precipitation with increasing elevation. Local communities and commercial and federal facilities rely on groundwater for much of their water supply because surface water is limited in this mostly arid region. Wells throughout the flow system provide for agricultural, livestock, industrial and domestic water needs, as do numerous springs, which also support a diversity of wildlife and vegetation.

Groundwater flowing beneath the NTS passes through diverse rocks that differ substantially in terms of age, composition and water-bearing properties. These rocks form a complex, three-dimensional framework of groundwater conduits and barriers that can best be described as hydrogeologic units. The regional studies listed in this document form the basis for predicting the locations of the major hydrogeologic units that convey most of the groundwater in the upper 1,500 to 2,000 m (4,500 to 6,000 ft) of rock underlying the NTS. These are: the basement confining units, carbonate aquifer, Eleana confining unit, volcanic aquifers and confining units, and the valley-fill aquifers in ascending order of occurrence (see Table 3). These major units are useful descriptive elements of the conceptual hydrogeologic framework.

The rocks that make up the major regional hydrogeologic units include parts of a thick sequence (more than 12,000 m or 35,000 ft) of Paleozoic and older sedimentary rocks (about 600 to more than 280 million years before present [Ma]), local intrusive bodies of Cretaceous granite (about 100 Ma), a thick and variable assemblage of Miocene volcanic rocks (about 6 to 8 Ma), and

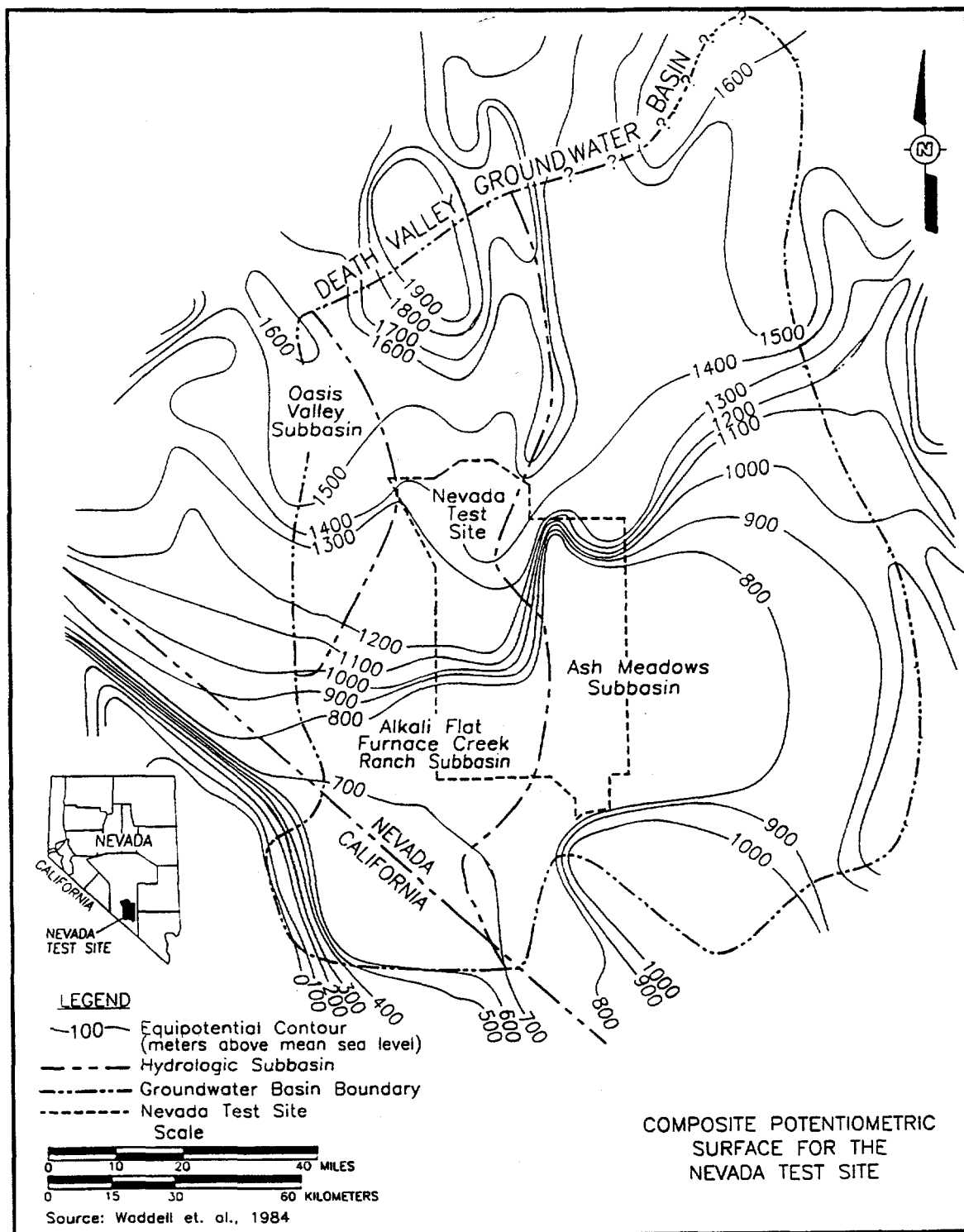
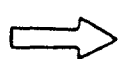
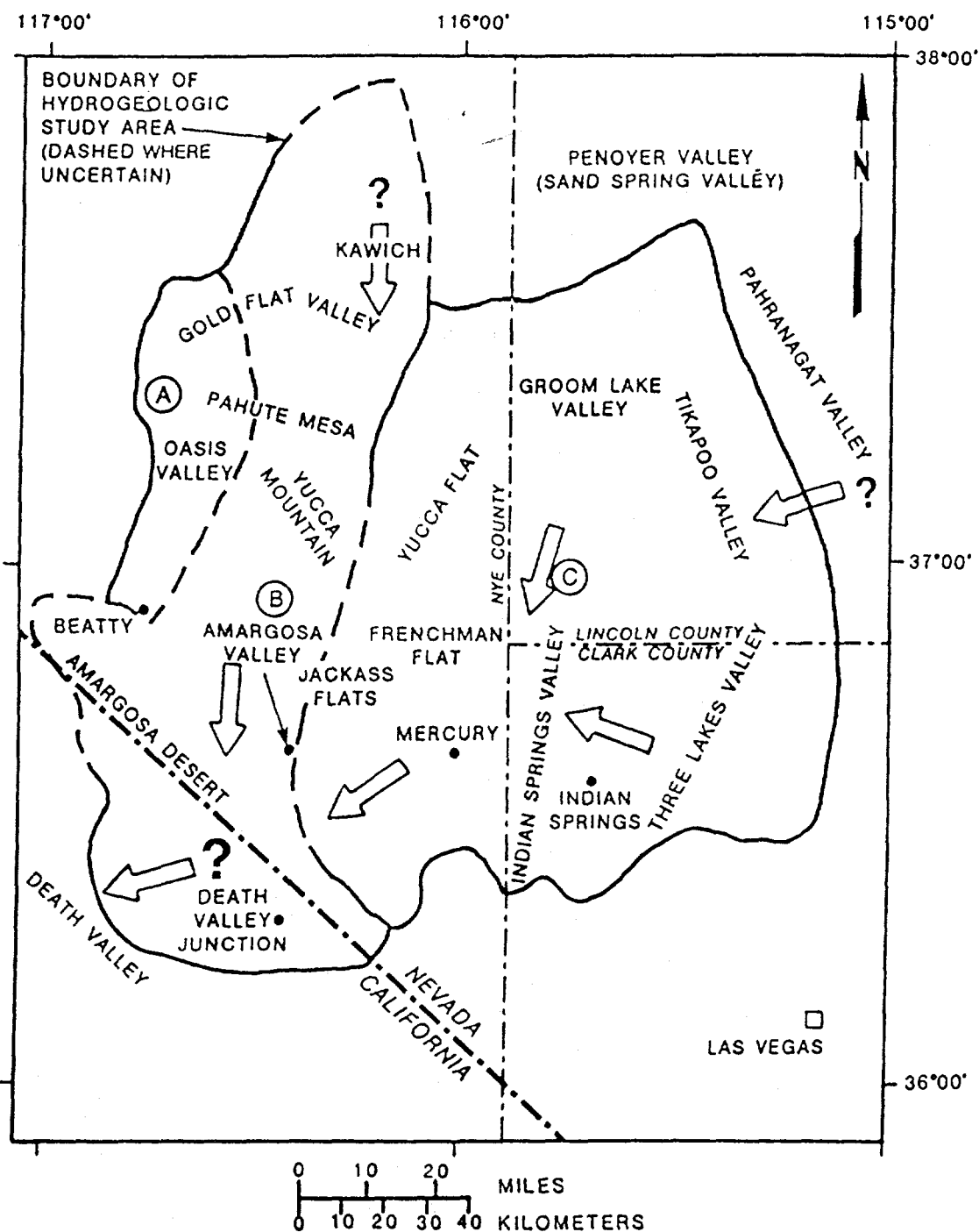


Figure 6. Composite potentiometric surface map of the Nevada Test Site and vicinity (source: U.S. Department of Energy, 1994b).



GENERAL DIRECTION OF REGIONAL GROUND-WATER FLOW
(QUESTION MARK INDICATES UNCERTAINTY)

- A. OASIS VALLEY SUBBASIN
- B. ALKALI FLAT-FURNACE CREEK RANCH SUBBASIN
- C. ASH MEADOWS SUBBASIN

Figure 7. Regional ground-water flow for the Nevada Test Site and vicinity (source: U.S. Department of Energy, 1994b).

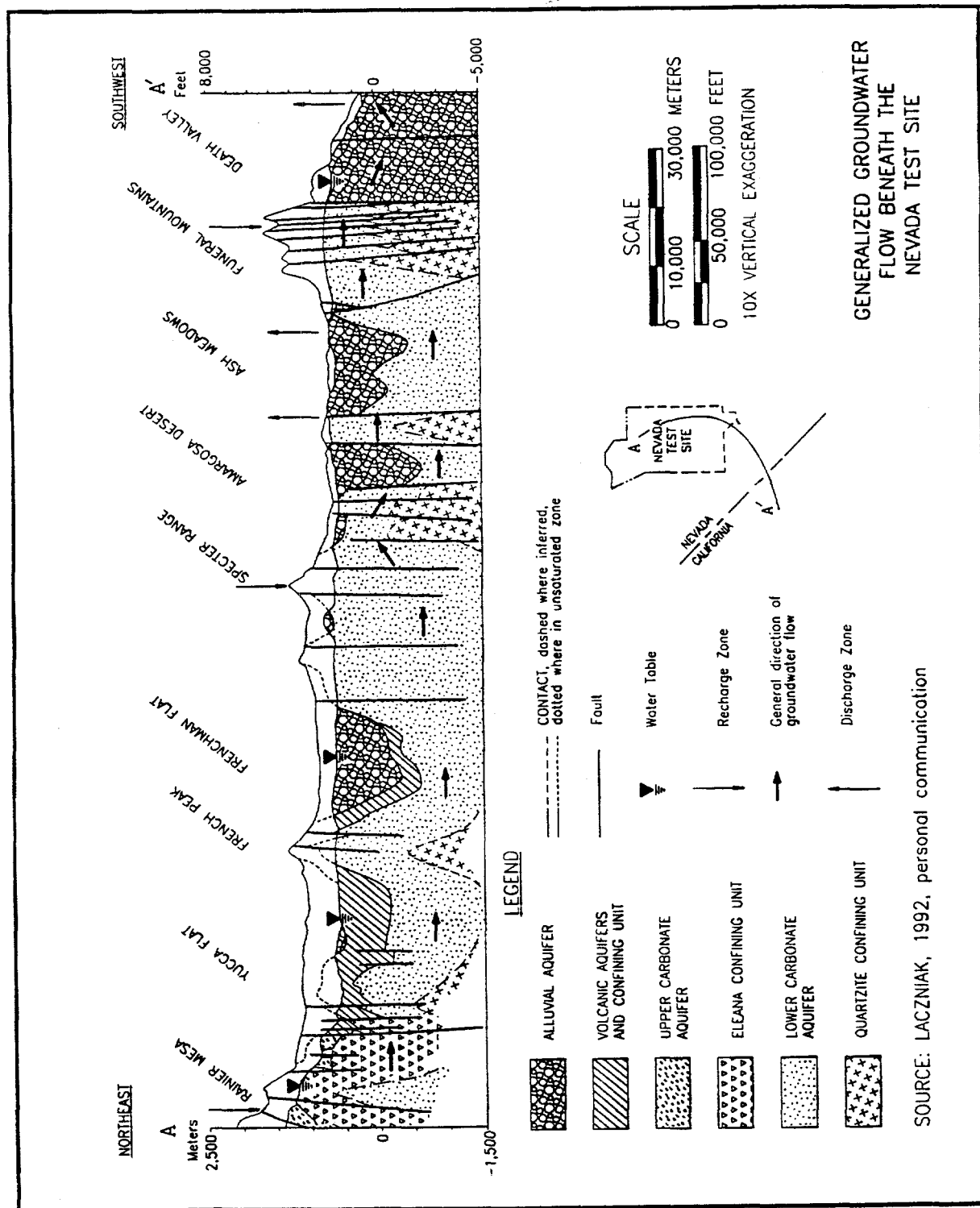


Figure 8. Geologic cross section showing generalized groundwater flow beneath the Nevada Test Site and vicinity (source: U.S. Department of Energy, 1996b).

TABLE 1. GENERAL CHARACTERISTICS OF GROUNDWATER SUBBASINS OF THE NEVADA TEST SITE AND VICINITY
(source: Lacznia et al., 1996, p.17).

Ground-water subbasin	Surface area (square miles)	Relation to NTS underground test areas	Principal water-bearing rocks	Inflow ¹	Outflow ¹
Oasis Valley [OV]	550	Includes westernmost part of Pahute Mesa test area in northwestern NTS	Welded tuffs and lava flow; valley-fill alluvium locally important at Gold Flat and Oasis Valley	Precipitation recharge near Black Mountain; subsurface inflow from Cactus Flat	Springflow and evapotranspiration at Oasis Valley; subsurface outflow to AFFCR south of Beatty, Nev.
Alkali Flat-Furnace Creek Ranch [AFFCR]	2,800	Includes most of Pahute Mesa and all Buckboard Mesa and Dome Mountain test areas in western NTS; Rainier Mesa and Shoshone Mountain test areas are along boundary between AFFCR and AM	Welded tuffs and lava flows in test areas; limestone, dolomite, and valley-fill alluvium south of test areas and at discharge area	Precipitation recharge at Belled Range, Kawich Range, Quinn Canyon Range, Pahute Mesa, and Rainier Mesa and possibly at Timber Mountain and Fortymile Wash; subsurface inflow from Cactus Flat and from across discharge areas of OV and AM	Springflow at Death Valley and evapotranspiration from Alkali Flat and Death Valley
Ash Meadows [AM]	4,000	Includes all Yucca Flat and Frenchman Flat test areas in central, eastern, and southern NTS; Rainier Mesa and Shoshone Mountain test areas are along boundary between AM and AFFCR	Welded and nonwelded tuffs, limestone, dolomites and valley-fill alluvium in test areas; limestone, dolomite and valley-fill alluvium south and west of test areas and at discharge areas	Precipitation recharge at Belled Range, Reveille Range, Rainier Mesa, Timpahute Range, Pahrangat Range, Sheep Range, Spring Mountains, and possibly at Desert Range; subsurface inflow from Railroad Valley and Pahrangat Valley	Springflow and evapotranspiration at Ash Meadows spring line; subsurface outflow beneath Ash Meadows to AFFCR

¹ Based on information from Winograd and Thordarson (1975), Waddell and others (1984), and Harrill and others (1988).

TABLE 2. PRINCIPAL STRATIGRAPHIC AND ASSOCIATED HYDROGEOLOGIC UNITS OF THE NEVADA TEST SITE AND VICINITY (source: Lacznia et al., 1996, p.11-14).

[Based on information from Blankennagel and Weir, 1973, table 1; Winograd and Thordarson, 1975, table 1; Byers and others, 1976; Cole and others, 1990; Sawyer and others, 1990; Sawyer and others, 1994; and R.G. Warren, Los Alamos National Laboratory, written commun., 1991]

Stratigraphic unit ¹		Principal lithology ²	Hydrogeologic unit ³	Known or inferred hydrologic significance ⁴
Valley-fill deposits [Qa, QTa, Qp, Qc, Qc] Miocene to Quaternary		Gravel and sand (eolian sand and lakebed deposits)	Valley-fill aquifer	Generally unsaturated except in deepest structural basins at Yucca Flat, Frenchman Flat, Emigrant Valley, and Amargosa Desert. Saturated thickness highly variable and can exceed 1,000 ft locally; local source of recharge to regional carbonate-rock aquifer. Fine-grained lakebed deposits present in Ash Meadows area may inhibit regional flow and divert ground water to surface [AM, OV, AFFCR]
Basalt [Qb, QTb, Tb] Miocene to Quaternary		Basalt in thin flows, dikes, and cinder cones	n/c	Generally unsaturated; dikes and local flows may influence local ground-water movement [OV, AFFCR, AM]
Thirsty Canyon Group [Tt] 9.4 Ma		Variable welded peralkaline rhyolite ash-flow tuff (trachyte lava)	Welded-tuff aquifer	Generally unsaturated; may contain local perched water in Pahute Mesa and beneath Oasis Valley [OV, AFFCR]
Timber Mountain Group [Tm] 12.5-11.5 Ma	Ammonia Tanks Tuff	Variable welded ash-flow tuff (bedded tuff)	Welded-tuff aquifer	Generally unsaturated except in Oasis Valley and possibly Jackass Flats [OV, AFFCR?]
	Rhyolite of Tannenbaum Hill	Rhyolite lava	Lava-flow aquifer	Local aquifer in northwestern part of Timber Mountain caldera [AFFCR, OV]
	Rainier Mesa Tuff	Variably welded ash-flow tuff (nonwelded tuff; rhyolite lava)	Welded-tuff aquifer	Major aquifer in deeper parts of Yucca Flat, CP Basin, Frenchman Flat, and Jackass Flats, and in western Pahute Mesa and Oasis Valley [AM, AFFCR, OV]
	Pre-Rainier Mesa rhyolites	Rhyolite lava (nonwelded tuff)	Lava-flow aquifer	Local aquifers in Pahute Mesa and at Yucca Mountain [AFFCR]
Paintbrush Group [Tp] 12.8-12.7 Ma	Post-Tiva Canyon rhyolites	Rhyolite lava (nonwelded tuff)	Lava-flow aquifer	Generally unsaturated; may form local aquifers in fault blocks in western and central Pahute Mesa; contains perched water elsewhere [OV, AFFCR]
	Tiva Canyon Tuff	Variably welded ash-flow tuff (nonwelded tuff; locally zeolitized)	Welded-tuff aquifer (tuff confining unit)	Major aquifer in Pahute Mesa and Jackass Flats; confining unit where nonwelded in Yucca Flat [AFFCR, AM]
	Middle Paintbrush Group rhyolites (includes rhyolites of Echo Peak and Silent Canyon)	Rhyolite lava (welded ash-flow tuff; nonwelded tuff, locally zeolitized)	Lava-flow aquifer (welded-tuff aquifer; tuff confining unit)	Local aquifers in Pahute Mesa; minor confining unit at Yucca Mountain [AFFCR]
	Topopah Spring Tuff	Variably welded ash-flow tuff (nonwelded tuff, locally zeolitized)	Welded-tuff aquifer (tuff confining unit)	Major aquifer in western Pahute Mesa, Jackass Flats, southern Yucca Flat, CP Basin, and Frenchman Flat [OV, AFFCR, AM]
Calico Hills Formation [Ta] 12.9 Ma	Volcanics of Area 20	Rhyolite lava and nonwelded tuff, commonly zeolitized (welded tuff)	Lava-flow aquifer, tuff confining unit (welded-tuff aquifer)	Major aquifer in central and western Pahute Mesa; major confining unit in eastern Pahute Mesa, Yucca Mountain, Jackass Flats, and Yucca Flat [AFFCR, OV?]
	Rhyolite of Inlet	Rhyolite lava	Lava-flow aquifer	Major aquifer in eastern and central Pahute Mesa [AFFCR, OV?]

TABLE 2. PRINCIPAL STRATIGRAPHIC AND ASSOCIATED HYDROGEOLOGIC UNITS OF THE NEVADA TEST SITE AND VICINITY (Continued).

Stratigraphic unit ¹		Principal lithology ²	Hydrogeologic unit ³	Known or inferred hydrologic significance ⁴
Wahmonie Formation [Tw] 13.0 Ma		Andesite and dacite volcanic breccia (lava; nonwelded tuff)	Tuff confining unit (lava-flow aquifer or confining unit?)	Confining unit west of Frenchman Flat and in Jackass Flats; contains perched water near Cane Springs and Pavits Spring; thin confining unit in Yucca Flat (AM, AFFCR)
Crater Flat Group [Tc] 13.25-13.1Ma	Prow Pass Tuff	Variably welded ash-flow tuff (nonwelded tuff, commonly zeolitized)	Welded-tuff aquifer (tuff confining unit)	Major aquifer at Yucca Mountain; confining unit where nonwelded in Yucca Flat and Rainier Mesa (AFFCR, AM)
	Middle units	Rhyolite lava (latite lava; nonwelded tuff)	Lava-flow aquifer	Local aquifers in Pahute Mesa; confining units where nonwelded and zeolitized (AFFCR, AM)
	Bullfrog Tuff	Variably welded ash-flow tuff (nonwelded tuff, commonly zeolitized)	Welded-tuff aquifer (tuff confining unit)	Major aquifer at Yucca Mountain; major confining unit in Pahute Mesa (AFFCR, AM)
	Tram Tuff	Variably welded ash-flow tuff	Welded-tuff aquifer	Major aquifer at Yucca Mountain (AFFCR, AM)
Belted Range Group [Tb] 13.85-13.6 Ma	Deadhorse Flat Formation	Rhyolite lava and variably welded ash-flow tuff (nonwelded tuff, commonly zeolitized)	Lava-flow aquifer; welded-tuff aquifer	Major aquifers in eastern Pahute Mesa (AFFCR, OV?)
	Grouse Canyon Tuff	Peralcaline welded ash-flow tuff (nonwelded tuff, commonly zeolitized)	Welded-tuff aquifer (tuff confining unit)	Local aquifer in Yucca Flat and Pahute Mesa (AFFCR, AM, OV)
Tunnel Formation [Tn] about 14 Ma		Nonwelded tuff, commonly zeolitized	Tuff confining unit	Major confining unit in Rainier Mesa and Yucca Flat; contains perched water at Rainier Mesa (AFFCR, AM)
Volcanics of Big Dome [Tu] about 15 Ma	Rhyolite of Quartet Dome	Peralcaline rhyolite lava	Lava-flow aquifer	Local aquifer in eastern Pahute Mesa (AFFCR)
	Tub Spring Tuff	Variably welded ash-flow tuff	Welded-tuff aquifer	Local aquifer in northern Yucca Flat and in parts of Pahute Mesa and Rainier Mesa (AFFCR, AM)
Older volcanics [To] 16-15 Ma	Tunnel bed 2 and Tunnel bed 1	Nonwelded tuff, commonly zeolitized	Tuff confining unit	Confining unit in Rainier Mesa and Yucca Flat; contains perched water at Rainier Mesa (AFFCR, AM)
	Red Rock Valley Tuff, Fraction Tuff, and pre-fraction tuffs	Variably welded ash-flow tuff; nonwelded tuff, commonly zeolitized	Tuff confining unit (welded-tuff aquifer)	Major confining unit where nonwelded in southern Yucca Flat and Frenchman Flat; local aquifers in northern Yucca Flat, southern Rainier Mesa, and parts of Pahute Mesa. Unit locally includes ash-flow tuffs of older mid-Tertiary volcanic centers (AFFCR, AM)
Pavits Spring Formation [Ts] Miocene		Tuffaceous sandstone; local conglomerate and siltstone (ash-fall tuff; lacustrine limestone)	n/c	Significance unknown; mapped as an informal unit east, south, and west of Frenchman Flat; partly coeval with some other volcanic units (AM)
Horse Spring Formation [Ts] mid-Tertiary		Conglomerate and tuffaceous sandstone (lacustrine limestone; ash-fall tuff)	n/c	Significance unknown; mapped as an informal unit south and west of Frenchman Flat along Rock Valley fault system (AM)

TABLE 2. PRINCIPAL STRATIGRAPHIC AND ASSOCIATED HYDROGEOLOGIC UNITS OF THE NEVADA TEST SITE AND VICINITY (Continued).

Stratigraphic unit ¹		Principal lithology ²	Hydrogeologic unit ³	Known or inferred hydrologic significance ⁴
Paleocolluvium [Tx] Tertiary		Sedimentary breccia	n/c	Locally very porous; thickness variable along basal contact of Tertiary section; only known from Yucca Flat and Rainier Mesa areas; hydrologic significance uncertain but known to act as a local confining unit in Yucca Flat (AM, AFFCR)
Granite [Kg] Cretaceous		Porphyritic monzogranite	n/c	Relatively impermeable; forms local cylindrical stocks north of Rainier Mesa and Yucca Flat; locally yields water from fracture zones (AFFCR, AM)
Tippipah Limestone [PIPt] Chiefly Pennsylvanian		Thin-bedded limestone (pebble conglomerate)	Upper carbonate-rock aquifer	Local aquifer in western Yucca Flat; limited lateral extent (AM)
Eleana Formation [MDe] and Chainman Shale [Mch] Chiefly Mississippian		Siliceous siltstone; chert sandstone; cobble conglomerate (shale; quartzite; bioclastic limestone)	Eleana confining unit	Major confining unit along boundary between AFFCR and AM subbasins in western Yucca Flat and northern Jackass Flats; saturated thickness variable and can exceed 5,000 ft at some locations; locally yields water from fracture zones in quartzite and limestone (AFFCR, AM)
Guilmette Formation [Dg] Devonian		Limestone, locally sandy and dolomitic	Lower carbonate-rock aquifer	Regional carbonate-rock aquifer; saturated thickness can exceed 15,000 ft; conveys most ground water in Yucca Flat-Frenchman Flat area and along Rock Valley fault system; principal aquifer throughout Ash Meadows subbasin; significant aquifer in southern part of Yucca Mountain and south into AFFCR subbasin (AM, AFFCR)
Simonson Dolomite [Ds] Devonian		Dolomite, locally silty or cherty		
Sevy, Laketown, and Lone Mountain Dolomite; Roberts Mountain Formation; dolomite of Spotted Range [various symbols] Chiefly Silurian and Devonian		Dolomite, locally silty or cherty		
Ely Springs Dolomite [Oes] Ordovician		Dolomite, cherty dolomite		
Eureka Quartzite [Oe] Ordovician		Siliceous orthoquartzite		
Pogonip Group [Op] Ordovician		Limestone and silty limestone (dolomite)		
Nopah Formation [En] Cambrian		Limestone and dolomite, locally cherty and silty; Dunderberg Shale at base		
Bonanza King Formation [Ebk] Cambrian		Dolomite and limestone (silty dolomite; chert)		
Carrara Formation [Ec] Cambrian	[upper part]	Limestone and silty limestone		Due to displacement on low-angle faults, carbonate rocks of these stratigraphic order above Eleana Formation or Chainman Shale; in such situations, structural blocks of these units do not form lower carbonate-rock aquifer, but rather act similar to upper carbonate-rock aquifer

TABLE 2. PRINCIPAL STRATIGRAPHIC AND ASSOCIATED HYDROGEOLOGIC UNITS OF THE NEVADA TEST SITE AND VICINITY (Continued).

Stratigraphic unit ¹		Principal lithology ²	Hydrogeologic unit ³	Known or inferred hydrologic significance ⁴
Carrara Formation [Cc] Cambrian	[lower part]	Shale and siltstone (limestone and quartzite)	Quartzite confining unit	Widespread confining unit that forms hydrologic basement throughout much of southern Nevada; saturated thickness can exceed 10,000 ft; forms major barrier to lateral ground-water flow in northeastern Yucca Flat, south of Oasis Valley near Beatty, and south of Ash Meadows; locally yields substantial water from fractured quartzite or fault zones in northern Yucca Flat [OV, AFFCR, AM]
Zabriskie Quartzite [Cz] Cambrian		Siliceous orthoquartzite		
Wood Canyon Formation [CZw] Cambrian and Eocambrian		Micaceous siltstone and orthoquartzite (dolomite; pebbly quartzite)		
Stirling Quartzite [Zs] Eocambrian		Siliceous orthoquartzite and micaceous siltstone (quartzite conglomerate)		
Johnnie Formation [Zj] Eocambrian		Siliceous orthoquartzite and micaceous siltstone (silty limestone)	n/c	Known only from bottom of deep drillhole UE-15d in northern Yucca Flat; stratigraphic identity uncertain (Barnes, 1962)
Noonday Dolomite [Zn?] Eocambrian		Dolomite		

¹ Map symbol shown in brackets. Approximate age given in millions of years ago (Ma) or indicated by geologic system.

² Rock type listed in order of decreasing prevalence; minor but significant rock types listed in parentheses.

³ Hydrogeologic units in order of decreasing prevalence. Stratigraphic classification of Tertiary volcanic rocks is based on age and composition. Lithologic and hydrologic properties may be extremely variable from place to place. n/c, stratigraphic unit has not been characterized as a hydrogeologic unit, generally because its presence in the unsaturated zone is minor.

⁴ Code in brackets at end of entry gives ground-water subbasin or subbasins in which stratigraphic units is prevalent. AFFCR, Alkali Flat-Furnace Creek Ranch; AM, Ash Meadows; and OV, Oasis Valley. Query indicates uncertainty regarding presence or significance of unit in subbasin.

TABLE 3. NOMENCLATURE FOR HYDROGEOLOGIC UNITS OF THE NEVADA TEST SITE AND VICINITY (source: Lacznia et al., 1996, p.14).

Regional hydrogeologic unit	Subregional hydrogeologic unit	Equivalent previous units (Winograd and Thordarson, 1975)
Valley-fill aquifer	Valley-fill aquifer ¹	Valley-fill aquifer
Volcanic-rock aquifer	Welded-tuff aquifer ¹	Welded-tuff aquifer
		Bedded-tuff aquifer
Volcanic confining unit	Lava-flow aquifer ¹	Lava-flow aquifer
	Tuff confining unit ¹	Tuff aquitard
N/R ²	Granite ¹	Lava-flow aquitard
N/R ²		Minor aquitard
	Upper carbonate-rock aquifer ¹	Upper carbonate-rock aquifer
Eleana confining unit	Eleana confining unit	Upper clastic aquitard
Carbonate-rock aquifer	Lower carbonate-rock aquifer	Lower carbonate-rock aquifer
Basement confining unit	Quartzite confining unit	Lower clastic aquitard

¹ Due to original lenticular or interlayered form of constituent rock bodies, or due to geometric modifications caused by faulting or folding, or both, these hydrogeologic units generally consist of more than one disconnected or partially connected aquifer or confining unit.

² N/R, no regional hydrogeologic unit is recognized because corresponding subregional units have limited areal extent and do not substantially effect regional ground-water flow.

locally thick deposits of post-volcanic gravel and sand that fill the valleys (Frizzell and Shulters, 1990). Major structural events have also left their imprint on the region and are detailed elsewhere. The principal structural features of the NTS are a series of high-angle, southward-trending, listric-normal faults.

The oldest rocks at the NTS are quartzite, sandstone, and siltstone of Proterozoic to Lower Cambrian (Paleozoic) age which are about 2,800 m (7,500 ft) thick. They are overlain by a sequence of predominantly carbonate rocks belonging to the middle Cambrian- to Mississippian-age rock of about 5,200 m (15,600 ft) thick. The Devonian and Mississippian rocks grade northward and westward into a sequence of argillite, siltstone, and sparse quartzite and conglomerate about 800 m (2,350 ft) thick formed by the erosion of the highlands that rose west of the area in late Paleozoic time. During the Tertiary period, the Proterozoic and Paleozoic rocks at the northern and western parts of the NTS were covered by voluminous eruptions of silicic ash-flow and ash-fall tuffs from several caldera complexes of the southwestern Nevada volcanic field. Intermontane valleys within and near the NTS may contain as much as 600 m (200 ft) of Miocene and Holocene alluvium. The relation of these rocks to the hydrogeologic units are given in the tables.

SUMMARY

This document is a compilation of the available references that describe the geology, hydrogeology, and hydrology of the NTS and has been indexed to present subjects of interest to the readers and users. For those unfamiliar with the physical setting of the NTS, a brief description, tables and illustrations were given of its geology, hydrogeology, and hydrology. This is accomplished through illustrations and some text taken from other reports, particularly Laczniaik *et al.* (1996) and a "Field Trip to the Nevada Test Site, Yucca Mountain, Ash Meadows National Wildlife Refuge and Devils Hole National Monument," unpublished manuscript by the U.S. Department of Energy/Nevada Operations Office, Yucca Mountain Site Characterization Office, and the Lawrence Livermore National Laboratory, April 22, 1995.

It is hoped that this bibliography will be a useful starting point for those interested in the scientific literature accumulated over the past 45 years of work by many individuals and agencies that have published on these subjects concerning the NTS and vicinity.

REFERENCES

- Eckel, E.B., 1968, Nevada Test Site. Geological Society of America Memoir 110.
- Frizzell, V.A., Jr., and J. Shulters, 1990, Geologic map of the Nevada Test Site, Southern Nevada. U.S. Geological Survey Miscellaneous Investigations Map I-2046, 1 sheet, scale 1:100,000.
- Glanzman, V.M., 1981, Bibliography of reports by U.S. Geological Survey personnel pertaining to underground nuclear testing and radioactive waste disposal at the Nevada Test Site, and radioactive waste disposal at the Waste Isolation Pilot Plant Site, New Mexico, January 1, 1980 to December 31, 1980. U.S. Geological Survey Open-File Report 811-892.

- Glanzman, V.M., 1992, Bibliography of publications prepared by U.S. Geological Survey personnel under cooperative programs with the U.S. Department of Energy and predecessor agencies, 1957-1991, with emphasis on nuclear testing programs. U.S. Geological Survey Open-File Report 92-502.
- Laczniak, R.J., J.C. Coles, D.A. Sawyer, and D.A. Trudeau, 1996, Summary of hydrogeologic controls on ground-water flow at the Nevada Test Site, Nye County, Nevada. U.S. Geological Survey Water Resources Investigations Series Report 96-4109.
- Miller, R.E., 1968, Welcoming address for Rocky Mountain Section, Geological Society of America, in Eckel, E.B., ed., Nevada Test Site. Geological Society of America Memoir 110, p. 1-4.
- U.S. Department of Energy, 1993, Nevada Test Site: A historical perspective. NTS News and Views, Souvenir Edition.
- U.S. Department of Energy, 1994a, United States Nuclear Tests, July 1945 through September 1992, DOE/NV-209 (Rev. 14), December 1994.
- U.S. Department of Energy, 1994b, Field trip to the Nevada Test Site and Yucca Mountain with emphasis on groundwater studies. U.S. Department of Energy unpublished manuscript.

**BIBLIOGRAPHY OF REPORTS ON STUDIES OF THE
GEOLOGY, HYDROGEOLOGY AND HYDROLOGY AT
THE NEVADA TEST SITE, NYE COUNTY, NEVADA,
FROM 1951 TO 1996**

- Aamodt, P.L., 1973
see Dixon, G.L., et al., 1973
- Abbott, E.W., Hodos, E.B., Johnson, M.J., and Friberg, R.S., 1989, Bullfrog Mine, Nevada Test Site, Cyprus Tonopah Mine; Northern Nevada Section-AIPG 1989 field trip, March 19, 20, 21, 1989 : American Institute of Professional Geologists.
- Abey, A.E., 1973
see Duba, A.G., et al., 1973
- Adams, W.M., Preston, R.G., Flanders, P.L., Sachs, D.C., and Perret, W.R., 1961, Summary report of strong-motion measurements, underground nuclear detonations: *Journal of Geophysical Research*, v. 66, no. 3, p. 903-942.
- Aguilar, R.D., 1979
see Erdal, B.R., et al., 1979
- Aguilar, R.D., 1980
see Vine, E.N., et al., 1980
- Aguilar, R.D., 1981
see Wolfsberg, Kurt, et al., 1981
- Aguilar, R.D., 1982
see Norris, A.E., et al., 1982
- Aiken, C.L.V., 1979
see Felch, R.N., et al., 1979
- Aitken, D.S., 1988
see Hildenbrand, T.G., et al., 1988
- Akers, J.P., 1974, The relation of ground water in Amargosa Desert, California-Nevada to spring discharge in Death Valley, California: U.S. Geological Survey Administrative Report.
- Akers, J.P., 1985
see Nichols, W.D., and Akers, J.P., 1985
- Aki, Keiiti, Reasenberg, Paul, DeFazio, Thomas, and Tsai, Yi-Ben, 1969a, Near-field and far-field seismic evidences for triggering of an earthquake: *EOS, Transactions, American Geophysical Union*, v. 50, no. 4, p. 253.
- Aki, Keiiti, Reasenberg, Paul, DeFazio, Thomas, and Tsai, Yi-Ben, 1969b, Near-field and far-field seismic evidences for triggering of an earthquake by the Benham explosion: *Bulletin of the Seismological Society of America*, v. 59, no. 6, p. 2197-2207.
- Albright, J.N., Parker, L.E., and Horton, E.H., 1983, Nevada Test Site seismic: telemetry measurements: Los Alamos National Laboratory Report LA-9840-MS.
- Albright, W., Tyler, S.W., Chapman, J.B., Miller, M., and Estrella, Rocio, 1994, Area 5 site characterization on project report, FY 1994: U.S. Dept. of Energy Report DOE/NV/10845-T20.
- Alexander, S.S., 1970
see Glover, Peter, and Alexander, S.S., 1970

Alexander, S.S., 1983, Lateral variations in geologic structure and tectonic setting from remote sensing data (Final Report 16 March 1980-30 September 1982): Air Force Office of Scientific Research Report AFOSR-TR-83-0610.

Algermissen, S.T., 1986
see Perkins, D.M., et al., 1986

Allen, B.M., in preparation
see Drellack, S.L., Jr., et al., in preparation

Allen, C.C., 1983
see Connolly, J.R., et al., 1983

Allen, C.C., 1984
see Connolly, J.R., et al., 1984

Allingham, J.W., 1968, Remanent magnetism of rhyolitic tuffs at Rainier Mesa, Nevada Test Site [abs.], *in* Abstracts, Geological Society of America: Geological Society of America Special Paper 101, p. 383.

Allingham, J.W., and Zeitz, Isidore, 1962, Geophysical data on the Climax Stock, Nevada Test Site, Nye County, Nevada: *Geophysics*, v. 27, no. 5, p. 599-610 (also U.S. Geological Survey Report TEI-794).

Allmendinger, R.W., Hauge, T.A., Hauser, E.C., Potter, C.J., Klemper, S.L., Nelson, K.P., and Oliver, J.E., 1987, Overview of the COCORP 40 degrees N transect, western United States: the fabric of an orogenic belt: *Geological Society of America Bulletin*, v. 98, p. 308-319.

Amy, P.S., 1991
see Russell, C.E., et al., 1991

Amy, P.S., 1993
see Kieft, T.L., et al., 1993

Amy, P.S., 1994a
see Haldeman, D.L., et al., 1994

Amy, P.S., 1994b
see Russell, C.E., et al., 1994

Ander, H.D., 1983, Ash-flow tuff distribution and fault patterns as indicators of rotation of late-tertiary regional extension, Nevada Test Site, *in* Proceedings of the second symposium on containment of underground nuclear explosions, August 2-4, 1983, v. 1: NTIS Report CONF-830882, p. 155-174.

Ander, H.D., 1984, Rotation of late Cenozoic extensional stresses, Yucca Flat region, Nevada Test Site, Nevada: Rice University unpublished Ph.D. dissertation.

Ander, H.D., Byers, F.M., Jr., Orkild, P.P., Barnes, Harley, Carr, W.J., Dudley, W.W., Jenkins, E.C., Poole, F.G., Shroba, R.R., Scott, R.B., Van Werken, M.G., Broxton, D.E., Crowe, B.M., Krier, D.J., Levy, S.S., Hawkins, W.L., Vaniman, D.T., and Warren, R.G., 1984, Nevada Test Site field trip guidebook (Field Trip 10), *in* Lintz, Joseph, ed., *Western geological excursions*, v. 2: Geological Society of America, p. 1-35.

Ander, H.D., and Oldow, J.S., 1983, Late Cenozoic rotation of extensional stresses, Yucca Flat region, Nevada Test Site, Nevada [abs.]: *EOS, Transactions, American Geophysical Union*, v. 64, no. 45, p. 858.

Anderson, D.L., Archambeau, C.B., Brune, J.N., Richter, C.F., and Smith, S.W., 1970, Earthquakes and nuclear detonations: *Science*, v. 167, no. 3920, p. 1011-1012.

Anderson, E.E., 1962, Preliminary petrographic study of rocks from Basalt Mesa, Nevada Test Site, App. E, in Project Buckboard--20-ton and 1/2-ton high explosive cratering experiments in basalt rock: Sandia Corp. Report SC-4675(RR), p. 303-307.

Anderson, G.D., and Kusubov, A.S., 1986a, Static and dynamic mechanical properties of tuff from the Nevada Test Site [abs.]: EOS, Transactions, American Geophysical Union, v. 67, no. 44, p. 1202.

Anderson, G.D., and Kusubov, A.S., 1986b, Static and dynamic mechanical properties tests of core material from hole U18j at the Nevada Test Site: Lawrence Livermore National Laboratory Report UCRL-92456.

Anderson, G.D., Rambo, J.T., Kusubov, A.S., Dockery, H.A., and McKinnis, W.B., 1987, Relationship between large-hole drilling rates and compressive strength of NTS (Nevada Test Site) rock types: Lawrence Livermore National Laboratory Report UCRL-96313.

Anderson, L.A., 1981, Rock property analysis of core samples from the Calico Hills UE25a-3 borehole, Nevada Test Site, Nevada: U.S. Geological Survey Open-File Report 81-1337.

Anderson, L.A., 1982
see Hoover, D.B., et al., 1982

Anderson, L.A., Bisdorf, R.J., and Schoenthaler, D.R., 1980, Resistivity sounding investigation by the Schlumberger method in the Syncline Ridge area, Nevada Test Site, Nevada: U.S. Geological Survey Open-File Report 80-466.

Anderson, L.M., 1986
see McLaughlin, K.L., et al., 1986

Anderson, L.M., 1987
see McLaughlin, K.L., et al., 1987

Anderson, L.M., and McLaughlin, K.L., 1985, 2-D linear finite difference calculations for effects of local structure on teleseismic explosion waveforms from Yucca Valley, NTS [abs.]: EOS, Transactions, American Geophysical Union, v. 66, no. 18, p. 315.

Anderson, R.E., 1965
see Ekren, E.B., et al., 1965

Anderson, R.E., 1968
see Ekren, E.B., et al., 1968

Anderson, R.E., and Barnhard, T.P., 1991, Rhyolite flow fields as barriers to paleohydrologic flow in eastern Nevada and western Utah between latitudes 37 degrees 30'N and 38 degrees N, in Gomberg, J.S., ed., U.S. Geological Survey Committee for the Advancement of Science in the Yucca Mountain Project, Symposium on fractures, hydrology, and Yucca Mountain: Abstracts and summary: U.S. Geological Survey Open-File Report 91-125, p. 23-24.

Anderson, R.E., and Ekren, E.B., 1968, Widespread Miocene igneous rocks of intermediate composition, southern Nye County, Nevada, in Eckel, E.B., ed., Nevada Test Site: Geological Society of America Memoir 110, p. 57-63.

Andricevic, Roko, 1993

- see Pohlmann, K.F., and Andricevic, Roko, 1994
- Andricevic, Roko, Daniels, J.I., and Jacobson, R.L., 1994, Radionuclide migration using a travel time transport approach and its application in risk analysis: *Journal of Hydrology*, v. 163, no. 1-2, p. 125-145.
- Andricevic, Roko, Jacobson, R.L., and Daniels, J.I., 1993, Accounting for predictive uncertainty in a risk analysis focusing on radiological contamination of groundwater, in Kovar, K., and Soveri, J., eds., *Groundwater quality management: International Association of Hydrological Sciences publication v. 220*, p. 215-224.
- Angelo, C.G., 1962a
see Beetem, W.A., et al., 1962
- Angelo, C.G., 1962b
see Goldberg, M.C., et al., 1962
- Angelo, C.G., 1965
see Beetem, W.A., et al., 1965
- Anspaugh, L.R., Phelps, P.L., Huckaby, G.W., and Todachine, T., 1973, Field spectrometric measurements of radionuclide concentrations and external gamma exposure rates at the Nevada Test Site, a demonstration study: Lawrence Livermore Laboratory Report UCRL-51412.
- App, F.N., 1989
see Cogbill, A.H., et al., 1989
- App, F.N., and Taylor, S.R., 1993, Analysis of ground motion from the NTS explosion DIVIDER [abs.]: *EOS, Transactions, American Geophysical Union*, v. 74, no. 43, Suppl., p. 449.
- Archambeau, C.B., 1970
see Anderson, D.L., et al., 1970
- Armstrong, R.L., 1963, Geochronology and geology of the eastern Great Basin in Nevada and Utah: Yale University unpublished Ph.D. dissertation.
- Armstrong, R.L., 1968, Sevier orogenic belt in Nevada and Utah: *Geological Society of America Bulletin*, v. 79, p. 429-458.
- Arney, B., 1982
see Broxton, D.E., et al., 1982
- Aronson, J.L., 1990
see Bish, D.L., et al., 1990
- Arteaga, F.E., Savard, C.S., Johnson, M.E., and Stone, J.C., 1991, Hydrogeologic data from selected wells and test holes in and adjacent to the Nevada Test Site, Nye County, Nevada, through 1986: U.S. Geological Survey Open-File Report 87-536.
- Atwood, C.L., and Hertzler, C.L., 1989, Review of selected radiation monitoring results at and near the radioactive waste management site of the Nevada Test Site, 1970-1988: Final draft: Idaho National Engineering Laboratory Report EG&G-SARE-8555.
- Avon, Lizanne and Durbin, T.J., 1994, Evaluation of the Maxey-Eakin method for estimating recharge to ground-

water basins in Nevada: Water Resources Bulletin, v. 30, no. 1, p. 99-111.

Axen, G.J., 1988

see Wernicke, Brian, et al., 1988

Bache, T.C., Rodi, W.L., and Harkrider, D.G., 1978, Crustal structures inferred from Rayleigh-wave signatures of NTS explosions: Seismological Society of America Bulletin, v. 68, no. 5, p. 1399-1413.

Bailey, C.A., 1993

see Nakanish, K.K., et al., 1993

Bailey, D.M., 1967

see Carter, L.D., et al., 1967

Baker, D.F., 1993

see Pearson, D.C., et al., 1993

Baker, F.B., 1960

see Clebsch, Alfred and Baker, F.B., 1960

Bakhtiar, S.N., 1990, Thorium-230 dating of natural waters at the Nevada Test Site: U.S. Dept. of Energy Report CONF-9010219-3.

Balch, A.H., Lee, M.W., and Muller, D.C., 1980, A vertical seismic profiling experiment to determine depth and dip of the Paleozoic surface at drill hole U10bd, Nevada Test Site, Nevada: U.S. Geological Survey Open-File Report 80-847.

Baldwin, D.A., 1971

see Dudley, W.W., et al., 1971

Baldwin, D.A., 1988

see Robison, J.H., et al., 1988

Baldwin, M.J., 1982a

see Townsend, D.R., and Baldwin, M.J., 1982

Baldwin, M.J., 1982b

see Townsend, D.R., et al., 1982

Baldwin, M.J., 1983a

see Bath, G.D., et al., 1983

Baldwin, M.J., 1983b

see Orkild, P.P., et al., 1983

Baldwin, M.J., and Jahren, C.E., 1982, Magnetic properties of drill core and surface samples from the Calico Hills area, Nye County, Nevada: U.S. Geological Survey Open-File Report 82-536.

Ball, S.H., 1907, A geologic reconnaissance in southwestern Nevada and eastern California: U.S. Geological Survey Bulletin 308.

Ballard, R.F., Jr., 1964, Vibration tests, Nevada Test Site, Mercury, Nevada, 11-16 February 1964: U.S. Army

Engineer Waterways Experiment Station, Vicksburg, Miss., Report AEWES-MISC-PAPER-4-636.

Ballard, R.F., Jr., 1968, A vibratory technique for delineating subsurface fracture zones resulting from detonations, *in* Triandafilidis, G.E., chairman, Proceedings of international symposium on wave propagation and dynamic properties of earth materials, Albuquerque, N.Mex., 1967: University of New Mexico Press, p. 891-903.

Ballou, L.B., 1979a, Geological disposal investigations in granite at the Nevada Test Site, *in* Geological disposal of nuclear waste; 19th annual symposium, p. 43-46 (also U.S. Dept. of Energy Report CONF-790304-7).

Ballou, L.B., 1979b
see Ramspott, L.D., et al., 1979

Ballou, L.B., 1980
see Ramspott, L.D., and Ballou, L.B., 1980

Ballou, L.B., 1981
see Ramspott, L.D., et al., 1981

Ballou, L.B., Isherwood, D.J., and Patrick, W.C., 1984, Field testing at the Climax Stock on the Nevada Test Site: Spent fuel test and radionuclide migration experiments, *in* Hofmann, P.L., ed., The technology of high-level nuclear waste disposal: Advances in the science and engineering of the management of high-level nuclear wastes: U.S. Dept. of Energy Report DOE/TIC-4621, v. 2, p. 53-75.

Balsinger, D.F., 1962
see Twenhofel, W.S., et al., 1962

Banfill, Robert, 1992
see Cranswick, Edward, et al., 1992

Banfill, Robert, 1993
see Meremonte, M.E., et al., 1993

Banks, D.C., 1965
see Nugent, R.C., and Banks, D.C., 1965

Barker, B.W., 1987
see Murphy, J.R., et al., 1987

Barker, B.W., Der, Z.A., and Mrazek, C.P., 1981, The effect of crustal structure on the regional phases P_g and L_g at the Nevada Test Site: Journal of Geophysical Research B, v. 86, no. 3, p. 1686-1700.

Barker, B.W., Mrazek, C.P., and Der, Z.A., 1979, The effect of crustal structure on the regional phases P_g and L_g at NTS [abs.]: EOS, Transactions, American Geophysical Union, v. 60, no. 18, p. 325.

Barker, C.E., 1993
see Cole, J.C., et al., 1993

Barker, C.E., 1994, Thermal and petroleum generation history of the Mississippian Eleana Formation and Tertiary source rocks, Yucca Mountain area, southern Nye County, Nevada: U.S. Geological Survey Open-File Report 94-161.

Barker, C.E., 1995, Thermal and petroleum-generation history of the Mississippian Eleana Formation and Tertiary source rocks, Yucca Mountain area, southern Nye County, Nevada: AAPG Bulletin, v. 79, no. 6, p. 915.

Barker, J.S., Hartzell, S.H., Burdick, L.J., and Helmberger, D.V., 1991, Analysis of local seismic waveforms from underground nuclear explosions: Forward modeling for effective source functions at Pahute Mesa: *Journal of Geophysical Research*, B, Solid Earth and Planets, v. 96, no. 6, p. 10,129-10,143.

Barker, J.S., Wallace, T.C., Burdick, L.J., and Helmberger, D.V., 1985, The applicability of elastic waveform modeling in the near field of underground nuclear explosions: *EOS, Transactions, American Geophysical Union*, v. 66, no. 18, p. 315.

Barker, L., 1994

see Istok, J.D., et al., 1994

Barker, L.E., 1992

see Lindstrom, T.F., et al., 1992

Barker, L.E., 1995

see Shott, G.J., et al., 1995

Barker, T.G., Farrell, W.E., and Lambert, D.G., 1981, A source mechanism for the NTS event Harzer consistent with near-field, regional and teleseismic observations: *EOS, Transactions, American Geophysical Union*, v. 62, no. 45, p. 971.

Barnes, Harley, 1961

see Byers, F.M., Jr., et al., 1961

Barnes, Harley, 1962, Stratigraphic interpretation of rocks penetrated by UE15d drill hole: U.S. Geological Survey Technical Letter Yucca-1, Supplement 5.

Barnes, Harley, 1967a

see Byers, F.M., Jr. and Barnes, Harley, 1967

Barnes, Harley, 1967b

see Healey, D.L., et al., 1967

Barnes, Harley, 1969

see Christiansen, R.L., et al., 1969

Barnes, Harley, 1984

see Ander, H.D., et al., 1984

Barnes, Harley, and Byers, F.M., Jr., 1961, Windfall Formation (Upper Cambrian) of Nevada Test Site and vicinity, Nevada: U.S. Geological Survey Professional Paper 424-C, p. C103-C106.

Barnes, Harley, and Christiansen, R.L., 1967, Cambrian and Precambrian rocks of the Groom District, Nevada, southern Great Basin: U.S. Geological Survey Bulletin 1244-G, p. G1-G34.

Barnes, Harley, Christiansen, R.L., and Byers, F.M., Jr., 1962, Cambrian Carrara Formation, Bonanza King Formation, and Dunderberg Shale east of Yucca Flat, Nye County, Nevada: U.S. Geological Survey Professional Paper 450-D, p. D27-D31.

Barnes, Harley, Christiansen, R.L., and Byers, F.M., Jr., 1965, Geologic map of the Jangle Ridge quadrangle, Nye and Lincoln counties, Nevada: U.S. Geological Survey Geologic Quadrangle Map GQ-363, scale 1:24,000.

- Barnes, Harley, Ekren, E.B., Rogers, C.L., and Hedlund, D.C., 1982, Geologic and tectonic maps of the Mercury quadrangle, Nye and Clark Counties, Nevada: U.S. Geological Survey Miscellaneous Investigations Series Map I-1197, scale 1:24,000.
- Barnes, Harley, Houser, F.N., and Poole, F.G., 1963a, Geologic map of the Oak Spring quadrangle, Nye County, Nevada: U.S. Geological Survey Geologic Quadrangle Map GQ-214, scale 1:24,000.
- Barnes, Harley, and Palmer, A.R., 1961, Revision of stratigraphic nomenclature of Cambrian rocks, Nevada Test Site and vicinity, Nevada: U.S. Geological Survey Professional Paper 424-C, p. C100-C103.
- Barnes, Harley, and Poole, F.G., 1968, Regional thrust-fault system in Nevada Test Site and vicinity, *in* Eckel, E.B., ed., Nevada Test Site: Geological Society of America Memoir 110, p. 233-238.
- Barnes, Harley, et al., 1963b, U.S. Geological Survey investigations of Yucca Flat, Nevada Test Site: Geology of the Yucca Flat area: U.S. Geological Survey Technical Letter NTS-45, Part A.
- Barnes, M.G., Giacomini, J.J., Reiman, R.T., and Elliot, Bertrand, 1980, NTS radiological assessment project: results for Frenchman Lake region of Area 5: Desert Research Institute Report 45017 [NVO/1253-17]
- Barnes, W., and Hoover, D.D., 1977, Preliminary lithologic log of drill hole UCE-20, Hot Creek Valley, Nye County, Nevada: U.S. Geological Survey Report USGS-474-259 [Central Nevada-15, 1968]
- Barnhard, T.P., 1991
see Anderson, R.E., and Barnhard, T.P., 1991
- Barosh, P.J., 1967, Preliminary geologic section from Pahute Mesa, Nevada Test Site to Enterprise, Utah: U.S. Geological Survey Report USGS-474-25 [NTS-207]
- Barosh, P.J., 1968, Relationship of explosion-produced fracture patterns to geologic structure in Yucca Flat, Nevada Test Site, *in* Eckel, E.B., ed., Nevada Test Site: Geological Society of America, Memoir 110, p. 199-217.
- Barr, G.E., 1985, Reduction of the well test data for test well USW h-1, adjacent to NTS, Nye County, Nevada: Sandia National Laboratories Report SAND84-0637.
- Barton, C.A., Zoback, M.D., Moos, Daniel, 1995, Fluid flow along potentially active faults in crystalline rock: Geology (Boulder), v. 23, no. 8, p. 683-686.
- Barton, C.C., 1986, Fracture network flow, *in* Carter, L.M.H., ed., USGS research on energy resources, 1986: Program and abstracts: U.S. Geological Survey Circular 974, p. 4-5.
- Basham, P.W., 1970, Seismic magnitudes of high-yield underground explosions: Canadian Journal of Earth Sciences, v. 7, no. 2, pt. 1, p. 531-534.
- Bass, R.C., 1981
see Smith, C.W., and Bass, R.C., 1981
- Bateman, R.L., Mindling, A.L., and Naff, R.L., 1974, Development and management of ground water in relation to preservation of desert pupfish in Ash Meadows, southern Nevada: Desert Research Institute Report 42017.
- Bateman, R.L., Mindling, A.L., Naff, R.L., and Joung, H.M., 1972, Development and management of ground water and related environmental factors in arid alluvial and carbonate basins in southern Nevada: Desert Research Institute Report 41018.

Bath, G.D., 1967, Aeromagnetic anomalies, related to remanent magnetism in volcanic rock, Nevada Test Site: U.S. Geological Survey Open-File Report [NTS-3]

Bath, G.D., 1968, Aeromagnetic anomalies related to remanent magnetism in volcanic rock, Nevada Test Site, *in* Eckel, E.B., ed., Nevada Test Site: Geological Society of America Memoir 110, p. 135-146.

Bath, G.D., 1975
see Carr, W.J., et al., 1975

Bath, G.D., 1982
see Kane, M.F., et al., 1982

Bath, G.D., 1984
see Scott, R.B., et al., 1984

Bath, G.D., Dixon, G.L., and Rosenbaum, J.G., 1982, Relation of aeromagnetic anomalies to faulted volcanic terrains at the Nevada Test Site [abs.]: Abstracts with Programs--Geological Society of America, v. 14, no. 6, p. 302.

Bath, G.D., Jahren, C.E., Rosenbaum, J.G., and Baldwin, M.J., 1983a, Magnetic investigations, *in* Geologic and geophysical investigations of Climax Stock intrusive: U.S. Geological Survey Open-File Report 83-377, p. 40-75.

Bath, G.D., Jahren, C.E., Rosenbaum, J.G., Baldwin, M.J., and Dixon, G.L., 1983b, Investigation of a potential nuclear waste repository site, Nevada Test Site: U.S. Geological Survey Professional Paper 1375.

Bauer, S.J., 1991
see Johnson, R.L., and Bauer, S.J., 1991

Bayer, K.C., 1974, Seismic data report Southern Nevada region, Dec. 1971-Dec. 1972 [abs.]: International Journal of Rock Mechanics and Mineral Science, v. 11, no. 3, p. 55a.

Bayhurst, B.P., 1979a
see Erdal, B.R., et al., 1979

Bayhurst, B.P., 1979b
see Wolfsberg, Kurt, et al., 1979

Bayhurst, B.P., 1980
see Vine, E.N., et al., 1980

Bayhurst, B.P., 1981
see Wolfsberg, Kurt, et al., 1981

Bayhurst, B.P., 1982
see Norris, A.E., et al., 1982

Bedinger, M.S., Langer, W.H., and Moyle, W.R., 1984, Maps showing ground water units and withdrawal, Basin and Range Province, southern California: U.S. Geological Survey Water-Resources Investigations Report 83-4116-A.

Bedinger, M.S., Langer, W.H., and Reed, J.E., 1989a, Ground-water hydrology of the Death Valley region, Nevada and California, *in* Bedinger, M.S., Sargent, K.A., and Langer, W.H., Studies of geology and hydrology in the Basin and Range Province, southwestern United States, for isolation of high-level radioactive waste--characterization of the

Death Valley Region, Nevada and California: U.S. Geological Survey Professional Paper 1370-F, p. 28-35.

Bedinger, M.S., Langer, W.H., and Reed, J.E., 1989b, Hydraulic properties of rocks in the Basin and Range Province, *in* Bedinger, M.S., Sargent, K.A., Langer, W.H., Sherman, F.B., Reed, J.E., and Brady, B.T., eds, Studies of geology and hydrology in the Basin and Range Province, southwestern United States, for isolation of high-level radioactive waste--basis of characterization and evaluation: U.S. Geological Survey Professional Paper 1370-A, p. 16-18.

Bedinger, M.S., Sargent, K.A., Langer, W.H., 1989c, Studies of geology and hydrology in the Basin and Range Province, southwestern United States, for isolation of high-level radioactive waste--characterization of the Death Valley region, Nevada and California: U.S. Geological Survey Professional paper 1370-F.

Beetem, W.A., 1962

see Goldberg, M.C., et al., 1962

Beetem, W.A., 1965

see Robinson, B.P., and Beetem, W.A., 1965

Beetem, W.A., 1967

see Robinson, B.P., et al., 1967

Beetem, W.A., 1969a

see Grove, D.B., et al., 1969

Beetem, W.A., 1969b

see Robinson, B.P., et al., 1969

Beetem, W.A., 1971

see Grove, D.B., and Beetem, W.A., 1971

Beetem, W.A., 1975

see Robinson, B.P., and Beetem, W.A., 1975

Beetem, W.A., Angelo, C.G., and Robinson, B.P., 1965, Quality of water studies at Bilby site: U.S. Geological Survey Technical Letter NTS-113.

Beetem, W.A., Janzer, V.J., Angelo, C.G., and Goldberg, M.C., 1962, Summary of distribution coefficients for fission products between ground water and granitic rocks, Climax Stock, Nevada Test Site: U.S. Geological Survey Technical Letter NTS-13.

Beiriger, J.M., Durham, W.B., and Ryerson, F.J., 1985, Physical and chemical changes to rock near electrically heated boreholes at spent fuel test-Climax: Lawrence Livermore National Laboratory Report UCID-20412.

Beiriger, W.B., 1984

see Knauss, K.G., and Beiriger, W.B., 1984

Bell, C.A., 1983

see Howard, N.W., and Bell, C.A., 1983

Bell, C.A., 1984

see Howard, N.W., and Bell, C.A., 1984

Bell, E.J., and Larson, L.T., 1982a, Annotated bibliography: Overview of energy and mineral resources for the Nevada Nuclear Waste Storage Investigations, Nevada Test Site, Nye County, Nevada: U.S. Dept. of Energy Report NVO-251.

Bell, E.J., and Larson, L.T., 1982b, Overview of energy and mineral resources for the Nevada Nuclear Waste Storage Investigations, Nevada Test Site, Nye County, Nevada: U.S. Dept. of Energy Report NVO-250.

Bell, J.W., 1995

see Peterson, F.F., et al., 1995

Bell, J.W., Peterson, F.F., Dorn, R.I., Ramelli, A.R., and Ku, T.L., 1991, Late Quaternary surficial geology in Crater Flat, Yucca Mountain, southern Nevada: Abstracts with Programs--Geological Society of America, v. 23, no. 2, p. 6.

Benjamin, T.M., 1995, Selected NTS underground inventory data: Los Alamos National Laboratory Memorandum CST-11: v-95-11.

Bennett, T.J., 1981

see Murphy, J.R., and Bennett, T.J., 1981

Bennett, T.J., and Murphy, J.R., 1983, The use of regional phase measurements to discriminate events in the vicinity of NTS: Earthquake Notes, v. 54, no. 3, p. 11.

Bennett, T.J., and Murphy, J.R., 1986, Analysis of seismic discrimination capabilities using regional data from western United States events: Bulletin of the Seismological Society of America, v. 76, no. 4, p. 1069-1086.

Benson, L.V., 1976, Mass transport in vitric tuffs of Rainier Mesa, Nye County, Nevada: Desert Research Institute Report 45010 [NVO/1253-10]

Benson, L.V., 1980

see White, A.F., et al., 1980

Benson, L.V., 1991

see McKinley, P.W., et al., 1991

Benson, L.V., and Hostetler, S.W., 1991, Paleohydrology of the Great Basin, in Trask, N.J., and Stevens, P.R., comps., U.S. Geological Survey research in radioactive waste disposal; fiscal years 1986-1990: U.S. Geological Survey Water-Resources Investigations Report 91-4084, p. 7-9.

Benson, L.V., and Klieforth, H., 1989, Stable isotopes in precipitation and ground water in the Yucca Mountain region, southern Nevada: Paleoclimatic implications, in Peterson, D.H., ed., Aspects of climate variability in the Pacific and the western Americas: American Geophysical Union Geophysical Monograph 55, p. 41-59.

Benson, L.V., and McKinley, P.W., 1985, Chemical composition of ground water in the Yucca Mountain area, Nevada, 1971-1984: U.S. Geological Survey Open-File Report 85-484.

Benson, L.V., Robison, J.H., Blankennagel, R.K., and Ogard, A.E., 1983, Chemical composition of ground water and the locations of permeable zones in the Yucca Mountain area: U.S. Geological Survey Open-File Report 83-854.

Bentle, H.W., 1987

see Norris, A.E., et al., 1987

Bentley, C.B., 1984, Geohydrologic data for Test Well USW G-4, Yucca Mountain area, Nye County, Nevada: U.S. Geological Survey Open-File Report 84-063.

Bentley, C.B., Robison, J.H., and Spengler, R.W., 1983, Geohydrologic data for Test Well USW H-5, Yucca Mountain area, Nye County, Nevada: U.S. Geological Survey Open-File Report 83-853.

Benz, H.M., 1990
see Zandt, George, et al., 1990

Berger, J., 1989
see Gurrola, Harold, et al., 1989

Bergquist, J.R., 1993
see McKee, E.H., and Bergquist, J.R., 1993

Bevier, M.L., 1979
see Heiken, G.H., and Bevier, M.L., 1979

Bhattacharyya, B.K., 1981
see Kane, M.F., et al., 1981

Bice, T., 1993
see Meremonte, M.E., et al., 1993

Bierschenk, W.H., 1989
see Raymond, J.R., et al., 1989

Bigelow, R.C., 1973
see Eberle, W.R., and Bigelow, R.C., 1973

Bird, J.W., 1984
see French, R.H., et al., 1984

Bisdorf, R.J., 1979
see Zohdy, A.A.R., and Bisdorf, R.J., 1979

Bisdorf, R.J., 1980
see Anderson, L.A., et al., 1980

Bish, D.L., 1981a, Detailed mineralogical characterization of the Bullfrog and Tram members in USW-G1, with emphasis on clay mineralogy: Los Alamos National Laboratory Report LA-9021-MS.

Bish, D.L., 1981b
see Carroll, P.I., et al., 1981

Bish, D.L., 1991, Determination of paleogeothermal and paleohydrologic conditions in silicic tuffs from illite/smectite mineralogy: Program and Abstracts--Annual Clay Minerals Conference, v. 28, p. 14.

Bish, D.L., and Semarge, R.E., 1982, Mineralogic variations in a silicic tuff sequence; evidence for diagenetic and hydrothermal reactions, *in* Mumpton, F.A., ed., Circum-Pacific Clay Minerals Society, nineteenth annual meeting: Abstract volume--annual meeting, Circum-Pacific Clay Minerals Society, v. 19, p. 42.

Bish, D.L., Vaniman, D.T., and Aronson, J.L., 1990, Interpretation of paleohydrologic and paleothermal conditions in a volcanic sequence using mineralogical and K/Ar dating information: Abstracts with Programs--Geological Society of America, v. 22, no. 7, p. 57.

Bish, D.L., Vaniman, D.T., Byers, F.M., Jr., and Broxton, D.E., 1982, Summary of the mineralogy-petrology of tuffs of Yucca Mountain and the secondary-phase thermal stability in tuffs: Los Alamos National Laboratory Report LA-9321-MS.

Bjornstad, B.N., 1993
see Kieft, T.L., et al., 1993

Blacic, J.D., 1993, Hydration swelling effects on time-dependent deformation of zeolitized tuff: Journal of Geophysical Research, B, Solid Earth and Planets, v. 98, no. 9, p. 15,909-15,917.

Black, A.D., 1971
see Green, S.J., et al., 1971

Black, R.A., 1961
see Roller, J.C., and Black, R.A., 1961

Black, R.A., 1962
see Twenhofel, W.S., et al., 1962

Black, S.C., 1991
see McDowell, E.M., and Black, S.C., 1991

Black, S.C., Glines, W.M., and Townsend, Y.E., eds., 1995, U.S. Department of Energy Nevada Field Office Annual Site Environmental Report - 1994: U.S. Dept. of Energy Report DOE/NV/11432-175.

Black, S.C., Latham, A.R., and Townsend, Y.E., eds., 1992, U.S. Department of Energy Nevada Field Office Annual Site Environmental Report - 1991: U.S. Dept. of Energy Report DOE/NV/10630-33.

Black, S.C., Latham, A.R., and Townsend, Y.E., eds., 1993, U.S. Department of Energy Nevada Field Office Annual Site Environmental Report - 1992: U.S. Dept. of Energy Report DOE/NV/10630-66.

Black, S.C., Latham, A.R., and Townsend, Y.E., eds., 1994, U.S. Department of Energy Nevada Field Office Annual Site Environmental Report - 1993: U.S. Dept. of Energy Report DOE/NV/11432-123.

Blackmon, P.D., 1977
see Quinlivan, W.D., et al., 1977

Blackmon, P.D., 1985
see Quinlivan, W.D., et al., 1985

Blandford, R.R., 1975, Use of source-region-station time corrections at NTS for depth estimation: Teledyne Geotech Report SDAC-TR-75-4.

Blandford, R.R., 1987
see Gupta, I.N., and Blandford, R.R., 1987

Blankennagel, R.K., 1965, Results of hydraulic testing of UE19gs exploratory hole: U.S. Geological Survey Technical Letter Special Studies-I-27-Supplement 1.

Blankennagel, R.K., 1967, Hydraulic testing techniques of deep drill holes at Pahute Mesa, Nevada Test Site: U.S. Geological Survey Open-File Report [Special Studies-I-1]

Blankennagel, R.K., 1968, Geophysical logging and hydraulic testing, Pahute Mesa, Nevada Test Site: Ground Water, v. 6, no. 4, p. 24-31.

Blankennagel, R.K., 1974, Hydrologic investigations of the Silent Canyon Caldera, southeast Nevada, USA [abs.]: International symposium on hydrology of volcanic rocks, Lanzarote, Canary Islands, March 4-7, abstracts, p. 20-21.

Blankennagel, R.K., 1983
see Benson, L.V., et al., 1983

Blankennagel, R.K., 1984
see Waddell, R.K., et al., 1984

Blankennagel, R.K., Fenske, P.R., and Ramspott, L.D., 1986, Radionuclide migration program strategy document: U.S. Dept. of Energy Report NVO-298.

Blankennagel, R.K., and Weir, J.E., 1966, Summary of ground water data pertinent to underground construction and to water-supply development, Pahute Mesa, Nevada Test Site: U.S. Geological Survey Technical Letter Special Studies-I-27, Supplement 2.

Blankennagel, R.K., and Weir, J.E., 1972, Geohydrology of the eastern part of Pahute Mesa, Nevada Test Site, Nye County, Nevada: U.S. Geological Survey Open-File Report.

Blankennagel, R.K., and Weir, J.E., 1973, Geohydrology of the eastern part of Pahute Mesa, Nevada Test Site, Nye County, Nevada: U.S. Geological Survey Professional Paper 712-B.

Blankennagel, R.K., Young, R.A., Cooper, J.B., and Whitcomb, H.A., 1964, Summary of ground water data pertinent to underground construction and to water-supply development, Pahute Mesa, Nevada Test Site: U.S. Geological Survey Technical Letter Special Studies-I-27.

Blanton, J.O., 1992, Nevada Test Site flood inundation study: part of U.S. Geological Survey flood potential and debris hazard study, Yucca Mountain Site for USDOE, Office of Civilian Radioactive Waste Management: U.S. Dept. of Energy Report DOE/NV/10874-T1.

Bliss, W.A., and Dunn, L., 1971, Measurement of plutonium in soil around the Nevada Test Site, in Proceedings of environmental plutonium symposium, Los Alamos, New Mexico, Aug. 4-5, 1971, p. 89-92.

Blout, D.O., 1993a
see Detty, T.E., et al., 1993

Blout, D.O., 1993b
see Ginanni, J.M., et al., 1993

Blout, D.O., 1994a
see Istok, J.D., et al., 1994

Blout, D.O., 1994b
see Sully, M.J., et al., 1994

Blout, D.O., Zukosky, K.A., and Donnelson, K.D., 1994, Hydrogeologic characterization data from the Area 5

shallow soil trenches, Nevada Test Site, Nye County, Nevada: U.S. Dept. of Energy Report DOE/NV/11432-169.

Blume, J.A., 1970, Seismic signal and structural response, *in* Weaver, L.E., ed., Education for peaceful uses of nuclear explosives: University of Arizona Press, p. 149-171.

Board, M.P., 1985

see Hardin, E.L., et al., 1985

Board, M.P., 1985

see Zimmerman, R.M., et al., 1985

Boardman, C.R., 1966, Some characteristics of the Hardhat chimney and surrounding wall rock: Lawrence Livermore Laboratory Report UCRL-50177.

Boardman, C.R., 1970, Engineering effects of underground nuclear explosives, *in* Symposium on engineering with nuclear explosives, Las Vegas, Nev., proceedings: NTIS report CONF-700101, p. 43-67.

Boardman, C.R., Meyer, G.L., and Rabb, D.D., 1966, Macrodeformation resulting from the Handcar event: Lawrence Livermore Laboratory Report UCRL-50149.

Boardman, C.R., Rabb, D.D., and McArthur, R.D., 1964, Contained nuclear detonations in four media; geological factors in cavities and chimney formations, *in* Engineering with nuclear explosives: Proceedings of the 3rd Plowshare symposium: U.S. Atomic Energy Commission Report TID-7695, p. 109-125.

Boardman, C.R., and Skrove, J., 1966, Distribution in fracture permeability of a granite rock mass following a contained nuclear explosion: Journal of Petroleum Technology, v. 18, p. 629-623.

Bochicchio, Regina, 1991, Geophysical modeling of the static water level: Desert Research Institute Report 45080 [DOE/NV/10845-5]

Bodvarsson, G.S., 1991

see Zimmerman, R.W., et al., 1991

Bond, W.D., and Clark, W.E., 1959, Leaching of Rainier debris: Oak Ridge National Laboratory Report CF-59-4-30.

Bond, W.D., and Clark, W.E., 1960, Leaching of Tamalpais debris: Oak Ridge National Laboratory Report ORNL-2810.

Bonner, B.P., 1980

see Costantino, M.S., and Bonner, B.P., 1980

Borg, I.Y., 1970

see Rawson, D.E., and Borg, I.Y., 1970

Borg, I.Y., 1972, Extent of pervasive fracturing around underground nuclear explosions: Lawrence Livermore Laboratory Report UCRL-73831.

Borg, I.Y., 1974, Comparison of shock effects in granitic rock recovered from the Monique event, Algeria, and the Piledriver event, Nevada Test Site [abs.]: International Journal of Rock Mechanics and Mineral Science, v. 11, no. 3, p. 52a.

Borg, I.Y., 1977

see Ramspott, L.D., and Borg, I.Y., 1977

Borg, I.Y., Stone, Y.R., Levy, H.B., and Ramspott, L.D., 1976a, Information pertinent to the migration of radionuclides in groundwater at the Nevada Test Site; Part 1: Review and analysis of existing information: Lawrence Livermore Laboratory Report UCRL-52078.

Borg, I.Y., Stone, Y.R., Levy, H.B., and Ramspott, L.D., 1976b, Information Pertinent to the Migration of Radionuclides in Ground Water at the Nevada Test Site; Part 2: Annotated bibliography: Lawrence Livermore National Laboratory Report UCRL-52078, Pt. 2.

Borg, I.Y., Stone, R., Levy, H.B., and Ramspott, L.D., 1977, Movement of radioactivity deposited underground at the U.S. ERDA Nevada Test Site, in Transfer of nuclear technology conference, Shiraz, Iran, 10 April 1977: Lawrence Livermore Laboratory report UCRL-78670 (also U.S. Energy Research and Development Report CONF-770428-1).

Bostick, K.V., Simanton, J.R., Lane, L.J., Hakonson, T.E., 1983, Preliminary results of erosion and contaminant transport research on the Nevada Test Site: Los Alamos National Laboratory Report LA-UR-84-1000.

Botinelly, Theodore, 1959
see Diment, W.H., et al., 1959

Botinelly, Theodore, 1960
see Wilmarth, V.R., et al., 1960

Boucher, G.W., 1973, Local seismic phenomena in the first three seconds after underground nuclear explosions: Journal of Geophysical Research, v. 78, no. 8, p. 1348-1360.

Boucher, M.S., 1994a, Precision and accuracy of manual water-level measurements taken in the Yucca Mountain area, Nye County, Nevada, 1988-90: U.S. Geological Survey Water-Resources Investigations Report 93-4025.

Boucher, M.S., 1994b, Water levels in wells J-11 and J-12, 1989-91, Yucca Mountain area, Nevada: U.S. Geological Survey Open-File Report 94-303.

Boughton, C.J., 1986, Integrated geochemical and hydraulic analyses of Nevada Test Site ground water systems: University of Nevada, Reno unpublished master's thesis.

Boughton, C.J., Jacobson, R.L., and Hess, J.W., 1984, Regional groundwater characteristics determined from geochemistry and environmental isotopes at the Nevada Test Site: Abstracts with Programs--Geological Society of America, v. 16, no. 6, p. 451.

Bowers, W.E., 1964, Outline of the geology of the U12i and U12i.01 tunnels, and lithology of the U12i.01 drill hole, Nevada Test Site: U.S. Geological Survey Open-File Report [TEI-842]

Bowles, W.A., 1966
see Hunt, C.B., et al., 1966

Boyd, O.S., Wagoner, J.L., and Carlson, R.C., 1992, Site characterization report for HRMP monitoring well UE20bh-1, Nye County, Nevada Test Site: Lawrence Livermore National Laboratory Report UCRL-ID-112027.

Bracken, R.E., 1983
see Kane, M.F., and Bracken, R.E., 1983

- Braden, A.K., 1995
see Titus, A.L., et al., 1995
- Bradley, B.R., 1977
see Navarro, Richard, et al., 1977
- Brady, D.N., 1977
see Essington, E.H., et al., 1977
- Braun, R.L., 1970
see Ramspott, L.D., et al., 1970
- Brethauer, G.E., 1979, Preliminary investigation of physical-properties data from Pahute Mesa, Nevada Test Site, using the GRASP storage and retrieval system: U.S. Geological Survey Report USGS-474-307 [Special Studies-96]
- Brethauer, G.E., 1983
see Twenhofel, W.S., et al., 1983
- Brethauer, G.E., Healey, D.L., and Miller, C.H., 1981, Statistical analysis of the gravity method of calculating the depth to the pre-Cenozoic surface in Yucca Flat, Nevada Test Site: *Geophysical Prospecting*, v. 29, no. 1, p. 31-38.
- Brethauer, G.E., Magner, J.E., and Miller, D.R., 1980a, Statistical evaluation of physical properties in Area 12, Nevada Test Site, using the USGS/DNA storage and retrieval system: U.S. Geological Survey Report USGS-474-309 [Special Projects-43]
- Brethauer, G.E., Muller, D.C., and Kibler, J.E., 1980b, Preliminary analysis of physical-properties data characteristics of Tunnel Beds 3 and 4 in a part of Areas 4 and 7, Nevada Test Site: U.S. Geological Survey Report USGS-474-310 [Special Projects-44]
- Brikowski, T.H., 1991a, Estimation of hydrologic transport of radionuclides from below water table tests using analytic models, *in* Proceedings of the sixth symposium on containment of underground nuclear explosions, September 24-27, 1991, v. 2: NTIS Report CONF-9109114, p. 176-200.
- Brikowski, T.H., 1991b, The hydrology of underground nuclear tests; the effect of collapse-chimney formation: Desert Research Institute Report 45090.
- Brikowski, T.H., 1992, Estimates of potential radionuclide migration at the Bullion site: Desert Research Institute Report 45097 [DOE/NV/10845-15]
- Brikowski, T.H., 1993a, A conceptual model and preliminary estimate of potential tritium migration from the Benham (U20c) site, Pahute Mesa, Nevada Test Site: Desert Research Institute Report 45109 [DOE/NV/10845-25]
- Brikowski, T.H., 1993b
see Gardner, C.G., and Brikowski, T.H., 1993
- Brikowski, T.H., 1995
see Hershey, R.L., and Brikowski, T.H., 1995
- Brikowski, T.H., Chapman, J.B., Lyles, B.F., and Hokett, S.L., 1993, Origin of elevated water levels encountered in Pahute Mesa emplacement boreholes: preliminary investigation: Desert Research Institute Report 45123 [DOE/NV/10845-43]

- Brockman, F.J., 1993
see Kieft, T.L., et al., 1993
- Brockman, S.R., Espinosa, A.F., Michael, J.A., and Navarro, Richard, 1984, Near-field strong-motion data from nuclear explosive sources: U.S. Geological Survey Open-File Report 84-834.
- Broker, M.M., 1982
see Hoover, D.B., et al., 1982
- Brooks, J., 1992
see Cranswick, Edward, et al., 1992
- Brooks, J., 1993
see Meremonte, M.E., et al., 1993
- Broxton, D.E., 1982
see Bish, D.L., et al., 1982
- Broxton, D.E., 1984
see Ander, H.D., et al., 1984
- Broxton, D.E., 1988
see Warren, R.G., et al., 1988
- Broxton, D.E., 1989
see Mattson, S.R., et al., 1989
- Broxton, D.E., 1990
see Sawyer, D.A., et al., 1990
- Broxton, D.E., 1994
see Sawyer, D.A., et al., 1994
- Broxton, D.E., Vaniman, D.T., Caporuscio, F.A., Arney, B., and Heiken, G.H., 1982, Detailed petrographic descriptions and microprobe data for drill holes USW-G2 and UE25b-1H, Yucca Mountain, Nevada: Los Alamos National Laboratory Report LA-9324-MS.
- Bruckheimer, Laura, 1983
see Lobmeyer, D.H., et al., 1983
- Bruckheimer, Laura, 1983
see Rush, F.E., et al., 1983
- Brune, J.N., 1970
see Anderson, D.L., et al., 1970
- Brune, J.N., 1993
see Smith, K.D., and Brune, J.N., 1993
- Buono, Anthony, 1989
see Mattson, S.R., et al., 1989

- Bryant, E.A., 1992a, The Cambrian migration experiment: a summary report: Los Alamos National Laboratory Report LA-12335-MS.
- Bryant, E.A., 1992b, Colloid research at the Nevada Test Site: Los Alamos National Laboratory Report LA-12301-MS.
- Bryson, R.L., 1972
see Froula, N.H., et al., 1972
- Buchholtz-ten Brink, Marilyn, Martin, Susan, Viani, B.E., Gerlach, D.C., and Rego, J.H., 1990, Characterization and transport of colloidal particles in groundwater from the Nevada Test Site: EOS, Transactions, American Geophysical Union, v. 71, no. 43, p. 1306.
- Buchholtz-ten Brink, Marilyn, Martin, Susan, Viani, B.E., Smith, D.K., and Phinney, Douglas, 1993, Heterogeneities in radionuclide transport: Pore size, particle size, and sorption, *in* McCarthy, J.F., and Wobber, F.J., eds., Manipulation of groundwater colloids for environmental restoration: Lewis Publishers, p. 203-210.
- Bucknam, R.C., 1969, Geologic effects of the Benham underground nuclear explosion, Nevada Test Site: Bulletin of Seismological Society of America, v. 59, no. 6, p. 2209-2220.
- Bucknam, R.C., 1973, Some factors relevant to the determination of in situ stress by analysis of geological and geophysical data: U.S. Geological Survey Report USGS-474-168 [NTS-247].
- Bucknam, R.C., 1983, Compilation of selected faults and lineaments that may be relevant to a study of seismic activity in southern Nevada and part of adjacent California: U.S. Geological Survey Report USGS-474-11 [NTS-206, 1969]
- Bucknam, R.C., Dickey, D.D., and McKeown, F.A., 1970, Near-source ground deformation from the Hanford nuclear explosion [abs.]: Abstracts with Programs--Geological Society of America, v. 2, no. 7, p. 506.
- Buddemeier, R.W., 1986a, Groundwater transport of radionuclides in colloidal form: EOS, Transactions, American Geophysical Union, v. 67, no. 44, p. 955.
- Buddemeier, R.W., 1986b
see Silva, R.J., et al., 1986
- Buddemeier, R.W., 1987
see Silva, R.J., et al., 1987
- Buddemeier, R.W., 1988a, Hydrology and Radionuclide Migration Program 1985-1986 Progress Report: Lawrence Livermore National Laboratory Report UCRL-53779.
- Buddemeier, R.W., 1988b
see Silva, R.J., et al., 1988
- Buddemeier, R.W., Finkel, R.C., Marsh, K.V., Ruggieri, M.R., and Rego, J.H., 1989, Hydrology and radionuclide migration at the Nevada Test Site: Lawrence Livermore National Laboratory Report UCRL-102033.
- Buddemeier, R.W., Finkel, R.C., Marsh, K.V., Ruggieri, M.R., Rego, J.H., Silva, R.J., 1991, Hydrology and radionuclide migration at the Nevada Test Site: Radiochimica Acta, v. 52/53, p. 275-282.
- Buddemeier, R.W., and Hunt, J.R., 1988, Transport of colloidal contaminants in groundwater: radionuclide migration

at the Nevada Test Site: Applied Geochemistry, v.3, no. 5, p. 535-548.

Buddemeier, R.W., and Isherwood, D.J., 1985, Radionuclide Migration Project 1984 Progress Report: Lawrence Livermore National Laboratory Report UCRL-53628.

Buddemeier, R.W., and Rego, J.H., 1985, Colloidal associations of radionuclides in groundwater: EOS, Transactions, American Geophysical Union, v. 66, no. 46, p. 888.

Buddemeier, R.W., Ruggieri, M.R., and Rego, J.H., 1984, Studies of radionuclide migration at the Nevada Test Site in Nuclear Chemistry Division FY 84 Annual Report: Lawrence Livermore National Laboratory Report UCAR 10062-84/1, p. 4-21.

Buje, C.G., Poetzi, K.G., Shakal, A.F., and Willis, D.E., 1973, Seismicity of the Nevada Test Site and adjacent areas [abs.]: Earthquake Notes, v. 44, no. 1-2, p. 62.

Bullard, K.L., 1994, Nevada Test Site probable maximum flood study, part of U.S. Geological Survey flood potential and debris hazard study, Yucca Mountain Site for U.S. Department of Energy, Office of Civilian Radioactive Waste Management: U.S. Dept. of Energy Report DOE/NV/10874-T2.

Bunker, C.M., 1959

see Diment, W.H., et al., 1959

Bunker, C.M., 1961, Gamma-radioactivity investigations at the Nevada Test Site, Nye and Lincoln counties, Nevada: U.S. Geological Survey Technical Elements Investigations Report 778.

Bunker, C.M., 1965, Subsurface measurements of natural gamma radioactivity, Nevada Test Site and vicinity, Nye, Lincoln, and Clark counties, Nevada: U.S. Geological Survey Report TEI-858.

Bunker, C.M., Diment, W.H., and Wilmarth, V.R., 1960, Distribution of gamma radioactivity, radioactive glass, and temperature surrounding the site of the Rainier underground nuclear explosion, Nevada, in U.S. Geological Survey Professional Paper 400-B, p. B151-B155.

Bunker, C.M., and Shutler, M.D., 1962a, Gamma-radioactivity investigations at the Nevada Test Site, Nye County, Nevada (Interim Report, February 1960 to July 1961): U.S. Geological Survey Open-File Report [TEI-832]

Bunker, C.M., and Shutler, M.D., 1962b, Investigations at the Nevada Test Site, Nye County, Nevada (Interim report, February 1960 to July 1961): U.S. Geological Survey Report TEI-832.

Burbey, T.J., 1984a, Three dimensional numerical simulation of tritium and chloride-36 migration: University of Nevada, Reno unpublished master's thesis.

Burbey, T.J., 1984b

see Wheatcraft, S.W., and Burbey, T.J., 1984

Burbey, T.J., 1995

see Prudic, D.E., et al., 1995

Burbey, T.J., and Prudic, D.E., 1991, Conceptual evaluation of regional ground-water flow in the carbonate-rock province of the Great Basin, Nevada, Utah, and adjacent states: U.S. Geological Survey Professional Paper 1409-D.

Burbey, T.J., and Wheatcraft, S.W., 1986, Tritium and chlorine-36 migration from a nuclear explosion cavity: Desert Research Institute Report 45050 [DOE/NV/10384-09]

- Burchfiel, B.C., 1964, Precambrian and paleozoic stratigraphy of the Specter Range quadrangle, Nye County, Nevada: AAPG Bulletin, v. 48, p. 40-56.
- Burchfiel, B.C., 1970
see Sargent, K.A., et al., 1970
- Burckle, Lloyd, 1995
see Quade, J.G., et al., 1995
- Burdick, L.J., 1985
see Barker, J.S., et al., 1985
- Burdick, L.J., 1991a
see Barker, J.S., et al., 1991
- Burdick, L.J., 1991b
see Helmberger, D., et al., 1991
- Burdick, L.J., Saikia, C.K., and Smith, N.F., 1991, P_n for the Nevada Test Site, in Taylor, S.R., Patton, H.J., and Richards, P.G., eds., Explosion source phenomenology: American Geophysical Union Geophysical Monograph 65, p. 197-206.
- Burkhard, N.R., 1981, NTS seismic-reflection data and the problems thereof: Lawrence Livermore National Laboratory Report UCRL-86803.
- Burkhard, N.R., 1984, Applications of geophysical exploration techniques to structural interpretations at the Nevada Test Site: Abstracts with Programs--Geological Society of America, v. 16, no. 6, p. 459.
- Burkhard, N.R., 1986
see McArthur, R.D., and Burkhard, N.R., 1986
- Burkhard, N.R., 1987, Applications of vertical seismic profiling at NTS (Nevada Test Site): Lawrence Livermore National Laboratory Report UCRL-96347.
- Burkhard, N.R., 1989
see Hearst, J.R., and Burkhard, N.R., 1989
- Burkhard, N.R., and McArthur, R.D., 1985, Geologic and geophysical investigations of Mid Valley at the NTS (Nevada Test Site): Lawrence Livermore National Laboratory Report UCRL-93413.
- Burkhard, N.R., and Rambo, J.T., 1991, One plausible explanation for water mounding: Lawrence Livermore National Laboratory Report UCRL-JC-107004.
- Burkhardt, D.J., 1993a
see Ervin, E.M., et al., 1993
- Burkhardt, D.J., 1993b
see Luckey, R.R., et al., 1993
- Burkhardt, D.J., 1995a
see Lobmeyer, D.H., et al., 1995

- Burkhardt, D.J., 1995b
see O'Brien, G.M., et al., 1995
- Buscheck, T.A., 1985
see Daily, W.D., et al., 1985
- Buscheck, T.A., 1986
see Daily, W.D., et al., 1986
- Buscheck, T.A., 1987
see Daily, W.D., et al., 1987
- Bush, C.A., 1984
see Rosholt, J.N., et al., 1984
- Bush, C.A., 1985
see Rosholt, J.N., et al., 1985
- Butkovich, T.R., 1964, Calculation of the shock wave from an underground nuclear explosion in granite, *in* Engineering with nuclear explosives, April 21, 22, 23, 1964: Proceedings of the third Plowshare symposium: U.S. Atomic Energy Commission Report TID-7695, p. 37-49.
- Butkovich, T.R., 1979
see Ramspott, L.D., et al., 1979
- Butkovich, T.R., 1981, As-built mechanical and thermomechanical calculations of a spent-fuel test in Climax Stock granite: Lawrence Livermore National Laboratory Report UCRL-53198.
- Butters, S.W., 1971
see Green, S.J., et al., 1971
- Butters, S.W., 1973
see Green, S.J., et al., 1973
- Butters, S.W., 1978
see Gardiner, D.S., et al., 1978
- Butters, S.W., Gronseth, J.M., and Patterson, J.F., 1980, Material properties of Nevada Test Site tuff and grout: Terra Tek Report TR-80-35.
- Butters, S.W., Reid, R.J., Green, S.J., and Jones, A.H., 1973, Mechanical properties of Nevada Test Site tuffs from selected exploratory drill holes: Terra Tek Report TR-73-28.
- Byerlee, J.D., 1984a
see Moore, D.E., et al., 1984
- Byerlee, J.D., 1984b
see Morrow, C.A., and Byerlee, J.D., 1984
- Byerlee, J.D., 1986
see Moore, D.E., et al., 1986

Byerlee, J.D., Morrow, C.A., and Moore, D.E., 1983, Permeability and pore-fluid chemistry of the Bullfrog Tuff in a temperature gradient; summary of results: U.S. Geological Survey Open-File Report 83-475.

Byerly, P.E., 1959

see Diment, W.H., et al., 1959

Byers, F.M., Jr., 1959

see Diment, W.H., et al., 1959

Byers, F.M., Jr., 1961

see Barnes, Harley, and Byers, F.M., Jr., 1961

Byers, F.M., Jr., 1962a, Porosity, density, and water content data on tuff of the Oak Spring Formation from the U12e tunnel system, Nevada Test Site, Nevada: U.S. Geological Survey Open-File Report [TEI-811]

Byers, F.M., Jr., 1962b

see Barnes, Harley, et al., 1962

Byers, F.M., Jr., 1965a

see Barnes, Harley, et al., 1965

Byers, F.M., Jr., 1965b

see Christiansen, R.L., et al., 1965

Byers, F.M., Jr., 1965c

see Fernald, A.T., et al., 1965

Byers, F.M., Jr., 1966

see Miller, C.H., et al., 1966

Byers, F.M., Jr., 1968a

see Carr, W.J., et al., 1968

Byers, F.M., Jr., 1968b

see Ekren, E.B., et al., 1968

Byers, F.M., Jr., 1968c

see Noble, D.C., et al., 1968

Byers, F.M., Jr., 1968d

see Orkild, P.P., et al., 1968

Byers, F.M., Jr., 1969

see Christiansen, R.L., et al., 1969

Byers, F.M., Jr., 1970

see Marvin, R.F., et al., 1970

Byers, F.M., Jr., 1975

see Fernald, A.T., et al., 1975

Byers, F.M., Jr., 1977a

- see Christiansen, R.L., et al., 1977
- Byers, F.M., Jr., 1977b
see Quinlivan, W.D., and Byers, F.M., Jr., 1977
- Byers, F.M., Jr., 1982
see Bish, D.L., et al., 1982
- Byers, F.M., Jr., 1984a
see Ander, H.D., et al., 1984
- Byers, F.M., Jr., 1984b
see Carr, W.J., et al., 1984
- Byers, F.M., Jr., 1984c
see Warren, R.G., et al., 1984
- Byers, F.M., Jr., 1985a, Petrochemical variation of Topopah Spring Tuff matrix with depth (stratigraphic level), drill hole USW G-4, Yucca Mountain, Nevada: Los Alamos National Laboratory Report LA-10561-MS.
- Byers, F.M., Jr., 1985b
see Dockery, H.A., et al., 1985
- Byers, F.M., Jr., 1985c
see Warren, F.G., et al., 1985
- Byers, F.M., Jr., 1986
see Carr, W.J., et al., 1986
- Byers, F.M., Jr., 1988
see Warren, R.G., et al., 1988
- Byers, F.M., Jr., 1989
see McKague, H.L., et al., 1989
- Byers, F.M., Jr., and Barnes, Harley, 1967, Geologic map of the Paiute Ridge quadrangle, Nye and Lincoln counties, Nevada: U.S. Geological Survey Quadrangle Map GQ-577, scale 1:24,000.
- Byers, F.M., Jr., Barnes, Harley, Poole, F.G., and Ross, R.J., Jr., 1961, Revised subdivision of Ordovician system at the Nevada Test Site and vicinity, Nevada: U.S. Geological Survey Professional Paper 424-C, p. C106-C110.
- Byers, F.M., Jr., Carr, W.J., Christiansen, R.L., Lipman, P.W., Orkild, P.P., and Quinlivan, W.D., 1976a, Geologic map of the Timber Mountain Caldera area, Nye County, Nevada: U.S. Geological Survey Miscellaneous Investigations Series Map I-891, scale 1:48,000.
- Byers, F.M., Jr., Carr, W.J., and Orkild, P.P., 1986, Calderas of southwestern Nevada; evolution of understanding, 1960-1986: EOS, Transactions, American Geophysical Union, v. 67, no. 44, p. 1260.
- Byers, F.M., Jr., Carr, W.J., Orkild, P.P., Quinlivan, W.D., and Sargent, K.A., 1976b, Volcanic suites and related cauldrons of Timber Mountain-Oasis Valley caldera complex, southern Nevada: U.S. Geological Survey Professional Paper 919.

Byers, F.M., Jr., Carr, W.J., Orkild, P.P., Scott, R.B., and Warren, R.G., 1983, Volcano-tectonic relations and some petrologic features of the Crater Flat Tuff, southwestern Nevada [abs.]: Abstracts with Programs--Geological Society of America, v. 15, no. 5, p. 280.

Byers, F.M., Jr., Christiansen, R.L., Lipman, P.W., Marvin, R.F., and Orkild, P.P., 1969, Cauldron collapse and resurgence of Paintbrush volcanic center, southern Nye County, Nevada [abs.]: Geological Society of America Abstracts for 1968, p. 493-494.

Byers, F.M., Jr., and Cummings, David, 1968, Geologic map of the Scrugham Peak quadrangle, Nye County, Nevada: U.S. Geological Survey Geologic Quadrangle Map GQ-695, scale 1:24,000. [TEI-849]

Byers, F.M., Jr., and Hazlewood, R.M., 1962, Summary of geology for two potential underground test sites in basaltic rocks, Nevada Test Site: U.S. Geological Survey Technical Letter NTS-15.

Byers, F.M., Jr., and Hazelwood, R.M., 1979, Summary of geology for two potential underground test sites in basaltic rocks, Nevada Test Site: U.S. Geological Survey Report USGS-474-304 [NTS-15, 1962]

Byers, F.M., Jr., and Hawkins, W.L., 1981, Geology of drill hole UE18t and Area 18, Timber Mountain caldera moat, Nevada Test Site, *with a section on* Geophysical logging, by D.C. Muller: U.S. Geological Survey Report USGS-474-312 [Special Studies-97]

Byers, F.M., Jr., and Miller, C.H., 1966, Geologic and geophysical log of the UE5k exploratory hole, Frenchman Flat, Nevada Test Site: U.S. Geological Survey Technical Letter dated August 29, 1966 [NTS-164]

Byers, F.M., Jr., Orkild, P.P., Carr, W.J., and Christiansen, R.L., 1964, Timber Mountain Caldera, Nevada Test Site and vicinity: a progress report [abs.]: EOS, Transactions American Geophysical Union. v. 44, p. 113. (also in Geological Society of America Special Paper 76, p. 267)

Byers, F.M., Jr., Orkild, P.P., Carr, W.J., and Quinlivan, W.D., 1968, Timber Mountain Tuff, southern Nevada, and its relation to cauldron subsidence, *in* Eckel, E.B., ed., Nevada Test Site: Geological Society of America Memoir 110, p. 87-97.

Byers, F.M., Jr., Rogers, C.L., Carr, W.J., and Luft, S.J., 1966, Geologic map of the Buckboard Mesa quadrangle, Nye County, Nevada: U.S. Geological Survey Quadrangle Map GQ-552, scale 1:24,000.

Campana, M.E., 1987a
see Feeney, T.A., et al., 1987

Campana, M.E., 1987b
see Pottorff, E.J., et al., 1987

Campana, M.E., 1992
see Sadler, W.R., et al., 1992

Campbell, K.W., 1980, Seismic hazard analysis for the NTS spent reactor fuel test site: Lawrence Livermore National Laboratory Report UCRL-15260.

Caporuscio, F.A., 1981
see Carroll, P.I., et al., 1981

Caporuscio, F.A., 1982
see Broxton, D.E., et al., 1982

- Caporuscio, F.A., 1984
see Warren, R.G., et al., 1984
- Cappon, J.P., 1983
see Connolly, J.R., et al., 1983
- Carder, D.S., 1969, Two unreversed seismic profiles; Nevada Test Site to the Pacific Ocean: a progress report [abs.]: *Earthquake Notes*, v. 40, no. 4, p. 16-17.
- Carder, D.S., 1970, Seismic ground effects from nuclear explosions, *in* *Engineering seismology; the works of man: Engineering Geology Case Histories*, no. 8, p. 11-17.
- Carilli, J.T., 1989
see Holloway, R.W., et al., 1989
- Carley, J.F., 1990
see Harrar, J.E., et al., 1990
- Carlson, J.E., 1978
see Stewart, J.H., and Carlson, J.E., 1978
- Carlson, R.C., 1979
see Ramspott, L.D., et al., 1979
- Carlson, R.C., 1992
see Boyd, O.S., et al., 1992
- Carlson, R.C., 1993
see Hearst, J.R., and Carlson, R.C., 1993
- Carman, R.L., 1994, Meteorological data for four sites at surface-disruption features in Yucca Flat, Nevada Test Site, Nye County, Nevada, 1985-86: U.S. Geological Survey Open-File Report 94-491.
- Carnahan, C.L., 1968
see Smith, M.E., and Carnahan, C.L., 1968
- Carnahan, C.L., 1976
see Fenske, P.R., and Carnahan, C.L., 1976
- Carnahan, C.L., and Fenske, P.R., 1971, Digital computer simulation of water table: U.S. Dept. of Energy Report NVO-1229-173.
- Carnahan, C.L., and Fenske, P.R., 1975, An empirical method for simulation of water tables by digital computers: U.S. Energy Research and Development Administration Report NVO-1253-7.
- Carpenter, Everett, 1915, Ground water in south eastern Nevada: U.S. Geological Survey Water-Supply Paper 365.
- Carr, D.B., 1994, Discrimination between NTS explosions, earthquakes and the non-proliferation experiment at the Pinedale Seismic Research Facility: *Seismological Research Letters*, v. 65, no. 1, p. 71.
- Carr, M.D., 1988
see Hildenbrand, T.G., et al., 1988

- Carr, M.D., 1990
see Monsen, S.A., et al., 1990
- Carr, W.J., 1964a, Structure of part of the Timber Mountain dome and caldera, Nye County, Nevada: U.S. Geological Survey Professional Paper 501-B, p. B16-B19.
- Carr, W.J., 1964b
see Byers, F.M., Jr., et al., 1964
- Carr, W.J., 1965a
see Davis, R.E., et al., 1965
- Carr, W.J., 1965b
see Fernald, A.T., et al., 1965
- Carr, W.J., 1966a, Geology and test potential of Timber Mountain Caldera area, Nevada: U.S. Geological Survey Report USGS-474-241 [NTS-174]
- Carr, W.J., 1966b
see Byers, F.M., Jr., et al., 1966
- Carr, W.J., 1966c
see Miller, C.H., et al., 1966
- Carr, W.J., 1968a
see Byers, F.M., Jr., et al., 1968
- Carr, W.J., 1968b
see Ekren, E.B., et al., 1968
- Carr, W.J., 1969
see Christiansen, R.L., et al., 1969
- Carr, W.J., 1973
see Dixon, G.L., et al., 1973
- Carr, W.J., 1974a, Late Cenozoic tectonic history of Nevada Test Site region [abs.]: Abstracts with Programs--Geological Society of America, v. 6, no. 3, p. 152.
- Carr, W.J., 1974b, Summary of tectonic and structural evidence for stress orientation at the Nevada Test Site: U.S. Geological Survey Open-File Report 74-176.
- Carr, W.J., 1976a
see Byers, F.M., Jr., et al., 1976
- Carr, W.J., 1976b
see Dixon, G.L., et al., 1976
- Carr, W.J., 1977
see Christiansen, R.L., et al., 1977
- Carr, W.J., 1979, Possible paleoseismic belt in Nevada Test Site region: U.S. Geological Survey Professional Paper

1150, p. 82.

Carr, W.J., 1980a
see Crowe, B.M., and Carr, W.J., 1980

Carr, W.J., 1980b
see Crowe, B.M., et al., 1980

Carr, W.J., 1980c
see Dixon, G.L., et al., 1980

Carr, W.J., 1980d
see Vaniman, D.T., et al., 1980

Carr, W.J., 1981a
see Rogers, A.M., et al., 1981

Carr, W.J., 1981b
see Szabo, B.J., et al., 1981

Carr, W.J., 1982a, Volcano-tectonic history of Crater Flat, southwestern Nevada, as suggested by new evidence from drill hole USW-VH-1 and vicinity: U.S. Geological Survey Open-File Report 82-457.

Carr, W.J., 1982b
see Oliver, H.W., et al., 1982

Carr, W.J., 1982c
see Rogers, A.M., et al., 1982

Carr, W.J., 1982d
see Snyder, D.B., and Carr, W.J., 1982

Carr, W.J., 1983a
see Byers, F.M., Jr., et al., 1983

Carr, W.J., 1983b
see Dixon, G.L., et al., 1983

Carr, W.J., 1984a, Regional structural setting of Yucca Mountain, southwestern Nevada and late Cenozoic rates of tectonic activity in part of the southwestern Great Basin, Nevada and California: U.S. Geological Survey Open-File Report 84-854.

Carr, W.J., 1984b, Styles of extension in the Nevada Test Site region, southern Walker Lane Belt--an integration of volcano-tectonic and detachment fault models [abs.]: Abstracts with Programs--Geological Society of America, v. 20, no. 3, p. 148.

Carr, W.J., 1984c
see Ander, H.D., et al., 1984

Carr, W.J., 1984d
see Rosholt, J.N., et al., 1984

- Carr, W.J., 1984e
see Snyder, D.B., and Carr, W.J., 1984
- Carr, W.J., 1985
see Rosholt, J.N., et al., 1985
- Carr, W.J., 1986
see Byers, F.M., Jr., et al., 1986
- Carr, W.J., 1988a, Geology of the Devils Hole area, Nevada: U.S. Geological Survey Open-File Report 74-176.
- Carr, W.J., 1988b
see Warren, R.G., et al., 1988
- Carr, W.J., 1990, Styles of extension in the Nevada Test Site region, southern Walker Lane Belt; an integration of volcano-tectonic and detachment fault models, *in* Wernicke, B.P., ed., Basin and range extensional tectonics near the latitude of Las Vegas, Nevada: Memoir--Geological Society of America, v. 176, p. 283-303.
- Carr, W.J., Bath, G.D., Healey, D.L., and Hazelwood, R.M., 1975a, Geology of northern Frenchman Flat, Nevada Test Site: U.S. Geological Survey Report USGS-474-216 [NTS-188]
- Carr, W.J., Byers, F.M., Jr., and Jenkins, E.C., 1968, Geology of drill hole UE18r, Timber Mountain Caldera, Nevada Test Site: U.S. Geological Survey Report USGS-474-313 [Special Studies-69, 1968]
- Carr, W.J., Byers, F.M., Jr., and Orkild, P.P., 1984a, Stratigraphic and volcano-tectonic relations of Crater Flat Tuff and some older volcanic units, Nye County, Nevada: U.S. Geological Survey Open-File Report 84-114.
- Carr, W.J., Byers, F.M., Jr., and Orkild, P.P., 1986, Stratigraphic and volcano-tectonic relations of the Crater Flat Tuff and some older volcanic units, Nye County, Nevada: U.S. Geological Survey Professional Paper 1323.
- Carr, W.J., Miller, C.H., and Dodge, H.W., Jr., 1975b, Geology, physical properties, and surface effects of Discus Thrower site, Yucca Flat, Nevada Test Site: U.S. Geological Survey Open-File Report 75-410.
- Carr, W.J., and Quinlivan, W.D., 1966, Geologic map of the Timber Mountain quadrangle, Nye County, Nevada: U.S. Geological Survey Geologic Quadrangle Map GQ-503, scale 1:24,000.
- Carr, W.J., and Quinlivan, W.D., 1968, Structure of Timber Mountain resurgence dome, *in* Eckel, E.B., ed., Nevada Test Site: Geological Society of America Memoir 110, p. 99-108.
- Carr, W.J., Rogers, A.M., and Crowe, B.M., 1983, U.S. Geological Survey research in radioactive waste disposal, fiscal year 1981: Tectonics, seismicity, and volcanism of the southern Great Basin: U.S. Dept. of Energy Report DOE/ET/44802-T17.
- Carr, W.J., and Rogers, A.M., 1982, Tectonics, seismicity, volcanism, and erosion rates in the southern Great Basin, *in* Schneider, Robert, Roseboom, E.H., Jr., Robertson, J.B., and Stevens, P.R., U.S. Geological Survey research in radioactive waste disposal: Fiscal year 1979: U.S. Geological Survey Circular 847, p. 7-10.
- Carr, W.J., Rogers, A.M., and Crowe, B.M., 1984b, Nevada Test Site and vicinity; tectonics, seismicity, and volcanism of the southern Great Basin, *in* U.S. Geological Survey research in radioactive waste disposal: Fiscal year 1982: U.S. Geological Survey Water-Resources Investigations Report 84-4205, p. 19-28 (also U.S. Dept. of Energy Report DOE/ET/44802-T18).

Carrigan, C.R., 1993

see Goldstein, Peter, et al., 1993

Carroll, P.I., Caporuscio, F.A., and Bish, D.L., 1981, Further description of the petrology of the Topopah Spring Member of the Paintbrush Tuff in drill holes UE25A-1 and USW-G1 and of the lithic-rich tuff in USW-G1, Yucca Mountain, Nevada: Los Alamos National Laboratory Report LA-9000-MS.

Carroll, R.D., 1964

see Scott, J.H., et al., 1964

Carroll, R.D., 1968, Applications of inhole geophysical logs in volcanic rock, Nevada Test Site, in Eckel, E.B., ed., Nevada Test Site: Geological Society of America Memoir 110, p. 125-134.

Carroll, R.D., 1979

see Fairer, G.M., et al., 1979

Carroll, R.D., 1980

see Ege, J.R., et al., 1980

Carroll, R.D., 1981, Seismic velocities and postshot properties in and near chimneys: Proceedings of Monterey containment symposium, Monterey, Calif., Los Alamos National Laboratory Report LA-9211-C, p. 379-396.

Carroll, R.D., 1982a, Geophysical investigations, in Geologic, geophysical, and in situ stress investigations in the vicinity of the Dining Car Chimney, Dining Car/Hybell gold drifts, Nevada Test Site: U.S. Geological Survey Open-File Report 82-114, p. 20-72.

Carroll, R.D., 1982b

see Townsend, D.R., et al., 1982

Carroll, R.D., 1986, Shear-wave velocity measurements in volcanic tuff in Rainier Mesa tunnels, Nevada Test Site, Nevada: U.S. Geological Survey Report USGS-474-321 [Area 12-51]

Carroll, R.D., 1989, Density logging and density of rocks in Rainier Mesa area, Nevada Test Site: U.S. Geological Survey Open-File Report 89-329.

Carroll, R.D., 1990, Electric logging and electrical properties of rocks in Rainier Mesa area, Nevada Test Site, Nevada: U.S. Geological Survey Open-File Report 90-31.

Carroll, R.D., 1994, Measurement of seismic P- and S-wave attenuation in volcanic tuff, Rainier Mesa tunnels, Nevada Test Site: U.S. Geological Survey Open-File Report 94-618.

Carroll, R.D., and Cunningham, M.J., 1978, Geophysical investigations, in U.S. Geological Survey investigations in connection with the Dining Car Event, U12e18 tunnel, Rainier Mesa, Nevada Test Site: U.S. Geological Survey Report USGS-474-246, p. 40-66.

Carroll, R.D., and Kibler, J.E., 1983, Sourcebook of locations of geophysical surveys in tunnels and horizontal holes including results of seismic refraction surveys, Rainier Mesa, Aqueduct Mesa, and Area 16, Nevada Test Site: U.S. Geological Survey Open-File Report 83-399.

Carroll, R.D., and Magner, J.E., 1986, Postshot seismic investigations in the vicinity of the Midas Myth event, U12t.04 drift, Nevada Test Site, Nevada: U.S. Geological Survey Open-File Report 86-98.

- Carroll, R.D., and Magner, J.E., 1988, Velocity logging and seismic velocity of rocks in the Rainier Mesa area, Nevada Test Site, Nevada: U.S. Geological Survey Open-File Report 88-380.
- Carroll, R.D., and Muller, D.C., 1973, Techniques for the quantitative determination of alluvial physical properties from geophysical logs, southern Yucca Flat, Nevada Test Site: U.S. Geological Survey Report USGS-474-175 [Special Projects-35]
- Carson, R.L., 1980, Water-resources data collected in the Devils Hole area, Nye County, Nevada, 1977-78: U.S. Geological Survey Open-File Report 80-772.
- Carter, L.D., Bailey, D.M., and Hunt, R.W., 1967, Preshot geological and engineering conditions at the Project Flivver site, Nevada Test Site: U.S. Army Engineer Waterways Experiment Station, Vicksburg, Miss., Report AEWES-MISC-PAPER-3-895.
- Carter, W.D., 1970
see Morris, R.H., et al., 1970
- Carver, D.L., 1992
see Cranswick, Edward, et al., 1992
- Carver, D.L., 1993
see Meremonte, M.E., et al., 1993
- Case, C.M., 1977, Constitutive relations for flow of water in the unsaturated zone: U.S. Dept. of Energy Report NVO-1253-11.
- Case, C.M., Davis, J.O., French, R.H., and Raker, S.L., 1984a, Site characterization in connection with the low level defense waste management site in Area 5 of the Nevada Test Site, Nye County, Nevada: Final report: Desert Research Institute Report 45034 [DOE/NV/10162-13]
- Case, C.M., Davis, J.O., Heidker, J.C., and Whitbeck, M.R., 1992, Studies of infiltration and lead-soil interactions at the radioactive waste management site in Area 5 of the Nevada Test Site: Desert Research Institute Report 45054 [DOE/NV/10384-13]
- Case, C.M., Kautsky, Mark, Kearl, P.M., Nork, D.M., Panian, T.F., and Raker, S.L., 1984b, Unsaturated flow through the alluvium at the Nevada Test Site: Abstracts with Programs--Geological Society of America, v. 16, no. 6, p. 465.
- Cash, D.J., 1981
see Edwards, C.L., et al., 1981
- Cash, D.J., 1983
see Edwards, C.L., et al., 1983
- Cashman, P.H., 1993
see Herring, D.M., et al., 1993
- Cashman, P.H., 1994
see Cole, J.C., et al., 1994
- Cashman, P.H., and Trexler, J.H., Jr., 1991, The Mississippian Antler foreland and continental margin in southern Nevada: the Eleana Formation reinterpreted: American Association of Petroleum Geologists Bulletin, v. 75, no. 2, p. 359.

- Cashman, P.H., and Trexler, J.H., Jr., 1992, The plot thickens; update on the Mississippian Eleana Formation, Nevada Test Site, Nye County, Nevada: Abstracts with Programs--Geological Society of America, v. 24, no. 6, p. 5.
- Cashman, P.H., and Trexler, J.H., Jr., 1994, The case for two, coeval, Mississippian sections at the Nevada Test Site, in McGill, S.F., and Ross, T.M., eds., Geological investigations of an active margin: Geological Society of America, Cordilleran Section, Annual Meeting, Guidebook, v. 27, p. 76-81.
- Cashman, P.H., Trexler, J.H., Jr., Cole, J.C., and Hudson, M.R., 1994, Structural and stratigraphic relations of Mississippian rocks at the Nevada Test Site, in McGill, S.F., and Ross, T.M., eds., Geological investigations of an active margin: Geological Society of America, Cordilleran Section, Annual Meeting, Guidebook, v. 27, p. 66-76.
- Caskey, S.J., 1990
see Schweickert, R.A., and Caskey, S.J., 1990
- Caskey, S.J., 1991, Mesozoic and Cenozoic structural geology of the CP Hills, Nevada Test Site, Nye County, Nevada; and regional implications: University of Nevada, Reno unpublished thesis (also Nevada Nuclear Waste Project Office Report NWPO-TR-018-91).
- Caskey, S.J., and Schweickert, R.A., 1989, Mesozoic west-vergent thrust in the CP Hills, Nevada Test Site, Nye County, Nev.: Abstracts with Programs--Geological Society of America, v. 21, no. 5, p. 64.
- Caskey, S.J., and Schweickert, R.A., 1992, Mesozoic deformation in the Nevada Test Site and vicinity: Implications for the structural framework of the Cordilleran fold and thrust belt and Tertiary extension north of Las Vegas Valley: Tectonics, v. 11, no. 6, pp. 1314-1331.
- Cattermole, J.M., 1963
see Hansen, W.R., et al., 1963
- Cattermole, J.M., and Hansen, W.R., 1962, Geologic effects of the high-explosive tests in the USGS tunnel area, Nevada Test Site: U.S. Geological Survey Professional Paper 382-B, p. B1-B31.
- Cavazos, A.P., 1986
see Drellack, S.L., and Cavazos, A.P., 1986
- Cavazos, A.P., 1987a
see Drellack, S.L., and Cavazos, A.P., 1987
- Cavazos, A.P., 1987b
see Hawkins, W.L., et al., 1987
- Cawlfeld, D.E., 1992
see Lindstrom, T.F., et al., 1992
- Cawlfeld, D.E., 1993
see Lindstrom, T.F., et al., 1993
- Cawlfeld, D.E., 1995
see Shott, G.J., et al., 1995
- Cerling, T.E., and Quade, J.G., 1991, Using light stable isotopic tracers to distinguish between groundwater discharge and vadose zone carbonates: EOS, Transactions, American Geophysical Union, v. 72, no. 17, p. 116.

Chael, E.P., 1988, Spectral discrimination of NTS explosions and earthquakes in the southwestern United States using high-frequency regional data: *Geophysical Research Letters*, v. 15, no. 6, p. 625-628.

Chael, E.P., Kromer, Richard, McDonald, Tim, Patton, George, and Durham, H.B., 1987, High frequency regional records of earthquakes and NTS explosions: *EOS, Transactions, American Geophysical Union*, v. 68, no. 44, p. 1366.

Chambre, P.L., 1990
see Light, W.B., et al., 1990

Chan, W.W., 1992
see Gupta, I.N., et al., 1992

Chapman, J.B., 1991
see Lyles, B.F., et al., 1991

Chapman, J.B., 1993a, Groundwater investigations near the Radioactive Waste Management Site: Desert Research Institute Letter Report.

Chapman, J.B., 1993b
see Brikowski, T.H., et al., 1993

Chapman, J.B., 1993c
see Detty, T.E., et al., 1993

Chapman, J.B., 1993d
see Estrella, Rocio, et al., 1993

Chapman, J.B., 1994a, Classification of groundwater at the Nevada Test Site: Desert Research Institute Report 45069 [DOE/NV/10384-28]

Chapman, J.B., 1994b
see Albright, W., et al., 1994

Chapman, J.B., Hershey, R.L. and Lyles, B.F., 1995, Groundwater velocities at the Nevada Test Site: ¹⁴carbon-based estimates: Desert Research Institute Report 45135 [DOE/NV/10845-03]

Chapman, J.B., and Lyles, B.F., 1993, Groundwater chemistry at the Nevada Test Site: data & preliminary interpretations: Desert Research Institute Report 45100 [DOE/NV/10845-16]

Charnell, R.L., 1971
see Fenske, P.R., and Charnell, R.L., 1971

Charnell, R.L., 1972
see Fenske, P.R., and Charnell, R.L., 1972

Chen, T.C., 1981, Relation between the excitation of long- and short-period surface waves from underground nuclear explosions at NTS: *EOS, Transactions, American Geophysical Union*, v. 62, no. 17, p. 330-331.

Cherry, J.T., Larson, D.B., and Rapp, E.G., 1968, Computer calculations of the Gasbuggy event: Lawrence Livermore Laboratory Report UCRL-50419.

- Chornack, M.P., 1982a
see Hoover, D.B., et al., 1982
- Chornack, M.P., 1982b
see Senterfit, R.M., et al., 1982
- Chornack, M.P., 1983
see Scott, R.B., et al., 1983
- Chornack, M.P., 1990a
see Diehl, S.F., and Chornack, M.P., 1990
- Chornack, M.P., 1990b
see Diehl, S.F., et al., 1990
- Chornack, M.P., 1991
see Diehl, S.F., et al., 1991
- Christiansen, R.L., 1962
see Barnes, Harley, et al., 1962
- Christiansen, R.L., 1963
see Lipman, P.W., and Christiansen, R.L., 1963
- Christiansen, R.L., 1964
see Byers, F.M., Jr., et al., 1964
- Christiansen, R.L., 1965a
see Barnes, Harley, et al., 1965
- Christiansen, R.L., 1965b
see Noble, D.C., et al., 1965
- Christiansen, R.L., 1966
see Lipman, P.W., et al., 1966
- Christiansen, R.L., 1967
see Barnes, Harley, and Christiansen, R.L., 1967
- Christiansen, R.L., 1969
see Byers, F.M., Jr., et al., 1969
- Christiansen, R.L., 1976
see Byers, F.M., Jr., et al., 1976
- Christiansen, R.L., and Lipman, P.W., 1965, Geologic map of the Topopah Spring NW quadrangle, Nye County, Nevada: U.S. Geological Survey Quadrangle Map GQ-444, scale 1:24,000.
- Christiansen, R.L., and Lipman, P.W., 1966, Emplacement and thermal history of a rhyolite lava flow near Fortymile Canyon, southern Nevada: Geological Society of America Bulletin, v. 77, no. 7, p. 671-684 (also as GSA Special Paper 76, p. 268).

Christiansen, R.L., Lipman, P.W., Carr, W.J., Byers, F.M., Jr., Orkild, P.P., and Sargent, K.A., 1977, Timber Mountain-Oasis Valley caldera complex of southern Nevada: Geological Society of America Bulletin, v. 88, no. 7, p. 943-959.

Christiansen, R.L., Lipman, P.W., Orkild, P.P., and Byers, F.M., Jr., 1965, Structure of the Timber Mountain Caldera, southern Nevada, and its relation to Basin-Range structure, in Geological Survey Research 1965: U.S. Geological Survey Professional Paper 525-B, p. B43-B48.

Christiansen, R.L., and Noble, D.C., 1965, Black Mountain volcanism, southern Nevada [abs]: Geological Society of America Special Paper 82, p. 246.

Christiansen, R.L., and Noble, D.C., 1968, Geologic map of the Trail Ridge quadrangle, Nye County, Nevada: U.S. Geological Survey Geologic Quadrangle Map GQ-774, scale 1:24,000.

Christiansen, R.L., Poole, F.G., Barnes, Harley, Orkild, P.P., Byers, F.M., Jr., Carr, W.J., McKeown, F.A., Houser, F.N., Shoemaker, E.M., and Emerick, W.L., 1969, Guidebook for field trips to the Nevada Test Site: U.S. Geological Survey Open-File Report.

Chuchel, B.A., 1989

see Kirchoff-Stein, K.S., et al., 1989

Chuma, N.J., 1987

see White, A.F., and Chuma, N.J., 1987

Chun, K.-Y., and McEvilly, T.V., 1981, Regional surface wave data from NTS explosions and collapses: Earthquake Notes, v. 52, no. 1, p. 53-54.

Claassen, H.C., 1971

see Dudley, W.W., et al., 1971

Claassen, H.C., 1973, Water quality and physical characteristics of Nevada Test Site water-supply wells: U.S. Geological Survey Report USGS-474-158 [NTS-242]

Claassen, H.C., 1980

see White, A.F., et al., 1980

Claassen, H.C., 1981, Conceptual models governing leaching behavior and their long-term predictive capability: Nuclear and Chemical Waste Management, v. 2, p. 307-313.

Claassen, H.C., 1982, The application of chemical kinetics to defining the source of ground water in the west-central Amargosa Desert, Nevada [abs.]: The American Chemical Society, 38th Southwest and 6th Rocky Mountain combined regional meeting, p. 50-51.

Claassen, H.C., 1983, Sources and mechanisms of recharge for ground water in the west-central Amargosa Desert, Nevada--a geochemical interpretation: U.S. Geological Survey Open-File Report 83-542.

Claassen, H.C., 1984, Paleohydrology of the Amargosa Desert, Nevada [abs.]: Abstracts with Programs--Geological Society of America, v. 16, no. 6, p. 471.

Claassen, H.C., 1985, Sources and mechanisms of recharge for ground water in the west-central Amargosa Desert, Nevada--a geochemical interpretation (Hydrology of nuclear test sites): U.S. Geological Survey Professional Paper 712-F [supercedes Open-File Report 83-542]

- Claassen, H.C., 1986, Late-Wisconsin paleohydrology of the west-central Amargosa Desert, Nevada, U.S.A.: *Chemical Geology*, v. 58, p. 311-323.
- Claassen, H.C., and Cordes, E.H., 1975, Two-well recirculating tracer test in fractured carbonate rock, Nevada: *Hydrological Sciences Bulletin*, v. 20, no. 3, p. 367-382.
- Claassen, H.C., and White, A.F., 1979, Application of geochemical kinetic data to ground-water systems: a tuffaceous-rock system in southern Nevada, in Jenne, E.A., ed., *Chemical modeling in aqueous systems*: American Chemical Society Symposium Series no. 93, p. 771-793.
- Clark, H.W., 1979
see Fritzsche, A.E., et al., 1979
- Clark, T.R., 1984, The role of earth science at the Nevada Test Site; the manager's viewpoint: Abstracts with Programs--Geological Society of America, v. 16, no. 6, p. 472.
- Clark, W.E., 1959
see Bond, W.D., and Clark, W.E., 1959
- Clark, W.E., 1960
see Bond, W.D., and Clark, W.E., 1960
- Clary, S.L., McClary, D.R., Whitney, Rita, and Reeves, D.R., 1995, Water resources data; Nevada water year 1994: U.S. Geological Survey Water-Data Report NV-94-1.
- Clebsch, Alfred, Jr., 1959a, Ground water in the Oak Spring Formation and hydrologic effects of underground nuclear explosions at the Nevada Test Site [abs.]: *Geological Society of America Bulletin*, v. 70, no. 12, pt. 2, p. 1581-1582.
- Clebsch, Alfred, Jr., 1959b
see Diment, W.H., et al., 1959
- Clebsch, Alfred, Jr., 1959c
see McKeown, F.A., et al., 1959
- Clebsch, Alfred, Jr., 1959d
see Wilmarth, V.R., et al., 1959
- Clebsch, Alfred, Jr., 1960a, Ground water in the Oak Spring Formation and hydrologic effects of underground nuclear explosions at the Nevada Test Site: U.S. Geological Survey Open-File Report [TEI-759]
- Clebsch, Alfred, Jr., 1960b
see Wilmarth, V.R., et al., 1960
- Clebsch, Alfred, Jr., 1961, Tritium-age of ground water at the Nevada Test Site, Nye County, Nevada: U.S. Geological Survey Professional Paper 424-C, p. C122-C125.
- Clebsch, Alfred, Jr., and Baker, F.B., 1960, Analysis of ground water from Rainier Mesa, Nevada Test Site, Nye County, Nevada: U.S. Geological Survey Open-File Report [TEI-763]
- Cleveland, J.M., Rees, T.F., and Nash, K.L., 1983, Neptunium and americium speciation in selected basalt, granite, shale, and tuff ground waters: *Science*, v. 221, no. 4607, p. 271-273.

- Clutsom, F.G., 1983
see Robbins, S.L., and Clutsom, F.G., 1983
- Coates, Gary, 1992
see Dombrowski, Tonya, et al., 1992
- Coe, J.A., 1993
see Minor, S.A., et al., 1993
- Cogbill, A.H., 1993
see Pearson, D.C., et al., 1993
- Cogbill, A.H., 1994
see Ferguson, J.G., et al., 1994
- Cogbill, A.H., Gerety, M.T., App, F.N., and Hawkins, W.L., 1989, Carbonate rock emplacement sites at the Nevada Test Site, *in* Olsen, C.W., and Carter, J.A., eds., *Proceedings of the 5th symposium on containment of underground nuclear explosions*, Mission Research Corp., Santa Barbara, Calif., September 19-21, 1989: NTIS Report CONF-8909163, p. 274-296.
- Cohen, Philip, 1963
see Eakin, T.E., et al., 1963
- Cole, J.C., 1987, Breakup of an allochthonous slab: Origin of the Yucca Flat basin, Nevada Test Site [abs.]: *Abstracts with Programs--Geological Society of America*, v. 19, no. 7, p. 623.
- Cole, J.C., 1991
see Sawyer, D.A., et al., 1991
- Cole, J.C., 1993
see Minor, S.A., et al., 1993
- Cole, J.C., 1994
see Cashman, P.H., et al., 1994
- Cole, J.C., 1995
see Sawyer, D.A., et al., 1995
- Cole, J.C., 1996
see Lacznia, R.J., et al., 1996
- Cole, J.C., Harris, A.G., Lanphere, M.A., Barker, C.E., and Warren, R.G., 1993, The case for pre-middle Cretaceous extensional faulting in northern Yucca Flat, southwestern Nevada [abs.]: *Abstracts with Programs--Geological Society of America*, v. 25, no. 5, p. 22.
- Cole, J.C., Trexler, J.H., Jr., and Cashman, P.H., 1994a, Reinterpretation of Mesozoic contractile structures in southern Nye County, Nevada: *EOS, Transactions, American Geophysical Union*, v. 75, no. 44, Suppl., p. 686.
- Cole, J.C., Trexler, J.H., Jr., Cashman, P.H., and Hudson, M.R., 1994b, Structural and stratigraphic relations of the Mississippian rocks at the Nevada Test Site, *in* McGill, S.F. and Ross, T.M. eds., *Geological investigations of an active margin: Geological Society of America Cordilleran Section Guidebook*, p. 66-75.

Cole, J.C., Wahl, R.R., and Hudson, M.R., 1989, Structural relations within the Paleozoic basement of the Mine Mountain block: Implications for interpretation of gravity data in Yucca Flat, Nevada Test Site, *in* Olsen, C.W., and Carter, J.A., eds., Proceedings of the fifth symposium on containment of underground nuclear explosions, v.2: NTIS Report CONF-8909163, p. 431-455.

Coles, D.G., 1978
see MacLean, S.C., et al., 1978

Coles, D.G., 1979
see Ramspott, L.D., et al., 1979

Coles, D.G., 1983
see Failor, R.A., et al., 1983

Coles, D.G., and Ramspott, L.D., 1982, Migration of ruthenium-106 in a Nevada Test Site aquifer: Discrepancy between field and laboratory results: *Science*, v. 215, no. 4537, p. 1235-1237.

Coles, D.G., Weed, H.C., Jackson, D.D., and Schweiger, J.S., 1978, Single-pass leaching of nuclear melt glass by groundwater, Part I: Lawrence Livermore National Laboratory Report UCRL-81617.

Coles, D.G., Weed, H.C., Jackson, D.D., and Schweiger, J.S., 1979, Single-pass leaching of nuclear melt glass by groundwater, *in* Fried, Sherman, ed., Radioactive waste in geologic storage: American Chemical Society Symposium Series, no. 100, p. 93-114.

Coles, D.G., Weed, H.C., and Tewhey, J.D., 1980, Geochemical studies of sorption and transport of radionuclides in rock media: Lawrence Livermore National Laboratory Report UCRL-52929.

Colton, R.B., and McKay, E.J., 1967, Geologic map of the Yucca Flat quadrangle, Nye and Lincoln counties, Nevada: U.S. Geologic Quadrangle Map GQ-582, scale 1:24,000. [TEI-824]

Colton, R.B., and Noble, D.C., 1968, Geologic map of the Groom Mine SW quadrangle, Nye and Lincoln counties, Nevada: U.S. Geological Survey Geologic Quadrangle Map GQ-719, scale 1:24,000.

Colton, R.P., 1968
see Fernald, A.T., et al., 1968

Conaway, J., 1987, Temperature logging as an aid to understanding groundwater flow in NTS boreholes, *in* Olsen, C.W., Donohue, M.L., and Wander, Sandra, eds., Proceedings of the fourth symposium on containment of underground nuclear explosions, U.S. Air Force Academy, Colorado Springs, Colorado, September 21-24, 1987, v. 2: NTIS Report CONF-870961, p. 373-386.

Connolly, J.A., 1981, Hydrothermal alteration in the Climax Granite Stock at the Nevada Test Site: Arizona State University unpublished master's thesis.

Connolly, J.R., Hicks, R.T., Emmanuel, K.M., Cappon, J.P., and Sinnock, Scott, 1983a, Bibliography with abstracts of geological literature pertaining to southern Nevada with particular reference to the Nevada Test Site: Sandia National Laboratories Report SAND-82-2212.

Connolly, J.R., and Keil, Klaus, 1985, Field, petrologic, and geochemical relations of the Grouse Canyon Member of the Belted Range Tuff in the GTUF rock mechanics test area, U12g Tunnel, Nevada Test Site: Sandia National Laboratories Report SAND-84-7206.

Connolly, J.R., Keil, Klaus, Mansker, W.L., Allen, C.C., and Husler, John, 1984, Petrology and geochemistry of samples from bed-contact zones in Tunnel Bed 5, U12g Tunnel, Nevada Test Site: Sandia National Laboratories Report SAND-84-1060.

Connolly, J.R., Mansker, W.L., Hicks, R.T., Allen, C.C., and Husler, John, 1983b, Petrology and geochemistry of the Grouse Canyon Member of the Belted Range Tuff, rock-mechanics drift, U12g Tunnel, Nevada Test Site: Sandia National Laboratories Report SAND-81-1970.

Connors, K.F., 1988

see Gardner, T.W., et al., 1988

Conrad, S.H., 1992

see Strong, W., and Conrad, S.H., 1992

Cook, K.L., Gray, R.C., and Costain, J.K., 1966, Crustal and upper mantle structure from the Nevada Test site area to the Colorado-Kansas border as determined by a gravity profile [abs.]: American Geophysical Union Transactions, v. 47, no. 1, p. 192-193.

Cook, T.L., 1984

see Travis, B.J., et al., 1984

Cooley, R.L., 1981

see Waddell, R.K., et al., 1981

Cooper, J.B., 1964

see Blankennagel, R.K., et al., 1964

Copenhaver, S.A., Krishnaswami, S., and Turekian, K.K., 1990, Retardation of ^{238}U - and ^{232}Th -chain radionuclides in Long Island, Connecticut and Nevada Test Site aquifers: EOS, Transactions, American Geophysical Union, v. 71, no. 43, p. 1299.

Copenhaver, S.A., Krishnaswami, S., Turekian, K.K., and Shaw, Henry, 1992, ^{238}U and ^{232}Th series nuclides in groundwater from the J-13 well at the Nevada Test Site: Implications for ion retardation: Geophysical Research Letters, v. 19, no. 13, p. 1383-1386.

Corchary, G.S., 1968a

see Fernald, A.T., et al., 1968

Corchary, G.S., 1968b

see Hinrichs, E.N., and Corchary, G.S., 1968

Corchary, G.S., 1983

see Twenhofel, W.S., et al., 1983

Cordes, E.H., 1975

see Claassen, H.C., and Cordes, E.H., 1975

Cording, E.J., 1969, Stability of large underground openings at the Nevada Test Site, in Schnabel, J., Rock mechanics seminar: American Society of Civil Engineers, p. 1-20.

Cormier, V.F., 1985, Teleseismic waveform modeling incorporating the effects of known three-dimensional structure beneath the Nevada Test Site (Technical Report no. 1, 2 April-31 July 1985): U.S. Air Force Geophysics Laboratory

Report AFGL-TR-85-0264.

Cormier, V.F., 1986, Teleseismic waveform modeling incorporating the effects of known three-dimensional structure beneath the Nevada Test Site (Technical Report no. 2, 1 August 1985-31 January 1986): U.S. Air Force Geophysics Laboratory Report AFGL-TR-86-0081.

Cormier, V.F., 1987a, Teleseismic waveform modeling incorporating the effects of known three-dimensional structure beneath the Nevada Test Site (Technical Report no. 3, 1 February-31 July 1986): U.S. Air Force Geophysics Laboratory Report AFGL-TR-87-0037.

Cormier, V.F., 1987b, Teleseismic waveform modeling incorporating the effects of known three-dimensional structure beneath the Nevada Test Site (Final Report 4 February 1985-3 February 1987): U.S. Air Force Geophysics Laboratory Report AFGL-TR-87-0192.

Cornwall, H.R., 1972, Geology and mineral deposits of southern Nye county, Nevada: Nevada Bureau of Mines and Geology Bulletin 77.

Costain, J.K., 1966
see Cook, K.L., et al., 1966

Costantino, M.S., and Bonner, B.P., 1980, Ultrasonic velocities and strength of Frenchmans Flat alluvium: Lawrence Livermore National Laboratory Report UCID-18862.

Covington, H.R., 1986
see Williams, V.S., et al., 1986

Covington, H.R., 1987, Map showing surface features induced by underground nuclear explosions at Pahute Mesa, Nevada Test Site, Nye County, Nevada, April 1976 through December 1983: U.S. Geological Survey Miscellaneous Investigations Series Map I-1872, scale 1:48,000.

Covington, H.R., 1989a, The Delamar fracture zone: Recognition of unmapped zones of weakness on Pahute Mesa, Nevada Test Site, in Olsen, C.W., and Carter, J.A., eds., Proceedings of the fifth symposium on containment of underground nuclear explosions--v. 2: NTIS Report CONF-8909163, p. 405-416.

Covington, H.R., 1989b
see Warren, R.G., et al., 1989

Covington, H.R., and Simonds, F.W., 1985, Geologic cross sections and paleogeologic maps, Yucca Flat, Nevada Test Site, in Olsen, C.W., and Donohue, M.L., eds., Proceedings of the third symposium on containment of underground nuclear explosions: NTIS Report CONF-850953, v. 2, p. 31-45.

Covington, P.A., 1977
see Rogers, A.M., et al., 1977

Cox, W.B., 1990
see Daffern, D.D., et al., 1990

Crabtree, J.D., 1986
see Thomas, J.M., et al., 1986

Craig, R.W., and Johnson, K.A., 1984, Geohydrologic data for Test Well UE-25p 1, Yucca Mountain Area, Nye County, Nevada: U.S. Geological Survey Open-File Report, Basic Data 84-450.

Craig, R.W., and Reed, R.L., 1991, Geohydrology of rocks penetrated by Test Well USW H-6, Yucca Mountain, Nye County, Nevada: U.S. Geological Survey Water-Resources Investigations Report 89-4025.

Craig, R.W., Reed, R.L., and Spengler, R.W., 1983, Geohydrologic data for Test Well USW H-6 Yucca Mountain Area, Nye County, Nevada: U.S. Geological Survey Open-File Report 83-856.

Craig, R.W., and Robison, J.H., 1984, Geohydrology of rocks penetrated by Test Well UE-25p No.1, Yucca Mountain Area, Nye County, Nevada: U.S. Geological Survey Water-Resources Investigations Report 84-4248.

Cranswick, Edward, 1993

see Meremonte, M.E., et al., 1993

Cranswick, Edward, Meremonte, M.E., Worley, D.M., Gomberg, J., Carver, D., Brooks, J., Harmsen, S., Duggar, J., Van Dreser, T., Banfill, Robert, and Early, C., 1992, Phased micro-array recordings of aftershocks of the 28 June 1992 Little Skull Mountain (NTS) earthquake: EOS, Transactions, American Geophysical Union, v. 73, no. 43, suppl., p. 338.

Crear, D.A., 1983

see Means, J.L., et al., 1983

Crow, N.B., 1976, First observations of tritium in ground water outside chimneys of underground nuclear explosions, Yucca Flat, Nevada Test Site: Lawrence Livermore Laboratory Report UCRL-52073.

Crowe, B.M., 1979

see Wolfsberg, Kurt, et al., 1979

Crowe, B.M., 1980

see Vaniman, D.T., et al., 1980

Crowe, B.M., 1983

see Carr, W.J., et al., 1983

Crowe, B.M., 1984a

see Ander, H.D., et al., 1984

Crowe, B.M., 1984b

see Carr, W.J., et al., 1984

Crowe, B.M., 1988

see Wells, S.G., et al., 1988

Crowe, B.M., 1989a

see Mattson, S.R., et al., 1989

Crowe, B.M., 1989b

see McKague, H.L., et al., 1989

Crowe, B.M., 1990a, Basaltic volcanism episodes of the Yucca Mountain region, *in* High level radioactive waste management: Proceedings of the international topical meeting, v.1: American Society of Civil Engineers, p. 65-73.

Crowe, B.M., 1990b

see Wells, S.G., et al., 1990

- Crowe, B.M., 1991
see Wells, S.G., et al., 1991
- Crowe, B.M., 1992
see Perry, F.V., and Crowe, B.M., 1992
- Crowe, B.M., 1994
see Ratcliff, C.D., et al., 1994
- Crowe, B.M., and Carr, W.J., 1980, Preliminary assessment of the risk of volcanism at a proposed nuclear waste repository in the southern Great Basin: U.S. Geological Survey Open-File Report 80-357.
- Crowe, B.M., and Sargent, K.A., 1979, Major-element geochemistry of the Silent Canyon-Black Mountain peralkaline volcanic centers, northwestern Nevada Test Site: Applications to an assessment of renewed volcanism: U.S. Geological Survey Open-File Report 79-926.
- Crowe, B.M., Vaniman, D.T., Carr, W.J., and Fleck, R.J., 1980, Geology and tectonic setting of a Neogene volcanic belt within the south-central Great Basin, Nevada and California [abs.]: Abstracts with Programs--Geological Society of America, v. 12, no. 7, p. 409.
- Crowley, B.K., and Germain, L.S., 1971, Energy released in the Benham aftershocks: Seismological Society of America Bulletin, v. 61, no. 5, p. 1293-1301.
- Cullen, J.J., Jacobson, R.L., and Russell, C.E., 1991, Siting and constructing very deep monitoring wells on the U.S. Department of Energy's Nevada Test Site: U.S. Dept. of Energy Report CONF-910981-51.
- Cummings, David, 1968a, Mechanical analysis of the effect of the Timber Mountain caldera on Basin and Range faults: Journal of Geophysical Research, v.73, no. 8, p. 2787-2794.
- Cummings, David, 1968b
see Byers, F.M., Jr. and Cummings, David, 1968
- Cunningham, D.R., 1964
see Scott, J.H., et al., 1964
- Cunningham, D.R., 1975
see Miller, C.H., et al., 1975
- Cunningham, D.R., 1980
see Ege, J.R., et al., 1980
- Cunningham, M.J., 1975a
see Miller, C.H., et al., 1975
- Cunningham, M.J., 1975b
see Terry, S.S., and Cunningham, M.J., 1975
- Cunningham, M.J., 1976
see Ege, J.R., and Cunningham, M.J., 1976
- Cunningham, M.J., 1978
see Carroll, R.D., and Cunningham, M.J., 1978

- Cunningham, M.J., 1979
see Fairer, G.M., et al., 1979
- Cunningham, M.J., and Snyder, R.P., 1975, Geologic and geophysical field investigations at the Mine Throw III site, Split Ridge, Nevada Test Site, Nevada: U.S. Geological Survey Report USGS-474-220 [NTS-257]
- Currey, F.E., 1974
see Miller, C.H., et al., 1974
- Currey, F.E., 1978
see Healey, D.L., et al., 1978
- Currey, F.E., 1979
see Healey, D.L., et al., 1979
- Czarnecki, J.B., 1984, Finite-element simulation of potential radionuclide migration from a potential nuclear-waste repository at the Nevada Test Site: EOS, Transactions, American Geophysical Union, v. 65, no. 16, p. 209.
- Czarnecki, J.B., 1985, Simulated effects of increased recharge on the ground-water flow system of Yucca Mountain and vicinity, Nevada-California: U.S. Geological Survey Water-Resources Investigations Report 84-4344.
- Czarnecki, J.B., 1991, Preliminary simulations showing potential effects of a wetter future climate coupled with a localized increase in hydraulic conductivity on the ground water flow system of Yucca Mountain and vicinity, Nevada-California: EOS, Transactions, American Geophysical Union, v. 72, no. 17, p. 121.
- Czarnecki, J.B., 1992, Simulated water-level declines caused by withdrawals from wells J-13 and J-12 near Yucca Mountain, Nevada: U.S. Geological Survey Open-File Report 91-478.
- Czarnecki, J.B., and Geldon, A.L., 1991, Saturated-zone ground-water flow at Yucca Mountain, Nevada; can fracture flow be adequately characterized?, in Gomberg, J.S., ed., U.S. Geological Survey Committee for the Advancement of Science in the Yucca Mountain Project, symposium on fractures, hydrology, and Yucca Mountain: Abstracts and summary: U.S. Geological Survey Open-File Report 91-125, p. 25-26.
- Czarnecki, J.B., and Waddell, R.K., 1984, Finite-element simulation of ground-water flow in the vicinity of Yucca Mountain, Nevada-California: U.S. Geological Survey Water-Resources Investigations Report 84-4349.
- Czarnecki, J.B., and Wilson, W.E., 1993, Conceptual models of regional ground-water flow and planned studies at Yucca Mountain, Nevada: Hydrological Science and Technology, v. 7, no. 1-4, 1991, p. 15-25.
- Daffern, D.D., 1992
see Lindstrom, T.F., et al., 1992
- Daffern, D.D., Ebeling, L.E., and Cox, W.B., 1990, Unsaturated zone characterization of the Area 5 Radioactive Waste Management Site, Phase I, preliminary laboratory studies for the determination of soil moisture characteristic curves and unsaturated hydraulic conductivities: U.S. Dept. of Energy Report DOE/NV/10630-3.
- D'Agnese, F.A., 1994, Using scientific information systems for three-dimensional modeling of regional ground-water flow systems, Death Valley region, Nevada and California: Colorado School of Mines, unpublished Ph.D. dissertation.
- D'Agostino, J.P., 1965
see Davis, R.E., et al., 1965

- Daily, W.D., 1984
see Lin, Wunan, and Daily, W.D., 1984
- Daily, W.D., 1990
see Lin, Wunan, and Daily, W.D., 1990
- Daily, W.D., Lin, Wunan, and Buscheck, T.A., 1985, Hydrological properties of Topopah Spring Tuff: Laboratory measurements: Lawrence Livermore National Laboratory Report UCRL-94363.
- Daily, W.D., Lin, Wunan, and Buscheck, T.A., 1986, Water movement in Topopah Spring Tuff: Laboratory measurements: EOS, Transactions, American Geophysical Union, v. 67, no. 27, p. 565.
- Daily, W.D., Lin, Wunan, and Buscheck, T.A., 1987, Hydrological properties of Topopah Spring Tuff: Laboratory measurements: Journal of Geophysical Research, v. 92, no. B8, p. 7854-7864.
- Daily, W.D., and Ramirez, A.L., 1986, Geophysical tomography for imaging water movement in welded tuff, *in* Rosinger, E.L.J., Proceedings of the second international conference on radioactive waste management: Canadian Nuclear Society, p. 116-120.
- Daily, W.D., and Ramirez, A.L., 1989, Evaluation of electromagnetic tomography to map in situ water in heated welded tuff: Water Resources Research, v. 25, no. 6, p. 1083-1096.
- Dale, D.A., and Seaber, P.R., 1993, Identification and correlation of lithostratigraphic and hydrostratigraphic units in siliceous Miocene volcanics on Pahute Mesa, Nevada Test Site, Nye County, Nev.: Abstracts with Programs--Geological Society of America, v. 25, no. 6, p. 208-209.
- Daley, T.M., and McEvilly, T.V., 1990, NTS seismic yield experiment; VSP site characterization study: Seismological Research Letters, v. 61, no. 1, p. 11.
- Daley, T.M., McEvilly, T.V., and Michelini, A., 1990, VSP (vertical seismic profile) site characterization at NTS, summary report: Lawrence Berkeley Laboratory Report LBL-29778.
- Daniels, J.I., ed., 1993a, Pilot study risk assessment for selected problems at the Nevada Test Site (NTS): Lawrence Livermore National Laboratory Report UCRL-LR-113891.
- Daniels, J.I., 1993b
see Andricevic, Roko, et al., 1993
- Daniels, J.I., 1994
see Andricevic, Roko, et al., 1994
- Daniels, J.J., 1980a, Borehole geophysical measurements for hole UE25a-3, Nevada Test Site, Nuclear Waste Isolation Program: U.S. Geological Survey Open-File Report 80-126.
- Daniels, J.J., 1980b
see Hagstrum, J.T., et al., 1980
- Daniels, J.J., 1981, Interpretation of geophysical well-log measurements in drill holes UE25a-4, -5, -6, and -7, Yucca Mountain, Nevada Test Site: U.S. Geological Survey Open-File Report 81-389.
- Daniels, J.J., and Scott, J.H., 1983, Interpretation of borehole geophysical data at NTS: U.S. Geological Survey Professional Paper 1375.

Daniels, K.S., 1983

see Hoffman, D.C., et al., 1983

Daniels, W.R., 1978a, Summary of RNM activities during FY-78 (October 1, 1977 to September 30, 1978): Los Alamos Scientific Laboratory memorandum CNC-11 to R. W. Newman (November 16, 1978).

Daniels, W.R., 1978b

see Erdal, B.R., et al., 1978a

Daniels, W.R., 1978c

see Erdal, B.R., et al., 1978b

Daniels, W.R., 1979a, Analysis of core samples from UE4g-2: Los Alamos National Laboratory Internal Memo CNC-11-79-32.

Daniels, W.R. 1979b, Summary of RNM Activities During FY-79 (October 1, 1978 to September 30, 1979): Los Alamos Scientific Laboratory Memorandum RNM-CNC-11/11/79-2 to R. W. Newman (November 9, 1979).

Daniels, W.R., 1979c

see Erdal, B.R., et al., 1979

Daniels, W.R., 1979d

see Wolfsberg, Kurt, et al., 1979

Daniels, W.R., 1980

see Wolfsberg, Kurt, et al., 1980

Daniels, W.R., ed., 1981a, Laboratory and field studies related to the Radionuclide Migration Project, October 1, 1979 - September 30, 1980: Los Alamos National Laboratory Report LA-8670-PR.

Daniels, W.R., comp., 1981b, Laboratory studies of radionuclide distributions between selected groundwaters and geologic media, October 1, 1979-September 30, 1980: Los Alamos Scientific Laboratory Report LA-8586-PR.

Daniels, W.R., comp., 1981c, Laboratory studies of radionuclide distributions between selected groundwaters and geologic media, October 1-December 31, 1980: Los Alamos Scientific Laboratory Report LA-8691-PR.

Daniels, W.R., comp., 1981d, Laboratory studies of radionuclide distributions between selected groundwaters and geologic media, January 1-March 31, 1981: Los Alamos Scientific Laboratory Report LA-8818-PR.

Daniels, W.R., 1981e

see Hoffman, D.C., and Daniels, W.R., 1981

Daniels, W.R., ed., 1982, Laboratory and field studies related to the Radionuclide Migration Project, October 1, 1980 - September 30, 1981: Los Alamos National Laboratory Report LA-9192-PR.

Daniels, W.R., ed., 1983a, Laboratory and field studies related to the Radionuclide Migration Project, October 1, 1981 - September 30, 1982: Los Alamos National Laboratory Report LA-9691-PR.

Daniels, W.R., 1983b

see Hoffman, D.C., and Daniels, W.R., 1983

Daniels, W.R., 1983c

see Hoffman, D.C., et al., 1983

Daniels, W.R., 1984

see Hoffman, D.C. and Daniels, W.R., 1984

Daniels, W.R., Erdal, B.R., and Vaniman, D.T., 1983, Research and development related to the Nevada Nuclear Waste Storage Investigations: Progress report, July 1-September 30, 1982: Los Alamos National Laboratory Report LA-9577-PR.

Daniels, W.R., Erdal, B.R., Vaniman, D.T., and Wolfsberg, Kurt, 1982a, Research and development related to the Nevada Nuclear Waste Storage Investigations: Progress report, January 1-March 31, 1982: Los Alamos National Laboratory Report LA-9327-PR.

Daniels, W.R., Hoffman, D.C., Erdal, B.R., and Wolfsberg, Kurt, 1978, A radionuclide migration study at the Nevada Test Site: EOS, Transactions, American Geophysical Union, v. 59, no. 12, p. 1224.

Daniels, W.R., and Thompson, J.L., eds., 1984, Laboratory and field studies related to the Radionuclide Migration Project, October 1, 1982-September 30, 1983: Los Alamos National Laboratory Report LA-10121-PR.

Daniels, W.R., and Wolfsberg, Kurt, 1981, Laboratory studies of radionuclide distributions between selected groundwaters and geologic media: Progress report, April 1-June 30, 1981: Los Alamos National Laboratory Report LA-8952-PR.

Daniels, W.R., Wolfsberg, Kurt, and Rundberg, R.S., 1982b, Summary report on the geochemistry of Yucca Mountain and environs: Los Alamos National Laboratory Report LA-9328-MS.

Daniels, W.R., Wolfsberg, Kurt, Vaniman, D.T., and Erdal, B.R., 1982c, Research and development related to the Nevada Nuclear Waste Storage Investigations: Progress report, July 1-September 30, 1981: Los Alamos National Laboratory Report LA-9095-PR.

Danilchuk, Walter, 1969, Summary of geology and physical properties of the tuffs of the U12g09 experiment and work drifts, Nevada Test Site: U.S. Geological Survey Report USGS-474-30 [Rainier Mesa-12]

Danilchuk, Walter, 1970

see Ege, J.R., et al., 1970

Danilchuk, Walter, 1980

see Ege, J.R., et al., 1980

Davey, Amy, 1991

see Karasaki, Kenzi, et al., 1991

Davidson, E.D., 1989

see McKague, H.L., et al., 1989

Davies, W.J., 1982a

see Drellack, S.L., et al., 1982

Davies, W.J., 1982b

see Gonzales, J.L., et al., 1982

Davies, W.J., 1983

- see Drellack, S.L., et al., 1983
- Davies, W.J., 1984
see Drellack, S.L., et al., 1984
- Davies, W.J., 1985
see Gonzales, J.L., et al., 1985
- Davies, W.J., Gonzales, J.L., and Drellack, S.L., 1982, Lithologic and geophysical logs of selected drill holes in eastern Area 4, and western Area 7, Nevada Test Site, v. 3: U.S. Dept. of Energy Report DOE/NV/10322-3.
- Davis, J.M., 1992, Greater confinement disposal heterogeneity study, Nevada Test Site, Area 5, Radioactive Waste Management Site: U.S. Dept. of Energy Report DOE/NV/10630-26.
- Davis, J.O., 1983, Geological reconnaissance and chronological studies: Desert Research Institute Technical Report 33 [DOE/NV/10162-9]
- Davis, J.O., 1984
see Case, C.M., et al., 1984
- Davis, J.O., 1992
see Case, C.M., et al., 1992
- Davis, L.L., and Lynch, R.D., 1970a, Seismic response in Las Vegas, Nevada, from nuclear detonations at the Nevada Test Site [abs.]: Earthquake Notes, v. 41, no. 2, p. 14.
- Davis, L.L., and Lynch, R.D., 1970b, Seismic response in Las Vegas, Nevada from nuclear detonations at the Nevada Test Site [abs.]: Abstracts with Programs--Geological Society of America, v. 2, no. 2, p. 85.
- Davis, R.E., 1961
see Houser, F.N., et al., 1961
- Davis, R.E., 1963
see Williams, W.P., et al., 1963
- Davis, R.E., 1964, Geology of the 410 area, Nevada Test Site, Nye County, Nevada: U.S. Geological Survey Open-File Report [TEI-789]
- Davis, R.E., Carr, W.J., and D'Agostino, J.P., 1965, Geology and surface effects, Handcar event: U.S. Atomic Energy Commission Report PNE-810F.
- Davis, S.N., 1990
see Kubik, P.W., et al., 1990
- Davis, S.N., and Lynch, E.J., 1963, Ground-water monitoring: Hazleton-Nuclear Science Corp. Report HNS-1229-43.
- Davisson, M.L., Hudson, G.B., Kenneally, J.M., Nimz, G.J., and Rego, J.H., 1993, Report on the radiochemical and environmental isotope character for monitoring well UE-lq: Groundwater Characterization Program: Lawrence Livermore National Laboratory Report UCRL-ID-114158.
- Davisson, M.L., Kenneally, J.M., Smith, D.K., Hudson, G.B., Nimz, G.J., and Rego, J.H., 1994, Preliminary

report on the isotope hydrology investigations at the Nevada Test Site: Hydrologic Resources Management Program, FY 1992-1993: Lawrence Livermore National Laboratory Report UCRL-ID-116122.

Dean, R., 1979, Emplacement hole drilling, Nevada Test Site, fiscal year 1978: U.S. Dept. of Energy Report NVO-410-49.

DeFazio, Thomas, 1969a
see Aki, Keiiti, et al., 1969a

DeFazio, Thomas, 1969b
see Aki, Keiiti, et al., 1969b

de la Cruz, R.V., 1981
see Heuze, F.E., et al., 1981

Denny, M.D., 1986a
see Glaser, R.E., et al., 1986

Denny, M.D., 1986b
see Vergino, E.S., et al., 1986

Denny, M.D., 1987
see Taylor, S.R., et al., 1987

Denny, M.D., 1989
see Taylor, S.R., et al., 1989

Denny, M.D., 1990a, NTS seismic yield experiment; an overview: *Seismological Research Letters*, v. 61, no. 1, p. 11.

Denny, M.D., 1990b
see Maxwell, D.E., and Denny, M.D., 1990

Denny, M.D., Harris, D.B., and Goodman, D.M., 1990, NTS seismic yield experiment; transfer functions, magnitudes and corner frequencies vs. depth: *Seismological Research Letters*, v. 61, no. 1, p. 11.

DePaolo, D.J., 1983
see Semken, S.C., and DePaolo, D.J., 1983

Der, Z.A., 1979
see Barker, B.W., et al., 1979

Der, Z.A., 1981
see Barker, B.W., et al., 1981

Derlich, S., 1970, Underground nuclear explosion effects in granite-rock fracturing, *in* *Proceedings of the symposium on engineering with nuclear explosives*, Las Vegas, Nev.: NTIS report CONF-700101, v. 1, p. 505-518.

Desert Research Institute, 1987, Review of final environmental impact statement, Nevada Test Site, Nye County, Nevada: Desert Research Institute report.

Desert Research Institute, 1989, FY-1989 environmental research programs on the Nevada Test Site: Work plan and

quarterly reports: Desert Research Institute report.

Desert Research Institute, 1990, Groundwater monitoring program for the Nevada Test Site: Desert Research Institute.

Desert Research Institute, 1991, Environmental assessment for the groundwater characterization project, Nevada Test Site; second draft: Desert Research Institute.

Dettinger, M.D., 1987, Influence of Tertiary-age extensional tectonics on present-day regional ground-water flow and discharge in southern Nevada and vicinity [abs.]: Abstracts with Programs--Geological Society of America, v. 19, n. 6, p. 371-372.

Dettinger, M.D., 1989a, Distribution of carbonate-rock aquifers in southern Nevada and the potential for their development--summary of findings, 1985-88: Program for the study and testing of carbonate rock aquifers in eastern and southern Nevada, Summary report no. 1.

Dettinger, M.D., 1989b, Reconnaissance estimates of natural recharge to desert basins in Nevada, U.S.A., by using chloride-balance calculations: Journal of Hydrology, v. 106, p. 55-78.

Dettinger, M.D., Harrill, J.R., Schmidt, D.L., and Hess, J.W., 1995, Distribution of carbonate-rock aquifers and the potential for their development, southern Nevada and adjacent parts of California, Arizona, and Utah: U.S. Geological Survey Water-Resources Investigations Report 91-4146.

Detty, T.E., 1994

see Sully, M.J., et al., 1994

Detty, T.E., Hammermeister, D.P., Blout, D.O., Sully, M.J., Dodge, R.L., Chapman, J.B., and Tyler, S.W., 1993, Water fluxes in a deep arid-region vadose zone: American Geophysical Union Supplement to EOS Abstracts, Fall Meeting.

Dickey, D.D., 1959a

see Diment, W.H., et al., 1959

Dickey, D.D., 1959b

see McKeown, F.A., et al., 1959

Dickey, D.D., 1960a, Thermoluminescence of some dolomite, tuff, and granitic rock samples from the north-central part of the Nevada Test Site, Nye County, Nevada--A progress report: U.S. Geological Survey Open-File Report [TEI-765]

Dickey, D.D., 1960b

see McKeown, F.A., and Dickey, D.D., 1960

Dickey, D.D., 1961a

see Gibbons, A.B., et al., 1961

Dickey, D.D., 1961b

see McKeown, F.A., and Dickey, D.D., 1961

Dickey, D.D., 1962a, Interim geological investigations in the U12e.03a and U12e.03b tunnels, Nevada Test Site, Nye County, Nevada: U.S. Geological Survey Report TEI-806.

Dickey, D.D., 1962b

- see Emerick, W.L., and Dickey, D.D., 1962
- Dickey, D.D., 1962c
see Emerick, W.L., et al., 1962
- Dickey, D.D., 1968, Fault displacement as a result of underground nuclear explosions, *in* Eckel, E.B., ed., Nevada Test Site: Geological Society of America Memoir 110, p. 219-232.
- Dickey, D.D., 1970a
see Bucknam, R.C., et al., 1970
- Dickey, D.D., 1970b
see Hamilton, R.M., et al., 1970
- Dickey, D.D., and Ellis, W.L., 1970, Principal linear fractures resulting from nuclear explosions in Pahute Mesa: U.S. Geological Survey Report USGS-474-64 [Special Studies-67]
- Dickey, D.D., and Emerick, W.L., 1961, Interim report on geologic investigations of the U12b tunnel system, Nevada Test Site, Nye County, Nevada: U.S. Geological Survey Open-File Report [TEI-799]
- Dickey, D.D., and Emerick, W.L., 1962, Interim geological investigations in the U12b.09 and U12b.07 tunnels, Nevada Test Site, Nye County, Nevada, with a section on gamma radioactivity, by C.M. Bunker: U.S. Geological Survey Open-File Report [TEI-797]
- Dickey, D.D., and Hassemer, J.H., 1974, Strain measurement results from four underground nuclear explosions in Yucca and Frenchman flats, Nevada: U.S. Geological Survey Report USGS-474-174 [NTS-250]
- Dickey, D.D., Jenkins, E.C., McKeown, F.A., and Lee, W.H., 1967, Geologic effects of the Greeley event, Nevada Test Site: U.S. Geological Survey Open-File Report 3-12-69 [NTS-196]
- Dickey, D.D., Jenkins, E.C., McKeown, F.A., and Lee, W.H., 1969a, Geologic effects of the Greeley event: U.S. Geological Survey Report USGS-474-12 [NTS-196]
- Dickey, D.D., and McKeown, F.A., 1960, Geology of Dolomite Hill, Nevada Test Site, Nye County, Nevada: U.S. Geological Survey Open-File Report [TEI-755]
- Dickey, D.D., McKeown, F.A., and Ellis, W.L., 1969b, Summary of geologic effects of the Boxcar event, Nevada Test Site: U.S. Geological Survey Open-File Report.
- Diehl, S.F., 1983
see Scott, R.B., et al., 1983
- Diehl, S.F., and Chornack, M.P., 1990, Stratigraphic correlation and petrography of the bedded tuffs, Yucca Mountain, Nye County, Nevada: U.S. Geological Survey Open-File Report 89-3.
- Diehl, S.F., Chornack, M.P., Swolfs, H.S., and Odum, J.K., 1990, Fracture studies in the welded Grouse Canyon Tuff: Laser drift of the G-tunnel underground facility, Rainier Mesa, Nevada Test Site, Nevada, *in* Barker, C.E., and Coury, A.B., comps., Abstracts of the U.S. Geological Survey, Central region; 1990 poster review: U.S. Geological Survey Open-File Report 90-656, p.7.
- Diehl, S.F., Chornack, M.P., Swolfs, H.S., and Odum, J.K., 1991, Fracture studies in the welded Grouse Canyon Tuff: Laser drift of the G-tunnel underground facility, Rainier Mesa, Nevada Test Site, Nevada, *in* Gomberg, J.S.,

ed., U.S. Geological Survey Committee for the Advancement of Science in the Yucca Mountain Project, symposium on fractures, hydrology, and Yucca Mountain, abstracts and summary: U.S. Geological Survey Open-File Report 91-125, p. 16-17.

Diment, W.H., 1959, Maximum accelerations caused by underground explosions in the Oak Spring Formation at the Nevada Test Site [abs.]: Geological Society of America Bulletin, v. 70, no. 12, pt. 2, p. 1589.

Diment, W.H., 1960
see Bunker, C.M., et al., 1960

Diment, W.H., Healey, D.L., and Roller, J.C., 1959a, Gravity and seismic exploration in Yucca Valley, Nevada Test Site, January-April 1959: U.S. Geological Survey Open-File Report [TEI-545]

Diment, W.H., Healey, D.L., and Roller, J.C., 1960, Gravity and seismic exploration at the Nevada Test Site, *in* Geological Survey Research 1960: U.S. Geological Survey Professional Paper 400-B, p. B156-B160.

Diment, W.H., Stewart, S.W., and Roller, J.C., 1961, Crustal structure from the Nevada Test Site to Kingman, Arizona, from seismic and gravity observations: Journal of Geophysical Research, v. 66, no. 1, p. 201-214.

Diment, W.H., Wilcox, R.E., Keller, G.V., Dobrovolsky, Ernest, Kracek, F.C., Roller, J.C., Peselnick, L.C., Robertson, E.C., Lachenbruch, A.H., and Bunker, C.M., 1959b, Properties of Oak Spring Formation in Area 12 at the Nevada Test Site: U.S. Geological Survey Open-File Report [TEI-672]

Diment, W.H., Wilmarth, V.R., Houser, F.N., Dickey, D.D., Hinrichs, E.N., Botinelly, Theodore, Wilcox, R.E., and Byers, F.M., Jr., 1959c, Geological Survey investigations in the U12e.05 tunnel, Nevada Test Site: U.S. Geological Survey Open-File Report [TEM-997]

Diment, W.H., Wilmarth, V.R., McKeown, F.A., Dickey, D.D., Botinelly, Theodore, Hinrichs, E.N., Roach, C.H., Byers, F.M., Izett, G.A., and Johnson, G.R., 1959d, Geological Survey investigations in the U12b.01 tunnel, Nevada Test Site: U.S. Geological Survey Open-File Report [TEM-998]

Diment, W.H., Wilmarth, V.R., McKeown, F.A., Dickey, D.D., Hinrichs, E.N., Botinelly, Theodore, Roach, C.H., Byers, F.M., Jr., Hawley, C.C., Izett, G.A., and Clebsch, Alfred, Jr., 1959e, Geological Survey investigations in the U12b.03 and U12.04 tunnels, Nevada Test Site: U.S. Geological Survey Open-File Report [TEM-996]

Diment, W.H., Wilmarth, V.R., Wilcox, R.E., Clebsch, Alfred, Jr., Manger, G.E., Hawley, C.C., Keller, G.V., Robertson, E.C., Peselnick, L.C., Bunker, C.M., Healey, D.L., Kane, M.F., Roth, E.F., Stewart, S.W., Roller, J.C., Jackson, W.H., Oliver, H.W., Byerly, P.E., and Mabey, D.R., 1959f, Geologic effects of the Rainier underground nuclear explosion: U.S. Geological Survey Open-File Report [TEI-355]

Dinwiddie, G.A., 1978, Hydrologic investigation of the Eleana Formation, Nevada Test Site: U.S. Geological Survey Professional Paper 1100, p. 279.

Dinwiddie, G.A., and Weir, J.E., Jr., 1979, Summary of hydraulic tests and hydraulic data for holes UE16d and UE16f, Syncline Ridge area, Nevada Test Site: U.S. Geological Survey Report USGS-1543-3.

Dixon, G.L., 1965
see Fernald, A.T., et al., 1965

Dixon, G.L., 1966
see Miller, C.H., et al., 1966

- Dixon, G.L., 1968
see Ekren, E.B., et al., 1968
- Dixon, G.L., 1972
see Sargent, K.A., et al., 1972
- Dixon, G.L., 1982a
see Bath, G.D., et al., 1982
- Dixon, G.L., 1982b
see Oliver, H.W., et al., 1982
- Dixon, G.L., 1982c
see Wilson, W.E., et al., 1982
- Dixon, G.L., 1983
see Bath, G.D., et al., 1983
- Dixon, G.L., Carr, W.J., and Aamodt, P.L., 1973, Lithologic logs and stratigraphic identification of exploratory and emplacement drill holes in Area 4, Nevada Test Site: U.S. Geological Survey Report USGS-474-173 [NTS-249]
- Dixon, G.L., Carr, W.J., and Twenhofel, W.S., 1980, Earth science investigations for nuclear waste disposal at the Nevada Test Site: Abstracts with Programs--Geological Society of America, v. 12, no. 7, p. 414.
- Dixon, G.L., Carr, W.J., and Williams, W.P., 1983, Geologic and geophysical log of drill hole Ue5i, Nevada Test Site: U.S. Geological Survey USGS-474-316 [NTS-186, 1967]
- Dixon, G.L., and Glanzman, V.M., 1982, Search for potential sites, *in* Schneider, Robert, and Trask, N.J., U.S. Geological Survey research in radioactive waste disposal: Fiscal year 1980: U.S. Geological Survey Open-File Report 82-509, p. 7-11.
- Dixon, G.L., and Glanzman, V.M., 1984, Nevada Test Site and vicinity; search for potential sites, *in* Schneider, Robert, and Trask, N.J., U.S. Geological Survey research in radioactive waste disposal: Fiscal year 1982: U.S. Geological Survey Water-Resources Investigations Report 84-4205, p. 8-18.
- Dixon, G.L., Hedlund, D.C., and Ekren, E.B., 1973b, Geologic map of the Pritchards Station quadrangle, Nye County, Nevada: U.S. Geological Survey Miscellaneous Geologic Investigations Map I-728, scale 1:48,000.
- Dixon, G.L., and Hoover, D.B., 1982, Search for potential sites, *in* Schneider, Robert, Roseboom, E.H., Jr., Robertson, J.B., and Stevens, P.R., U.S. Geological Survey research in radioactive waste disposal: Fiscal year 1979: U.S. Geological Survey Circular 847, p. 4-7.
- Dixon, G.L., Quinlivan, W.D., Ray, J.M., and Ohl, J.P., 1975, Supplementary lithologic logs and stratigraphic identification for exploratory and emplacement drill holes in Areas 3, 4, and 7, Nevada Test Site: U.S. Geological Survey Report USGS-474-211 [NTS-260]
- Dixon, G.L., Sargent, K.A., and Carr, W.J., 1976, Abandonment of the Indian Trail Formation and distribution of certain equivalent ash-flow tuffs, eastern Nevada Test Site, *in* Contributions to stratigraphy: U.S. Geological Survey Bulletin 1422-A, p. A49-A54.
- Dixon, G.L., Sargent, K.A., and Spengler, R.W., 1973c, Lithologic logs and stratigraphic identification of exploratory and emplacement drill holes in Area 3, Nevada Test Site: U.S. Geological Survey Report USGS-474-151

[NTS-244]

Dobrovolny, Ernest, 1959
see Diment, W.H., et al., 1959

Dobrovolny, Ernest, 1962
see Wilmarth, V.R., et al., 1962

Dockery, H.A., 1987
see Anderson, G.D., et al., 1987

Dockery, H.A., 1989
see McKague, H.L., et al., 1989

Dockery, H.A., Byers, F.M., and Orkild, P.P., 1985, Nevada Test Site field trip guidebook 1984: Los Alamos National Laboratory Report LA-10428-MS.

Dodge, H.W., Jr., 1968
see Ekren, E.B., et al., 1968

Dodge, H.W., Jr., 1975
see Carr, W.J., et al., 1975

Dodge, H.W., Jr., 1976
see Ege, J.R., et al., 1976

Dodge, H.W., Jr., Ege, J.R., Miller, D.R., and Magner, J.E., 1976, Determination of in situ stresses in U12t.02 SRI alcove, Aqueduct Mesa, Nevada Test Site: U.S. Geological Survey Report USGS-474-236 [Area 12-34]

Dodge, R.L., 1993
see Detty, T.E., et al., 1993

Dombrowski, Tonya, Coates, Gary, and Stetzenbach, K.J., 1992, Conservative tracers for the C-well hydraulic testing, *in* High level radioactive waste management: Proceedings of the third international conference: American Nuclear Society, v.3, p. 1991-1996.

Donahue, M.E., 1993
see Lindstrom, F.T., et al., 1993

Donnelson, K.D., 1994
see Blout, D.O., et al., 1994

Donohue, M.L., 1985
see Olsen, C.W., and Donohue, M.L., 1985

Dorn, R.I., 1991
see Bell, J.W., et al., 1991

Dorn, R.I., 1995
see Peterson, F.F., et al., 1995

Dosch, R.G., 1979

- see Lynch, A.W., and Dosch, R.G., 1979
- Doty, G.C., 1980
see Winograd, I.J. and Doty, G.C., 1980
- Doty, G.C., and Rush, F.E., 1984, Inflow to a crack in playa deposits of Yucca Lake, Nevada Test Site, Nye County, Nevada: U.S. Geological Survey Water-Resources Investigations Report 84-4296.
- Doty, G.C., and Thordarson, William, 1983, Water table in rocks of Cenozoic and Paleozoic age, 1980, Yucca Flat, Nevada Test Site, Nevada: U.S. Geological Survey Water-Resources Investigations Report 83-4067, scale 1:48,000.
- Douglas, A.C., and Millett, M.R., 1978, Total intensity magnetometer logging as a stratigraphic tool in Tertiary volcanic rock: Lawrence Livermore Laboratory Report UCRL-52617.
- Downey, J.S., 1990
see Peterman, Z.E., et al., 1990
- Downey, J.S., 1992
see Peterman, Z.E., et al., 1992
- Doyle, A.C., 1963
see Moore, J.E., et al., 1963
- Doyle, A.C., and Meyer, G.L., 1982, Summary of hydraulic data and abridged lithologic log of ground-water test well 6 (J-13), Jackass Flats, Nevada Test Site, Nye County, Nevada: U.S. Geological Survey Report USGS-474-314 [NTS-50, 1963]
- Dozier, B.L., 1992
see Lindstrom, T.F., et al., 1992
- Dozier, B.L., 1993
see Ginanni, J.M., et al., 1993
- Dozier, B. L., and Rawlinson, S.E., 1991, The Nevada Test Site: Conceptual model for geology in Area 5: U.S. Dept. of Energy Report DOE/NV/10630-14.
- Drellack, S.L., 1982a
see Davies, W.J., et al., 1982
- Drellack, S.L., 1982b
see Gonzales, J.L., et al., 1982
- Drellack, S.L., 1985
see Gonzales, J.L., et al., 1985
- Drellack, S.L., 1988
see Thompson, P.H., and Drellack, S.L., 1988
- Drellack, S.L., 1989
see Rayburn, C.J., et al., 1989
- Drellack, S.L., 1992

- see Hawkins, W.L., et al., 1992
- Drellack, S.L., 1993
see Hawkins, W.L., et al., 1993
- Drellack, S.L., and Cavazos, A.P., 1986, Selected stratigraphic contacts for drill holes in LANL (Los Alamos National Laboratory) use areas of Yucca Flat, NTS (Nevada Test Site): U.S. Dept. of Energy Report DOE/NV/10322-8.
- Drellack, S.L., and Cavazos, A.P., 1987, Selected stratigraphic contacts for drill holes in LANL use areas of Yucca Flat, NTS (Nevada Test Site): U.S. Dept. of Energy Report DOE/NV/10322-26.
- Drellack, S.L., Davies, W.J., and Gonzales, J.L., 1983, Lithology and stratigraphy of selected drill holes in Areas 3 and 7, and the eastern parts of Areas 1 and 4, Nevada Test Site. Volume 4: U.S. Dept. of Energy Report DOE/NV/10322-4.
- Drellack, S.L., Gonzales, J.L., and Davies, W.J., 1982, Lithologic and geophysical logs of selected drill holes in Areas 1, 3, and 6, Nevada Test Site, v. 1: U.S. Dept. of Energy Report DOE/NV/10322-1.
- Drellack, S.L., Gonzales, J.L., and Davies, W.J., 1984, Lithology and stratigraphy of selected drill holes in LANL use areas of Yucca Flat, Nevada Test Site, v. 5: U.S. Dept. of Energy Report DOE/NV/10322-5.
- Drellack, S.L., McCall, R.L., and Allen, B.M., in preparation, Selected stratigraphic data for drill holes in the Lawrence Livermore National Laboratory use areas of Yucca Flat, Nevada Test Site: Bechtel, Las Vegas, Nev.
- Drellack, S.L., and Thompson, P.H., 1990, Selected stratigraphic data for drill holes in the Lawrence Livermore National Laboratory use areas of Yucca Flat, Nevada Test Site: U.S. Dept. of Energy Report DOE/NV-10322-39.
- Drellack, S.L., Thompson, P.H., and Rayburn, C.J., 1989a, Geology of the U-1a.01 horizontal drift complex, southwestern Yucca Flat, Nevada Test Site: U.S. Dept. of Energy Report DOE/NV/10322-37.
- Drellack, S.L., Thompson, P.H., and Rayburn, C.J., 1989b, Lithology and stratigraphy of drill holes completed during 1988 in LANL (Los Alamos National Laboratory) use areas of Yucca Flat, Nevada Test Site, v. 10: Geologic report: U.S. Dept. of Energy Report DOE/NV/10322-36.
- Duba, A.G., Abey, A.E., and Heard, H.C., 1973, High-pressure mechanical properties of an Area 12, Nevada Test Site tuff: Lawrence Livermore Laboratory Report UCID-16377.
- Dudley, W.W., 1972, Technique for predicting ground-water inflow to large underground openings: Transactions of the Society of Mechanical Engineers, v. 252, no. 2, p. 149-153.
- Dudley, W.W., 1977a, Suitability of Nevada Test Site for terminal storage of radioactive wastes: Abstracts with Programs--Geological Society of America, v. 9, no. 7, p. 957-958.
- Dudley, W.W., 1977b
see Hoffman, D.C., et al., 1977
- Dudley, W.W., 1984
see Ander, H.D., et al., 1984
- Dudley, W.W., 1988
see Sass, J.H., et al., 1988

Dudley, W.W., 1994

see Fridrich, C.J., et al., 1994

Dudley, W.W., Wollitz, L.E., Baldwin, D.A., and Claassen, H.C., 1971, Geologic and hydrologic effects of the Handley event, Pahute Mesa, Nevada Test Site: Effects on wells and aquifers: U.S. Geological Survey Report USGS-474-95 [Special Studies-83]

Duff, R.E., 1978, Comments on the strength of Area 12 tuff (Topical report November 1977-February 1978): Systems Science and Software, La Jolla, Calif., Report DNA-4526T (NTIS AD-A056 320)

Duffy, C.J., 1979

see Erdal, B.R., et al., 1979

Duggar, J., 1992

see Cranswick, Edward, et al., 1992

Duncan, Helen, 1965

see Poole, F.G., et al., 1965

Duncan, S.W., 1971

see Green, S.J., et al., 1971

Dunn, L., 1971

see Bliss, W.A., and Dunn, L., 1971

Durbin, T.J., 1994

see Avon, Lizanne and Durbin, T.J., 1994

Durham, H.B., 1987

see Chael, E.P., et al., 1987

Durham, W.B., 1985

see Beiriger, J.M., et al., 1985

DuVal, V.L., 1971

see Morris, G.A., et al., 1971

Eakin, T.E., 1962

see Malmberg, G.T. and Eakin, T.E., 1962

Eakin, T.E., 1963

see Walker, G.E., and Eakin, T.E., 1963

Eakin, T.E., 1964

see Malmberg, G.T., and Eakin, T.E., 1964

Eakin, T.E., Maxey, G.B., Robinson, T.W., Fredricks, J.C., and Loeltz, O.J., 1951, Contributions to the hydrology of eastern Nevada: Nevada State Engineer, Water Resources Bulletin 12.

Eakin, T.E., Schoff, S.L., and Cohen, Philip, 1963, Regional hydrology of a part of southern Nevada: a reconnaissance: U.S. Geological Survey Open-File Report TEI-833.

Eakin, T.E., and Winograd, I.J., 1965, Interbasin movement of ground water in south-central Nevada: Some implications [abs.]: Geological Society of America Special Paper no. 82, p. 52.

Early, C., 1992

see Cranswick, Edward, et al., 1992

Ebeling, L.E., 1990

see Daffern, D.D., et al., 1990

Eberhardt, L.L., 1975

see Essington, E.H., et al., 1975

Eberle, W.R., and Bigelow, R.C., 1973, Electrical dispersion characteristics of selected rock and soil samples from the Nevada Test Site: U.S. Geological Survey Report USGS-474-162 [Special Projects-34]

Eckel, E.B., 1959, Geology applied to underground nuclear tests [abs.]: Geological Society of America Bulletin, v. 70, no. 12, pt. 2, p. 1595.

Eckel, E.B., 1962

see Houser, F.N., and Eckel, E.B., 1962

Eckel, E.B., 1968a, Development of geologic knowledge at Nevada Test Site, *in* Eckel, E.B., ed., Nevada Test Site: Geological Society of America Memoir 110, p. 5-10.

Eckel, E.B., ed., 1968b, Nevada Test Site: Geological Society of America Memoir 110, 290 p.

Eckel, E.B., 1978

see Hoover, D.L., et al., 1978

Eddy, P.A., 1989

see Raymond, J.R., et al., 1989

Edkins, John, 1990

see Lyles, B.F., et al., 1990

Edquist, Ronald, 1981

see Smith, Christian, et al., 1981

Edwards, C.L., 1993

see Pearson, D.C., et al., 1993

Edwards, C.L., Harper, M.D., Weaver, T.A., Cash, D.J., and Ray, J.M., 1981, Los Alamos close-in seismic program at the Nevada Test Site: Los Alamos National Laboratory Report LA-UR-83-1524.

Edwards, C.L., Harper, M.D., Weaver, T.A., Cash, D.J., and Ray, J.M., 1983, Microquake activity associated with underground nuclear testing at the Nevada Test Site: Los Alamos National Laboratory Report LA-8552-MS.

Efurd, D.W., 1994, Vadose zone drilling at the NTS: Los Alamos National Laboratory Report LA-UR-94-2245.

EG&G Energy Measurements, Inc., 1987, Review of aerial radiological surveys of Nevada Test Site fallout fields 1951 through 1970: U.S. Dept. of Energy Report NVO-314.

- Ege, J.R., 1964
see Johnson, R.B., and Ege, J.R., 1964
- Ege, J.R., 1975
see Miller, C.H., et al., 1975
- Ege, J.R., 1976a
see Dodge, H.W., Jr., et al., 1976
- Ege, J.R., 1976b
see Ellis, W.L., and Ege, J.R., 1976
- Ege, J.R., 1977, In situ stress measured at Rainier Mesa, Nevada, and a few geologic implications: Colorado School of Mines unpublished Ph.D. dissertation.
- Ege, J.R., Carroll, R.D., Magner, J.E., and Cunningham, D.R., 1980a, U.S. Geological Survey investigations in the U12n.03 drift, Rainier Mesa, Area 12, Nevada Test Site, Nevada: U.S. Geological Survey Open-File Report 80-1074.
- Ege, J.R., and Cunningham, M.J., 1976, Geology of the U12n.10 UG-1 horizontal drill hole, Rainier Mesa, Area 12, Nevada Test Site: U.S. Geological Survey Report USGS-474-218 [Area 12-39]
- Ege, J.R., Danilchuk, Walter, and Feazel, C.T., 1980b, Geology of the U12n.02 (Midi Mist) drift, and postshot observations, Rainier Mesa, Area 12, Nevada Test Site: U.S. Geological Survey Report USGS-474-229 [Area 12-45]
- Ege, J.R., Dodge, H.W., Jr., Miller, D.R., and Magner, J.E., 1976, Determination of in situ stress in U12t.02 Sri alcove, Aqueduct Mesa, NTS: U.S. Geological Survey Report 474-236.
- Ege, J.R., Miller, D.R., and Danilchuk, Walter, 1970, Schmidt hammer test method for field determination of physical properties of zeolitized tuff, Nevada Test Site, Nevada: U.S. Geological Survey Open-File Report.
- Ekren, E.B., 1968a, Geologic setting of Nevada Test Site and Nellis Air Force Range, in Eckel, E.B., ed., Nevada Test Site: Geological Society of America Memoir 110, p. 11-19.
- Ekren, E.B., 1968b
see Anderson, R.E. and Ekren, E.B., 1968
- Ekren, E.B., 1968c
see Noble, D.C., et al., 1968
- Ekren, E.B., 1968d
see Rogers, C.L., et al., 1968
- Ekren, E.B., 1973
see Dixon, G.L., et al., 1973
- Ekren, E.B., 1982
see Barnes, Harley, et al., 1982
- Ekren, E.B., Anderson, R.E., Orkild, P.P., and Hinrichs, E.N., 1965, Geologic map of the Silent Butte quadrangle, Nye County, Nevada: U.S. Geological Survey Geologic Quadrangle Map GQ-493, scale 1:24,000 [TEI-850]

Ekren, E.B., Byers, F.M., Jr., Carr, W.J., Dixon, G.L., Dodge, H.W., Jr., Hedlund, D.C., Hinrichs, E.N., Hoover, D.L., Quinlivan, W.D., Rogers, C.L., and Snyder, R.P., 1968a, Preliminary geologic map of the Hot Creek Valley, Nye County, Nevada: U.S. Geological Survey Interagency Report Central Nevada-3.

Ekren, E.B., Rogers, C.L., Anderson, R.E., and Orkild, P.P., 1968b, Age of Basin and Range normal faults in Nevada Test Site and Nellis Air Force Range, Nevada, *in* Eckel, E.B., ed., Nevada Test Site: Geological Society of America Memoir 110, p. 247-250.

Elliot, Bertrand, 1980
see Barnes, M.G., et al., 1980

Elliot, Bertrand, 1982, An investigation of selected water quality parameters in the Amargosa drainage basin: Desert Research Institute Report 45309 [DOE/NV/10162-18]

Elliot, Bertrand, 1984
see French, R.H., et al., 1984

Ellis, W.L., 1970
see Dickey, D.D., and Ellis, W.L., 1970

Ellis, W.L., 1975
see Miller, C.H., et al., 1975

Ellis, W.L., 1979
see Fairer, G.M., et al., 1979

Ellis, W.L., 1982a
see Healy, J.H., et al., 1982

Ellis, W.L., 1982b
see Townsend, D.R., et al., 1982

Ellis, W.L., 1983, Hydraulic fracturing measurements in two boreholes near the Spent Fuel Test--Climax Stock, Nevada Test Site: U.S. Geological Survey Open-File Report 83-406.

Ellis, W.L., 1984
see Healy, J.H., et al., 1984

Ellis, W.L., and Ege, J.R., 1976, Determination of in situ stresses in U12g tunnel, Rainier Mesa, Nevada Test Site, Nevada: U.S. Geological Survey Report USGS-474-219 [Area 12-37]

Ellis, W.L., and Kibler, J.E., 1983, Explosion-induced stress changes estimated from vibrating-wire stressmeter measurements near the Mighty Epic event, Nevada Test Site: U.S. Geological Survey Open-File Report 83-642.

Ellis, W.L., and Magner, J.E., 1980, Compilation of results of three-dimensional stress determinations made in Rainier and Aqueduct mesas, Nevada Test Site, Nevada: U.S. Geological Survey Open-File Report 80-1098.

Ellis, W.L., and Magner, J.E., 1982, Determination of the in situ state of stress at the Spent Fuel Test--Climax site, Climax Stock, Nevada Test Site: U.S. Geological Survey Open-File Report 82-458.

Ellis, W.L., and Snyder, R.P., 1974, Asymmetry of collapse sinks in Yucca Flat, Nevada Test Site, Nevada: U.S. Geological Survey Report USGS-474-180 [NTS-243]

- Elmore, D., 1987
see Norris, A.E., et al., 1987
- Elmore, D., 1988
see Ogard, A.E., et al., 1988
- Elwood, Rebecca, McKague, H.L., and Wagoner, J.L., 1985a, Evidence for listric faults in Yucca Flat alluvium, Nevada Test Site: Abstracts with Programs--Geological Society of America, v. 17, no. 4, p. 217.
- Elwood, Rebecca, McKague, H.L., and Wagoner, J.L., 1985, Evidence for syntectonic activity during alluvial deposition, Yucca Flat, Nevada: Lawrence Livermore National Laboratory Report UCRL-93405.
- Elzeftawy, Atef, 1984
see French, R.H., et al., 1984
- Emer, D.F., 1993a
see Ginanni, J.M., 1993
- Emer, D.F., 1993b
see Lindstrom, F.T., et al., 1993
- Emer, D.F., and King, K.M., 1988, Conceptual outline and plan for the monitoring of mixed low-level waste at the NTS; Pit 3 - vadose zone monitoring system: Reynolds Electrical and Engineering Co. Report RWM-18.
- Emerick, W.L., 1961a, Summary of the lithology of the U3ah site, NTS: U.S. Geological Survey Technical Letter Yucca-3 Supplement 1.
- Emerick, W.L., 1961b
see Dickey, D.D., and Emerick, W.L., 1961
- Emerick, W.L., 1961c
see Houser, F.N., et al., 1961
- Emerick, W.L., 1962a, Interim geological investigations in the U12e.06 tunnel, Nevada Test Site, Nye County, Nevada, *with a section on Gamma-radioactivity*, by C.M. Bunker: U.S. Geological Survey Open-File Report [TEI-773]
- Emerick, W.L., 1962b
see Dickey, D.D., and Emerick, W.L., 1962
- Emerick, W.L., 1963
see Williams, W.P., et al., 1963
- Emerick, W.L., 1964
see Houser, F.N., and Emerick, W.L., 1964
- Emerick, W.L., 1965, Summary of pertinent geologic and hydrologic data at the U5e site, Nevada Test Site: U.S. Geological Survey Technical Letter PBD-63 (1s) dated May 7, 1965.
- Emerick, W.L., 1969
see Christiansen, R.L., et al., 1969

Emerick, W.L., 1983, Exploratory drill holes UE1a, UE1b, and UE1c, Yucca Flat: U.S. Geological Survey Report USGS-474-317 [Yucca-54, 1964]

Emerick, W.L., and Dickey, D.D., 1962, Interim geological investigations in the U12e.03a and U12e.03b tunnels, Nevada Test Site, Nye County, Nevada, *with a section on Gamma-radioactivity survey of U12e.03a tunnel*, by C.M. Bunker: U.S. Geological Survey Open-File Report [TEI-806]

Emerick, W.L., Dickey, D.D., and McKeown, F.A., 1962, Interim geological investigations in the U12e.04 tunnel, Nevada Test Site, Nye County, Nevada: U.S. Geological Survey Open-File Report [TEI-776]

Emerick, W.L., and Houser, F.N., 1962, Interim geological investigations in the U12b.08 tunnel, Nevada Test Site, Nye County, Nevada: U.S. Geological Survey Open-File Report [TEI-814]

Emmanuel, K.M., 1983
see Connolly, J.R., et al., 1983

Engle, C.M., 1995
see Sawyer, D.A., et al., 1995

Environmental Research Corporation, 1974, Prediction of ground motion characteristics of underground nuclear detonation: U.S. Dept. of Energy Report NVO-1163-239.

Environmental statement, underground nuclear test program, Nevada Test Site, 1973: U.S. Atomic Energy Commission Report WASH-1526.

Erdal, B.R., 1978
see Daniels, W.R., et al., 1978

Erdal, B.R., 1979a, Laboratory studies of radionuclide distributions between selected groundwaters and geologic media October 1-December 31, 1978: Los Alamos Scientific Laboratory Report LA-7638-PR.

Erdal, B.R., 1979b, Laboratory studies of radionuclide distributions between selected groundwaters and geologic media January 1-March 31, 1979: Los Alamos Scientific Laboratory Report LA-7780-PR.

Erdal, B.R., 1979c, Laboratory studies of radionuclide distributions between selected groundwaters and geologic media April 1-June 30, 1979: Los Alamos Scientific Laboratory Report LA-7893-PR.

Erdal, B.R., 1979d
see Wolfsberg, Kurt, et al., 1979

Erdal, B.R., 1980a, Laboratory studies of radionuclide distributions between selected groundwaters and geologic media October 1, 1978-September 30, 1979: Los Alamos Scientific Laboratory Report LA-8088-PR.

Erdal, B.R., 1980b, Laboratory studies of radionuclide distributions between selected groundwaters and geologic media October 1-December 31, 1979: Los Alamos Scientific Laboratory Report LA-8210-PR.

Erdal, B.R., 1980c, Laboratory studies of radionuclide distributions between selected groundwaters and geologic media January 1-March 31, 1980: Los Alamos Scientific Laboratory Report LA-8339-PR.

Erdal, B.R., 1980d, Laboratory studies of radionuclide distributions between selected groundwaters and geologic media April 1-June 30, 1980: Los Alamos Scientific Laboratory Report LA-8472-PR.

Erdal, B.R., 1980e
see Wolfsberg, Kurt, et al., 1980

Erdal, B.R., 1982a
see Daniels, W.R., et al., 1982a

Erdal, B.R., 1982b
see Daniels, W.R., et al., 1982c

Erdal, B.R., 1983
see Daniels, W.R., et al., 1983

Erdal, B.R., Aguilar, R.D., Bayhurst, B.P., Daniels, W.R., and Duffy, C., 1979, Sorption-desorption studies on granite: I. Initial studies of strontium, technetium, cesium, barium, cerium, europium, uranium, plutonium, and americium: Los Alamos National Laboratory Report LA-7456-MS.

Erdal, B.R., Daniels, W.R., Hoffman, D.C., Lawrence, F.O., and Wolfsberg, Kurt, 1978a, Sorption and migration of radionuclides in geologic media: Los Alamos National Laboratory Report LA-UR-78-2746.

Erdal, B.R., Daniels, W.R., Hoffman, D.C., Lawrence, F.O., and Wolfsberg, Kurt, 1978b, Sorption and migration of radionuclides in geologic media, *in* Scientific basis for nuclear waste management, v. 1 (also U.S. Dept. of Energy Report CONF-781121-6).

Erickson, J.R., and Waddell, R.K., 1985, Identification and characterization of hydrologic properties of fractured tuff using hydraulic and tracer tests--test well USW H-4, Yucca Mountain, Nye County, Nevada: U.S. Geological Survey Water-Resources Investigations Report 85-4066.

Erickson, K.L., 1978, Rate expressions for analysis of radionuclide migration of fluid flow through jointed media: EOS, Transactions, American Geophysical Union, v. 59, no. 12, p. 1224.

Erickson, K.L., and Fortney, D.R., 1981a, Experimental and theoretical analyses of small-scale radionuclide migration field experiments: Sandia National Laboratory Report SAND-81-2185C.

Erickson, K.L., and Fortney, D.R., 1981b, Preliminary transport analyses for design of the tuff radionuclide-migration field experiment: Sandia National Laboratories Report SAND-81-1253.

Erikson, S.J., 1987
see Pottorff, E.J., et al., 1987

Erikson, S.J., 1991, Report of drilling and radionuclide migration investigations at UE-20n#1, Pahute Mesa, Nevada Test Site, 1987: Desert Research Institute Report 45081 [DOE/NV/10384-35]

Erikson, S.J., and Jacobson, R.L., in press, Overview of radionuclide migration investigations conducted on the Nevada Test Site: Desert Research Institute Report 45071.

Erskine, D.J., Nellis, W.J., and Weir, S.T., 1994, Shock wave profile study of tuff from the Nevada Test Site: Journal of Geophysical Research, B, Solid earth and planets, v. 99, no. 8, p. 15,529-15,537.

Ervin, E.M., Luckey, R.R., and Burkhardt, D.J., 1993, Revised potentiometric-surface map, Yucca Mountain and vicinity, Nevada: U.S. Geological Survey Water-Resources Investigations Report 93-4000.

Eshom, E.P., 1982

- see Langkopf, B.S., and Eshom, E.P., 1982
- Eshom, E.P., 1984
see Whitfield, M.S., et al., 1984
- Eshom, E.P., 1985
see Whitfield, M.S., et al., 1985
- Espinosa, A.F., 1984
see Brockman, S.R., et al., 1984
- Esser, B.K., 1995
see Smith, D.K., et al., 1995
- Esser, B.K., 1996
see Smith, D.K., et al., 1996
- Essington, E.H., 1971
see Nork, W.E., et al., 1971
- Essington, E.H., 1987
see Lee, S.Y., et al., 1987
- Essington, E.H., Fenske, P.R., and Nork, W.E., 1970, Radioactivity in water, Project Milrow: Teledyne Isotopes Report NVO-1229-135.
- Essington, E.H., Gilbert, R.O., Eberhardt, L.L., and Fowler, E.B., 1975, Plutonium, americium, and uranium concentrations in Nevada Test Site soil profiles: Los Alamos Scientific Laboratory Report LA-UR-75-1770.
- Essington, E.H., Gilbert, R.O., Wireman, D.L., Brady, D.N., and Fowler, E.B., 1977, Plutonium, americium, and uranium in blow-sand mounds of safety-shot sites at the Nevada Test Site and Tonopah Test Range, *in* White, M.G., Dunaway, P.B., and Wireman, D.L., eds., *Transuranics in desert ecosystems*: U.S. Dept. of Energy Report NVO-181, p. 81-146.
- Essington, E.H., and Sharp, J.V.A., 1968, Some aspects of ground-water solution chemistry, underground nuclear explosion zones, Nevada Test Site, *in* Eckel, E.B., ed., *Nevada Test Site: Geological Society of America Memoir* 110, p. 263-273.
- Estrella, Rocio, 1994a, Fate and transport processes controlling the migration of hazardous and radioactive materials from the Area 5 radioactive waste management site (RWMS): DRI Report 45134 [DOE/NV/10845-53]
- Estrella, Rocio, 1994b
see Albright, W., et al., 1994
- Estrella, Rocio, Tyler, S.W., Chapman, J.B., and Miller, M., 1993, Area 5 site characterization project-report of hydraulic property analysis through August 1993: Desert Research Institute Report 45121 [DOE/NV/10845-41]
- Evans, J.R., 1982
see Monfort, M.E., and Evans, J.R., 1982
- Evans, R., 1986
see Silva, R.J., et al., 1986

- Evans, R., 1987
see Silva, R.J., et al., 1987
- Evans, R., 1988
see Silva, R.J., et al., 1988
- Failor, R.A., Coles, D.G., and Rego, J.H., 1983, A Leaching study of nuclear melt glass: Part I: Lawrence Livermore Laboratory Report UCID-19729.
- Fairer, G.M., 1974
see Miller, C.H., et al., 1974
- Fairer, G.M., 1975, Geology of the UE12n-6 vertical drill hole, Nevada Test Site: U.S. Geological Survey Report USGS-474-208 [Area 12-36]
- Fairer, G.M., 1978
see Steele, S.G., and Fairer, G.M., 1978
- Fairer, G.M., Townsend, D.R., Carroll, R.D., Cunningham, M.J., Muller, D.C., Healey, D.L., and Ellis, W.L., 1979, USGS investigations in connection with the Mighty Epic event, U12n.10 tunnel, Nevada Test Site: U.S. Geological Survey Report 474-228.
- Faller, S.H., 1989
see Holloway, R.W., et al., 1989
- Farrell, W.E., 1981
see Barker, T.G., et al., 1981
- Farvolden, R.N., 1965
see Maxey, G.B., and Farvolden, R.N., 1965
- Faunt, C.C., 1994, Characterization of the three-dimensional hydrogeologic framework of the Death Valley region, Nevada and California: Colorado School of Mines unpublished Ph.D. dissertation.
- Feazel, C.T., 1980
see Ege, J.R., et al., 1980
- Feeney, T.A., Campana, M.E., and Jacobson, R.L., 1987, A deuterium-calibrated groundwater flow model of the western Nevada Test Site and vicinity: Desert Research Institute Report 45057 [DOE/NV/10384-16]
- Feimster, E.L., 1979
see Fritzsche, A.E., et al., 1979
- Felch, R.N., Ferguson, J.F., Aiken, C.L.V., and Oldow, J.S., 1979, A three-dimensional gravity analysis of Yucca Flat, Nevada, utilizing borehole data and seismic reflection profiling: EOS, Transactions, American Geophysical Union, v. 60, no. 46, p. 954.
- Fenix and Scisson, 1986a, NNWSI (Nevada Nuclear Waste Storage Investigations) hole histories: UE-25A No.1, UE-25A No. 3, UE-25A No. 4, UE-25A No. 5, UE-25A No. 6, UE-25A No. 7: U.S. Dept. of Energy Report DOE/NV/10322-9.
- Fenix and Scisson, 1986b, NNWSI (Nevada Nuclear Waste Storage Investigations) hole histories: UE-25C No.1, UE-

25C No. 2, UE-25C No. 3: U.S. Dept. of Energy Report DOE/NV/10322-14.

Fenix and Scisson, 1986c, NNWSI (Nevada Nuclear Waste Storage Investigations) hole histories: UE-29A No.1, UE-29A No. 2: U.S. Dept. of Energy Report DOE/NV/10322-12.

Fenix and Scisson, 1986d, NNWSI (Nevada Nuclear Waste Storage Investigations) hole histories: USW VH-1, USW VH-2: U.S. Dept. of Energy Report DOE/NV/10322-17.

Fenix and Scisson, 1986e, NNWSI (Nevada Nuclear Waste Storage Investigations) hole history: UE-25H No. 1: U.S. Dept. of Energy Report DOE/NV/10322-15.

Fenix and Scisson, 1986f, NNWSI (Nevada Nuclear Waste Storage Investigations) hole history: UE-25P No. 1: U.S. Dept. of Energy Report DOE/NV/10322-16.

Fenix and Scisson, 1987a, NNWSI (Nevada Nuclear Waste Storage Investigations) hole histories: USW G-1, USW G-2, USW G-3, USW G-4, USW GA-1, USW GU-3: U.S. Dept. of Energy Report DOE/NV/10322-19.

Fenix and Scisson, 1987b, NNWSI (Nevada Nuclear Waste Storage Investigations) hole histories: USW UZ-1, UE-25 UZ No. 4, UE-25 UZ No. 5, USW UZ-6, USW UZ-6S, USW UZ-7, USW UZ-8, USW UZ-13: U.S. Dept. of Energy Report DOE/NV/10322-20.

Fenske, P.R., 1970
see Essington, E.H., et al., 1970

Fenske, P.R., 1971
see Carnahan, C.L., and Fenske, P.R., 1971

Fenske, P.R., 1974
see Maxey, G.B., and Fenske, P.R., 1974

Fenske, P.R., 1975
see Carnahan, C.L., and Fenske, P.R., 1975

Fenske, P.R., 1978, Interaquifer leakage through uncased borehole penetrations, Yucca Valley, Nevada Test Site: Desert Research Institute Report 45013 [NVO/1253-13]

Fenske, P.R., 1986
see Blankennagel, R.K., et al., 1986

Fenske, P.R., and Carnahan, C.L., 1976, Water table and related maps for Nevada Test Site and Central Nevada Test Area: Desert Research Institute Report 45009 [NVO/1253-9]

Fenske, P.R., and Charnell, R.L., 1971, Infill of nuclear rubble chimneys by ground-water: Teledyne Isotopes Report NVO-1229-171.

Fenske, P.R., and Charnell, R.L., 1972, Infill of nuclear rubble chimneys by ground water: Ground Water, v. 10, no. 3, p. 10-17.

Fenster, D.F., 1991
see Kroitoru, Levy, et al., 1991

Ferguson, J.F., 1979

- see Felch, R.N., et al., 1979
- Ferguson, J.F., 1981, Geophysical investigations of Yucca Flat, Nevada: Southern Methodist University unpublished Ph.D. dissertation.
- Ferguson, J.F., Cogbill, A.H., and Warren, R.G., 1994, A geophysical-geological transect of the Silent Canyon Caldera complex, Pahute Mesa, Nevada: *Journal of Geophysical Research*, v.99, no.33, p. 4329-4339.
- Ferguson, John, 1979
see Herrin, Eugene, et al., 1979
- Ferguson, R.B., 1982, Remote-reference magnetotelluric survey, Nevada Test Site and vicinity, Nevada and California: U.S. Geological Survey Open-File Report 82-465.
- Fernald, A.T., 1970, Thickness of surficial deposits and tuff in Yucca Flat, Nevada Test Site: U.S. Geological Survey Report USGS-474-86 [NTS-224]
- Fernald, A.T., 1979, Map of the tuff aquitard (lower tuff units) in Yucca Flat, Nevada Test Site: U.S. Geological Survey Report USGS-474-262 [NTS-263]
- Fernald, A.T., 1981
see Twenhofel, W.S., et al., 1981
- Fernald, A.T., 1983a, Study of the Area 3 Sandpile, southeastern Yucca Flat, Nevada Test Site: Part I--Geology: U.S. Geological Survey Report USGS-474-315 [NTS-264]
- Fernald, A.T., 1983b
see Twenhofel, W.S., et al., 1983
- Fernald, A.T., Byers, F.M., Jr., and Ohl, J.P., 1975, Lithologic logs and stratigraphic identification of exploratory and emplacement holes in Areas 1 and 6, Nevada Test Site: U.S. Geological Survey Report USGS-474-206 [NTS-256]
- Fernald, A.T., Corchary, G.S., and Williams, W.P., 1968a, Surficial geologic map of Yucca Flat, Nye and Lincoln counties, Nevada: U.S. Geological Survey Miscellaneous Geologic Investigations Map I-550, scale 1:48,000.
- Fernald, A.T., Corchary, G.S., Williams, W.P., and Colton, R.P., 1968b, Surficial deposits of Yucca Flat area, Nevada Test Site, *in* Eckel, E.B., ed., Nevada Test Site: Geological Society of America Memoir 110, p. 49-55.
- Fernald, A.T., Dixon, G.L., Carr, W.J., and Byers, F.M., Jr., 1965, Geologic report on drill hole Ue-11a, Nevada Test Site: U.S. Geological Survey Technical Letter NTS-160 dated December 17, 1965.
- Feuerbach, D.L., 1991
see Naumann, T.R., et al., 1991
- Fiero, G.W., and Illian, J.R., 1969: Regional hydrology, Hot Creek Valley flow system, Nye County, Nevada: Desert Research Institute Report 44006.
- Fiero, G.W., Mindling, A.W., and Illian, J.R., 1968, Section B: Regional groundwater flow systems of central Nevada: Desert Research Institute Report 44005.
- Finkel, R.C., 1989
see Buddemeier, R.W., et al., 1989

- Finkel, R.C., 1991
see Buddemeier, R.W., et al., 1991
- Fischer, F.G., 1971
see Hamilton, R.M., et al., 1971
- Fischer, F.G., 1972
see Hamilton, R.M., et al., 1972
- Fischer, F.G., Papanek, P.J., and Hamilton, R.M., 1972, The Massachusetts Mountain earthquake of 5 August 1971 and its aftershocks, Nevada Test Site: U.S. Geological Survey Report USGS-474-149 [NTS-238]
- Fitterman, D.V., 1982, Magnetometric resistivity survey near Forty Mile Wash, Nevada Test Site, Nevada: U.S. Geological Survey Open-File Report 82-401.
- Flanders, P.L., 1961
see Adams, W.M., et al., 1961
- Flanigan, V.J., 1979, Slingram survey on the Nevada Test Site: part of an integrated geologic-geophysical study of site evaluation for nuclear waste disposal: U.S. Geological Survey Open-File Report 79-277.
- Flanigan, V.J., 1982
see Hoover, D.B., et al., 1982
- Flanigan, V.J., 1984
see Scott, R.B., et al., 1984
- Fleck, R.J., 1974
see Burchfiel, B.C., et al., 1974
- Fleck, R.J., 1980a
see Crowe, B.M., et al., 1980
- Fleck, R.J., 1980b
see Vaniman, D.T., et al., 1980
- Fleck, R.J., 1990
see Sawyer, D.A., et al., 1990
- Fleck, R.J., 1993
see Minor, S.A., et al., 1993
- Fleck, R.J., 1994
see Sawyer, D.A., et al., 1994
- Fleischer, R.L., Woods, R.T., Hart, H.R., Jr., Price, P.B., and Short, N.M., 1974, Effect of shock on fission track dating of apatite and sphene crystals from the Hardhat and Sedan underground nuclear explosions: *Journal of Geophysical Research*, v. 79, no. 2, p. 339-342.
- Flexser, Steve, and Wollenberg, H.A., 1992, Radioelements and their occurrence with secondary minerals in heated and unheated tuff at the Nevada Test Site: Lawrence Berkeley Laboratory Report LBL-31666.

Foglesong, M.T., 1991, Water-related scientific activities of the U.S. Geological Survey in Nevada, fiscal years 1989-90: U.S. Geological Survey Open-File Report 91-516.

Foglesong, M.T., 1993, Water-related scientific activities of the U.S. Geological Survey in Nevada, fiscal years 1991-92: U.S. Geological Survey Open-File Report 93-97.

Foley, M.G., 1989

see Raymond, J.R., et al., 1989

Foley, M.G., Heasler, P.G., Hoover, K.A., Rynes, N.J., and Thiessen, R.L., 1991, Remote geologic structural analysis of Yucca Flat: Battelle Pacific Northwest Report PNL-7887.

Foley, T.A., 1981, NTS radiological assessment project: comparison of delta surface interpolation with kriging for the Frenchman Lake region of Area 5: Desert Research Institute Report 45022 [NVO/1253-22 and DOE/DP/01253-45022]

Followill, F.E., 1993

see Nakanish, K.K., et al., 1993

Forslow, E.J., 1971

see Nork, W.E., et al., 1971

Fortney, D.R., 1981

see Erickson, K.L., and Fortney, D.R., 1981

Fowler, E.B., 1975

see Essington, E.H., et al., 1975

Fowler, E.B., 1977

see Essington, E.H., et al., 1977

Fraser, S.L., 1983

see Hoffman, D.C., et al., 1983

Frazier, G.A., 1991

see Livingston, D.E., et al., 1991

Fredricks, J.C., 1951

see Eakin, T.E., et al., 1951

Fredrickson, J.K., 1993

see Kieft, T.L., et al., 1993

French, R.H., 1980, Interim report on flash floods, Area 5 - Nevada Test Site: Desert Research Institute Report 45019 [NVO/1253-19]

French, R.H., 1984a, Assessment of flood risk to facilities sited on alluvial fans at the Nevada Test site: Abstracts with Programs--Geological Society of America, v. 16, no. 6, p. 512.

French, R.H., 1984b

see Case, C.M., et al., 1984

French, R.H., 1987, Effect of length of precipitation record on recharge estimates, in Feldman, A.D., ed.,

Engineering hydrology; proceedings of the symposium: American Society of Civil Engineers, p. 347-352.

French, R.H., Elzeftawy, Atef, Bird, J.W., and Elliot, Bertrand, 1984a, Hydrology and water resources overview for the Nevada Nuclear Waste Storage Investigations, Nevada Test Site, Nye County, Nevada: U.S. Dept. of Energy Report NVO-284.

French, R.H., Elzeftawy, Atef, and Elliot, Bertrand, 1984b, Hydrology and water resources overview for the Nevada Nuclear Waste Storage Investigations, Nevada Test Site, Nye County, Nevada: Annotated bibliography: U.S. Dept. of Energy Report NVO-283.

French, R.H., and Hess, J.W., in press, Radionuclide transport by surface water; preliminary studies in Fortymile Canyon: Desert Research Institute Report 45047 [DOE/NV/10384-06]

French, R.H., and Jacobson, R.L., 1994, Threshold precipitation events and groundwater recharge, in Cotroneo, G.V., and Rumer, R.R., eds., Hydraulic engineering '94: American Society of Civil Engineers, p. 298-302.

French, R.H., and Lombardo, W.S., 1984, Assessment of flood hazard at the radioactive waste management site in Area 5 of the Nevada Test Site: Desert Research Institute report 45036 [DOE/NVO/10162-15]

Friberg, R.S., 1989

see Abbott, E.W., et al., 1989

Fridrich, C.J., Dudley, W.W., Jr., and Stuckless, J.S., 1994, Hydrogeologic analysis of the saturated-zone ground-water system under Yucca Mountain, Nevada: Journal of Hydrology, v. 154, p. 133-168.

Fridrich, C.J., and O'Leary, Dennis, 1993, Does the Walker Lane extend through the Nevada Test Site region?: Abstracts with Programs--Geological Society of America, v. 25, no. 5, p. 39.

Fried, Sherman, 1979, A field study of radionuclide migration, in Radioactive waste in geologic storage: ACS Symposium Series no. 100, p. 149-166.

Frischknecht, F.C., and Raab, P.V., 1984, Time-domain electromagnetic soundings at the Nevada Test Site, Nevada: Geophysics, v. 49, no. 7, p. 981-992.

Fritzsche, A.E., Clark, H.W., and Feimster, E.L., 1979, An area radiological survey of Areas 1, 2, 3, 4, 6, 7, 8, 9, 10, 11, 12, 13, 15, 17, 18, 20, 25, and 26, of Yucca Flat, Nevada Test Site, Nevada: EG&G Reports EGG-1183-1808, EGG-20282-1004, EGG-1183-1752, EGG-1082-1093, and EGG-1183-1745.

Frizzell, V.A., Jr., 1993

see Minor, S.A., et al., 1993

Frizzell, V.A., Jr., and Shulters, Jacqueline, 1990, Geologic map of the Nevada Test Site, southern Nevada: U.S. Geological Survey Miscellaneous Geologic Investigations Map I-2046, 1 sheet, scale 1:100,000.

Froula, N.H., Suenaga, E.L., and Bryson, R.L., 1972, Shock compression and release behavior of two Nevada Test Site tuffs: Systems Science and Software, La Jolla, Calif., Report 3SR-973.

Fry, C.O., 1993

see Shinn, J.H., et al., 1993

Fujii, L.M., 1991

see Schulz, R.K., et al., 1991

Gadenken, L., 1991
see Mathews, M.A., et al., 1991

Gadenken, L., 1994
see Mathews, M.A., et al., 1994

Gallegos, D.P., 1992
see Thoma, S.G., et al., 1992

Galloway, Devin, 1986, Estimates of confined and unconfined aquifer characteristics from ground-water level fluctuations induced by earth tides and barometric fluctuations, Yucca Mountain [abs.]: EOS, Transactions, American Geophysical Union, v. 67, no. 44, p. 942.

Garber, M.S., 1962a
see Moore, J.E., and Garber, M.S., 1962

Garber, M.S., 1962b
see Thordarson, William, et al., 1962

Garber, M.S., 1963a, Large rise and following decline of water level in Well 7 Area 3, Nevada Test Site, an effect from the Aardvark underground nuclear explosion: U.S. Geological Survey Technical Letter Yucca-48.

Garber, M.S., 1963b
see Hale, W.E., et al., 1963

Garber, M.S., 1965, Water-level rise in the Bilby chimney, Yucca Flat, Nevada Test Site: U.S. Geological Survey Technical Letter NTS-115.

Garber, M.S., 1971a, Hydraulic-test and quality-of-water data from hole U3cn PS#2, Bilby site, Nevada Test Site: U.S. Geological Survey Report USGS-474-105 [NTS-230]

Garber, M.S., 1971b, A method for estimating effective porosity in a rubble chimney formed by an underground nuclear explosion, in U.S. Geological Survey Research 1971: U.S. Geological Survey Professional Paper 750-C, p. C207-C209.

Garber, M.S., and Johnston, R.H., 1967, A summary of lithologic data, aquifer tests, and construction of hydraulic test well U3cn-5, Nevada Test Site: U.S. Geological Survey Technical Letter NTS-200.

Garber, M.S., and Koopman, F.C., 1968, Methods of measuring water levels in deep wells (a discussion of the techniques developed at the Nevada Test Site and other locations): U.S. Geological Survey Techniques of Water Resources Investigations, Book 8, Chapter A1.

Garber, M.S., and Thordarson, William, 1962, Ground water test well C, Nevada Test Site, Nye County, Nevada: U.S. Geological Survey Open-File Report [TEI-818]

Garber, M.S. and Wollitz, L.E., 1969, Measuring underground-explosion effects on water levels in surrounding aquifers: Ground Water, v. 7, no. 4, p. 3-7.

Garcia, A.A., Mensing, R.W., and Wagoner, J.L., 1991, Using quantitative analysis techniques to predict successful drilling of large-diameter deep holes, Yucca Flat, the Nevada Test Site: Lawrence Livermore National Laboratory Report UCRL-ID-108869.

Garcia, M.N., and Sharps, J.A., 1985, Morphology of the Carpetbag fault system, Yucca Flat, Nevada, *in* Olsen, C.W., and Donohue, M.L., eds., Proceedings of the third symposium on containment of underground nuclear explosions: NTIS Report CONF-850953, v. 2, p. 64-71.

Garcia, M.N., and Sharps, J.A., 1986, Results of recent mapping along the Carpetbag fault system, Yucca Flat, Nevada: U.S. Geological Survey Open-File Report 86-449.

Gardiner, D.S., Jones, A.H., and Butters, S.W., 1978, Material properties of Nevada Test Site tuff relating to the DIABLO HAWK structures experiments and containment evaluation: Terra Tek Report TR-78-78.

Gardner, G.G. and Brikowski, T.H., 1993, The origin of elevated water levels in emplacement boreholes, Pahute Mesa, Nevada Test Site: a numerical study: Desert Research Institute Report 45124 [DOE/NV/10845-44]

Gardner, T.W., Connors, K.F., Hu, H., and Petersen, G.W., 1988, Delineation of ephemeral fluvial networks on low-relief piedmont surfaces, Plutonium Valley, Nevada, USA: Techniques Spatiales, v. 1, p. 215-220.

Gates, J.S., 1988
see Harrill, J.R., et al., 1988

Gauthier, J.H., 1987
see Peters, R.R., et al., 1987

Gaynor, R.K., 1984, Geohydrology of industrial waste disposal site: Journal of Energy Engineering, v. 110, no. 1, p. 10-21.

Geil, R.G., 1993
see Goldstein, Peter, et al., 1993

Geissman, J.W., 1994
see Ratcliff, C.D., et al., 1994

Geldon, A.L., 1991
see Czarnecki, J.B., and Geldon, A.L., 1991

George, J.T., 1987
see Peters, R.R., et al., 1987

Gerety, M.T., 1989
see Cogbill, A.H., et al., 1989

Gerlach, D.C., 1990
see Buchholtz-ten Brink, Marilyn, et al., 1990

Germain, L.S., 1971
see Crowley, B.K., and Germain, L.S., 1971

Giacomini, J.J., 1980
see Barnes, M.G., et al., 1980

Giardini, A.A., Lakner, J.F., Stephens, D.R., and Stranberg, H.D., 1968, Triaxial compression data on nuclear explosion shocked, mechanically shocked, and normal granodiorite from the Nevada Test Site: Journal of Geophysical Research, v. 73, no. 4, p. 1305-1320.

Gibbons, A.B., 1960, Geologic effects of the Rainier underground test--preliminary report: U.S. Geological Survey Open-File Report [TEI-718]

Gibbons, A.B., 1962

see Hinrichs, E.N., and Gibbons, A.B., 1962

Gibbons, A.B., 1963

see Hansen, W.R., et al., 1963

Gibbons, A.B., Hinrichs, E.N., Dickey, D.D., McKeown, F.A., Poole, F.G., and Houser, F.N., 1961, Engineering geology of test sites in granite and dolomite at Gold Meadows, Climax, and Dolomite Hill, Nevada Test Site, Nye County, Nevada--preliminary report: U.S. Geological Survey Open-File Report [TEM-884]

Gibbons, A.B., Hinrichs, E.N., Hansen, W.R., and Lemke, R.W., 1963, Geology of the Rainier Mesa quadrangle, Nye County, Nevada: U.S. Geological Survey Geologic Quadrangle Map GQ-215, scale 1:24,000 [TEI-754]

Gibbs, J.F., and Roller, J.C., 1966, Crustal structure determined by seismic-refraction measurements between the Nevada Test Site and Ludlow, California, *in* Geological Survey Research 1966: U.S. Geological Survey Professional Paper 550-D, p. D125-D131.

Gibson, J.D., 1993a, Natural responses to Quaternary climatic change in the Nevada Test Site region: Sandia National Laboratories Report SAND-93-1660C.

Gibson, J.D., 1993b, The role of Quaternary climatic change in natural processes within the Nevada Test Site region, *in* CANQUA 93; applied Quaternary research: Program with abstracts and field guide: Canadian Quaternary Association, p. A16.

Gifford, S.K., 1987

see Norris, A.E., et al., 1987

Gilbert, R.O., 1975

see Essington, E.H., et al., 1975

Gilbert, R.O., 1977

see Essington, E.H., et al., 1977

Giles, K.R., 1976, Springs on the Nevada Test Site and their use by wildlife: U.S. Environmental Protection Agency, Environmental Monitoring and Support Laboratory (Las Vegas, Nev.) Report NERC-LV-539-26.

Gillespie, D.R., 1993a

see Hershey, R.L., and Gillespie, D.R., 1993

Gillespie, D.R., 1993b

see Russell, C.E., et al., 1993

Gillespie, D.R., Hokett, S.L., and Russell, C.E., 1995, Determination of soil moisture flux in nuclear subsidence craters using the annual temperature pulse: Abstracts with Programs--Geological Society of America, v. 27, no. 6, p. 425.

Gillespie, Lora, 1993

see Russell, C.E., et al., 1993

Gillson, R.G., 1993, Analysis of borehole elongation in Yucca Flat and Pahute Mesa, Nevada Test Site, Nevada, using the digital downhole surveyor: University of Arkansas unpublished master's thesis.

Gillson, R.G., McKague, H.L., and VanArsdale, R.B., 1992, Analysis of borehole elongation at the Nevada Test Site, Nevada, using the digital downhole surveyor: EOS, Transactions, American Geophysical Union, v. 73, no. 43, Suppl. p. 560.

Gilmore, J.S., 1989

see Thompson, J.L., and Gilmore, J.S., 1989

Gilmore, J.S., 1991

see Thompson, J.L., and Gilmore, J.S., 1991

Ginanni, J.M., O'Neill, L.U., Hammermeister, D.P., Blout, D.O., Dozier, B.L., Sully, M.J., Johnjack, K.R., Emer, D.F., and Tyler, S.W., 1993, Hydrogeologic characterization of an arid zone radioactive waste management site, 15th Annual USDOE Low-Level Radioactive Waste Management Conference, Phoenix, AZ, December 1-3, 1993: U.S. Dept. of Energy Report DOE/NV-94013853.

Girucky, F.E., 1968

see Nugent, R.C., and Girucky, F.E., 1968

Given, H.K., 1989

see Gurrola, Harold, et al., 1989

Gladney, E., 1980

see Vaniman, D.T., et al., 1980

Glanzman, V.M., 1979, Bibliography of reports by U.S. Geological Survey personnel on the Nevada Test Site and related subjects, July 1, 1977 to December 31, 1978, with author and subject indexes: U.S. Geological Survey Report 474-306.

Glanzman, V.M., 1980a, Bibliography of reports by U.S. Geological Survey personnel pertaining to underground nuclear testing and radioactive waste disposal at the Nevada Test Site, and radioactive waste disposal at the WIPP site, New Mexico, January 1, 1979 to December 31, 1979: U.S. Geological Survey Open-File Report 80-817.

Glanzman, V.M., 1980b

see Spengler, R.W., and Glanzman, V.M., 1980

Glanzman, V.M., 1981, Bibliography of reports by U.S. Geological Survey personnel pertaining to underground nuclear testing and radioactive waste disposal at the Nevada Test Site, and radioactive waste disposal at the Waste Isolation Pilot Plant Site, New Mexico, January 1, 1980 to December 31, 1980: U.S. Geological Survey Open-File Report 81-892.

Glanzman, V.M., 1982a

see Dixon, G.L., and Glanzman, V.M., 1982

Glanzman, V.M., 1982b

see Wilson, W.E., et al., 1982

Glanzman, V.M., 1983, Bibliography of reports by U.S. Geological Survey personnel on studies of underground nuclear test sites and on waste management studies at the Nevada Test Site and the Waste Isolation Pilot Plant site, New Mexico, January 1 to December 31, 1981: U.S. Geological Survey Open-File Report 83-478.

Glanzman, V.M., 1984a, Bibliography of reports by U.S. Geological Survey personnel on studies of underground nuclear test sites and on waste management studies at the Nevada Test Site and the Waste Isolation Pilot Plant site, New Mexico, January 1 to December 31, 1982: U.S. Geological Survey Open-File Report 84-23.

Glanzman, V.M., 1984b

see Dixon, G.L., and Glanzman, V.M., 1984

Glanzman, V.M., 1985, Bibliography of reports by U.S. Geological Survey personnel on studies of underground nuclear test sites and the Waste Isolation Pilot Plant Site, New Mexico, January 1, 1983 to December 31, 1984: U.S. Geological Survey Open-File Report 85-363.

Glanzman, V.M., 1986a, Bibliography of reports by U.S. Geological Survey personnel on studies at the Nevada Test Site and the Waste Isolation Pilot Plant Site, New Mexico, January 1, 1985 to December 31, 1985: U.S. Geological Survey Open-File Report 86-558.

Glanzman, V.M., 1986b, Nevada Test Site and vicinity, in Dinwiddie, G.A., and Trask, N.J., comps., U.S. Geological Survey research in radioactive waste disposal; fiscal years 1983, 1984, and 1985: U.S. Geological Survey Water-Resources Investigations Report 87-4009, p. 15-26.

Glanzman, V.M., 1992, Bibliography of publications prepared by U.S. Geological Survey personnel under cooperative programs with the U.S. Department of Energy and predecessor agencies, 1957-1991, with emphasis on nuclear testing programs: U.S. Geological Survey Open-File Report 92-502.

Glaser, R.E., 1989

see Taylor, S.R., et al., 1989

Glaser, R.E., Taylor, S.R., Denny, M.D., and Vergino, E.S., 1986, Regional discrimination of NTS (Nevada Test Site) explosions and western U.S. earthquakes: Multivariate discriminants: Lawrence Livermore National Laboratory Report UCID-20930.

Glenn, H.D., 1977

see Terhune, R.W., and Glenn, H.D., 1977

Glines, W.M., 1995

see Black, S.C., et al., 1995

Glover, Peter, and Alexander, S.S., 1970, A comparison of the Lake Superior and Nevada Test Site source regions: Teledyne Industries Report SDL-243.

Goforth, Tom, 1979

see Herrin, Eugene, et al., 1979

Goldberg, M.C., 1962

see Beetem, W.A., et al., 1962

Goldberg, M.C., Janzer, V.J., Angelo, C.G., and Beetem, W.A., 1962, The effect of sodium ion concentration on distribution coefficients for tuffs from NTS: U.S. Geological Survey Technical Letter NTS-16.

Golden, B.G., 1995, Workbook documenting the area locations and categories of nuclear tests conducted at the Nevada Test Site: U.S. Dept. of Energy Report.

Goldstein, Peter, 1994

- see Jarpe, S., et al., 1994
- Goldstein, Peter, Geil, R.G., Larson, D.B., Patton, H.J., Roth, B.G., Smith, A.T., Sweeney, J.J., Zucca, J.J., and Carrigan, C.R., 1993, Seismic measurements of a chemical kiloton experiment at Rainier Mesa, NTS: *Seismological Research Letters*, v. 64, no. 1, p. 54.
- Gomberg, J.S., 1991a, Seismicity and detection/location threshold in the southern Great Basin seismic network: *Journal of Geophysical Research, B, Solid Earth and Planets*, v. 96, no. 10, p. 16,401-16,414.
- Gomberg, J.S., 1991b, Seismicity and shear strain in the southern Great Basin of Nevada and California: *Journal of Geophysical Research, B, Solid Earth and Planets*, v. 96, no. 10, p. 16,383-16,399.
- Gomberg, J.S., 1992
see Cranswick, Edward, et al., 1992
- Gomberg, J.S., 1993
see Meremonte, M.E., et al., 1993
- Gonzales, J.L., 1982a
see Davies, W.J., et al., 1982
- Gonzales, J.L., 1982b
see Drellack, S.L., et al., 1982
- Gonzales, J.L., 1983
see Drellack, S.L., et al., 1983
- Gonzales, J.L., 1984
see Drellack, S.L., et al., 1984
- Gonzales, J.L., Drellack, S.L., and Davies, W.J., 1982, Lithologic and geophysical logs of selected drill holes in eastern Area 7, Nevada Test Site, v. 2: U.S. Dept. of Energy Report DOE/NV/10322-2.
- Gonzales, J.L., Drellack, S.L., and Davies, W.J., 1985, Lithology and stratigraphy of drill holes completed during 1984 in LANL use areas of Yucca Flat, Nevada Test Site, v. 6: U.S. Dept. of Energy Report DOE/NV/10322-6.
- Gonzalez, D.A., 1986, Radiological effluent and onsite area monitoring report for the Nevada Test Site (January 1985 through December 1985): Reynolds Electrical and Engineering Co. Report.
- Gonzalez, D.D., Warren, C.T., and Washington, C.L., 1973, Water levels and spring discharges for selected wells and springs in Nevada, 1966-69: U.S. Geological Survey Report USGS-474-171 [NTS-248]
- Goodman, D.M., 1990
see Denny, M.D., et al., 1990
- Gordon, A.C., 1981
see Hoover, D.L., et al., 1981
- Gordon, Mackenzie, Jr., and Poole, F.G., 1968, Mississippian-Pennsylvanian boundary in southwestern Nevada and southeastern California, *in* Eckel, E.B., Nevada Test Site: Geological Society of America Memoir 110, p. 157-168.
- Gorelick, S.M., 1985

- see Rice, W.A., and Gorelick, S.M., 1985
- Gottschall, W.C., 1981
see Szabo, B.J., et al., 1981
- Gouveia, F.J., 1993
see Shinn, J.H., et al., 1993
- Grant, T.A., 1989
see McKague, H.L., et al., 1989
- Gray, R.C., 1966a, Crustal structure from the Nevada Test Site to Kansas as determined by a gravity profile: University of Utah unpublished master's thesis.
- Gray, R.C., 1966b
see Cook, K.L., et al., 1966
- Green, S.J., 1973a
see Butters, S.W., et al., 1973
- Green, S.J., 1973b
see Swolfs, H.S., et al., 1973
- Green, S.J., 1974a
see Haimson, B.C., et al., 1974
- Green, S.J., 1974b
see Shipman, F.H., et al., 1974
- Green, S.J., Butters, S.W., and Griffin, R.M., 1973, High pressure properties of U12n.05 and U12t.02 tuffs, Nevada Test Site: Terra Tek Report TR-72-19.
- Green, S.J., Griffin, R.M., Black, A.D., Butters, S.W., and Duncan, S.W., 1971, High pressure properties of several Nevada Test Site tuffs: Terra Tek Report TR-71-30.
- Greger, P.D., 1991
see Schulz, R.K., et al., 1991
- Griffin, R.M., 1971
see Green, S.J., et al., 1971
- Griffin, R.M., 1973
see Green, S.J., et al., 1973
- Gronseth, J.M., 1980
see Butters, S.W., et al., 1980
- Grose, T.L. and Smith, G.I., 1989, Geology, in Bedinger, M.S., Sargent, K.A., and Langer, W.H., eds, Studies of geology and hydrogeology in the Basin and Range Province, southwestern United States, for isolation of high-level radioactive waste: U.S. Geological Survey Professional Paper 1370-F, p. 5-19.
- Grossenbacher, K., 1988

- see Hestir, K., et al., 1988
- Grossman, R.F., 1978, Off-site environmental monitoring report for the Nevada Test Site and other test areas used for underground nuclear detonations, January through December 1977: U.S. Environmental Protection Agency, Environmental Monitoring Systems Laboratory (Las Vegas, Nev.) Report EMSL-LV-0539-18.
- Grothaus, B.T., 1979
see McKague, H.L., et al., 1979
- Grothaus, B.T., and Hage, G.L., 1978, Fourier grain shape analysis: a means for correlating alluvial deposits at the Nevada Test Site: Lawrence Livermore Laboratory Report UCRL-52569.
- Grothaus, B.T., and Howard, N.W., 1977, Correlation of alluvial deposits at the Nevada Test Site: Lawrence Livermore Laboratory Report UCRL-52335.
- Grove, D.B., 1970, A Method to describe the flow of radioactive ions in ground water: final report December 1, 1966 through June 30, 1968: Sandia National Laboratories Report SC-CR-70-6139.
- Grove, D.B., 1971, U.S. Geological Survey tracer study, Amargosa Desert, Nye County, Nevada. Part II: an analysis of the flow field of a discharge-recharging pair of wells: U.S. Geological Survey Report 474-99.
- Grove, D.B., and Beetem, W.A., 1971, Porosity and dispersion constant calculations for a fractured carbonate aquifer using the two-well tracer method: Water Resources Research, v. 7, p. 128-134.
- Grove, D.B., Rubin, Meyer, Hanshaw, B.B., and Beetem, W.A., 1969, Carbon-14 dates of ground water from a Paleozoic carbonate aquifer, south-central Nevada, in Geological Survey Research 1969: U.S. Geological Survey Professional Paper 650-C, p. C215-C218.
- Grow, J.A., 1995
see Harris, A.G., et al., 1995
- Gupta, I.N., and Blandford, R.R., 1987, A study of P waves from Nevada Test Site explosions: Near-source information from teleseismic observations?: Bulletin of the Seismological Society of America, v. 77, no. 3, p. 1041-1056.
- Gupta, I.N., Chan, W.W., and Wagner, R.A., 1992, A comparison of regional phases from underground nuclear explosions at East Kazakh and Nevada Test Sites: Bulletin of the Seismological Society of America, v. 82, no. 1, p. 352-382.
- Gurrola, Harold, Minster, J.B., Given, H.K., Vernon, F.L., and Berger, J., 1989, Analysis of seismic data collected near the eastern Kazakh and Nevada Test Site: U.S. Air Force Geophysics Laboratory Report GL-TR-89-0230.
- Gustafson, D.L. 1993a
see Miller, J.J., et al., 1993
- Gustafson, D.L., 1993b
see Schmeltzer, J.S., et al., 1993
- Gustafson, D.L., 1993c
see Snyder, K.E., et al., 1993
- Gustafson, D.L., 1994a

- see Snyder, K.E., and Gustafson, D.L., 1994
- Gustafson, D.L., 1994b
see Snyder, K.E., et al., 1994
- Gustafson, D.L., 1995
see Snyder, K.E., et al., 1995
- Gutentag, E.D., 1990
see Peterman, Z.E., et al., 1990
- Gutentag, E.D., 1992
see Peterman, Z.E., et al., 1992
- Guth, P.L., 1981, Tertiary extension north of the Las Vegas Valley shear zone, Sheep and Desert ranges, Clark County, Nevada: Geological Society of America Bulletin, v. 92, p. 763-771.
- Guth, P.L., in press, Bedrock geologic map of the Indian Springs 1:100,000 quadrangle, Nevada: U.S. Geological Survey Open-File Report 89-XXXX, scale 1:100,000.
- Guth, P.L., 1990, Superposed mesozoic and cenozoic deformation, Indian Springs quadrangle, southern Nevada, *in* Wernicke, B.P., ed., Basin and Range extensional tectonics near the latitude of Las Vegas, Nevada: Geological Society of America Memoir 176, p. 237-249.
- Haas, Herbert, 1990
see Thorstenson, D.G, et al., 1990
- Hadley, D.M., 1981
see Helmberger, D.V., and Hadley, D.M., 1981
- Hadley, D.M., and Hart, R. S., 1979, Seismic studies of the Nevada Test Site: Sierra Geophysics Report SGI-R-79-003.
- Hadley, D.M., and Helmberger, D.V., 1979, Seismic source functions and attenuation from local and teleseismic observations of the NTS events Jorum and Handley: EOS, Transactions, American Geophysical Union, v. 60, no. 46, p. 881.
- Hadley, G.R., 1984, Water transport through welded tuff: Sandia National Laboratories Report SAND-82-1043.
- Hage, G.L., 1978
see Grothaus, B.T., and Hage, G.L., 1978
- Hagstrum, J.T., Daniels, J.J., and Scott, J.H., 1980, Interpretation of geophysical well-log measurements in drill hole UE25a-1, Nevada Test Site, radioactive waste program: U.S. Geological Survey Open-File Report 80-941.
- Hague, R.S., 1987, Aleman radionuclide migration panel final report; January 22, 1987: U.S. Dept. of Energy report.
- Hahn, K., 1991
see Mathews, M.A., et al., 1991
- Hahn, K., 1994
see Mathews, M.A., et al., 1994

Haimson, B.C., 1982, A comparative study of deep hydrofracturing and overcoring stress measurements at six locations with particular interest to the Nevada Test Site, *in* Zoback, M.D., and Haimson, B.C., eds., 1982, Proceedings Workshop XVII; Workshop on hydraulic fracturing stress measurements: U.S. Geological Survey Open-File Report 82-1075, p. 276-304.

Haimson, B.C., LaComb, J.W., Jones, A.H., and Green, S.J., 1974a, Crustal stresses at the Nevada Test Site [abs.]: EOS, Transactions, American Geophysical Union, v. 55, no. 4, p. 425.

Haimson, B.C., LaComb, J.W., Jones, A.H., and Green, S.J., 1974b, Deep stress measurements in tuff at the Nevada Test Site, *in* Advances in rock mechanics, v. 2, part A.: International Society of Rock Mechanics, p. 557-562.

Hakonson, T.E., 1983
see Bostick, K.V., et al., 1983

Haldeman, D.L., 1994
see Russell, C.E., et al., 1994

Haldeman, D.L., Pitonzo, B.J., Story, S.P., and Amy, P.S., 1994, Comparison of the microbiota recovered from surface and deep subsurface rock, water, and soil along an elevational gradient: Geomicrobiology Journal, v. 12, no. 2, p. 99-111.

Hale, G.S., and Trudeau, D.A., 1993, Groundwater levels from well and test-hole data, Yucca Flat, Nevada Test Site, Nye County, Nevada, 1959-1991, *in* Proceedings of the 7th symposium on containment of underground nuclear explosions, September 13-17, 1993: NTIS Report CONF-9309103, v. 2, p. 433.

Hale, G.S., Trudeau, D.A., and Savard, C.S., 1995, Water-level data from wells and test holes, and potentiometric contours at Yucca Flat, Nevada Test Site, Nye County, Nevada: U.S. Geological Survey Water-Resources Investigations Report 95-4177.

Hale, W.E., Winograd, I.J., and Garber, M.S., 1963, Preliminary appraisal of close-in aquifer response to the Bilby Event, Yucca Flat, Nevada: U.S. Geological Survey Technical Letter NTS-63.

Hales, A.L., and Maki-Lopez, M.L., 1980, P travel-times from Nevada Test Site explosions and the determination of average global P travel-times: Physics of the Earth and Planetary Interiors, v. 23, no. 3, p. 188-198.

Hall, J.C., 1969
see Hamilton, R.M., et al., 1969

Hall, J.C., 1970
see Hamilton, R.M., et al., 1970

Hamilton, R.M., 1969
see Healy, J.H., and Hamilton, R.M., 1969

Hamilton, R.M., 1972
see Fischer, F.G., et al., 1972

Hamilton, R.M., McKeown, F.A., and Healy, J.H., 1969a, Seismic activity and faulting associated with a large underground nuclear explosion, Science, v. 166, no. 3905, p. 601-604.

Hamilton, R.M., Orkild, P.P., Dickey, D.D., and Hall, J.C., 1970, Earthquake, surface fracturing and strain associated with Cruet, Pod, and Calabash underground nuclear explosions at Yucca Flat, Nevada Test Site, October

29, 1969: U.S. Geological Survey Report USGS-474-94 [NTS-229]

Hamilton, R.M., Smith, B.E., Fischer, F.G., and Papanek, P.J., 1971, Seismicity of the Pahute Mesa area, Nevada Test Site, 8 December 1968 through 31 December 1970: U.S. Geological Survey Report USGS-474-138 [Special Studies-89]

Hamilton, R.M., Smith, B.E., Fischer, F.G., and Papanek, P.J., 1972, Earthquakes caused by underground nuclear explosions on Pahute Mesa, Nevada Test Site: Seismological Society of America Bulletin, v.62, no.5, p. 1319-1341.

Hamilton, R.M., Smith, B.E., Hall, J.C., and Healy, J.H., 1969b, Summary of seismic activity in the Pahute Mesa area, Nevada Test Site, December 8, 1968 through June 30, 1969: U.S. Geological Survey Report USGS-474-58 [NTS-222]

Hamilton, W.B., 1988, Detachment faulting in the Death Valley region, California and Nevada, *in* Carr, M.D., and Yount, J.C., eds, Geologic and hydrologic investigations of a potential nuclear waste disposal site at Yucca Mountain, southern Nevada: U.S. Geological Survey Bulletin 1790, p. 51-85.

Hammermeister, D.P., 1988
see Montazer, Parviz, et al., 1988

Hammermeister, D.P., 1990
see Kume, Jack, and Hammermeister, D.P., 1990

Hammermeister, D.P., 1991
see Kume, Jack, and Hammermeister, D.P., 1991

Hammermeister, D.P., 1992
see Loskot, C.L., and Hammermeister, D.P., 1992

Hammermeister, D.P., 1993a
see Detty, T.E., et al., 1993

Hammermeister, D.P., 1993b
see Ginanni, J.M., et al., 1993

Hammermeister, D.P., 1994a
see Istok, J.D., et al., 1994

Hammermeister, D.P., 1994b
see Sully, M.J., et al., 1994

Hanes, W.T., 1976, Water-resources data collected in the Devils Hole area, Nevada, 1975-76: U.S. Geological Survey Open-File Report 76-797.

Hanna, W.F., 1982a
see Hoover, D.B., et al., 1982

Hanna, W.F., 1982b
see Ponce, D.A., and Hanna, W.F., 1982

Hannon, W.J., and McKague, H.L., 1975, Examination of the geology and seismology associated with Area 410 at the Nevada Test Site: Lawrence Livermore Laboratory Report UCRL-51830.

- Hansen, D.S., 1978, Tritium movement in the unsaturated zone, Nevada Test Site: University of Nevada, Reno unpublished master's thesis.
- Hansen, D.S., Jacobson, R.L., and Hess, J.W., 1978, Tritium movement in the unsaturated zone, Nevada Test Site: Abstracts with Programs--Geological Society of America, v. 10, no. 7, p. 415.
- Hansen, W.R., 1962
see Catterole, J.M., and Hansen, W.R., 1962
- Hansen, W.R., 1963
see Gibbons, A.B., et al., 1963
- Hansen, W.R., and Lemke, R.W., 1959, Geology of USGS and Rainier tunnel areas, Nevada Test Site: U.S. Geological Survey Open-File Report [TEI-716]
- Hansen, W.R., Lemke, R.W., Cattermole, J.M., and Gibbons, A.B., 1963, Stratigraphy and structure of the Rainier and USGS tunnel areas, Nevada Test Site: U.S. Geological Survey Professional Paper 382-A, A1-A49.
- Hanshaw, B.B., 1969
see Grove, D.B., et al., 1969
- Hanson, J.M., 1984, Barometric pressure transient testing applications at the NTS: formation permeability analysis: Lawrence Livermore National Laboratory Report UCRL-15699.
- Hanson, J.M., 1985, Barometric pressure transient testing applications at the NTS: nuclear chimney analysis: Lawrence Livermore National Laboratory Report UCRL-155770.
- Hanson, J.M., and Hearst, J.R., 1985, Evaluation of permability in the unsaturated zone at the Nevada Test Site using barometric pressure modeling, *in* Olsen, C.W., and Donohue, M.L., eds., Proceedings of the third symposium on containment of underground nuclear explosions, September 9-13, 1985, v. 1: NTIS Report CONF-850953, p. 392-399.
- Hanson, S.L., 1986
see Perkins, D.M., et al., 1986
- Hardin, E.L., 1989
see McKague, H.L., et al., 1989
- Hardin, E.L., Voegelé, M.D., Board, M.P., and Pratt, H.R., 1985, Development of a test series to determine in situ thermomechanical and transport properties, *in* Pincus, H.J., and Hoskins, E.R., eds., Measurement of rock properties at elevated pressures and temperatures: ASTM Special Technical Publication 869, p. 128-149.
- Harkrider, D.G., 1978
see Bache, T.C., et al., 1978
- Harkrider, D.G., 1995
see Woods, B.B., and Harkrider, D.G., 1995
- Harmsen, S.C., 1981
see Rogers, A.M., et al., 1981
- Harmsen, S.C., 1982

see Rogers, A.M., et al., 1982

Harmsen, S.C., 1987

see Rogers, A.M., et al., 1987

Harmsen, S.C., 1988

see Hildenbrand, T.G., et al., 1988

Harmsen, S.C., 1991a, Regional-scale velocity anisotropy inferred from Nevada Test Site nuclear test P-arrivals, *in* Gomberg, J.S., ed., U.S. Geological Survey Committee for the Advancement of Science in the Yucca Mountain Project, symposium on fractures, hydrology, and Yucca Mountain: Abstracts and summary: U.S. Geological Survey Open-File Report 91-125, p.14.

Harmsen, S.C., 1991b, Seismicity and focal mechanisms for the southern Great Basin of Nevada and California in 1990: U.S. Geological Society Open-File Report 91-367.

Harmsen, S.C., 1992a, Regional-scale velocity anisotropy inferred from Nevada Test Site nuclear test P-arrivals: Seismological Research Letters, v. 63, no. 1, p. 39.

Harmsen, S.C., 1992b

see Cranswick, Edward, et al., 1992

Harmsen, S.C., 1994, The Little Skull Mountain, Nevada, earthquake of 29 June 1992; aftershock focal mechanisms and tectonic stress field implications: Bulletin of the Seismological Society of America, v. 84, no. 5, p. 1484-1505.

Harmsen, S.C., and Rogers, A.M., 1986, Inferences about the local stress field from focal mechanisms: Applications to earthquakes in the southern Great Basin of Nevada: Bulletin of the Seismological Society of America, v. 76, no. 6, p. 1560-1572.

Harper, M.D., 1981

see Edwards, C.L., et al., 1981

Harper, M.D., 1983

see Edwards, C.L., et al., 1983

Harrar, J.E., 1982

see Isherwood, D.J., et al., 1982

Harrar, J.E., Carley, J.F., Isherwood, W.F., and Raber, Ellen, 1990, Report of the committee to review the use of J-13 well water in Nevada Nuclear Waste Storage Investigations: Lawrence Livermore National Laboratory Report UCID-21867.

Harrill, J.R., 1986, Great Basin regional aquifer-system study, *in* Sun, R.J., ed., Regional aquifer-system study analysis program of the U.S. Geological Survey: Summary of progress, 1978-84: U.S. Geological Survey Circular 1002, p. 146-151.

Harrill, J.R., 1995a

see Dettinger, M.D., et al., 1995

Harrill, J.R., 1995b

see Prudic, D.E., et al., 1995

Harrill, J.R., Gates, J.S., and Thomas, J.M., 1988, Major groundwater flow systems in the Great Basin region of Nevada, Utah, and adjacent States: U.S. Geological Survey Hydrologic Investigations Atlas HA-694-C.

Harrington, C.D., 1993

see Whitney, J.W., and Harrington, C.D., 1993

Harris, A.G., 1993

see Cole, J.C., et al., 1993

Harris, A.G., Repetski, J.E., and Grow, J.A., 1995, Exploring for hydrocarbons in geothermally and hydrothermally complex areas; a southern Nevada example: American Association of Petroleum Geologists Bulletin, v. 79, no. 6, p. 918-919.

Harris, D.B., 1990

see Denny, M.D., et al., 1990

Harris, L.J., 1994

see Kenneally, J.M., et al., 1994

Harris, R.N., 1987

see Healey, D.L., et al., 1987

Harris, R.N., 1988a

see Hildenbrand, T.G., et al., 1988

Harris, R.N., 1988b

see Ponce, D.A., et al., 1988

Harris, R.N., 1988c

see Zumberge, M.A., et al., 1988

Harris, R.N., Oliver, H.W., and Healey, D.L., 1986, Structural implications of an isostatic residual gravity map of the Nevada Test Site, Nevada: EOS, Transactions, American Geophysical Union, v. 67, no. 44, p. 1262.

Harris, R.N., Ponce, D.A., Oliver, H.W., and Healey, D.L., 1989a, Principal facts for about 16,000 gravity stations in the Nevada Test Site and vicinity: U.S. Geological Survey Open-File Report 89-682-A.

Harris, R.N., Ponce, D.A., Oliver, H.W., and Healey, D.L., 1989b, Principal facts for about 16,000 gravity stations in the Nevada Test Site and vicinity. Gravity data listing on paper, Appendices B-G: U.S. Geological Survey Open-File Report 89-682-B.

Hart, H.R., 1974

see Fleischer, R.L., et al., 1974

Hart, R.S., 1979

see Hadley, D.M., and Hart, R.S., 1979

Hart, R.S., 1982

see Mellman, G.R., and Hart, R.S., 1982

Hartzell, S.H., 1991

see Barker, J.S., et al., 1991

Hasler, J.W., 1963, Interim geological investigations in the U12e.07 tunnel, Nevada Test Site, Nye County, Nevada: U.S. Geological Survey Open-File Report [TEI-834]

Hassemer, J.H. 1974

see Dickey, D.D., and Hassemer, J.H., 1974

Hauge, T.A., 1987

see Allmendinger, R.W., et al., 1987

Hausback, B.P., 1990

see Maldonado, Florian, and Hausback, B.P., 1990

Hauser, E.C., 1987

see Allmendinger, R.W., et al., 1987

Hawkins, W.L., 1981

see Byers, F.M., Jr., and Hawkins, W.L., 1981

Hawkins, W.L., 1984

see Ander, H.D., et al., 1984

Hawkins, W.L., 1989

see Cogbill, A.H., et al., 1989

Hawkins, W.L., Cavazos, A.P., and Thompson, P.H., 1987, Geologic and hydrologic investigations at the Aleman (U3KZ) Site and other sites in Yucca Flat, the Nevada Test Site, in Olsen, C.W., Donohue, M.L., and Wander, Sandra, eds., Proceedings of the fourth symposium on containment of underground nuclear explosions, v. 2: U.S. Dept. of Energy Report CONF-870961, p. 387-398.

Hawkins, W.L., Trudeau, D.A., and Drellack, S.L., Jr., 1993, Hydrogeologic investigations at the Nevada Test Site, in Eckstein, Y., and Azporozec, A., eds., Hydrogeologic investigation, evaluation, and ground water modeling: Water Environment Federation, Alexandria, Va., p. 87-104.

Hawkins, W.L., Trudeau, D.A., and Mihevc, T.D., 1990, Hydrologic testing in exploratory drill hole UE4t, Yucca Flat, the Nevada Test Site, in Olsen, C.W., and Carter, J.A., eds., Proceedings of the fifth symposium on containment of underground nuclear explosions, v. 2: NTIS Report CONF-89-09163, p. 141-159.

Hawkins, W.L., Wagoner, J.L., and Drellack, S.L., 1992a, Hazardous and toxic waste in ground and surface water, in Jones, M.E., and Laenen, A., eds., Interdisciplinary approaches in hydrology and hydrogeology: American Institute Hydrology, p. 131-145.

Hawkins, W.L., Wagoner, J.L., and Drellack, S.L., 1992b, Interdisciplinary hydrogeologic site characterization at the Nevada Test Site: Los Alamos National Laboratory Report LA-UR-92-1145.

Hawley, C.C., 1959

see Diment, W.H., et al., 1959

Hazelwood, R.M., 1961, Interim report on seismic velocities of the Oak Spring Formation, U12e and U12b tunnel systems, Nevada Test Site, Nye County, Nevada: U.S. Geological Survey Open-File Report [TEI-795]

Hazelwood, R.M., 1962

see Byers, F.M., Jr., and Hazelwood, R.M., 1962

Hazelwood, R.M., 1970, Seismic refraction survey at the UNa site, Nevada Test Site, Nye County, Nevada: U.S. Geological Survey Report USGS-474-76 [NTS-226]

Hazelwood, R.M., 1975
see Carr, W.J., et al., 1975

Hazelwood, R.M., 1979
see Byers, F.M., Jr., and Hazelwood, R.M., 1979

Hazleton-Nuclear Science Corp., 1964, Preliminary ground-water safety evaluation, Area 5, Nevada Test Site: Hazleton-Nuclear Science Corp. Report HNS-1229-118.

Hazleton-Nuclear Science Corp., 1965, Post-shot hydrologic safety: Project Shoal final report: Hazleton-Nuclear Science Corp. Report VUF-1014.

Healey, D.L., 1959a
see Diment, W.H., et al., 1959

Healey, D.L., 1959b
see Wilmarth, V.R., et al., 1959

Healey, D.L., 1960a
see Diment, W.H., et al., 1960

Healey, D.L., 1960b
see Wilmarth, V.R., et al., 1960

Healey, D.L., 1965
see Miller, C.H., and Healey, D.L., 1965

Healey, D.L., 1966, Gravity and seismic study of Yucca Flat, Nevada Test Site, Nye County, Nevada, *in* Mining Geophysics, v.1, Case histories of Society of Exploration Geophysicists: Tulsa, Oklahoma, Society of Exploration Geophysicists, p. 84-93.

Healey, D.L., 1968, Application of gravity data to geologic problems at Nevada Test Site, *in* Eckel, E.B., ed., Nevada Test Site: Geological Society of America Memoir 110, p. 147-156.

Healey, D.L., 1970a, Calculated in situ bulk densities from subsurface gravity observations and density logs, Nevada Test Site and Hot Creek Valley, Nye County, *in* Geological Survey Research 1970: U.S. Geological Survey Professional Paper 700-B, p. B52-B62

Healey, D.L., 1970b, Gravity survey of Area 8, Nevada Test Site, Nye County, U.S. Geological Survey Report USGS-474-89 [NTS-218]

Healey, D.L., 1970c, Gravity survey of the Ue15j Site, Area 15, Nye County, U.S. Geological Survey Report USGS-474-66 [NTS-223]

Healey, D.L., 1974
see Miller, C.H., et al., 1974

Healey, D.L., 1975
see Carr, W.J., et al., 1975

- Healey, D.L., 1976
see McKeown, F.A., et al., 1976
- Healey, D.L., 1981a
see Brethauer, G.E., et al., 1981
- Healey, D.L., 1981b
see Twenhofel, W.S., et al., 1981
- Healey, D.L., 1982
see Kane, M.F., et al., 1982
- Healey, D.L., 1983a, Gravity investigations, *in* Geologic and geophysical investigations of Climax Stock intrusive, Nevada: U.S. Geological Survey Open-File Report 83-377, p. 25-38.
- Healey, D.L., 1983b
see Twenhofel, W.S., et al., 1983
- Healey, D.L., 1985
see Powers, P.S., and Healey, D.L., 1985
- Healey, D.L., 1986a
see Harris, R.N., et al., 1986
- Healey, D.L., 1986b
see Miller, C.H., and Healey, D.L., 1986
- Healey, D.L., 1989
see Harris, R.N., et al., 1989
- Healey, D.L., Harris, R.N., Ponce, D.A., and Oliver, H.W., 1987, Complete Bouguer gravity map of the Nevada Test Site and vicinity, Nevada: U.S. Geological Survey Open-File Report 87-506.
- Healey, D.L., Hoover, D.L., Hodson, J.N., and Maldonado, Florian, 1978, Nevada Test Site, *in* Geological Survey Research 1978: U.S. Geological Survey Professional Paper no. 1100, p. 277-278.
- Healey, D.L., and Miller, C.H., 1962, Gravity survey of the Nevada Test Site and vicinity, Nye, Lincoln and Clark counties, Nevada: Interim report: U.S. Geological Survey Open-File Report [TEI-827]
- Healey, D.L., and Miller, C.H., 1963, Gravity survey of the Gold Meadows stock, Nevada Test Site, Nye County, Nevada, *in* Geological Survey Research 1963: U.S. Geological Survey Professional Paper 475-B, p. B64-B66.
- Healey, D.L., and Miller, C.H., 1966, Interpretation of gravity data in the Timber Mountain area of the Nevada Test Site: U.S. Geological Survey Report 474-308.
- Healey, D.L., and Miller, C.H., 1971, Gravity survey of the Amargosa Desert area of Nevada and California: U.S. Geological Survey Report USGS-474-136 [NTS-99]
- Healey, D.L., and Miller, C.H., 1979, Interpretation of gravity data in the Timber Mountain area of the Nevada Test Site: U.S. Geological Survey Report USGS-474-308 [NTS-105, 1966]
- Healey, D.L., Pistrang, M.A., and Barnes, Harley, 1967, Proposed Ue5m test area, southwest Frenchman Flat,

Nevada Test Site: U.S. Geological Survey Technical Letter NTS-189, dated April 11, 1967.

Healey, D.L., Wahl, R.R., Currey, F.E., and Stephens, W.E., 1978, Complete Bouguer gravity map of the Nevada part of the Death Valley 1 degree by 2 degree sheet: U.S. Geological Survey Report USGS-474-263.

Healey, D.L., Wahl, R.R., Currey, F.E., and Stephens, W.E., 1979, Complete Bouguer gravity map of the Caliente 1 degree by 2 degree sheet, Nevada and Utah: U.S. Geological Survey Report USGS-474-305.

Healy, J.H., 1969
see Hamilton, R.M., et al., 1969

Healy, J.H., 1984
see Stock, J.M., et al., 1984

Healy, J.H., and Hamilton, R.M., 1969, Seismic activity following the Benham nuclear explosion [abs.]: EOS, Transactions, American Geophysical Union, v. 50, no. 4, p. 248.

Healy, J.H., Hickman, S.H., Zoback, M.D., and Ellis, W.L., 1982, Deep borehole stress measurements at the Nevada Test Site [abs.]: EOS, Transactions, American Geophysical Union, v. 63, no. 45, p. 1099-1100.

Healy, J.H., Hickman, S.H., Zoback, M.D., and Ellis, W.L., 1984, Report on televiwer LOG and stress measurements in core hole USW-G1, Nevada Test Site, December 13-22, 1981: U.S. Geological Survey Open-File Report 84-15.

Heard, H.C., 1973
see Duba, A.G., et al., 1973

Hearst, J.R., 1985
see Hanson, J.M., and Hearst, J.R., 1985

Hearst, J.R., 1986, Research on gas transport in chimneys: a progress report: Lawrence Livermore National Laboratory Report UCID-20667.

Hearst, J.R., 1995, Calibration of density logs at the Nevada Test Site: Lawrence Livermore National Laboratory Report UCRL-ID-120664.

Hearst, J.R., and Burkhard, N.R., 1989, Study of the difference between gravimetric and gamma-gamma density near the surface in northern Yucca Flat: Lawrence Livermore National Laboratory Report UCRL-101709.

Hearst, J.R., and Carlson, R.C., 1993, Comparison of the moisture gauge and the neutron log in air-filled holes at NTS: Lawrence Livermore National Laboratory Report UCRL-JC-113797.

Heasler, P.G., 1991
see Foley, M.G., et al., 1991

Hedlund, D.C., 1968
see Ekren, E.B., et al., 1968

Hedlund, D.C., 1973
see Dixon, G.L., et al., 1973

- Hedlund, D.C., 1982
see Barnes, Harley, et al., 1982
- Heidker, J.C., 1992
see Case, C.M., et al., 1992
- Heiken, G.H., 1980
see Sykes, M.L., et al., 1980
- Heiken, G.H., 1982
see Broxton, D.E., et al., 1982
- Heiken, G.H., and Bevier, M.L., 1979, Petrology of tuff units from the J-13 drill site, Jackass Flats, Nevada: Los Alamos National Laboratory Report LA-7563-MS.
- Helmberger, D.V., 1979
see Hadley, D.M., and Helmberger, D.V., 1979
- Helmberger, D.V., 1981
see Scott, P., and Helmberger, D.V., 1981
- Helmberger, D.V., 1985
see Barker, J.S., et al., 1985
- Helmberger, D.V., 1986
see Stead, R.J., and Helmberger, D.V., 1986
- Helmberger, D.V., 1991
see Barker, J.S., et al., 1991
- Helmberger, D.V., Burdick, L.J., and Stead, R.J., 1991, Modeling near-field data at NTS and Amchitka, *in* Taylor, S.R., Patton, H.J., and Richards, P.G., eds., Explosion source phenomenology: Geophysical Monograph 65, p. 35-45.
- Helmberger, D.V., and Hadley, D.M., 1981, Seismic source functions and attenuation from local and teleseismic observations of the NTS events Jorum and Handley: Bulletin of the Seismological Society of America, v. 71, no. 1, p. 51-67.
- Henne, M.S., 1986
see Jacobson, R.L., et al., 1986
- Henny, R.W., 1977, The effect of the geologic setting on the distribution of ejecta from a buried nuclear detonation: Michigan State University unpublished Ph.D. dissertation.
- Herrin, Eugene, Goforth, Tom, and Ferguson, John, 1979, Crustal studies of the Nevada Test Site: interpretation of SMU line E-3: U.S. Air Force Office of Scientific Research Report AFOSR-TR-79-1309.
- Herring, D.M., Trexler, J.H., Jr., and Cashman, P.H., 1993, Evidence for local volcanism in Mississippian continental-margin strata in southwestern Nevada, Nevada Test Site: Abstracts with Programs--Geological Society of America, v. 25, no. 5, p. 51-52.
- Hershey, R.L., 1995
see Chapman, J.B., et al., 1995

- Hershey, R.L. and Brikowski, T.H., 1995, Continued investigations of the occurrence of water in Pahute Mesa emplacement holes: Desert Research Institute Report 45131 [DOE/NV/10845-52]
- Hershey, R.L. and Gillespie, D.R., 1993, Review of present groundwater monitoring programs at the Nevada Test Site: Desert Research Institute Report 45116 [DOE/NV/10845-32]
- Hertzler, C.L., 1989
see Atwood, C.L., and Hertzler, C.L., 1989
- Hess, A.E., and Paillet, F.L., 1991, Measurement of vertical flow in borehole UE-3e 4 using geophysical logs, Nevada Test Site, Nye County, Nevada: U.S. Geological Survey Water-Resources Investigation Report 90-4185.
- Hess, J.W., 1978
see Hansen, D.S., et al., 1978
- Hess, J.W., 1984
see Boughton, C.J., et al., 1984
- Hess, J.W., 1985
see French, R.H., and Hess, J.W., 1985
- Hess, J.W., 1986a
see Jacobson, R.L., et al., 1986
- Hess, J.W., 1986b
see Tyler, S.W., et al., 1986
- Hess, J.W., 1987
see Russell, C.E., et al., 1987
- Hess, J.W., 1990
see Ingraham, N.L., et al., 1990
- Hess, J.W., 1995
see Dettinger, M.D., et al., 1995
- Hess, J.W., and Jacobson, R.L., 1984, Hydrogeology of the Nevada Test Site and southern Amargosa Desert (field trip 21), *in* Lintz, J., Jr., ed., Western geological excursions; Volume 3, p. 224-248.
- Hess, J.W., Russell, C.E., and Tyler, S.W., 1988, Hydrogeologic effects of nuclear testing in fractured and zeolitized tuffs, Rainier Mesa, Nevada Test Site, *in* Symposium proceedings of the international conference on fluid flow in fractured rocks, p. 610.
- Hester, T.C., 1982
see Robbins, S.L., et al., 1982
- Hestir, K., 1991
see Karasaki, Kenzi, et al., 1991
- Hestir, K., Karasaki, Kenzi, and Grossenbacher, K., 1988, Fracture modeling at the Nevada Test Site: Lawrence Berkeley Laboratory Report 24200, p. 168-172.

Heuze, F.E., 1982, Geotechnical studies relevant to the containment of underground nuclear explosions at the Nevada Test Site: Lawrence Livermore National Laboratory Report UCRL-53267.

Heuze, F.E., Patrick, W.C., de la Cruz, R.V., and Voss, C.F., 1981, In situ geomechanics--Climax granite, NTS: Lawrence Livermore National Laboratory Report UCRL-53076.

Hibbard, D.E., 1957

see Johnson, M.S., and Hibbard, D.E., 1957

Hickman, S.H., 1982

see Healy, J.H., et al., 1982

Hickman, S.H., 1984a

see Healy, J.H., et al., 1984

Hickman, S.H., 1984b

see Stock, J.M., et al., 1984

Hicks, R.T., 1983

see Connolly, J.R., et al., 1983

Higgins, G.H., 1959, Evaluation of the ground-water contamination hazard from underground nuclear explosions: Journal of Geophysical Research, v. 64, p. 1509-1519 (also Lawrence Livermore National Laboratory Report UCRL-5538).

Higgins, J.D., 1993

see Mower, T.E., et al., 1993

Hildenbrand, T.G., Rogers, A.M., Oliver, H.W., Harmsen, S.C., Nakata, J.K., Aitken, D.S., Harris, R.N., and Carr, M.D., 1988, Regional geologic and geophysical maps of the southern Great Basin, in Carr, M.D., and Yount, J.C., eds, Geologic and hydrologic investigations of a potential nuclear waste disposal site at Yucca Mountain, southern Nevada: U.S. Geological Survey Bulletin 1790, p. 3-22.

Hinrichs, E.N., 1959

see Diment, W.H., et al., 1959

Hinrichs, E.N., 1961

see Gibbons, A.B., et al., 1961

Hinrichs, E.N., 1963

see Gibbons, A.B., et al., 1963

Hinrichs, E.N., 1965

see Ekren, E.B., et al., 1965

Hinrichs, E.N., 1968a, Geologic map of the Camp Desert Rock quadrangle, Nye County, Nevada: U.S. Geological Survey Geologic Quadrangle Map GQ-726, scale 1:24,000 [NTS-180]

Hinrichs, E.N., 1968b, Geologic structure of Yucca Flat area, Nevada, in Eckel, E.B., ed., Nevada Test Site: Geological Society of America Memoir 110, p. 239-246.

Hinrichs, E.N., 1968c

- see Ekren, E.B., et al., 1968
- Hinrichs, E.N., 1973, The stratigraphic section on Balloon Hill, Nevada Test Site: U.S. Geological Survey Report USGS-474-177 [NTS-252]
- Hinrichs, E.N., and Corchary, G.S., 1968, Geologic structure of Yucca Flat area, Nevada [abs.]: Geological Society of America Special Paper 101, p. 401.
- Hinrichs, E.N., and Gibbons, A.B., 1962, Geologic map of the Whiterock Springs quadrangle, Nye County, Nevada: U.S. Geological Survey Open-File Report.
- Hinrichs, E.N., and McKay, E.J., 1965, Geologic map of the Plutonium Valley quadrangle, Nye and Lincoln counties, Nevada: U.S. Geological Survey Geologic Quadrangle Map GQ-384, scale 1:24,000 [TEI-825]
- Hinrichs, E.N., and Orkild, P.P., 1961, Eight members of the Oak Spring Formation, Nevada Test Site and vicinity, Nye and Lincoln Counties, Nevada, *in* Geological Survey Research 1961: U.S. Geological Survey Professional Paper 424-D, p. D96-D103.
- Ho, C.H., 1995, Sensitivity in volcanic hazard assessment for the Yucca Mountain high-level nuclear waste repository site: the model and the data: *Mathematical Geology*, v. 27, no. 2, p. 239-258.
- Hodge, V.F., 1995
see Johannesson, K.H., et al., 1995
- Hodges, K.V., and Walker, J.D., 1992, Extension of the Cretaceous Sevier orogeny, North American Cordillera: *Geology*, v. 104, p. 560-569.
- Hodos, E.B., 1989
see Abbott, E.W., et al., 1989
- Hodson, J.N., 1978
see Healey, D.L., et al., 1978
- Hodson, J.N., 1979a
see Hoover, D.B., et al., 1979
- Hodson, J.N., 1979b
see Weir, J.E., Jr., and Hodson, J.N., 1979
- Hodson, J.N., and Hoover, D.L., 1978, Geology and lithologic log for drill hole UE17a, Nevada Test Site: U.S. Geological Survey Report USGS-1543-1.
- Hodson, S.W., 1983
see Travis, B.J., et al., 1983
- Hodson, S.W., 1984
see Travis, B.J., et al., 1984
- Hoffman, D.C., 1977a, Analysis of dirt from U4q: Letter report to Richard Henderson, Los Alamos National Laboratory.
- Hoffman, D.C., 1977b, Summary of RNM Activities During FY-76 and FY-77 (July 1, 1976 to September 30, 1977):

Los Alamos Scientific Laboratory Memorandum CNC-11 to R. W. Newman (November 10, 1977).

Hoffman, D.C., 1978a
see Daniels, W.R., 1978

Hoffman, D.C., 1978b
see Erdal, B.R., et al., 1978a

Hoffman, D.C., 1978c
see Erdal, B.R., et al., 1978b

Hoffman, D.C., 1979, A Field study of radionuclide migration, *in* Fried, Sherman, ed., Radioactive waste in geologic storage: American Chemical Society Symposium Series no. 100, p. 149-166.

Hoffman, D.C., 1980
see Wolfsberg, Kurt, et al., 1980

Hoffman, D.C., and Daniels, W.R., 1981a, Assessment of the potential for radionuclide migration from a nuclear-explosion cavity: Los Alamos National Laboratory Report LA-UR-81-3181.

Hoffman, D.C., and Daniels, W.R., 1981b, Assessment of the potential for radionuclide migration from a nuclear explosion cavity: EOS, Transactions, American Geophysical Union, v. 62, no. 45, p. 866.

Hoffman, D.C., and Daniels, W.R., 1983, Review of a field study of radionuclide migration from an underground nuclear explosion at the Nevada Test Site: Los Alamos National Laboratory Report LA-UR-83-493.

Hoffman, D.C., and Daniels, W.R., 1984, Assessment of the potential for radionuclide migration from a nuclear explosion cavity, *in* Bredehoeft, J.D., chairperson, Groundwater contamination: National Academy Press, p. 139-146.

Hoffman, D.C., Daniels, W.R., Wolfsberg, Kurt, Thompson, J.L., Rundbert, R.S., Fraser, S.L., and Daniels, K.S., 1983a, A review of a field study of radionuclide migration from an underground nuclear explosion: International Atomic Energy Agency Report LAEA-CN-43/469

Hoffman, D.C., Daniels, W.R., Wolfsberg, Kurt, Thompson, J.I., Rundberg, R.S., Fraser, S.L., and Daniels, K.S., 1983b, A review of a field study of radionuclide migration from an underground nuclear explosion at the Nevada Test Site: Los Alamos National Laboratory Report LA-UR-83-493.

Hoffman, D.C., and Stone, J.R., 1977, Radioactivity deposited underground by the Cambric nuclear explosion at the Nevada Test Site: Abstracts with Programs--Geological Society of America, v. 9, no. 7, p. 1018-1019.

Hoffman, D.C., Stone, J.R., and Dudley, W.W., Jr., 1977, Radioactivity in the underground environment of the Cambric nuclear explosion at the Nevada Test Site: Los Alamos National Laboratory Report LA-6877-MS.

Hofrichter, P., 1988
see Montazer, Parviz, et al., 1988

Hokett, S.L., 1993
see Brikowski, T.H., et al., 1993

Hokett, S.L., 1995
see Gillespie, D.R., et al., 1995

Holloway, R.W., Carilli, J.T., Faller, S.H., Liu, C.K., and Kuroda, P.K., 1989, Thorium-230 dating of thermal waters in the vicinity of the Nevada Test Site: *Journal of Radioanalytical and Nuclear Chemistry*, v. 131, no. 2, p. 359-367.

Holmes and Narver, 1988, Surficial geology of the Area 5 Radioactive Waste Management Site, Nevada Test Site: Holmes and Narver, Las Vegas, Nev.

Holzer, A., 1970, Gasbuggy in perspective, *in* Symposium on engineering with nuclear explosives, Las Vegas, Nev., Proceedings: NTIS Report CONF-700101, v.1, p. 29-42.

Honda, K.K., 1992

see Lum, P.K., and Honda, K.K., 1992

Honda, K.K., 1993

see Lum, P.K., and Honda, K.K., 1993

Hood, J.W., 1961, Water wells in Frenchman and Yucca valleys, Nevada Test Site, Nye County, Nevada: U.S. Geological Survey Open-File Report [TEI-788]

Hoover, D.B., 1982a

see Dixon, G.L., and Hoover, D.B., 1982

Hoover, D.B., 1982b

see Senterfit, R.M., et al., 1982

Hoover, D.B., 1984

see Scott, R.B., et al., 1984

Hoover, D.B., 1991

see Langenheim, V.E., et al., 1991

Hoover, D.B., Chornack, M.P., and Broker, M.M., 1982a, E-field ratio telluric traverses near Fortymile Wash, Nevada Test Site, Nevada: U.S. Geological Survey Open-File Report 82-1042.

Hoover, D.B., Chornack, M.P., Nervick, K.H., and Broker, M.M., 1982b, Electrical studies at the proposed Wahmonie and Calico Hills nuclear waste sites, Nevada Test Site, Nye County, Nevada: U.S. Geological Survey Open-File Report 82-466.

Hoover, D.B., Hanna, W.F., Anderson, L.A., Flanigan, V.J., and Pankratz, L.W., 1982c, Geophysical studies of the Syncline Ridge area, Nevada Test Site, Nye County, Nevada: U.S. Geological Survey Open-File Report 82-145.

Hoover, D.B., Weir, J.E., Jr., and Hodson, J.N., 1979, Complexity of structure and hydrology of Eleana Formation confirmed at Syncline Ridge, Nevada Test Site: U.S. Geological Survey Professional Paper 1150, p. 265-266.

Hoover, D.D., 1977

see Barnes, William and Hoover, D.D., 1977

Hoover, D.L., 1964, Flow structures in welded tuff, Nye County, Nevada [abs.]: Geological Society of America Special Paper 76, p. 83.

Hoover, D.L., 1966, Physical and chemical changes during zeolitization of vitric tuffs and lava flows, Nevada Test Site [abs.]: Geological Society of America Special Paper 87, p. 286-287.

- Hoover, D.L., 1968a, Genesis of zeolites, Nevada Test Site, *in* Eckel, E.B., ed., Nevada Test Site: Geological Society of America Memoir 110, p. 275-284.
- Hoover, D.L., 1968b
see Ekren, E.B., et al., 1968
- Hoover, D.L., 1968c
see Orkild, P.P., et al., 1968
- Hoover, D.L., 1978a
see Healey, D.L., et al., 1978
- Hoover, D.L., 1978b
see Hodson, J.N., and Hoover, D.L., 1978
- Hoover, D.L., 1983
see Swadley, W.C., and Hoover, D.L., 1983
- Hoover, D.L., 1984
see Swadley, W.C., et al., 1984
- Hoover, D.L., 1985
see Rosholt, J.N., et al., 1985
- Hoover, D.L., 1989a, Preliminary description of Quaternary and late Pliocene surficial deposits at Yucca Mountain and vicinity, Nye County, Nevada: U.S. Geological Survey Open-File Report 89-359.
- Hoover, D.L., 1989b
see Swadley, W.C., and Hoover, D.L., 1989
- Hoover, D.L., 1990
see Swadley, W.C., and Hoover, D.L., 1990
- Hoover, D.L., 1995
see Swadley, W.C., et al., 1995
- Hoover, D.L., Eckel, E.B., and Ohl, J.P., 1978, Potential sites for a Spent Unreprocessed Fuel Facility (SURFF), southwestern part of the Nevada Test Site: U.S. Geological Survey Open-File Report 78-269.
- Hoover, D.L., and Magner, J.E., 1990, Geology of the Rainier Mesa-Aqueduct Mesa tunnel areas--U12n tunnel: U.S. Geological Survey Open-File Report 90-623.
- Hoover, D.L., and Morrison, J.N., 1980, Geology of the Syncline Ridge area related to nuclear waste disposal, Nevada Test Site, Nye County, Nevada: U.S. Geological Survey Open-File Report 80-942.
- Hoover, D.L., and Shepard, A.O., 1965, Zeolite zoning in volcanic rocks at the Nevada Test Site, Nye County, Nevada [abs.]: American Mineralogist, v. 50, nos. 1-2, p. 287.
- Hoover, D.L., Swadley, W.C., and Gordon, A.C., 1981, Correlation characteristics of surficial deposits with a description of surficial stratigraphy in the Nevada Test Site region: U.S. Geological Survey Open-File Report 81-512.
- Hoover, D.L., and Trudeau, D.A., 1987, High fluid levels in drill holes, Yucca Flat, Nevada Test Site, *in* Olsen,

C.W., et al., eds., Proceedings of the fourth symposium on containment of underground nuclear explosions, September 21-24, 1987, v. 2: NTIS Report CONF-870961, p. 363-372.

Hoover, K.A., 1991
see Foley, M.G., et al., 1991

Horton, E.H., 1983
see Albright, J.N., et al., 1983

Hostetler, S.W., 1991
see Benson, L.V., and Hostetler, S.W., 1991

Houser, F.N., 1959a
see Diment, W.H., et al., 1959

Houser, F.N., 1959b
see McKeown, F.A., et al., 1959

Houser, F.N., 1961a, Lithologic logs of three exploratory core holes, U15b area, Climax stock, Nevada Test Site, Nye County, Nevada: U.S. Geological Survey Open-File Report [TEI-792]

Houser, F.N., 1961b
see Gibbons, A.B., et al., 1961

Houser, F.N., 1961c
see Poole, F.G., et al., 1961

Houser, F.N., 1962a, Outline of geology of the U12k and U12k.01 tunnels Area 12, Nevada Test Site: U.S. Geological Survey Open-File Report [TEI-8171]

Houser, F.N., 1962b
see Emerick, W.L., and Houser, F.N., 1962

Houser, F.N., 1962c
see Laraway, W.H., and Houser, F.N., 1962

Houser, F.N., 1963
see Barnes, Harley, et al., 1963

Houser, F.N., 1968, Application of geology to underground nuclear testing, Nevada Test Site, *in* Eckel, E.B., ed., Nevada Test Site: Geological Society of America Memoir 110, p. 21-33.

Houser, F.N., 1969a, Seismic signals preceding collapse at U3ct, Nevada Test Site: U.S. Geological Survey Report USGS-474-21, rev. 1 [NTS- 214, rev. 1]

Houser, F.N., 1969b, Subsidence related to underground nuclear explosions, Nevada Test Site: Seismological Society of America Bulletin, v. 59, no. 6, p. 2231-2251.

Houser, F.N., 1969c, A summary of information and ideas regarding sinks and collapse, Nevada Test Site: U.S. Geological Survey Report USGS-474-41 [NTS-216]

Houser, F.N., 1969d

see Christiansen, R.L., et al., 1969

Houser, F.N., 1970a, Near-surface sink structure, Nevada Test Site: U.S. Geological Survey Report USGS-474-36, Rev. 1 [NTS-217, rev. 1]

Houser, F.N., 1970b, Sequence of surface movement and fracturing during sink subsidence, Nevada Test Site: U.S. Geological Survey Report USGS-474-56 [NTS-219]

Houser, F.N., 1970c, A Summary of information and ideas regarding sinks and collapse, NTS: U.S. Geological Survey Report 474-41 [NTS-216]

Houser, F.N., Davis, R.E., and Emerick, W.L., 1961, Geologic reconnaissance of granitic intrusive masses at Gold Meadows, Tem Piute, and Trappman's Camp, Lincoln and Nye Counties, Nevada, and comparison with the Climax stock at the Nevada Test Site: U.S. Geological Survey Open-File Report, 20 p. [TEI-793]

Houser, F.N., and Eckel, E.B., 1962, Possible engineering uses of subsidence induced by contained underground nuclear explosions, in Geological Survey Research 1962: U.S. Geological Survey Professional Paper 450-C, p. C17-C18.

Houser, F.N., and Emerick, W.L., 1964, Preliminary structural analysis of explosion produced fractures, Hardhat event, Area 15, Nevada Test Site, in Geological Survey Research 1964: U.S. Geological Survey Professional Paper 501-C, p. C100-C102.

Houser, F.N. and Poole, F.G., 1959a, 'Granite' exploration hole, Area 15, Nevada Test Site, Nye County, Nevada--interim report, part A, structural petrographic, and chemical data: U.S. Geological Survey Open-File Report [TEM-836]

Houser, F.N. and Poole, F.G., 1959b, Lithologic log and drilling information for the Marble exploration hole 3, U15 Area, Nevada Test Site, Nye County, Nevada: U.S. Geological Survey Open-File Report [TEM-1031]

Houser, F.N., and Poole, F.G., 1960a, Preliminary geologic map of the Climax Stock and vicinity, Nye county, Nevada: U.S. Geological Survey Miscellaneous Geologic Investigations Map I-328, scale 1:4,800.

Houser, F.N., and Poole, F.G., 1960b, Primary structures in pyroclastic rocks of the Oak Spring Formation (Tertiary), northeastern Nevada Test Site, Nye County, Nevada [abs.]: Geological Society of America Bulletin, v. 71, no. 12, pt. 2, p. 2062-2063.

Houser, F.N., and Poole, F.G., 1960c, Structural features of pyroclastic rocks of the Oak Spring Formation at the Nevada Test Site, Nye County, Nevada, as related to the topography of the underlying surface, in Geological Survey Research 1960: U.S. Geological Survey Professional Paper 400-B, p. B266-B268.

Houser, F.N., and Poole, F.G., 1961, Age relations of the Climax composite stock, Nevada Test Site, Nye County, Nevada, in Geological Survey Research 1961: U.S. Geological Survey Professional Paper 424-B, p. B176-B177.

Howard, N.W., 1975

see Ramspott, L.D., and Howard, N.W., 1975

Howard, N.W., 1976, Lawrence Livermore Laboratory nuclear test effects and geologic data bank: NTIS Report CONF-7611441-1.

Howard, N.W., 1979a, LLL K Division nuclear test effects and geologic data base: glossary and parameter definitions (U): Lawrence Livermore Laboratory Report UCID-18300 (Pt.1).

- Howard, N.W., 1979b
see McKague, H.L., et al., 1979
- Howard, N.W., 1983, LLNL (Lawrence Livermore National Laboratory) containment program nuclear test effects and geologic data base: glossary and parameter definitions: Lawrence Livermore National Laboratory Report UCID-18300-Pt.1-Rev.1.
- Howard, N.W., 1985, Variation in properties of nuclear test areas and media at the Nevada Test Site: Lawrence Livermore National Laboratory Report UCRL-53721.
- Howard, N.W., and Bell, C.A., 1983, Stratigraphic contacts for drill holes at the Nevada Test Site: Lawrence Livermore National Laboratory Report UCID-19785.
- Howard, N.W., and Bell, C.A., 1984, Stratigraphic contacts for drill holes at the Nevada Test Site: Lawrence Livermore National Laboratory Report UCID-19785-84.
- Howard, N.W., Richardson, W.W., and Pickens, M., 1985, Stratigraphic contacts for drill holes at the Nevada Test Site: Lawrence Livermore National Laboratory Report UCID-19785-85.
- Hu, H., 1988
see Gardner, T.W., et al., 1988
- Huber, N.K., 1988, Late Cenozoic evolution of the upper Amargosa River drainage system, southwestern Great Basin, Nevada and California: U.S. Geological Survey Open-File Report 87-617.
- Huckaby, G.W., 1973
see Anspaugh, L.R., et al., 1973
- Huckings-Gang, H.E., 1995
see Snyder, K.E., et al., 1995
- Huckins, H.E., 1987
see Yount, J.C., et al., 1987
- Huckins, H.E., 1990
see Swadley, W.C., and Huckins, H.E., 1990
- Hudson, G.B., 1993
see Davisson, M.L., et al., 1993
- Hudson, G.B., 1994
see Davisson, M.L., et al., 1994
- Hudson, M.H., 1992, Paleomagnetic data bearing on the origin of arcuate structures in the French Peak-Massachusetts Mountain area of southern Nevada: Geological Society of America Bulletin, v. 104, p. 581-594.
- Hudson, M.R., 1988, Paleomagnetic investigations of Tertiary rotations, southwest Nevada-Evaluation of the Yucca-Frenchman flexure [abs.]: EOS, Transactions, American Geophysical Union, v. 69, no. 44, p. 1164.
- Hudson, M.R., 1989a, Paleomagnetic evaluation of the Yucca-Frenchman flexure, southern Nevada, in Olsen, C.W, and Carter, J.A., eds., Proceedings of the fifth symposium on containment of underground nuclear explosions, v. 2: NTIS Report CONF-8909163, p. 417-430.

- Hudson, M.R., 1989b
see Cole, J.C., et al., 1989
- Hudson, M.R., 1990
see Rosenbaum, J.G., and Hudson, M.R., 1990
- Hudson, M.R., 1992a, Paleomagnetic data bearing on the origin of arcuate structures in the French Peak-Massachusetts Mountain area of southern Nevada: Geological Society of America Bulletin, v. 104, no. 5, p. 581-594.
- Hudson, M.R., 1992b
see O'Neill, J.M., et al., 1992
- Hudson, M.R., 1993
see Minor, S.A., et al., 1993
- Hudson, M.R., 1994a
see Cashman, P.H., et al., 1994
- Hudson, M.R., 1994b
see Cole, J.C., et al., 1994
- Hudson, M.R., 1994c
see Sawyer, D.A., et al., 1994
- Hudson, M.R., and Rosenbaum, J.G., 1990, Paleomagnetism of the southwestern Nevada volcanic field: Absence of vertical-axis rotation [abs.]: EOS, Transactions, American Geophysical Union, v. 71, no. 43, p. 1295.
- Hunt, C.B., Robinson, T.W., Bowles, W.A., and Washburn, A.L., 1966, Hydrologic basin, Death Valley, California: U.S. Geological Survey Professional Paper 494-B.
- Hunt, J.R., 1988
see Buddemeier, R.W. and Hunt, J.R., 1988
- Hunt, J.R., 1989, Colloid migration in fractured media, 1988-1989 annual report: Lawrence Livermore National Laboratory Report UCRL-CR-105154.
- Hunt, J.R., 1994
see Kessler, J.H., and Hunt, J.R., 1994
- Hunt, R.W., 1967
see Carter, L.D., et al., 1967
- Hunter, R.B., 1991
see Schulz, R.K., et al., 1991
- Husler, John, 1983
see Connolly, J.R., et al., 1983
- Husler, John, 1984
see Connolly, J.R., et al., 1984
- Hustrulid, W.H., 1978

- see Pratt, H.R., et al., 1978
- Huysken, K.T., 1993, Chemical variation of the tephra fall beneath the Rainier Mesa ash-flow sheet; implications for incremental growth of a large magma body: Michigan State University unpublished master's thesis.
- Illian, J.R., 1968
see Fiero, G.W., Mindling, A.L., and Illian, J.R., 1968
- Illian, J.R., 1969
see Fiero, G.W., and Illian, J.R., 1969
- Ingraham, N.L., 1992
see Sadler, W.R., et al., 1992
- Ingraham, N.L., Jacobson, R.L., Hess, J.W., and Lyles, B.F., 1990, Stable isotopic study of precipitation and spring discharge on the Nevada Test Site: Desert Research Institute Report 45078 [DOE/NV/10845-03]
- Isherwood, D.J., 1977, Preliminary report on retardation factors and radionuclide migration: Lawrence Livermore National Laboratory Report UCID-17551.
- Isherwood, D.J., 1984
see Ballou, L.B., et al., 1984
- Isherwood, D.J., 1985
see Buddemeier, R.W. and Isherwood, D.J., 1985
- Isherwood, D.J., Harrar, J.E., and Raber, Ellen, 1982, Characterization of Climax granite ground water: Lawrence Livermore National Laboratory Report UCRL-53309.
- Isherwood, D.J., Raber, Ellen, and Stone, R., 1981, Site characterization for field radionuclide migration studies in Climax granite: Lawrence Livermore National Laboratory Report UCRL-86194.
- Isherwood, W.F., 1990
see Harrar, J.E., et al., 1990
- Istok, J.D., Blout, D.O., Barker, L., Johnejack, K.R., and Hammermeister, D.P., 1994, Spatial variability in alluvium properties at a low-level nuclear waste site: Soil Science Society of America Journal, v. 58, no. 4, p. 1040-1051.
- IT Corporation, in press a, Groundwater recharge and discharge data documentantion package: Underground Test Area Project Phase 1 Data Analysis Task, v. 3: IT Corporation, Las Vegas, Nev., report.
- IT Corporation, in press b, Hydrologic parameter data documentantion package: Underground Test Area Project Phase 1 Data Analysis Task, v. 4: IT Corporation, Las Vegas, Nev., report.
- IT Corporation, in press c, Potentiometric data documentantion package: Underground Test Area Project Phase 1 Data Analysis Task, v. 2: IT Corporation, Las Vegas, Nev., report.
- IT Corporation, in press d, Regional geologic model data documentantion package: Underground Test Area Project Phase 1 Data Analysis Task, vol. 1: IT Corporation, Las Vegas, Nev., report.
- IT Corporation, in press e, Regional groundwater flow and tritium transport modeling and risk assessment of the

Underground Test Area, Nevada Test Site, Nevada: IT Corporation, Las Vegas, Nev., report.

IT Corporation, in press f. Transport parameter and source term data documentantion package: Underground Test Area Project Phase 1 Data Analysis Task, vol. 5: IT Corporation, Las Vegas, Nev., report.

Izett, G.A., 1959

see Diment, W.H., et al., 1959

Izett, G.A., 1988, The Bishop ash bed (middle Pleistocene) and some older (Pliocene and Pleistocene) chemically and mineralogically similar ash beds in California, Nevada, and Utah: U.S. Geological Survey Bulletin 1675.

Jackson, D.D., 1976

see Weed, H.C., et al., 1976

Jackson, D.D., 1979

see Coles, D.G., et al., 1979

Jackson, M.R., 1988, Timber Mountain magmato-thermal event: an intense widespread culmination of magmatic and hydrothermal activity at the southwestern Nevada volcanic field: U.S. Dept. of Energy Report DOE/NV10461-T41 (also unpublished University of Nevada, Reno master's thesis).

Jackson, W.H., 1959

see Diment, W.H., et al., 1959

Jacobson, R.L., 1978

see Hansen, D.S., et al., 1978

Jacobson, R.L., 1982, Hydrologic "short-circuits" in the unsaturated zone: Nevada Test Site: EOS, Transactions, American Geophysical Union, v. 63, no. 18, p. 330-331.

Jacobson, R.L., 1984a

see Boughton, C.J., et al., 1984

Jacobson, R.L., 1984b

see Hess, J.W., and Jacobson, R.L., 1984

Jacobson, R.L., 1986

see Tyler, S.W., et al., 1986

Jacobson, R.L., 1987

see Feeney, T.A., et al., 1987

Jacobson, R.L., 1988

see Kingston, W.L., et al., 1988

Jacobson, R.L., 1990a

see Ingraham, N.L., et al., 1990

Jacobson, R.L., 1990b

see Lyles, B.F., et al., 1990

Jacobson, R.L., 1990c

- see Tyler, S.W., and Jacobson, R.L., 1990
- Jacobson, R.L., 1991a
see Cullen, J.J., et al., 1991
- Jacobson, R.L., 1991b
see Russell, C.E., et al., 1991
- Jacobson, R.L., 1992
see Sadler, W.R., et al., 1992
- Jacobson, R.L., 1993
see Andricevic, Roko, et al., 1993
- Jacobson, R.L., 1994a
see Andricevic, Roko, et al., 1994
- Jacobson, R.L., 1994b
see French, R.H., and Jacobson, R.L., 1994
- Jacobson, R.L., 1994c
see Russell, C.E., et al., 1994
- Jacobson, R.L., in press
see Erikson, S.J., and Jacobson, R.L., in press
- Jacobson, R.L., Henne, M.S., and Hess, J.W., 1986, A reconnaissance investigation of hydrogeochemistry and hydrology of Rainier Mesa: Desert Research Institute Report 45046 [DOE/NV/10384-05]
- Jahren, C.E., 1982
see Baldwin, M.J., and Jahren, C.E., 1982
- Jahren, C.E., 1983
see Bath, G.D., et al., 1983
- James, O.B., 1969, Shock and thermal metamorphism of basalt by nuclear explosion, Nevada Test Site: Science, v. 166, no. 3913, p. 1615-1620.
- Jansma, P.E., Snyder, D.B., and Ponce, D.A., 1983, Principal facts of gravity stations with gravity and magnetic profiles from the southwest Nevada Test Site, Nye County, Nevada, as of January 1982: U.S. Geological Survey Open-File Report 82-1041.
- Janzer, V.J., 1962a
see Beetem, W.A., et al., 1962
- Janzer, V.J., 1962b
see Goldberg, M.C., et al., 1962
- Jarpe, S.P., 1990
see Zandt, George, et al., 1990
- Jarpe, S.P., 1993

see Nakanish, K.K., et al., 1993

Jarpe, S.P., Goldstein, Peter, and Zucca, J.J., 1994, Comparison of the non-proliferation event aftershocks with other Nevada Test Site events: Lawrence Livermore National Laboratory Report UCRL-JC-117754.

Jarvis, A.N., 1992, Quality assurance for radiochemical measurements and monitoring, *in* Hazardous waste site investigations: Toward better decisions: CRC Press, Inc., p. 81-90.

Jenkins, E.C., 1967

see Dickey, D.D., et al., 1967

Jenkins, E.C., 1968

see Carr, W.J., et al., 1968

Jenkins, E.C., 1969a, Summary geologic report on the UE20p exploratory hole, Area 20, Pahute Mesa, Nevada Test Site: U.S. Geological Survey Report USGS-474-15.

Jenkins, E.C., 1969b

see Dickey, D.D., et al., 1969

Jenkins, E.C., 1970a, Revised lithologic log of Pahute Mesa exploratory drill hole no. 1, Nevada Test Site: U.S. Geological Survey Report USGS-474-96.

Jenkins, E.C., 1970b

see Orkild, P.P., and Jenkins, E.C., 1970

Jenkins, E.C., 1973, Surface fracturing of the Carpetbag event, Yucca Flat, Nevada Test Site, Nevada: U.S. Geological Survey Report USGS 474-160 [NTS-233]

Jenkins, E.C., 1978

see Orkild, P.P., and Jenkins, E.C., 1978

Jenkins, E.C., 1981

see Twenhofel, W.S., et al., 1981

Jenkins, E.C., 1983

see Twenhofel, W.S., et al., 1983

Jenkins, E.C., 1984

see Ander, H.D., et al., 1984

Johannesson, K.H., Stetzenbach, K.J., and Hodge, V.F., 1995a, Speciation of the rare element neodymium in groundwaters of the Nevada Test Site and Yucca Mountain and implications for actinide solubility: *Applied Geochemistry*, v. 10, no. 5, p. 565-572.

Johannesson, K.H., Stetzenbach, K.J., Kremer, D.K., and Hodge, V.F., 1995b, Multivariate statistical analysis of arsenic and selenium concentrations in groundwaters from south-central Nevada and Death Valley, California: *Journal of Hydrology*, v. 178, no. 1/4, p. 181-204.

Johnejack, K.R., 1993

see Ginanni, J.M., et al., 1993

- Johnejack, K.R., 1994
see Istok, J.D., et al., 1994
- Johnson, G.R., 1959
see Diment, W.H., et al., 1959
- Johnson, J.N., 1974
see Shipman, F.H., et al., 1974
- Johnson, K.A., 1984
see Craig, R.W. and Johnson, K.A., 1984
- Johnson, L.R., 1980
see McLaughlin, K.L., and Johnson, L.R., 1980
- Johnson, L.R., 1984
see Leonard, M.A., and Johnson, L.R., 1984
- Johnson, L.R., 1987a
see Leonard, M.A., and Johnson, L.R., 1987
- Johnson, L.R., 1987b
see Leonard, M.A., et al., 1987
- Johnson, L.R., 1994a, Recording experiment on Rainier Mesa in conjunction with a reflection survey: Lawrence Berkeley Laboratory Report LBL-35946.
- Johnson, L.R., 1994b
see Majer, E.L., et al., 1994
- Johnson, M.E., 1991
see Arteaga, F.E., et al., 1991
- Johnson, M.J., 1989
see Abbott, E.W., et al., 1989
- Johnson, M.S., and Hibbard, D.E, 1957, Geology of the Atomic Energy Commission Nevada Proving Grounds area, Nevada: U.S. Geological Survey Bulletin 1021-K, p. K333-K384.
- Johnson, R.B, and Ege, J.R., 1964, Geology of the Pluto site, Area 401, Nevada Test Site, Nye County, Nevada: U.S. Geological Survey Open-File Report [TEI-841]
- Johnson, R.L., and Bauer, S.J., 1991, Preliminary numerical modeling for the G-tunnel welded tuff mining experiment: Yucca Mountain Site Characterization Project: Sandia National Laboratories Report SAND-88-0810.
- Johnston, C.A., 1993
see Nakanish, K.K., et al., 1993
- Johnston, R.H., 1967
see Garber, M.S, and Johnston, R.H., 1967
- Johnston, R.H, 1968, U.S. Geological Survey tracer study, Amargosa Desert, Nye County, Nevada; Part 1:

Exploratory drilling tracer well construction and testing and preliminary findings: U.S. Geological Survey Report USGS-474-98.

Johnstone, J.K., and Wolfsberg, Kurt, eds., 1980a, Evaluation of tuff as a medium for a nuclear waste repository: Interim status report on the properties of tuff: Sandia National Laboratories Report SAND80-1464.

Johnstone, J.K., and Wolfsberg, Kurt, 1980b, Executive summary of tuff evaluation report, *in* Wolfsberg, Kurt, Erdal, B.R., and Smyth, J.R., comps., Research and development related to the Nevada nuclear waste storage investigations: April 1-June 30, 1980: Los Alamos Scientific Laboratory Report LA-8471, p. 33-39.

Jones, A.H., 1973a
see Butters, S.W., et al., 1973

Jones, A.H., 1973b
see Swolfs, H.S., et al., 1973

Jones, A.H., 1974
see Haimson, B.C., et al., 1974

Jones, A.H., 1978
see Gardiner, D.S., et al., 1978

Jones, A.K., 1980?
see Olsson, W.A., and Jones, A.K., 1980?

Jones, A.K., 1982a
see Price, R.H., and Jones, A.K., 1982

Jones, A.K., 1982b
see Price, R.H., et al., 1982

Jones, B.F., 1982, Mineralogy of fine grained alluvium from borehole U11g, Expl. 1, northern Frenchman Flat area, Nevada Test Site: U.S. Geological Survey Open-File Report 82-765.

Jones, M.A., comp., 1992, Hydrology/Radionuclide Migration Program and related research activities, FY 1986 progress report (October 1, 1985-September 30, 1986): Desert Research Institute Report DOE/NV-354.

Jordan, T.H., 1981
see Minster, J.B., et al., 1981

Joung, H.M., 1972
see Bateman, R.L., et al., 1972

Jungblut, W.L., 1977
see Navarro, Richard, et al., 1977

Kane, M.F., 1959
see Diment, W.H., et al., 1959

Kane, M.F., Bath, G.D., Snyder, D.B., Rosenbaum, J.G., Oliver, H.W., Ponce, D.A., and Healey, D.L., 1982, Gravity and magnetic studies in the region of the Nevada Test Site [abs.]: EOS, Transactions, American Geophysical Union, v. 63, no. 45, p. 1099.

Kane, M.F., and Bracken, R.E., 1983, Aeromagnetic map of Yucca Mountain and surrounding regions, southwest Nevada: U.S. Geological Survey Open-File Report 83-616.

Kane, M.F., Webring, M.W., and Bhattacharyya, B.K., 1981, A preliminary analysis of gravity and aeromagnetic surveys of the Timber Mountain area, southern Nevada: U.S. Geological Survey Open-File Report 81-189.

Kansa, E., 1992

see McKague, H.L., et al., 1992

Kao, C.S., Smith, D.K., and McKinnis, W.B., 1994, New observations of infiltration through fractured alluvium in Yucca Flat, Nevada Test Site: a preliminary field investigation: Lawrence Livermore National Laboratory Report UCRL-ID-116129.

Kaplan, P.G., 1992, Uncertainty and sensitivity results for pre-waste-emplacement groundwater travel time, *in* High level radioactive waste management; proceedings of the third international conference, v. 3: American Nuclear Society, p. 1643-1646.

Karasaki, Kenzi, 1988

see Hestir, K., et al., 1988

Karasaki, Kenzi, Davey, Amy, Peterson, J.E., Hestir, K., and Long, J.C.S., 1991, Modeling of flow and transport in fracture networks, *in* Gomberg, J.S., ed., U.S. Geological Survey Committee for the Advancement of Science in the Yucca Mountain Project, symposium on fractures, hydrology, and Yucca Mountain: Abstracts and summary: U.S. Geological Survey Open-File Report 91-125, p. 27.

Kargeorgi, E.K., 1994

see Majer, E.L., et al., 1994

Kasameyer, P.W., 1992

see McKague, H.L., et al., 1992

Kauahikaua, J.P., 1981, Interpretation of time-domain electromagnetic soundings in the Calico Hills area, Nevada Test Site, Nye County, Nevada: U.S. Geological Survey Open-File Report 81-988.

Kaufmann, R.F., 1974

see Naff, R.L., et al., 1974

Kautsky, Mark, 1984a, Sorption of cesium and strontium by arid region desert soil: Desert Research Institute Report 45037.

Kautsky, Mark, 1984b

see Case, C.M., et al., 1984

Kearl, P.M., 1982, Water transport in desert alluvial soil: Desert Research Institute Report 45024 [DOE/NV/10162-2]

Kearl, P.M., 1984

see Case, C.M., et al., 1984

Keil, Klaus, 1984

see Connolly, J.R., et al., 1984

Keil, Klaus, 1985

- see Connolly, J.R., and Keil, Klaus, 1985
- Keller, G.R., 1993, Lithospheric profiles in the southwestern U.S. using Nevada Test Site sources: U.S. Air Force Office of Scientific Research Report AFOSR-TR-93-0691.
- Keller, G.V., 1959a, Character of the Oak Spring Formation (Tertiary) [abs.]: Geological Society of America Bulletin, v. 70, no. 12, pt. 2, p. 1628-1629.
- Keller, G.V., 1959b
see Diment, W.H., et al., 1959
- Keller, G.V., 1960, Physical properties of tuffs of the Oak Spring Formation, Nevada: U.S. Geological Survey Professional Paper 400-B, p. B396-B400.
- Keller, G.V., 1962, Electrical resistivity of rocks in the Area 12 tunnels, Nevada Test Site, Nye County, Nevada: Geophysics, v. 27, no. 2, p. 242-252.
- Kendall, E.W., 1991
see Schulz, R.K., et al., 1991
- Kenneally, J.M., 1993
see Davisson, M.L., et al., 1993
- Kenneally, J.M., 1994
see Davisson, M.L., et al., 1994
- Kenneally, J.M., 1995
see Smith, D.K., et al., 1995
- Kenneally, J.M., 1996
see Smith, D.K., et al., 1996
- Kenneally, J.M., Davisson, M.L., and Smith, D.K., 1995, Multi-isotopic evidence for regional scale groundwater flow into Yucca Flat, Nevada Test Site, southern Nevada: Abstracts with Programs--Geological Society of America, v. 27, p. 57.
- Kenneally, J.M., Harris, L.J., and Nimz, G.J., 1994, Technique development for the extraction of environmental levels of iodine from groundwaters at the Nevada Test Site for the purpose of 129I/127I analyses: Lawrence Livermore National Laboratory Report UCRL-ID-116146.
- Kerrisk, J.F., 1983, Reaction-path calculations of groundwater chemistry and mineral formation at Rainier Mesa, Nevada: Los Alamos National Laboratory Report LA-9912-MS.
- Kerrisk, J.F., 1987, Groundwater chemistry at Yucca Mountain, Nevada, and vicinity: Los Alamos National Laboratory Report LA-10929-MS.
- Kessler, J.H., and Hunt, J.R., 1994, Dissolved and colloidal contaminant transport in a partially clogged fracture: Water Resources Research, v. 30, no. 4, p. 1195-1206.
- Kibler, J.E., 1980
see Brethauer, G.E., et al., 1980

- Kibler, J.E., 1983a
see Carroll, R.D., and Kibler, J.E., 1983
- Kibler, J.E., 1983b
see Ellis, W.L., and Kibler, J.E., 1983
- Kibler, J.E., 1983c
see Muller, D.C., and Kibler, J.E., 1983
- Kibler, J.E., 1983d
see Twenhofel, W.S., et al., 1983
- Kibler, J.E., 1991
see Nelson, P.H., et al., 1991
- Kieft, T.L., Amy, P.S., Brockman, F.J., Fredrickson, J.K., Bjornstad, B.N., and Rosacker, L.L., 1993, Microbial abundance and activities in relation to water potential in the vadose zones of arid and semiarid sites: *Microbial Ecology*, v. 26, no. 1, p. 59-78.
- Kilroy, K.C., 1989, Water-related scientific activities of the U.S. Geological Survey in Nevada, fiscal years 1985-89: U.S. Geological Survey Open-File Report 89-264.
- Kilroy, K.C., 1991, Ground-water conditions in Amargosa Desert, Nevada-California, 1952-87: U.S. Geological Survey Water-Resources Investigations Report 89-4101.
- King, K.M., 1988
see Emer, D.F., and King, K.M., 1988
- King, K.W., 1982, Study of surface and subsurface ground motions at Calico Hills, Nevada Test Site: U.S. Geological Survey Open-File Report 82-1044.
- Kingston, W.L., 1989, Characterization of colloids found in various groundwater environments in central and southern Nevada: University of Nevada, Reno unpublished master's thesis.
- Kingston, W.L., Jacobson, R.L., and Whitbeck, M.R., 1988, Sampling and analysis of colloids in groundwater at the Nevada Test Site, in McCarthy, J.F., and Wobber, F.J., conveners, Mobility of colloidal particles in the subsurface; chemistry and hydrology of colloid-aquifer interactions: U.S. Dept. of Energy Report DOE/ER-0425, p. 35-39.
- Kinoshita, W.T., 1973
see Savage, J.C., et al., 1973
- Kinoshita, W.T., 1974
see Savage, J.C., et al., 1974
- Kinoshita, W.T., and Savage, J.C., 1971, Geodetic determination of strain from a nuclear explosion at the Nevada Test Site [abs.]: *Abstracts with Programs--Geological Society of America*, v. 3, no. 2, p. 143.
- Kirchoff-Stein, K.S., Ponce, D.A., and Chuchel, B.A., 1989, Preliminary aeromagnetic map of the Nevada Test Site and vicinity, Nevada: U.S. Geological Survey Open-File Report 89-446.
- Kistler, R.W., 1965

- see Noble, D.C., et al., 1965
- Kistler, R.W., 1968, Potassium-argon ages of volcanic rocks in Nye and Esmeralda counties, Nevada, *in* Eckel, E.B., ed., Nevada Test Site: Geological Society of America Memoir 110, p. 251-262.
- Klavetter, E.A., 1987
see Peters, R.R., et al., 1987
- Klavetter, E.A., 1988
see Peters, R.R., and Klavetter, E.A., 1988
- Klemper, S.L., 1987
see Allmendinger, R.W., et al., 1987
- Knauss, K.G., 1981a, Dating fault associated Quaternary material from the Nevada Test Site using uranium-series methods: Lawrence Livermore National Laboratory Report UCRL 63231.
- Knauss, K.G., 1981b, Dating fault-associated Quaternary material from the Nevada Test Site using uranium-series methods: Abstracts with Programs--Geological Society of America, v. 13, no. 7, p. 489.
- Knauss, K.G., 1984, Petrologic and geochemical characterization of the Tonopah Spring Member of the Paintbrush Tuff: Outcrop samples used in waste packaging experiments: Lawrence Livermore Laboratory Report UCRL-53558.
- Knauss, K.G., and Beiriger, W.B., 1984, Report on static hydrothermal alteration studies of Topopah Spring Tuff waters in J-13 water at 150 degrees C: Lawrence Livermore National Laboratory Report UCRL-53576.
- Knauth, P., 1980
see Sykes, M.L., et al., 1980
- Knowlton, G.D., and McKague, H.L., 1976, Study of the water content in zeolitic tuffs from the Nevada Test Site: Lawrence Livermore National Laboratory Report UCRL-78013 (also U.S. Dept. of Energy Report CONF-760626-1).
- Knowlton, G.D., and McKague, H.L., 1976, A study of the water content in zeolitic tuffs from the USERDA Nevada Test Site, *in* Zeolite '76; an international conference on the occurrence, properties, and utilization of natural zeolites: State Univ. Coll., Brockport, N.Y., p. 40-41.
- Knox, J.B., Rawson, D.E., and Korver, J.A., 1965, Analysis of a groundwater anomaly created by an underground nuclear explosion: Journal of Geophysical Research, v. 70, no. 4, p. 823-835.
- Koether, S.L., 1983
see Maldonado, Florian, and Koether, S.L., 1983
- Kohn, S.B., 1992
see Ponce, D.A., et al., 1992
- Kohn, S.B., 1993
see Ponce, D.A., et al., 1993
- Korbin, G., 1983
see Wollenberg, H.A., et al., 1983
- Kordas, J.F., 1985

- see McArthur, R.D., and Kordas, J.F., 1985
- Korver, J.A., 1965
see Knox, J.B., et al., 1965
- Koskinas, G., 1976
see Weed, H.C., et al., 1976
- Kososki, B.A., 1978
see Schmoker, J.W., and Kososki, B., 1978
- Kososki, B.A., Robbins, S.L., and Schmoker, J.W., 1978, Principal facts for borehole gravity stations in test well Ue 19z, exploratory drill hole PM-1, and water well 5a, Nevada Test Site, Nye County, Nevada: U.S. Geological Survey Open-File Report 78-983.
- Kracek, F.C., 1959
see Diment, W.H., et al., 1959
- Kreamer, D.K., 1995
see Johannesson, K.H., et al., 1995
- Krier, D.J., 1984
see Ander, H.D., et al., 1984
- Krishnaswami, S., 1990
see Copenhaver, S.A., et al., 1990
- Krishnaswami, S., 1992
see Copenhaver, S.A., et al., 1992
- Krivoy, H.L., and Mears, C.E., 1969, Seismic events originating at the Atomic Energy Commission's Nevada Test Site, in *Geological Survey Research 1969*, Chapter B: U.S. Geological Survey Professional Paper 650-B, p. 117-121.
- Kroitoru, Levy, Livnat, Alex, Fenster, D.F., and Van Camp, S.G., 1991, Origin of carbonate deposits in the vicinity of Yucca Mountain, Nevada: Preliminary results of hydrochemical modeling: EOS, Transactions, American Geophysical Union, v. 72, no. 17, p. 116.
- Kromer, Richard, 1987
see Chael, E.P., et al., 1987
- Ku, T.L., 1991
see Bell, J.W., et al., 1991
- Ku, T.L., 1995
see Peterson, F.F., et al., 1995
- Kubik, P.W., Davis, S.N., and Phillips, F.M., 1990, Proposal to use Chlorine-36 for monitoring the movement of radionuclides from nuclear explosions: *Ground Water Monitoring Review*, v. 10, no. 3, p. 106-113.
- Kumar, S., 1991
see Zimmerman, R.W., et al., 1991

- Kume, Jack, 1991
see Rousseau, J.P., et al., 1991
- Kume, Jack, and Hammermeister, D.P., 1990, Geohydrologic data from test hole USW UZ-7, Yucca Mountain Area, Nye County, Nevada: U.S. Geological Survey Open-File Report 88-465.
- Kume, Jack, and Hammermeister, D.P., 1991, Geohydrologic data from drill-bit cuttings and rotary cores from test hole USW UZ-13, Yucca Mountain Area, Nye County, Nevada: U.S. Geological Survey Open-File Report 90-362.
- Kuroda, P.K., 1989
see Holloway, R.W., et al., 1989
- Kurzmack, M.A., 1991
see Rousseau, J.P., et al., 1991
- Kusubov, A.S., 1986
see Anderson, G.D., and Kusubov, A.S., 1986
- Kusubov, A.S., 1987
see Anderson, G.D., et al., 1987
- La Camera, R.J., and Westenburg, C.L., 1994, Selected ground-water data for Yucca Mountain region, southern Nevada and eastern California, through December 1992: U.S. Geological Survey Open-File Report 94-54.
- Lachenbruch, A.H., 1959
see Diment, W.H., et al., 1959
- Lachenbruch, A.H., 1982
see Sass, J.H., and Lachenbruch, A.H., 1982
- Lachenbruch, A.H., 1988
see Sass, J.H., et al., 1988
- Lachenbruch, A.H., Marshall, B.V., and Roth, E.F., 1987, Thermal measurements in Oak Springs Formation at the Nevada Test Site, southern Nevada: U.S. Geological Survey Open-File Report 87-610.
- LaComb, J.W., 1974a
see Haimson, B.C., et al., 1974a
- LaComb, J.W., 1974b
see Haimson, B.C., et al., 1974b
- Laczniak, R.J., 1991
see Sawyer, D.A., et al., 1991
- Laczniak, R.J., 1995
see Sawyer, D.A., et al., 1995
- Laczniak, R.J., 1996
see O'Hagan, M.D., and Laczniak, R.J., 1996
- Laczniak, R.J., Cole, J.C., Sawyer, D.A., and Trudeau, D.A., 1996, Hydrogeologic controls on ground-water flow

at the Nevada Test Site, Nye County, Nevada: U.S. Geological Survey Water-Resources Investigations Report 92-4109.

Lahoud, R.G., 1983

see Lobmeyer, D.H., et al., 1983

Lahoud, R.G., Lobmeyer, D.H., and Whitfield, M.S., 1984, Geohydrology of volcanic tuff penetrated by test well UE-25bNo1, Yucca Mountain, Nye County, Nevada: U.S. Geological Survey Water-Resources Investigations Report 84-4253.

Lakner, J.F., 1968

see Giardini, A.A., et al., 1968

Lambert, D.G., 1981

see Barker, T.G., et al., 1981

Lane, L.J., 1983

see Bostick, K.V., et al., 1983

Lane, L.J., 1994

see Osterkamp, W.R., et al., 1994

Langenheim, V.E., 1993

see Ponce, D.A., et al., 1993

Langenheim, V.E., Hoover, D.B., and Oliver, H.W., 1991, Geophysical characterization of mineral and energy resources at Yucca Mountain and vicinity, Nevada: U.S. Geological Survey Open-File Report 91-620.

Langenheim, V.E., Ponce, D.A., Oliver, H.W., and Sikora, R.F., 1993, Gravity and magnetic study of Yucca Wash, southwest Nevada: U.S. Geological Survey Open-File Report 93-586-A.

Langer, W.H., 1984

see Bedinger, M.S., et al., 1984

Langer, W.H., 1989

see Bedinger, M.S., et al., 1989

Langer, W.H., Moyle, W.R., Woolfenden, L.R., and Mulvihill, D.A., 1984, Maps showing ground-water levels, springs, and depth to ground water, Basin and Range Province, southern California: U.S. Geological Survey Water-Resources Investigations Report 83-4119-B, scale 1:500,000.

Langkopf, B.S., and Eshom, E.P., 1982, Site exploration for rock-mechanics field tests in the Grouse Canyon Member, Belted Range Tuff, U12g tunnel complex, NTS: Sandia National Laboratories Report SAND81-1897.

Lanphere, M.A., 1990

see Sawyer, D.A., et al., 1990

Lanphere, M.A., 1993a

see Cole, J.C., et al., 1993

Lanphere, M.A., 1993b

see Minor, S.A., et al., 1993

- Lanphere, M.A., 1994
see Sawyer, D.A., et al., 1994
- Lappin, A.R., 1979
see Thomas, R.K., and Lappin, A.R., 1979
- Lappin, A.R., 1983
see Scott, R.B., et al., 1983
- Lappin, A.R., and Nimick, F.B., 1985, Thermal properties of the Grouse Canyon Member of the Belted Range Tuff and of Tunnel Bed 5, G-tunnel, Nevada Test Site: Sandia National Laboratories Report SAND-82-2203.
- Laraway, W.H., and Houser, F.N., 1962, Outline of geology of the U12j and the U12j.01 tunnels, Nevada Test Site: U.S. Geological Survey Open-File Report [TEI-828]
- Larsen, I.L., 1987
see Lee, S.Y., et al., 1987
- Larson, D.B., 1968
see Cherry, J.T., et al., 1968
- Larson, D.B., 1993
see Goldstein, Peter, et al., 1993
- Larson, J.D., 1974a, Water-resources data collected in the Devil's Hole area, Nevada, 1972-73: U.S. Geological Survey Water-Resources Investigations Report 61-73.
- Larson, J.D., 1974b, Water-resources data collected in the Devil's Hole area, Nevada, 1973-74: U.S. Geological Survey Water-Resources Investigations Report 74-330.
- Larson, J.D., 1975, Water-resources data collected in the Devil's Hole area, Nevada, 1974-75: U.S. Geological Survey Open-File Report.
- Larson, L.T., 1982
see Bell, E.J., and Larson, L.T., 1982
- Latham, A.R., 1992
see Black, S.C., et al., 1992
- Latham, A.R., 1993
see Black, S.C., et al., 1993
- Latham, A.R., 1994
see Black, S.C., et al., 1994
- Laul, J.C., and Maiti, T.C., 1990, Natural radionuclides in groundwaters from J-13 well at the Nevada Test Site: Battelle Pacific Northwest Laboratories Report PNL-SA-17572.
- Lawrence, F.O., 1978a
see Erdal, B.R., et al., 1978a
- Lawrence, F.O., 1978b

- see Erdal, B.R., et al., 1978b
- Lawrence, F.O., 1979
see Wolfsberg, Kurt, et al., 1979
- Lay, T., 1990
see Lynnes, C.S., and Lay, T., 1990
- Leap, D.I., 1982, Testing bromide as a surrogate for tritium in tracing ground-water movement through a dolomitic aquifer [abs.]: Abstracts with Programs--Geological Society of America, v. 14, no. 7, p. 543.
- Leap, D.I., and Mai, P.A., 1985, Estimating porosity and dispersivity of a fissured dolomitic aquifer with a two-well, recirculating tracer test using simultaneous tritium and bromide labels: Abstracts with Programs--Geological Society of America, v. 17, no. 7, p. 641.
- Leary, K.D., 1990, Analysis of techniques for estimating potential recharge and shallow unsaturated zone water balance near Yucca Mountain, Nevada: University of Nevada, Reno unpublished master's thesis.
- Lee, F.T., and Nichols, T.C., Jr., 1972, Stress changes in rock from the Jorum underground nuclear explosion, September 16, 1969, Pahute Mesa, Nevada Test Site: Seismological Society of America Bulletin, v. 62, no. 2, p. 609-618.
- Lee, M.W., 1980
see Balch, A.H., et al., 1980
- Lee, S.Y., Tamura, T., and Essington, E.H., 1987a, Characteristics of radioactivity contamination of soil at the Nevada Test Site: Nuclear and Chemical Waste Management, v. 7, no. 3-4, p. 179-190.
- Lee, S.Y., Tamura, T., Larsen, I.L., and Essington, E.H., 1987b, Characteristics of radionuclide-contaminated soils from the Sedan Crater area at the Nevada Test Site: Soil Science, v. 144, no. 2, p. 113-121.
- Lee, W.H., 1967
see Dickey, D.D., et al., 1967
- Lee, W.H., 1969
see Dickey, D.D., et al., 1969
- Lee, W.W.L., 1990
see Light, W.B., et al., 1990
- Lees, A.C., 1986
see McLaughlin, K.L., et al., 1986
- Lees, A.C., 1987
see McLaughlin, K.L., et al., 1987
- Leisek, J.F., 1964, Postshot geologic investigations of the Danny Boy nuclear cratering experiment in basalt: Lawrence Livermore Laboratory Report UCRL-7803.
- Lemke, R.W., 1959
see Hansen, W.R., and Lemke, R.W., 1959

- Lemke, R.W., 1963a
see Gibbons, A.B., et al., 1963
- Lemke, R.W., 1963b
see Hansen, W.R., et al., 1963
- Leonard, M.A., and Johnson, L.R., 1984, Near surface velocity structure beneath Pahute Mesa, Nevada Test Site: EOS, Transactions, American Geophysical Union, v. 65, no. 45, p. 994.
- Leonard, M.A., and Johnson, L.R., 1987, Velocity structure of Silent Canyon Caldera, Nevada Test Site: Bulletin of the Seismological Society of America, v. 77, no. 2, p. 597-613.
- Leonard, M.A., Johnson, L.R., and McEvilly, T.V., 1987, Spatial coherence of high-frequency regional seismic phases from the Nevada Test Site: EOS, Transactions, American Geophysical Union, v. 68, no. 44, p. 1366-1367.
- Levich, R.A., 1989
see McKague, H.L., et al., 1989
- Levy, H.B., 1976
see Borg, I.Y., et al., 1976
- Levy, H.B., 1977
see Borg, I.Y., et al., 1977
- Levy, S.S., 1984
see Ander, H.D., et al., 1984
- Light, W.B., Pigford, T.H., Chambre, P.L., and Lee, W.W.L., 1990, Analytical models for C-14 transport in a partially saturated, fractured, porous media, *in* Witherspoon, P.A., Fiore, J.H., and Slemmons, D.B., chairpersons, Proceedings of the topical meeting on nuclear waste isolation in the unsaturated zone; Focus '89: American Nuclear Society, p. 271-277.
- Lilley, E.M., 1969
see Stephens, D.R., et al., 1969
- Lin, Wunan, 1978, Measuring the permeability of Eleana argillite from Area 17, Nevada Test Site, using the transient method: Lawrence Livermore Laboratory Report UCRL-52604.
- Lin, Wunan, 1985
see Daily, W.D., et al., 1985
- Lin, Wunan, 1986
see Daily, W.D., et al., 1986
- Lin, Wunan, 1987
see Daily, W.D., et al., 1987
- Lin, Wunan, and Daily, W.D., 1984, Transport properties of Topopah Spring Tuff: Lawrence Livermore National Laboratory Report UCRL-53602.
- Lin, Wunan, and Daily, W.D., 1990, Hydrological properties of Topopah Spring Tuff under a thermal gradient: Laboratory results: International Journal of Rock Mechanics and Mining Sciences and Geomechanics Abstracts, v.

27, no. 5, p. 373-385.

Lin, Wunan, Ramirez, A.L., and Watwood, D., 1991, Temperature measurements from a horizontal heater test in G-tunnel: Lawrence Livermore National Laboratory Report UCRL-JC-106693.

Lin, Wunan, and Ruddle, David, 1991, Role of steam in fracture healing of Topopah Spring Tuff sample: EOS, Transactions, American Geophysical Union, v. 72, no. 17, p. 126.

Lindstrom, F.T., 1995

see Shott, G.J., et al., 1995

Lindstrom, F.T., Barker, L.E., Cawfield, D.E., Daffern, D.D., and Dozier, B.L., 1992, Estimating the water table under the Radioactive Waste Management Site in Area 5 of the Nevada Test Site, the Dupuit-Forcheimer approximation: U.S. Dept. of Energy Report DOE/NV/10630-24.

Lindstrom, F.T., Cawfield, D.E., Donahue, M.E., Emer, D.F., Shott, G.J., 1993, A Simulation of the transport and fate of radon-222 derived from thorium-230 low-level waste in the near surface zone of the Radioactive Waste Management Site in Area 5 of the Nevada Test Site: U.S. Dept. of Energy Report DOE/NV/10630-58.

Lingle, R., 1979

see Pratt, H.R., et al., 1979

Linkenheil, D.G., 1995

see Shott, G.J., et al., 1995

Lipman, P.W., 1964, A welded-tuff dike in southern Nevada, in Geological Survey Research 1964: U.S. Geological Survey Professional Paper 501-B, p. B79-B81.

Lipman, P.W., 1965a

see Christiansen, R.L., and Lipman, P.W., 1965

Lipman, P.W., 1965b

see Christiansen, R.L., et al., 1965

Lipman, P.W., 1965c

see Noble, D.C., et al., 1965

Lipman, P.W., 1965d

see Quinlivan, W.D., and Lipman, P.W., 1965

Lipman, P.W., 1966a, Water pressures during differentiation and crystallization of some ash-flow magmas from southern Nevada: American Journal of Science, v. 264, no. 10, p. 810-826.

Lipman, P.W., 1966b

see Christiansen, R.L., and Lipman, P.W., 1966

Lipman, P.W., 1969

see Byers, F.M., Jr., et al., 1969

Lipman, P.W., 1976

see Byers, F.M., Jr., et al., 1976

- Lipman, P.W., 1977
see Christiansen, R.L., et al., 1977
- Lipman, P.W., and Christiansen, R.L., 1963, Relationships between basin-range faulting and Timber Mountain Caldera, southern Nevada [abs.]: EOS, Transactions, American Geophysical Union, v. 44, no. 1, p. 113.
- Lipman, P.W., Christiansen, R.L., and O'Connor, J.T., 1966, A compositionally zoned ash-flow sheet in southern Nevada: U.S. Geological Survey Professional Paper 524-F, P. F1-F47.
- Liu, C.K., 1989
see Holloway, R.W., et al., 1989
- Livingston, D.E., Szymanski, J.S., and Frazier, G.A., 1991, Review of geothermal indications at and near Yucca Mountain, Nevada: EOS, Transactions, American Geophysical Union, v. 72, no. 17, p. 116.
- Livnat, Alex, 1991
see Kroitoru, Levy, et al., 1991
- Lobmeyer, D.H., 1984
see Lahoud, R.G., et al., 1984
- Lobmeyer, D.H., 1993
see Luckey, R.R., et al., 1993
- Lobmeyer, D.H., Luckey, R.R., O'Brien, G.M., and Burkhardt, D.J., 1995, Water levels in continuously monitored wells in the Yucca Mountain area, Nevada, 1989: U.S. Geological Survey Open-File Report 93-98.
- Lobmeyer, D.H., Whitfield, M.S., Lahoud, R.G., and Bruchkeimer, Laura, 1983, Geohydrologic data for Test Well UE-25b Number 1, Nevada Test Site, Nye County, Nevada: U.S. Geological Survey Open-File Report 83-855.
- Locke, G.L., 1995a
see Reiner, S.R., et al., 1995
- Locke, G.L., 1995b
see Robie, L.S., et al., 1995
- Locke, G.L., in press
see Russell, G.H., and Locke, G.J., in press
- Loeltz, O.J., 1951
see Eakin, T.E., et al., 1951
- Loeltz, O.J., 1960, Source of water issuing from springs in Ash Meadows Valley, Nye County, Nevada [abs.]: Geological Society of America Bulletin, v. 71, no. 12, p. 1917-1918.
- Logan, S.E., 1982
see Wheeler, M.L., et al., 1982
- Lombardo, W.S., 1984
see French, R.H., and Lombardo, W.S., 1984
- Long, J.C.S., 1991

- see Karasaki, Kenzi, et al., 1991
- Long, J.W., 1982
see Vortman, L.J., and Long, J.W., 1982
- Long, M.P., 1991
see McKinley, P.W., et al., 1991
- Los Alamos National Laboratory, 1991, Characterization of historical infiltration in the unsaturated zone at the Nevada Test Site using chloride, bromide, and chlorine-36 as environmental tracers: Los Alamos National Laboratory Report LA-SUB-94-111.
- Loskot, C.L. and Hammermeister, D.P., 1992, Geohydrologic data for test hole USW UZ-6s, Yucca Mountain, Nye County, Nevada: U.S. Geological Survey Open-File Report 90-369.
- Louis, H., 1969
see Stephens, D.R., et al., 1969
- Luckey, R.R., 1988
see Robison, J.H., et al., 1988
- Luckey, R.R., 1993
see Ervin, E.M., et al., 1993
- Luckey, R.R., 1995
see Lobmeyer, D.H., et al., 1995
- Luckey, R.R., Lobmeyer, D.H., and Burkhardt, D.J., 1993, Water levels in continuously monitored wells in the Yucca Mountain area, Nevada, 1985-88: U.S. Geological Survey Open-File Report 91-493.
- Luft, S.J., 1964, Mafic lavas of Dome Mountain, Timber Mountain Caldera, southern Nevada, *in* Geological Survey Research 1964: U.S. Geological Survey Professional Paper 501-D, p. D14-D21.
- Luft, S.J., 1966
see Byers, F.M., Jr., et al., 1966
- Lum, P.K., and Honda, K.K., 1992, Processed seismic motion records from Little Skull Mountain, Nevada, earthquake of June 29, 1992, recorded at stations in southern Nevada: URS/John A. Blume and Associates Report JAB-10733-TM6.
- Lum, P.K., and Honda, K.K., 1993, Processed seismic motion records from Little Skull Mountain, Nevada earthquake aftershocks of July 5, 1992 and September 13, 1992, recorded at seismic stations in southern Nevada: URS/John A. Blume and Associates Report JAB-10733-TM8.
- Lyles, B.F., 1990a, Radionuclide distribution for selected wells on the NTS: Desert Research Institute Letter Report.
- Lyles, B.F., 1990b, Tritium variations in groundwater on the Nevada Test Site: Desert Research Institute Report 45086 [DOE/NV/10384-38]
- Lyles, B.F., 1990c
see Ingraham, N.L., et al., 1990

- Lyles, B.F., 1992, Report on the comparison of DRI and EPA analyses of tritium: Desert Research Institute Report.
- Lyles, B.F., 1993a, Summary of wells validated during fiscal years 1991 to 1992: Desert Research Institute Report 45107 [DOE/NV/10845-23]
- Lyles, B.F., 1993b, Tritium activities in selected wells on the Nevada Test Site: Desert Research Institute Report 45104 [DOE/NV/10845-20]
- Lyles, B.F., 1993c
see Brikowski, T.H., et al., 1993
- Lyles, B.F., 1993d
see Chapman, J.B. and Lyles, B.F., 1993
- Lyles, B.F., 1995
see Chapman, J.B., et al., 1995
- Lyles, B.F., Edkins, John, and Jacobson, R.L., 1990, Time-series analysis of ion and isotope geochemistry of selected springs of the Nevada Test Site, Nye County, Nevada: Desert Research Institute Report 45068 [DOE/NV/10384-27]
- Lyles, B.F., McKay, W.A., Chapman, J.B., and Tyler, S.W., 1991, Hydrogeologic characterization of wells HTH-1, UE18r, UE6e, and HTH-3, Nevada Test Site: Desert Research Institute Report 45087 [DOE/NV/10845-8]
- Lyles, B.F., and Mihevc, T.M., 1990a, NTS Mesa recharge study FY 1988: Letter report: Desert Research Institute Report 45075 [DOE/NV/10384-33]
- Lyles, B.F., and Mihevc, T.M., 1990b, NTS Mesa recharge study FY 1989: Letter report: Desert Research Institute Report 45076 [DOE/NV/10384-34]
- Lyles, B.F. and Mihevc, T.M., 1992, NTS groundwater recharge study, FY 1992: Data report: U.S. Dept. of Energy Report DOE/NV/10845-T4.
- Lyles, B.F., and Mihevc, T.M., 1994, Potential hydrologic characterization wells in Amargosa Valley: Desert Research Institute Report 45129 [DOE/NV/10845-50]
- Lynch, A.W., and Dosch, R.G., 1979, Interaction of radionuclides with geomedia from the Nevada Test Site: Sandia National Laboratories Report SAND-79-1019C (also U.S. Dept. of Energy Report CONF-791112-34).
- Lynch, E.J., 1963
see Davis, S.N., and Lynch, E.J., 1963
- Lynch, R.D., 1970
see Davis, L.L., and Lynch, R.D., 1970
- Lynnes, C.S., 1988, I, Seismic velocity heterogeneity in the crust and upper mantle under the Nevada Test Site; II, source processes of great intraplate earthquakes: University of Michigan unpublished Ph.D. dissertation.
- Lynnes, C.S., and Lay, T., 1990, Effects of lateral velocity heterogeneity under the Nevada Test Site on short-period P wave amplitudes and travel times: U.S. Air Force Geophysics Laboratory Report GL-TR-90-0019.
- Mabey, D.R., 1959
see Diment, W.H., et al., 1959

Mackenzie, Gordon, Jr., 1965
see Poole, F.G., et al., 1965

MacLean, S.C., Coles, D.G., and Weed, H.C., 1978, The measurement of sorption ratios for selected radionuclides on various geologic media: Lawrence Livermore National Laboratory Report UCID-17928.

Madigan, W., 1991
see Mathews, M.A., et al., 1991

Madigan, W., 1994
see Mathews, M.A., et al., 1994

Maest, A.S., 1983
see Means, J.L., et al., 1983

Magner, J.E., 1976a
see Dodge, H.W., Jr., et al., 1976

Magner, J.E., 1976b
see Ege, J.R., et al., 1976

Magner, J.E., 1980a
see Brethauer, G.E., et al., 1980

Magner, J.E., 1980b
see Ege, J.R., et al., 1980

Magner, J.E., 1980c
see Ellis, W.L., and Magner, J.E., 1980

Magner, J.E., 1982a
see Ellis, W.L., and Magner, J.E., 1982

Magner, J.E., 1982b
see Townsend, D.R., et al., 1982

Magner, J.E., 1986
see Carroll, R.D., and Magner, J.E., 1986

Magner, J.E., 1988
see Carroll, R.D., and Magner, J.E., 1988

Magner, J.E., 1990
see Hoover, D.L., and Magner, J.E., 1990

Mahan, S.A., 1992
see Peterman, Z.E., et al., 1992

Mai, P.A., 1985
see Leap, D.I., and Mai, P.A., 1985

Maiti, T.C., 1990

see Laul, J.C., and Maiti, T.C., 1990

Majer, E.L., Johnson, L.R., Karageorgi, E.K., and Peterson, J.E., 1994, High resolution seismic imaging of Rainier Mesa using surface reflection and surface to tunnel tomography: Lawrence Berkeley Laboratory Report LBL-35944.

Maki-Lopez, M.L., 1980

see Hales, A.L., and Maki-Lopez, M.L., 1980

Maldonado, Florian, 1977a, Composite postshot fracture map of Pahute Mesa, Nevada Test Site, June 1973 through March 1976: U.S. Geological Survey Report USGS-474-243 [Special Studies-95]

Maldonado, Florian, 1977b, Explosion-induced fractures of selected announced underground nuclear tests, Yucca Flat, Nevada Test Site, Nevada, January through December 1975: U.S. Geological Survey Report USGS-474-234 [NTS-239]

Maldonado, Florian, 1977c, Results from fault-monitoring stations on Pahute Mesa, Nevada Test Site, from July 1973 through December 1976: U.S. Geological Survey Report USGS-474-242 [Special Studies-94]

Maldonado, Florian, 1977d, Summary of the geology and physical properties of the Climax Stock, Nevada Test Site: U.S. Geological Survey Open-File Report 77-356.

Maldonado, Florian, 1978

see Healey, D.L., et al., 1978

Maldonado, Florian, 1981a, Geology of the Twinridge pluton area, Nevada Test Site, Nevada: U.S. Geological Survey Open-File Report 81-156.

Maldonado, Florian, 1981b

see Naeser, C.W., and Maldonado, Florian, 1981

Maldonado, Florian, 1985, Geologic map of the Jackass Flats area, Nye County, Nevada: U.S. Geological Survey Map I-1519.

Maldonado, Florian, and Hausback, B.P., 1990, Geologic map of the northeast quarter of the Bullfrog 15-minute quadrangle, Nye County, Nevada: U.S. Geological Survey Miscellaneous Investigations Series I-2049.

Maldonado, Florian, and Koether, S.L., 1983, Stratigraphy, structure, and some petrographic features of Tertiary volcanic rocks at the USW G-2 drill hole, Yucca Mountain, Nye County, Nevada: U.S. Geological Survey Open-File Report 83-732.

Maldonado, Florian, Muller, D.C., and Morrison, J.N., 1979a, Preliminary geologic and geophysical data of the UE25a-3 exploratory drill hole, Nevada Test Site, Nevada: U.S. Geological Survey Report USGS-1543-6.

Maldonado, Florian, Steele, S.G., and Townsend, D.R., 1979b, Supplementary lithologic logs of selected vertical drill holes in Area 12, Nevada Test Site: U.S. Geological Survey Report USGS-474-261.

Malmberg, G.T., and Eakin, T.E., 1962, Ground-water appraisal of Sarcobatus Flat and Oasis Valley, Nye and Esmeralda counties, Nevada: Nevada Dept. of Conservation and Natural Resources Ground-Water Resources Reconnaissance Series Report 10.

Malmberg, G.T., and Eakin, T.E., 1964, Relation of fluoride content to recharge and movement of ground water in Oasis Valley, southern Nevada: U.S. Geological Survey Professional Paper 475-D, p. 189-191.

- Manger, G.E., 1959
see Diment, W.H., et al., 1959
- Manger, G.E., 1965, The best value of porosity of lapilli tuff from the Nevada Test Site, *in* Geological Survey Research 1965: U.S. Geological Survey Professional Paper 525-B, p. B146-B150.
- Manger, W.L., 1992
see Titus, A.L., and Manger, W.L., 1992
- Manger, W.L., 1995
see Titus, A.L., et al., 1995
- Mansker, W.L., 1983
see Connolly, J.R., et al., 1983
- Mansker, W.L., 1984
see Connolly, J.R., et al., 1984
- Mao, N.H., 1983, Kriging of geological and physical parameters from Yucca Flat, NTS: Lawrence Livermore National Laboratory Report UCID-19880.
- Mao, N.H., 1985, Interpreting geological structure using kriging: Lawrence Livermore National Laboratory Report UCRL-92423.
- Mao, N.H., 1987, Basement structure of Yucca Flat from well, gravity, and seismic data: Lawrence Livermore National Laboratory Report UCID-21091.
- Marine, I.W., 1983
see Mercer, J.W., et al., 1983
- Marsh, B.D., and Resmini, R.G., 1992, Longevity of magma in the near subsurface: a study using crystal sizes in lavas, *in* High level radioactive waste management: proceedings of the third international conference, Las Vegas, Nev., April 12-16, 1992, v. 3: American Nuclear Society, p. 2025-2032.
- Marsh, K.V., 1989
see Buddemeier, R.W., et al., 1989
- Marsh, K.V., 1991a, Hydrology and Radionuclide Migration Program 1987 Progress Report. Lawrence Livermore National Laboratory Report UCRL-53779-87.
- Marsh, K.V., 1991b
see Buddemeier, R.W., et al., 1991
- Marsh, K.V., 1992a, Hydrology and Radionuclide Migration Program 1988 Progress Report: Lawrence Livermore National Laboratory Report UCRL-53779-88.
- Marsh, K.V., 1992b, Hydrology and Radionuclide Migration Program 1989 Progress Report: Lawrence Livermore National Laboratory Report UCRL-53779-89.
- Marshall, B.D., 1992
see Peterman, Z.E., et al., 1992

Marshall, B.D., Peterman, Z.E., and Stuckless, J.S., 1993, Strontium isotopic evidence for a higher water table at Yucca Mountain, *in* High level radioactive waste management: Proceedings of the fourth international conference, Las Vegas, Nev., April 26-30, 1993: American Nuclear Society, p.1948-1952.

Marshall, B.V., 1987
see Lachenbruch, A.H., et al., 1987

Martin, Susan, 1990
see Buchholtz-ten Brink, Marilyn, et al., 1990

Martin, Susan, 1993
see Buchholtz-ten Brink, Marilyn, et al., 1993

Marvin, R.F., 1962
see Byers, F.M., Jr., et al., 1969

Marvin, R.F., Byers, F.M., Jr., Mehnert, H.H., Orkild, P.P., and Stern, T.W., 1970, Radiometric ages and stratigraphic sequence of volcanic and plutonic rocks, southern Nye and western Lincoln counties, Nevada: Geological Society of America Bulletin, v. 81, no. 9, p. 2657-2676.

Mason, J.L., 1986
see Thomas, J.M., et al., 1986

Masso, J.F., 1981
see Minster, J.B., et al., 1981

Mathews, M.A., Hahn, K., Thompson, J.L., Gadenken, L., and Madigan, W., 1991, Dalhart post shot investigation, *in* Killeen, P.G., prefacer, Borehole geophysics for minerals, geotechnical and groundwater applications, v. 4, p. 47-62.

Mathews, M.A., Hahn, K., Thompson, J.L., Gadenken, L., and Madigan, W., 1994, Subsurface radionuclide investigation of a nuclear test: Journal of Applied Geophysics, v. 32, no. 2-3, p. 279-291.

Matthusen, A.C., 1989
see McKague, H.L., et al., 1989

Mattson, S.R., 1989
see McKague, H.L., et al., 1989

Mattson, S.R., Broxton, D.E., Crowe, B.M., Buono, Anthony, and Orkild, P.P., 1989, Geology and hydrogeology of the proposed nuclear waste repository at Yucca Mountain, Nevada, and surrounding area, *in* Vineyard, J.D., and Wedge, W.K., comps., Geological Society of America 1989 field trip guidebook: Missouri Division of Geology and Land Survey Special Publication 5, p. 9-44.

Matuska, N.A., 1989, The relationship of the Yucca Mountain repository block to the regional ground-water system: a geochemical model: University of Nevada, Las Vegas unpublished master's thesis.

Maxey, G.B., 1951
see Eakin, T.E., et al., 1951

Maxey, G.B., 1974
see Naff, R.L., et al., 1974

Maxey, G.B., and Farvolden, R.N., 1965, Hydrogeological factors in problems of contamination in arid lands: *Ground Water*, v. 3, no. 4, p. 29-32.

Maxey, G.B., and Fenske, P.R., 1974, Hydrology of Nevada Test Site and Dribble test site, Mississippi, *in* Desert Research Institute, Annual report 1973-1974: U.S. Energy Research and Development Administration Report TID-26872.

Maxwell, D.E., and Denny, M.D., 1990, NTS seismic yield experiment: Computer simulations of freefield ground motion: *Seismological Research Letters*, v. 61, no. 1, p. 11.

Mayeda, K.M., 1993, Stable source size estimation for earthquakes and explosions using Lg coda energy envelopes: *Seismological Research Letters*, v. 64, no. 1, p. 37.

Mayeda, K.M., Walter, W.R., and Patton, H.J., 1993, Spectral discrimination of earthquakes and explosions in the Basin and Range: a reinvestigation using coda waves: *EOS, Transactions, American Geophysical Union*, v. 74, no. 43; Suppl. p. 447.

McArthur, R.D., 1964

see Boardman, C.R., Rabb, D.D., and McArthur, R.D., 1964

McArthur, R.D., 1976, Subsurface geology of the Lawrence Livermore Laboratory portion of Area 4 at the Nevada Test Site: Lawrence Livermore Laboratory Report UCRL-52061.

McArthur, R.D., 1977

see Ramspott, L.D., and McArthur, R.D., 1977

McArthur, R.D., 1985

see Burkhard, N.R., and McArthur, R.D., 1985

McArthur, R.D., 1991, Radionuclides in surface soil at the Nevada Test Site: Desert Research Institute Report 45077 [DOE/NV/10845-02]

McArthur, R.D., and Burkhard, N.R., 1986, Geological and geophysical investigations of Mid Valley: Lawrence Livermore National Laboratory Report UCID-20740.

McArthur, R.D., and Kordas, J.F., 1985, Nevada Test Site Radionuclide Inventory and Distribution Program: Report #2, Areas 2 and 4: Desert Research Institute Report 45041 [DOE/NVO/10162-20]

McArthur, R.D., and Mead, S.W., 1987, Nevada Test Site Radionuclide Inventory and Distribution Program: Report #3, Areas 3,7,8,9 and 10: Desert Research Institute Report 45056 [DOE/NV/10384-15]

McArthur, R.D., and Mead, S.W., 1988, Nevada Test Site Radionuclide Inventory and Distribution Program: Report #4, Areas 18 and 20: Desert Research Institute Report 45063 [DOE/NV/10384-22]

McArthur, R.D., and Mead, S.W., 1989, Nevada Test Site Radionuclide Inventory and Distribution Program: Report #5: Desert Research Institute Report 45067 [DOE/NV/10384-26]

McCall, R.L., in preparation

see Drellack, S.L., Jr., et al., in preparation

McClary, D.R., 1995

see Clary, S.L., et al., 1995

- McCoy, W., 1995
see Quade, J.G., et al., 1995
- McDonald, Tim, 1987
see Chael, E.P., et al., 1987
- McDowell, E.M., 1990
see Wruble, D.T., and McDowell, E.M., 1990
- McDowell, E.M., and Black, S.C., 1991, U.S. Department of Energy Nevada Operations Office annual site environmental report--1990: U.S. Dept. of Energy Report DOE/NV/10630-20.
- McDowell, F.W., 1988
see Warren, R.G., et al., 1988
- McDowell-Boyer, L.M., 1995
see Shott, G.J., et al., 1995
- McEvelly, T.V., 1974
see Peppin, W.A., and McEvelly, T.V., 1974
- McEvelly, T.V., 1981
see Chun, K.-Y., and McEvelly, T.V., 1981
- McEvelly, T.V., 1987
see Leonard, M.A., et al., 1987
- McEvelly, T.V., 1990a
see Daley, T.M., and McEvelly, T.V., 1990
- McEvelly, T.V., 1990b
see Daley, T.M., et al., 1990
- McFadden, L.D., 1988
see Wells, S.G., et al., 1988
- McFadden, L.D., 1990
see Wells, S.G., et al., 1990
- McFadden, L.D., 1991
see Wells, S.G., et al., 1991
- McKague, H.L., 1975
see Hannon, W.J., and McKague, H.L., 1975
- McKague, H.L., 1976
see Knowlton, G.D., and McKague, H.L., 1976
- McKague, H.L., 1980, Summary of measured medium properties of Paleozoic rocks at the DOE Nevada Test Site: Lawrence Livermore Laboratory Report UCRL-52884.
- McKague, H.L., 1981

- see Moncure, G.K., et al., 1981
- McKague, H.L., 1983, Subsurface scarps on the Paleozoic surface at the Nevada Test Site--faults or topography, *in* Proceedings of the second symposium on containment of underground nuclear explosions, August 2-4, 1983, v. 1: NTIS Report CONF-830882, p. 175.
- McKague, H.L., 1984
see Springer, J.E., et al., 1984
- McKague, H.L., 1985
see Elwood, Rebecca, et al., 1985
- McKague, H.L., 1992a
see Gillson, R.G., et al., 1992
- McKague, H.L., 1992b
see Pawloski, G.A., et al., 1992
- McKague, H.L., Grothaus, B.T., and Howard, N.W., 1979, Recognition of faults in Tertiary-Quaternary alluvium in northern Yucca Flat, Nevada: Abstracts with Programs--Geological Society of America, v. 11, no. 3, p. 91.
- McKague, H.L., Kansa, E., and Kasameyer, P.W., 1992, Detecting and modeling persistent self-potential anomalies from underground nuclear explosions at the Nevada Test Site: Lawrence Livermore National Laboratory Report UCRL-JC-107073.
- McKague, H.L., and Orkild, P.P., 1984, Geologic framework of Nevada Test Site: Abstracts with Programs--Geological Society of America, v. 16, no. 6, p. 589.
- McKague, H.L., Orkild, P.P., Mattson, S.R., Byers, F.M., Crowe, B.M., Davidson, E.D., Dockery, H.A., Grant, T.A., Hardin, E.L., Levich, R.A., Matthusen, A.C., Murray, R.C., Perry, H.A., and Sinks, D., 1989, Environmental, engineering, and urban geology in the United States, v. 2: The geology of the Nevada Test Site and surrounding area: American Geophysical Union (also Lawrence Livermore National Laboratory Report UCRL-100099).
- McKay, E.J., 1965
see Hinrichs, E.N., and McKay, E.J., 1965
- McKay, E.J., 1967
see Colton, R.B. and McKay, E.J., 1967
- McKay, E.J., 1970
see Sargent, K.A., et al., 1970
- McKay, E.J., and Wilhams, W.P., 1964, Geology of the Jackass Flats quadrangle, Nye County, Nevada: U.S. Geological Survey Geologic Quadrangle Map GQ-368, scale 1:24,000 [TEI-843]
- McKay, W.A., 1986
see Tyler, S.W., et al., 1986
- McKay, W.A., 1991
see Lyles, B.F., et al., 1991

- McKay, W.A., 1992
see Tyler, S.W., et al., 1992
- McKee, E.H., and Bergquist, J.R., 1993, New radiometric ages related to alteration and mineralization in the vicinity of Yucca Mountain, Nye County, Nevada: U.S. Geological Survey Open-File Report 93-538.
- McKeown, F.A., 1959
see Diment, W.H., et al., 1959
- McKeown, F.A., 1960a
see Dickey, D.D., and McKeown, F.A., 1960
- McKeown, F.A., 1960b
see Wilmarth, V.R., and McKeown, F.A., 1960
- McKeown, F.A., 1961
see Gibbons, A.B., et al., 1961
- McKeown, F.A., 1962a
see Emerick, W.L., et al., 1962
- McKeown, F.A., 1962b
see Poole, F.G., and McKeown, F.A., 1962
- McKeown, F.A., 1962c
see Wilmarth, V.R., et al., 1962
- McKeown, F.A., 1967
see Dickey, D.D., et al., 1967
- McKeown, F.A., 1969a
see Christiansen, R.L., et al., 1969
- McKeown, F.A., 1969b
see Dickey, D.D., et al., 1969
- McKeown, F.A., 1969c
see Hamilton, R.M., et al., 1969
- McKeown, F.A., 1970
see Bucknam, R.C., et al., 1970
- McKeown, F.A., 1975, Relation of geologic structure to seismicity at Pahute Mesa, Nevada Test Site: Seismological Society of America Bulletin, v. 65, no. 3, p. 747-764.
- McKeown, F.A., 1976
see Rogers, A.M., et al., 1976
- McKeown, F.A., 1977
see Rogers, A.M., et al., 1977
- McKeown, F.A., and Dickey, D.D., 1960, Some relations between geology and effects of underground nuclear

explosions at Nevada Test Site, Nye County, Nevada, in Geological Survey Research 1960: U.S. Geological Survey Professional Paper 400-B, p. B415-B418.

McKeown, F.A., and Dickey, D.D., 1961, Interim report on geologic investigations of the U12e tunnel system, Nevada Test Site, Nye County, Nevada: U.S. Geological Survey Open-File Report [TEI-772]

McKeown, F.A., Healey, D.L., and Miller, C.H., 1976, Geologic map of the Yucca Lake quadrangle, Nye County, Nevada, with inferred surface and structure of buried pre-Cenozoic rocks: U.S. Geological Survey Geologic Quadrangle map GO-1327, scale 1:24,000.

McKeown, F.A., Houser, F.N., Dickey, D.D., Poole, F.G., Stewart, S.W., and Clebsch, Alfred, Jr., 1959, Preliminary report on the geologic effects of Logan underground test, U12e.02 tunnel Rainier Mesa, Nye County, Nevada: U.S. Geological Survey Open-File Report [TEM-986]

McKeown, F.A., and Wilmarth, V.R., 1959, Geology of the Marble exploration hole 4, Nevada Test Site, Nye County, Nevada: U.S. Geological Survey Open-File Report [TEM-1036]

McKinley, P.W., 1985

see Benson, L.V., and McKinley, P.W., 1985

McKinley, P.W., Long, M.P., and Benson, L.V., 1991, Chemical analysis of water from selected wells and springs in the Yucca Mountain area, Nevada and southeastern California: U.S. Geological Survey Open-File Report 90-355.

McKinnis, W.B., 1987

see Anderson, G.D., et al., 1987

McKinnis, W.B., 1992

see Pawloski, G.A., et al., 1992

McKinnis, W.B., 1994

see Kao, C.S., et al., 1994

McLaughlin, K.L., 1985

see Anderson, L.M., and McLaughlin, K.L., 1985

McLaughlin, K.L., Anderson, L.M., and Lees, A.C., 1986, Effects of local geologic structure for Yucca Flat, NTS, explosion waveforms: 2-dimensional linear finite difference simulations: U.S. Air Force Geophysics Laboratory Report AFGL-TR-86-0220.

McLaughlin, K.L., Anderson, L.M., and Lees, A.C., 1987, Effects of local geologic structure on Yucca Flat, Nevada Test Site, explosion waveforms; two-dimensional linear finite-difference simulations: Bulletin of the Seismological Society of America, v. 77, no. 4, p. 1211-1222.

McLaughlin, K.L., and Johnson, L.R., 1980, Near field broadband accelerometer array studies of NTS explosions: EOS, Transactions, American Geophysical Union, v. 61, no. 46, p. 1052.

McMasters, C.R., 1987

see Yount, J.C., et al., 1987

McMechan, G.A., 1984

see Wen, J., and McMechan, G.A., 1984

- Mead, S.W., 1987
see McArthur, R.D., and Mead, S.W., 1987
- Mead, S.W., 1988
see McArthur, R.D., and Mead, S.W., 1988
- Mead, S.W., 1989
see McArthur, R.D., and Mead, S.W., 1989
- Means, J.L., Maest, A.S., and Crear, D.A., 1983, Organic geochemistry of deep ground waters and radionuclide-partitioning experiments under hydrothermal conditions: Battelle Columbus Laboratories Report ONWI-448.
- Mears, C.E., 1969
see Krivoy, H.L., and Mears, C.E., 1969
- Meeks, L.K., 1995
see Titus, A.L., et al., 1995
- Mehnert, H.H., 1968
see Noble, D.C., et al., 1968
- Mehnert, H.H., 1970
see Marvin, R.F., et al., 1970
- Mellman, G.R., and Hart, R.S., 1982, Effects of shallow structure at NTS on body wave propagation: EOS, Transactions, American Geophysical Union, v. 63, no. 18, p. 372.
- Menges, C.M., 1994
see Pezzopane, S.K., et al., 1994
- Mensing, R.W., 1991
see Garcia, A.A., et al., 1991
- Mercer, J.W., Rao, P.S.C., and Marine, I.W., eds., 1983, Role of the unsaturated zone in radioactive and hazardous waste disposal: Ann Arbor Science Publishers.
- Meremonte, M.E., 1987
see Rogers, A.M., et al., 1987
- Meremonte, M.E., 1992
see Cranswick, Edward, et al., 1992
- Meremonte, M.E., Cranswick, Edward, Gomborg, J.S., Worley, D.M., Carver, D.L., Brooks, J., Banfill, Robert, Overturf, D.E., and Bice, T., 1993, Report on seismologic field investigations of the 29 June 1992 Little Skull Mountain earthquake: U.S. Geological Survey Open-File Report 93-555.
- Metcalf, L.M., 1983, A preliminary review and summary of the potential for tectonic, seismic, and volcanic activity at the Nevada Test Site defense waste disposal site: Desert Research Institute Report 45029 [DOE/NVO/10162-7]
- Meyer, G.L., 1966
see Boardman, C.R., et al., 1966

Meyer, G.L., 1982

see Doyle, A.C., and Meyer, G.L., 1982

Meyer, G.L., and Smith, R.E., n.d., Summary of hydraulic data, quality of water, and lithologic log for Army Well 1, Mercury Valley, Nye County, Nevada: U.S. Geological Survey Technical Letter NTS-71.

Meyer, G.L., and Thordarson, William, 1963, Hydrology of the Pahute Mesa exploratory hole, Nye County, Nevada: U.S. Geological Survey Technical Letter Special Studies-I-4.

Meyer, G.L., and Young, R.A., 1962, Summary of hydraulic data and abridged log for ground-water test well 3, Frenchman Flat, Nevada Test Site, Nevada: U.S. Geological Survey Technical Letter NTS-30.

Michael, J.A., 1984

see Brockman, S.R., et al., 1984

Michelini, A., 1990

see Daley, T.M., et al., 1990

Mifflin, M.D., 1995

see Quade, J.G., et al., 1995

Mihevc, T.M., 1988, Yucca Flat Hydrology, Fiscal Year 1989: Desert Research Institute Letter Report.

Mihevc, T.M., 1990a, Yucca Flat Hydrology, Fiscal Year 1989: Desert Research Institute Letter Report.

Mihevc, T.M., 1990b

see Hawkins, W.L., et al., 1990

Mihevc, T.M., 1990c

see Lyles, B.F., and Mihevc, T.M., 1990

Mihevc, T.M., 1992a, Yucca Flat hydrology, fiscal year 1990: Desert Research Institute Letter Report.

Mihevc, T.M., 1992b

see Lyles, B.F., and Mihevc, T.M., 1992

Mihevc, T.M., 1992c

see Tyler, S.W., et al., 1992

Mihevc, T.M., 1994

see Lyles, B.F., and Mihevc, T.M., 1994

Miller, C.H., 1963

see Healey, D.L., and Miller, C.H., 1963

Miller, C.H., 1966a

see Byers, F.M., Jr., and Miller, C.H., 1966

Miller, C.H., 1966b

see Healey, D.L., and Miller, C.H., 1966

Miller, C.H., 1971

see Healey, D.L., and Miller, C.H., 1971

Miller, C.H., 1975

see Carr, W.J., et al., 1975

Miller, C.H., 1976a, A method for stress determination in N, E, and T tunnels, Nevada Test Site, by hydraulic fracturing, with a comparison of overcoming methods: U.S. Geological Survey Report USGS-474-222 [Area 12-43]

Miller, C.H., 1976b

see McKeown, F.A., et al., 1976

Miller, C.H., 1979

see Healey, D.L., and Miller, C.H., 1979

Miller, C.H., 1981

see Brethauer, G.E., et al., 1981

Miller, C.H., Cunningham, D.R., and Cunningham, M.J., 1975a, An air injection technique to study intensity of fracturing around a tunnel in volcanic rocks: Association of Engineering Geologists Bulletin, v. 11, no. 3, p. 203-217.

Miller, C.H., Dixon, G.L., Carr, W.J., and Beyers, F.M., Jr., 1966, Preliminary lithologic and geophysical logs of the UE-11c exploratory hole, Frenchman Flat, Nevada Test Site: U.S. Geological Survey Technical Letter NTS-190 dated July 20, 1966.

Miller, C.H., and Healey, D.L., 1965, Gravity interpretation of Frenchman Flat and vicinity, Nevada Test Site: U.S. Geological Survey Technical Letter NTS-93.

Miller, C.H., and Healey, D.L., 1986, Gravity interpretation of Frenchman Flat and vicinity, Nevada Test Site: U.S. Geological Survey Open-File Report 86-211 [Supersedes Technical Letter NTS-93]

Miller, C.H., Healey, D.L., and Currey, F.E., 1974a, Gravity map of the northern Nellis Air Force Bombing and Gunnery Range, Nevada: U.S. Geological Survey Geophysical Investigations map GP-902, scale 1:125,000.

Miller, C.H., and Miller, D.R., 1977, Orientation of explosion-induced surface fractures estimated from preexplosion fractures and in situ stress measurements: Bulletin of the Association of Engineering Geologists, v. 14, no. 1, p. 27-37.

Miller, C.H., Miller, D.R., Ellis, W.L., and Ege, J.R., 1975b, Determination of in situ stress at U12e.18 working point, Rainier Mesa, Nevada Test Site: U.S. Geological Survey Report USGS-474-217 [Area 12-42]

Miller, C.H., Miller, D.R., and Fairer, G.M., 1974b, Orientation of explosion-induced surface fractures predicted from in situ stress measurements [abs.]: Association of Engineering Geologists, Annual Meet., Program Abstracts, no. 17, p. 29-30.

Miller, D.R., 1970

see Ege, J.R., et al., 1970

Miller, D.R., 1974

see Miller, C.H., et al., 1974

Miller, D.R., 1975

see Miller, C.H., et al., 1975

- Miller, D.R., 1976a
see Dodge, H.W., Jr., et al., 1976
- Miller, D.R., 1976b
see Ege, J.R., et al., 1976
- Miller, D.R., 1977
see Miller, C.H., and Miller, D.R., 1977
- Miller, D.R., 1980
see Brethauer, G.E., et al., 1980
- Miller, G.A., 1977, Appraisal of the water resources of Death Valley, California-Nevada: U.S. Geological Survey Open-File Report 77-728.
- Miller, J.J., 1993
see Schmeltzer, J.S., et al., 1993
- Miller, J.J., 1994
see Snyder, K.E., et al., 1994
- Miller, J.J., 1995
see Snyder, K.E., et al., 1995
- Miller, J.J., and Gustafson, D.L., and Snyder, K.E., 1993, Lineaments identified in northern Frenchman Flat, Nye, Lincoln, and Clark counties, Nevada, Map Scale 1:24,000: Lockheed Environmental Systems and Technologies Co., Las Vegas, Nev.
- Miller, M., 1993
see Estrella, Rocio, et al., 1993
- Miller, M., 1994
see Albright, W., et al., 1994
- Millett, M.R., 1978
see Douglas, A.C., and Millett, M.R., 1978
- Mills, J.G., Jr., and Rose, T.P., 1991, Manganoan fayalite ($(\text{Fe}, \text{Mn})_2\text{SiO}_4$); a new occurrence in rhyolitic ash-flow tuff, southwestern Nevada: American Mineralogist, v. 76, no. 1-2, p. 288-292.
- Mindling, A.L., 1968
see Fiero, G.W., et al., 1968
- Mindling, A.L., 1972
see Bateman, R.L., et al., 1972
- Mindling, A.L., 1974
see Bateman, R.L., et al., 1974
- Minor, S.A., 1989, Paleostress investigation near Rainier Mesa, Nevada Test Site, in Olsen, C.W., and Carter, J.A., eds., Proceedings of the fifth symposium on containment of underground nuclear explosions, v. 2: NTIS Report CONF-8909163, p. 457-482.

Minor, S.A., 1990, Fault-slip analysis of Miocene deformation in an area of volcanotectonic interaction, Yucca Flat, southern Nevada [abs.]: EOS, Transactions, American Geophysical Union, v. 71, no. 43, p. 1585.

Minor, S.A., 1995

see Sawyer, D.A., et al., 1995

Minor, S.A., Sawyer, D.A., Wahl, R.R., Frizzell Jr., V.A., Schilling, S.P., Warren, R.G., Orkild, P.P., Coe, J.A., Hudson, M.R., Fleck, R.J., Lanphere, M.A., Swadley, W.C., and Cole, J.C., 1993, Preliminary geologic map of the Pahute Mesa 30' x 60' quadrangle, Nevada: U.S. Geological Survey Open-File Report 93-299, scale 1:120,000.

Minster, J.B., 1989

see Gurrola, Harold, et al., 1989

Minster, J.B., Savino, J.M., Rodi, W.L., Jordan, T.H., and Masso, J.F., 1981a, Three-dimensional velocity structure of the crust and upper mantle beneath the Nevada Test Site: U.S. Air Force Office of Scientific Research Report AFOSR-TR-82-0351.

Minster, J.B., Savino, J.M., Rodi, W.L., Masso, J.F., and Jordan, T.H., 1981b, Three-dimensional velocity structure of the crust and upper mantle beneath the Nevada Test Site: EOS, Transactions, American Geophysical Union, v. 62, no. 45, p. 972.

Moench, A.F., 1984, Double-porosity models for a fissured groundwater reservoir with fracture skin: Water Resources Research v. 20, no. 7, p. 831-846.

Moench, R.H., 1965, Structural geology of the southern part of the Amargosa Desert and vicinity- U.S. Geological Survey Report USGS-474-253 [NTS-106]

Moncure, G.K., 1980, Zeolite diagenesis below Pahute Mesa, Nevada Test Site: University of Wyoming unpublished Ph.D. dissertation.

Moncure, G.K., Surdam, R.C., and McKague, H.L., 1981, Zeolite diagenesis below Pahute Mesa, Nevada Test Site: Clays and Clay Minerals, v. 29, no. 5, p. 385-396.

Monfort, M.E., and Evans, J.R., 1982a, Teleseismic studies of the Earth's crust and upper mantle in southern Nevada: EOS, Transactions, American Geophysical Union, v. 63, no. 45, p. 1099.

Monfort, M.E., and Evans, J.R., 1982b, Three-dimensional modelling of the Nevada Test Site and vicinity from teleseismic P-wave residuals: U.S. Geological Survey Open-File Report 82-409.

Monsen, S.A., Carr, M.D., Reheis, M.C., and Orkild, P.P., 1990, Geologic map of Bare Mountain, Nye County, Nevada: U.S. Geological Survey Open-File Report 90-25, scale 1:24,000.

Montan, D.N., 1979

see Ramspott, L.D., et al., 1979

Montazer, Parviz, Weeks, E.P., Thamir, F., Hammermeister, D.P., Yard, S.N., and Hofrichter, P.B., 1988, Monitoring the vadose zone in fractured tuff: Ground Water Monitoring Review, v. 8, no. 2, p. 72-88.

Montazer, Parviz, and Wilson, W.E., 1984, Conceptual hydrologic model of flow in the unsaturated zone, Yucca Mountain, Nevada: U.S. Geological Survey Water-Resources Investigations Report 84-4345.

Moore, D.E., 1983

see Byerlee, J.D., et al., 1983

Moore, D.E., Morrow, C.A., and Byerlee, J.D., 1984a, Changes in permeability and fluid chemistry of the Topopah Spring Member of the Paintbrush Tuff (Nevada Test Site) when held in a temperature gradient: summary of results: Lawrence Livermore National Laboratory Report UCRL-15620 (also U.S. Geological Survey Open-File Report 84-273)

Moore, D.E., Morrow, C.A., and Byerlee, J.D., 1984b, Permeability and fluid chemistry studies of the Topopah Spring member of the Paintbrush tuff, Nevada Test Site; Part II: U.S. Geological Survey Open-File Report 84-848.

Moore, D.E., Morrow, C.A., and Byerlee, J.D., 1984c, Permeability and pore-fluid chemistry of the Tonopah Spring Member of the Paintbrush Tuff, Nevada Test Site; in a temperature gradient; application to nuclear waste storage, in McVay, G.L., ed., Scientific basis for nuclear waste management VII: Materials Research Society Symposia Proceedings v. 26, p. 883-890.

Moore, D.E., Morrow, C.A., and Byerlee, J., 1986, High-temperature permeability and groundwater chemistry of some Nevada Test Site tuffs: Journal of Geophysical Research, B, v. 91, no. 2, p. 2163-2171.

Moore, H.J., 1977, Nevada Test Site craters used for astronaut training: Journal of Research of the U.S. Geological Survey, v. 5, no. 6, p. 719-733.

Moore, J.E., 1961, Records of wells, test holes, and springs in the Nevada Test Site and surrounding area: U.S. Geological Survey Open-File Report [TEI-781]

Moore, J.E., 1962, Selected logs and drilling records of wells and test holes drilled at the Nevada Test Site prior to 1960: U.S. Geological Survey Open-File Report [TEI-804]

Moore, J.E., 1964

see Schoff, S.L., and Moore, J.E., 1964

Moore, J.E., 1968

see Schoff, S.L., and Moore, J.E., 1968

Moore, J.E., Doyle, A.C., Walker, G.E., and Young, R.A., 1963, Ground water test well 2, Nevada Test Site, Nye County, Nevada, with a section on Geophysical logs, by R.D. Carroll: U.S. Geological Survey Open-File Report [TEI-836]

Moore, J.E., and Garber, M.S., 1962, Ground water test well B, Nevada Test Site, Nye County, Nevada: U.S. Geological Survey Open-File Report [TEI-808]

Moos, Daniel, 1995

see Barton, C.A., et al., 1995

Morgan, D., 1992

see Schroeder, N.C., et al., 1992

Morris, C.J., 1971a

see Morris, G.A., et al., 1971

Morris, C.J., 1971b

see Snoeberger, D.F., et al., 1971

- Morris, G.A., 1971
see Snoeberger, D.F., et al., 1971
- Morris, G.A., Snoeberger, D.F., Morris, C.J., and DuVal, V.L., 1971, Field measurements of permeability of NTS alluvium in Area 10: Lawrence Livermore Laboratory Report UCID-15919.
- Morris, R.H., Carter, W.D., and Orkild, P.P., 1970, Preliminary analysis of infrared imagery, Pahute Mesa area, Nevada Test Site, NASA site 52: U.S. Geological Survey Open-File Report.
- Morrison, J.N., 1979
see Maldonado, Florian, et al, 1979
- Morrison, J.N., 1980
see Hoover, D.L., and Morrison, J.N., 1980
- Morrow, C.A., 1983
see Byerlee, J.D., et al., 1983
- Morrow, C.A., 1984
see Moore, D.E., et al., 1984
- Morrow, C.A., 1986
see Moore, D.E., et al., 1986
- Morrow, C.A., and Byerlee, J.D., 1984, Frictional sliding and fracture behavior of some Nevada Test Site tuffs, *in* Dowding, C.H., and Singh, M.M., eds., Rock mechanics in productivity and protection: proceedings of symposium on rock mechanics: Society of Mining Engineers, AIMMPE, p. 467-474 (also NTIS Report CONF-840633-18).
- Mower, T.E., Higgins, J.D., Yang, I.C., and Peters, C.A., 1993, Pore-water extraction from unsaturated tuff by triaxial and one-dimensional compression methods, Nevada Test Site, Nevada: U.S. Geological Survey Water-Resources Investigations Report 93-4144.
- Moyle, W.R., 1984a
see Bedinger, M.S., et al., 1984
- Moyle, W.R., 1984b
see Langer, W.H., et al., 1984
- Mrazek, C.P., 1979
see Barker, B.W., et al., 1979
- Mrazek, C.P., 1981
see Barker, B.W., et al., 1981
- Muhs, D.R., 1988
see Shroba, R.R., et al., 1988
- Muhs, D.R., 1991
see Stuckless, J.S., et al., 1991
- Muller, C.J., 1995
see Shott, G.J., et al., 1995

- Muller, D.C., 1973
see Carroll, R.D., and Muller, D.C., 1973
- Muller, D.C., 1979a
see Fairer, G.M., et al., 1979
- Muller, D.C., 1979b
see Maldonado, Florian, et al., 1979
- Muller, D.C., 1980a
see Balch, A.H., et al., 1980
- Muller, D.C., 1980b
see Brethauer, G.E., et al., 1980
- Muller, D.C., 1983
see Twenhofel, W.S., et al., 1983
- Muller, D.C., and Kibler, J.E., 1983, Commercial geophysical well logs from the USW G-1 drill hole, Nevada Test Site, Nevada: U.S. Geological Survey Open-File Report 83-321.
- Mulvihill, D.A., 1984
see Langer, W.H., et al., 1984
- Munroe, R.J., 1988
see Sass, J.H., et al., 1988
- Murphey, B.F., 1961, Explosion craters in desert alluvium, Paper G, *in* Proceedings of the Geophysical Laboratory--Lawrence Radiation Laboratory Cratering Symposium: Lawrence Livermore Laboratory Report UCRL-6438, pt. 1, p. G1-G13.
- Murphy, J.R., 1983
see Bennett, T.J., and Murphy, J.R., 1983
- Murphy, J.R., 1986
see Bennett, T.J., and Murphy, J.R., 1986
- Murphy, J.R., 1991, Free-field seismic observations from underground nuclear explosions, *in* Taylor, S.R., Patton, H.J., and Richards, P.G., eds., Explosion source phenomenology: Geophysical Monograph v. 65, p. 25-33.
- Murphy, J.R., and Bennett, T.J., 1981, Spectral characteristics of short period regional phases recorded from NTS explosions and earthquakes: Earthquake Notes, v. 52, no. 3, p. 22.
- Murphy, J.R., O'Donnell, A., and Barker, B.W., 1987, An analysis of the effects of tectonic release on the long-period surface waves observed from explosions at NTS: Seismological Research Letters, v. 58, no. 1, p. 18.
- Murray, R.C., 1974
see Tokarz, F.J., and Murray, R.C., 1974
- Murray, R.C., 1989
see McKague, H.L., et al., 1989

- Murray, W.A., 1980, Permeability testing of fractures in Climax Stock granite at the Nevada Test Site: Lawrence Livermore National Laboratory Report UCRL-85231.
- Murray, W.A., 1981, Geohydrology of the Climax Stock granite and surrounding rock formations, Nevada Test Site: Lawrence Livermore National Laboratory Report UCRL-53138.
- Myers, W.B., 1987, Detachment of Tertiary strata from their Paleozoic floor near Mercury, Nevada: Abstracts with Programs--Geological Society of America, v. 19, no. 7, p. 783.
- Myers, W.B., 1988, Detachment of Tertiary strata from their Paleozoic flood near Mercury, Nevada, *in* Barker, C.E., and Coury, A.B., comps., Abstracts of the U.S. Geological Survey, central region; 1988 poster review: U.S. Geological Survey Open-File Report 88-643, p. 26.
- Naeser, C.W., 1979, Dating of the Climax Stock, Nevada Test Site, *in* Geological Survey Research, 1979: U.S. Geological Survey Professional Paper 1150, p. 191.
- Naeser, C.W., and Maldonado, Florian, 1981, Fission-track dating of the Climax and Gold Meadows stocks, Nye County, Nevada, *in* Peterman, Z.E., Shorter contributions to isotope research in the western United States, 1980: U.S. Geological Survey Professional Paper-1199-E, p. 45-47 (supersedes Open-File Report 78-419).
- Naff, R.L., 1972
see Bateman, R.L., et al., 1972
- Naff, R.L., 1974
see Bateman, R.L., et al., 1974
- Naff, R.L., Maxey, G.B., and Kaufmann, R.F., 1974, Interbasin ground-water flow in southern Nevada: Nevada Bureau of Mines and Geology Report 20.
- Nagle, R.J., 1995
see Smith, D.K., et al., 1995
- Nagle, R.J., 1996
see Smith, D.K., et al., 1996
- Nakanish, K.K., Patton, H.J., Jarpe, S.P., Wethern, L.J., Bailey, C.A., Johnston, C.A., and Followill, F.E., 1993, The history and future of the Lawrence Livermore National Laboratory NTS Network (LNN): EOS, Transactions, American Geophysical Union, v. 74, no. 16; Suppl., p. 216.
- Nakata, J.K., 1988
see Hildenbrand, T.G., et al., 1988
- Narsimhan, T.N., 1993
see Wang, J.S.Y., and Narsimhan, T.N., 1993
- Nash, K.L., 1983
see Cleveland, J.M., et al., 1983
- Naumann, T.R., Feuerbach, D.L., and Smith, E.I., 1991, Structural control of Pliocene volcanism in the vicinity of the Nevada Test Site, Nevada; an example from Buckboard Mesa: Abstracts with Programs--Geological Society of America, v. 23, no. 2, p. 82.

- Navarro, Richard, 1984
see Brockman, S.R., et al., 1984
- Navarro, Richard, Wuollet, G.M., and Bradley, B.R., 1977, Catalog of seismograph stations operated in support of the ERDA Nevada Operations Office, January 1964 thru June 1976: U.S. Geological Survey Report USGS-474-182 (formerly Open-File Report 77-404)
- Navarro, Richard, Sembera, E.D., Jungblut, W.L., 1977, Catalog of seismic records obtained in support of the ERDA Nevada Operations Office, October 1963 thru June 1976: U.S. Geological Survey Report USGS-474-183 (formerly Open-File Report 77-653)
- Nellis, W.J., 1994
see Erskine, D.J., et al., 1994
- Nelson, J.W., 1976
see Weir, J.E., Jr., and Nelson, J.W., 1976
- Nelson, K.P., 1987
see Allmendinger, R.W., et al., 1987
- Nelson, P.H., Snyder, R.P., and Kibler, J.E., 1991, Fracture counts from borehole logs, *in* Gomberg, J.S., ed., U.S. Geological Survey Committee for the Advancement of Science in the Yucca Mountain Project, symposium on fractures, hydrology, and Yucca Mountain: Abstracts and summary: U.S. Geological Survey Open-File Report 91-125, p. 15.
- Nervick, K.H., 1982
see Hoover, D.B., et al., 1982
- Ng, H.S., 1982
see Wheeler, M.L., et al., 1982
- Nguyen, B.V., 1989, Surface-wave source study of the Starwort nuclear explosion at NTS of 26 April 1973: EOS, Transactions, American Geophysical Union, v. 70, no. 15, p. 393.
- Nguyen, H.D., 1995, Probabilistic modeling of moisture flow in layered vadose zone: Applications to waste site performance assessment: International Journal of Engineering Science, v. 33, no. 9, p. 1345-1355.
- Nichols, T.C., Jr., 1972
see Lee, F.T., and Nichols, T.C., Jr., 1972
- Nichols, W.D., and Akers, J.P., 1985, Water-level declines in the Amargosa Valley area, Nye County, Nevada, 1962-84: U.S. Geological Survey Water Resources Investigations Report 85-4273.
- Nimick, F.B., 1985a
see Lappin, A.R., and Nimick, F.B., 1985
- Nimick, F.B., 1985b
see Zimmerman, R.M., et al., 1985
- Nimick, K.G., 1982
see Price, R.H., et al., 1982

- Nimz, G.J., 1993
see Davisson, M.L., et al., 1993
- Nimz, G.J., 1994a
see Davisson, M.L., et al., 1994
- Nimz, G.J., 1994b
see Kenneally, J.M., et al., 1994
- Nimz, G.J., and Thompson, J.L., 1992, Underground radionuclide migration at the Nevada Test Site: Lawrence Livermore National Laboratory Report UCRL-ID-111013 (also U.S. Dept. of Energy Report DOE/NV-346)
- Nitchman, S.P., 1990, Depositional environments of the Mississippian Eleana Formation, Nevada Test Site, Nye County, Nevada: Abstracts with Programs--Geological Society of America, v. 22, no. 3, p. 73.
- Noble, D.C., 1965a, Gold Flat Member of the Thirsty Canyon Tuff: a pantellerite ash-flow sheet in southern Nevada, *in* Geological Survey Research 1965: U.S. Geological Survey Professional Paper 525-B, p. B85-B90.
- Noble, D.C., 1965b
see Christiansen, R.L., and Noble, D.C., 1965
- Noble, D.C., 1968a, Kane Springs Wash volcanic center, Lincoln County, Nevada, *in* Eckel, E.B., ed., Nevada Test Site: Geological Society of America Memoir 110, p. 109-116.
- Noble, D.C., 1968b
see Christiansen, R.L., and Noble, D.C., 1968
- Noble, D.C., 1968c
see Colton, R.B., and Noble, D.C., 1968
- Noble, D.C., 1968d
see Rogers, C.L., et al., 1968
- Noble, D.C., Kistler, R.W., Christiansen, R.L., Lipman, P.W., and Poole, F.G., 1965, Close association in space and time of alkalic, calc-alkalic, and calcic volcanism in southern Nevada [abs.]: Geological Society of America Special Paper 82, p. 143-144.
- Noble, D.C., Sargent, K.A., Mehnert, H.H., Ekren, E.B., and Byers, F.M., Jr., 1968, Silent Canyon volcanic center, Nye County, Nevada, *in* Eckel, E.B., ed., Nevada Test Site: Geological Society of America Memoir 110, p. 65-74.
- Noller, J.S., 1987
see Reheis, M.C., and Noller, J.S., 1987
- Norden, J.A.E., 1961, Tectonic leads in the coseismic-line spread of the Nevada underground nuclear detonation "Blanca": Oklahoma Geology Notes, v. 21, no. 9, p. 239-244.
- Nordyke, M.D., 1961, Nevada Test Site nuclear craters, Paper F, *in* Nordyke, M.D., ed., Proceedings of the Geophysical Laboratory--Lawrence Radiation Laboratory Cratering Symposium: Lawrence Livermore Laboratory Report UCRL-6438, pt. 1, p. F1-F14.
- Nordyke, M.D., 1962, An analysis of cratering data from desert alluvium: Journal of Geophysical Research, v. 67,

no. 5, p. 1965-1974.

Nordyke, M.D., and Williamson, M.M., 1965, The Sedan event: final report: Lawrence Livermore Laboratory Report PNE-242F.

Nork, D.M., 1984

see Case, C.M., et al., 1984

Nork, W.E., 1970

see Essington, E.H., et al., 1970

Nork, W.E., Forslow, E.J., and Essington, E.H., 1971, Radioactivity in water; central Nevada Test Site: Teledyne Isotopes Report NVO-1229-175.

Norris, A.E., 1979

see Wolfsberg, Kurt, et al., 1979

Norris, A.E., 1990, The use of chlorine isotope measurements to trace water movements at Yucca Mountain, *in* Witherspoon, P.A., Fiore, J.H., and Slemmons, D.B., chairpersons, Proceedings of the topical meeting on nuclear waste isolation in the unsaturated zone; Focus '89: American Nuclear Society, p. 400-405.

Norris, A.E., Aguilar, R.D., and Bayhurst, B.P., 1982, Geochemistry studies pertaining to the G-tunnel radionuclide migration field experiment: Los Alamos National Laboratory Report LA-9332-MS.

Norris, A.E., Wolfsberg, Kurt, Gifford, S.K., Bentle, H.W., Elmore, D., 1987, Infiltration at Yucca Mountain, Nevada, traced by ^{36}Cl : Nuclear Instruments and Methods in Physics Research, B29, p. 376-379.

Nugent, R.C., and Banks, D.C., 1965a, Preshot geologic investigations, Project SULKY, Buckboard Mesa, Nevada Test Site: U.S. Army Engineers Waterways Experiment Station, Vicksburg, Miss., Report AEWES-MISC-PAPER-3-703.

Nugent, R.C., and Banks, D.C., 1965b, Preshot investigations for Project Pre-Schooner, Buckboard Mesa, Nevada Test Site: U.S. Army Engineer Waterways Experiment Station, Vicksburg, Miss., Report AEWES-MISC-PAPER-3-783 (also U.S. Atomic Energy Commission Report PNE-505p).

Nugent, R.C., and Girucky, F.E., 1968, Project Palanquin preshot geologic and engineering properties investigations: U.S. Army Engineers Waterways Experiment Station, Vicksburg, Miss., Report AEWES-MISC-PAPER-S-68-21.

Nuttall, H.E., 1983

see Travis, B.J., et al., 1983

Nuttall, H.E., 1984

see Travis, B.J., et al., 1984

Nutli, O.W., 1983, A methodology for obtaining seismic yield estimates of underground explosions using short-period Lg waves: EOS, Transactions, American Geophysical Union, v. 64, no. 18, p. 193.

Nutli, O.W., 1986, Yield estimates of Nevada Test Site explosions obtained from seismic Lg waves: JGR, Journal of Geophysical Research, B, v. 91, no. 2, p. 2137-2151.

Oberlander, P.L., 1978, Development of a quasi three-dimensional groundwater model for a portion of the Nevada Test Site: University of Nevada, Reno unpublished master's thesis.

Oberlander, P.L., 1979, Development of a quasi three-dimensional groundwater model for a portion of the Nevada Test Site: Desert Research Institute Report 45014 [NVO/1253-14]

Obert, Leonard, 1964, In situ stresses in rock, Rainier Mesa, Nevada Test Site: U.S. Atomic Energy Commission Report WT-1869.

O'Brien, G.M., 1991, Water levels in periodically measured wells in the Yucca Mountain area, Nevada, 1989: U.S. Geological Survey Open-File Report 91-178.

O'Brien, G.M., 1992, Earthquake induced water-level fluctuations at Yucca Mountain, Nevada, April 1992: U.S. Geological Survey Open-File Report 92-137.

O'Brien, G.M., 1993, Earthquake-induced water-level fluctuations at Yucca Mountain, Nevada, June 1992: U.S. Geological Survey Open-File Report 93-73.

O'Brien, G.M., 1995
see Lobmeyer, D.H., et al., 1995

O'Brien, G.M., Tucci, Patrick, and Burkhardt, D.J., 1995, Water levels in the Yucca Mountain area, Nevada, 1992: U.S. Geological Survey Open-File Report 94-311.

O'Connor, J.T., 1963, Petrographic characteristics of some welded tuffs of the Piapi Canyon Formation, Nevada Test Site, Nevada, in Geological Survey Research 1963: U.S. Geological Survey Professional Paper 475-B, p. B52-B55.

O'Connor, J.T., 1966
see Lipman, P.W., et al., 1966

O'Donnell, A., 1987
see Murphy, J.R., et al., 1987

Odum, J.K., 1990
see Diehl, S.F., et al., 1990

Odum, J.K., 1991
see Diehl, S.F., et al., 1991

O'Hagan, M.D., 1993, Water-level map of eastern Pahute Mesa and vicinity, Nevada Test Site, Nye County Nevada, in Proceedings of the 7th symposium on containment of underground nuclear explosions, September 13-17, 1993, v.2: NTIS Report CONF-9309103, p. 431.

O'Hagan, M.D., and Laczniak, R.J., 1996, Groundwater levels beneath eastern Pahute Mesa and vicinity, Nevada Test Site, Nye County, Nevada: U.S. Geological Survey Water-Resources Investigations Report 96-4042.

Ogard, A.E., 1983
see Benson, L.V., et al., 1983

Ogard, A.E., Thompson, J.L., Rundberg, R.S., Wolfsburg, Kurt, Kubik, P.W., and Elmore, D., 1988, Migration of chlorine-36 and tritium from an underground nuclear test: Radiochimica Acta, v. 44/45, p. 213-217.

Ohl, J.P., 1970, Bibliography of published reports by U.S. Geological Survey personnel on the geology and hydrology of the Nevada Test Site, 1957-1969: U.S. Geological Survey Report USGS-474-88 [NTS-220]

Ohl, J.P., 1973, Bibliography of published reports by U.S. Geological Survey personnel on the geology and hydrology of the Central Nevada Test Area, Nye County, Nevada, 1968--First Quarter 1973: U.S. Geological Survey Report 474-165.

Ohl, J.P., 1975a, Bibliography of reports by U.S. Geological Survey personnel on the Nevada Test Site and related subjects, July 1, 1974 to June 30, 1975, with author and subject indexes: U.S. Geological Survey Report TID-26941.

Ohl, J.P., 1975b
see Dixon, G.L., et al., 1975

Ohl, J.P., 1975c
see Fernald, A.T., et al., 1975

Ohl, J.P., 1977a, Bibliography of reports by U.S. Geological Survey personnel on the Nevada Test Site and related subjects July 1, 1976, to June 30, 1977, with author and subject indexes: U.S. Geological Survey Report USGS-474-254.

Ohl, J.P., 1977b
see Quinlivan, W.D., et al., 1977

Ohl, J.P., 1978
see Hoover, D.L., et al., 1978

Ohl, J.P., 1985
see Quinlivan, W.D., et al., 1985

Oldow, J.S., 1979
see Felch, R.N., et al., 1979

Oldow, J.S., 1983
see Ander, H.D., and Oldow, J.S., 1983

O'Leary, Dennis, 1993
see Fridrich, C.J., and O'Leary, Dennis, 1993

Oliver, H.W., 1959a
see Diment, W.H., et al., 1959

Oliver, H.W., 1959b
see Wilmarth, V.R., et al., 1959

Oliver, H.W., 1960
see Wilmarth, V.R., et al., 1960

Oliver, H.W., 1981
see Snyder, D.B., and Oliver, H.W., 1981

Oliver, H.W., 1982
see Kane, M.F., et al., 1982

Oliver, H.W., 1986
see Harris, R.N., et al., 1986

- Oliver, H.W., 1987
see Healey, D.L., et al., 1987
- Oliver, H.W., 1988a
see Hildenbrand, T.G., et al., 1988
- Oliver, H.W., 1988b
see Ponce, D.A., et al., 1988
- Oliver, H.W., 1988c
see Zumberge, M.A., et al., 1988
- Oliver, H.W., 1989
see Harris, R.N., et al., 1989
- Oliver, H.W., 1991
see Langenheim, V.E., et al., 1991
- Oliver, H.W., 1993
see Langenheim, V.E., et al., 1993
- Oliver, H.W., Dixon, G.L., and Carr, W.J., 1982, Geophysical and geologic characterization of Yucca Mountain and vicinity, Nevada: EOS, Transactions, American Geophysical Union, v. 63, no. 45, p. 1099.
- Oliver, J.E., 1987
see Allmendinger, R.W., et al., 1987
- Olsen, C.W., 1970, Soil strain near a nuclear explosion: Seismological Society of America Bulletin, v. 60, no. 6, p. 1999-2014.
- Olsen, C.W., and Donohue, M.L., 1985, Proceedings of the third symposium on containment of underground nuclear explosions Held at Idaho Falls, ID on 10 September 1985, v. 2: NTIS Report CONF-850953.
- Olsen, C.W., and Price, M.E., 1991, Proceedings of the sixth symposium on containment of underground nuclear explosions, 2 vols.: NTIS Report CONF-9109114.
- Olsen, K.H., and Peratt, A.L., 1994, Free-field ground motions in the nonlinear-to-elastic transition zone for underground nuclear and chemical explosions at the Nevada Test Site: Seismological Research Letters, v. 65, no. 1, p. 72.
- Olsson, W.A., and Jones, A.K., 1980?, Rock mechanics properties of volcanic tuffs from the Nevada Test Site: Sandia National Laboratories Report SAND-80-1453.
- Olsson, W.A., and Teufel, L.W., 1980, Effects of water on the mechanical properties of intact and jointed welded tuff: EOS, Transactions, American Geophysical Union, v. 61, no. 17, p. 372.
- Olsson, W.A., and Teufel, L.W., 1981, Geoengineering properties of volcanic tuffs: Abstracts with Programs--Geological Society of America, v. 13, no. 4, p. 222.
- O'Malley, P.A., 1985
see Szabo, B.J., and O'Malley, P.A., 1985

O'Neill, J.M., Whitney, J.W., and Hudson, M.R., 1992, Photogeologic and kinematic analysis of lineaments at Yucca Mountain, Nevada: Implications for strike-slip faulting and oroclinal bending: U.S. Geological Survey Open-File Report 91-623.

O'Neill, L.J., 1993
see Ginanni, J.M., 1993

Orkild, P.P., 1961a
see Hinrichs, E.N., and Orkild, P.P., 1961

Orkild, P.P., 1961b
see Poole, F.G., et al., 1961

Orkild, P.P., 1963, Geologic map of the Tippipah Spring quadrangle, Nye County, Nevada: U.S. Geological Survey Quadrangle Map GQ-746, scale 1:24,000.

Orkild, P.P., 1964
see Byers, F.M., Jr., et al., 1964

Orkild, P.P., 1965a, Paintbrush Tuff and Timber Mountain Tuff of Nye County, Nevada, in Cohee, G.V., and West, W.S., Changes in stratigraphic nomenclature by the U.S. Geological Survey 1964: U.S. Geological Survey Bulletin 1224-A, p. A44-A51.

Orkild, P.P., 1965b
see Christiansen, R.L., et al., 1965

Orkild, P.P., 1965c
see Ekren, E.B., et al., 1965

Orkild, P.P., 1965d
see Poole, F.G., et al., 1965

Orkild, P.P., 1968a, Geologic map of the Mine Mountain quadrangle, Nye County, Nevada: U.S. Geological Survey Geologic Quadrangle Map GQ-746, scale 1:24,000.

Orkild, P.P., 1968b
see Byers, F.M., Jr., et al., 1968

Orkild, P.P., 1968c
see Ekren, E.B., et al., 1968

Orkild, P.P., 1969a
see Byers, F.M., Jr., et al., 1969

Orkild, P.P., 1969b
see Christiansen, R.L., et al., 1969

Orkild, P.P., 1970a, Report of exploration progress, Pahute Mesa, period July 31, 1966-January 31, 1968: U.S. Geological Survey Report USGS-474-63 [Special Studies-1-23-16]

Orkild, P.P., 1970b
see Hamilton, R.M., et al., 1970

- Orkild, P.P., 1970c
see Marvin, R.F., et al., 1970
- Orkild, P.P., 1970d
see Morris, R.H., et al., 1970
- Orkild, P.P., 1973
see Sargent, K.A., and Orkild, P.P., 1973
- Orkild, P.P., 1976
see Byers, F.M., Jr., et al., 1976
- Orkild, P.P., 1977
see Christiansen, R.L., et al., 1977
- Orkild, P.P., 1983a, Geology of Nevada Test Site, *in* Hudson, B.C., Jones, E.M., Keller, C.E., and Smith, C.W., compilers, Proceedings of the Monterey Containment Symposium, Monterey, Calif., Aug. 26-28, 1981: Los Alamos National Laboratory Report LA-9211-C, v. 1, p. 323-338.
- Orkild, P.P., 1983b, Summary of geologic and geophysical investigations, *in* Geologic and geophysical investigations of Climax Stock intrusive, Nevada: U.S. Geological Survey Open-File Report 83-377, p. 79-82.
- Orkild, P.P., 1983c
see Byers, F.M., Jr., et al., 1983
- Orkild, P.P., 1984a
see Ander, H.D., et al., 1984
- Orkild, P.P., 1984b
see Carr, W.J., et al., 1984
- Orkild, P.P., 1984c
see McKague, H.L., and Orkild, P.P., 1984
- Orkild, P.P., 1985a
see Dockery, H.A., et al., 1985
- Orkild, P.P., 1985b
see Warren, R.G., et al., 1985
- Orkild, P.P., 1986a
see Byers, F.M., Jr., et al., 1986
- Orkild, P.P., 1986b
see Carr, W.J., et al., 1986
- Orkild, P.P., 1988
see Warren, R.G., et al., 1988
- Orkild, P.P., 1989a
see Mattson, S.R., et al., 1989

- Orkild, P.P., 1989b
see McKague, H.L., et al., 1989
- Orkild, P.P., 1990
see Monsen, S.A., et al., 1990
- Orkild, P.P., 1993
see Minor, S.A., et al., 1993
- Orkild, P.P., Byers, F.M., Jr., Hoover, D.L., and Sargent, K.A., 1968, Subsurface geology of Silent Canyon Caldera, Nevada Test Site, Nevada, in Eckel, E.B., ed., Nevada Test Site: Geological Society of America Memoir 110, p. 77-86.
- Orkild, P.P., and Jenkins, E.C., 1970, Report of exploration progress, Pahute Mesa, period January 31, 1968 to July 1, 1969: U.S. Geological Survey Report USGS-474-70 [Special Studies-1-23-17]
- Orkild, P.P., and Jenkins, E.C., 1978, Report of exploration progress, Pahute Mesa, October 1, 1969, to December 31, 1976: U.S. Geological Survey Report USGS-474-239 [Special Studies-1-23-18]
- Orkild, P.P., and Pomeroy, J.S., 1961, Geologic reconnaissance of the Topopah Spring and Timber Mountain quadrangles, Nye County, Nevada: U.S. Geological Survey Open-File Report [TEI-757]
- Orkild, P.P., Sargent, K.A., and Snyder, R.P., 1969, Geologic map of Pahute Mesa, Nye County, Nevada: U.S. Geological Survey Miscellaneous Geologic Investigations Map I-567, scale 1:48,000.
- Orkild, P.P., Townsend, D.R., and Baldwin, M.J., 1983, Geologic investigations, in Geologic and geophysical investigations of Climax Stock intrusive, Nevada: U.S. Geological Survey Open-File Report 83-377, p. 1-24.
- Ortiz, Cynthia, 1986, Revised bibliography on radionuclide migration: Reynolds Electrical and Engineering Co. report.
- Osterkamp, W.R., Lane, L.J., and Savard, C.S., 1994, Recharge estimates using a geomorphic/distributed-parameter simulation approach, Amargosa River basin: Water Resources Bulletin, v. 30, no. 3, p. 493-507.
- Oswald, K.M., 1971, Report of information pertinent to U9ITS-U-29: Lawrence Livermore Laboratory Subject Report KMO-17-71.
- Overturf, D.E., 1993
see Meremonte, M.E., et al., 1993
- Page, W.R., 1990, Compilation of modal analyses of volcanic rocks from the Nevada Test Site area, Nye County, Nevada: U.S. Geological Survey Open-File Report 90-87.
- Paillet, F.L., 1991
see Hess, A.E., and Paillet, F.L., 1991
- Palmer, A.R., 1961
see Barnes, Harley and Palmer, A.R., 1961
- Panian, T.F., 1984
see Case, C.M., et al., 1984

- Panian, T.F., 1986, Spatial variability of hydraulic properties in an undisturbed alluvial soil: University of Nevada, Reno unpublished master's thesis.
- Panian, T.F., 1987, Unsaturated flow properties data catalog, v. 2: Desert Research Institute Report 45061.
- Pankratz, L.W., 1982a, Reconnaissance seismic refraction studies at Calico Hills, Wahmonie, and Yucca Mountain: southwest Nevada Test Site, Nye County, Nevada: U.S. Geological Survey Open-File Report 82-478.
- Pankratz, L.W., 1982b
see Hoover, D.B., et al., 1982
- Papanek, P.J., 1971
see Hamilton, R.M., et al., 1971
- Papanek, P.J., 1972a
see Fischer, F.G., et al., 1972
- Papanek, P.J., 1972b
see Hamilton, R.M., et al., 1972
- Parker, L.E., 1983
see Albright, J.N., et al., 1983
- Parrish, D.K., and Senseny, P.E., 1981, Creep of welded tuff: Abstracts with Programs--Geological Society of America, v. 13, no. 4, p. 223.
- Parsons, S.M., 1993
see Snyder, K.E., et al., 1993
- Patrick, W.C., 1981a
see Heuze, F.E., et al., 1981
- Patrick, W.C., 1981b
see Ramspott, L.D., et al., 1981
- Patrick, W.C., 1981c
see Wilder, D.G., and Patrick, W.C., 1981
- Patrick, W.C., 1984
see Ballou, L.B., et al., 1984
- Patrick, W.C., 1986a, Spent fuel test-Climax: an evaluation of the technical feasibility of geologic storage of spent nuclear fuel in granite: Executive summary of final results: Lawrence Livermore National Laboratory Report UCRL-53762.
- Patrick, W.C., 1986b, Spent fuel test-Climax: an evaluation of the technical feasibility of geologic storage of spent nuclear fuel in granite: Final report: Lawrence Livermore National Laboratory Report UCRL-53702.
- Patterson, J.F., 1980
see Butters, S.W., et al., 1980
- Patton, George, 1987

- see Chael, E.P., et al., 1987
- Patton, H.J., 1993a
see Goldstein, Peter, et al., 1993
- Patton, H.J., 1993b
see Mayeda, K., et al., 1993
- Patton, H.J., 1993c
see Nakanish, K.K., et al., 1993
- Patton, S.E., 1993d
see Shinn, J.H., et al., 1993
- Pawloski, G.A., 1981a, Resistivity measurements as a indication of clay and/or zeolite content in Tertiary volcanic tuffs and Quaternary alluvium at the Nevada Test Site: Lawrence Livermore National Laboratory Report UCRL-86805.
- Pawloski, G.A., 1981b, Water contents of samples from the NTS: total, free (natural state to 105⁰ C), and more tightly bonded (105 to 700⁰ C): Lawrence Livermore National Laboratory Report UCRL-53130.
- Pawloski, G.A., 1982, Results from exploratory drill hole UE2ce, northwest Yucca Flat, Nevada Test Site, near the Nash event: Lawrence Livermore National Laboratory Report UCID-19324.
- Pawloski, G.A., 1983, Quantitative determination of minerals in Nevada Test Site samples by X-ray diffraction: Lawrence Livermore National Laboratory Report UCRL-89414.
- Pawloski, G.A., McKague, H.L., Wagoner, J.L., and McKinnis, W.B., 1992, Preliminary guidebook for identifying stratigraphic contacts at the Nevada Test Site: Lawrence Livermore National Laboratory Report UCRL-JC-106918.
- Pearson, D.C., Edwards, C.L., Stump, B.W., Baker, D.F., and Cogbill, A.H., 1993, Range dependence and azimuthal variation of spall generated by the NTS explosion DIVIDER: EOS, Transactions, American Geophysical Union, v. 74, no. 43; Suppl., p. 449.
- Pearson, F.J., Jr., 1976
see Winograd, I.J., and Pearson, F.J., Jr., 1976
- Peppin, W.A., and McEvilly, T.V., 1974, Discrimination among small magnitude events on Nevada Test Site: Geophysical Journal (Royal Astronomic Society), v. 37, no. 2, p. 227-243.
- Peratt, A.L., 1994
see Olsen, K.H., and Peratt, A.L., 1994
- Perfect, D.L., 1994, Creation and analysis of a hydrochemical data base for the Death Valley region, Nevada and California: Colorado School of Mines unpublished master's thesis.
- Perkins, D.M., 1976
see Rogers, A.M., et al., 1976
- Perkins, D.M., 1977
see Rogers, A.M., et al., 1977

- Perkins, D.M., Thenhaus, P.C., Hanson, S.L., and Algermissen, S.T., 1986, Reconnaissance assessment of probabilistic earthquake accelerations at the Nevada Test Site: U.S. Geological Survey Open-File Report 87-199.
- Perret, W.R., 1961
see Adams, W.M., et al., 1961
- Perret, W.R., 1976, Surface motion induced by nuclear explosions beneath Pahute Mesa, Part I. Halfbreak, Greeley, Scotch, Boxcar events: Sandia National Laboratories Report SLA-74-0348.
- Perret, W.R., 1978, Surface motion near underground nuclear explosions in desert alluvium operation Nougat I, Area 3, Nevada Test Site: Sandia National Laboratories Report SAND-77-1435.
- Perry, F.V., 1994
see Ratcliff, C.D., et al., 1994
- Perry, F.V., and Crowe, B.M., 1992, Geochemical evidence for waning magmatism and polycyclic volcanism at Crater Flat, Nevada, *in* High level radioactive waste management: Proceedings of the third international conference, Las Vegas, Nev., April 12-16, 1992, v. 3: American Nuclear Society, p. 2356-2365.
- Perry, H.A., 1989
see McKague, H.L., et al., 1989
- Peselnick, L.C., 1959
see Diment, W.H., et al., 1959
- Peterman, Z.E., 1991
see Stuckless, J.S., et al., 1991
- Peterman, Z.E., 1993
see Marshall, B.D., et al., 1993
- Peterman, Z.E., Stuckless, J.S., Downey, J.S., and Gutentag, E.D., 1990, Strontium-isotope geochemistry of the Ash Meadows ground-water system in southern Nevada [abs.]: Abstracts with Programs--Geological Society of America, v. 22, no. 7, p. 295-296.
- Peterman, Z.E., Stuckless, J.S., Mahan, S.A., Marshall, B.D., Gutentag, E.D., Downey, J.S., 1992, Strontium isotope characterization of the Ash Meadows groundwater system, southern Nevada, USA: *in* Kharaka, Y.K., Maest, A.S., eds., Proceedings of the 7th international symposium on water-rock interaction-WRI-7, Park City, Utah, p. 825-829.
- Peters, C.A., 1993
see Mower, T.E., et al., 1993
- Peters, R.R., and Klavetter, E.A., 1988, A continuum model for water movement in an unsaturated fractured rock mass: Water Resources Research, v. 24, no. 3, p. 416-430.
- Peters, R.R., Klavetter, E.A., George, J.T., and Gauthier, J.H., 1987, Measuring and modeling water imbibition into tuff, *in* Evans, D.D., and Nicholson, T.J., eds., Flow and transport through unsaturated fractured rock: Geophysical Monograph v. 42, p. 99-106.
- Petersen, G.W., 1988
see Gardner, T.W., et al., 1988

Peterson, F.F., 1991.

see Bell, J.W., et al., 1991

Peterson, F.F., Bell, J.W., Dorn, R.I., Ramelli, A.R., and Ku, T.-L., 1995, Late Quaternary geomorphology and soils in Crater Flat, Yucca Mountain area, southern Nevada: Geological Society of America Bulletin, v. 107, no. 4, p. 379-395.

Peterson, J.E., 1991

see Karasaki, Kenzi, et al., 1991

Peterson, J.E., 1994

see Majer, E.L., et al., 1994

Pezzopane, S.K., Menges, C.M., and Whitney, J.W., 1994, Quaternary paleoseismology and Neogene tectonics at Yucca Mountain, Nevada, *in* Prentice, C.S., Schwartz, D.P., and Yeats, R.S., conveners, Proceedings of the workshop on paleoseismology: U.S. Geological Survey Open-File Report 94-568, p. 149-151.

Phelps, P.L., 1973

see Anspaugh, L.R., et al., 1973

Phillips, F.M., 1990

see Kubik, P.W., et al., 1990

Phillips, J.S., 1990

see Walck, M.C., and Phillips, J.S., 1990

Phillips, J.S., 1991, Analysis of component surface/downhole ground motions at Yucca Mountain for underground nuclear explosions in Pahute Mesa: Sandia National Laboratories Report SAND-87-2381.

Phinney, Douglas, 1993

see Buchholtz-ten Brink, Marilyn, et al., 1993

Pickens, M., 1985

see Howard, N.W., et al., 1985

Pigford, T.H., 1990

see Light, W.B., et al., 1990

Pistrang, M.A., 1967

see Healey, D.L., et al., 1967

Pitonzio, B.J., 1994

see Haldeman, D.L., et al., 1994

Poetzi, K.G., 1973

see Buje, C.G., et al., 1973

Pohlmann, K.F., and Andricevic, Roko, 1994, Identification of potential groundwater flow paths using geological and geophysical data: Desert Research Institute Report 45128 [DOE/NV/10845-49]

Pohlmann, K.F., Andricevic, Roko, and Vallikat, Vinod, 1993, Numerical simulation of two-dimensional groundwater transport from the Cheshire (U20N) Site, Pahute Mesa, Nevada Test Site: Desert Research Institute

Report 45113 [DOE/NV/10845-29]

Pomeroy, J.S., 1961

see Orkild, P.P., and Pomeroy, J.S., 1961

Ponce, D.A., 1981a, Gravity investigations at the proposed Wahmonie Nuclear Waste Storage Site, Nevada Test Site, Nye County, Nevada: San Jose State University unpublished master's thesis.

Ponce, D.A., 1981b, Preliminary gravity investigations of the Wahmonie Site, Nevada Test Site, Nye County, Nevada: U.S. Geological Survey Open-File Report 81-522.

Ponce, D.A., 1982

see Kane, M.F., et al., 1982

Ponce, D.A., 1983

see Jansma, P.E., et al., 1983

Ponce, D.A., 1984, Gravity and magnetic evidence for a granitic intrusion near Wahmonie site, Nevada Test Site, Nevada: Journal of Geophysical Research, B, v. 89, no. 11, p. 9401-9413.

Ponce, D.A., 1987

see Healey, D.L., et al., 1987

Ponce, D.A., 1988

see Zumberge, M.A., et al., 1988

Ponce, D.A., 1989a

see Harris, R.N., et al., 1989

Ponce, D.A., 1989b

see Kirchoff-Stein, K.S., et al., 1989

Ponce, D.A., 1993

see Langenheim, V.E., et al., 1993

Ponce, D.A., and Hanna, W.F., 1982, Preliminary appraisal of gravity and magnetic data at Syncline Ridge, western Yucca Flat, Nevada Test Site, Nye County, Nevada: U.S. Geological Survey Open-File Report 82-931.

Ponce, D.A., Harris, R.N., and Oliver, H.W., 1988, Isostatic gravity map of the Nevada Test Site and vicinity, Nevada: U.S. Geological Survey Open-File Report 88-664.

Ponce, D.A., Kohn, S.B., and Waddell, S.J., 1993, Gravity and magnetic data of Fortymile Wash, Nevada Test Site, Nevada: U.S. Geological Survey Open-File Report 92-343.

Ponce, D.A., Langenheim, V.E., and Sikora, R.F., 1993, Gravity and magnetic data of Midway Valley, southwest Nevada: U.S. Geological Survey Open-File Report 93-540-A.

Poole, F.G., 1959a

see Houser, F.N., and Poole, F.G., 1959

Poole, F.G., 1959b

see McKeown, F.A., et al., 1959

- Poole, F.G., 1960
see Houser, F.N., and Poole, F.G., 1960
- Poole, F.G., 1961a
see Byers, F.M., Jr., et al., 1961
- Poole, F.G., 1961b
see Gibbons, A.B., et al., 1961
- Poole, F.G., 1961c
see Houser, F.N., and Poole, F.G., 1961
- Poole, F.G., 1963
see Barnes, Harley, et al., 1963
- Poole, F.G., 1965a, Geologic map of the Frenchman Flat quadrangle, Nye, Lincoln, and Clark counties, Nevada: U.S. Geological Survey Quadrangle Map GQ-456, scale 1:24,000.
- Poole, F.G., 1965b
see Noble, D.C., et al., 1965
- Poole, F.G., 1968a
see Gordon, Mackenzie, Jr., and Poole, F.G., 1968
- Poole, F.G., 1968b
see Harley, Barnes, and Poole, F.G., 1968
- Poole, F.G., 1969
see Christiansen, R.L., et al., 1969
- Poole, F.G., 1984
see Ander, H.D., et al., 1984
- Poole, F.G., Houser, F.N., and Orkild, P.P., 1961, Eleana Formation of Nevada Test Site and vicinity, Nye County, Nevada, *in* Geological Survey Research 1961: U.S. Geological Survey Professional Paper 424-D, p. D104-D111.
- Poole, F.G., and McKeown, F.A., 1962, Oak Spring group of the Nevada Test Site and vicinity, Nye, Lincoln and Clark counties, Nevada, *in* Geological Survey Research 1962: U.S. Geological Survey Professional Paper 450-C, p. C60-C62.
- Poole, F.G., Orkild, P.P., Mackenzie, Gordon, Jr., and Duncan, Helen, 1965, Age of the Eleana Formation (Devonian and Mississippian) in the Nevada Test Site, *in* Cohee, G.V., and West, W.S., Changes in stratigraphic nomenclature by the U.S. Geological Survey 1964: U.S. Geological Survey Bulletin 1224-A, p. A51-A53.
- Poole, F.G., and Roller, J.C., 1960, Summary of some physical data from five vertical drill holes over the U12b.04 (Evans) explosion chamber, Nevada Test Site, Nye County, Nevada: U.S. Geological Survey Open-File Report [TEI-762]
- Potter, C.J., 1987
see Allmendinger, R.W., et al., 1987
- Pottorff, E.J., Erikson, S.J., and Campana, M.E., 1987, Hydrologic utility of borehole temperatures in Areas 19 and

20, Pahute Mesa, Nevada Test Site: Desert Research Institute Report 45060 [DOE/NV/10384-19]

Powers, P.S., and Healey, D.L., 1985, Free-air gradient observations in Yucca Flat, Nevada Test Site: U.S. Geological Survey Open-File Report 85-530.

Prather, T.L., 1965, Preliminary summary of lithologic and hydrologic data from the Ue-5f exploratory drill hole, Frenchman Flat, Nevada Test Site: U.S. Geological Survey Technical Letter NTS-133 dated July 16, 1965.

Pratt, H.R., 1973

see Swolfs, H.S., et al., 1973

Pratt, H.R., 1985

see Hardin, E.L., et al., 1985

Pratt, H.R., Hustrulid, W.H., and Simonson, R., 1978, Instrumentation program for rock mechanics and spent fuel tests at the Nevada Test Site: Lawrence Livermore National Laboratory Report UCRL-15809.

Pratt, H.R., Lingle, R., and Schrauf, T., 1979, Laboratory measured material properties of quartz monzonite, Climax Stock, Nevada Test Site: Lawrence Livermore National Laboratory Report UCRL-15073.

Pratt, W.L., 1995

see Quade, J.G., et al., 1995

Prescott, W.H., 1973

see Savage, J.C., et al., 1973

Prescott, W.H., 1974

see Savage, J.C., et al., 1974

Preston, R.G., 1961

see Adams, W.M., et al., 1961

Price, C.E., 1960, 'Granite' exploration hole, Area 15, Nevada Test Site, Nye County, Nevada-interim report, part B, hydrologic data: U.S. Geological Survey Open-File Report [TEM-836-B]

Price, C.E., 1963, Geology of underground air storage experiment chamber excavation, 401 Area, Nevada Test Site, Nye County, Nevada: Marquardt Corp. Report FE-272-2.

Price, C.E., and Thordarson, William, 1962, Ground water test well A, Nevada Test Site, Nye County, Nevada; A summary of lithologic data, aquifer tests, and construction: U.S. Geological Survey Open-File Report [TEI-800]

Price, M.E., 1991

see Olsen, C.W., and Price, M.E., 1991

Price, P.B., 1974

see Fleischer, R.L., et al., 1974

Price, R.H., 1983, Analysis of the rock mechanics properties of volcanic tuff units from Yucca Mountain, Nevada Test Site: Sandia National Laboratories Report SAND-82-1315.

Price, R.H., and Jones, A.K., 1982, Uniaxial and triaxial compression test series on Calico Hills Tuff: Sandia National Laboratories Report SAND-82-1314.

Price, R.H., Jones, A.K., and Nimick, K.G., 1982, Uniaxial compression test series on Bullfrog Tuff: Sandia National Laboratories Report SAND-82-0481.

Price, R.H., Nimick, K.G., and Zirzow J.A., 1982, Uniaxial and triaxial compressional test series on Topopah Spring Tuff: Sandia National Laboratories Report SAND-82-1723.

Priest, S.S., 1988

see Sass, J.H., et al., 1988

Prindle, R.W., 1990, On a sensitivity analysis of flow through layered, fractured tuff; implications for performance allocation and performance-assessment modeling, *in* Witherspoon, P.A., Fiore, J.H., and Slemmons, D.B., chairpersons, Proceedings of the topical meeting on nuclear waste isolation in the unsaturated zone; Focus '89: American Nuclear Society, p. 294-300.

Prudic, D.E., 1991

see Burbey, T.J., and Prudic, D.E., 1991

Prudic, D.E., Harrill, J.R., and Burbey, T.J., 1995, Conceptual evaluation of regional ground-water flow in the carbonate-rock province of the Great Basin, Nevada, Utah, and adjacent states: U.S. Geological Survey Professional Paper 1409-D.

Pruess, K., 1987

see Tsang, Y.W., and Pruess, K., 1987

Puchlik, K.P., 1974, Preliminary subsurface investigation of the depositional and structure history of the Yucca Flat Basin, Nevada Test Site [abs.]: Geological Society of America Abstracts, v. 6, no. 3, p. 238-239.

Purson, J.D., 1983, Evaluation of geochemical properties used in area-to-location screening for a nuclear waste repository at the Nevada Test Site: Los Alamos National Laboratory Report LA-9510-MS.

Pyles, D.G., 1984

see Rush, F.E., et al., 1984

Quade, J.G., 1991

see Cerling, T.E., and Quade, J.G., 1991

Quade, J.G., Mifflin, M.D., Pratt, W.L., McCoy, W., and Burckle, Lloyd, 1995, Fossil spring deposits in the southern Great Basin and their implications for changes in water-table levels near Yucca Mountain, Nevada, during Quaternary times: Geological Society of America Bulletin, v. 107, no. 2, p. 213-230.

Quade, J.G., and Tingley, J.V., 1983, Mineral inventory of the Nevada Test Site, and portions of Nellis Bombing and Gunnery Range, southern Nye County, Nevada: Final report: U.S. Dept. of Energy Report DOE/NV/10295-1.

Qualheim, B.J., 1983

see Ryerson, F.J., and Qualheim, B.J., 1983

Qualheim, B.J., 1985

see Thorpe, R.K., and Qualheim, B.J., 1985

Quinlivan, W.D., 1966

see Carr, W.J. and Quinlivan, W.D., 1966

- Quinlivan, W.D., 1968a
see Byers, F.M., Jr., et al., 1968
- Quinlivan, W.D., 1968b
see Carr, W.D. and Quinlivan, W.D., 1968
- Quinlivan, W.D., 1968c
see Ekren, E.B., et al., 1968
- Quinlivan, W.D., 1975
see Dixon, G.L., et al., 1975
- Quinlivan, W.D., 1976
see Byers, F.M., Jr., et al., 1976
- Quinlivan, W.D., and Byers, F.M., Jr., 1977, Chemical data and variation diagrams of igneous rocks from the Timber Mountain-Oasis Valley caldera complex, southern Nevada: U.S. Geological Survey Open-File Report 77-724.
- Quinlivan, W.D., and Lipman, P.W., 1965, Compositional variations in some Cenozoic ash-flow tuffs, southern Nevada [abs.]: Geological Society of America Special Paper 82, p. 342.
- Quinlivan, W.D., Ohl, J.P., and Blackmon, P.D., 1977, Lithologic logs of selected exploratory and emplacement drill holes in Areas 2 and 8, Nevada Test Site: U.S. Geological Survey Report USGS-474-227 [NTS-251]
- Quinlivan, W.D., and Rogers, C.L., 1974, Geologic map of the Tybo quadrangle, Nye County, Nevada: U.S. Geological Survey Miscellaneous Geologic Investigations Map I-821, scale 1:48,000.
- Quinlivan, W.D., Sharps, J.A., Ohl, J.P., and Blackmon, P.D., 1985, Lithologic logs of selected exploratory and emplacement drill holes in Areas 9 and 10, Nevada Test Site: U.S. Geological Survey Report USGS-474-319 [NTS-265]
- Raab, P.V., 1984
see Frischknecht, F.C., and Raab, P.V., 1984
- Rabb, D.D., 1964
see Boardman, C.R., et al., 1964
- Rabb, D.D., 1966
see Boardman, C.R., et al., 1966
- Raber, Ellen, 1981
see Isherwood, D.J., et al., 1981
- Raber, Ellen, 1982
see Isherwood, D.J., et al., 1982
- Raber, Ellen, 1990
see Harrar, J.E., et al., 1990
- Raker, S.L., 1984
see Case, C.M., et al., 1984
- Rambo, J.T., 1987

- see Anderson, G.D., et al., 1987
- Rambo, J.T., 1991
see Burkhard, N.R., and Rambo, J.T., 1991
- Rambo, J.T., and Rimer, N., 1994, Calculations of NTS residual stress measurements and some implications for models and material properties: Lawrence Livermore National Laboratory Report UCRL-JC-116445.
- Ramelli, A.R., 1991
see Bell, J.W., et al., 1991
- Ramelli, A.R., 1995
see Peterson, F.F., et al., 1995
- Ramirez, A.L., 1986
see Daily, W.D., and Ramirez, A.L., 1986
- Ramirez, A.L., 1989
see Daily, W.D., and Ramirez, A.L., 1989
- Ramirez, A.L., 1991
see Lin, Wunan, et al., 1991
- Ramspott, L.D., 1976
see Borg, I.Y., et al., 1976
- Ramspott, L.D., 1977
see Borg, I.Y., et al., 1977
- Ramspott, L.D., 1979, Climax granite test results, in Holzer, F., and Ramspott, L., eds., Proceedings of a workshop on thermomechanical modeling for a hardrock waste repository: Battelle Memorial Institute Report ONWI-98, p. 92-111.
- Ramspott, L.D., 1980, Spent fuel test project, Climax granitic stock, Nevada Test Site: Lawrence Livermore National Laboratory Report CONF-8006102-3.
- Ramspott, L.D., 1981
see Wagoner, J.L., and Ramspott, L.D., 1981
- Ramspott, L.D., 1982
see Coles, D.G. and Ramspott, L.D., 1982
- Ramspott, L.D., 1986
see Blankennagel, R., et al., 1986
- Ramspott, L.D., and Ballou, L.B., 1980, Test storage of spent reactor fuel in the Climax granite at the Nevada Test Site, in Post, R.G., ed., The state of waste disposal technology, mill tailings, and risk analysis models: Arizona Board of Regents, p. 515-529 (also Lawrence Livermore Laboratory Report UCRL-83976)
- Ramspott, L.D., Ballou, L.B., Carlson, R.C., Montan, D.N., and Butkovich, T.R., 1979a, Technical concept for test of geologic storage of spent fuel in the Climax granite, Nevada Test Site: Lawrence Livermore Laboratory Report UCID-18197.

- Ramspott, L.D., Ballou, L.B., Carlson, R.C., Montan, D.N., and Butkovich, T.R., 1979b, Technical concept for a test of geologic storage of spent reactor fuel in the Climax granite, Nevada Test Site: Lawrence Livermore Laboratory Report UCRL-52796.
- Ramspott, L.D., Ballou, L.B., and Patrick, W.C., 1981, Spent fuel test-Climax: a test of geologic storage of high-level waste in granite: Lawrence Livermore Laboratory Report UCRL-85516.
- Ramspott, L.D., and Borg, I.Y., 1977, Underground nuclear tests below the water table as waste disposal pilot plants: Abstracts with Programs--Geological Society of America, v. 9, no. 7, p. 1136.
- Ramspott, L.D., Braun, R.L., and Wadleigh, W.F., 1970, Mineral composition, CO₂ content, and grain density of drill hole samples from Yucca Flat, Nevada Test Site: Lawrence Livermore Laboratory Report UCRL-50915.
- Ramspott, L.D., and Howard, N.W., 1975, Average properties of nuclear test areas and media at the USERDA Nevada Test Site: Lawrence Livermore Laboratory Report UCRL-51948.
- Ramspott, L.D., and McArthur, R.D., 1977, Results of the exploratory drill hole Ue5n, Frenchman Flat, Nevada Test Site: Lawrence Livermore Laboratory Report UCID-17392.
- Ramspott, L.D., Tewhey, J.D., Coles, D.G., Weed, H.C., Schweiger, J.S., and Stone, R., 1979c, FY78 annual technical report of Lawrence Livermore Laboratory's participation in the DOE-NV project: Radionuclide Migration in the Ground: Lawrence Livermore National Laboratory Report UCID-18259-78.
- Rao, P.S.C., 1983
see Mercer, J.W., et al., 1983
- Rapp, E.G., 1968
see Cherry, J.T., et al., 1968
- Rasmussen, W.C., 1963, Final report--infiltration velocities at Sedan and Scooter craters-Project Sedan: U.S. Atomic Energy Commission Report PNE-221F.
- Ratcliff, C.D., Geissman, J.W., Perry, F.V., Crowe, B.M., and Zeitler, P.K., 1994, Paleomagnetic record of a geomagnetic field reversal from late Miocene mafic intrusions, southern Nevada: Science, v. 266, no. 5184, p. 412-416.
- Rawlinson, S.E., 1991
see Dozier, B. L., and Rawlinson, S.E.
- Rawlinson, S.E., 1994
see Snyder, K.E., et al., 1994
- Rawlinson, S.E., 1995
see Snyder, K.E., et al., 1995
- Rawson, D.E., 1965
see Knox, J.B., et al., 1965
- Rawson, D.E., and Borg, I.Y., 1970, Results of postshots exploration of the Greeley event: Lawrence Livermore National Laboratory Report UCRL-50979.

- Ray, J.M., 1975
see Dixon, G.L., et al., 1975
- Ray, J.M., 1981
see Edwards, C.L., et al., 1981
- Ray, J.M., 1983
see Edwards, C.L., et al., 1983
- Raybold, N.A., 1982
see Treher, E.N., and Raybold, N.A., 1982
- Rayburn, C.J., 1989
see Drellack, S.L., et al., 1989
- Rayburn, C.J., Drellack, S.L., and Thompson, P.H., 1989, Occurrence, distribution and measurement of carbonate in the alluvium of Southern Yucca Flat, Nevada Test Site, *in* Olsen, C.W., and Carter, J.A., eds., Proceedings of the fifth symposium on containment of underground nuclear explosions, Mission Research Corp., Santa Barbara, Calif., September 19-21, 1989, vol.2: NTIS Report CONF-8909163, p.186-205.
- Raymond, J.R., Eddy, P.A., Wallace, R.W., Foley, M.G., and Bierschenk, W.H., 1989, Review of information on hydrology and radionuclide migration at the Nevada Test Site 1976-1988, and annotated bibliography: Pacific Northwest Laboratory Report PNL-7101.
- Raytheon Services Nevada, 1991, Compiled and interpreted geological cross sections for Frenchman Flat for integrated site assessment and characterization (ISAAC) of Area 5--Nevada Test Site: Raytheon Services Nevada report.
- Raytheon Services Nevada, 1993a, FY 1993 bibliography for integrated site assessment and characterization (ISAAC) of Area 5--Nevada Test Site: Raytheon Services Nevada report.
- Raytheon Services Nevada, 1993b, Interim seismic progress report for the Area 5 Radioactive Waste Management Site (RWMS) Resource Conservation and Recovery Act (RCRA) Part B Permit application, Nevada Test Site (NTS), Nye County, Nevada: Raytheon Services Nevada report.
- Raytheon Services Nevada, 1994a, Interim report of trench mapping near the Area 5 Radioactive Waste Management Site, DOE/Nevada Test Site, Nye County, Nevada: Raytheon Services Nevada report.
- Raytheon Services Nevada, 1994b, Letter report: Summary of volcanic assessment at the Area 5 Radioactive Waste Management Site, DOE/Nevada Test Site, Nye County, Nevada: Raytheon Services Nevada report.
- Reasenber, Paul, 1969a
see Aki, Keiiti, et al., 1969a
- Reasenber, Paul, 1969b
see Aki, Keiiti, et al., 1969b
- Rechard, R.P., and Schuler, K.W., 1982, Permeability change near instrumentation holes in jointed rock: Implications for the tuff radionuclide-migration field experiment: Sandia National Laboratories Report SAND-81-2584.
- Reed, J.E., 1989
see Bedinger, M.S., et al., 1989

- Reed, R.L., 1983
see Craig, R.W., et al., 1983
- Reed, R.L., 1991
see Craig, R.W. and Reed, R.L., 1991
- Reed, W.E., 1970, Transport of water away from a buried heat source with special reference to hydrologic phenomena observed at Aardvark nuclear detonation: *Journal of Geophysical Research*, v. 75, no. 2, p. 415-430.
- Rees, T.F., 1983
see Cleveland, J.M., et al., 1983
- Reeves, D.R., 1995
see Clary, S.L., et al., 1995
- Rego, J.H., 1983
see Failor, R.A., et al., 1983
- Rego, J.H., 1984
see Buddemeier, R.W., et al., 1984
- Rego, J.H., 1985
see Buddemeier, R.W., and Rego, J.H., 1985
- Rego, J.H., 1986
see Silva, R.J., et al., 1986
- Rego, J.H., 1987
see Silva, R.J., et al., 1987
- Rego, J.H., 1988
see Silva, R.J., et al., 1988
- Rego, J.H., 1989
see Buddemeier, R.W., et al., 1989
- Rego, J.H., 1990
see Buchholtz-ten Brink, Marilyn, et al., 1990
- Rego, J.H., 1991
see Buddemeier, R.W., et al., 1991
- Rego, J.H., 1993
see Davisson, M.L., et al., 1993
- Rego, J.H., 1994
see Davisson, M.L., et al., 1994
- Rego, J.H., 1996
see Smith, D.K., et al., 1996
- Reheis, M.C., 1990

- see Monsen, S.A., et al., 1990
- Reheis, M.C., and Noller, J.S., 1987, New perspectives on Quaternary faulting in the southern Walker Lane, Nevada and California: U.S. Geological Survey Report CONF-8711350-2.
- Reid, R.J., 1973
see Butters, S.W., et al., 1973
- Reiman, R.T., 1980
see Barnes, M.G., et al., 1980
- Reiner, S.R., 1995
see Robie, L.S., et al., 1995
- Reiner, S.R., Locke, G.L., and Robie, L.S., 1995, Ground-water data for the Nevada Test Site and selected other areas in south-central Nevada, 1992-93: U.S. Geological Survey Open-File Report 95-160.
- Renault, C.E., 1988
see Wells, S.G., et al., 1988
- Renault, C.E., 1990
see Wells, S.G., et al., 1990
- Renault, C.E., 1991
see Wells, S.G., et al., 1991
- Repetski, J.E., 1995
see Harris, A.G., et al., 1995
- Resmini, R.G., 1992
see Marsh, B.D., and Resmini, R.G., 1992
- Reynolds Electrical and Engineering Co., 1991, Environmental monitoring plan: Nevada Test Site and support facilities. 2 vols.: U.S. Dept. of Energy Report DOE/NV/10630-28.
- Reynolds Electrical and Engineering Co., 1993a, Area 5 groundwater monitoring task, FY93 annual report, Nevada Test Site, Nye County, Nevada: Reynolds Electrical & Engineering Co. report.
- Reynolds Electrical and Engineering Co., 1993b, Event name cross index to announced United States nuclear tests, July 1945 through December 1992: U.S. Dept. of Energy Report DOE/NV-209 (Rev. 13)
- Reynolds Electrical and Engineering Co., 1993c, Hydrogeologic data for existing excavations at the Area 5 Radioactive Waste Management Site, Nevada Test Site, Nye County, Nevada: U.S. Dept. of Energy Report DOE/NV/11432-40.
- Reynolds Electrical and Engineering Co., 1993d, Hydrogeologic data for science trench boreholes at the Area 5 Radioactive Waste Management Site, Nevada Test Site, Nye County, Nevada: U.S. Dept. of Energy Report DOE/NV/11432-32.
- Reynolds Electrical and Engineering Co., 1994, Site characterization and monitoring data from Area 5 pilot wells, Nevada Test Site, Nye County, Nevada: U.S. Dept. of Energy Report DOE/NV/11432-74.

Rice, W.A., 1984, Preliminary two-dimensional regional hydrological model of the Nevada Test Site and vicinity: Pacific Northwest Laboratory Report PNL-4919 (also Sandia National Laboratories Report SAND83-7466)

Rice, W.A., and Gorelick, S.M., 1985, Geologic inference from "flow net" transmissivity determination: Three case studies: Water Resources Bulletin, v. 21, no. 6, p. 919-930.

Richards, W.D., 1964, Geologic study of the Sedan nuclear crater: Lawrence Livermore Laboratory Report PNE-240F.

Richardson, W.W., 1985
see Howard, N.W., et al., 1985

Richardson, W.W., 1986
see Wagoner, J.L., and Richardson, W.W., 1986

Richter, C.F., 1970
see Anderson, D.L., et al., 1970

Riecker, R.E., and Rooney, T.P., 1966, Shear strength and weakening of zeolitized tuffs from the Nevada Test Site, Nevada: American Mineralogist, v. 52, nos. 7-8, p. 1174-1178. (also U.S. Air Force Cambridge Research Laboratories Report AFCRL-TR-73-0037)

Rimer, N., 1994
see Rambo, J., and Rimer, N., 1994

Roach, C.H., 1959
see Diment, W.H., et al., 1959

Robbins, S.L., 1978
see Kososki, B.A., et al., 1978

Robbins, S.L., and Clutson, F.G., 1983, Principal facts and density estimates for borehole gravity stations in exploratory wells Ue7h, Ue4a1, and Ue11a at the Nevada Test Site, Nye County, Nevada: U.S. Geological Survey Open-File Report 83-244.

Robbins, S.L., Schmoker, J.W., and Hester, T.C., 1982, Principal facts and density estimates for borehole gravity stations in exploratory wells Ue4ah, Ue7j, Ue1h, Ue1q, Ue2co, and USW-H1 at the Nevada Test Site, Nye County, Nevada: U.S. Geological Survey Open-File Report 82-277.

Robertson, E.C., 1959
see Diment, W.H., et al., 1959

Robie, L.S., 1995
see Reiner, S.R., et al., 1995

Robie, L.S., Reiner, S.R., and Locke, G.L., 1995, Ground-water data for the Nevada Test Site, 1992, and for selected other areas in south-central Nevada, 1952-92: U.S. Geological Survey Open-File Report 95-284.

Robinson, B.P., 1965
see Beetem, W.A., et al., 1965

Robinson, B.P., 1971

see Thordarson, William, and Robinson, B.P., 1971

Robinson, B.P., and Beetem, W.A., 1965, Chemical data on water from supply wells, Nevada Test Site: U.S. Geological Survey Technical Letter NTS-104.

Robinson, B.P., and Beetem, W.A., 1975, Quality of water in aquifers of the Amargosa Desert and vicinity, Nevada: U.S. Geological Survey Report USGS-474-215 [NTS-123]

Robinson, B.P., Thordarson, William, and Beetem, W.A., 1967, Hydrologic and chemical data for wells, springs, and streams in central Nevada, T. 1-21 N. and R. 41-57 E.: U.S. Geological Survey Open-File Report TEI-871.

Robinson, B.P., Young, R.A., and Beetem, W.A., 1969, Water levels and spring discharges from selected wells and springs in Nevada, 1966 and 1967: U.S. Geological Survey Open-File Report.

Robinson, G.D., 1985, Structure of pre-Cenozoic rocks in the vicinity of Yucca Mountain, Nye County, Nevada--a potential nuclear-waste disposal site: U.S. Geological Survey Bulletin 1646.

Robinson, T.W., 1951

see Eakin, T.E., et al., 1951

Robinson, T.W., 1966

see Hunt, C.B., et al., 1966

Robison, J.H., 1983a

see Benson, L.V., et al., 1983

Robison, J.H., 1983b

see Bentley, C.B., et al., 1983

Robison, J.H., 1984a, Ground-water level data and preliminary potentiometric-surface maps, Yucca Mountain and vicinity, Nye County, Nevada: U.S. Geological Survey Water-Resources Investigations Report 84-4197.

Robison, J.H., 1984b

see Craig, R.W., and Robinson, J.H., 1984

Robison, J.H., 1984c

see Waddell, R.K., et al., 1984

Robison, J.H., Stephens, D.M., Luckey, R.R., and Baldwin, D.A., 1988, Water levels in periodically measured wells in the Yucca Mountain area, Nye County, Nevada, 1981-87: U.S. Geological Survey Open-File Report 88-468.

Rodi, W.L., 1978

see Bache, T.C., et al., 1978

Rodi, W.L., 1981

see Minster, J.B., et al., 1981

Rodriguez, E.A., 1987

see Yount, J.C., et al., 1987

Rodriguez, E.A., and Yount, J.C., 1988, Relation between P-wave velocity and stratigraphy of late Cenozoic deposits of southern Nevada, in Carr, M.D., and Yount, J.C., eds., Geologic and hydrologic investigations of a potential

nuclear waste disposal site at Yucca Mountain, southern Nevada: U.S. Geological Survey Bulletin 1790, p. 139-146.

Rogers, A.M., 1982

see Carr, W.J., and Rogers, A.M., 1982

Rogers, A.M., 1983

see Carr, W.J., et al., 1983

Rogers, A.M., 1984

see Carr, W.J., et al., 1984

Rogers, A.M., 1986a

see Harmsen, S.C., and Rogers, A.M., 1986

Rogers, A.M., 1986b

see Tarr, A.C., and Rogers, A.M., 1986

Rogers, A.M., 1988

see Hildenbrand, T.G., et al., 1988

Rogers, A.M., Carr, W.J., and Harmsen, S.C., 1982, Relations between observed seismic activity and structure in the southern Great Basin of Nevada and California: EOS, Transactions, American Geophysical Union, v. 63, no. 45, p. 1033.

Rogers, A.M., Harmsen, S.C., and Carr, W.J., 1981, Southern Great Basin seismological data report for 1980 and preliminary data analysis: U.S. Geological Survey Open-File Report 81-1086.

Rogers, A.M., Harmsen, S.C., and Meremonte, M.E., 1987, Evaluation of the seismicity of the southern Great Basin and its relationship to the tectonic framework of the region: U.S. Geological Survey Open-File Report 87-408.

Rogers, A.M., Perkins, D.M., and McKeown, F.A., 1976, A catalog of seismicity within 400 kilometers of the Nevada Test Site: U.S. Geological Survey Open-File Report 76-832.

Rogers, A.M., Perkins, D.M., and McKeown, F.A., 1977, A preliminary assessment of the seismic hazard of the Nevada Test Site region: Seismological Society of America Bulletin, v. 67, no. 6, p. 1587-1606.

Rogers, A.M., Wuollet, G.M., and Covington, P.A., 1977, Seismicity of the Pahute Mesa area, Nevada Test Site, 8 October 1975 to 30 June 1976: U.S. Geological Survey Report USGS-474-184.

Rogers, C.L., 1966

see Byers, F.M., Jr., et al., 1966

Rogers, C.L., 1968

see Ekren, E.B., et al., 1968

Rogers, C.L., 1974

see Quinlivan, W.D., and Rogers, C.L., 1974

Rogers, C.L., 1982

see Barnes, Harley, et al., 1982

Rogers, C.L., Ekren, E.B., Noble, D.C., and Weir, J.E., 1968, Geologic map of the northern half of Black Mountain

quadrangle, Nye County, Nevada: U.S. Geological Survey Miscellaneous Geologic Investigations Map I-545, scale 1:62,500.

Rogers, Susan, 1972

see Snyder, R.P., and Rogers, Susan, 1972

Rojstaczer, S.A., 1987, The local effects of groundwater pumpage within a fault-influenced groundwater basin, Ash Meadows, Nye County, Nevada, U.S.A.: *Journal of Hydrology*, v. 91, p. 319-337.

Rokop, D.J., 1992

see Schroeder, N.C., et al., 1992

Roller, J.C., 1959

see Diment, W.H., et al., 1959

Roller, J.C., 1960a

see Diment, W.H., et al., 1960

Roller, J.C., 1960b

see Poole, F.G., and Roller, J.C., 1960

Roller, J.C., 1961

see Diment, W.H., et al., 1961

Roller, J.C., 1966

see Gibbs, J.F., and Roller, J.C., 1966

Roller, J.C., and Black, R.A., 1961, Determination of thickness of a basalt flow by electrical resistivity method on Buckboard Mesa, Nevada Test Site, Nye County, Nevada, in *Geological Survey Research 1961: U.S. Geological Survey Professional Paper 424-C*, p. C271-C273.

Romney, E.M., 1991

see Schulz, R.K., et al., 1991

Rooney, T.P., 1966

see Riecker, R.E., and Rooney, T.P., 1966

Rosacker, L.L., 1993

see Kieft, T.L., et al., 1993

Rose, T.P., 1991

see Mills, J.G., Jr., and Rose, T.P., 1991

Rosenbaum, J.G., 1982a

see Bath, G.D., et al., 1982

Rosenbaum, J.G., 1982b

see Kane, M.F., et al., 1982

Rosenbaum, J.G., 1983

see Bath, G.D., et al., 1983

Rosenbaum, J.G., 1984

- see Scott, R.B., et al., 1984
- Rosenbaum, J.G., 1986, Paleomagnetic directional dispersion produced by plastic deformation in a thick Miocene welded tuff, southern Nevada: Implications for welding temperatures: *Journal of Geophysical Research, B, Solid Earth and Planets*, v. 91, no. 12, p. 12,817-12,834.
- Rosenbaum, J.G., 1990
see Hudson, M.R., and Rosenbaum, J.G., 1990
- Rosenbaum, J.G., and Hudson, M.R., 1990, Paleomagnetic investigation of Tertiary structural rotations at Yucca Mountain, southern Nevada, *in* Witherspoon, P.A., Fiore, J.H., and Slemmons, D.B., chairpersons, *Proceedings of the topical meeting on nuclear waste isolation in the unsaturated zone; Focus '89: American Nuclear Society*, p. 344-347.
- Rosholt, J.N., 1978
see Zielinski, R.A., and Rosholt, J.N., 1978
- Rosholt, J.N., 1984
see Swadley, W.C., et al., 1984
- Rosholt, J.N., 1988
see Shroba, R.R., et al., 1988
- Rosholt, J.N., Bush, C.A., and Carr, W.J., 1984, Uranium-trend dating and its application to Quaternary deposits in the Nevada Test Site region: *Abstracts with Programs--Geological Society of America*, v. 16, no. 6, p. 639.
- Rosholt, J.N., Bush, C.A., Carr, W.J., Hoover, D.L., Swadley, W.C., and Dooley, J.R., Jr., 1985, Uranium-trend dating of Quaternary deposits in the Nevada Test Site area, Nevada and California: *U.S. Geological Survey Open-File Report 85-540*.
- Ross, H.P., 1981
see Smith, C., et al., 1981
- Ross, R.J., Jr., 1961
see Byers, F.M., Jr., et al., 1961
- Ross, W.C., 1990, A two-dimensional simulation of tritium transport in the vadose zone at the Nevada Test Site: *University of Nevada, Reno unpublished master's thesis*.
- Ross, W.C., and Wheatcraft, S.W., 1994, A two-dimensional simulation of tritium transport in the vadose zone at the Nevada Test Site: *Desert Research Institute Report 45098 [DOE/NV/10162-21]*
- Roth, B.G., 1993
see Goldstein, Peter, et al., 1993
- Roth, E.F., 1959
see Diment, W.H., et al., 1959
- Roth, E.F., 1987
see Lachenbruch, A.H., et al., 1987
- Rothermich, N.E., and Vollmer, A.T., 1986, Analysis of soils from the Area 5 Radioactive Waste Management Site:

a comparison of 1979 and 1984 data: Reynolds Electrical and Engineering Co. Report RWM-8.

Rousseau, J.P., Thordarson, William, Kume, Jack, and Kurzmack, M.A., 1991, Thermodynamic processes of liquid and vapor movement in Rainier Mesa, G-tunnel underground facility, Nevada Test Site, Nevada: Abstracts with Programs--Geological Society of America, v. 23, no. 5, p. 120.

Royval, J.L., 1996

see Smith, D.K., et al., 1996

Rubin, Meyer, 1969

see Grove, D.B., et al., 1969

Ruddle, David, 1991

see Lin, Wunan, and Ruddle, David, 1991

Ruggieri, M.R., 1984

see Buddemeier, R.W., et al., 1984

Ruggieri, M.R., 1989

see Buddemeier, R.W., et al., 1989

Ruggieri, M.R., 1991

see Buddemeier, R.W., et al., 1991

Rundberg, R.S., 1982

see Daniels, W.R., et al., 1982

Rundberg, R.S., 1983a

see Travis, B.J., et al., 1983

Rundberg, R.S., 1983b

see Hoffman, D.C., et al., 1983

Rundberg, R.S., 1984

see Travis, B.J., et al., 1984

Rundberg, R.S., 1988

see Ogard, A.E., et al., 1988

Rush, F.E., 1968, Index of hydrographic areas in Nevada: Nevada Division of Water Resources Information Report 6.

Rush, F.E., 1970, Regional ground-water systems in the Nevada Test Site area, Nye, Lincoln, and Clark counties, Nevada: Nevada Dept. of Conservation and Natural Resources Water Resources Reconnaissance Series Report 54.

Rush, F.E., 1984a

see Doty, G.C., and Rush, F.E., 1984

Rush, F.E., 1984b

see Thordarson, William, et al., 1984

Rush, F.E., 1985

- see Thordarson, William, et al., 1985
- Rush, F.E., and Everett, D.E., 1966, Water-resources appraisal of Little Fish Lake, Hot Creek, and Little Smoky valleys, Nevada: Nevada Dept. of Conservation and Natural Resources Reconnaissance Series Report 38.
- Rush, F.E., Thordarson, William, and Bruchkeimer, Laura, 1983, Geohydrologic and drill-hole data for test well USW H-1, adjacent to Nevada Test Site, Nye County, Nevada: U.S. Geological Survey Open-File Report 83-141.
- Rush, F.E., Thordarson, William, and Pyles, D.G., 1984, Geohydrology of Test Well USW-H1, Yucca Mountain, Nye County, Nevada: U.S. Geological Survey Water-Resources Investigation Report 83-4032.
- Russell, C.E., 1987, Hydrogeologic investigations of flow in fractured tuffs, Rainier Mesa, Nevada Test Site: University of Nevada, Las Vegas unpublished master's thesis.
- Russell, C.E., 1988
see Hess, J.W., et al., 1988
- Russell, C.E., 1989, Annotated bibliography of the physical data of Rainier Mesa and Yucca Mountain: Desert Research Institute Report 41113 (also NWPO-TR-012-89, Agency for Nuclear Projects, Carson City, Nev.).
- Russell, C.E., 1991a, Assessment of the Nevada Test Site monitoring well system: Desert Research Institute Report 45072 [DOE/NV/10384-31]
- Russell, C.E., 1991b
see Cullen, J.J., et al., 1991
- Russell, C.E., 1991c
see Thompson, C.B., and Russell, C.E., 1991
- Russell, C.E., 1993, Geochemical and hydrologic characterization of the effluent draining from U12E, U12N, U12T tunnels, Area 12, Nevada Test Site: Desert Research Institute Report 45105 [DOE/NV/10845-21]
- Russell, C.E., 1995
see Gillespie, D.R., et al., 1995
- Russell, C.E., Hess, J.W., and Tyler, S.W., 1987, Hydrogeologic investigations of flow in fractured tuffs, Rainier Mesa, Nevada Test Site, *in* Evans, D.D., and Nicholson, T.J., eds., Flow and transport through unsaturated fractured rock: American Geophysical Union, p. 43-50.
- Russell, C.E., Hess, J.W., and Tyler, S.W., in press, Hydrogeologic investigation of flow in fractured tuffs, Rainier Mesa, Nevada Test Site: Desert Research Institute Report 45062.
- Russell, C.E., Jacobson, R.L., and Amy, P.S., 1991, Spatial variability of deep subsurface microorganisms in relatively homogeneous ash-fall tuffs and correlation to hydrogeologic and geochemical parameters: Abstracts with Programs--Geological Society of America, v.23, no. 6, p. 202.
- Russell, C.E., Jacobson, R.L., Haldeman, D.L., and Amy, P.S., 1994, Heterogeneity of deep subsurface microorganisms and correlation to hydrogeological and geochemical parameters: Geomicrobiology Journal, v. 12, p. 37-51.
- Russell, G.H., and Locke, G.L., in press, Summary of data concerning radiological contamination at well PH-2, Nevada Test Site, Nye County, Nevada: U.S. Geological Survey Open-File Report.

- Ryall, Alan, and Savage, W.U., 1969, A comparison of seismological effects for the Nevada underground test Boxcar with natural earthquakes in the Nevada region: *Journal of Geophysical Research*, v.74, no.17, p.4281-4289.
- Ryerson, F.J., and Qualheim, B.J., 1983, Mineralogic and petrologic investigation of pre-test core samples from the spent fuel test-Climax: Lawrence Livermore National Laboratory Report UCID-19976.
- Ryerson, F.J., 1985
see Beiriger, J.M., et al., 1985
- Rynes, N.J., 1991
see Foley, M.G., et al., 1991
- Sachs, D.C., 1961
see Adams, W.M., et al., 1961
- Sadler, W.R., Campana, M.E., Jacobson, R.L., and Ingraham, N.L., 1992, A deuterium-calibrated, discrete-state compartment model of regional groundwater flow, Nevada Test Site and vicinity: *Desert Research Institute Report 45088 [DOE/NV/10845-09]*
- Saikia, C.K., 1991
see Burdick, L.J., et al., 1991
- Saltus, R.W., in press, Regional map of southern Nevada showing thickness of Cenozoic stratigraphy, based on gravity interpretation: U.S. Geological Survey map, scale 1:500,000.
- Sargent, K.A., 1965a, Heavy minerals for correlation and identification of Tertiary rhyolites at the Nevada Test Site [abs.]: *Geological Society of America Special Paper 82*, p. 344.
- Sargent, K.A., 1965b, Use of magnetic susceptibility and grain density in identification of basalt flows at the Nevada Test Site, in *Geological Survey Research 1965: U.S. Geological Survey Professional Paper 525-B*, p. B142-B145.
- Sargent, K.A., 1968a
see Noble, D.C., et al., 1968
- Sargent, K.A., 1968b
see Orkild, P.P., et al., 1968
- Sargent, K.A., 1969a, Petrography and heavy minerals of three groups of rhyolitic lavas, Pahute Mesa, Nevada Test Site, in *Geological Survey Research 1969: U.S. Geological Survey Professional Paper 650-C*, p. C18-C24.
- Sargent, K.A., 1969b, Summary geologic report on the Ue13a drill hole, eastern Belted Range, Nye County, Nevada: *U.S. Geological Survey Report USGS-474-29 [Special Studies-78]*
- Sargent, K.A., 1969c, Summary geologic report on the U20e emplacement hole, Pahute Mesa, Nevada Test Site: *U.S. Geological Survey Report USGS-474-78 [Special Studies-25, supp. 2]*
- Sargent, K.A., 1969d
see Orkild, P.P., et al., 1969
- Sargent, K.A., 1973
see Dixon, G.L., et al., 1973
- Sargent, K.A., 1976

- see Dixon, G.L., et al., 1976
- Sargent, K.A., 1977
see Christiansen, R.L., et al., 1977
- Sargent, K.A., 1979
see Crowe, B.M., and Sargent, K.A., 1979
- Sargent, K.A., 1989a
see Bedinger, M.S., et al., 1989
- Sargent, K.A., 1989b
see Sawyer, D.A., and Sargent, K.A., 1989
- Sargent, K.A., Dixon, G.L., and Spengler, R.W., 1972, Lithologic logs and stratigraphic identification of exploratory and emplacement drill holes in Area 7, Nevada Test Site: U.S. Geological Survey Report USGS-474-152 [NTS-241]
- Sargent, K.A., McKay, E.J., and Burchfiel, B.C., 1970, Geologic map of the Striped Hills quadrangle, Nye County, Nevada: U.S. Geological Survey Quadrangle Map GQ-882, scale 1:24,000.
- Sargent, K.A., and Orkild, P.P., 1973, Geologic map of the Wheelbarrow Peak-Rainier Mesa area, Nye County, Nevada: U.S. Geological Survey Miscellaneous Geologic Investigations Map I-754, scale 1:48,000.
- Sargent, K.A., and Stewart, J.H., 1971, Geologic map of the Specter Range NW quadrangle, Nye County, Nevada: U.S. Geological Survey Geologic Quadrangle Map GQ-884, scale 1:24,000.
- Sasagawa, G.S., 1988
see Zumberge, M.A., et al., 1988
- Sass, J.H., and Lachenbruch, A.H., 1982a, Hydrologic implications of preliminary heat-flow data from the Nevada Test Site [abs.]: EOS, Transactions, American Geophysical Union, v. 63, no. 45, p. 1099.
- Sass, J.H., and Lachenbruch, A.H., 1982b, Preliminary interpretation of thermal data from the Nevada Test Site: U.S. Geological Survey Open-File Report 82-973.
- Sass, J.H., Lachenbruch, A.H., Dudley, W.W., Jr., Priest, S.S., and Munroe, R.J., 1988, Temperature, thermal conductivity, and heat flow near Yucca Mountain, Nevada: Some tectonics and hydrologic implications: U.S. Geological Survey Open-File Report 87-649.
- Saucier, R.T., and Wire, J.C., 1964, Project Pre-Schooner: Geological investigations for test site selection, Gold Meadows area, Nevada Test Site: U.S. Army Engineer Waterways Experiment Station, Vicksburg, Miss., Report AEWES-MISC-PAPER-3-618.
- Savage, J.C., 1971
see Kinoshita, W.T., and Savage, J.C., 1971
- Savage, J.C., Kinoshita, W.T., and Prescott, W.H., 1973, Geodetic determination of strain at the Nevada Test Site [abs.]: Earthquake Notes, v. 44, no. 1-2, p. 62.
- Savage, J.C., Kinoshita, W.T., and Prescott, W.H., 1974, Geodetic determination of strain at the Nevada Test Site following the Handley event: Seismological Society of America Bulletin, v. 64, no. 1, p. 115-129.

Savage, W.U., 1969

see Ryall, Alan, and Savage, W.U., 1969

Savard, C.S., 1989, Evidence for the boundary between the Oasis Valley and Alkali Flat Furnace Creek Ranch ground-water subbasins, Nevada: EOS, Transactions, American Geophysical Union, v. 70, no. 43, p. 1100.

Savard, C.S., 1991

see Arteaga, F.E., et al., 1991

Savard, C.S., 1994a, Ground-water recharge in Fortymile Wash near Yucca Mountain, Nevada, 1992-1993, in High level radioactive waste management: proceedings of the fifth annual international conference on high level radioactive waste management, Las Vegas, Nev., v.4: American Nuclear Society, p. 1805-1813.

Savard, C.S., 1994b

see Osterkamp, W.R., et al., 1994

Savard, C.S., 1995

see Hale, G.S., et al., 1995

Savino, J.M., 1981

see Minster, J.B., et al., 1981

Sawyer, D.A., 1989

see Warren, R.G., et al., 1989

Sawyer, D.A., 1993

see Minor, S.A., et al., 1993

Sawyer, D.A., 1996

see Laczniaak, R.J., et al., 1996

Sawyer, D.A., Cole, J.C., Laczniaak, R.J., and Trudeau, D.A., 1991, Hydrogeologic uncertainties in the Nevada Test Site: Abstracts with Programs--Geological Society of America, v. 23, no. 5, p. 76.

Sawyer, D.A., Fleck, R.J., Lanphere, M.A., Warren, R.G., and Broxton, D.E., 1990, Episodic volcanism in the southwest Nevada volcanic field: New $^{40}\text{Ar}/^{39}\text{Ar}$ geochronologic results [abs.]: EOS, Transactions, American Geophysical Union, v. 71, no. 43, p. 1296.

Sawyer, D.A., Fleck, R.J., Lanphere, M.A., Warren, R.G., Broxton, D.E., and Hudson, M.R., 1994, Episodic caldera volcanism in the Miocene southwestern Nevada volcanic field: Revised stratigraphic framework, $\text{Ar}^{40}/\text{Ar}^{39}$ geochronology, and implications for magmatism and extension: Geological Society of America Bulletin, v. 106, no. 10, p. 1304-1318.

Sawyer, D.A., and Sargent, K.A., 1989, Petrologic evolution of divergent peralkaline magmas from the Silent Canyon caldera complex, southwestern Nevada volcanic field: Journal of Geophysical Research, v. 94, no. B5, p. 6021-6040.

Sawyer, D.A., Wahl, R.R., Cole, J.C., Minor, S.A., Laczniaak, R.J., Warren, R.G., Engle, C.M., and Vega, R.G., 1995, Preliminary digital geologic map database of the Nevada Test Site area, Nevada: U.S. Geological Survey Open-File Report 95-567.

Schaefer, D.H., 1985

- see Whitfield, M.S., et al., 1985
- Schilling, S.P., 1993
see Minor, S.A., et al., 1993
- Schmeltzer, J.S., Miller, J.J., and Gustafson, D.L., 1993, Flood assessment at the Area 5 Radioactive Waste Management Site and the proposed Hazardous Waste Storage Unit DOE/Nevada Test Site, Nye County, Nevada: Raytheon Services Nevada, Las Vegas report.
- Schmidt, D.L., 1995a
see Dettinger, M.D., et al., 1995
- Schmidt, D.L., 1995b
see Swadley, W.C., et al., 1995
- Schmoker, J.W., 1978
see Kososki, B.A., et al., 1978
- Schmoker, J.W., 1982
see Robbins, S.L., et al., 1982
- Schmoker, J.W., and Kososki, B.A., 1978, Principal facts for borehole gravity stations in test wells Ue10j, Ue7ns, and Ue5n, Nevada Test Site, Nye County, Nevada: U.S. Geological Survey Open-File Report 78-212.
- Schoenthaler, D.R., 1980
see Anderson, L.A., et al., 1980
- Schoff, S.L., 1963
see Eakin, T.E., et al., 1963
- Schoff, S.L., and Moore, J.E., 1964, Chemistry and movement of ground water, Nevada Test Site: U.S. Geological Survey Report TEI-838.
- Schoff, S.L., and Moore, J.E., 1968, Sodium as a clue to direction of ground-water movement, Nevada Test Site, in Geological Survey Research 1968: U.S. Geological Survey Professional Paper 600-D, p. D30-D33.
- Schoff, S.L., and Wilmarth, V.R., 1961, Review of hydrology of Areas 3 and 12, Nevada Test Site: U.S. Geological Survey Technical Letter NTS-2.
- Schoff, S.L., and Winograd, I.J., 1961, Hydrologic significance of six core holes in carbonate rocks of the Nevada Test Site: U.S. Geological Survey Open-File Report TEI-787.
- Schoff, S.L., and Winograd, I.J., 1962a, Hydrologic significance of six core holes in carbonate rocks, Nevada Test Site [abs.]: Geological Society of America Special Paper 68, p. 317.
- Schoff, S.L., and Winograd, I.J., 1962b, Potential aquifers in carbonate rocks, Nevada Test Site, Nevada: U.S. Geological Survey Professional Paper 450-C, p. C111-C113.
- Schrauf, T., 1979
see Pratt, H.R., et al., 1979
- Schroeder, N.C., Morgan, D., and Rokop, D.J., 1992, Migration of technetium-99 in the Nevada Test Site aquifer:

Abstracts of Papers, American Chemical Society National Meeting, v. 203, p. GEOC 44.

Schuler, K.W., 1982

see Rechard, R.P., and Schuler, K.W., 1982

Schulz, R.K., Romney, E.M., Kendall, E.W., Hunter, R.B., Fujii, L.M., and Greger, P.D., 1991, Tritium migration studies at the Nevada Test Site: U.S. Dept. of Energy Report DOE/NV-345.

Schuraytz, B.C., Vogel, T.A., and Younker, L.W., 1985, Inflections in elemental and mineralogical gradients within the Topopah Spring Member of Paintbrush Tuff: Evidence for the resolution of compositional and thermal properties across a magmatic interface: EOS, Transactions, American Geophysical Union, v. 66, no. 18, p. 391.

Schuraytz, B.C., Vogel, T.A., and Younker, L.W., 1987, Topopah Spring Tuff: Evidence for dynamic withdrawal from a layered magma body: Lawrence Livermore National Laboratory Report UCRL-15949.

Schweickert, R.A., 1989

see Caskey, S.J., and Schweickert, R.A., 1989

Schweickert, R.A., 1992

see Caskey, S.J., and Schweickert, R.A., 1992

Schweickert, R.A., and Caskey, S.J., 1990, Pre-middle Miocene extensional history of the Nevada Test Site (NTS) region, southern Nevada: Abstracts with Programs--Geological Society of America, v. 22, no. 3, p. 81.

Schweiger, J.S., 1979a

see Coles, D.G., et al., 1979

Schweiger, J.S., 1979b

see Ramspott, L.D., et al., 1979

Science Applications International Corp., 1991, Preliminary final special Nevada report: SAIC report.

Science Applications International Corp., 1989, Special Nevada Report: Evaluation of cumulative effects on the environment and population: SAIC report.

Scott, J.H., 1980

see Hagstrum, J.T., et al., 1980

Scott, J.H., 1983

see Daniels, J.J., and Scott, J.H., 1983

Scott, J.H., Carroll, R.D., and Cunningham, D.R., 1964, Interpretation of electrical resistivity and self-potential measurements, Bilby event, Yucca Flat, Nevada: U.S. Geological Survey Technical Letter NTS-67.

Scott, P., and Helmberger, D.V., 1981, The structure of the Moho beneath Pahute Mesa, Nevada Test Site: EOS, Transactions, American Geophysical Union, v. 62, no. 45, p. 971.

Scott, R.B., 1983

see Byers, F.M., Jr., et al., 1983

Scott, R.B., 1984

see Ander, H.D., et al., 1984

Scott, R.B., Bath, G.D., Flanigan, V.J., Hoover, D.B., Rosenbaum, J.G., and Spengler, R.W., 1984, Geological and geophysical evidence of structures in northwest-trending washes, Yucca Mountain, southern Nevada, and their possible significance to a nuclear waste repository in the unsaturated zone: U.S. Geological Survey Open-File Report 84-567.

Scott, R.B., Spengler, R.W., Diehl, S.F., Lappin, A.R., and Chornack, M.P., 1983, Geologic character of tuffs in the unsaturated zone at Yucca Mountain, southern Nevada, *in* Mercer, J.W., Rao, P.S.C., and Marine, I.W., eds., Role of the unsaturated zone in radioactive and hazardous waste disposal: Ann Arbor Science Publishers, p. 289-335.

Scott, W.B., 1990, Hydrologic activities of the U.S. Geological Survey in support of the Radionuclide Migration Program, Nevada Test Site and vicinity, Nye County, Nevada: Fiscal year 1987: U.S. Geological Survey Open-File Report 90-105.

Seaber, P.R., 1993
see Dale, D.A., and Seaber, P.R., 1993

Secor, D.T., 1974
see Burchfiel, B.C., et al., 1974

Semarge, R.E., 1982
see Bish, D.L., and Semarge, R.E., 1982

Sembera, E.D., 1977
see Navarro, Richard, et al., 1977

Semken, S.C., 1984, A neodymium and strontium isotopic study of late Cenozoic basaltic volcanism in the southwestern Basin and Range Province: University of California, Los Angeles unpublished master's thesis.

Semken, S.C., and DePaolo, D.J., 1983, Sm-Nd and Rb-Sr constraints on Cenozoic basalt petrogenesis and mantle heterogeneity in the SW Great Basin: EOS, Transactions, American Geophysical Union, v. 64, no. 18, p. 338.

Senseny, P.E., 1981
see Parrish, D.K., and Senseny, P.E., 1981

Senterfit, R.M., Hoover, D.B., and Chornack, M.P., 1982, Resistivity sounding investigation by the Schlumberger method in the Yucca Mountain and Jackass Flats area, Nevada Test Site, Nevada: U.S. Geological Survey Open-File Report 82-1043.

Shakal, A.F., 1973
see Buje, C.G., et al., 1973

Sharp, J.V.A., 1968
see Essington, E.H., and Sharp, J.V.A., 1968

Sharps, J.A., 1985a
see Garcia, M.N., and Sharps, J.A., 1985

Sharps, J.A., 1985b
see Quinlivan, W.D., et al., 1985

Sharps, J.A., 1986
see Garcia, M.N., and Sharps, J.A., 1986

Sharps, J.A., 1987, Review of lithologic logs of selected exploratory and emplacement drill holes completed between November 1975 and November 1983 in Area 7, Nevada Test Site, Nye County, Nevada: U.S. Geological Survey Report USGS-474-320 [NTS-266]

Shaw, Henry, 1992

see Copenhaver, S.A., et al., 1992

Shepard, A.O., 1961, A heulandite-like mineral associated with clinoptilolite in tuffs of Oak Spring Formation, Nevada Test Site, Nye County, Nevada, in Geological Survey Research 1961: U.S. Geological Survey Professional Paper 424-C, p. C320-C323.

Shepard, A.O., 1965

see Hoover, D.L., and Shepard, A.O., 1965

Sherman, N.W., 1987

see Taylor, S.R., et al., 1987

Sherwood, A.E., 1974, In-situ permeability analysis using barometric pressure fluctuations: Lawrence Livermore Laboratory Report UCRL-51687.

Shinn, J.H., Gouveia, F.J., Patton, S.E., and Fry, C.O., 1993, Area 11 case study of radionuclide movement by storm channel erosion: a baseline method and initial evaluation: Lawrence Livermore National Laboratory Report UCRL-ID-115047.

Shipman, F.H., Johnson, J.N., and Green, S.J., 1974, Mechanical properties of two highly porous geologic materials: Terra Tek Inc. Report TR-73-45.

Shoemaker, E.M., 1969

see Christiansen, R.L., et al., 1969

Short, N.M., 1963, Contact granitization of a Cambrian orthoquartzite by the Gold Meadows quartz monzonite, Nevada Test Site [abs.]: Geological Society of America Special Paper 73, p. 241-242.

Short, N.M., 1969, Physical, chemical and optical changes in intensely shocked "basalt" from the Danny Boy nuclear crater [abs.]: Meteoritics, v. 4, no. 3, p. 206-207.

Short, N.M., 1974

see Fleischer, R.L., et al., 1974

Shott, G.J., 1993

see Lindstrom, F.T., et al., 1993

Shott, G.J., Muller, C.J., Barker, L.E., Cawfield, D.E., Lindstrom, F.T., Linkenheil, D.G., Sully, M.J., McDowell-Boyer, L.M., and Thorne, D.J., 1995, Performance assessment for the Area 5 Radioactive Waste Management Site at the Nevada Test Site, Nye County, Nevada. Revision 2.0: U.S. Dept. of Energy Report DOE/NV/11432-196.

Shroba, R.R., 1983, Soil properties as age indicators for Quaternary surficial deposits and faults in the Nevada Test Site area, southern Nevada [abs.]: Proceedings of the Second symposium on containment of underground nuclear explosions, vol. 1: Lawrence Livermore National Laboratory Report CONF-830882, p. 245.

Shroba, R.R., 1984

- see Ander, H.D., et al., 1984
- Shroba, R.R., 1987
see Yount, J.C., et al., 1987
- Shroba, R.R., 1991
see Whitney, J.W., and Shroba, R.R., 1991
- Shroba, R.R., 1995
see Swadley, W.C., et al., 1995
- Shroba, R.R., Muhs, D.R., and Rosholt, J.N., 1988a, Physical properties and radiometric age estimates of surficial and fracture-fill deposits along a portion of the Carpetbag fault system, Nevada Test Site, Nye County, Nevada: U.S. Dept. of Energy Report DOE/NV/10583-1.
- Shroba, R.R., Muhs, D.R., and Rosholt, J.N., 1988b, Uranium-trend and uranium-series age estimates of surficial and fracture-fill deposits along part of the Carpetbag fault system, Nye County, Nevada [abs.]: Geological Society of America Abstracts with Programs, v. 20, no. 3, p. 231.
- Shulters, Jacqueline, 1990
see Frizzell, V.A., Jr., and Shulters, Jacqueline, 1990
- Shutler, M.D., 1962
see Bunker, C.M., and Shutler, M.D., 1962
- Siefken, D.L., and Starmer, R.J., 1983, NRC-funded studies on waste disposal in partially saturated media, *in* Mercer, J.W., Rao, P.S.C., and Marine, I.W., eds., Role of the unsaturated zone in radioactive and hazardous waste disposal: Ann Arbor Science Publishers, p. 1-10.
- Sikora, R.F., 1993a
see Langenheim, V.E., et al., 1993
- Sikora, R.F., 1993b
see Ponce, D.A., et al., 1993
- Silva, R.J., 1991
see Buddemeier, R.W., et al., 1991
- Silva, R.J., Evans, R., Rego, J.H., and Buddemeier, R.W., 1986, Technetium analyses in the radionuclide migration project: Lawrence Livermore National Laboratory Nuclear Chemistry Division FY86 annual report, Livermore, CA., p. 3-14 to 3-16.
- Silva, R.J., Evans, R., Rego, J.H., and Buddemeier, R.W., 1987, Methods and results of 99Tc analysis of Nevada Test Site groundwaters: Lawrence Livermore National Laboratory Report UCRL-96399.
- Silva, R.J., Evans, R., Rego, J.H., and Buddemeier, R.W., 1988, Methods and results of Tc-99 analysis of Nevada Test Site groundwaters: Journal of Radioanal. Nucl. Chemistry, v.124, no.2, p. 397-405.
- Simanton, J.R., 1983
see Bostick, K.V., et al., 1983
- Simonds, F.W., 1985

- see Covington, H.R., and Simonds, F.W., 1985
- Simonds, F.W., 1986
see Williams, V.S., et al., 1986
- Simonds, F.W., 1989, Geology and hydrothermal alteration at the Calico Hills, Nye County, Nevada: University of Colorado, Boulder unpublished master's thesis.
- Simonson, R., 1978
see Pratt, H.R., et al., 1978
- Sinks, D., 1989
see McKague, H.L., et al., 1989
- Sinnock, Scott, 1982, Geology of the Nevada Test Site and nearby areas, southern Nevada: Sandia National Laboratories Report SAND82-2207.
- Sinnock, Scott, 1983
see Connolly, J.R., et al., 1983
- Sinton, P.O., 1987, Three-dimensional steady state, finite-difference model of the ground-water flow system in the Death Valley groundwater basin, Nevada-California: Colorado School of Mines unpublished master's thesis.
- Skrove, J., 1966
see Boardman, C.R., and Skrove, J., 1966
- Smith, A.T., 1993
see Goldstein, Peter, et al., 1993
- Smith, B.E., 1969
see Hamilton, R.M., et al., 1969
- Smith, B.E., 1971
see Hamilton, R.M., et al., 1971
- Smith, B.E., 1972
see Hamilton, R.M., et al., 1972
- Smith, Christian, Vollendorf, W.C., and Warren, W.E., 1981a, In-situ stress from hydraulic fracture measurements in G tunnel, Nevada Test Site: Sandia National Laboratories Report SAND-80-1138.
- Smith, Christian, Ross, H.P., and Edquist, Ronald, 1981b, Interpreted resistivity and IP section line W1: Wahmonie area, Nevada Test Site, Nevada: U.S. Geological Survey Open-File Report 81-1350.
- Smith, C.W., 1971, Dynamic measurements of stress pulses in tuff at Nevada Test Site: Stanford Research Institute Report DNA-2811F.
- Smith, C.W., and Bass, R.C., 1981, The residual stress effect in saturated tuff rock: EOS, Transactions, American Geophysical Union, v. 62, no. 45, p. 1027.
- Smith, D.K., 1993a, A Review of literature pertaining to the leaching and sorption of radionuclides associated with nuclear explosive melt glasses: Lawrence Livermore National Laboratory Report UCRL-ID-113370.

- Smith, D.K., 1993b
see Buchholtz-ten Brink, Marilyn, et al., 1993
- Smith, D.K., 1994a, Characterization of nuclear explosive melt debris: Lawrence Livermore National Laboratory Report UCRL-JC-119227.
- Smith, D.K., 1994b
see Davisson, M.L., et al., 1994
- Smith, D.K., 1994c
see Kao, C.S., et al., 1994
- Smith, D.K., 1995a, Challenges in defining a radiologic and hydrologic source term for underground nuclear test centers, Nevada Test Site, Nye County, Nevada: Lawrence Livermore National Laboratory Report UCRL-JC-120389.
- Smith, D.K., 1995b, Characterization of nuclear explosive melt debris: Radiochimica Acta, vol. 69, p. 157-167.
- Smith, D.K., Esser, B.K., Kenneally, J.M., Nagle, R.J., Rego, J.H., and Royval, J.L., 1996, Hydrologic resources management program FY 1995 progress report: Lawrence Livermore National Laboratory Report UCRL-ID-1234886.
- Smith, D.K., Esser, B.K., and Thompson, J.L., 1995, Uncertainties associated with the definition of a hydrologic source term for the Nevada Test Site: Lawrence Livermore National Laboratory Report UCRL-ID-120322.
- Smith, D.K., Nagle, R.J., and Kenneally, J.M., 1995, Transport of gaseous fission products adjacent to an underground nuclear test cavity: Lawrence Livermore National Laboratory Report UCRL-JC-122921.
- Smith, D.M., 1992
see Thoma, S.G., et al., 1992
- Smith, E.I., 1991
see Naumann, T.R., et al., 1991
- Smith, G.I., 1989
see Grose, T.L., and Smith, G.I., 1989
- Smith, K.D., and Brune, J.N., 1993, A sequence of very shallow earthquakes in the Rock Valley fault zone; southern Nevada Test Site: EOS, Transactions, American Geophysical Union, v. 74, no. 43; Suppl. p. 417.
- Smith, M.E., and Carnahan, C.L., 1968, The movement of gaseous radionuclides through geologic media (U): Hydrology, Isotopes, A Teledyne Company Report NVO-1229-85.
- Smith, N.F., 1991
see Burdick, L.J., et al., 1991
- Smith, R.E., n.d.
see Meyer, G.L., and Smith, R.E., n.d.
- Smith, S.W., 1970
see Anderson, D.L., et al., 1970
- Smyth, J.R., 1979
see Wolfsberg, Kurt, et al., 1979

- Smyth, J.R., 1980
see Sykes, M.L., et al., 1980
- Snoeberger, D.F., 1971
see Morris, G.A., et al., 1971
- Snoeberger, D.F., Morris, C.J., and Morris, G.A., 1971, Field measurement of permeabilities in NTS Area 9: Lawrence Livermore Laboratory Report UCID-15895.
- Snow, J.K., 1988
see Wernicke, Brian, et al., 1988
- Snow, J.K., 1992, Large-magnitude Permian shortening and continental margin tectonics in the southern Cordillera: Geological Society of America Bulletin, v. 104, no. 1, p. 80-105.
- Snyder, D.B., 1982
see Kane, M.F., et al., 1982
- Snyder, D.B., 1983
see Jansma, P.E., et al., 1983
- Snyder, D.B., and Carr, W.J., 1982, Preliminary results of gravity investigations at Yucca Mountain and vicinity, southern Nye County, Nevada: U.S. Geological Survey Open-File Report 82-701.
- Snyder, D.B., and Carr, W.J., 1984, Interpretation of gravity data in a complex volcano-tectonic setting, southwestern Nevada: Journal of Geophysical Research, B, v. 89, no. 12, p. 10,193-10,206.
- Snyder, D.B., and Oliver, H.W., 1981, Preliminary results of gravity investigations of the Calico Hills, Nevada Test Site, Nye County, Nevada: U.S. Geological Survey Open-File Report 81-101.
- Snyder, K.E., 1993
see Miller, J.J., et al., 1993
- Snyder, K.E., and Gustafson, D.L., 1994, Interim report of trench mapping near the Area 5 Radioactive Waste Management Site: Raytheon Services Nevada report.
- Snyder, K.E., Gustafson, D.L., Huckings-Gang, H.E., Miller, J.J., and Rawlinson, S.E., 1995, Surficial geology and performance assessment for a radioactive waste management facility at the Nevada Test Site: U.S. Dept. of Energy Report DOE/NV/10833-25.
- Snyder, K.E., Parsons, S.M., and Gustafson, D.L., 1993, Field results of subsurface geologic mapping at the Area 5 Radioactive Waste Management Site, Nevada Test Site, Nye County, Nevada: Lockheed Environmental Systems & Technologies Co. report.
- Snyder, K.E., Gustafson, D.L., Miller, J.J., and Rawlinson, S.E., 1994, Geological components of site characterization and performance assessment for a radioactive waste management facility at the Nevada Test Site: U.S. Dept. of Energy Report DOE/NV/10833-20.
- Snyder, R.P., 1963
see Williams, W.P., et al., 1963
- Snyder, R.P., 1968a, Electrical and caliper logs as lithologic indicators in volcanic rocks, Nevada Test Site, *in* Eckel,

- E.B., ed., Nevada Test Site: Geological Society of America Memoir 110, p. 117-124.
- Snyder, R.P., 1968b
see Ekren, E.B., et al., 1968
- Snyder, R.P., 1969
see Orkild, P.P., et al., 1969
- Snyder, R.P., 1970, U20e postshot fractures, Jorum event, Nevada Test Site: U.S. Geological Survey Report USGS-474-92 [Special Studies-84]
- Snyder, R.P., 1971, Composite postshot fracture map of Pahute Mesa, Nevada Test Site: U.S. Geological Survey Report USGS-474-100 [Special Studies-86]
- Snyder, R.P., 1972
see Steele, S.G., and Snyder, R.P., 1972
- Snyder, R.P., 1973a, Recent fault movement on Pahute Mesa, Nevada Test Site, from May 1970 through June 1973: U.S. Geological Survey Report USGS-474-137 [Special Studies-91]
- Snyder, R.P., 1973b
see Steele, S.G., and Snyder, R.P., 1973
- Snyder, R.P., 1974
see Ellis, W.L., and Snyder, R.P., 1974
- Snyder, R.P., 1975a, Explosion-induced fractures of selected announced underground nuclear tests, Yucca Flat, Nevada Test Site, Nevada, January through December 1973: U.S. Geological Survey Report USGS-474-204 [NTS-255]
- Snyder, R.P., 1975b
see Cunningham, M.J., and Snyder, R.P., 1975
- Snyder, R.P., 1976, Explosion-induced fractures of selected announced underground nuclear tests, Yucca Flat, Nevada Test Site, Nevada, January through December 1974: U.S. Geological Survey Report USGS-474-209 [NTS-258]
- Snyder, R.P., 1977, Geology of the Gold Meadows stock, Nevada Test Site: U.S. Geological Survey Report USGS-474-179 [Area 12-26]
- Snyder, R.P., 1991
see Nelson, P.H., et al., 1991
- Snyder, R.P., and Rogers, Susan, 1972, Explosion-induced surface fractures of selected announced underground nuclear tests, Yucca Flat, Nevada Test Site, October 1969 through December 1970: U.S. Geological Survey Report USGS-474-133 [NTS-231]
- Sokol, D., 1968, The radiohydrologic surveillance program at the NTS: Isotopes, Inc. report.
- Spaulding, W.G., 1983, Vegetation and climates of the last 45,000 years in the vicinity of the Nevada Test Site, south-central Nevada: U.S. Geological Survey Open-File Report 83-535.

- Spence, W., 1974, P-wave residual differences and inferences on an upper mantle source for the Silent Canyon volcanic centre, southern Great Basin, Nevada: *Geophysical Journal (Royal Astronomical Society)*, v. 38, no. 3, p. 505-523.
- Spencer, E.B., 1990, A radiocarbon study of groundwater in the western Nevada Test Site and vicinity: University of Nevada, Reno unpublished master's thesis.
- Spengler, R.W., 1972
see Sargent, K.A., et al., 1972
- Spengler, R.W., 1973
see Dixon, G.L., et al., 1973
- Spengler, R.W., 1983a
see Bentley, C.B., et al., 1983
- Spengler, R.W., 1983b
see Craig, R.W., et al., 1983
- Spengler, R.W., 1983c
see Scott, R.B., et al., 1983
- Spengler, R.W., 1984a
see Scott, R.B., et al., 1984
- Spengler, R.W., 1984b
see Thordarson, William, et al., 1984
- Spengler, R.W., and Glanzman, V.M., 1980, Review of geology and material property data in shallow alluvium, eastern Area 2, Nevada Test Site: U.S. Geological Survey Report USGS-474-266, [NTS-262]
- Springer, J.E., 1981
see Thorpe, R.K., and Springer, J.E., 1981
- Springer, J.E., Thorpe, R.K., and McKague, H.L., 1984, Borehole elongation and its relation to tectonic stress at the Nevada Test Site: Lawrence Livermore National Laboratory Report UCRL-53528.
- Spruill, J.L., 1965, Project DUGOUT, Nevada Test Site--June 24, 1964: Apparent crater studies: Army Engineers Cratering Group Report PNE-601F.
- Starmer, R.J., 1983
see Siefken, D.L., and Starmer, R.J., 1983
- Stauder, William, 1971, Smaller aftershocks of the Benham nuclear explosion: *Seismological Society of America Bulletin*, v. 61, no. 2, p. 417-428.
- Stead, F.W., 1963, Tritium distribution in ground water around large underground fusion explosions: *Science*, v. 142, p. 1163-1165.
- Stead, F.W., 1964, Distribution in groundwater of radionuclides from underground nuclear explosions, *in* Engineering with nuclear explosives, April 21, 22, 23, 1964: proceedings of the third Plowshare symposium: U.S. Atomic Energy Commission Report TID-7695, p. 127-138.

- Stead, R.J., 1991
see Helmberger, D.V., et al., 1991
- Stead, R.J., and Helmberger, D.V., 1986, Progress in modeling strong motions at NTS: EOS, Transactions, American Geophysical Union, v. 67, no. 44, p. 1093.
- Steele, S.G., 1979
see Maldonado, Florian, et al., 1979
- Steele, S.G., and Fairer, G.M., 1978, Geological investigations, in U.S. Geological Survey investigations in connection with the Dining Car event, U12e 18 tunnel, Rainier Mesa, Nevada Test Site: U.S. Geological Survey Report USGS-474-246, p. 2-39.
- Steele, S.G., and Snyder, R.P., 1972, Explosion-induced fractures of selected announced underground nuclear tests, Yucca Flat, Nevada Test Site, January 1971 through December 1971: U.S. Geological Survey Report USGS-474-155 [NTS-237]
- Steele, S.G., and Snyder, R.P., 1973, Explosion-induced fractures of selected announced underground nuclear tests, Yucca Flat, Nevada Test Site, Nevada, January through December 1972: U.S. Geological Survey Report USGS-474-176 [NTS-245]
- Stephens, D.M., 1988
see Robison, J.H., et al., 1988
- Stephens, D.R., 1968
see Giardini, A.A., et al., 1968
- Stephens, D.R., Louis, H., and Lilley, E.M., 1969a, Loading-unloading pv curves for tuffs from the Nevada Test Site: Lawrence Livermore Laboratory Report UCRL-50554.
- Stephens, D.R., Louis, H., and Lilley, E.M., 1969b, Pressure-volume relationships for tuffs and rhyolites from the Nevada Test Site: Lawrence Livermore Laboratory Report UCRL-50578.
- Stephens, W.E., 1978
see Healey, D.L., et al., 1978
- Stephens, W.E., 1979
see Healey, D.L., et al., 1979
- Stern, T.W., 1970
see Marvin, R.F., et al., 1970
- Stetzenbach, K.J., 1992
see Dombrowski, Tonya, et al., 1992
- Stetzenbach, K.J., 1995
see Johannesson, K.H., et al., 1995
- Stewart, J.H., 1971
see Sargent, K.A., and Stewart, J.H., 1971
- Stewart, J.H., 1988, Tectonics of the Walker Lane Belt, western Great Basin; Mesozoic and Cenozoic deformation

in a zone of shear: *in* Ernst, W.G., ed., *Metamorphism and crustal evolution of the western United States*: Prentice Hall, p. 683-713.

Stewart, J.H., and Carlson, J.E., 1978, Geologic map of Nevada, southern half: U.S. Geological Survey and Nevada Bureau of Mines and Geology Map 57, scale 1:500,000.

Stewart, S.W., 1959a
see Diment, W.H., et al., 1959

Stewart, S.W., 1959b
see McKeown, F.A., et al., 1959

Stewart, S.W., 1961
see Diment, W.H., et al., 1961

Stock, J.M., Healy, J.H., and Hickman, S.H., 1984, Report on televiwer LOG and stress measurements in core hole USW G-2, Nevada Test Site, October-November, 1982: U.S. Geological Survey Open-File Report 84-172.

Stockman, H.W., 1992, Preliminary geochemical characterization of alluvium from Trench 8 at the RWMS, Area 5, Nevada Test Site, draft of an interim report to DOE/NV: Sandia National Laboratories.

Stone, J.C., 1991
see Arteaga, F.E., et al., 1991

Stone, J.R., 1977a
see Hoffman, D.C., and Stone, J.R., 1977

Stone, J.R., 1977b
see Hoffman, D.C., et al., 1977

Stone, R., 1979
see Ramspott, L.D., et al., 1979

Stone, R., 1981
see Isherwood, D.J., et al., 1981

Stone, Y.R., 1976
see Borg, I.Y., et al., 1976

Stone, Y.R., 1977
see Borg, I.Y., et al., 1976

Story, S.P., 1994
see Haldeman, D.L., et al., 1994

Stranberg, H.D., 1968
see Giardini, A.A., et al., 1968

Strausberg, S.I., 1967, Estimating distances to hydrologic boundaries from discharging well data: *Ground Water*, v. 5, no. 1, p. 5-8.

Strausberg, S.I., 1968a, Estimating distances to hydrologic boundaries from discharging well data, *in* Eckel, E.B.,

ed., Nevada Test Site: Geological Society of America Memoir 110, p. 169.

Strausberg, S.I., 1968b, Estimating distances to hydrologic boundaries from discharging well data, Nevada Test Site [abs.]: Geological Society of America Special Paper 101, p. 422.

Strong, W., and Conrad, S.H., 1992, Using a suite of environmental tracers to estimate recharge through an arid basin: EOS, Transactions, American Geophysical Union, v. 73, no. 14; Suppl. p. 128.

Stubenrauch, A.L., 1977, Seismicity of the Nevada Test Site: April 1, 1973 to October 1, 1975: University of Wisconsin-Milwaukee unpublished master's thesis.

Stuckless, J.S., 1990

see Peterman, Z.E., et al., 1990

Stuckless, J.S., 1991, Evaluation of evidence pertaining to the origin of vein deposits exposed in Trench 14, Nevada Test Site, Nevada: U.S. Geological Survey Report CONF-910435-78.

Stuckless, J.S., 1992

see Peterman, Z.E., et al., 1992

Stuckless, J.S., 1993

see Marshall, B.D., et al., 1993

Stuckless, J.S., 1994

see Fridrich, C.J., et al., 1994

Stuckless, J.S., Peterman, Z.E., Muhs, D.R., 1991, U and Sr isotopes in groundwater and calcite, Yucca Mountain, Nevada: evidence against upwelling water: Science, v. 254, no. 5031, p. 551-554.

Stump, B.W., 1993

see Pearson, D.C., et al., 1993

Suenaga, E.L., 1972

see Froula, N.H., et al., 1972

Sully, M.J., 1993a

see Detty, T.E., et al., 1993

Sully, M.J., 1993b

see Ginanni, J.M., et al., 1993

Sully, M.J., 1995

see Shott, G.J., et al., 1995

Sully, M.J., Detty, T.E., Blout, D.O., and Hammermeister, D.P., 1994, Water fluxes in a thick desert vadose zone: Abstracts with Programs--Geological Society of America, v. 26, no. 7, p. 391.

Surdam, R.C., 1981

see Moncure, G.K., et al., 1981

Swadley, W.C., 1981

see Hoover, D.L., et al., 1981

- Swadley, W.C., 1985
see Rosholt, J.N., et al., 1985
- Swadley, W.C., 1993
see Minor, S.A., et al., 1993
- Swadley, W.C., and Hoover, D.L., 1983, Geology of faults exposed in trenches in Crater Flat, Nye County, Nevada: U.S. Geological Survey Report 83-608.
- Swadley, W.C., and Hoover, D.L., 1989, Geologic map of the surficial deposits of the Jackass Flats quadrangle, Nye County, Nevada: U.S. Geological Survey Miscellaneous Investigations Series I-1994.
- Swadley, W.C., and Hoover, D.L., 1990, Geologic map of the surficial deposits of the Yucca Flat area, Nye County, Nevada: U.S. Geological Survey Miscellaneous Investigations Series Map I-2047, scale 1:48,000.
- Swadley, W.C., Hoover, D.L., and Rosholt, J.N., 1984, Preliminary report on late Cenozoic faulting and stratigraphy in the vicinity of Yucca Mountain, Nye County, Nevada: U.S. Geological Survey Open-File Report 84-788.
- Swadley, W.C., and Huckins, H.E., 1990, Geologic map of the surficial deposits of the Skull Mountain quadrangle, Nye County, Nevada: U.S. Geological Survey Miscellaneous Investigations Series I-1972.
- Swadley, W.C., Schmidt, D.L., Shroba, R.R., Williams, V.S., and Hoover, D.L., 1995, Preliminary correlation of Quaternary and late Tertiary alluvial deposits in southeastern Nevada, *in* Scott, R.B., and Swadley, W.C., eds., Geologic studies in the Basin and Range-Colorado Plateau transition in southeastern Nevada, southwestern Utah, and northwestern Arizona, 1992: U.S. Geological Survey Bulletin 2056, p. 183-202.
- Sweeney, J.J., 1983, Characteristics of the Eleana Formation, Nevada Test Site, Lawrence Livermore National Laboratory UCRL-53445.
- Sweeney, J.J., 1984, Selection of areas for testing in the Eleana Formation: Paleozoic geology of western Yucca Flat: Lawrence Livermore National Laboratory Report UCID-20131.
- Sweeney, J.J., 1986, Site characterization report: UE11 (Yacht Hole): Lawrence Livermore National Laboratory Report UCID-20836.
- Sweeney, J.J., 1993
see Goldstein, Peter, et al., 1993
- Swolfs, H.S., 1990
see Diehl, S.F., et al., 1990
- Swolfs, H.S., 1991
see Diehl, S.F., et al., 1991
- Swolfs, H.S., Pratt, H.R., Green, S.J., and Jones, A.H., 1973, Preliminary observations of the microstructure of Nevada Test Site tuffs: Terra Tek Inc. Report TR-73-32.
- Sykes, M.L., Heiken, G.H., Smyth, J.R., and Knauth, P., 1980a, Zeolites in silicic tuffs on the Nevada Test Site: Abstracts with Programs--Geological Society of America, v. 12, no. 7, p. 532.
- Sykes, M.L., Smyth, J.R., and Heiken, G.H., 1980b, Zeolite mineralogy and chemistry in some Tertiary tuffs of southern Nevada: EOS, Transactions, American Geophysical Union, v. 61, no. 10, p. 110.

- Szabo, B.J., 1988
see Winograd, I.J., and Szabo, B.J., 1988
- Szabo, B.J., Carr, W.J., and Gottschall, W.C., 1981, Uranium-thorium dating of Quaternary carbonate accumulations in the Nevada Test Site region: U.S. Geological Survey Open-File Report 81-119.
- Szabo, B.J., and O'Malley, P.A., 1985, Uranium-series dating of secondary carbonate and silica precipitates relating to fault movements in the Nevada Test Site region and of caliche and travertine samples from the Amargosa Desert: U.S. Geological Survey Open-File Report 85-47.
- Szymanski, J.S., 1991
see Livingston, D.E., et al., 1991
- Tamura, T., 1987
see Lee, S.Y., et al., 1987
- Tarr, A.C., and Rogers, A.M., 1986, Analysis of earthquake data recorded by digital field seismic systems, Jackass Flats, Nevada: U.S. Geological Survey Open-File Report 86-420.
- Taylor, K.C., 1986
see Tyler, S.W., et al., 1986
- Taylor, S.R., 1981a, Three dimensional crust and upper mantle structure at the Nevada Test Site: EOS, Transactions, American Geophysical Union, v. 62, no. 45, p. 971-972.
- Taylor, S.R., 1981b, Time term analysis for structure at the Nevada Test Site: EOS, Transactions, American Geophysical Union, v. 62, no. 17, p. 326.
- Taylor, S.R., 1983, Three-dimensional crust and upper mantle structure at the Nevada Test Site: Journal of Geophysical Research, B, v. 88, no. 3, p. 2220-2232.
- Taylor, S.R., 1986a
see Glaser, R.E., et al., 1986
- Taylor, S.R., 1986b
see Vergino, E.S., et al., 1986
- Taylor, S.R., 1993
see App, F.N., and Taylor, S.R., 1993
- Taylor, S.R., Denny, M.D., Vergino, E.S., and Glaser, R.E., 1989, Regional discrimination between NTS explosions and western U.S. earthquakes: Bulletin of the Seismological Society of America, v. 79, no. 4, p. 1142-1176.
- Taylor, S.R., Sherman, N.W., and Denny, M.D., 1987, Spectral discrimination between NTS explosions and western United States earthquakes at regional distances: Seismological Research Letters, v. 58, no. 1, p. 17.
- Tendall, D.M., 1970, Seismic amplitude variations from NTS [abs.]: Earthquake Notes, v. 41, no. 4, p. 24-25.
- Terhune, R.W., and Glenn, H.D., 1977, Estimate of earth media shear strength at the Nevada Test Site: Lawrence Livermore Laboratory Report UCRL-52358.

Terry, S.S., 1975, Geology of the UE12t-3 vertical drill hole, Area 12, Nevada Test Site: U.S. Geological Survey Report USGS-474-213 [Area 12-38]

Terry, S.S., and Cunningham, M.J., 1975, Geology of the U12n.07 UG-3 drill hole, Area 12, Nevada Test Site: U.S. Geological Survey Report USGS-474-207 [Area 12-35]

Teufel, L.W., 1980
see Olsson, W.A., and Teufel, L.W., 1980

Teufel, L.W., 1981
see Olsson, W.A., and Teufel, L.W., 1981

Teufel, L.W., 1982, Influence of lithology on in-situ stress in volcanic tuff: EOS, Transactions, American Geophysical Union, v. 63, no. 45, p. 1111-1112.

Teufel, L.W., 1991
see Warpinski, N.R., and Teufel, L.W., 1991

Teufel, L.W., and Warpinski, N.R., 1988, Influence of natural fractures on hydraulic fracture propagation: AAPG Bulletin, v. 72, no. 2, p. 253.

Tewhey, J.D., 1979
see Ramspott, L.D., et al., 1979

Tewhey, J.D., 1980
see Coles, D.G., et al., 1980

Thamir, F., 1988
see Montazer, Parviz, et al., 1988

Thenhaus, P.C., 1986
see Perkins, D.M., et al., 1986

Thiessen, R.L., 1991
see Foley, M.G., et al., 1991

Thoma, S.G., Gallegos, D.P., and Smith, D.M., 1992, Impact of fracture coatings on fracture/matrix flow interactions in unsaturated, porous media: Water Resources Research, v. 28, no. 5, p. 1357-1367.

Thomas, J.M., 1988a, Delineation of regional ground-water systems in southern Nevada using isotopic and chemical data (abs.): Abstracts with Programs--Geological Society of America, v. 20, no. 7, p. A363.

Thomas, J.M., 1988b
see Harrill, J.R., et al., 1988

Thomas, J.M., Mason, J.L., and Crabtree, J.D., 1986, Ground-water levels in the Great Basin region of Nevada, Utah, and adjacent states: U.S. Geological Survey Hydrologic Investigations Atlas 694-B.

Thomas, K.W., 1987, Summary of sorption measurements performed with Yucca Mountain, Nevada, tuff samples and water from well J-13: Los Alamos National Laboratory Report LA-10960-MS.

Thomas, R.K., and Lappin, A.R., 1979, Mechanical modeling of nuclear waste disposal in argillite at the Nevada

Test Site: U.S. Dept. of Energy Report CONF-791112-3.

Thompson, C.B., and Russell, C.E., 1991, Information management plan for the Nevada Test Site groundwater characterization project: Desert Research Institute Report 45092 [DOE/NV/10845-12]

Thompson, J.L., 1983
see Hoffman, D.C., et al., 1983

Thompson, J.L., 1984
see Daniels, W.R., and Thompson, J.L., 1984

Thompson, J.L., comp. and ed., 1985, Laboratory and field studies related to the Radionuclide Migration Project, October 1, 1983 - September 30, 1984: Los Alamos National Laboratory Report LA-10372-PR.

Thompson, J.L., comp. and ed., 1986, Laboratory and field studies related to the Radionuclide Migration Project, October 1, 1984 - September 30, 1985: Los Alamos National Laboratory Report LA-10644-PR.

Thompson, J.L., comp. and ed., 1987, Laboratory and field studies related to the Radionuclide Migration Project, October 1, 1985 - September 30, 1986: Los Alamos National Laboratory Report LA-11081-PR.

Thompson, J.L., comp. and ed., 1988a, Laboratory and field studies related to the Radionuclide Migration Project, October 1, 1986 - September 30, 1987: Los Alamos National Laboratory Report LA-11223-PR.

Thompson, J.L., 1988b
see Ogard, A.E., et al., 1988

Thompson, J.L., comp. and ed., 1989, Laboratory and field studies related to the Hydrology/Radionuclide Migration Project October 1, 1987-September 30, 1988: Los Alamos National Laboratory Report LA-11595-PR.

Thompson, J.L., comp. and ed., 1990, Laboratory and field studies related to the Hydrology/Radionuclide Migration Project, October 1, 1988 September 30, 1989: Los Alamos National Laboratory Report LA-11947-PR.

Thompson, J.L., 1991a, Interim report of the drilling history and analysis for Nevada Test Site hole UE3e#4: Los Alamos National Laboratory Report LA-12042-MS.

Thompson, J.L., comp. and ed., 1991b, Laboratory and field studies related to the Hydrology/Radionuclide Migration Project, October 1, 1989 September 30, 1990: Los Alamos National Laboratory Report LA-12100-PR.

Thompson, J.L., 1991c, Radionuclide migration studies at the Nevada Test Site: Radiochimica Acta, v. 54, p. 149.

Thompson, J.L., 1991d, Studies of fission product movement in tuffaceous media: Los Alamos National Laboratory Report LA-UR-91-2778.

Thompson, J.L., 1991e
see Mathews, M.A., et al., 1991

Thompson, J.L., comp. and ed., 1992a, Laboratory and field studies related to the Hydrology/Radionuclide Migration Project, October 1, 1990 September 30, 1991: Los Alamos National Laboratory Report LA-12338-PR.

Thompson, J.L., 1992b
see Nimz, G.J., and Thompson, J.L., 1992

Thompson, J.L., 1993a, Fission product distribution in nuclear test cavities/chimneys, *in* High level radioactive waste management: Proceedings of the fourth annual international conference on high level radioactive waste management, April 26-30, 1993, Las Vegas, Nev., vol. 2: American Nuclear Society, p. 1517.

Thompson, J.L., comp. and ed., 1993b, Laboratory and field studies related to the Hydrology/ Radionuclide Migration Project, October 1, 1991 September 30, 1992: Los Alamos National Laboratory Report LA-12498-PR.

Thompson, J.L., comp. and ed., 1994a, Laboratory and field studies related to the Hydrology/Radionuclide Migration Project, October 1, 1992 September 30, 1993: Los Alamos National Laboratory Report LA-12721-PR.

Thompson, J.L., 1994b, Nevada Test Site: an axialog for a nuclear repository, *in* Proceedings of the fourth international conference on the chemistry and migration behavior of actinides and fission products in the geosphere, December 12-17, 1993, Charleston, S.C.: R. Oldenbourg Verlag, Munchen, p. 579.

Thompson, J.L., 1994c
see Mathews, M.A., et al., 1994

Thompson, J.L., ed., 1995a, Laboratory and field studies related to the Hydrology/Radionuclide Migration Project, October 1, 1993 September 30, 1994: Los Alamos National Laboratory Report LA-12917-PR.

Thompson, J.L., 1995b, Laboratory and field studies related to the Hydrologic Resources Management Program, October 1, 1994-September 30, 1995: Los Alamos National Laboratory Report LA-13064-PR.

Thompson, J.L. 1995c
see Smith, D.K., et al., 1995

Thompson, J.L., and Gilmore, J.S., 1989, Migration of fission products at the Nevada Test Site: Detection with an isotopic tracer: Los Alamos National Laboratory Report LA-UR-89-3049.

Thompson, J.L., and Gilmore, J.S., 1991, Migration of fission products at the Nevada Test Site: Detection with an isotopic tracer: Radiochimica Acta, v. 52/53, p. 229.

Thompson, P.H., 1987
see Hawkins, W.L., et al., 1987

Thompson, P.H., 1989a
see Drellack, S.L., et al., 1989

Thompson, P.H., 1989b
see Rayburn, C.J., et al., 1989

Thompson, P.H., 1990
see Drellack, S.L., Jr., and Thompson, P.H., 1990

Thompson, P.H., and Drellack, S.L., 1988, Geologic report: Lithology and stratigraphy of drill holes completed during 1987 in LANL use areas of Yucca Flat, Nevada Test Site. Volume 9: U.S. Dept. of Energy Report DOE/NV/10322-27.

Thordarson, William, 1961
see Price, D.E., and Thordarson, William, 1961

Thordarson, William, 1962a

- see Garber, M.S., and Thordarson, William, 1962
- Thordarson, William, 1962b
see Price, C.E., and Thordarson, William, 1962
- Thordarson, William, 1963
see Meyer, G.L., and Thordarson, William, 1963
- Thordarson, William, 1965, Perched groundwater in zeolitized-bedded tuff, Rainier Mesa and vicinity, Nevada Test Site: U.S. Geological Survey Report TEI-803.
- Thordarson, William, 1966, Perched ground water in zeolitized-bedded tuff, Rainier Mesa and vicinity, Nevada Test Site, Nevada: U.S. Geological Survey Open-File Report TEI-862.
- Thordarson, William, 1967
see Robinson, B.P., et al., 1967
- Thordarson, William, 1968
see Winograd, I.J., and Thordarson, William, 1968
- Thordarson, William, 1971
see Winograd, I.J., et al., 1971
- Thordarson, William, 1972
see Winograd, I.J., et al., 1972
- Thordarson, William, 1975
see Winograd, I.J., and Thordarson, William, 1975
- Thordarson, William, 1983a, Geohydrologic data and test results from well J-13, Nevada Test Site, Nye County, Nevada: U.S. Geological Survey Water-Resources Investigations Report 83-4171.
- Thordarson, William, 1983b
see Doty, G.C., and Thordarson, William, 1983
- Thordarson, William, 1983c
see Rush, F.E., et al., 1983
- Thordarson, William, 1984a
see Rush, F.E., et al., 1984
- Thordarson, William, 1984b
see Whitfield, M.S., et al., 1984
- Thordarson, William, 1985a, Hydrogeologic monitoring at the Faultless site, Nye County, Nevada: U.S. Geological Survey Open-File Report 84-580.
- Thordarson, William, 1985b
see Whitfield, M.S., et al., 1985
- Thordarson, William, 1987, Hydrogeology of the Faultless site, Nye County, Nevada: U.S. Geological Survey Water-Resources Investigations Report 86-4342.

Thordarson, William, 1991

see Rousseau, J.P., et al., 1991

Thordarson, William, Garber, M.S., and Walker, G.E., 1962, Ground water test well D, Nevada Test Site, Nye County, Nevada: U.S. Geological Survey Open-File Report 62-134 [TEI-803]

Thordarson, William, and Robinson, B.P., 1971, Wells and springs in California and Nevada within 100 miles of the point 37 degrees 15 feet N., 116 degrees 25 feet W., on Nevada Test Site: U.S. Geological Survey Report USGS-474-85 [NTS-227]

Thordarson, William, Rush, F.E., Spengler, R.W., and Waddell, S.J., 1984, Geohydrologic and drill-hole data for test well USW H-3, Nye County, Nevada: U.S. Geological Survey Open-File Report 84-149.

Thordarson, William, Rush, F.E., and Waddell, S.J., 1985, Geohydrology of test well USW, H-3, Yucca Mountain, Nye County, Nevada: U.S. Geological Survey Water-Resources Investigations Report 84-4272.

Thordarson, William, Young, R.A., and Winograd, I.J., 1967, Records of wells and test holes in the Nevada Test Site and vicinity (through December 1966): U.S. Geological Survey Report TEI-872.

Thorne, D.J., 1995

see Shott, G.J., et al., 1995

Thorpe, R.K., 1982

see Wilder, D.G., et al., 1982

Thorpe, R.K., 1984a, Analysis of fracturing in hole UG-2 spent fuel test-Climax: Lawrence Livermore National Laboratory Report UCID-20130.

Thorpe, R.K., 1984b

see Springer, J.E., et al., 1984

Thorpe, R.K., and Qualheim, B.J., 1985, Logging of post-test and CCH record core samples for the spent fuel test-Climax: Lawrence Livermore National Laboratory Report UCID-20351.

Thorpe, R.K., and Springer, J.E., 1981, Fracture mapping for radionuclide migration studies in the Climax granite: Lawrence Livermore National Laboratory Report UCID-19081.

Thorstenson, D.G., Weeks, E.P., Haas, Herbert, and Woodward, J.C., 1990, Physical and chemical characteristics of topographically affected airflow in an open borehole at Yucca Mountain, Nevada, in Proceedings of the topical meeting on nuclear waste isolation in the unsaturated zone, Focus '89, September 17-21, 1989: American Nuclear Society, p. 256-270.

Throckmorton, C.K., and Verbeek, E.R., 1995, Joint networks in the Tiva Canyon and Topopah Spring tuffs of the Paintbrush Group, southwestern Nevada: U.S. Geological Survey Open-File Report 95-2.

Tingley, J.V., 1983

see Quade, J.G., and Tingley, J.V., 1983

Titus, A.L., and Manger, W.L., 1992, Mid-carboniferous (E_{2c} - H_{1b}) ammonoid biostratigraphy, Nevada Test Site, Nye County, Nevada: Abstracts with Programs--Geological Society of America, v. 24, no. 6, p. 66.

Titus, A.L., Webster, G.D., Manger, W.L., Braden, A.K., and Meeks, L.K., 1995, Preliminary faunal analysis of

the south Syncline Ridge mid-carboniferous boundary section, Nevada Test Site: Abstracts with Programs--Geological Society of America, v. 27, no. 4, p. 58.

Todachine, T., 1973

see Anspaugh, L.R., 1973

Tokarz, F.J., and Murray, R.C., 1974, Long-range research program using USAEC's Nevada Test Site as an earthquake simulator: Lawrence Livermore Laboratory Report CONF-740423-1.

Tonander, K.E., 1993, Interpretation of seismic reflection data from the Piledriver Event area, Nevada Test Site: a case study for evaluation of technique for characterization of void and chimney features: Los Alamos National Laboratory Report LA-SUB-93-312.

Townsend, D.R., 1979a

see Fairer, G.M., et al., 1979

Townsend, D.R., 1979b

see Maldonado, Florian, et al., 1979

Townsend, D.R., 1983

see Orkild, P.P., et al., 1983

Townsend, D.R., and Baldwin, M.J., 1982, Geologic investigations, *in* Geologic, geophysical, and in situ stress investigations in the vicinity of the Dining Car chimney, Dining Car/Hybla Gold drifts, Nevada Test Site: U.S. Geological Survey Open-File Report 82-114, p. 1-19.

Townsend, D.R., Baldwin, M.J., Carroll, R.D., Ellis, W.L., and Magner, J.E., 1982, Geologic, geophysical, and in situ stress investigation in the vicinity of the Dining Car chimney, Dining Car/Hybla Gold drifts, Nevada Test Site: U.S. Geological Survey Open-File Report 82-137.

Townsend, Y.E., 1992

see Black, S.C., et al., 1992

Townsend, Y.E., 1993

see Black, S.C., et al., 1993

Townsend, Y.E., 1994

see Black, S.C., et al., 1994

Townsend, Y.E., 1995

see Black, S.C., et al., 1995

Tracy, J.V., 1981

see Waddell, R.K., et al., 1981

Travis, B.J., Hodson, S.W., Nuttall, H.E., Cook, T.L., and Rundberg, R.S., 1984, Numerical simulation of flow and transport in fractured tuff, *in* McVay, G.L., ed., Scientific basis for nuclear waste management VII: Materials Research Society Symposia Proceedings, v. 26, p. 1039-1046.

Travis, B.J., Nuttall, H.E., Hodson, S.W., and Rundberg, R.S., 1983, Section B: Transport of tritium from the Cambrian cavity region to RNM-2S: modeling, *in* Laboratory and field studies related to the Hydrology/Radionuclide Migration Project (October 1, 1981-September 30, 1982): Los Alamos National Laboratory Report LA-9691-PR.

Treher, E.N., and Raybold, N.A., 1982, Elution of radionuclides through columns of crushed rock from the Nevada Test Site: Los Alamos National Laboratory Report LA-9329-MS.

Trexler, J.H., 1991

see Cashman, P.H., and Trexler, J.H., 1991

Trexler, J.H., 1992

see Cashman, P.H., and Trexler, J.H., 1992

Trexler, J.H., 1993

see Herring, D.M., et al., 1993

Trexler, J.H., 1994a

see Cashman, P.H., and Trexler, J.H., 1994

Trexler, J.H., 1994b

see Cashman, P.H., et al., 1994

Trexler, J.H., 1994c

see Cole, J.C., et al., 1994

Trudeau, D.A., 1987

see Hoover, D.L., and Trudeau, D.A., 1987

Trudeau, D.A., 1990

see Hawkins, W.L., et al., 1990

Trudeau, D.A., 1991

see Sawyer, D.A., et al., 1991

Trudeau, D.A., 1993a

see Hale, G.S., and Trudeau, D.A., 1993

Trudeau, D.A., 1993b

see Hawkins, W.L., et al., 1993

Trudeau, D.A., 1995

see Hale, G.S., et al., 1995

Trudeau, D.A., in press

see Lacznia, R.J., et al., in press

Tsai, Yi-Ben, 1969a

see Aki, Keiiti, et al., 1969a

Tsai, Yi-Ben, 1969b

see Aki, Keiiti, et al., 1969b

Tsang, Y.W., and Pruess, K., 1987, Study of thermally induced convection near a high-level nuclear waste repository in partially saturated fractured tuff: Water Resources Research, vol. 23, no. 10, p. 1958-1966.

Tucci, Patrick, 1995

- see O'Brien, G.M., et al., 1995
- Turekian, K.K., 1990
see Copenhagen, S.A., et al., 1990
- Turekian, K.K., 1992
see Copenhagen, S.A., et al., 1992
- Turrin, B.D., 1988
see Wells, S.G., et al., 1988
- Twenhofel, W.S., 1980
see Dixon, G.L., et al., 1980
- Twenhofel, W.S., Black, R.A., and Balsinger, D.F., 1962, Frequency of earthquakes for selected areas in the western United States for the period 1945-1959: U.S. Geological Survey Open-File Report TEI-782.
- Twenhofel, W.S., Fernald, A.T., Jenkins, E.C., and Healey, D.L., 1981, Geology of nuclear test sites, Nevada Test Site, *in* U.S. Geological Survey Professional Paper 1275, p. 231-232.
- Twenhofel, W.S., Fernald, A.T., Jenkins, E.C., Healey, D.L., Brethauer, G.E., Muller, D.C., Kibler, J.E., and Corchary, G.S., 1983, Geology of nuclear test sites, Nevada Test Site, *in* U.S. Geological Survey Professional Paper 1375, p. 231-232.
- Tyler, L.D., 1981
see Zimmerman, R.M., et al., 1981
- Tyler, S.W., 1987a, Review of soil moisture flux studies at the Nevada Test Site, Nye County, Nevada: Desert Research Institute Report 45058 [DOE/NV/10384-17]
- Tyler, S.W., 1987b
see Russell, C.E., et al., 1987
- Tyler, S.W., 1988
see Hess, J.W., et al., 1988
- Tyler, S.W., 1991
see Lyles, B.F., et al., 1991
- Tyler, S.W., 1993a
see Detty, T.E., et al., 1993
- Tyler, S.W., 1993b
see Estrella, Rocio, et al., 1993
- Tyler, S.W., 1993c
see Ginanni, J.M., et al., 1993
- Tyler, S.W., 1994
see Albright, W., et al., 1994
- Tyler, S.W., and Jacobson, R.L., 1990, Soil moisture flux studies on the Nevada Test Site: a review of results and

techniques, in French, R.H., ed., *Hydraulics/hydrology of arid lands (H2AL)*: American Society of Civil Engineers, p. 718-724.

Tyler, S.W., McKay, W.A., Hess, J.W., Jacobson, R.L., and Taylor, K.C., 1986, Effects of surface collapse structures on infiltration and moisture redistribution: Desert Research Institute Report 45045 [DOE/NV/10384-04]

Tyler, S.W., McKay, W.A., and Mihevc, T.M., 1992, Assessment of soil moisture movement in nuclear subsidence craters: *Journal of Hydrology*, v. 139, no. 1/4, p. 159-181.

Unger, R.W., 1994, Evaluation of digital pressure sensors used to measure water levels at the Nevada Test Site, Nye County, Nevada, in Hollett, K.J., Wilbourn, S.L., and Latkovich, V.J., comps., *Proceedings of a U.S. Geological Survey workshop on the application and needs of submersible pressure sensors*, Denver, Colorado, June 7-10, 1994: U.S. Geological Survey Open-File Report 94-531, p. 41.

U.S. Army Engineer Waterways Experiment Station, Vicksburg, Miss., 1964, Project Sedan stability of crater slopes: U.S. Army Engineer Waterways Experiment Station Report AEWES-MISC-PAPER-3-662.

U.S. Atomic Energy Commission, 1973, Environmental monitoring report for the Nevada Test Site and other test areas used for underground nuclear detonations: January-December 1972, 1973, in *Environmental monitoring at major U.S. Atomic Energy Commission contractor sites, calendar year 1972*: U.S. Atomic Energy Commission Report WASH-1259, p.713-?

U.S. Atomic Energy Commission, 1973, Underground nuclear testing program, Nevada Test Site (Final environmental impact statement): U.S. Atomic Energy Commission, Division of Environmental Affairs Report EIS-NV-73-0798-F.

U.S. Dept. of Energy, 1986, Radionuclide Migration Program: Strategy document: U.S. Dept. of Energy Report NVO-298.

U.S. Dept. of Energy, 1988, Hydrology/Radionuclide Migration Program; FY 1988 plan: U.S. Dept. of Energy Report.

U.S. Dept. of Energy, 1993a, Groundwater protection management program plan for the DOE Nevada Field Office: U.S. Dept. of Energy, Nevada Field Office report.

U.S. Dept. of Energy, 1993b, Underground test area remedial investigation and feasibility study work plan, Nevada Test Site, Nevada, draft report: U.S. Department of Energy Report DOE/NV/10972-67.

U.S. Energy Research and Development Administration, 1977, Nevada Test Site, Nye County, Nevada: Final environmental impact statement: U.S. Energy Research and Development Administration Report ERDA-1551.

U.S. Environmental Protection Agency, 1976, Environmental monitoring report for the Nevada Test Site and other test areas used for underground nuclear detonations, January through December 1975: U.S. Environmental Protection Agency Report EMSL-LV-539-4.

U.S. Environmental Protection Agency. National Environmental Research Center, 1972, Environmental monitoring report for the Nevada Test Site: January-December 1971: National Environmental Research Center (Las Vegas, Nev.) Report NERC-LV-539-1.

U.S. Geological Survey, 1970a, Bibliography of published reports by U.S. Geological Survey personnel on the geology and hydrology of the Nevada Test Site, 1957-1969: U.S. Geological Survey Report 474-88 [NTS-220]

U.S. Geological Survey, 1970b, Geohydrology of the U20f emplacement chamber, Pahute Mesa, Nevada Test Site: U.S. Geological Survey Report 474-60 [Special Studies-82]

U.S. Geological Survey, 1971a, Field trip to Nevada Test Site: U.S. Geological Survey.

U.S. Geological Survey, 1971b, Geologic and hydrologic effects of the Handley event, Pahute Mesa, Nevada Test Site: U.S. Geological Survey Report USGS-474-95 [Special Studies-83]

U.S. Geological Survey, 1973, Geologic and hydrologic effects prediction and effects program, Almendro (U19v) event, Pahute Mesa, Nevada Test Site: U.S. Geological Survey . Report USGS-474-163 [Special Studies-92]

U.S. Geological Survey, 1974, Results of exploration of Baneberry site, early 1971: U.S. Geological Survey Report USGS-474-145 [NTS-235]

U.S. Geological Survey, 1976a, Explosion-induced fractures of selected announced underground nuclear tests, Yucca Flat, Nevada Test Site, Nevada, January--December 1974: U.S. Geological Survey Report 474-209 [NTS-258]

U.S. Geological Survey, 1976b, Field trip to Nevada Test Site: U.S. Geological Survey Open File Report 76-313.

U.S. Geological Survey, 1977, Bibliography of reports by U.S. Geological Survey personnel on the Nevada Test Site and related subjects, July 1, 1976 to June 30, 1977, with author and subject indexes: U.S. Geological Survey Report 474-254.

U.S. Geological Survey, 1978, Geological Survey investigations in connection with the Dining Car event, U12e.18 tunnel Rainier Mesa, Nevada Test Site, with a section on geological investigations, by S.G. Steele and G.M. Fairer and a section on geophysical investigations, by R.D. Carroll and M.J. Cunningham: U.S. Geological Survey Report USGS-474-246 [Area 12-49]

U.S. Geological Survey, 1979, U.S. Geological Survey investigations in connection with the Mighty Epic event, with a section on geologic investigations, by G.M. Fairer and D.R. Townsend, a section on geophysical logging and seismic investigations, by R.D. Carroll, M.J. Cunningham, and D.C. Mufler, a section on gravity survey--Rainier Mesa and U12n.10 tunnel, by D.L. Healey, and a section on in situ stress investigations, by W.L. Ellis: U.S. Geological Survey Report USGS-474-228 [Area 12-44]

U.S. Geological Survey, 1982, Geologic, geophysical and in situ stress investigations in the vicinity of the Dining Car chimney, Dining Car/Hybla Gold drifts, Nevada Test Site: U.S. Geological Survey Open-File Report 82-137.

U.S. Geological Survey, 1983a, Geohydrologic data and test results from Well J-13, Nevada Test Site, Nye County, Nevada: U.S. Geological Survey Water Resources Investigations Report 83-4171.

U.S. Geological Survey, 1983b, Geologic and geophysical investigations of Climax stock intrusive, Nevada: U.S. Geological Survey Open-File Report 83-377.

U.S. Geological Survey, 1984, A summary of geologic studies through January 1, 1983, of a potential high-level radioactive waste repository site at Yucca Mountain, southern Nye County, Nevada: U.S. Geological Survey Open-File Report 84-792.

U.S. Geological Survey, 1990, Composite post-shot surface effects map for Yucca Flat (Set of 3 maps): Scale 1:12,000.

U.S. Geological Survey, 1992, Ground-water data for the Nevada Test Site 1992, and for selected other areas in south-central Nevada, 1952-1992: U.S. Geological Survey Open-File Report 95-284.

U.S. Geological Survey, 1995, Ground-water data for the Nevada Test Site and selected other areas in south-central Nevada, 1992-1993: U.S. Geological Survey Open-File Report 95-160.

University of Wisconsin, Milwaukee, 1973. Earthquake data listing in the region of the Nevada Test Site, Department of Geological Sciences.

Vallikat, Vinod, 1993

see Pohlmann, K.F., et al., 1993

VanArsdale, R.B., 1992

see Gillson, R.G., et al., 1992

Van Camp, S.G., 1991

see Kroitoru, Levy, et al., 1991

Van Dreser, T., 1992

see Cranswick, Edward, et al., 1992

Van Werken, M.G., 1984

see Ander, H.D., et al., 1984

Vander Zouwen, D.E., Wagoner, J.L., and Younker, J.L., 1981, Identification of sources of alluvium by quartz grain shape analysis, Nevada Test Site, Nye County, Nevada: Abstracts with Programs--Geological Society of America, v. 13, no. 7, p. 572.

Vaniman, D.T., 1980

see Crowe, B.M., et al., 1980

Vaniman, D.T., 1982a

see Bish, D.L., et al., 1982

Vaniman, D.T., 1982b

see Broxton, D.E., et al., 1982

Vaniman, D.T., 1982c

see Daniels, W.R., et al., 1982a

Vaniman, D.T., 1982d

see Daniels, W.R., et al., 1982c

Vaniman, D.T., 1983

see Daniels, W.R., et al., 1983

Vaniman, D.T., 1984

see Ander, H.D., et al., 1984

Vaniman, D.T., 1990

see Bish, D.L., et al., 1990

Vaniman, D.T., Crowe, B.M., Gladney, E., Carr, W.I., and Fleck, R.J., 1980, Geology and petrology of the Crater Flat and related volcanic fields south-central Great Basin, Nevada [abs.]: Abstracts with Programs--Geological Society of America, v.12, no. 7, p. 540.

- Vega, R.G., 1995
see Sawyer, D.A., et al., 1995
- Verbeek, E.R., 1995
see Throckmorton, C.K., and Verbeek, E.R., 1995
- Vergino, E.S., 1986
see Glaser, R.E., et al., 1986
- Vergino, E.S., 1989
see Taylor, S.R., et al., 1989
- Vergino, E.S., Denny, M.S., and Taylor, S.R., 1986, Discrimination of NTS (Nevada Test Site) explosions and western United States earthquakes: Data processing: Lawrence Livermore National Laboratory Report UCID-20689.
- Vernon, F.L., 1989
see Gurrola, Harold, et al., 1989
- Viani, B.E., 1990
see Buchholtz-ten Brink, Marilyn, et al., 1990
- Viani, B.E., 1993
see Buchholtz-ten Brink, Marilyn, et al., 1993
- Vincelette, C.R., 1974
see Burchfiel, B.C., et al., 1974
- Vine, E.N., Aguilar, R.D., and Bayhurst, B.P., 1980, Sorption-desorption studies on tuff II: a continuation of studies with samples from Jackass Flats, Nevada and initial studies with samples from Jackass Flats, Nevada: Los Alamos Scientific Laboratory Report LA-8110-MS.
- Voegelé, M.D., 1985
see Hardin, E.L., et al., 1985
- Vogel, T.A., 1985
see Schuraytz, B.C., et al., 1985
- Vogel, T.A., 1987
see Schuraytz, B.C., et al., 1987
- Vollendorf, W.C., 1981a
see Smith, C., et al., 1981
- Vollendorf, W.C., 1981b
see Zimmerman, R.M., et al., 1981
- Vollendorf, W.C., 1982
see Zimmerman, R.M., and Vollendorf, W.C.
- Vollmer, A.T., 1986
see Rothermich, N.E. and Vollmer, A.T., 1986

- Vortman, L.J., 1991, Evaluation of the seismicity of the Nevada Test Site and vicinity: Yucca Mountain Site Characterization Project: Sandia National Laboratories Report SAND-86-7006.
- Vortman, L.J., and Long, J.W., 1982, Effects of repository depth on ground motion: the Pahute Mesa data: Sandia National Laboratories Report SAND-82-0174.
- Voss, C.F., 1981
see Heuze, F.E., et al., 1981
- Waddell, R.K., 1981, Modeling of regional ground-water flow near a potential nuclear-waste repository, Nevada Test Site and vicinity: Abstracts with Programs--Geological Society of America, v. 13, no. 7, p. 574.
- Waddell, R.F., 1982, Two-dimensional, steady-state model of ground-water flow, Nevada Test Site and vicinity, Nevada-California: U.S. Geological Survey Water-Resources Investigations Report 82-4085.
- Waddell, R.K., 1984a, Hydrology of Yucca Mountain and vicinity, Nevada-California: investigative results through mid-1983: U.S. Geological Survey Water-Resources Investigations Report 84-4267.
- Waddell, R.K., 1984b
see Czarnecki, J.B. and Waddell, R.K., 1984
- Waddell, R.K., 1985a, Hydrologic and drill-hole data for test wells UE-29A No. 1 and UE-29A No. 2, Fortymile Canyon, Nevada Test Site: U.S. Geological Survey Open-File Report 84-142.
- Waddell, R.K., 1985b
see Erickson, J.R., and Waddell, R.K., 1985
- Waddell, R.K., Cooley, R.L., and Tracy, J.V., 1981, Modeling of ground-water flow and solute transport at Nevada Test Site, in U.S. Geological Survey Professional Paper 1275, p. 181.
- Waddell, R.K., Robison, J.H., and Blankennagel, R.K., 1984, Hydrology of Yucca Mountain and vicinity, Nevada-California--investigative results through mid-1983: U.S. Geological Survey Water-Resources Investigations Report 84-4267.
- Waddell, S.J., 1984
see Thordarson, William, et al., 1984
- Waddell, S.J., 1985
see Thordarson, William, et al., 1985
- Waddell, S.J., 1992
see Ponce, D.A., et al., 1992
- Waddell, S.J., 1993
see Ponce, D.A., et al., 1993
- Wadleigh, W.F., 1970
see Ramspott, L.D., et al., 1970
- Wagner, R.A., 1992
see Gupta, I.N., et al., 1992

Wagoner, J.L., 1981a, Use of gamma logs to characterize and correlate alluvium in northern Yucca Flat, Nevada Test Site: Lawrence Livermore National Laboratory Report UCRL-86748.

Wagoner, J.L., 1981b
see Vander Zouwen, D.E., et al., 1981

Wagoner, J.L., 1985
see Elwood, Rebecca, et al., 1985

Wagoner, J.L., 1987, Making sense of the mixed alluvium in the Yucca Flat basin: Lawrence Livermore National Laboratory Report UCRL-96351.

Wagoner, J.L., 1991a, Problems in siting deep emplacement holes in northern Yucca Flat: Lawrence Livermore National Laboratory Report UCRL-JC-107002.

Wagoner, J.L., 1991b
see Garcia, A.A., et al., 1991

Wagoner, J.L., 1992a
see Boyd, O.S., et al., 1992

Wagoner, J.L., 1992b
see Hawkins, W.L., et al., 1992

Wagoner, J.L., 1992c
see Pawloski, G.A., et al., 1992

Wagoner, J.L. and Ramspott, L.D., 1981, Results of exploratory drill hole UE7ns, east-central Yucca Flat, Nevada Test Site: Lawrence Livermore National Laboratory Report UCID-18979.

Wagoner, J.L., and Richardson, W.W., 1986, Stratigraphic contacts from drill holes at the Nevada Test Site: Lawrence Livermore National Laboratory Report UCID-20790.

Wahl, R.R., 1969, An analysis of gravity data in Area 12, Nevada Test Site: U.S. Geological Survey Open-File Report.

Wahl, R.R., 1978
see Healey, D.L., et al., 1978

Wahl, R.R., 1979
see Healey, D.L., et al., 1979

Wahl, R.R., 1989
see Cole, J.C., et al., 1989

Wahl, R.R., 1993
see Minor, S.A., et al., 1993

Wahl, R.R., 1995
see Sawyer, D.A., et al., 1995

Walck, M.C., 1988, Modeling of anomalous ground motion observed at Jackass Flats, Nevada Test Site:

Seismological Research Letters, v. 59, no. 1, p. 31.

Walck, M.C., and Phillips, J.S., 1990, Two-dimensional velocity models for paths from Pahute Mesa and Yucca Flat to Yucca Mountain: Yucca Mountain Project: Sandia National Laboratories Report SAND-88-3033.

Walker, G.E., 1962a, Ground water in the Climax stock, Nevada Test Site, Nye County, Nevada: U.S. Geological Survey Open-File Report TEI-813.

Walker, G.E., 1962b
see Thordarson, William, et al., 1962

Walker, G.E., 1963
see Moore, J.E., et al., 1963

Walker, G.E. and Eakin, T.E., 1963, Geology and ground water of Amargosa Desert, Nevada-California: Nevada Department of Conservation and Natural Resources Ground-Water Resources Reconnaissance Report 14.

Walker, J.D., 1992
see Hodges, K.V., and Walker, J.D., 1992

Wallace, R.W., 1989
see Raymond, J.R., et al., 1989

Wallace, T.C., 1985
see Barker, J.S., et al., 1985

Walter, G.R., 1982, Theoretical and experimental determination of matrix diffusion and related solute transport properties of fractured tuffs from the Nevada Test Site: Los Alamos National Laboratory Report LA-9471-MS.

Walter, G.R., 1985, The effects of molecular diffusion on groundwater solute transport through fractured tuff: University of Arizona unpublished Ph.D. dissertation.

Walter, W.R., 1993a, Source parameters of the June 29, 1992 Little Skull Mountain earthquake from complete regional waveforms at a single station: Geophysical Research Letters, v. 20, no. 5, p. 403-406.

Walter, W.R., 1993b
see Mayeda, K., et al., 1993

Wang, J.S.Y., 1983
see Wollenberg, H.A., et al., 1983

Wang, J.S.Y., and Narsimhan, T.N., 1993, Unsaturated flow in fractured porous media, in Bear, J., Tsang, C.F., and de Marsily, G., eds., Flow and contaminant transport in fractured rock: Academic Press, p. 325-394.

Warpinski, N.R., 1988
see Teufel, L.W., and Warpinski, N.R., 1988

Warpinski, N.R., and Teufel, L.W., 1991, In situ stress measurements at Rainier Mesa, Nevada Test Site: Influence of topography and lithology on the stress state in tuff: International Journal of Rock Mechanics and Mining Sciences and Geomechanics Abstracts, v. 23, no. 213, p. 143-161.

Warren, C.T., 1973

- see Gonzalez, D.D., et al., 1973
- Warren, R.G., 1983a, Evidence for a tektosilicate structure and dominance of Fe(III) over Fe(II) in silicic volcanic glasses of the Nevada Test Site: Los Alamos National Laboratory Report LA-UR-83-874.
- Warren, R.G., 1983b, Geochemical similarities between volcanic units at Yucca Mountain and Pahute Mesa: Evidence for a common magmatic origin for volcanic sequences that flank the Timber Mountain Caldera: Los Alamos National Laboratory Report LA-UR-83-2229.
- Warren, R.G., 1983c, Geochemical similarities between volcanic units at Yucca Mountain and Pahute Mesa: Evidence for a common magmatic origin for volcanic sequences that flank the Timber Mountain Caldera: EOS, Transactions, American Geophysical Union, v. 64, no. 45, p. 896.
- Warren, R.G., 1984
see Ander, H.D., et al., 1984
- Warren, R.G., 1990
see Sawyer, D.A., et al., 1990
- Warren, R.G., 1993a
see Cole, J.C., et al., 1993a
- Warren, R.G., 1993b
see Minor, S.A., et al., 1993
- Warren, R.G., 1994a
see Ferguson, J.G., et al., 1994
- Warren, R.G., 1994b
see Sawyer, D.A., et al., 1994
- Warren, R.G., 1995
see Sawyer, D.A., et al., 1995
- Warren, R.G., Byers, F.M., Jr., and Caporuscio, F.A., 1984, Petrography and mineral chemistry of units of the Topopah Spring, Calico Hills and Crater Flat tuffs, and older volcanic units, with emphasis on samples from drill hole USW G-1, Yucca Mountain, Nevada Test Site: Los Alamos National Laboratory Report LA-10003-MS.
- Warren, R.G., Byers, F.M., Jr., and Orkild, P.P., 1985, Post-Silent Canyon Caldera structural setting for Pahute Mesa, in Olsen, C.W., and Donohue, M.L., eds., Proceedings of the Third symposium on containment of underground nuclear explosions, v.2: Lawrence Livermore National Laboratory Report CONF-850953, p. 3-30.
- Warren, R.G., McDowell, F.W., Byers, F.M., Jr., Broxton, D.E., Carr, W.J., and Orkild, P.P., 1988, Episodic leaks from Timber Mountain Caldera: New evidence from rhyolite lavas of Fortymile Canyon, SW Nevada volcanic field [abs.]: Abstracts with Programs--Geological Society of America, v. 20, no. 3, p. 241.
- Warren, R.G., Sawyer, D.A., and Covington, H.R., 1989, Revised volcanic stratigraphy of the southwestern Nevada volcanic field [abs.], in Olsen, C.W., and Carter, J.A., eds., Proceedings of the fifth symposium on containment of underground nuclear explosions, vol. 2: NTIS Report CONF-8909163, p. 387.
- Warren, W.E., 1981
see Smith, C., et al., 1981

- Washburn, A.L., 1966
see Hunt, C.B., et al., 1966
- Washington, C.L., 1973
see Gonzalez, D.D., et al., 1973
- Watwood, D., 1991
see Lin, Wunan, et al., 1991
- Weaver, T.A., 1981
see Edwards, C.L., et al., 1981
- Weaver, T.A., 1983
see Edwards, C.L., et al., 1983
- Webring, M.W., 1981
see Kane, M.F., et al., 1981
- Webster, G.D., 1995
see Titus, A.L., et al., 1995
- Weed, H.C., 1978
see MacLean, S.C., et al., 1978
- Weed, H.C., 1979a
see Coles, D.G., et al., 1979
- Weed, H.C., 1979b
see Ramspott, L.D., et al., 1979
- Weed, H.C., 1980
see Coles, D.G., et al., 1980
- Weed, H.C., Jackson, D.D., and Koskinas, G., 1976, The distribution of radioactivity between rock materials and water at Nevada Test Site: EOS, Transactions, American Geophysical Union, v. 57, no. 12, p. 1016.
- Weeks, E.P., 1984, Field tests of flow in unsaturated alluvium, *in* Schneider, R., and Trask, N.J., 1984, U.S. Geological Survey research in radioactive waste disposal: Fiscal year 1982: U.S. Geological Survey Water-Resources Investigations Report 84-4205, p. 69-70.
- Weeks, E.P., 1988
see Montazer, Parviz, et al., 1988
- Weeks, E.P., 1990
see Thorstenson, D.G., et al., 1990
- Weeks, E.P., and Wilson, W.E., 1984, Preliminary evaluation of hydrologic properties of cores of unsaturated tuff, test well USW H-1, Yucca Mountain, Nevada: U.S. Geological Survey Water-Resources Investigations Report 84-4193.
- Weir, J.E., 1966
see Blankennagel, R.K., and Weir, J.E., 1966

- Weir, J.E., 1967, Geologic and hydrologic reconnaissance of the emplacement chamber U19c, Pahute Mesa, Nevada Test Site: U.S. Geological Survey Technical Letter Special Studies-I-53.
- Weir, J.E., 1968
see Rogers, C.L., et al., 1968
- Weir, J.E., 1972
see Blankennagel, R.K. and Weir, J.E., Jr., 1972
- Weir, J.E., 1973
see Blankennagel, R.K. and Weir, J.E., Jr., 1973
- Weir, J.E., 1979a
see Dinwiddie, G.A., and Weir, J.E., Jr., 1979
- Weir, J.E., 1979b
see Hoover, D.B., et al., 1979
- Weir, J.E., Jr., and Hodson, J.N., 1979, Geohydrology of hole UE-17a, Syncline Ridge area, Nevada Test Site: U.S. Geological Survey Report USGS-1543-4.
- Weir, J.E., Jr., and Nelson, J.W., 1976, Operation and maintenance of a deep-well water-level measurement device, the "Iron Horse": U.S. Geological Survey Water-Resources Investigations Report 76-27.
- Weir, S.T., 1994
see Erskine, D.J., et al., 1994
- Wells, S.G., McFadden, L.D., Renault, C.E., and Crowe, B.M., 1990, Geomorphic assessment of late Quaternary volcanism in the Yucca Mountain area, southern Nevada: Implications for the proposed high-level radioactive waste repository: *Geology*, v. 18, p. 549-553.
- Wells, S.G., McFadden, L.D., Renault, C.E., and Crowe, M.B., 1991, Geomorphic assessment of late Quaternary volcanism in the Yucca Mountain area, southern Nevada: Implications for the proposed high-level radioactive waste repository: Reply: *Geology*, v. 19, no. 6, p. 661-662.
- Wells, S.G., McFadden, L.D., Renault, C., Turrin, B.D., and Crowe, B.M., 1988, A geomorphic assessment of Quaternary volcanism in the Yucca Mountain area, Nevada Test Site, southern Nevada: Abstracts with Programs--Geological Society of America, v. 20, no. 3, p. 242.
- Wen, J., and McMechan, G.A., 1984, Application of three-dimensional kinematic imaging to analysis of seismic reflection data from the Nevada Test Site: *Bulletin of the Seismological Society of America*, v. 74, no. 6, p. 2187-2199.
- Wernicke, Brian, Axen, G.J., and Snow, J.K., 1988, Basin and Range extensional tectonics at the latitude of Las Vegas: *Geological Society of America Bulletin*, v. 100, p. 1738-1757.
- West, L.R., 1962
see Winograd, I.J., and West, L.R., 1962
- West, S.W., 1969, Hydrologic considerations: in *Technical discussions of offsite safety programs for underground nuclear detonations*: U.S. Geological Survey Report NVO-40 Rev. 2, Ch. 6, p. 61-67.

- Westenburg, C.L., 1994
see La Camera, R.J., and Westenburg, C.L., 1994
- Wethern, L.J., 1993
see Nakanish, K.K., et al., 1993
- Wheatcraft, S.W., 1986
see Burbey, T.J., and Wheatcraft, S.W., 1986
- Wheatcraft, S.W., 1994
see Ross, W.C., and Wheatcraft, S.W., 1994
- Wheatcraft, S.W., and Burbey, T.J., 1984, Numerical modeling of the tritium breakthrough at the Cambric site, Nevada Test Site: Abstracts with Programs--Geological Society of America, v. 16, no. 6, p. 691.
- Wheeler, M.L., Ng, H.S., and Logan, S.E., 1982, Selection of a simulation model for analysis of radionuclide migration at the RNM experiment site, Nevada Test Site, Nevada: Los Alamos Technical Associates Report LATA-LSL-29-01.
- Whitbeck, M.R., 1988
see Kingston, W.L., et al., 1988
- Whitbeck, M.R., 1992
see Case, C.M., et al., 1992
- Whitcomb, H.A., 1964
see Blankennagel, R.K., et al., 1964
- White, A.F., 1979a, Geochemistry of ground water associated with tuffaceous rocks, Oasis Valley, Nevada: U.S. Geological Survey Professional Paper 712-E, p. E1-E25.
- White, A.F., 1979b
see Claassen, H.C., and White, A.F., 1979
- White, A.F., 1981, Controls on isotopic compositions in ground-water systems in southern Nevada [abs.]: EOS, Transactions, American Geophysical Union, v. 62, no. 17, p. 286.
- White, A.F., Claassen, H.C., and Benson, L.V., 1980, The effect of dissolution of volcanic glass on the water chemistry in a tuffaceous aquifer, Rainier Mesa, Nevada: U.S. Geological Survey Water-Supply Paper 1535-Q.
- White, A.F. and Chuma, N.J., 1987, Carbon and isotope mass balance models of Oasis Valley - Fortymile Canyon groundwater basin, southern Nevada: Water Resources Research, vol. 23, no. 4, p. 571-582.
- Whitfield, M.S., 1983
see Lobmeyer, D.H., et al., 1983
- Whitfield, M.S., 1984
see Lahoud, R.G., et al., 1984
- Whitfield, M.S., Thordarson, William, and Eshom, E.P., 1984, Geohydrologic and drill-hole data for test well USW H-4, Yucca Mountain, Nye County, Nevada: U.S. Geological Survey Open-File Report 84-449.

Whitfield, M.S., Eshom, E.P., Thordarson, William, and Schaefer, D.H., 1985, Geohydrology of rocks penetrated by the test well USW H-4, Yucca Mountain, Nye County, Nevada: U.S. Geological Survey Water-Resources Investigations Report 85-4030.

Whitney, J.W., 1992

see O'Neill, J.M., et al., 1992

Whitney, J.W., 1994

see Pezzopane, S.K., et al., 1994

Whitney, J.W., and Harrington, C.D., 1993, Relict colluvial boulder deposits as paleoclimatic indicators in the Yucca Mountain region, southern Nevada: Geological Society of America Bulletin, v. 105, no. 8, p. 1008-1018.

Whitney, J.W., and Shroba, R.R., 1991, Geomorphic assessment of late Quaternary volcanism in the Yucca Mountain area, southern Nevada: Implications for the proposed high-level radioactive waste repository: Comment: Geology (Boulder), v. 19, no. 6, p. 661.

Whitney, Rita, 1995

see Clary, S.L., et al., 1995

Wilcox, R.E., 1959

see Diment, W.H., et al., 1959

Wilcox, R.E., 1960

see Wilmarth, V.R., et al., 1960

Wilder, D.G., 1987, Influence of stress-induced deformations on observed water flow in fractures of the Climax granitic stock, in Farmer, I.W., Daemen, J.J.K., Desai, C.S., Glass, C.E., and Neuman, S.P., eds., Rock mechanics: Proceedings of the 28th U.S. symposium: Proceedings--Symposium on Rock Mechanics, v. 28, p. 491-499.

Wilder, D.G., and Patrick, W.C., 1981, Geotechnical status report for test storage of spent reactor fuel in Climax granite, Nevada Test Site: Bulletin of the Association of Engineering Geologists, v. 18, no. 4, p. 355-367.

Wilder, D.G., and Yow, J.L., 1981, Fracture mapping at the spent fuel test-Climax: Lawrence Livermore National Laboratory Report UCRL-53201.

Wilder, D.G., and Yow, J.L., 1984, Structural geology report: spent fuel test-Climax Nevada Test Site: Lawrence Livermore National Laboratory Report UCRL-53381.

Wilder, D.G., and Yow, J.L., 1985, Evaluation of characterization techniques, Climax stock, spent fuel test; Climax, Nevada Test Site, in Tilford, N.R., chairperson, Site selection, characterization, and design exploration: Annual Meeting--Association of Engineering Geologists, v. 28, p. 79.

Wilder, D.G., and Yow, J.L., 1987, Effectiveness of geologic characterization techniques, Climax granitic stock, Nevada Test Site: Bulletin of the Association of Engineering Geologists, v. 24, no. 4, p. 537-548.

Wilder, D.G., Yow, J.L., and Thorpe, R.K., 1982, Spent fuel test-Climax: Core logging for site investigation and instrumentation: Lawrence Livermore National Laboratory Report UCID-19646.

Wilhams, W.P., 1964

see McKay, E.J., and Wilhams, W.P., 1964

Williams, V.S., 1995

see Swadley, W.C., et al., 1995

Williams, V.S., Covington, H.R., and Simonds, F.W., 1986, Computer assisted analysis of geology beneath the valley-fill alluvium, Yucca Flat, Nevada Test Site [abs.]: Abstracts with Programs--Geological Society of America, v. 18, no. 2, p. 199.

Williams, W.P., 1968

see Fernald, A.T., et al., 1968

Williams, W.P., 1983

see Dixon, G.L., et al., 1983

Williams, W.P., Emerick, W.L., Davis, R.E., and Snyder, R.P., 1963, U.S. Geological Survey investigations in Yucca Flat, Nevada Test Site, part 6: The underground test media of Yucca Flat: U.S. Geological Survey Technical Letter NTS-45.

Williamson, M.M., 1965

see Nordyke, M.D., and Williamson, M.M., 1965

Willis, D.E., 1973

see Buje, C.G., et al., 1973

Wilmarth, V.R., 1959a, Effects of underground nuclear explosions on tuff at Nevada Test Site [abs.]: Geological Society of America Bulletin, v. 70, no. 12, pt. 2, p. 1700.

Wilmarth, V.R., 1959b

see Diment, W.H., et al., 1959

Wilmarth, V.R., 1959c

see McKeown, F.A., and Wilmarth, V.R., 1959

Wilmarth, V.R., 1960

see Bunker, C.M., et al., 1960

Wilmarth, V.R., 1961

see Schoff, S.L., and Wilmarth, V.R., 1961

Wilmarth, V.R., Botinelly, Theodore, and Wilcox, R.E., 1960a, Alteration of tuffs by Rainier underground nuclear explosion, Nevada Test Site, Nye County, Nevada, in Geological Survey Research 1960: U.S. Geological Survey Professional Paper 400-B, p. B149-B151.

Wilmarth, V.R., Healey, D.L., Clebsch, Alfred, Jr., Winograd, I.J., Zeitz, Isidore, and Oliver, H.W., 1960b, A summary interpretation of geologic, hydrologic and geophysical data for Yucca Valley, Nevada Test Site, Nye County, Nevada: U.S. Geological Survey Open-File Report TEI-358.

Wilmarth, V.R., and McKeown, F.A., 1960, Structural effects of Rainier, Logan, and Blanca underground nuclear explosions, Nevada Test Site, Nye County, Nevada, in Geological Survey Research 1960: U.S. Geological Survey Professional Paper 400-B, p. B418-B423.

Wilmarth, V.R., McKeown, F.A., and Dobrovolsky, Ernest, 1962, Preliminary report on engineering geology of thirteen tunnel sites, Nevada Test Site: U.S. Geological Survey Open-File Report [TEM-773]

Wilson, W.E., 1984a, Nevada Test Site and vicinity: Hydrology, *in* Schneider, R., and Trask, N.J., U.S. Geological Survey research in radioactive waste disposal: Fiscal year 1982: U.S. Geological Survey Water-Resources Investigations Report 84-4205, p. 28-31.

Wilson, W.E., 1984b

see Montazer, Parviz, and Wilson, W.E., 1984

Wilson, W.E., 1984c

see Weeks, E.P., and Wilson, W.E., 1984

Wilson, W.E., 1993

see Czarnecki, J.B. and Wilson, W.E., 1993

Wilson, W.E., Dixon, G.L., and Glanzman, V.M., 1982, U.S. Geological Survey investigations of volcanic rocks at the Nevada Test Site for disposal of nuclear waste: Abstracts with Programs--Geological Society of America, v. 14, no. 6, p. 354.

Winograd, I.J., 1959

see Wilmarth, V.R., et al., 1959

Winograd, I.J., 1960

see Wilmarth, V.R., et al., 1960

Winograd, I.J., 1961

see Schoff, S.L., and Winograd, I.J., 1961

Winograd, I.J., 1962a, Interbasin movement of ground water at the Nevada Test Site [abs.]: Geological Society of America Special Paper 68, p. 300-301.

Winograd, I.J., 1962b, Interbasin movement of ground water at the Nevada Test Site, Nevada, in Geological Survey Research 1962: U.S. Geological Survey Professional Paper 450-C, p. C108-C111 [TEI-807]

Winograd, I.J., 1962c

see Schoff, S.L., and Winograd, I.J., 1962

Winograd, I.J., 1963a, A summary of the ground-water hydrology of the area between the Las Vegas Valley and the Amargosa Desert, Nevada: U.S. Geological Survey Open-File Report [TEI-840]

Winograd, I.J., 1963b

see Hale, W.E., et al., 1963

Winograd, I.J., 1965

see Eakin, T.E., and Winograd, I.J., 1965

Winograd, I.J., 1967

see Thordarson, William, et al., 1967

Winograd, I.J., 1970, Noninstrumental factors affecting measurement of static water level in deeply buried aquifers and aquitards, Nevada Test Site: Ground Water, v. 8, no. 2, p. 19-28.

Winograd, I.J., 1971a, Hydrogeology of ash flow tuff--a preliminary statement: Water Resources Research, v. 7, no. 4, p. 994-1006.

- Winograd, I.J., 1971b, Origin of major springs in the Amargosa Desert of Nevada and Death Valley California: University of Arizona unpublished Ph.D. dissertation.
- Winograd, I.J., 1991, Paleoclimatology and paleohydrology of the southern Great Basin, *in* Trask, N.J., and Stevens, P.R., comps., U.S. Geological Survey research in radioactive waste disposal: Fiscal years 1986-1990: U.S. Geological Survey Water-Resources Investigations Report 91-4084, p. 5-7.
- Winograd, I.J., and Doty, G.C., 1980, Paleohydrology of the southern Great Basin with special reference to water table fluctuations beneath the Nevada Test Site during the late(?) Pleistocene: U.S. Geological Survey Open-File Report 80-569.
- Winograd, I.J., and Pearson, F.J., Jr., 1976, Major carbon-14 anomaly in a regional carbonate aquifer: Possible evidence for megascale channeling, south central Great Basin: *Water Resources Research*, v. 12, no. 6, p. 1125-1143.
- Winograd, I.J., and Szabo, B.J., 1988, Water-table decline in the south-central Great Basin during the Quaternary: Implications for toxic waste disposal, *in* Carr, M.D., and Yount, J.C., eds., *Geologic and hydrologic investigations of a potential nuclear waste disposal site at Yucca Mountain, southern Nevada*: U.S. Geological Survey Bulletin 1790, p. 147-152.
- Winograd, I.J. and Thordarson, William, 1968, Structural control of ground-water movement in miogeosynclinal rocks of south-central Nevada, *in* Eckel, E.B., ed., *Nevada Test Site*, Geological Society of America Memoir 110, p. 35-48.
- Winograd, I.J., and Thordarson, William, 1975, Hydrogeologic and hydrochemical framework, south-central Great Basin, Nevada-California, with special reference to the Nevada Test Site: U.S. Geological Survey Professional Paper 712-C, p. C1-C126.
- Winograd, I.J., Thordarson, William, and Young, R.A., 1971, Hydrology of the Nevada Test Site and vicinity, southeastern Nevada: U.S. Geological Survey Open-File Report.
- Winograd, I.J., and West, L.R., 1962, Preliminary tracer experiment to demonstrate hydraulic continuity between water wells C and C-1, Yucca Flat, Nevada Test Site: U.S. Geological Survey Technical Letter NTS-20.
- Winograd, I.J., and Young, R.A., 1965, Hydrologic maps of the Nevada Test Site: U.S. Geological Survey Technical Letter NTS-130.
- Wire, J.C., 1964
see Saucier, R.T., and Wire, J.C., 1964
- Wireman, D.L., 1977
see Essington, E.H., et al., 1977
- Wolfsberg, Kurt, 1978a, Sorption-desorption studies of Nevada Test Site alluvium and leaching studies of nuclear test debris: Los Alamos Scientific Laboratory Report LA-7216-MS.
- Wolfsberg, Kurt, 1978b
see Daniels, W.R., et al., 1978
- Wolfsberg, Kurt, 1978c
see Erdal, B.R., et al., 1978a
- Wolfsberg, Kurt, 1978c

- see Erdal, B.R., et al., 1978b
- Wolfsberg, Kurt, 1980
see Johnstone, J.K., and Wolfsberg, Kurt, 1980
- Wolfsberg, Kurt, 1981
see Daniels, W.R., and Wolfsberg, Kurt, 1981
- Wolfsberg, Kurt, 1982a
see Daniels, W.R., et al., 1982a
- Wolfsberg, Kurt, 1982b
see Daniels, W.R., et al., 1982b
- Wolfsberg, Kurt, 1982c
see Daniels, W.R., et al., 1982c
- Wolfsberg, Kurt, 1983
see Hoffman, D.C., et al., 1983
- Wolfsberg, Kurt, 1987
see Norris, A.E., et al., 1987
- Wolfsberg, Kurt, 1988
see Ogard, A.E., et al., 1988
- Wolfsberg, Kurt, Aguilar, R.D., and Bayhurst, B.P., 1981, Sorption-desorption studies on tuff III: A continuation of studies with samples from Jackass Flats and Yucca Mountain, Nevada: Los Alamos Scientific Laboratory Report LA-8747-MS.
- Wolfsberg, Kurt, Bayhurst, B.P., Crowe, B.M., Daniels, W.R., Erdal, B.R., Lawrence, F.O., Norris, A.E., and Smyth, J.R., 1979, Sorption-desorption studies on tuff-I: Initial studies with samples from the J-13 drill site, Jackass Flats, Nevada: Los Alamos Scientific Laboratory Report LA-7480-MS.
- Wolfsberg, Kurt, Daniels, W.R., Hoffman, D.C., and Erdal, B.R., 1980, Migration of radionuclides in geologic media: Laboratory and field studies, *in* Kelly, J.J., ed., Effluent and environmental radiation surveillance: A symposium sponsored by ASTM Committee D-22 on methods of sampling and analysis of atmospheres and Committee D-19 on water: American Society for Testing and Materials Special Publication no. 698, p. 252-254.
- Wollenberg, H.A., 1992
see Flexser, Steve, and Wollenberg, H.A., 1992
- Wollenberg, H.A., Wang, J.S.Y., and Korbin, G., 1983, Appraisal of nuclear waste isolation in the vadose zone in arid and semiarid regions (with emphasis on the Nevada Test Site): Lawrence Berkeley Laboratory Report LBL-15010.
- Wollitz, L.E., 1969
see Garber, M.S. and Wollitz, L.E., 1969
- Wollitz, L.E., 1971
see Dudley, W.W., et al., 1971

- Wood, D.B., 1992, Ground-water data collected at the Nevada Test Site and vicinity, Nye County, Nevada, water years 1988-89: U.S. Geological Survey Open-File Report 92-130.
- Woods, B.B., and Harkrider, D.G., 1995, Determining surface-wave magnitudes from regional Nevada Test Site data: *Geophysical Journal International*, v. 120, no. 2, p. 474-498.
- Woods, R.T., 1974
see Fleischer, R.L., et al., 1974
- Woodward, J.C., 1990
see Thorstenson, D.G., et al., 1990
- Woolfenden, L.R., 1984
see Langer, W.H., et al., 1984
- Worley, D.M., 1992
see Cranswick, Edward, et al., 1992
- Worley, D.M., 1993
see Meremonte, M.E., et al., 1993
- Worts, G.F., Jr., 1963, Effect of ground-water development on the pool level in Devils Hole, Death Valley National Monument, Nye County, Nevada: U.S. Geological Survey Open-File Report 63-142.
- Wruble, D.T. and McDowell, E.M., 1990, Nevada Test Site annual environmental report - 1989: U.S. Dept. of Energy Report DOE/NV/10630-11.
- Wuollet, G.M., 1977a
see Navarro, Richard, et al., 1977
- Wuollet, G.M., 1977b
see Rogers, A.M., et al., 1977
- Wyman, R.V., 1988, Geology of the Nevada Test Site, in Weide, D.L., and Faber, M.L., eds., *This extended land; geological journeys in the southern Basin and Range*: University of Nevada, Las Vegas, Dept. of Geoscience, p. 223-224.
- Yang, I.C., 1993
see Mower, T.E., et al., 1993
- Yard, S.N., 1988
see Montazer, Parviz, et al., 1988
- Young, R.A., 1962
see Meyer, G.L., and Young, R.A., 1962
- Young, R.A., 1963a, Drilling and well-testing problems in investigations of deep aquifers at Nevada Test Site, Mercury, Nevada, in *Eleventh symposium on exploration drilling*: Colorado School of Mines Quarterly, v. 58, no. 4, p. 83-91.
- Young, R.A., 1963b
see Moore, J.E., et al., 1963

- Young, R.A., 1964
see Blankennagel, R.K., et al., 1964
- Young, R.A., 1965a, Records of well and test holes drilled at the Nevada Test Site and vicinity since 1960: U.S. Geological Survey Technical Letter NTS-117.
- Young, R.A., 1965b
see Winograd, I.J., and Young, R.A., 1965
- Young, R.A., 1967
see Thordarson, William, et al., 1967
- Young, R.A., 1969a, Water supply for the Nuclear Rocket Development Station at the U.S. Atomic Energy Commission's Nevada Test Site: U.S. Geological Survey Open-File Report.
- Young, R.A., 1969b
see Robinson, B.P., et al., 1969
- Young, R.A., 1971
see Winograd, I.J., et al., 1971
- Young, R.A., 1972a, Water supply for the Nuclear Rocket Development Station at the U.S. Atomic Energy Commission's Nevada Test Site: U.S. Geological Survey Water-Supply Paper 1938.
- Young, R.A., 1972b
see Winograd, I.J., et al., 1972
- Yunker, L.W., 1981
see Vander Zouwen, D.E., et al., 1981
- Yunker, L.W., 1985
see Schuraytz, B.C., et al., 1985
- Yunker, L.W., 1987
see Schuraytz, B.C., et al., 1987
- Yount, J.C., 1988
see Rodriguez, E.A., and Yount, J.C., 1988
- Yount, J.C., Shroba, R.R., McMasters, C.R., Huckins, H.E., and Rodriguez, E.A., 1987, Trench logs from a strand of the Rock Valley fault system, Nevada Test Site, Nye County, Nevada: U.S. Geological Survey Miscellaneous Field Studies Map MF-1824.
- Yow, J.L., Jr., 1981
see Wilder, D.G., and Yow, J.L., Jr., 1981
- Yow, J.L., Jr., 1982
see Wilder, D.G., et al., 1982
- Yow, J.L., 1984a, Geologic structure mapping database spent fuel test-Climax, Nevada Test Site: Lawrence Livermore National Laboratory Report UCID-20301.

- Yow, J.L., 1984b
see Wilder, D.G., and Yow, J.L., 1984
- Yow, J.L., 1985
see Wilder, D.G., and Yow, J.L., 1985
- Yow, J.L., 1987
see Wilder, D.G., and Yow, J.L., 1987
- Zablocki, C.J., 1979, Some reconnaissance-type electrical surveys of Timber Mountain Caldera, Nye County, Nevada: U.S. Geological Survey Open-File Report 79-1695.
- Zandt, George, Jarpe, S.P., and Benz, H.M., 1990, NTS seismic yield experiment: Rubble zone imaging: Seismological Research Letters, v. 61, no. 1, p. 11-12.
- Zeitler, P.K., 1994
see Ratcliff, C.D., et al., 1994
- Zeitz, Isidore, 1959
see Wilmarth, V.R., et al., 1959
- Zeitz, Isidore, 1960
see Wilmarth, V.R., et al., 1960
- Zeitz, Isidore, 1962
see Allingham, J.W., and Zeitz, Isidore, 1962
- Zielinski, R.A., and Rosholt, J.N., 1978, Uranium in waters and aquifer rocks at the Nevada Test Site, Nye County, Nevada: Journal of Research of the U.S. Geological Survey, v. 6, no. 4, p. 489-498.
- Zimmerman, R.M., 1982, Issues related to field testing in tuff, in Goodman, R.E., and Heuze, F.E., eds., Issues in rock mechanics: Proceedings--symposium on rock mechanics, v. 23, p. 872-880.
- Zimmerman, R.M., Nimick, F.B., and Board, M.P., 1985, Geoengineering characterization of welded tuffs from laboratory and field investigations, in Jantzen, C.M., Stone, J.A., and Ewing, R.C., eds., Scientific basis for nuclear waste management VIII: Materials Research Society Symposia Proceedings, v. 44, p. 547-554.
- Zimmerman, R.M., and Vollendorf, W.C., 1982, Geotechnical field measurements: G-tunnel, Nevada Test Site: Sandia National Laboratories Report SAND-81-1971.
- Zimmerman, R.M., Vollendorf, W.C., and Tyler, L.D., 1981, Tuff rock mechanics testing in G-tunnel at Nevada Test Site: Sandia National Laboratories Report SAND-81-2166A.
- Zimmerman, R.W., Kumar, S., and Bodvarsson, G.S., 1991, Fluid flow in rough-walled fractures, in Gomberg, J.S., ed., U.S. Geological Survey Committee for the Advancement of Science in the Yucca Mountain Project, symposium on fractures, hydrology, and Yucca Mountain; abstracts and summary: U.S. Geological Survey Open-File Report 91-125, p. 28.
- Zirzow, J.A., 1982
see Price, R.H., et al., 1982
- Zoback, M.D., 1982

- see Healy, J.H., et al., 1982
- Zoback, M.D., 1984
see Healy, J.H., et al., 1984
- Zoback, M.D., 1995
see Barton, C.A., et al., 1995
- Zohdy, A.A.R. and Bisdorf, R.J., 1979, Schlumberger soundings and geoelectric cross sections in Yucca Lake, Nevada Test Site, Nevada: U.S. Geological Survey Open-File Report 79-220.
- Zucca, J.J., 1993
see Goldstein, Peter, et al., 1993
- Zucca, J.J., 1994
see Jarpe, S., et al., 1994
- Zukosky, K.A., 1994
see Blout, D.O., et al., 1994
- Zumberge, M.A., Harris, R.N., Oliver, H.W., Sasagawa, G.S., and Ponce, D.A., 1988, Preliminary results of absolute and high-precision gravity measurements at the Nevada Test Site and vicinity: U.S. Geological Survey Open-File Report 88-242.

AMARGOSA DESERT

Akers, J.P., 1974
Bateman, R.L., et al., 1974
Bedinger, M.S., et al., 1989a
Bedinger, M.S., et al., 1989b
Carr, W.J., 1988a
Carson, R.L., 1980
Claassen, H.C., 1982
Claassen, H.C., 1983
Claassen, H.C., 1984
Claassen, H.C., 1985
Claassen, H.C., 1986
D'Agnese, F.A., 1994
Elliot, Bertrand, 1982
Grove, D.B., 1971
Healey, D.L., and Miller, C.H., 1971
Healey, D.L., et al., 1978
Hess, J.W., and Jacobson, R.L., 1984
Huber, N.K., 1988
Johnston, R.H., 1968
Kilroy, K.C., 1991
Larson, J.D., 1974a
Larson, J.D., 1974b
Larson, J.D., 1975
Loeltz, O.J., 1960
Lyles, B.F., and Mihevc, T.M., 1994
Moench, R.H., 1965
Nichols, W.D., and Akers, J.P., 1985
Osterkamp, W.R., et al., 1994
Robinson, B.P., and Beetem, W.A., 1975
Szabo, B.J., and O'Malley, P.A., 1985
Walker, G.E., and Eakin, T.E., 1963
Winograd, I.J., 1963a
Winograd, I.J., 1971b
Worts, G.F., Jr., 1963

AQUIFERS/HYDROSTRATIGRAPHIC UNITS

Anderson, R.E., and Barnhard, T.P., 1991
Barton, C.A., et al., 1995
Bateman, R.L., et al., 1972
Bateman, R.L., et al., 1974
Bedinger, M.S., et al., 1984
Bedinger, M.S., et al., 1989a
Bedinger, M.S., et al., 1989b
Benson, L.V., 1976
Benson, L.V., et al., 1983
Blankennagel, R.K., et al., 1964
Clebsch, Alfred, Jr., 1960
Clebsch, Alfred, Jr., and Baker, F.B., 1960
Cogbill, A.H., et al., 1989

Coles, D.G., and Ramspott, L.D., 1982
Copenhaver, S.A., et al., 1990
Daily, W.D., et al., 1985
Daily, W.D., et al., 1986
Daily, W.D., et al., 1987
Dale, D.A., and Seaber, P.R., 1993
Dettinger, M.D., 1989a
Dettinger, M.D., et al., 1995
Detty, T.E., et al., 1993
Doty, G.C., and Thordarson, William, 1983
Dudley, W.W., et al., 1971
Eakin, T.E., and Winograd, I.J., 1965
Fenske, P.R., 1978
Galloway, Devin, 1986
Garber, M.S., and Wollitz, L.E., 1969
Grove, D.B., and Beetem, W.A., 1971
Grove, D.B., et al., 1969
Hale, W.E., et al., 1963
Hanson, J.M., 1984
Hanson, J.M., 1985
Harrill, J.R., et al., 1988
IT Corporation, in preparation e
Lacznia, R.J., et al., 1996
Leap, D.I., 1982
Leap, D.I., and Mai, P.A., 1985
Lin, Wunan, 1978
O'Hagan, M.D., and Lacznia, R.J., 1966
Prudic, D.E., et al., 1995
Robinson, B.P., and Beetem, W.A., 1975
Schoff, S.L., and Winograd, I.J., 1962b
Schroeder, N.C., et al., 1992
White, A.F., et al., 1980
Winograd, I.J., and Pearson, F.J., Jr., 1976
Zielinski, R.A., and Rosholt, J.N., 1978

AREA 2

Ballou, L.B., 1979a
Ballou, L.B., et al., 1984

AREA 25, INCLUDING YUCCA MOUNTAIN

Anderson, L.A., 1981
Baldwin, M.J., and Jahren, C.E., 1982
Barker, C.E., 1994
Barker, C.E., 1995
Benson, L.V., and Kleiforth, H., 1989
Benson, L.V., and McKinley, P.W., 1985
Benson, L.V., et al., 1983
Bentley, C.B., 1984
Bentley, C.B., et al., 1983
Bish, D.L., 1981

AREA 25 (continued)

- Bish, D.L., et al., 1982
Blanton, J.O., 1992
Boucher, M.S., 1994a
Boucher, M.S., 1994b
Broxton, D.E., et al., 1982
Carr, W.J., 1984a
Carroll, P.I., et al., 1981
Christiansen, R.L., and Lipman, P.W., 1966
Copenhaver, S.A., et al., 1992
Craig, R.W., and Johnson, K.A., 1984
Craig, R.W., and Reed, R.L., 1991
Craig, R.W., and Robison, J.H., 1984
Craig, R.W., et al., 1983
Crowe, B.M., 1990
Czarnecki, J.B., 1985
Czarnecki, J.B., 1991
Czarnecki, J.B., 1992
Czarnecki, J.B., and Geldon, A.L., 1991
Czarnecki, J.B., and Waddell, R.K., 1984
Czarnecki, J.B., and Wilson, W.E., 1993
Daniels, J.J., 1980
Daniels, J.J., 1981
Daniels, W.R., et al., 1982b
Diehl, S.F., and Chornack, M.P., 1990
Doyle, A.C., and Meyer, G.L., 1982
Erickson, J.R., and Waddell, R.K., 1985
Ervin, E.M., et al., 1993
Fenix and Scisson, 1986a
Fenix and Scisson, 1986b
Fenix and Scisson, 1986c
Fenix and Scisson, 1986d
Fenix and Scisson, 1986e
Fenix and Scisson, 1986f
Fenix and Scisson, 1987a
Fenix and Scisson, 1987b
Fitterman, D.V., 1982
Fridrich, C.J., et al., 1994
Galloway, Devin, 1986
Hagstrum, J.T., et al., 1980
Hale, G.S., and Trudeau, D.A., 1993
Harrar, J.E., et al., 1990
Heiken, G.H., and Bevier, M.L., 1979
Ho, C.H., 1995
Hoover, D.B., et al., 1982a
Hoover, D.B., et al., 1982b
Hoover, D.L., 1989a
Hoover, D.L., and Trudeau, D.A., 1987
Hoover, D.L., et al., 1978
Johannesson, K.H., et al., 1995a
Johnson, R.L., and Bauer, S.J., 1991
Kane, M.F., and Bracken, R.E., 1983
Karasaki, Kenzi, et al., 1991
Kauahikaua, J.P., 1981
Kenneally, J.M., et al., 1995
Kerrisk, J.F., 1987
King, K.W., 1982
Knauss, K.G., and Beiriger, W.B., 1984
Kroitoru, Levy, et al., 1991
Kume, Jack, and Hammermeister, D.P., 1990
Kume, Jack, and Hammermeister, D.P., 1991
La Camera, R.J., and Westenburg, C.L., 1994
Lahoud, R.G., et al., 1984
Langenheim, V.E., et al., 1991
Langenheim, V.E., et al., 1993
Laul, J.C., and Maiti, T.C., 1990
Leary, K.D., 1990
Livingston, D.E., et al., 1991
Lobmeyer, D.H., et al., 1983
Lobmeyer, D.H., et al., 1995
Loskot, C.L., and Hammermeister, D.P., 1992
Luckey, R.R., et al., 1993
Maldonado, Florian, 1985
Maldonado, Florian, and Koether, S.L., 1983
Maldonado, Florian, et al., 1979a
Marshall, B.D., et al., 1993
Mattson, S.R., et al., 1989
Matuska, N.A., 1989
McKay, E.J., and Wilhams, W.P., 1964
McKee, E.H., and Bergquist, J.R., 1993
McKinley, P.W., et al., 1991
Montazer, Parviz, et al., 1984
Nelson, P.H., et al., 1991
Norris, A.E., 1990
Norris, A.E., et al., 1987
O'Brien, G.M., 1991
O'Brien, G.M., 1992
O'Brien, G.M., 1993
O'Brien, G.M., et al., 1995
Oliver, H.W., et al., 1982
O'Neill, J.M., et al., 1992
Pankratz, L.W., 1982a
Peterson, F.F., et al., 1995
Ponce, D.A., et al., 1993a
Price, R.H., 1983
Price, R.H., and Jones, A.K., 1982
Price, R.H., et al., 1982a
Price, R.H., et al., 1982b
Quade, J.G., et al., 1995
Ramspott, L.D., et al., 1970
Robinson, G.D., 1985
Robison, J.H., 1984a
Robison, J.H., et al., 1988

AREA 25 (continued)

Rosenbaum, J.G., and Hudson, M.R., 1990
Rush, F.E., et al., 1983
Rush, F.E., et al., 1984
Russell, C.E., 1989
Sass, J.H., et al., 1988
Savard, C.S., 1994a
Scott, R.B., et al., 1983
Scott, R.B., et al., 1984
Senterfit, R.M., et al., 1982
Simonds, F.W., 1989
Snyder, D.B., and Carr, W.J., 1982
Snyder, D.B., and Oliver, H.W., 1981
Stuckless, J.S., 1991
Stuckless, J.S., et al., 1991
Swadley, W.C., and Hoover, D.L., 1989
Swadley, W.C., et al., 1984
Sweeney, J.J., 1984
Tarr, A.C., and Rogers, A.M., 1986
Thomas, K.W., 1987
Thordarson, William, 1983a
Thordarson, William, et al., 1985
Thorstenon, D.G., et al., 1990
U.S. Geological Survey, 1983a
U.S. Geological Survey, 1984
Vine, E.N., et al., 1980
Vortman, L.J., 1991
Waddell, R.K., 1984a
Waddell, R.K., 1985a
Waddell, R.K., et al., 1984
Walck, M.C., and Phillips, J.S., 1990
Warren, R.G., 1983b
Warren, R.G., 1983c
Warren, R.G., et al., 1984
Warren, R.G., et al., 1988
Wells, S.G., et al., 1988
Wells, S.G., et al., 1990
Wells, S.G., et al., 1991
Whitfield, M.S., et al., 1984
Whitfield, M.S., et al., 1985
Whitney, J.W., and Harrington, C.D., 1993
Whitney, J.W., and Shroba, R.R., 1991
Winograd, I.J., and Szabo, B.J., 1988
Wolfsberg, Kurt, et al., 1979
Wolfsberg, Kurt, et al., 1981
Young, R.A., 1969a
Young, R.A., 1972a
Yount, J.C., et al., 1987
Zimmerman, R.W., et al., 1991

BIBLIOGRAPHIES

Bell, E.J., and Larson, L.T., 1982a
Borg, I.Y., et al., 1976b
Connolly, J.R., et al., 1983a
Glanzman, V.M., 1979
Glanzman, V.M., 1980a
Glanzman, V.M., 1981
Glanzman, V.M., 1983
Glanzman, V.M., 1984a
Glanzman, V.M., 1985
Glanzman, V.M., 1986a
Glanzman, V.M., 1992
Ortiz, Cynthia, 1986
Raymond, J.R., et al., 1989
Raytheon Services Nevada, 1993a
Russell, C.E., 1989
U.S. Geological Survey, 1970a
U.S. Geological Survey, 1977
U.S. Geological Survey, 1984

CALDERAS

Carr, W.J., and Quinlivan, W.D., 1966
Carr, W.J., and Quinlivan, W.D., 1968
Carr, W.J., et al., 1968
Christiansen, R.L., et al., 1965
Christiansen, R.L., et al., 1977
Cummings, David, 1968
Healey, D.L., and Miller, C.H., 1966
Jackson, M.R., 1988
Kane, M.F., et al., 1981
Leonard, M.A., and Johnson, L.R., 1987
Lipman, P.W., and Christiansen, R.L., 1963
Luft, S.J., 1964
Noble, D.C., et al., 1968
Orkild, P.P., 1968
Quinlivan, W.D., and Byers, F.M., Jr., 1977
Sawyer, D.A., and Sargent, K.A., 1989
Snyder, D.B., and Carr, W.J., 1984
Spence, W., 1974
Vaniman, D.T., et al., 1980
Warren, R.G., 1983b
Warren, R.G., 1983c
Warren, R.G., et al., 1985
Warren, R.G., et al., 1988
Zablocki, C.J., 1979

CARBONATE ROCKS

Bateman, R.L., et al., 1972
Claassen, H.C., and Cordes, E.H., 1975

CARBONATE ROCKS (continued)

Cogbill, A.H., et al., 1989
Dettinger, M.D., 1989a
Dickey, D.D., 1960
Dickey, D.D., and Hassemer, J.H., 1974
Grove, D.B., et al., 1969
Kroitoru, Levy, et al., 1991
Leap, D.I., 1982
Leap, D.I., and Mai, P.A., 1985
Schoff, S.L., and Winograd, I.J., 1961
Schoff, S.L., and Winograd, I.J., 1962a
Schoff, S.L., and Winograd, I.J., 1962b
Szabo, B.J., et al., 1981
Winograd, I.J., and Pearson, F.J., Jr., 1976

CLIMAX STOCK

Allingham, J.W., and Zeitz, Isidore, 1962
Barton, C.A., et al., 1995
Bath, G.D., et al., 1983a
Bath, G.D., et al., 1983b
Beetem, W.A., et al., 1962
Beiriger, J.M., et al., 1985
Connolly, J.A., 1981
Ellis, W.L., 1983
Ellis, W.L., and Magner, J.E., 1982
Gibbons, A.B., et al., 1961
Healey, D.L., 1983a
Heuze, F.E., et al., 1981
Houser, F.N., 1961a
Houser, F.N., and Poole, F.G., 1960a
Houser, F.N., and Poole, F.G., 1961
Houser, F.N., et al., 1961
Isherwood, D.J., et al., 1981
Isherwood, D.J., et al., 1982
Maldonado, Florian, 1977d
Murray, W.A., 1980
Murray, W.A., 1981
Naeser, C.W., 1979
Naeser, C.W., and Maldonado, Florian, 1981
Orkild, P.P., 1983b
Orkild, P.P., et al., 1983
Patrick, W.C., 1986a
Patrick, W.C., 1986b
Pratt, H.R., et al., 1979
Price, C.E., 1960
Ramspott, L.D., 1979
Ramspott, L.D., 1980
Ramspott, L.D., and Ballou, L.B., 1980
Ramspott, L.D., et al., 1979a
Ramspott, L.D., et al., 1979b

Ramspott, L.D., et al., 1981
Ryerson, F.J., and Qualheim, B.J., 1983
Thorpe, R.K., 1984a
Thorpe, R.K., and Springer, J.E., 1981
U.S. Geological Survey, 1983b
Walker, G.E., 1962a
Wilder, D.G., 1987
Wilder, D.G., and Patrick, W.C., 1981
Wilder, D.G., and Yow, Y.L., Jr., 1981
Wilder, D.G., and Yow, J.L., 1984
Wilder, D.G., and Yow, J.L., Jr., 1985
Wilder, D.G., and Yow, J.L., Jr., 1987
Wilder, D.G., et al., 1982
Yow, J.L., 1984a

DRILL HOLES

Balch, A.H., et al., 1980
Barnes, Harley, 1962
Barr, G.E., 1985
Beiriger, J.M., et al., 1985
Bentley, C.B., 1984
Bentley, C.B., et al., 1983
Blankennagel, R.K., 1965
Blankennagel, R.K., 1967
Blankennagel, R.K., 1968
Bowers, W.E., 1964
Boyd, O.S., et al., 1992
Brikowski, T.H., et al., 1993
Broxton, D.E., et al., 1982
Carr, W.J., 1982a
Carr, W.J., et al., 1968
Carroll, P.I., et al., 1981
Daniels, J.J., 1980
Daniels, J.J., 1981
Daniels, J.J., and Scott, J.H., 1983
Daniels, W.R., 1979a
Davies, W.J., et al., 1982
Davisson, M.L., et al., 1993
Dean, R., 1979
Dixon, G.L., et al., 1973a
Dixon, G.L., et al., 1973c
Dixon, G.L., et al., 1975
Dixon, G.L., et al., 1983
Efurd, D.W., 1994
Ege, J.R., and Cunningham, M.J., 1976
Ellis, W.L., 1983
Emerick, W.L., 1961a
Emerick, W.L., 1965
Emerick, W.L., 1983
Erickson, J.R., and Waddell, R.K., 1985
Erikson, S.J., 1991

DRILL HOLES (continued)

- Fairer, G.M., 1975
Fenix and Scisson, 1986a
Fenix and Scisson, 1986b
Fenix and Scisson, 1986c
Fenix and Scisson, 1986d
Fenix and Scisson, 1986e
Fenix and Scisson, 1986f
Fenix and Scisson, 1987a
Fenix and Scisson, 1987b
Fenske, P.R., 1978
Fernald, A.T., et al., 1965
Fernald, A.T., et al., 1975
Garber, M.S., and Johnston, R.H., 1967
Garber, M.S., and Thordarson, William, 1962
Garcia, A.A., et al., 1991
Gardner, G.G., and Brikowski, T.H., 1993
Gillson, R.G., 1993
Gillson, R.G., et al., 1992
Gonzales, J.L., et al., 1982
Gonzales, J.L., et al., 1985
Hagstrum, J.T., et al., 1980
Haimson, B.C., 1982
Hale, G.S., et al., 1995
Harrar, J.E., et al., 1990
Hawkins, W.L., et al., 1990
Healey, D.L., 1970a
Healy, J.H., et al., 1982
Healy, J.H., et al., 1984
Hearst, J.R., 1995
Hearst, J.R., and Carlson, R.C., 1993
Hershey, R.L., and Brikowski, T.H., 1995
Hess, A.E., and Paillet, F.L., 1991
Hodson, J.N., and Hoover, D.L., 1978
Hoover, D.L., and Trudeau, D.A., 1987
Houser, F.N., 1961a
Houser, F.N., and Poole, F.G., 1959a
Houser, F.N., and Poole, F.G., 1959b
Howard, N.W., and Bell, C.A., 1983
Howard, N.W., and Bell, C.A., 1984
Howard, N.W., et al., 1985
Jenkins, E.C., 1969
Jenkins, E.C., 1970
Johnston, R.H., 1968
Jones, B.F., 1982
Kosowski, B.A., et al., 1978
Kume, Jack, and Hammermeister, D.P., 1991
Lahoud, R.G., et al., 1984
Lobmeyer, D.H., et al., 1983
Loskot, C.L., and Hammermeister, D.P., 1992
Luckey, R.R., et al., 1993
Lyles, B.F., 1990a
Lyles, B.F., 1993a
Lyles, B.F., and Mihevc, T.M., 1994
Lyles, B.F., et al., 1991
Maldonado, Florian, and Koether, S.L., 1983
Maldonado, Florian, et al., 1979a
Maldonado, Florian, et al., 1979b
Mao, N.H., 1987
McKeown, F.A., and Wilmarth, V.R., 1959
Meyer, G.L., and Smith, R.E., n.d.
Meyer, G.L., and Thordarson, William, 1963
Meyer, G.L., and Young, R.A., 1962
Miller, C.H., et al., 1966
Moore, J.E., 1962
Moore, J.E., and Garber, M.S., 1962
Moore, J.E., et al., 1963
Muller, D.C., and Kibler, J.E., 1983
Nelson, P.H., et al., 1991
Pawloski, G.A., 1982
Poole, F.G., and Roller, J.C., 1960
Pottorff, E.J., et al., 1987
Prather, T.L., 1965
Price, C.E., 1960
Price, C.E., and Thordarson, William, 1962
Quinlivan, W.D., et al., 1977
Quinlivan, W.D., et al., 1985
Ramspott, L.D., and McArthur, R.D., 1977
Ramspott, L.D., et al., 1970
Rechard, R.P., and Schuler, K.W., 1982
Reynolds Electrical & Engineering Co., 1994
Robbins, S.L., and Clutson, F.G., 1983
Robbins, S.L., et al., 1982
Rush, F.E., et al., 1983
Rush, F.E., et al., 1984
Russell, G.M., and Locke, G.L., in preparation
Sargent, K.A., 1969b
Sargent, K.A., 1969c
Sargent, K.A., et al., 1972
Schmoker, J.W., and Kosowski, B.A., 1978
Schoff, S.L., and Winograd, I.J., 1961
Schoff, S.L., and Winograd, I.J., 1962a
Sharps, J.A., 1987
Springer, J.E., et al., 1984
Stock, J.M., et al., 1984
Terry, S.S., 1975
Terry, S.S., and Cunningham, M.J., 1975
Thomas, K.W., 1987
Thompson, J.L., and Gilmore, J.S., 1989
Thompson, J.L., 1991a
Thompson, P.H., and Drellack, S.L., 1988

DRILL HOLES (continued)

Thordarson, William, et al., 1962
Thordarson, William, et al., 1967
Thordarson, William, et al., 1984
Thordarson, William, et al., 1985
Thorpe, R.K., 1984a
Thorpe, R.K., and Qualheim, B.J., 1985
Thorstenson, D.G., et al., 1990
Waddell, R.K., 1985a
Wagoner, J.L., 1991a
Wagoner, J.L., and Ramspott, L.D., 1981
Wagoner, J.L., and Richardson, W.W., 1986
Warren, R.G., et al., 1984
Weeks, E.P., and Wilson, W.E., 1984
Weir, J.E., Jr., and Hodson, J.N., 1979
Whitfield, M.S., et al., 1984
Whitfield, M.S., et al., 1985
Young, R.A., 1963a
Young, R.A., 1965a

EARTHQUAKES

Aki, Keiiti, et al., 1969a
Aki, Keiiti, et al., 1969b
Anderson, D.L., et al., 1970
Cranswick, Edward, et al., 1992
Edwards, C.L., et al., 1983
Glaser, R.E., et al., 1986
Gomberg, J.S., 1991a
Gupta, I.N., and Blandford, R.R., 1987
Hamilton, R.M., et al., 1969b
Hamilton, R.M., et al., 1970
Hamilton, R.M., et al., 1972
Harmsen, S.C., 1994
Harmsen, S.C., and Rogers, A.M., 1986
Healy, J.H., and Hamilton, R.M., 1969
King, K.W., 1982
Lum, P.K., and Honda, K.K., 1992
Lum, P.K., and Honda, K.K., 1993
Mayeda, K.M., 1993
Mayeda, K.M., et al., 1993
Meremonte, M.E., et al., 1993
O'Brien, G.M., 1992
O'Brien, G.M., 1993
Peppin, W.A., and McEvilly, T.V., 1974
Perkins, D.M., et al., 1986
Rogers, A.M., et al., 1976
Rogers, A.M., et al., 1977a
Rogers, A.M., et al., 1977b
Rogers, A.M., et al., 1981
Rogers, A.M., et al., 1987

Ryall, Alan, and Savage, W.U., 1969
Smith, K.D., and Brune, J.N., 1993
Tarr, A.C., and Rogers, A.M., 1986
Taylor, S.R., et al., 1987
Taylor, S.R., et al., 1989
Tokarz, F.J., and Murray, R.C., 1974
Twenhofel, W.S., et al., 1962
University of Wisconsin, Milwaukee, 1973
Vergino, E.S., et al., 1986
Walter, W.R., 1993a

FIELD TRIP GUIDEBOOKS

Abbott, E.W., et al., 1989
Ander, H.D., et al., 1984
Christiansen, R.L., et al., 1969
Dockery, H.A., et al., 1985
Hess, J.W., and Jacobson, R.L., 1984
U.S. Geological Survey, 1971a
U.S. Geological Survey, 1976b

FRACTURING

Grove, D.B., and Beetem, W.A., 1971
Kao, C.S., et al., 1994
Karasaki, Kenzi, et al., 1991
Kessler, J.H., and Hunt, J.R., 1994
Light, W.B., et al., 1990
Lin, Wunan, and Ruddell, David, 1991
Maldonado, Florian, 1977a
Maldonado, Florian, 1977b
Miller, C.H., and Miller, D.R., 1977
Miller, C.H., et al., 1974b
Moench, A.F., 1984
Montazer, Parviz, et al., 1988
Morrow, C., and Byerlee, J., 1984
Murray, W.A., 1980
Nelson, P.H., et al., 1991
Peters, R.R., and Klavetter, E.A., 1988
Peters, R.R., et al., 1987
Prindle, R.W., 1990
Russell, C.E., 1987
Russell, C.E., et al., 1987
Russell, C.E., et al., in press
Shroba, R.R., et al., 1988a
Smith, Christian, et al., 1981a
Snyder, R.P., 1970
Snyder, R.P., 1971
Snyder, R.P., 1975a
Snyder, R.P., 1976
Snyder, R.P., and Rogers, Susan, 1972
Steele, S.G., and Snyder, R.P., 1972

FRACTURING (continued)

Steele, S.G., and Snyder, R.P., 1973
Teufel, L.W., and Warpinski, N.R., 1988
Thoma, S.G., et al., 1992
Thorpe, R.K., 1984a
Thorpe, R.K., and Springer, J.E., 1981
Travis, B.J., et al., 1984
U.S. Geological Survey, 1976a
U.S. Geological Survey, 1990
Walter, G.R., 1982
Walter, G.R., 1985
Wang, J.S.Y., and Narsimhan, T.N., 1993
Wilder, D.G., 1987
Wilder, D.G., and Yow, J.L., Jr., 1981
Wilder, D.G., and Yow, J.L., 1984
Zimmerman, R.W., et al., 1991

FRENCHMAN FLAT VALLEY

Bryant, E.A., 1992a
Carr, W.J., et al., 1975a
Chapman, J.B., 1993
Costantino, M.S., and Bonner, B.P., 1980
Dozier, B.L., and Rawlinson, S.E., 1991
Foley, T.A., 1981
French, R.H., 1980
Healey, D.L., et al., 1967
Hood, J.W., 1961
Hudson, M.H., 1992
Hudson, M.R., 1988
Hudson, M.R., 1989a
Hudson, M.R., 1992a
Jones, B.F., 1982
Kosowski, B.A., et al., 1978
Lindstrom, F.T., et al., 1992
Lindstrom, F.T., et al., 1993
Meyer, G.L., and Young, R.A., 1962
Miller, C.H., and Healey, D.L., 1965
Miller, C.H., and Healey, D.L., 1986
Miller, C.H., et al., 1966
Miller, J.J., et al., 1993
Poole, F.G., 1965a
Prather, T.L., 1965
Ramspott, L.D., and McArthur, R.D., 1977
Raytheon Services Nevada, 1991
Raytheon Services Nevada, 1993a
Raytheon Services Nevada, 1993b
Raytheon Services Nevada, 1994a
Raytheon Services Nevada, 1994b
Reynolds Electrical & Engineering Co., 1993a
Reynolds Electrical & Engineering Co., 1993c

Reynolds Electrical & Engineering Co., 1994
Rothermich, N.E., and Vollmer, A.T., 1986
Schmeltzer, J.S., et al., 1993
Snyder, K.E., and Gustafson, D.L., 1994
Snyder, K.E., et al., 1993
Snyder, K.E., et al., 1994
Snyder, K.E., et al., 1995
Stockman, H.W., 1992
Travis, B.J., et al., 1983

GENERAL

Albright, J.N., et al., 1983
Albright, J.N., et al., 1994
Alexander, S.S., 1983
Allmendinger, R.W., et al., 1987
Anderson, G.D., et al., 1987
Anderson, L.A., 1981
Anderson, L.M., and McLaughlin, K.L., 1985
Anspaugh, L.R., et al., 1973
Armstrong, R.L., 1963
Armstrong, R.L., 1968
Avon, Lizanne, and Durbin, T.J., 1994
Bakhtiar, S.N., 1990
Ballard, R.F., Jr., 1964
Ballou, L.B., 1979a
Ballou, L.B., et al., 1984
Barker, C.E., 1994
Barker, C.E., 1995
Barnes, M.G., et al., 1980
Barosh, P.J., 1967
Barton, C.C., 1986
Bath, G.D., et al., 1983b
Bedinger, M.S., et al., 1989c
Bell, E.J., and Larson, L.T., 1982b
Bell, J.W., et al., 1991
Benjamin, T.M., 1995
Bennett, T.J., and Murphy, J.R., 1983
Bennett, T.J., and Murphy, J.R., 1986
Benson, L.V., and Hostetler, S.W., 1991
Benson, L.V., and Kleiforth, H., 1989
Blacic, J.D., 1993
Black, S.C., et al., 1992
Black, S.C., et al., 1995
Blandford, R.R., 1975
Blankennagel, R.K., 1967
Blankennagel, R.K., et al., 1986
Blanton, J.O., 1992
Bliss, W.A., and Dunn, L., 1971
Blout, D.O., et al., 1994
Boardman, C.R., 1970
Bond, W.D., and Clark, W.E., 1959

GENERAL (continued)

- Bond, W.D., and Clark, W.E., 1960
Bostick, K.V., et al., 1983
Brethauer, G.E., 1979
Brethauer, G.E., et al., 1980a
Brethauer, G.E., et al., 1980b
Carroll, R.D., 1982a
Case, C.M., et al., 1984b
Chael, E.P., 1988
Chael, E.P., et al., 1987
Cherry, J.T., et al., 1968
Cording, E.J., 1969
Cornwall, H.R., 1972
Covington, H.R., 1987
Crowe, B.M., and Carr, W.J., 1980
Crowley, B.K., and Germain, L.S., 1971
Cullen, J.J., et al., 1991
D'Agnese, F.A., 1994
Daley, T.M., and McEvilly, T.V., 1990
Daley, T.M., et al., ???
Daniels, J.E., ed., 1993
Daniels, W.R., 1978
Daniels, W.R., 1979b
Daniels, W.R., 1981a
Daniels, W.R., ed., 1982
Daniels, W.R., ed., 1983a
Daniels, W.R., and Thompson, J.L., eds., 1984
Daniels, W.R., et al., 1982a
Daniels, W.R., et al., 1982c
Daniels, W.R., et al., 1983
Davis, J.M., 1992
Davis, J.O., 1983
Davis, L.L., and Lynch, R.D., 1970a
Davis, L.L., and Lynch, R.D., 1970b
Davis, R.E., 1964
Davis, R.E., et al., 1965
Davisson, M.L., et al., 1994
Dean, R., 1979
Denny, M.D., 1990
Denny, M.D., et al., 1990
Desert Research Institute, 1987
Desert Research Institute, 1989
Dettinger, M.D., 1989b
Dickey, D.D., 1960
Dickey, D.D., 1962
Dickey, D.D., and Emerick, W.L., 1961
Dickey, D.D., and Emerick, W.L., 1962
Dickey, D.D., and McKeown, F.A., 1960
Dickey, D.D., et al., 1969b
Diment, W.H., et al., 1959c
Diment, W.H., et al., 1959d
Diment, W.H., et al., 1959e
Dixon, G.L., and Glanzman, V.M., 1982
Dixon, G.L., and Glanzman, V.M., 1984
Dixon, G.L., and Hoover, D.B., 1982
Dixon, G.L., et al., 1980
Doty, G.C., and Rush, F.E., 1984
Dudley, W.W., 1972
Dudley, W.W., 1977a
EG & G Energy Measurements, Inc., 1987
Eakin, T.E., and Winograd, I.J., 1965
Eakin, T.E., et al., 1951
Eakin, T.E., et al., 1963
Eberle, W.R., and Bigelow, R.C., 1973
Eckel, E.B., 1968a
Eckel, E.B., ed., 1968b
Edwards, C.L., et al., 1981
Ege, J.R., et al., 1976
Ekren, E.B., 1968a
Ekren, E.B., et al., 1968b
Ellis, W.L., and Magner, J.E., 1980
Erdal, B.R., et al., 1979
Erikson, S.J., and Jacobson, R.L., in press
Essington, E.H., et al., 1975
Essington, E.H., et al., 1977
Estrella, Rocio, 1994a
Fenske, P.R., and Charnell, R.L., 1971
Fenske, P.R., and Charnell, R.L., 1972
Ferguson, R.B., 1982
Fleischer, R.L., et al., 1974
Flexser, Steve, and Wollenberg, H.A., 1992
Foglesong, M.T., 1991
Foglesong, M.T., 1993
Foley, T.A., 1981
French, R.H., 1980
French, R.H., 1984a
French, R.H., 1987
French, R.H., and Hess, J.W., in press
French, R.H., and Jacobson, R.L., 1994
French, R.H., and Lombardo, W.S., 1984
French, R.H., et al., 1984a
French, R.H., et al., 1984b
Frischknecht, F.C., and Raab, P.V., 1984
Frizzell, V.A., Jr., and Shulters, Jacqueline, 1990
Froula, N.H., et al., 1972
Garcia, A.A., et al., 1991
Gardiner, D.S., et al., 1978
Gardner, T.W., et al., 1988
Gaynor, R.K., 1984
Giardini, A.A., et al., 1968
Gibson, J.D., 1993a
Gibson, J.D., 1993b
Gillespie, D.R., et al., 1995

GENERAL (continued)

- Glanzman, V.M., 1979
Glanzman, V.M., 1986b
Glover, P., and Alexander, S.S., 1970
Golden, B.G., 1995
Gomberg, J.S., 1991a
Gomberg, J.S., 1991b
Green, S.J., et al., 1971
Green, S.J., et al., 1973
Grose, T.L., and Smith, G.I., 1989
Grothaus, B., and Hage, G.L., 1978
Grothaus, B., and Howard, N., 1977
Gupta, I.N., et al., 1992
Gurrola, Harold, et al., 1989
Guth, P.L., 1981
Hadley, D.M., and Hart, R.S., 1979
Haldeman, D.L., et al., 1994
Hanes, W.T., 1976
Harmsen, S.C., 1991b
Harmsen, S.C., 1992a
Harris, A.G., et al., 1995
Harris, R.N., et al., 1989a
Harris, R.N., et al., 1989b
Hawkins, W.L., et al., 1992a
Hawkins, W.L., et al., 1992b
Hawkins, W.L., et al., 1993
Hazelwood, R.M., 1970
Hazleton-Nuclear Science Corp., 1965
Healey, D.L., 1983a
Healey, D.L., and Miller, C.H., 1962
Healey, D.L., and Miller, C.H., 1963
Healey, D.L., et al., 1978a
Healey, D.L., et al., 1979
Healey, D.L., et al., 1987
Hearst, J.R., 1986
Hearst, J.R., and Carlson, R.C., 1993
Helmberger, D.V., et al., 1991
Henny, R.W., 1977
Herrin, Eugene, et al., 1979
Hildenbrand, T.G., et al., 1988
Hinrichs, E.N., 1973
Ho, C.H., 1995
Hodges, K.V., and Walker, J.D., 1992
Hoffman, D.C., 1977a
Hoffman, D.C., 1977b
Hoffman, D.C., 1979
Hoffman, D.C., and Daniels, W.R., 1981a
Hoffman, D.C., and Daniels, W.R., 1981b
Hoffman, D.C., and Daniels, W.R., 1983
Hoffman, D.C., and Daniels, W.R., 1984
Hoffman, D.C., et al., 1983a
Hoffman, D.C., et al., 1983b
Holzer, A., 1970
Hoover, D.B., et al., 1982a
Hoover, D.B., et al., 1982b
Hoover, D.L., and Shepard, A.O., 1965
Hoover, D.L., et al., 1978
Hoover, D.L., et al., 1981
Houser, F.N., 1969b
Houser, F.N., 1969c
Houser, F.N., 1970a
Houser, F.N., 1970b
Houser, F.N., 1970c
Houser, F.N., and Eckel, E.B., 1962
Houser, F.N., and Emerick, W.L., 1964
Houser, F.N., and Poole, F.G., 1960b
Houser, F.N., and Poole, F.G., 1960c
Howard, N.W., 1976
Howard, N.W., 1979a
Howard, N.W., 1983
Howard, N.W., 1985
Huber, N.K., 1988
Hunt, C.B., et al., 1966
Hunt, J.R., 1989
Jansma, P.E., et al., 1983
Johnson, M.S., and Hibbard, D.E., 1957
Jones, M.A., comp., 1992
Keller, G.R., 1993
Kieft, T.L., et al., 1993
Kilroy, K.C., 1989
Kinoshita, W.T., and Savage, J.C., 1971
Krivoy, H.L., and Mears, C.E., 1969
Lacznia, R.J., et al., 1996
Laraway, W.H., and Houser, F.N., 1962
Larson, J.D., 1974a
Larson, J.D., 1974b
Larson, J.D., 1975
Leonard, M.A., et al., 1987
Lin, Wunan, et al., 1991
Loeltz, O.J., 1960
Lyles, B.F., 1992
Lyles, B.F., 1993a
Lynnes, C.S., and Lay, T., 1990
Marsh, B.D., and Resmini, R.G., 1992
Marsh, K.V., 1991a
Marsh, K.V., 1992a
Marsh, K.V., 1992b
Mathews, M.A., et al., 1991
Maxey, G.B., and Farvolden, R.N., 1965
Mayeda, K.M., 1993
McArthur, R.D., and Kordas, J.F., 1985
McArthur, R.D., and Mead, S.W., 1987
McArthur, R.D., and Mead, S.W., 1988

GENERAL (continued)

- McDowell, E.M., and Black, S.C., 1991
McKague, H.L., 1980
McKague, H.L., and Orkild, P.P., 1984
McKague, H.L., et al., 1989
McKeown, F.A., 1975
Mercer, J.W., et al., eds., 1983
Miller, G.A., 1977
Moench, A.F., 1984
Monfort, M.E., and Evans, J.R., 1982b
Moore, H.J., 1977
Moore, J.E., 1961
Moore, J.E., 1962
Murphy, J.R., and Bennett, T.J., 1981
Naff, R.L., et al., 1974
Nakanish, K.K., et al., 1993
Navarro, Richard, et al., 1977a
Navarro, Richard, et al., 1977b
Nordyke, M.D., 1961
Nordyke, M.D., 1962
Nordyke, M.D., and Williamson, M.M., 1965
Nugent, R.C., and Banks, D.C., 1965a
Nugent, R.C., and Banks, D.C., 1965b
Nugent, R.C., and Girucky, F.E., 1968
Ohl, J.P., 1970
Ohl, J.P., 1973
Ohl, J.P., 1975a
Ohl, J.P., 1977a
Olsen, C.W., and Donohue, M.L., 1985
Olsen, C.W., and Price, M.E., 1991
Olsen, K.H., and Peratt, A.L., 1994
Olsson, W.A., and Jones, A.K., 1980?
Orkild, P.P., 1983a
Oswald, K.M., 1971
Page, W.R., 1990
Pawloski, G.A., 1981b
Pawloski, G.A., et al., 1992
Ponce, D.A., et al., 1993b
Price, C.E., 1963
Quade, J.G., and Tingley, J.V., 1983
Rambo, J.T., and Rimer, N., 1994
Ramspott, L.D., 1979
Ramspott, L.D., 1980
Ramspott, L.D., and Howard, N.W., 1975
Rawson, D.E., and Borg, I.Y., 1970
Rayburn, C.J., et al., 1989
Raymond, J.R., et al., 1989
Raytheon Services Nevada, 1993a
Reiner, S.R., et al., 1995
Riess-Davis Child Study Center, 1977
Reynolds Electrical & Engineering Co., 1991
Robie, L.S., et al., 1995
Robinson, B.P., et al., 1967
Robinson, B.P., et al., 1969
Rogers, A.M., et al., 1981
Rush, F.E., 1970
Russell, C.E., 1989
Sass, J.H., and Lachenbruch, A.H., 1982a
Sass, J.H., and Lachenbruch, A.H., 1982b
Savage, J.C., et al., 1973
Savage, J.C., et al., 1974
Sawyer, D.A., et al., 1991
Sawyer, D.A., et al., 1995
Schmeltzer, J.S., et al., 1993
Scott, W.B., 1990
Short, N.M., 1963
Shott, G.J., et al., 1995
Siefken, D.L., and Starmer, R.J., 1983
Sinnock, Scott, 1982
Smith, Christian, et al., 1981b
Smith, D.K., 1995a
Smith, D.K., et al., 1996
Spaulding, W.G., 1983
Spruill, J.L., 1965
Stephens, D.R., et al., 1969b
Strausberg, S.I., 1967
Strausberg, S.I., 1968a
Strausberg, S.I., 1968b
Stubenrauch, A.L., 1977
Sweeney, J.J., 1986
Taylor, S.R., 1981a
Taylor, S.R., 1981b
Taylor, S.R., 1983
Tendall, D.M., 1970
Terhune, R.W., and Glenn, H.D., 1977
Thomas, J.M., et al., 1986
Thompson, C.B., and Russell, C.E., 1991
Thompson, J.L., 1986
Thompson, J.L., 1987
Thompson, J.L., 1988a
Thompson, J.L., 1989
Thompson, J.L., 1990
Thompson, J.L., 1991b
Thompson, J.L., 1991c
Thompson, J.L., 1992a
Thompson, J.L., 1993b
Thompson, J.L., 1994a
Thompson, J.L., 1994b
Thompson, J.L., 1995a
Thompson, J.L., 1995b
Thordarson, William, and Robinson, B.P., 1971
Titus, A.L., and Manger, W.L., 1992
Titus, A.L., et al., 1995

GENERAL (continued)

Treher, E.N., and Raybold, N.A., 1982
Twenhofel, W.S., et al., 1962
Twenhofel, W.S., et al., 1981
Twenhofel, W.S., et al., 1983
Tyler, S.W., 1987a
Tyler, S.W., and Jacobson, R.L., 1990
U.S. Atomic Energy Commission, 1973
U.S. Dept. of Energy, 1993a
U.S. Dept. of Energy, 1993b
U.S. Energy Research and Development Administration, 1977
U.S. Environmental Protection Agency, 1976
U.S. Geological Survey, 1970a
U.S. Geological Survey, 1974
U.S. Geological Survey, 1977
U.S. Geological Survey, 1992
U.S. Geological Survey, 1995
Unger, R.W., 1994
Unknown, 1991
Vander Zouwen, D.E., et al., 1981
Weir, J.E., Jr., and Nelson, J.W., 1976
Wen, J., and McMechan, G.A., 1984
West, S.W., 1969
Wilder, D.G., and Yow, J.L., Jr., 1985
Wilder, D.G., and Yow, J.L., Jr., 1987
Williams, W.P., et al., 1963
Wilson, W.E., 1984a
Wilson, W.E., et al., 1982
Winograd, I.J., 1962a
Winograd, I.J., 1962b
Winograd, I.J., 1970
Winograd, I.J., 1991
Winograd, I.J., and Doty, G.C., 1980
Winograd, I.J., and Szabo, B.J., 1988
Winograd, I.J., et al., 1971
Wollenberg, H.A., et al., 1983
Woods, B.B., and Harkrider, D.G., 1995
Worts, G.F., Jr., 1963
Wruble, D.T., and McDowell, E.M., 1990
Wyman, R.V., 1988
Young, R.A., 1965a
Zandt, George, et al., 1990
Zimmerman, R.M., 1982

GEOCHEMISTRY

Benson, L.V., and Kleiforth, H., 1989
Benson, L.V., and McKinley, P.W., 1985
Benson, L.V., et al., 1983
Boughton, C.J., 1986

Boughton, C.J., et al., 1984
Bryant, E.A., 1992b
Cerling, T.E., and Quade, J.G., 1991
Chapman, J.B., et al., 1995
Claassen, H.C., 1981
Claassen, H.C., 1982
Claassen, H.C., 1985
Claassen, H.C., and White, A.F., 1979a
Claassen, H.C., and White, A.F., 1979b
Clebsch, Alfred, Jr., 1961
Cleveland, J.M., et al., 1983
Coles, D.G., et al., 1978
Coles, D.G., et al., 1979
Coles, D.G., et al., 1980
Connolly, J.A., 1981
Connolly, J.R., and Keil, Klaus, 1985
Connolly, J.R., et al., 1983b
Connolly, J.R., et al., 1984
Copenhagen, S.A., et al., 1992
Crowe, B.M., and Sargent, K.A., 1979
Daniels, W.R., comp., 1981b
Daniels, W.R., comp., 1981c
Daniels, W.R., comp., 1981d
Daniels, W.R., and Wolfsberg, Kurt, 1981
Daniels, W.R., et al., 1982b
Davisson, M.L., et al., 1993
Dombrowski, Tonya, et al., 1992
Essington, E.H., and Sharp, J.V.A., 1968
Failor, R.A., et al., 1983
Goldberg, M.C., et al., 1962
Grove, D.B., et al., 1969
Houser, F.N., and Poole, F.G., 1959a
Hunt, J.R., 1989
Huysken, K.T., 1993
Jacobson, R.L., et al., 1986
Johannesson, K.H., et al., 1995a
Johannesson, K.H., et al., 1995b
Kautsky, M., 1984a
Kenneally, J.M., et al., 1994
Kerrisk, J.F., 1983
Kerrisk, J.F., 1987
Kessler, J.H., and Hunt, J.R., 1994
Kingston, W.L., 1989
Kingston, W.L., et al., 1988
Knauss, K.G., 1981a
Knauss, K.G., 1981b
Knauss, K.G., 1984
Knauss, K.G., and Beiriger, W.B., 1984
Kroitoru, Levy, et al., 1991
Kubik, P.W., et al., 1990
Leap, D.I., 1982
Los Alamos National Laboratory, 1991

GEOCHEMISTRY (continued)

Lyles, B.F., 1992
Lyles, B.F., 1993b
Lyles, B.F., et al., 1990
Lynch, A.W., and Dosch, R.G., 1979
MacLean, S.C., et al., 1978
Malmberg, G.T., and Eakin, T.E., 1964
Marshall, B.D., et al., 1993
Matuska, N.A., 1989
McKee, E.H., and Bergquist, J.R., 1993
Means, J.L., et al., 1983
Moncure, G.K., 1980
Moncure, G.K., et al., 1981
Moore, D.E., et al., 1984a
Moore, D.E., et al., 1984b
Moore, D.E., et al., 1984c
Moore, D.E., et al., 1986
Norris, A.E., 1990
Norris, A.E., et al., 1982
Ogard, A.E., et al., 1988
Perfect, D.L., 1994
Perry, F.V., and Crowe, B.M., 1992
Quinlivan, W.D., and Byers, F.M., Jr., 1977
Rayburn, C.J., et al., 1989
Russell, C.E., 1993
Russell, C.E., et al., 1991
Russell, C.E., et al., 1994
Sargent, K.A., 1965a
Schoff, S.L., and Moore, J.E., 1964
Schoff, S.L., and Moore, J.E., 1968
Short, N.M., 1969
Shroba, R.R., et al., 1988b
Silva, R.J., et al., 1986
Smith, D.K., 1993a
Smith, D.K., 1994a
Smith, D.K., 1995b
Smith, D.K., et al., 1995b
Stockman, H.W., 1992
Strausberg, S.I., 1967
Strausberg, S.I., 1968a
Strausberg, S.I., 1968b
Strong, W., and Conrad, S.H., 1992
Stuckless, J.S., 1991
Stuckless, J.S., et al., 1991
Sykes, M.L., et al., 1980a
Sykes, M.L., et al., 1980b
Szabo, B.J., and O'Malley, P.A., 1985
Szabo, B.J., et al., 1981
Thomas, J.M., 1988a
Thomas, K.W., 1987
Thompson, J.L., 1991d

Thompson, J.L., and Gilmore, J.S., 1991
Warren, R.G., 1983b
Warren, R.G., 1983c
White, A.F., 1979a
White, A.F., 1981
White, A.F., and Chuma, N.J., 1987
White, A.F., et al., 1980
Winograd, I.J., and Thordarson, William, 1975
Wolfsberg, Kurt, 1978a
Wolfsberg, Kurt, et al., 1979
Wolfsberg, Kurt, et al., 1981
Zielinski, R.A., and Rosholt, J.N., 1978

GEOLOGIC MAPS

Barnes, Harley, et al., 1963a
Barnes, Harley, et al., 1965
Barnes, Harley, et al., 1982
Carr, W.J., and Quinlivan, W.D., 1966
Christiansen, R.L., and Lipman, P.W., 1965
Christiansen, R.L., and Noble, D.C., 1968
Colton, R.B., and McKay, E.J., 1967
Colton, R.B., and Noble, D.C., 1968
Covington, H.R., and Simonds, F.W., 1985
Dixon, G.L., et al., 1973b
Ekren, E.B., et al., 1965
Ekren, E.B., et al., 1968a
Frizzell, V.A., Jr., and Shulters, Jacqueline, 1990
Guth, P.L., in press
Hildenbrand, T.G., et al., 1988
Hinrichs, E.N., and Gibbons, A.B., 1962
Hinrichs, E.N., and McKay, E.J., 1965
Houser, F.N., and Poole, F.G., 1960a
Kane, M.F., and Bracken, R.E., 1983
Kirchoff-Stein, K.S., et al., 1989
Langer, W.H., et al., 1984
Maldonado, Florian, 1985
Maldonado, Florian, and Hausback, B.P., 1990
McKeown, F.A., et al., 1976
Miller, C.H., et al., 1974a
Miller, J.J., et al., 1993
Minor, S.A., et al., 1993
Monsen, S.A., et al., 1990
Orkild, P.P., 1963
Orkild, P.P., 1968a
Orkild, P.P., et al., 1969
Ponce, D.A., et al., 1988
Poole, F.G., 1965a
Quinlivan, W.D., and Rogers, C.L., 1974
Robison, J.H., 1984a
Rogers, C.L., et al., 1968
Saltus, R.W., 1994

GEOLOGIC MAPS (continued)

Sargent, K.A., and Orkild, P.P., 1973
Sargent, K.A., and Stewart, J.H., 1971
Sargent, K.A., et al., 1970
Sawyer, D.A., et al., 1995
Stewart, J.H., and Carlson, J.E., 1978
Swadley, W.C., and Hoover, D.L., 1989
Swadley, W.C., and Hoover, D.L., 1990
Swadley, W.C., and Huckins, H.E., 1990
Winograd, I.J., and Young, R.A., 1965

GEOLOGY

Alexander, S.S., 1983
Ander, H.D., 1983
Ander, H.D., 1984
Armstrong, R.L., 1963
Armstrong, R.L., 1968
Balch, A.H., et al., 1980
Baldwin, M.J., and Jahren, C.E., 1982
Ball, S.H., 1907
Barker, B.W., et al., 1979
Barker, B.W., et al., 1981
Barnes, Harley, 1962
Barnes, Harley, and Byers, F.M., Jr., 1961
Barnes, Harley, and Christiansen, R.L., 1967
Barnes, Harley, and Palmer, A.R., 1961
Barnes, Harley, and Poole, F.G., 1968
Barnes, Harley, et al., 1962
Barnes, Harley, et al., 1963a
Barnes, Harley, et al., 1963b
Barnes, Harley, et al., 1965
Barnes, Harley, et al., 1982
Barosh, P.J., 1967
Barosh, P.J., 1968
Bedinger, M.S., et al., 1989c
Bell, E.J., and Larson, L.T., 1982b
Bell, J.W., et al., 1991
Bish, D.L., 1981
Bish, D.L., 1991
Bish, D.L., and Semarge, R.E., 1982
Bish, D.L., et al., 1990
Boardman, C.R., 1966
Boardman, C.R., et al., 1966
Borg, I.Y., 1972
Borg, I.Y., 1974
Bostick, K.V., et al., 1983
Bowers, W.E., 1964
Boyd, O.S., et al., 1992
Brethauer, G.E., et al., 1980a
Brethauer, G.E., et al., 1980b
Brethauer, G.E., et al., 1981
Broxton, D.E., et al., 1982
Carr, W.J., 1974a
Carr, W.J., 1974b
Carr, W.J., 1982a
Carr, W.J., 1984a
Carr, W.J., 1984b
Carr, W.J., 1988a
Carr, W.J., 1990
Carr, W.J., and Rogers, A.M., 1982
Carr, W.J., et al., 1968
Carr, W.J., et al., 1975a
Carr, W.J., et al., 1975b
Carr, W.J., et al., 1983
Carr, W.J., et al., 1984a
Carr, W.J., et al., 1984b
Carr, W.J., et al., 1986
Carroll, P.I., et al., 1981
Carroll, R.D., 1989
Carroll, R.D., and Muller, D.C., 1973
Carter, L.D., et al., 1967
Case, C.M., et al., 1984a
Cashman, P.H., and Trexler, J.H., Jr., 1991
Cashman, P.H., and Trexler, J.H., Jr., 1992
Cashman, P.H., and Trexler, J.H., Jr., 1994
Cashman, P.H., et al., 1994
Caskey, S.J., 1991
Caskey, S.J., and Schweickert, R.A., 1989
Caskey, S.J., and Schweickert, R.A., 1992
Cattermole, J.M., and Hansen, W.R., 1962
Christiansen, R.L., and Lipman, P.W., 1966
Christiansen, R.L., and Noble, D.C., 1965
Christiansen, R.L., et al., 1965
Christiansen, R.L., et al., 1977
Clark, T.R., 1984
Cogbill, A.H., et al., 1989
Cole, J.C., 1987
Cole, J.C., et al., 1989
Cole, J.C., et al., 1993
Cole, J.C., et al., 1994a
Cole, J.C., et al., 1994b
Connolly, J.R., and Keil, Klaus, 1985
Connolly, J.R., et al., 1983b
Connolly, J.R., et al., 1984
Cook, K.L., et al., 1966
Cording, E.J., 1969
Cornwall, H.R., 1972
Costantino, M.S., and Bonner, B.P., 1980
Covington, H.R., 1989
Covington, H.R., and Simonds, F.W., 1985
Crowe, B.M., 1990
Crowe, B.M., et al., 1980

GEOLOGY (continued)

- Cunningham, M.J., and Snyder, R.P., 1975
Daniels, W.R., 1979a
Daniels, W.R., comp., 1981b
Daniels, W.R., comp., 1981c
Daniels, W.R., comp., 1981d
Daniels, W.R., and Wolfsberg, Kurt, 1981
Danilchuk, Walter, 1969
Davies., W.J., et al., ????
Davis, J.O., 1983
Davis, R.E., 1964
Davis, R.E., et al., 1965
Dickey, D.D., 1960
Dickey, D.D., 1962
Dickey, D.D., and Emerick, W.L., 1961
Dickey, D.D., and Emerick, W.L., 1962
Dickey, D.D., and McKeown, F.A., 1960
Dickey, D.D., et al., 1967
Dickey, D.D., et al., 1969a
Dickey, D.D., et al., 1969b
Diehl, S.F., and Chornack, M.P., 1990
Diment, W.H., et al., 1959b
Diment, W.H., et al., 1959c
Diment, W.H., et al., 1959d
Diment, W.H., et al., 1959e
Diment, W.H., et al., 1959f
Diment, W.H., et al., 1961
Dinwiddie, G.A., 1978
Dixon, G.L., et al., 1973a
Dixon, G.L., et al., 1973c
Dixon, G.L., et al., 1975
Dixon, G.L., et al., 1976
Dixon, G.L., et al., 1980
Dixon, G.L., et al., 1983
Dodge, H.W., Jr., et al., 1976
Doty, G.C., and Rush, F.E., 1984
Doyle, A.C., and Meyer, G.L., 1982
Dozier, B.L., and Rawlinson, S.E., 1991
Drellack, S.L., and Cavazos, A.P., 1986
Drellack, S.L., and Cavazos, A.P., 1987
Drellack, S.L., and Thompson, P.H., 1990
Drellack, S.L., et al., 1982
Drellack, S.L., et al., 1983
Drellack, S.L., et al., 1984
Drellack, S.L., et al., 1989a
Drellack, S.L., et al., 1989b
Drellack, S.L., et al., in press
Duba, A.G., et al., 1973
Duff, R.E., 1978
Eckel, E.B., 1959
Eckel, E.B., 1968a
Eckel, E.B., ed., 1968b
Ege, J.R., 1977
Ege, J.R., and Cunningham, M.J., 1976
Ege, J.R., et al., 1970
Ege, J.R., et al., 1976
Ege, J.R., et al., 1980a
Ege, J.R., et al., 1980b
Ekren, E.B., 1968a
Ekren, E.B., et al., 1968b
Ellis, W.L., and Snyder, R.P., 1974
Elwood, Rebecca, et al., 1985a
Elwood, Rebecca, et al., 1985b
Emerick, W.L., 1961a
Emerick, W.L., 1962a
Emerick, W.L., 1965
Emerick, W.L., and Dickey, D.D., 1962
Emerick, W.L., and Houser, F.N., 1962
Emerick, W.L., et al., 1962
Erdal, B.R., 1979a
Erdal, B.R., 1979b
Erdal, B.R., 1979c
Erdal, B.R., 1980a
Erdal, B.R., 1980b
Erdal, B.R., 1980c
Erdal, B.R., 1980d
Erdal, B.R., et al., 1978a
Erdal, B.R., et al., 1978b
Erickson, J.R., and Waddell, R.K., 1985
Fairer, G.M., 1975
Fairer, G.M., et al., 1979
Faunt, C.C., 1994
Felch, R.N., et al., 1979
Ferguson, J.F., et al., 1994
Fernald, A.T., 1970
Fernald, A.T., 1983a
Fernald, A.T., et al., 1965
Fernald, A.T., et al., 1968a
Fernald, A.T., et al., 1968b
Fernald, A.T., et al., 1975
Fischer, F.G., et al., 1972
Flanigan, V.J., 1979
Foley, M.G., et al., 1991
Fridrich, C., and O'Leary, Dennis, 1993
Frizzell, V.A., Jr., and Shulters, Jacqueline, 1990
Garber, M.S., and Johnston, R.H., 1967
Garcia, M.N., and Sharps, J.A., 1985
Garcia, M.N., and Sharps, J.A., 1986
Gardner, T.W., et al., 1988
Giardini, A.A., et al., 1968
Gibbons, A.B., 1960
Gibbons, A.B., et al., 1961
Gibbons, A.B., et al., 1963

GEOLOGY (continued)

- Gibbs, J.F., and Roller, J.C., 1966
Gibson, J.D., 1993a
Gibson, J.D., 1993b
Giles, K.R., 1976
Glanzman, V.M., 1986b
Gonzales, J.L., et al., 1982
Gonzales, J.L., et al., 1985
Gordon, Mackenzie, Jr., and Poole, F.G., 1968
Gray, R.C., 1966a
Grose, T.L., and Smith, G.I., 1989
Grothaus, B., and Hage, G.L., 1978
Grothaus, B., and Howard, N., 1977
Guth, P.L., 1981
Guth, P.L., 1990
Haimson, B.C., 1982
Haimson, B.C., et al., 1974a
Hamilton, W.B., 1988
Hannon, W.J., and McKague, H.L., 1975
Hansen, W.R., and Lemke, R.W., 1959
Hansen, W.R., et al., 1963
Harris, A.G., et al., 1995
Hasler, J.W., 1963
Hawkins, W.L., et al., 1987
Healey, D.L., 1968
Heiken, G.H., and Bevier, M.L., 1979
Helmberger, D.V., et al., 1991
Henny, R.W., 1977
Herring, D.M., et al., 1993
Hershey, R.L., and Brikowski, T.H., 1995
Hestir, K., et al., 1988
Heuze, F.E., 1982
Hildenbrand, T.G., et al., 1988
Hinrichs, E.N., 1968a
Hinrichs, E.N., 1973
Hinrichs, E.N., and Corchary, G.S., 1968
Hinrichs, E.N., and Gibbons, A.B., 1962
Hinrichs, E.N., and McKay, E.J., 1965
Hinrichs, E.N., and Orkild, P.P., 1961
Hodges, K.V., and Walker, J.D., 1992
Hodson, J.N., and Hoover, D.L., 1978
Holmes and Narver, 1988
Hoffman, D.C., 1977a
Hoover, D.B., et al., 1979
Hoover, D.L., 1964
Hoover, D.L., 1966
Hoover, D.L., 1968a
Hoover, D.L., 1989a
Hoover, D.L., and Magner, J.E., 1990
Hoover, D.L., and Morrison, J.N., 1980
Hoover, D.L., et al., 1981
Houser, F.N., 1961a
Houser, F.N., 1962a
Houser, F.N., 1968
Houser, F.N., 1969c
Houser, F.N., 1970a
Houser, F.N., 1970b
Houser, F.N., 1970c
Houser, F.N., and Poole, F.G., 1959a
Houser, F.N., and Poole, F.G., 1959b
Houser, F.N., and Poole, F.G., 1960b
Houser, F.N., and Poole, F.G., 1960c
Houser, F.N., and Poole, F.G., 1961
Houser, F.N., et al., 1961
Howard, N.W., 1976
Howard, N.W., 1979a
Howard, N.W., 1983
Howard, N.W., 1985
Howard, N.W., and Bell, C.A., 1983
Howard, N.W., and Bell, C.A., 1984
Howard, N.W., et al., 1985
Huber, N.K., 1988
Hudson, M.H., 1992
Hudson, M.R., 1988
Hudson, M.R., 1989a
Hudson, M.R., 1992a
Huysken, K.T., 1993
Istok, J.D., et al., 1994
IT Corporation, in preparation d
IT Corporation, in preparation e
Izett, G.A., 1988
Jackson, M.R., 1988
James, O.B., 1969
Jenkins, E.C., 1969
Jenkins, E.C., 1970
Jenkins, E.C., 1973
Johnson, M.S., and Hibbard, D.E., 1957
Johnson, R.B., and Ege, J.R., 1964
Johnstone, J.K., and Wolfsberg, Kurt, eds., 1980a
Johnstone, J.K., and Wolfsberg, Kurt, eds., 1980b
Jones, B.F., 1982
Karasaki, Kenzi, et al., 1991
Keller, G.R., 1993
Keller, G.V., 1959a
Kistler, R.W., 1968
Knauss, K.G., 1984
Kume, Jack, and Hammermeister, D.P., 1991
Langenheim, V.E., et al., 1991
Laraway, W.H., and Houser, F.N., 1962
Leisek, J.F., 1964
Lin, Wunan, and Ruddle, David, 1991
Lipman, P.W., 1964
Lipman, P.W., and Christiansen, R.L., 1963

GEOLOGY (continued)

- Lipman, P.W., et al., 1966
Livingston, D.E., et al., 1991
Lynnes, C.S., 1988
MacLean, S.C., et al., 1978
Maldonado, Florian, 1977d
Maldonado, Florian, 1981a
Maldonado, Florian, 1985
Maldonado, Florian, and Koether, S.L., 1983
Maldonado, Florian, et al., 1979a
Maldonado, Florian, et al., 1979b
Manger, G.E., 1965
Mao, N.H., 1983
Mao, N.H., 1985
Mao, N.H. 1987
Marsh, B.D., and Resmini, R.G., 1992
Marvin, R.F., et al., 1970
Mathews, M.A., et al., 1991
Mattson, S.R., 1989
McArthur, R.D., 1976
McArthur, R.D., and Burkhard, N.R., 1986
McKague, H.L., 1980
McKague, H.L., 1983
McKague, H.L., and Orkild, P.P., 1984
McKague, H.L., et al., 1979
McKague, H.L., et al., 1989
McKay, E.J., and Wilhams, W.P., 1964
McKee, E.H., and Bergquist, J.R., 1993
McKeown, F.A., and Dickey, D.D., 1960
McKeown, F.A., and Dickey, D.D., 1961
McKeown, F.A., and Wilmarth, V.R., 1959
McKeown, F.A., et al., 1959
McLaughlin, K.L., et al., 1986
McLaughlin, K.L., et al., 1987
Metcalf, L.M., 1983
Meyer, G.L., and Smith, R.E., n.d.
Miller, C.H., and Miller, D.R., 1977
Miller, C.H., et al., 1974b
Miller, C.H., et al., 1975a
Miller, C.H., et al., 1975b
Miller, J.J., et al., 1993
Mills, J.G., Jr., and Rose, T.P., 1991
Minor, S.A., 1989
Minor, S.A., 1990
Minor, S.A., et al., 1993
Minster, J.B., et al., 1981a
Minster, J.B., et al., 1981b
Moench, R.H., 1965
Moore, H.J., 1977
Morrow, C., and Byerlee, J., 1984
Myers, W.B., 1987
Myers, W.B., 1988
Naeser, C.W., 1979
Naeser, C.W., and Maldonado, Florian, 1981
Naumann, T.R., et al., 1991
Nitchman, S.P., 1990
Noble, D.C., 1965a
Noble, D.C., 1968a
Noble, D.C., et al., 1965
Noble, D.C., et al., 1968
Nugent, R.C., and Banks, D.C., 1965a
Nugent, R.C., and Banks, D.C., 1965b
Nugent, R.C., and Girucky, F.E., 1968
O'Connor, J.T., 1963
Ohl, J.P., 1970
Ohl, J.P., 1973
Ohl, J.P., 1975a
Ohl, J.P., 1977a
Oliver, H.W., et al., 1982
O'Neill, J.M., et al., 1992
Orkild, P.P., 1963
Orkild, P.P., 1965a
Orkild, P.P., 1968a
Orkild, P.P., 1970a
Orkild, P.P., 1983a
Orkild, P.P., 1983b
Orkild, P.P., and Jenkins, E.C., 1970
Orkild, P.P., and Jenkins, E.C., 1978
Orkild, P.P., and Pomeroy, J.S., 1961
Orkild, P.P., et al., 1968
Orkild, P.P., et al., 1969
Orkild, P.P., et al., 1983
Page, W.R., 1990
Parrish, D.K., and Senseny, P.E., 1981
Pawloski, G.A., 1983
Pawloski, G.A., et al., 1992
Perry, F.V., and Crowe, B.M., 1992
Peterson, F.F., et al., 1995
Pezzopane, S.K., et al., 1994
Pohlmann, K.F., and Andricevic, Roko, 1994
Poole, F.G., 1965a
Poole, F.G., and McKeown, F.A., 1962
Poole, F.G., and Roller, J.C., 1960
Poole, F.G., et al., 1961
Poole, F.G., et al., 1965
Prather, T.L., 1965
Pratt, H.R., et al., 1979
Price, C.E., 1960
Price, C.E., 1963
Price, C.E., and Thordarson, William, 1962
Puchlik, K.P., 1974
Quinlivan, W.D., and Lipman, P.W., 1965
Quinlivan, W.D., and Rogers, C.L., 1974

GEOLOGY (continued)

- Quinlivan, W.D., et al., 1977
 Quinlivan, W.D., et al., 1985
 Ramspott, L.D., and Borg, I.Y., 1977
 Rawson, D.E., and Borg, I.Y., 1970
 Raytheon Services Nevada, 1991
 Raytheon Services Nevada, 1994a
 Raytheon Services Nevada, 1994b
 Reheis, M.C., and Noller, J.S., 1987
 Richards, W.D., 1964
 Robinson, G.D., 1985
 Rodriguez, E.A., and Yount, J.C., 1988
 Rogers, A.M., et al., 1982
 Rogers, A.M., et al., 1987
 Rogers, C.L., et al., 1968
 Rosholt, J.N., et al., 1984
 Rosholt, J.N., et al., 1985
 Ryerson, F.J., and Qualheim, B.J., 1983
 Saltus, R.W., 1994
 Sargent, K.A., 1969b
 Sargent, K.A., 1969c
 Sargent, K.A., and Orkild, P.P., 1973
 Sargent, K.A., and Stewart, J.H., 1971
 Sargent, K.A., et al., 1970
 Sargent, K.A., et al., 1972
 Sass, J.H., and Lachenbruch, A.H., 1982a
 Sass, J.H., and Lachenbruch, A.H., 1982b
 Sass, J.H., et al., 1988
 Saucier, R.T., and Wire, J.C., 1964
 Sawyer, D.A., and Sargent, K.A., 1989
 Sawyer, D.A., et al., 1990
 Sawyer, D.A., et al., 1994
 Sawyer, D.A., et al., 1995
 Schuraytz, B.C., et al., 1987
 Schweickert, R.A., and Caskey, S.J., 1990
 Scott, P., and Helmberger, D.V., 1981
 Scott, R.B., et al., 1983
 Scott, R.B., et al., 1984
 Semken, S.C., 1984
 Semken, S.C., and DePaolo, D.J., 1983
 Shepard, A.O., 1961
 Shinn, J.H., et al., 1993
 Short, N.M., 1963
 Short, N.M., 1969
 Shroba, R.R., 1983
 Shroba, R.R., et al., 1988a
 Shroba, R.R., et al., 1988b
 Simonds, F.W., 1989
 Sinnock, Scott, 1982
 Smith, K.D., and Brune, J.N., 1993
 Snow, J.K., 1992
 Snyder, K.E., and Gustafson, D.L., 1994
 Snyder, K.E., et al., 1993
 Snyder, K.E., et al., 1994
 Snyder, K.E., et al., 1995
 Snyder, R.P., 1968a
 Snyder, R.P., 1971
 Snyder, R.P., 1973a
 Snyder, R.P., 1977
 Spengler, R.W., and Glanzman, V.M., 1980
 Steele, S.G., and Fairer, G.M., 1978
 Stewart, J.H., 1988
 Stewart, J.H., and Carlson, J.E., 1978
 Stuckless, J.S., 1991
 Swadley, W.C., and Hoover, D.L., 1983
 Swadley, W.C., and Hoover, D.L., 1989
 Swadley, W.C., and Hoover, D.L., 1990
 Swadley, W.C., and Huckins, H.E., 1990
 Swadley, W.C., et al., 1984
 Swadley, W.C., et al., 1995
 Sweeney, J.J., 1983
 Sweeney, J.J., 1984
 Swolfs, H.S., et al., 1973
 Szabo, B.J., and O'Malley, P.A., 1985
 Szabo, B.J., et al., 1981
 Taylor, S.R., 1981a
 Terry, S.S., 1975
 Terry, S.S., and Cunningham, M.J., 1975
 Teufel, L.W., 1982
 Teufel, L.W., and Warpinski, N.R., 1988
 Thompson, J.L., 1991a
 Thompson, P.H., and Drellack, S.L., 1988
 Thorpe, R.K., and Qualheim, B.J., 1985
 Thorpe, R.K., and Springer, J.E., 1981
 Throckmorton, C.K., and Verbeek, E.R., 1995
 Titus, A.L., and Manger, W.L., 1992
 Titus, A.L., et al., 1995
 Tokarz, F.J., and Murray, R.C., 1974
 Townsend, D.R., and Baldwin, M.J., 1982
 Townsend, D.R., et al., 1982
 Twenhofel, W.S., et al., 1981
 Twenhofel, W.S., et al., 1983
 U.S. Army Engineer Waterways Experiment Station, 1964
 U.S. Dept. of Energy, 1993b
 U.S. Energy Research and Development Administration, 1977
 U.S. Geological Survey, 1971a
 U.S. Geological Survey, 1971b
 U.S. Geological Survey, 1974
 U.S. Geological Survey, 1976b
 U.S. Geological Survey, 1978
 U.S. Geological Survey, 1979

GEOLOGY (continued)

U.S. Geological Survey, 1982
U.S. Geological Survey, 1983b
U.S. Geological Survey, 1984
U.S. Geological Survey, 1990
Unknown, 1991
Vander Zouwen, D.E., et al., 1981
Vaniman, D.T., et al., 1980
Vine, E.N., et al., 1980
Wagoner, J.L., 1987
Wagoner, J.L., 1991a
Wagoner, J.L., and Richardson, W.W., 1986
Warren, R.G., 1983a
Warren, R.G., 1983b
Warren, R.G., 1983c
Warren, R.G., et al., 1984
Warren, R.G., et al., 1989
Weed, H.C., et al., 1976
Weir, J.E., 1967
Weir, J.E., Jr., and Hodson, J.N., 1979
Wells, S.G., et al., 1988
Wells, S.G., et al., 1990
Wells, S.G., et al., 1991
Wernicke, Brian, et al., 1988
Whitney, J.W., and Harrington, C.D., 1993
Whitney, J.W., and Shroba, R.R., 1991
Wilder, D.G., and Yow, Y.L., Jr., 1981
Wilder, D.G., and Yow, J.L., 1984
Wilder, D.G., and Yow, J.L., Jr., 1985
Wilder, D.G., and Yow, J.L., Jr., 1987
Wilder, D.G., et al., 1982
Williams, V.S., et al., 1986
Williams, W.P., et al., 1963
Wilmarth, V.R., and McKeown, F.A., 1960
Wilmarth, V.R., et al., 1960b
Wilmarth, V.R., et al., 1962
Winograd, I.J., and Thordarson, William, 1968
Wyman, R.V., 1988
Yount, J.C., et al., 1987
Yow, J.L., 1984a
Zimmerman, R.M., and Vollendorf, W.C., 1982
Zimmerman, R.M., et al., 1981

GEOPHYSICS

Adams, W.M., et al., 1961
Aki, Keiiti, et al., 1969a
Aki, Keiiti, et al., 1969b
Albright, J.N., et al., 1983
Allingham, J.W., and Zeitz, Isidore, 1962
Allmendinger, R.W., et al., 1987

Ander, H.D., 1983
Anderson, L.A., et al., 1980
Anderson, L.M., and McLaughlin, K.L., 1985
App, F.N., and Taylor, S.R., 1993
Bache, T.C., et al., 1978
Balch, A.H., et al., 1980
Baldwin, M.J., and Jahren, C.E., 1982
Ballard, R.F., Jr., 1964
Ballard, R.F., Jr., 1968
Barker, B.W., et al., 1979
Barker, B.W., et al., 1981
Barker, J.S., et al., 1985
Barker, J.S., et al., 1991
Barker, T.G., et al., 1981
Barosh, P.J., 1968
Basham, P.W., 1970
Bath, G.D., 1967
Bath, G.D., 1968
Bath, G.D., et al., 1982
Bath, G.D., et al., 1983a
Bayer, K.C., 1974
Bennett, T.J., and Murphy, J.R., 1983
Bennett, T.J., and Murphy, J.R., 1986
Blandford, R.R., 1975
Blankennagel, R.K., 1968
Blume, J.A., 1970
Bochicchio, Regina, 1991
Boucher, G.W., 1973
Brethauer, G.E., et al., 198
Brockman, S.R., et al., 1984
Carr, W.J., 1979
Carr, W.J., and Rogers, A.M., 1982
Carr, W.J., et al., 1983
Carr, W.J., et al., 1984b
Carroll, R.D., 1981
Carroll, R.D., 1982a
Carroll, R.D., 1986
Carroll, R.D., 1989
Carroll, R.D., 1990
Carroll, R.D., 1994
Carroll, R.D., and Cunningham, M.J., 1978
Carroll, R.D., and Kibler, J.E., 1983
Carroll, R.D., and Magner, J.E., 1986
Carroll, R.D., and Magner, J.E., 1988
Carroll, R.D., and Muller, D.C., 1973
Chael, E.P., 1988
Chael, E.P., et al., 1987
Chun, K.-Y., and McEvilly, T.V., 1981
Cole, J.C., et al., 1989
Conaway, J., 1987
Cook, K.L., et al., 1966
Cormier, V.F., 1985

GEOPHYSICS (continued)

Cormier, V.F., 1986
 Cormier, V.F., 1987a
 Cormier, V.F., 1987b
 Costantino, M.S., and Bonner, B.P., 1980
 Cranswick, Edward, et al., 1992
 Crowley, B.K., and Germain, L.S., 1971
 Cunningham, M.J., and Snyder, R.P., 1975
 Daily, W.D., and Ramirez, A.L., 1986
 Daily, W.D., and Ramirez, A.L., 1989
 Daley, T.M., and McEvilly, T.V., 1990
 Daley, T.M., et al., ???
 Daniels, J.J., 1980
 Daniels, J.J., 1981
 Daniels, J.J., and Scott, J.H., 1983
 Danilchuk, Walter, 1969
 Davies., W.J., et al., ???
 Davis, L.L., and Lynch, R.D., 1970a
 Davis, L.L., and Lynch, R.D., 1970b
 Davis, R.E., et al., 1965
 Denny, M.D., 1990
 Denny, M.D., et al., 1990
 Dettinger, M.D., et al., 1995
 Dickey, D.D., 1960
 Dickey, D.D., 1968
 Dickey, D.D., and Ellis, W., 1970
 Dickey, D.D., and Hassemer, J.H., 1974
 Diment, W.H., 1959
 Diment, W.H., et al., 1959a
 Diment, W.H., et al., 1960
 Diment, W.H., et al., 1961
 Dixon, G.L., et al., 1983
 Dodge, H.W., Jr., et al., 1976
 Douglas, A.C., and Millett, M.R., 1978
 Duba, A.G., et al., 1973
 Duff, R.E., 1978
 Eberle, W.R., and Bigelow, R.C., 1973
 Edwards, C.L., et al., 1981
 Edwards, C.L., et al., 1983
 Ege, J.R., 1977
 Ege, J.R., et al., 1970
 Ege, J.R., et al., 1976
 Ellis, W.L., 1983
 Ellis, W.L., and Ege, J.R., 1976
 Ellis, W.L., and Kibler, J.D., 1983
 Ellis, W.L., and Magner, J.E., 1980
 Ellis, W.L., and Magner, J.E., 1982
 Environmental Research Corporation, 1974
 Erskine, D.J., et al., 1994
 Felch, R.N., et al., 1979
 Ferguson, J.F., 1981

Ferguson, J.F., et al., 1994
 Ferguson, R.B., 1982
 Fischer, F.G., et al., 1972
 Fitterman, D.V., 1982
 Flanigan, V.J., 1979
 Foley, M.G., et al., 1991
 Frischknecht, F.C., and Raab, P.V., 1984
 Froula, N.H., et al., 1972
 Galloway, Devin, 1986
 Giardini, A.A., et al., 1968
 Gibbs, J.F., and Roller, J.C., 1966
 Glaser, R.E., et al., 1986
 Glover, P., and Alexander, S.S., 1970
 Goldstein, Peter, et al., 1993
 Gombert, J.S., 1991a
 Gombert, J.S., 1991b
 Gonzales, J.L., et al., 1982
 Gray, R.C., 1966a
 Green, S.J., et al., 1971
 Green, S.J., et al., 1973
 Gupta, I.N., and Blandford, R.R., 1987
 Gurrola, Harold, et al., 1989
 Hadley, D.M., and Hart, R.S., 1979
 Hadley, D.M., and Helmberger, D.V., 1979
 Hagstrum, J.T., et al., 1980
 Haimson, B.C., et al., 1974a
 Haimson, B.C., et al., 1974b
 Hales, A.L., and Maki-Lopez, M.L., 1980
 Hamilton, R.M., et al., 1969a
 Hamilton, R.M., et al., 1969b
 Hamilton, R.M., et al., 1971
 Hamilton, R.M., et al., 1972
 Hannon, W.J., and McKague, H.L., 1975
 Hanson, J.M., 1984
 Hanson, J.M., 1985
 Hardin, E.L., et al., 1985
 Harmsen, S.C., 1991a
 Harmsen, S.C., 1991b
 Harmsen, S.C., 1992a
 Harmsen, S.C., 1994
 Harmsen, S.C., and Rogers, A.M., 1986
 Harris, R.N., et al., 1986
 Harris, R.N., et al., 1989a
 Harris, R.N., et al., 1989b
 Hazelwood, R.M., 1961
 Hazelwood, R.M., 1970
 Healey, D.L., 1966
 Healey, D.L., 1968
 Healey, D.L., 1970a
 Healey, D.L., 1970b
 Healey, D.L., 1970c
 Healey, D.L., 1983a

GEOFYSICS (continued)

- Healey, D.L., and Miller, C.H., 1962
 Healey, D.L., and Miller, C.H., 1963
 Healey, D.L., and Miller, C.H., 1966
 Healey, D.L., and Miller, C.H., 1971
 Healey, D.L., and Miller, C.H., 1979
 Healey, D.L., et al., 1978
 Healy, J.H., and Hamilton, R.M., 1969
 Healy, J.H., et al., 1984
 Healey, D.L., et al., 1978b
 Healey, D.L., et al., 1979
 Healey, D.L., et al., 1987
 Healy, J.H., et al., 1982
 Hearst, J.R., 1995
 Hearst, J.R., and Burkhard, N.R., 1989
 Helmberger, D.V., and Hadley, D.M., 1981
 Helmberger, D.V., et al., 1991
 Herrin, Eugene, et al., 1979
 Hess, A.E., and Paillet, F.L., 1991
 Heuze, F.E., 1982
 Heuze, F.E., et al., 1981
 Hildenbrand, T.G., et al., 1988
 Hoover, D.B., et al., 1979
 Hoover, D.B., et al., 1982a
 Hoover, D.B., et al., 1982b
 Hoover, D.B., et al., 1982c
 Houser, F.N., 1969a
 Hudson, M.H., 1992
 Hudson, M.R., 1988
 Hudson, M.R., 1989a
 Hudson, M.R., 1992a
 Hudson, M.R., and Rosenbaum, J.G., 1990
 Huysken, K.T., 1993
 Jansma, P.E., et al., 1983
 Jarpe, S.P., et al., 1994
 Johnson, L.R., 1994a
 Kane, M.F., and Bracken, R.E., 1983
 Kane, M.F., et al., 1981
 Kane, M.F., et al., 1982
 Kauahikaua, J.P., 1981
 Keller, G.V., 1960
 Keller, G.V., 1962
 King, K.W., 1982
 Kinoshita, W.T., and Savage, J.C., 1971
 Kirchoff-Stein, K.S., et al., 1989
 Kososki, B.A., et al., 1978
 Krivoy, H.L., and Mears, C.E., 1969
 Lachenbruch, A.H., et al., 1987
 Langenheim, V.E., et al., 1991
 Langenheim, V.E., et al., 1993
 Langkopf, B.S., and Eshom, E., 1982
 Lappin, A.R., and Nimick, F.B., 1985
 Lee, F.T., and Nichols, T.C., Jr., 1972
 Leonard, M.A., and Johnson, L.R., 1984
 Leonard, M.A., and Johnson, L.R., 1987
 Leonard, M.A., et al., 1987
 Lin, Wunan, and Ruddle, David, 1991
 Lin, Wunan, et al., 1991
 Lum, P.K., and Honda, K.K., 1992
 Lum, P.K., and Honda, K.K., 1993
 Lynnes, C.S., 1988
 Lynnes, C.S., and Lay, T., 1990
 Majer, E.L., et al., 1994
 Maldonado, Florian, 1977b
 Maldonado, Florian, 1977c
 Maldonado, Florian, 1977d
 Maldonado, Florian, et al., 1979a
 Mao, N.H., 1983
 Mao, N.H., 1987
 Maxwell, D.E., and Denny, M.D., 1990
 Mayeda, K.M., 1993
 Mayeda, K.M., et al., 1993
 McArthur, R.D., and Burkhard, N.R., 1986
 McKague, H.L., et al., 1992
 McKeown, F.A., 1975
 McLaughlin, K.L., and Johnson, L.R., 1980
 McLaughlin, K.L., et al., 1986
 McLaughlin, K.L., et al., 1987
 Mellman, G.R., and Hart, R.S., 1982
 Meremonte, M.E., et al., 1993
 Metcalf, L.M., 1983
 Miller, C.H., 1976
 Miller, C.H., and Healey, D.L., 1965
 Miller, C.H., and Healey, D.L., 1986
 Miller, C.H., et al., 1966
 Miller, C.H., et al., 1974a
 Miller, C.H., et al., 1975a
 Minor, S.A., 1989
 Minster, J.B., et al., 1981a
 Minster, J.B., et al., 1981b
 Monfort, M.E., and Evans, J.R., 1982a
 Monfort, M.E., and Evans, J.R., 1982b
 Moore, J.E., et al., 1963
 Morris, R.H., et al., 1970
 Morrow, C., and Byerlee, J., 1984
 Mower, T.E., et al., 1993
 Muller, D.C., and Kibler, J.E., 1983
 Murphy, J.R., 1991
 Murphy, J.R., et al., 1987
 Navarro, Richard, et al., 1977a
 Navarro, Richard, et al., 1977b
 Nguyen, B.V., 1989
 Norden, J.A.E., 1961

GEOPHYSICS (continued)

- Nuttli, O.W., 1983
 Nuttli, O.W., 1986
 Obert, Leonard, 1964
 Oliver, H.W., et al., 1982
 Olsen, C.W., 1970
 Olsen, K.H., and Peratt, A.L., 1994
 Olsson, W.A., and Jones, A.K., 1980?
 Olsson, W.A., and Teufel, L.W., 1981
 Orkild, P.P., 1983b
 Orkild, P.P., et al., 1983
 Pankratz, L.W., 1982a
 Pawloski, G.A., 1981a
 Pawloski, G.A., 1983
 Pearson, D.C., et al., 1993
 Peppin, W.A., and McEvelly, T.V., 1974
 Perkins, D.M., et al., 1986
 Perret, W.R., 1976
 Perret, W.R., 1978
 Phillips, J.S., 1991
 Pohlmann, K.F., and Andricevic, Roko, 1994
 Ponce, D.A., 1981a
 Ponce, D.A., 1981b
 Ponce, D.A., 1984
 Ponce, D.A., and Hanna, W.F., 1982
 Ponce, D.A., et al., 1988
 Ponce, D.A., et al., 1993a
 Ponce, D.A., et al., 1993b
 Powers, P.S., and Healey, D.L., 1985
 Pratt, H.R., et al., 1978
 Pratt, H.R., et al., 1979
 Price, R.H., 1983
 Price, R.H., and Jones, A.K., 1982
 Price, R.H., et al., 1982a
 Price, R.H., et al., 1982b
 Purson, J.D., 1983
 Rambo, J.T., and Rimer, N., 1994
 Ramspott, L.D., 1979
 Ramspott, L.D., 1980
 Ratcliff, C.D., et al., 1994
 Raytheon Services Nevada, 1993b
 Riecker, R.E., and Rooney, T.P., 1966
 Robbins, S.L., and Clutsom, F.G., 1983
 Robbins, S.L., et al., 1982
 Rodriguez, E.A., and Yount, J.C., 1988
 Rogers, A.M., et al., 1976
 Rogers, A.M., et al., 1977a
 Rogers, A.M., et al., 1977b
 Rogers, A.M., et al., 1981
 Rogers, A.M., et al., 1982
 Rogers, A.M., et al., 1987
 Rosenbaum, J.G., 1986
 Rosenbaum, J.G., and Hudson, M.R., 1990
 Rousseau, J.P., et al., 1991
 Russell, C.E., 1989
 Ryall, Alan, and Savage, W.U., 1969
 Saltus, R.W., 1994
 Sargent, K.A., 1965b
 Sargent, K.A., 1969a
 Savage, J.C., et al., 1973
 Savage, J.C., et al., 1974
 Schmoker, J.W., and Kososki, B.A., 1978
 Schuraytz, B.C., et al., 1985
 Schweickert, R.A., and Caskey, S.J., 1990
 Scott, J.H., et al., 1964
 Scott, P., and Helmberger, D.V., 1981
 Scott, R.B., et al., 1984
 Senterfit, R.M., et al., 1982
 Sherwood, A.E., 1974
 Shipman, F.H., et al., 1974
 Short, N.M., 1969
 Smith, Christian, et al., 1981a
 Smith, Christian, et al., 1981b
 Smith, C.W., 1971
 Smith, C.W., and Bass, R.C., 1981
 Snyder, D.B., and Carr, W.J., 1982
 Snyder, D.B., and Carr, W.J., 1984
 Snyder, D.B., and Oliver, H.W., 1981
 Snyder, R.P., 1968a
 Spence, W., 1974
 Springer, J.E., et al., 1984
 Stauder, William, 1971
 Stead, R.J., and Helmberger, D.V., 1986
 Stephens, D.R., et al., 1969a
 Stock, J.M., 1984
 Stubenrauch, A.L., 1977
 Tarr, A.C., and Rogers, A.M., 1986
 Taylor, S.R., 1981b
 Taylor, S.R., 1983
 Taylor, S.R., et al., 1987
 Taylor, S.R., et al., 1989
 Tendall, D.M., 1970
 Terhune, R.W., and Glenn, H.D., 1977
 Teufel, L.W., 1982
 Tokarz, F.J., and Murray, R.C., 1974
 Tonander, K.E., 1993
 U.S. Geological Survey, 1978
 U.S. Geological Survey, 1979
 U.S. Geological Survey, 1982
 U.S. Geological Survey, 1983b
 University of Wisconsin, Milwaukee, 1973
 Vortman, L.J., 1991
 Vortman, L.J., and Long, J.W., 1982

GEOPHYSICS (continued)

Wagoner, J.L., 1981a
Wahl, R.R., 1969
Walck, M.C., 1988
Walck, M.C., and Phillips, J.S., 1990
Walter, W.R., 1993a
Warpinski, N.R., and Teufel, L.W., 1991
Wen, J., and McMechan, G.A., 1984
Wilder, D.G., 1987
Wilmarth, V.R., et al., 1960b
Woods, B.B., and Harkrider, D.G., 1995
Zablocki, C.J., 1979
Zandt, George, et al., 1990
Zimmerman, R.M., and Vollendorf, W.C., 1982
Zimmerman, R.M., et al., 1981
Zimmerman, R.M., et al., 1985
Zohdy, A.A.R., and Bisdorf, R.J., 1979
Zumberge, M.A., et al., 1988

HYDROGEOLOGY

Akers, J.P., 1974
Anderson, R.E., and Barnhard, T.P., 1991
Andricevic, Roko, et al., 1993
Andricevic, Roko, et al., 1994
Arteaga, F.E., et al., 1991
Bakhtiar, S.N., 1990
Barr, G.E., 1985
Barton, C.A., et al., 1995
Barton, C.C., 1986
Bateman, R.L., et al., 1972
Bateman, R.L., et al., 1974
Bedinger, M.S., et al., 1984
Bedinger, M.S., et al., 1989a
Bedinger, M.S., et al., 1989b
Bedinger, M.S., et al., 1989c
Beetem, W.A., et al., 1962
Beetem, W.A., et al., 1965
Benson, L.V., 1976
Benson, L.V., and Hostetler, S.W., 1991
Benson, L.V., and Kleiforth, H., 1989
Bentley, C.B., 1984
Bentley, C.B., et al., 1983
Bish, D.L., 1991
Blankennagel, R.K., 1965
Blankennagel, R.K., 1974
Blankennagel, R.K., and Weir, J.E., 1972
Blankennagel, R.K., and Weir, J.E., 1973
Blankennagel, R.K., et al., 1964
Blankennagel, R.K., et al., 1986
Blout, D.O., et al., 1994

Boardman, C.R., and Skrove, J., 1966
Bochicchio, Regina, 1991
Borg, I.Y., et al., 1976a
Borg, I.Y., et al., 1976b
Borg, I.Y., et al., 1977
Bostick, K.V., et al., 1983
Boughton, C.J., 1986
Boughton, C.J., et al., 1984
Boyd, O.S., et al., 1992
Brikowski, T.H., 1991a
Brikowski, T.H., 1992
Brikowski, T.H., 1993a
Brikowski, T.H., et al., 1993
Bryant, E.A., 1992a
Bryant, E.A., 1992b
Carson, R.L., 1980
Case, C.M., 1977
Case, C.M., et al., 1984a
Case, C.M., et al., 1984b
Case, C.M., et al., 1992
Cerling, T.E., and Quade, J.G., 1991
Chapman, J.B., 1993
Chapman, J.B., 1994
Chapman, J.B., and Lyles, B.F., 1993
Chapman, J.B., et al., 1995
Chen, T.C., 1981
Claassen, H.C., 1973
Claassen, H.C., 1982
Claassen, H.C., 1983
Claassen, H.C., 1984
Claassen, H.C., 1985
Claassen, H.C., 1986
Claassen, H.C., and Cordes, E.H., 1975
Claassen, H.C., and White, A.F., 1979a
Claassen, H.C., and White, A.F., 1979b
Clark, T.R., 1984
Clebsch, Alfred, Jr., 1959
Clebsch, Alfred, Jr., 1960
Clebsch, Alfred, Jr., 1961
Clebsch, Alfred, Jr., and Baker, F.B., 1960
Coles, D.G., and Ramspott, L.D., 1982
Coles, D.G., et al., 1978
Coles, D.G., et al., 1979
Coles, D.G., et al., 1980
Conaway, J., 1987
Copenhaver, S.A., et al., 1990
Craig, R.W., and Johnson, K.A., 1984
Craig, R.W., and Reed, R.L., 1991
Craig, R.W., and Robison, J.H., 1984
Craig, R.W., et al., 1983
Crow, N.B., 1976
Cullen, J.J., et al., 1991

HYDROGEOLOGY (continued)

- Czarnecki, J.B., 1985
 Czarnecki, J.B., 1991
 Czarnecki, J.B., 1992
 Czarnecki, J.B., and Geldon, A.L., 1991
 Czarnecki, J.B., and Waddell, R.K., 1984
 Czarnecki, J.B., and Wilson, W.E., 1993
 Daffern, D.E., et al., 1990
 D'Agnese, F.A., 1994
 Daily, W.D., and Ramirez, A.L., 1986
 Daily, W.D., and Ramirez, A.L., 1989
 Daily, W.D., et al., 1985
 Daily, W.D., et al., 1986
 Daily, W.D., et al., 1987
 Dale, D.A., and Seaber, P.R., 1993
 Daniels, W.R., comp., 1981b
 Daniels, W.R., comp., 1981c
 Daniels, W.R., comp., 1981d
 Daniels, W.R., and Wolfsberg, Kurt, 1981
 Daniels, W.R., et al., 1978
 Desert Research Institute, 1990
 Desert Research Institute, 1991
 Dettinger, M.D., 1987
 Dettinger, M.D., 1989a
 Dettinger, M.D., 1989b
 Dettinger, M.D., et al., 1995
 Detty, T.E., et al., 1993
 Dinwiddie, G.A., 1978
 Dinwiddie, G.A., and Weir, J.E., Jr., 1979
 Dombrowski, Tonya, et al., 1992
 Doty, T., and Thordarson, William, 1983
 Doyle, A.C., and Meyer, G.L., 1982
 Dudley, W.W., 1972
 Dudley, W.W., et al., 1971
 Eakin, T.E., and Winograd, I.J., 1965
 Eakin, T.E., et al., 1951
 Eckel, E.B., ed., 1968b
 Efurd, D.W., 1994
 Ege, J.R., et al., 1980a
 Ege, J.R., et al., 1980b
 Elliott, B., 1982
 Emerick, W.L., 1965
 Erdal, B.R., 1979a
 Erdal, B.R., 1979b
 Erdal, B.R., 1979c
 Erdal, B.R., 1980a
 Erdal, B.R., 1980b
 Erdal, B.R., 1980c
 Erdal, B.R., 1980d
 Erdal, B.R., et al., 1978a
 Erdal, B.R., et al., 1978b
 Erickson, J.R., and Waddell, R.K., 1985
 Erickson, K.L., 1978
 Erickson, K.L., and Fortney, D.R., 1981a
 Erickson, K.L., and Fortney, D.R., 1981b
 Erikson, S.J., 1991
 Erikson, S.J., and Jacobson, R.L., in press
 Ervin, E.M., et al., 1993
 Essington, E.H., and Sharp, J.V.A., 1968
 Essington, E.H., et al., 1970
 Estrella, Rocio, 1994a
 Estrella, Rocio, et al., 1993
 Faunt, C.C., 1994
 Feeney, T.A., et al., 1987
 Fenske, P.R., 1978
 Fenske, P.R., and Carnahan, C.L., 1976
 Fenske, P.R., and Charnell, R.L., 1971
 Fenske, P.R., and Charnell, R.L., 1972
 Fernald, A.T., 1979
 Fernald, A.T., 1983a
 Fiero, G.W., and Illian, J.R., 1969
 Fiero, G.W., et al., 1968
 Foglesong, M.T., 1991
 Foglesong, M.T., 1993
 French, R.H., 1984a
 French, R.H., and Hess, J.W., in press
 French, R.H., and Lombardo, W.S., 1984
 French, R.H., et al., 1984a
 French, R.H., et al., 1984b
 Fridrich, C.J., et al., 1994
 Fried, Sherman, 1979
 Galloway, Devin, 1986
 Garber, M.S., 1963a
 Garber, M.S., 1965
 Garber, M.S., 1971a
 Garber, M.S., 1971b
 Garber, M.S., and Johnston, R.H., 1967
 Garber, M.S., and Koopman, F.C., 1968
 Garber, M.S., and Thordarson, William, 1962
 Gardner, G.G., and Brikowski, T.H., 1993
 Gardner, T.W., et al., 1988
 Gaynor, R.K., 1984
 Giles, K.R., 1976
 Ginanni, J.M., et al., 1993
 Glanzman, V.M., 1986b
 Goldberg, M.C., et al., 1962
 Gonzalez, D.D., et al., 1973
 Grove, D.B., 1970
 Grove, D.B., 1971
 Grove, D.B., et al., 1969
 Hadley, G.R., 1984
 Haimson, B.C., 1982
 Haldeman, D.L., et al., 1994

HYDROGEOLOGY (continued)

- Hale, W.E., et al., 1963
Hanes, W.T., 1976
Hansen, D.S., 1978
Hansen, D.S., et al., 1978
Hanson, J.M., 1984
Hanson, J.M., 1985
Hanson, J.M., and Hearst, J.R., 1985
Hardin, E.L., et al., 1985
Harrill, J.R., et al., 1988
Hawkins, W.L., et al., 1987
Hawkins, W.L., et al., 1990
Hawkins, W.L., et al., 1992a
Hawkins, W.L., et al., 1992b
Hawkins, W.L., et al., 1993
Hazleton-Nuclear Science Corp., 1965
Hershey, R.L., and Brikowski, T.H., 1995
Hershey, R.L., and Gillespie, D.R., 1993
Hess, A.E., and Paillet, F.L., 1991
Hess, J.W., and Jacobson, R.L., 1984
Hess, J.W., et al., 1988
Higgins, G.H., 1959
Hoffman, D.C., 1977b
Hoffman, D.C., 1979
Hoffman, D.C., and Daniels, W.R., 1981a
Hoffman, D.C., and Daniels, W.R., 1981b
Hoffman, D.C., and Daniels, W.R., 1983
Hoffman, D.C., and Daniels, W.R., 1984
Hoffman, D.C., et al., 1977
Hoffman, D.C., et al., 1983a
Hoffman, D.C., et al., 1983b
Holloway, R.W., et al., 1989
Hunt, C.B., et al., 1966
Hunt, J.R., 1989
Ingraham, N.L., et al., 1990
Isherwood, D.J., 1977
Isherwood, D.J., et al., 1981
Isherwood, D.J., et al., 1982
IT Corporation, in preparation a
IT Corporation, in preparation b
IT Corporation, in preparation c
IT Corporation, in preparation e
IT Corporation, in preparation f
Jacobson, R.L., 1982
Jacobson, R.L., et al., 1986
Jarvis, A.N., 1992
Johannesson, K.H., et al., 1995a
Johannesson, K.H., et al., 1995b
Johnston, R.H., 1968
Kaplan, P.G., 1992
Karasaki, Kenzi, et al., 1991
Kearl, P.M., 1982
Kenneally, J.M., et al., 1994
Kenneally, J.M., et al., 1995
Kessler, J.H., and Hunt, J.R., 1994
Kilroy, K.C., 1989
Kilroy, K.C., 1991
Kingston, W.L., 1989
Kingston, W.L., et al., 1988
Knowlton, G.D., and McKague, H.L., 1976a
Knowlton, G.D., and McKague, H.L., 1976b
Knox, J.B., et al., 1965
Kroitoru, Levy, et al., 1991
Kubik, P.W., et al., 1990
Kume, Jack, and Hammermeister, D.P., 1990
Kume, Jack, and Hammermeister, D.P., 1991
La Camera, R.J., and Westenburg, C.L., 1994
Lacznia, R.J., et al., 1996
Langer, W.H., et al., 1984
Laul, J.C., and Maiti, T.C., 1990
Leap, D.I., 1982
Leap, D.I., and Mai, P.A., 1985
Leary, K.D., 1990
Light, W.B., et al., 1990
Lin, Wunan, 1978
Lin, Wunan, and Daily, W.D., 1984
Lin, Wunan, and Daily, W.D., 1990
Lindstrom, F.T., et al., 1992
Lipman, P.W., 1966a
Livingston, D.E., et al., 1991
Lobmeyer, D.H., et al., 1983
Lobmeyer, D.H., et al., 1995
Loeltz, O.J., 1960
Los Alamos National Laboratory, 1991
Loskot, C.L., and Hammermeister, D.P., 1992
Lyles, B.F., 1990a
Lyles, B.F., 1990b
Lyles, B.F., and Mihevc, T.M., 1990a
Lyles, B.F., and Mihevc, T.M., 1990b
Lyles, B.F., and Mihevc, T.M., 1992
Lyles, B.F., and Mihevc, T.M., 1994
Lyles, B.F., et al., 1990
Lyles, B.F., et al., 1991
Lynch, A.W., and Dosch, R.G., 1979
MacLean, S.C., et al., 1978
Malmberg, G.T., and Eakin, T.E., 1962
Malmberg, G.T., and Eakin, T.E., 1964
Manger, G.E., 1965
Marshall, B.D., et al., 1993
Mattson, S.R., et al., 1989
Matuska, N.A., 1989
Maxey, G.B., and Farvolden, R.N., 1965
Maxey, G.B., and Fenske, P.R., 1974

HYDROGEOLOGY (continued)

- McKinley, P.W., et al., 1991
Means, J.L., et al., 1983
Meyer, G.L., and Smith, R.E., n.d.
Meyer, G.L., and Thordarson, William, 1963
Meyer, G.L., and Young, R.A., 1962
Mihevc, T.M., 1988
Mihevc, T.M., 1990a
Mihevc, T.M., 1992a
Miller, C.H., 1976
Miller, G.A., 1977
Moench, A.F., 1984
Montazer, Parviz, et al., 1984
Montazer, Parviz, et al., 1988
Moore, D.E., et al., 1984a
Moore, D.E., et al., 1984b
Moore, D.E., et al., 1984c
Moore, D.E., et al., 1986
Moore, J.E., 1961
Moore, J.E., et al., 1963
Morris, G.A., et al., 1971
Mower, T.E., et al., 1993
Murray, W.A., 1980
Murray, W.A., 1981
Naff, R.L., et al., 1974
Nguygen, H.D., 1995
Nimz, G.J., and Thompson, J.L., 1992
Norris, A.E., 1990
Norris, A.E., et al., 1982
Oberlander, P.L., 1978
Oberlander, P.L., 1979
O'Brien, G.M., 1991
O'Brien, G.M., 1992
O'Brien, G.M., 1993
O'Hagan, M.D., 1993
O'Hagan, M.D., and Lacznik, R.J., 1966
Ohl, J.P., 1970
Ohl, J.P., 1973
Ohl, J.P., 1975a
Ohl, J.P., 1977a
Olsson, W.A., and Teufel, L.W., 1980
Osterkamp, W.R., et al., 1994
Panian, T.F., 1986
Panian, T.F., 1987
Pawloski, G.A., 1981b
Perfect, D.L., 1994
Peterman, Z.E., et al., 1990
Peterman, Z.E., et al., 1992
Peters, R.R., and Klavetter, E.A., 1988
Pohlmann, K.F., and Andricevic, Roko, 1994
Pohlmann, K.F., et al., 1993
Pottorff, E.J., et al., 1987
Price, C.E., and Thordarson, William, 1962
Prindle, R.W., 1990
Prudic, D.E., et al., 1995
Quade, J.G., and Tingley, J.V., 1983
Quade, J.G., et al., 1995
Ramspott, L.D., and Borg, I.Y., 1977
Rasmussen, W.C., 1963
Raymond, J.R., et al., 1989
Rechard, R.P., and Schuler, K.W., 1982
Reed, W.E., 1970
Reiner, S.R., et al., 1995
Reynolds Electrical & Engineering Co., 1993a
Reynolds Electrical & Engineering Co., 1993c
Reynolds Electrical & Engineering Co., 1993d
Reynolds Electrical & Engineering Co., 1994
Rice, W.A., 1984
Rice, W.A., and Gorelick, S.M., 1985
Robie, L.S., et al., 1995
Robinson, B.P., et al., 1967
Robinson, B.P., et al., 1969
Robison, J.H., 1984a
Rojstaczer, S.A., 1987
Roller, J.C., and Black, R.A., 1961
Ross, W.C., 1990
Ross, W.C., and Wheatcraft, S.W., 1994
Rousseau, J.P., et al., 1991
Rush, F.E., 1970
Rush, F.E., et al., 1983
Rush, F.E., et al., 1984
Russell, C.E., 1987
Russell, C.E., 1993
Russell, C.E., et al., 1987
Russell, C.E., et al., 1991
Russell, C.E., et al., 1994
Russell, C.E., et al., in press
Sadler, W.R., et al., 1992
Sass, J.H., et al., 1988
Savard, C.S., 1989
Savard, C.S., 1994a
Sawyer, D.A., et al., 1991
Schoff, S.L., and Moore, J.E., 1964
Schoff, S.L., and Moore, J.E., 1968
Schoff, S.L., and Wilmarth, V.R., 1961
Schoff, S.L., and Winograd, I.J., 1961
Schoff, S.L., and Winograd, I.J., 1962a
Schoff, S.L., and Winograd, I.J., 1962b
Schroeder, N.C., et al., 1992
Schulz, R.K., et al., 1991
Scott, W.B., 1990
Sherwood, A.E., 1974
Shinn, J.H., et al., 1993

HYDROGEOLOGY (continued)

- Shipman, F.H., et al., 1974
Siefken, D.L., and Starmer, R.J., 1983
Silva, R.J., et al., 1987
Silva, R.J., et al., 1988
Sinton, P.O., 1987
Smith, D.K., et al., 1995b
Snoeberger, D.F., et al., 1971
Spencer, E.B., 1990
Stead, F.W., 1963
Stead, F.W., 1964
Stephens, D.R., et al., 1969b
Strausberg, S.I., 1967
Strausberg, S.I., 1968a
Strausberg, S.I., 1968b
Strong, W., and Conrad, S.H., 1992
Stuckless, J.S., et al., 1991
Sully, M.J., et al., 1994
Teufel, L.W., and Warpinski, N.R., 1988
Thoma, S.G., et al., 1992
Thomas, J.M., 1988a
Thomas, J.M., et al., 1986
Thompson, J.L., 1991d
Thompson, J.L., and Gilmore, J.S., 1989
Thompson, J.L., and Gilmore, J.S., 1991
Thordarson, William, 1965
Thordarson, William, 1966
Thordarson, William, 1983a
Thordarson, William, and Robinson, B.P., 1971
Thordarson, William, et al., 1962
Thordarson, William, et al., 1967
Thordarson, William, et al., 1984
Thordarson, William, et al., 1985
Travis, B.J., et al., 1983
Travis, B.J., et al., 1984
Tsang, Y.W., and Pruess, K., 1987
Tyler, S.W., 1987a
Tyler, S.W., and Jacobson, R.L., 1990
Tyler, S.W., et al., 1986
Tyler, S.W., et al., 1992
U.S. Dept. of Energy, 1993a
U.S. Dept. of Energy, 1993b
U.S. Energy Research and Development Administration, 1977
U.S. Geological Survey, 1970b
U.S. Geological Survey, 1971b
U.S. Geological Survey, 1973
U.S. Geological Survey, 1983a
U.S. Geological Survey, 1992
U.S. Geological Survey, 1995
Unger, R.W., 1994
Unknown, 1991
Waddell, R.K., 1981
Waddell, R.K., 1982
Waddell, R.K., 1984a
Waddell, R.K., 1985a
Waddell, R.K., et al., 1981
Waddell, R.K., et al., 1984
Walker, G.E., 1962a
Walker, G.E., and Eakin, T.E., 1963
Walter, G.R., 1982
Walter, G.R., 1985
Wang, J.S.Y., and Narsimhan, T.N., 1993
Weed, H.C., et al., 1976
Weeks, E.P., 1984
Weeks, E.P., and Wilson, W.E., 1984
Weir, J.E., 1967
Weir, J.E., Jr., and Nelson, J.W., 1976
West, S.W., 1969
Wheatcraft, S.W., and Burbey, T.J., 1984
Wheeler, M.L., et al., 1982
White, A.F., 1979a
White, A.F., 1981
Whitfield, M.S., et al., 1984
Whitfield, M.S., et al., 1985
Wilder, D.G., 1987
Wilmarth, V.R., et al., 1960b
Wilson, W.E., 1984a
Winograd, I.J., 1962a
Winograd, I.J., 1962b
Winograd, I.J., 1963a
Winograd, I.J., 1971a
Winograd, I.J., 1971b
Winograd, I.J., 1991
Winograd, I.J., and Doty, G.C., 1980
Winograd, I.J., and Pearson, F.J., Jr., 1976
Winograd, I.J., and Szabo, B.J., 1988
Winograd, I.J., and Thordarson, William, 1968
Winograd, I.J., and Thordarson, William, 1975
Winograd, I.J., and West, L.R., 1962
Winograd, I.J., and Young, R.A., 1965
Winograd, I.J., et al., 1971
Wolfsberg, Kurt, et al., 1980
Wood, D.B., 1992
Worts, G.F., Jr., 1963
Young, R.A., 1963a
Young, R.A., 1969a
Young, R.A., 1972a
Zielinski, R.A., and Rosholt, J.N., 1978
Zimmerman, R.W., et al., 1991

HYDROLOGY/RADIONUCLIDE MIGRATION PROGRAM

Daniels, W.R., 1978
Daniels, W.R., 1979b
Daniels, W.R., 1981a
Daniels, W.R., and Thompson, J.L., eds., 1984
Daniels, W.R., ed., 1982
Daniels, W.R., ed., 1983a
Davisson, M.L., et al., 1994
Hoffman, D.C., 1977b
Jones, M.A., comp., 1992
Marsh, K.V., 1991a
Marsh, K.V., 1992a
Marsh, K.V., 1992b
Ramspott, L.D., et al., 1979c
Scott, W.B., 1990
Silva, R.J., 1986
Smith, D.K., et al., 1996
Thompson, J.L., 1985
Thompson, J.L., 1986
Thompson, J.L., 1987
Thompson, J.L., 1988a
Thompson, J.L., 1989
Thompson, J.L., 1990
Thompson, J.L., 1991b
Thompson, J.L., 1991c
Thompson, J.L., 1992a
Thompson, J.L., 1993b
Thompson, J.L., 1994a
Thompson, J.L., 1995a
Thompson, J.L., 1995b
Travis, B.J., et al., 1983
Weeks, E.P., and Wilson, W.E., 1984

MODELING

Bochicchio, Regina, 1991
Brikowski, T.H., 1991a
Cole, J.C., et al., 1993
Czarnecki, J.B., 1984
Czarnecki, J.B., 1992
Czarnecki, J.B., and Waddell, R.K., 1984
Czarnecki, J.B., and Wilson, W.E., 1993
D'Agnese, F.A., 1994
Faunt, T.A., et al., 1987
Grossman, R.F., 1978
Hanson, J.M., and Hearst, J.R., 1985
Hestir, K., et al., 1988
Ho, C.H., 1995
IT Corporation, in preparation a
IT Corporation, in preparation b

IT Corporation, in preparation c
IT Corporation, in preparation d
IT Corporation, in preparation e
IT Corporation, in preparation f
Johnson, R.L., and Bauer, S.J., 1991
Karasaki, Kenzi, et al., 1991
Kroitoru, Levy, et al., 1991
Light, W.B., et al., 1990
Lindstrom, F.T., et al., 1993
Mao, N.H., 1983
Mao, N.H., 1985
Maxwell, D.E., and Denny, M.D., 1990
McKague, H.L., et al., 1992
Montazer, Parviz, et al., 1984
Nguyen, H.D., 1995
Oberlander, P.L., 1978
Oberlander, P.L., 1979
Peters, R.R., and Klavetter, E.A., 1988
Peters, R.R., et al., 1987
Pohlmann, K.F., et al., 1993
Prindle, R.W., 1990
Rice, W.A., 1984
Rice, W.A., and Gorelick, S.M., 1985
Rogers, L.A., 1970
Ross, W.C., 1990
Ross, W.C., and Wheatcraft, S.W., 1994
Sadler, W.R., et al., 1992
Sinton, P.O., 1987
Stead, R.J., and Helmberger, D.V., 1986
Thomas, R.K., and Lappin, A.R., 1979
Travis, B.J., et al., 1983
Travis, B.J., et al., 1984
Waddell, R.K., 1981
Waddell, R.K., 1982
Waddell, R.K., et al., 1981
Walck, M.C., 1988
Walck, M.C., and Phillips, J.S., 1990
Wheatcraft, S.W., and Burbey, T.J., 1984
Wheeler, M.L., et al., 1982
White, A.F., and Chuma, N.J., 1987

MONITORING

Arteaga, F.E., et al., 1991
Atwood, C.L., and Hertzler, C.L., 1989
Black, S.C., et al., 1992
Black, S.C., et al., 1993
Black, S.C., et al., 1994
Black, S.C., et al., 1995
Cullen, J.J., et al., 1991
Davisson, M.L., et al., 1993
Emer, D.F., and King, K.M., 1988

MONITORING (continued)

Hale, G.S., and Trudeau, D.A., 1993
Hershey, R.L., and Gillespie, D.R., 1993
Jarvis, A.N., 1992
McDowell, E.M., and Black, S.C., 1991
Montazer, Parviz, et al., 1988
Reynolds Electrical & Engineering Co., 1991
Reynolds Electrical & Engineering Co., 1993a
Russell, C.E., 1991a
Smith, D.K., et al., 1996
Thompson, C.B., and Russell, C.E., 1991
U.S. Dept. of Energy, 1993b
U.S. Environmental Protection Agency, 1976
Weir, J.E., Jr., and Nelson, J.W., 1976
Wood, D.B., 1992

NUCLEAR TESTS

Adams, W.M., et al., 1961
Aki, Keiiti, et al., 1969a
Aki, Keiiti, et al., 1969b
Anderson, D.L., et al., 1970
Anderson, E.E., ???
Anderson, G.D., and Kusubov, A.S., 1986b
Anderson, L.M., and McLaughlin, K.L., 1985
App, F.N., and Taylor, S.R., 1993
Bache, T.C., et al., 1978
Ballard, R.F., Jr., 1968
Barker, J.S., et al., 1985
Barker, J.S., et al., 1991
Barker, T.G., et al., 1981
Barosh, P.J., 1968
Basham, P.W., 1970
Beetem, W.A., et al., 1965
Boardman, C.R., 1966
Boardman, C.R., 1970
Boardman, C.R., and Skrove, J., 1966
Boardman, C.R., et al., 1966
Bond, W.D., and Clark, W.E., 1960
Borg, I.Y., 1972
Borg, I.Y., 1974
Boucher, G.W., 1973
Brikowski, T.H., 1991b
Brikowski, T.H., 1992
Brikowski, T.H., 1993a
Brockman, S.R., et al., 1984
Carr, W.J., et al., 1975b
Carter, L.D., et al., 1967
Cattermole, J.M., and Hansen, W.R., 1962
Chael, E.P., 1988
Chael, E.P., et al., 1987

Chen, T.C., 1981
Cherry, J.T., et al., 1968
Chun, K.-Y., and McEvilly, T.V., 1981
Claassen, H.C., 1981
Clebsch, Alfred, Jr., 1959
Clebsch, Alfred, Jr., 1960
Cogbill, A.H., et al., 1989
Covington, H.R., 1987
Crow, N.B., 1976
Crowley, B.K., and Germain, L.S., 1971
Davis, L.L., and Lynch, R.D., 1970a
Davis, L.L., and Lynch, R.D., 1970b
Davis, R.E., et al., 1965
Dickey, D.D., 1968
Dickey, D.D., and Ellis, W.L., 1970
Dickey, D.D., and Hassemer, J.H., 1974
Dickey, D.D., et al., 1967
Dickey, D.D., et al., 1969a
Dickey, D.D., et al., 1969b
Diment, W.H., 1959
Diment, W.H., et al., 1959f
Dudley, W.W., et al., 1971
Eckel, E.B., 1959
Edwards, C.L., et al., 1983
Ellis, W.L., and Kibler, J.D., 1983
Environmental Research Corporation, 1974
Essington, E.H., and Sharp, J.V.A., 1968
Fairer, G.M., et al., 1979
Fenske, P.R., and Charnell, R.L., 1971
Fenske, P.R., and Charnell, R.L., 1972
Fleischer, R.L., et al., 1974
Garber, M.S., 1963a
Garber, M.S., 1965
Garber, M.S., 1971a
Garber, M.S., 1971b
Garber, M.S., and Wollitz, L.E., 1969
Gibbons, A.B., 1960
Gillespie, D.R., et al., 1995
Glanzman, V.M., 1980a
Glanzman, V.M., 1981
Glanzman, V.M., 1983
Glanzman, V.M., 1984a
Glanzman, V.M., 1985
Glanzman, V.M., 1986a
Glanzman, V.M., 1992
Glaser, R.E., et al., 1986
Golden, B.G., 1995
Goldstein, Peter, et al., 1993
Grossman, R.F., 1978
Gupta, I.N., et al., 1992
Hadley, D.M., and Helmberger, D.V., 1979
Hale, W.E., et al., 1963

NUCLEAR TESTS (continued)

Hales, A.L., and Maki-Lopez, M.L., 1980
 Hamilton, R.M., et al., 1969a
 Hamilton, R.M., et al., 1970
 Hanson, J.M., 1985
 Harmsen, S.C., 1991a
 Harmsen, S.C., 1992a
 Hazleton-Nuclear Science Corp., 1965
 Healey, D.L., et al., 1967
 Healy, J.H., and Hamilton, R.M., 1969
 Hearst, J.R., 1986
 Helmberger, D.V., and Hadley, D.M., 1981
 Henny, R.W., 1977
 Hestir, K., et al., 1988
 Heuze, F.E., 1982
 Higgins, G.H., 1959
 Hoffman, D.C., and Daniels, W.R., 1981a
 Hoffman, D.C., and Daniels, W.R., 1981b
 Hoffman, D.C., and Daniels, W.R., 1983
 Hoffman, D.C., and Daniels, W.R., 1984
 Hoffman, D.C., and Stone, J.R., 1977
 Hoffman, D.C., et al., 1977
 Hoffman, D.C., et al., 1983a
 Hoffman, D.C., et al., 1983b
 Holzer, A., 1970
 Houser, F.N., 1969a
 Houser, F.N., and Eckel, E.B., 1962
 Houser, F.N., and Emerick, W.L., 1964
 Howard, N.W., 1976
 Howard, N.W., 1979a
 Howard, N.W., 1983
 Howard, N.W., 1985
 James, O.B., 1969
 Jarpe, S.P., et al., 1994
 Jenkins, E.C., 1973
 Johnson, R.B., and Ege, J.R., 1964
 Kinoshita, W.T., and Savage, J.C., 1971
 Knox, J.B., et al., 1965
 Kubik, P.W., et al., 1990
 Lee, F.T., and Nichols, T.C., Jr., 1972
 Leisek, J.F., 1964
 Maldonado, Florian, 1977a
 Maldonado, Florian, 1977b
 Maldonado, Florian, 1977c
 Mathews, M.A., et al., 1991
 Mathews, M.A., et al., 1994
 Maxey, G.B., and Fenske, P.R., 1974
 Mayeda, K.M., et al., 1993
 McKague, H.L., et al., 1992
 McKeown, F.A., and Dickey, D.D., 1960
 McKeown, F.A., et al., 1959

McLaughlin, K.L., and Johnson, L.R., 1980
 Miller, C.H., and Miller, D.R., 1977
 Miller, C.H., et al., 1974b
 Miller, C.H., et al., 1975b
 Murphey, B.F., 1961
 Murphy, J.R., 1991
 Murphy, J.R., and Bennett, T.J., 1981
 Murphy, J.R., et al., 1987
 Nguyen, B.V., 1989
 Norden, J.A.E., 1961
 Nordyke, M.D., 1961
 Nordyke, M.D., 1962
 Nordyke, M.D., and Williamson, M.M., 1965
 Nugent, R.C., and Banks, D.C., 1965a
 Nugent, R.C., and Banks, D.C., 1965b
 Nugent, R.C., and Girucky, F.E., 1968
 Nuttli, O.W., 1983
 Nuttli, O.W., 1986
 Ogard, A.E., et al., 1988
 Olsen, C.W., 1970
 Olsen, C.W., and Donohue, M.L., 1985
 Olsen, C.W., and Price, M.E., 1991
 Olsen, K.H., and Peratt, A.L., 1994
 Pearson, D.C., et al., 1993
 Perret, W.R., 1976
 Perret, W.R., 1978
 Phillips, J.S., 1991
 Pohlmann, K.F., et al., 1993
 Poole, F.G., and Roller, J.C., 1960
 Rawson, D.E., and Borg, I.Y., 1970
 Reed, W.E., 1970
 Richards, W.D., 1964
 Rogers, L.A., 1970
 Russell, G.M., and Locke, G.L., in press
 Ryall, Alan, and Savage, W.U., 1969
 Saucier, R.T., and Wire, J.C., 1964
 Savage, J.C., et al., 1974
 Scott, J.H., et al., 1964
 Short, N.M., 1969
 Smith, D.K., 1993a
 Smith, D.K., 1994a
 Smith, D.K., 1995a
 Smith, D.K., 1995b
 Smith, D.K., et al., 1995a
 Smith, D.K., et al., 1995b
 Snyder, R.P., 1970
 Stauder, William, 1971
 Spruill, J.L., 1965
 Stead, F.W., 1963
 Stead, F.W., 1964
 Steele, S.G., and Fairer, G.M., 1978
 Steele, S.G., and Snyder, R.P., 1972

NUCLEAR TESTS (continued)

Steele, S.G., and Snyder, R.P., 1973
Sweeney, J.J., 1986
Taylor, S.R., et al., 1987
Taylor, S.R., et al., 1989
Thompson, J.L., 1993a
Tonander, K.E., 1993
Townsend, D.R., and Baldwin, M.J., 1982
Townsend, D.R., et al., 1982
Twenhofel, W.S., et al., 1981
Twenhofel, W.S., et al., 1983
Tyler, S.W., et al., 1992
U.S. Army Engineer Waterways Experiment Station, 1964
U.S. Geological Survey, 1970
U.S. Geological Survey, 1971b
U.S. Geological Survey, 1973
U.S. Geological Survey, 1974
U.S. Geological Survey, 1976a
U.S. Geological Survey, 1978
U.S. Geological Survey, 1979
U.S. Geological Survey, 1982
U.S. Geological Survey, 1990
Vergino, E.S., et al., 1986
West, S.W., 1969
Wilmarth, V.R., 1959a
Wilmarth, V.R., and McKeown, F.A., 1960
Wilmarth, V.R., et al., 1960a

OASIS VALLEY

Malmberg, G.T., and Eakin, T.E., 1962
Malmberg, G.T., and Eakin, T.E., 1964
White, A.F., 1979a
White, A.F., and Chuma, N.J., 1987

PAHUTE MESA

Barker, J.S., et al., 1991
Blankennagel, R.K., 1965
Blankennagel, R.K., 1967
Blankennagel, R.K., 1968
Blankennagel, R.K., and Weir, J.E., 1972
Blankennagel, R.K., and Weir, J.E., 1973
Blankennagel, R.K., et al., 1964
Boyd, O.S., et al., 1992
Brethauer, G.E., 1979
Brikowski, T.H., 1993a
Brikowski, T.H., et al., 1993
Covington, H.R., 1989
Crowe, B.M., and Sargent, K.A., 1979

Dale, D.A., and Seaber, P.R., 1993
Dickey, D.D., 1962
Dickey, D.D., and Ellis, W.L., 1970
Dickey, D.D., and Emerick, W.L., 1961
Dickey, D.D., and Emerick, W.L., 1962
Dudley, W.W., et al., 1971
Erikson, S.J., 1991
Gardner, G.G., and Brikowski, T.H., 1993
Gillson, R.G., 1993
Gillson, R.G., et al., 1992
Hamilton, R.M., et al., 1969b
Hamilton, R.M., et al., 1971
Hamilton, R.M., et al., 1972
Hershey, R.L., and Brikowski, T.H., 1995
Jenkins, E.C., 1969
Jenkins, E.C., 1970
Kosowski, B.A., et al., 1978
Laczniak, R.J., et al., 1996
Lee, F.T., and Nichols, T.C., Jr., 1972
Leonard, M.A., and Johnson, L.R., 1984
Maldonado, Florian, 1977a
Maldonado, Florian, 1977c
McArthur, R.D., and Mead, S.W., 1988
McKeown, F.A., 1975
Meyer, G.L., and Thordarson, William, 1963
Minor, S.A., et al., 1993
Moncure, G.K., 1980
Moncure, G.K., et al., 1981
Morris, R.H., et al., 1970
O'Hagan, M.D., 1993
Orkild, P.P., 1970a
Orkild, P.P., and Jenkins, E.C., 1970
Orkild, P.P., and Jenkins, E.C., 1978
Orkild, P.P., et al., 1969
Phillips, J.S., 1991
Pottorff, E.J., et al., 1987
Rogers, A.M., 1977b
Russell, G.M., and Locke, G.L., in press
Sargent, K.A., 1969a
Sargent, K.A., 1969c
Scott, P., and Helmberger, D.V., 1981
Snyder, R.P., 1971
Snyder, R.P., 1973a
Snyder, R.P., 1975a
Snyder, R.P., 1976
Snyder, R.P., and Rogers, Susan, 1972
U.S. Geological Survey, 1970b
U.S. Geological Survey, 1971b
U.S. Geological Survey, 1973
Vortman, L.J., and Long, J.W., 1982
Walck, M.C., and Phillips, J.S., 1990
Warren, R.G., 1983b

PAHUTE MESA (continued)

Warren, R.G., 1983c
Warren, R.G., et al., 1985
Weir, J.E., 1967

RADIOACTIVE WASTE MANAGEMENT AND STORAGE SITES

Albright, J.N., et al., 1994
Atwood, C.L., and Hertzler, C.L., 1989
Bath, G.D., et al., 1983b
Bedinger, M.S., et al., 1989a
Bedinger, M.S., et al., 1989c
Beiriger, J.M., et al., 1985
Bell, E.J., and Larson, L.T., 1982a
Bell, E.J., and Larson, L.T., 1982b
Blout, D.O., et al., 1994
Carr, W.J., et al., 1983
Case, C.M., et al., 1984a
Case, C.M., et al., 1992
Chapman, J.B., 1993
Daffern, D.D., et al., 1990
Daniels, W.R., et al., 1982a
Daniels, W.R., et al., 1982c
Daniels, W.R., et al., 1983
Davis, J.M., 1992
Dixon, G.L., and Glanzman, V.M., 1982
Dixon, G.L., and Glanzman, V.M., 1984
Dixon, G.L., and Hoover, D.B., 1982
Dixon, G.L., et al., 1980
Dozier, B.L., and Rawlinson, S.E., 1991
Dudley, W.W., 1977a
Estrella, Rocio, 1994a
Estrella, Rocio, et al., 1993
Flanigan, V.J., 1979
French, R.H., 1980
French, R.H., and Lombardo, W.S., 1984
French, R.H., et al., 1984a
French, R.H., et al., 1984b
Ginanni, J.M., et al., 1993
Glanzman, V.M., 1980a
Glanzman, V.M., 1981
Glanzman, V.M., 1983
Glanzman, V.M., 1984a
Glanzman, V.M., 1985
Glanzman, V.M., 1986a
Glanzman, V.M., 1986b
Glanzman, V.M., 1992
Ho, C.H., 1995
Holmes and Narver, 1988
Hoover, D.L., and Morrison, J.N., 1980

Istok, J.D., et al., 1994
Jarvis, A.N., 1992
Johnstone, J.K., and Wolfsberg, Kurt, eds., 1980a
Johnstone, J.K., and Wolfsberg, Kurt, eds., 1980b
Lindstrom, F.T., et al., 1993
Mercer, J.W., et al., eds., 1983
Metcalf, L.M., 1983
Nguyen, H.D., 1995
Patrick, W.C., 1986a
Patrick, W.C., 1986b
Ponce, D.A., 1981a
Ponce, D.A., 1981b
Ponce, D.A., 1984
Pratt, H.R., et al., 1978
Purson, J.D., 1983
Ramspott, L.D., and Ballou, L.B., 1980
Ramspott, L.D., and Borg, I.Y., 1977
Ramspott, L.D., et al., 1979a
Ramspott, L.D., et al., 1979b
Ramspott, L.D., et al., 1981
Raytheon Services Nevada, 1991
Raytheon Services Nevada, 1993a
Raytheon Services Nevada, 1993b
Raytheon Services Nevada, 1994a
Raytheon Services Nevada, 1994b
Reynolds Electrical & Engineering Co., 1993c
Reynolds Electrical & Engineering Co., 1994
Rothermich, N.E., and Vollmer, A.T., 1986
Schmeltzer, J.S., et al., 1993
Shott, G.J., et al., 1995
Siefken, D.L., and Starmer, R.J., 1983
Snyder, K.E., and Gustafson, D.L., 1994
Snyder, K.E., et al., 1993
Snyder, K.E., et al., 1994
Snyder, K.E., et al., 1995
Stockman, H.W., 1992
Thomas, R.K., and Lappin, A.R., 1979
Thompson, J.L., 1994b
Tsang, Y.W., and Pruess, K., 1987
U.S. Geological Survey, 1984
Vortman, L.J., and Long, J.W., 1982
Waddell, R.K., 1981
Wilder, D.G., and Patrick, W.C., 1981
Wilder, D.G., and Yow, J.L., 1984
Wollenberg, H.A., et al., 1983
Yow, J.L., 1984a

RADIONUCLIDES

Andricevic, Roko, et al., 1993
Andricevic, Roko, et al., 1994
Ansbaugh, L.R., et al., 1973

RADIONUCLIDES (continued)

- Atwood, C.L., and Hertzler, C.L., 1989
 Bakhtiar, S.N., 1990
 Ballou, L.B., et al., 1984
 Beetem, W.A., et al., 1962
 Benjamin, T.M., 1995
 Benson, L.V., 1976
 Benson, L.V., and Kleiforth, H., 1989
 Blankennagel, R.K., et al., 1986
 Bliss, W.A., and Dunn, L., 1971
 Bond, W.D., and Clark, W.E., 1959
 Bond, W.D., and Clark, W.E., 1960
 Borg, I.Y., et al., 1976a
 Borg, I.Y., et al., 1976b
 Borg, I.Y., et al., 1977
 Brikowski, T.H., 1991a
 Bunker, C.M., and Shutler, M.D., 1962a
 Burbey, T.J., 1984a
 Bryant, E.A., 1992a
 Bryant, E.A., 1992b
 Cerling, T.E., and Quade, J.G., 1991
 Chapman, J.B., et al., 1995
 Claassen, H.C., 1981
 Clebsch, Alfred, Jr., 1961
 Cleveland, J.M., et al., 1983
 Cole, J.C., 1987
 Coles, D.G., and Ramspott, L.D., 1982
 Coles, D.G., et al., 1978
 Coles, D.G., et al., 1979
 Coles, D.G., et al., 1980
 Copenhaver, S.A., et al., 1990
 Copenhaver, S.A., et al., 1992
 Crow, N.B., 1976
 Czarnecki, J.B., 1984
 Daniels, W.R., comp., 1981b
 Daniels, W.R., comp., 1981c
 Daniels, W.R., comp., 1981d
 Daniels, W.R., and Wolfsberg, Kurt, 1981
 Daniels, W.R., et al., 1978
 Davisson, M.L., et al., 1993
 Dickey, D.D., and Emerick, W.L., 1962
 EG & G Energy Measurements, Inc., 1987
 Emerick, W.L., 1962a
 Erdal, B.R., 1979a
 Erdal, B.R., 1979b
 Erdal, B.R., 1979c
 Erdal, B.R., 1980a
 Erdal, B.R., 1980b
 Erdal, B.R., 1980c
 Erdal, B.R., 1980d
 Erdal, B.R., et al., 1978a
 Erdal, B.R., et al., 1978b
 Erdal, B.R., et al., 1979
 Erickson, K.L., 1978
 Erickson, K.L., and Fortney, D.R., 1981a
 Erickson, K.L., and Fortney, D.R., 1981b
 Erikson, S.J., 1991
 Erikson, S.J., and Jacobson, R.L., in press
 Essington, E.H., et al., 1970
 Essington, E.H., et al., 1975
 Essington, E.H., et al., 1977
 Failor, R.A., et al., 1983
 Feeney, T.A., et al., 1987
 Flexser, Steve, and Wollenberg, H.A., 1992
 Foley, T.A., 1981
 French, R.H., and Hess, J.W., in press
 Fried, Sherman, 1979
 Garber, M.S., 1971a
 Grove, D.B., 1970
 Hague, R.S., 1987
 Hansen, D.S., 1978
 Hansen, D.S., et al., 1978
 Hearst, J.R., 1986
 Higgins, G.H., 1959
 Hoffman, D.C., 1977b
 Hoffman, D.C., 1979
 Hoffman, D.C., and Daniels, W.R., 1981a
 Hoffman, D.C., and Daniels, W.R., 1981b
 Hoffman, D.C., and Daniels, W.R., 1983
 Hoffman, D.C., and Daniels, W.R., 1984
 Hoffman, D.C., and Stone, J.R., 1977
 Hoffman, D.C., et al., 1977
 Hoffman, D.C., et al., 1983a
 Hoffman, D.C., et al., 1983b
 Holloway, R.W., et al., 1989
 Hoover, D.L., et al., 1978
 Ingraham, N.L., et al., 1990
 Isherwood, D.J., 1977
 Isherwood, D.J., et al., 1981
 IT Corporation, in preparation e
 IT Corporation, in preparation f
 Jarvis, A.N., 1992
 Johannesson, K.H., et al., 1995b
 Kautsky, M., 1984a
 Kenneally, J.M., et al., 1994
 Kistler, R.W., 1968
 Kubik, P.W., et al., 1990
 Laul, J.C., and Maiti, T.C., 1990
 Leap, D.I., and Mai, P.A., 1985
 Lee, S.Y., et al., 1987a
 Lee, S.Y., et al., 1987b
 Light, W.B., et al., 1990
 Lindstrom, F.T., et al., 1993

RADIONUCLIDES (continued)

Los Alamos National Laboratory, 1991
Lyles, B.F., 1990a
Lyles, B.F., 1990b
Lyles, B.F., 1992
Lyles, B.F., 1993b
Lynch, A.W., and Dosch, R.G., 1979
MacLean, S.C., et al., 1978
Marshall, B.D., et al., 1993
Mathews, M.A., et al., 1994
McArthur, R.D., 1991
McArthur, R.D., and Kordas, J.F., 1985
McArthur, R.D., and Mead, S.W., 1987
McArthur, R.D., and Mead, S.W., 1988
Means, J.L., et al., 1983
Naeser, C.W., and Maldonado, Florian, 1981
Nimz, G.J., and Thompson, J.L., 1992
Nork, W.E., et al., 1971
Norris, A.E., 1990
Norris, A.E., et al., 1982
Ogard, A.E., et al., 1988
Ortiz, Cynthia, 1986
Peterman, Z.E., et al., 1990
Peterman, Z.E., et al., 1992
Raymond, J.R., et al., 1989
Rosholt, J.N., et al., 1984
Rosholt, J.N., et al., 1985
Ross, W.C., 1990
Ross, W.C., and Wheatcraft, S.W., 1994
Russell, G.M., and Locke, G.L., in press
Sadler, W.R., et al., 1992
Schroeder, N.C., et al., 1992
Schulz, R.K., et al., 1991
Semken, S.C., 1984
Semken, S.C., and DePaolo, D.J., 1983
Shinn, J.H., et al., 1993
Shroba, R.R., et al., 1988b
Silva, R.J., et al., 1986
Silva, R.J., et al., 1987
Silva, R.J., et al., 1988
Smith, D.K., 1993a
Smith, D.K., 1995a
Smith, D.K., et al., 1995a
Smith, D.K., et al., 1995b
Smith, D.K., et al., 1996
Smith, M.E., and Carnahan, C.L., 1968
Spencer, E.B., 1990
Stead, F.W., 1963
Stead, F.W., 1964
Szabo, B.J., et al., 1981
Thomas, J.M., 1988a

Thomas, K.W., 1987
Thompson, J.L., 1993a
Thompson, J.L., and Gilmore, J.S., 1989
Thompson, J.L., and Gilmore, J.S., 1991
Thompson, J.L., 1991a
Thorpe, R.K., and Springer, J.E., 1981
Travis, B.J., et al., 1983
Treher, E.N., and Raybold, N.A., 1982
U.S. Dept. of Energy, 1986
U.S. Dept. of Energy, 1988
Walter, G.R., 1982
Walter, G.R., 1985
Weed, H.C., et al., 1976
Wheatcraft, S.W., and Burbey, T.J., 1984
Wheeler, M.L., et al., 1982
Winograd, I.J., and Pearson, F.J., Jr., 1976
Wolfsberg, Kurt, 1978a
Wolfsberg, Kurt, et al., 1979
Wolfsberg, Kurt, et al., 1980
Wolfsberg, Kurt, et al., 1981
Zielinski, R.A., and Rosholt, J.N., 1978

RAINIER MESA

Allingham, J.W., 1968
Benson, L.V., 1976
Bowers, W.E., 1964
Brethauer, G.E., 1980a
Brethauer, G.E., 1980b
Carroll, R.D., 1986
Carroll, R.D., 1989
Carroll, R.D., 1990
Carroll, R.D., 1994
Carroll, R.D., and Cunningham, M.J., 1978
Carroll, R.D., and Kibler, J.E., 1983
Carroll, R.D., and Magner, J.E., 1986
Carroll, R.D., and Magner, J.E., 1988
Cattermole, J.M., and Hansen, W.R., 1962
Clebsch, Alfred, Jr., and Baker, F.B., 1960
Connolly, J.R., and Keil, Klaus, 1985
Connolly, J.R., et al., 1983b
Connolly, J.R., et al., 1984
Danilchuk, Walter, 1969
Diehl, S.F., et al., 1990
Diehl, S.F., et al., 1991
Diment, W.H., et al., 1959b
Diment, W.H., et al., 1959c
Diment, W.H., et al., 1959d
Diment, W.H., et al., 1959e
Diment, W.H., et al., 1959f
Duba, A.G., et al., 1973
Duff, R.E., 1978

RAINIER MESA (continued)

Ege, J.R., 1977
Ege, J.R., and Cunningham, M.J., 1976
Ege, J.R., et al., 1980a
Ege, J.R., et al., 1980b
Ellis, W.L., and Ege, J.R., 1976
Ellis, W.L., and Magner, J.E., 1980
Emerick, W.L., 1962a
Emerick, W.L., and Dickey, D.D., 1962
Emerick, W.L., and Houser, F.N., 1962
Emerick, W.L., et al., 1962
Fairer, G.M., 1975
Fairer, G.M., et al., 1979
Gibbons, A.B., et al., 1963
Goldstein, Peter, et al., 1993
Hansen, W.R., and Lemke, R.W., 1959
Hansen, W.R., et al., 1963
Hasler, J.W., 1963
Hazelwood, R.M., 1961
Hess, J.W., et al., 1988
Hoover, D.L., and Magner, J.E., 1990
Houser, F.N., 1962a
Jacobson, R.L., et al., 1986
Johnson, L.R., 1994a
Keller, G.V., 1962
Kerrisk, J.F., 1983
Lappin, A.R., and Nimick, F.B., 1985
Majer, E.L., et al., 1994
McKeown, F.A., and Dickey, D.D., 1961
McKeown, F.A., et al., 1959
Miller, C.H., 1976
Miller, C.H., et al., 1975b
Minor, S.A., 1989
Norris, A.E., et al., 1982
Obert, Leonard, 1964
Rousseau, J.P., et al., 1991
Russell, C.E., 1987
Russell, C.E., 1989
Russell, C.E., 1993
Russell, C.E., et al., 1987
Russell, C.E., et al., in press
Sargent, K.A., and Orkild, P.P., 1973
Smith, Christian, et al., 1981a
Steele, S.G., and Fairer, G.M., 1978
Terry, S.S., 1975
Terry, S.S., and Cunningham, M.J., 1975
Thordarson, William, 1965
Thordarson, William, 1966
U.S. Geological Survey, 1978
U.S. Geological Survey, 1979
Wahl, R.R., 1969

Warpinski, N.R., and Teufel, L.W., 1991
Wilmarth, V.R., et al., 1960a

RECHARGE

Avon, Lizanne, and Durbin, T.J., 1994
Case, C.M., et al., 1992
Claassen, H.C., 1983
Clebsch, Alfred, Jr., 1961
Czarnecki, J.B., 1985
Czarnecki, J.B., 1991
Dettinger, M.D., 1989b
Detty, T.E., et al., 1993
Doty, G.C., and Rush, F.E., 1984
French, R.H., 1987
French, R.H., and Jacobson, R.L., 1994
Gibson, J.D., 1993a
Gillespie, D.R., et al., 1995
Kao, C.S., et al., 1994
Leary, K.D., 1990
Los Alamos National Laboratory, 1991
Lyles, B.F., and Mihevc, T.M., 1990a
Lyles, B.F., and Mihevc, T.M., 1990b
Lyles, B.F., and Mihevc, T.M., 1992
Malmberg, G.T., and Eakin, T.E., 1964
Norris A.E., et al., 1987
Osterkamp, W.R., et al., 1994
Peters, R.R., et al., 1987
Rasmussen, W.C., 1963
Savard, C.S., 1994a
Strong, W., and Conrad, S.H., 1992
Tyler, S.W., et al., 1986
Tyler, S.W., et al., 1992

SOILS

Bliss, W.A., and Dunn, L., 1971
Essington, E.H., et al., 1975
Essington, E.H., et al., 1977
Hoover, D.L., 1989a
Hoover, D.L., et al., 1981
Istok, J.D., et al., 1994
Jones, B.F., 1982
Kao, C.S., et al., 1994
Kautsky, M., 1984a
Kearl, P.M., 1982
Knauss, K.G., 1981a
Knauss, K.G., 1981b
Lee, S.Y., et al., 1987a
Lee, S.Y., et al., 1987b
McArthur, R.D., 1991
McKague, H.L., et al., 1979

SOILS (continued)

Morris, G.A., et al., 1971
Murphey, B.F., 1961
Nordyke, M.D., 1962
Olsen, C.W., 1970
Panian, T.F., 1986
Pawloski, G.A., 1981a
Perret, W.R., 1978
Peterson, F.F., et al., 1995
Pezzopane, S.K., et al., 1994
Rothermich, N.E., and Vollmer, A.T., 1986
Shroba, R.R., 1983
Shroba, R.R., et al., 1988a
Spengler, R.W., and Glanzman, V.M., 1980
Stockman, H.W., 1992
Swadley, W.C., and Huckins, H.E., 1990
Swadley, W.C., et al., 1995
Vander Zouwen, D.E., et al., 1981
Wagoner, J.L., 1981a
Wagoner, J.L., 1987
Weeks, E.P., 1984
Wolfsberg, Kurt, 1978a

STRATIGRAPHY

Barker, C.E., 1994
Barker, C.E., 1995
Barnes, Harley, 1962
Barnes, Harley, and Byers, F.M., Jr., 1961
Barnes, Harley, and Christiansen, R.L., 1967
Barnes, Harley, and Palmer, A.R., 1961
Barnes, Harley, et al., 1962
Barosh, P.J., 1967
Barr, G.E., 1985
Bish, D.L., 1981
Carr, W.J., et al., 1984a
Carr, W.J., et al., 1986
Cashman, P.H., and Trexler, J.H., Jr., 1991
Cashman, P.H., and Trexler, J.H., Jr., 1992
Cashman, P.H., and Trexler, J.H., Jr., 1994
Cashman, P.H., et al., 1994
Caskey, S.J., 1991
Clebsch, Alfred, Jr., 1959
Clebsch, Alfred, Jr., 1960
Cole, J.C., et al., 1994b
Diment, W.H., et al., 1959b
Dinwiddie, G.A., 1978
Dinwiddie, G.A., and Weir, J.E., Jr., 1979
Dixon, G.L., et al., 1973a
Dixon, G.L., et al., 1973c
Dixon, G.L., et al., 1975

Dixon, G.L., et al., 1976
Douglas, A.C., and Millett, M.R., 1978
Doyle, A.C., and Meyer, G.L., 1982
Drellack, S.L., and Cavazos, A.P., 1986
Drellack, S.L., and Cavazos, A.P., 1987
Drellack, S.L., and Thompson, P.H., 1990
Drellack, S.L., et al., 1982
Drellack, S.L., et al., 1983
Drellack, S.L., et al., 1984
Drellack, S.L., et al., 1989b
Drellack, S.L., et al., in press
Fernald, A.T., et al., 1975
Gonzales, J.L., et al., 1985
Gordon, Mackenzie, Jr., and Poole, F.G., 1968
Grothaus, B., and Howard, N., 1977
Hansen, W.R., et al., 1963
Hazelwood, R.M., 1961
Hinrichs, E.N., 1973
Hinrichs, E.N., and Orkild, P.P., 1961
Hoover, D.B., et al., 1979
Howard, N.W., and Bell, C.A., 1983
Howard, N.W., and Bell, C.A., 1984
Howard, N.W., et al., 1985
Keller, G.V., 1959a
Lappin, A.R., and Nimick, F.B., 1985
Lin, Wunan, 1978
Maldonado, Florian, and Koether, S.L., 1983
Marvin, R.F., et al., 1970
McKeown, F.A., et al., 1976
Nitchman, S.P., 1990
Noble, D.C., 1965a
Orkild, P.P., 1965a
Pawloski, G.A., et al., 1992
Poole, F.G., and McKeown, F.A., 1962
Poole, F.G., et al., 1961
Poole, F.G., et al., 1965
Rodriguez, E.A., and Yount, J.C., 1988
Saltus, R.W., 1994
Sargent, K.A., 1965a
Swadley, W.C., et al., 1984
Swadley, W.C., et al., 1995
Sweeney, J.J., 1983
Sweeney, J.J., 1984
Thompson, P.H., and Drellack, S.L., 1988
Wagoner, J.L., and Richardson, W.W., 1986
Warren, R.G., et al., 1989

STRUCTURAL GEOLOGY

Alexander, S.S., 1983
Ander, H.D., 1983
Ander, H.D., 1984

STRUCTURAL GEOLOGY (continued)

- Ander, H.D., and Oldow, J.S., 1983
Bache, T.C., et al., 1978
Ballard, R.F., Jr., 1968
Barnes, Harley, and Poole, F.G., 1968
Barosh, P.J., 1967
Barosh, P.J., 1968
Barton, C.A., et al., 1995
Barton, C.C., 1986
Blume, J.A., 1970
Borg, I.Y., 1972
Borg, I.Y., 1974
Carr, W.J., 1974a
Carr, W.J., 1974b
Carr, W.J., 1984a
Carr, W.J., 1984b
Carr, W.J., 1990
Carr, W.J., and Quinlivan, W.D., 1968
Cashman, P.H., et al., 1994
Caskey, S.J., 1991
Caskey, S.J., and Schweickert, R.A., 1989
Caskey, S.J., and Schweickert, R.A., 1992
Christiansen, R.L., et al., 1965
Cole, J.C., et al., 1989
Cole, J.C., et al., 1994a
Cole, J.C., et al., 1994b
Cook, K.L., et al., 1966
Cormier, V.F., 1985
Cormier, V.F., 1986
Cormier, V.F., 1987a
Cormier, V.F., 1987b
Covington, H.R., 1989
Crowe, B.M., et al., 1980
Dettinger, M.D., 1987
Dickey, D.D., 1968
Dickey, D.D., and Ellis, W.L., 1970
Diehl, S.F., et al., 1990
Diehl, S.F., et al., 1991
Diment, W.H., et al., 1961
Elwood, Rebecca, et al., 1985a
Elwood, Rebecca, et al., 1985b
Ferguson, J.F., et al., 1994
Foley, M.G., et al., 1991
Fridrich, C., and O'Leary, Dennis, 1993
Garcia, M.N., and Sharps, J.A., 1985
Garcia, M.N., and Sharps, J.A., 1986
Gibbs, J.F., and Roller, J.C., 1966
Gray, R.C., 1966a
Guth, P.L., 1981
Guth, P.L., 1990
Hamilton, R.M., et al., 1969a
Hamilton, R.M., et al., 1970
Hamilton, W.B., 1988
Hansen, W.R., et al., 1963
Harris, R.N., et al., 1986
Herrin, Eugene, et al., 1979
Hinrichs, E.N., 1968b
Hinrichs, E.N., and Corchary, G.S., 1968
Houser, F.N., 1969b
Houser, F.N., 1969c
Houser, F.N., 1970a
Houser, F.N., 1970b
Houser, F.N., 1970c
Houser, F.N., and Emerick, W.L., 1964
Jenkins, E.C., 1973
Knauss, K.G., 1981a
Knauss, K.G., 1981b
Lipman, P.W., and Christiansen, R.L., 1963
Maldonado, Florian, 1977a
Maldonado, Florian, 1977b
Maldonado, Florian, 1977c
Mao, N.H., 1987
McKague, H.L., 1983
McKague, H.L., et al., 1979
McLaughlin, K.L., et al., 1986
McLaughlin, K.L., et al., 1987
Mellman, G.R., and Hart, R.S., 1982
Miller, C.H., and Miller, D.R., 1977
Miller, C.H., et al., 1975a
Miller, J.J., et al., 1993
Minor, S.A., 1990
Minster, J.B., et al., 1981a
Minster, J.B., et al., 1981b
Moench, R.H., 1965
Monfort, M.E., and Evans, J.R., 1982a
Monfort, M.E., and Evans, J.R., 1982b
Murphy, J.R., et al., 1987
Myers, W.B., 1987
Myers, W.B., 1988
Naumann, T.R., et al., 1991
O'Neill, J.M., et al., 1992
Puchlik, K.P., 1974
Rechard, R.P., and Schuler, K.W., 1982
Reheis, M.C., and Noller, J.S., 1987
Robinson, G.D., 1985
Rogers, A.M., et al., 1982
Rogers, A.M., et al., 1987
Rojstaczer, S.A., 1987
Rosenbaum, J.G., and Hudson, M.R., 1990
Sass, J.H., et al., 1988
Shroba, R.R., 1983
Shroba, R.R., et al., 1988a
Smith, Christian, et al., 1981a

STRUCTURAL GEOLOGY (continued)

Smith, K.D., and Brune, J.N., 1993
Snow, J.K., 1992
Snyder, D.B., and Carr, W.J., 1984
Snyder, R.P., 1970
Snyder, R.P., 1971
Snyder, R.P., 1973a
Snyder, R.P., 1975a
Snyder, R.P., 1976
Snyder, R.P., and Rogers, Susan, 1972
Springer, J.E., et al., 1984
Steele, S.G., and Snyder, R.P., 1972
Steele, S.G., and Snyder, R.P., 1973
Stewart, J.H., 1988
Swadley, W.C., and Hoover, D.L., 1983
Swadley, W.C., et al., 1984
Szabo, B.J., and O'Malley, P.A., 1985
Taylor, S.R., 1981a
Taylor, S.R., 1981b
Taylor, S.R., 1983
Thorpe, R.K., 1984a
Throckmorton, C.K., and Verbeek, E.R., 1995
Tsang, Y.W., and Pruess, K., 1987
Tyler, S.W., et al., 1986
Tyler, S.W., et al., 1992
U.S. Army Engineer Waterways Experiment Station, 1964
U.S. Geological Survey, 1976a
U.S. Geological Survey, 1990
Warren, R.G., et al., 1985
Wernicke, Brian, et al., 1988
Wilmarth, V.R., and McKeown, F.A., 1960
Winograd, I.J., and Thordarson, William, 1968
Yow, J.L., 1984a

TUNNELS

Connolly, J.R., and Keil, Klaus, 1985
Connolly, J.R., et al., 1983b
Connolly, J.R., et al., 1984
Isherwood, D.J., et al., 1981
Johnson, R.L., and Bauer, S.J., 1991
Keller, G.V., 1962
Langkopf, B.S., and Eshom, E., 1982
Lappin, A.R., and Nimick, F.B., 1985
Laraway, W.H., and Houser, F.N., 1962
Lin, Wunan, et al., 1991
Majer, E.L., et al., 1994
McKeown, F.A., and Dickey, D.D., 1961
McKeown, F.A., et al., 1959
Miller, C.H., 1976

Miller, C.H., et al., 1975a
Murray, W.A., 1980
Norris, A.E., et al., 1982
Orkild, P.P., 1983b
Orkild, P.P., et al., 1983
Patrick, W.C., 1986a
Patrick, W.C., 1986b
Ramspott, L.D., et al., 1981
Rousseau, J.P., et al., 1991
Russell, C.E., 1993
Shroba, R.R., et al., 1988b
Smith, Christian, et al., 1981a
Steele, S.G., and Fairer, G.M., 1978
Thorpe, R.K., and Springer, J.E., 1981
Townsend, D.R., and Baldwin, M.J., 1982
Townsend, D.R., et al., 1982
U.S. Geological Survey, 1970b
U.S. Geological Survey, 1978
U.S. Geological Survey, 1979
U.S. Geological Survey, 1982
Wilder, D.G., and Yow, Y.L., Jr., 1981
Wilder, D.G., and Yow, J.L., 1984
Wilder, D.G., and Yow, J.L., Jr., 1985
Wilder, D.G., and Yow, J.L., Jr., 1987
Wilder, D.G., et al., 1982
Wilmarth, V.R., et al., 1962
Zimmerman, R.M., and Vollendorf, W.C., 1982
Zimmerman, R.M., et al., 1981

VADOSE ZONE

Case, C.M., 1977
Daffern, D.D., et al., 1990
Detty, T.E., et al., 1993
Efurd, D.W., 1994
Emer, D.F., and King, K.M., 1988
Hansen, D.S., 1978
Hansen, D.S., et al., 1978
Hanson, J.M., and Hearst, J.R., 1985
Jacobson, R.L., 1982
Kieft, T.L., et al., 1993
Leary, K.D., 1990
Lindstrom, F.T., et al., 1993
Los Alamos National Laboratory, 1991
Mercer, J.W., et al., eds., 1983
Montazer, Parviz, et al., 1988
Nguyen, H.D., 1995
Panian, T.F., 1987
Peters, R.R., and Klavetter, E.A., 1988
Peters, R.R., et al., 1987
Scott, R.B., et al., 1984
Sully, M.J., et al., 1994

VADOSE ZONE (continued)

Wollenberg, H.A., et al., 1983

VOLCANIC ROCKS

Allingham, J.W., 1968
Ander, H.D., 1983
Anderson, E.E., ???
Anderson, G.D., and Kusubov, A.S., 1986a
Anderson, G.D., and Kusubov, A.S., 1986b
Anderson, R.E., and Barnhard, T.P., 1991
Anderson, R.E., and Ekren, E.B., 1968
Baldwin, M.J., and Jahren, C.E., 1982
Bath, G.D., 1967
Bath, G.D., 1968
Bath, G.D., et al., 1982
Benson, L.V., 1976
Bish, D.L., 1991
Bish, D.L., and Semarge, R.E., 1982
Bish, D.L., et al., 1982
Bish, D.L., et al., 1990
Blacic, J.D., 1993
Blankennagel, R.K., 1974
Carr, W.J., 1982a
Carr, W.J., 1984b
Carr, W.J., 1990
Carr, W.J., and Rogers, A.M., 1982
Carr, W.J., et al., 1968
Carr, W.J., et al., 1984a
Carr, W.J., et al., 1984b
Carr, W.J., et al., 1986
Carroll, P.I., et al., 1981
Carroll, R.D., 1968
Carroll, R.D., 1986
Carroll, R.D., 1989
Carroll, R.D., 1990
Carroll, R.D., 1994
Carroll, R.D., and Cunningham, M.J., 1978
Carroll, R.D., and Kibler, J.E., 1983
Carroll, R.D., and Magner, J.E., 1986
Carroll, R.D., and Magner, J.E., 1988
Christiansen, R.L., and Lipman, P.W., 1966
Christiansen, R.L., and Noble, D.C., 1965
Christiansen, R.L., et al., 1965
Christiansen, R.L., et al., 1977
Claassen, H.C., and White, A.F., 1979a
Claassen, H.C., and White, A.F., 1979b
Cleveland, J.M., et al., 1983
Connolly, J.R., and Keil, Klaus, 1985
Connolly, J.R., et al., 1983b
Connolly, J.R., et al., 1984

Crowe, B.M., 1990
Crowe, B.M., and Carr, W.J., 1980
Crowe, B.M., and Sargent, K.A., 1979
Crowe, B.M., et al., 1980
Cummings, David, 1968
Daily, W.D., and Ramirez, A.L., 1986
Daily, W.D., and Ramirez, A.L., 1989
Daily, W.D., et al., 1985
Daily, W.D., et al., 1986
Daily, W.D., et al., 1987
Dale, D.A., and Seaber, P.R., 1993
Danilchuk, Walter, 1969
Dickey, D.D., 1960
Diehl, S.F., and Chornack, M.P., 1990
Diehl, S.F., et al., 1990
Diehl, S.F., et al., 1991
Dixon, G.L., et al., 1976
Douglas, A.C., and Millett, M.R., 1978
Duba, A.G., et al., 1973
Duff, R.E., 1978
Ege, J.R., et al., 1970
Erickson, K.L., and Fortney, D.R., 1981b
Erskine, D.J., et al., 1994
Ferguson, J.F., et al., 1994
Fernald, A.T., 1970
Fernald, A.T., 1979
Flexser, Steve, and Wollenberg, H.A., 1992
Froula, N.H., et al., 1972
Gardiner, D.S., et al., 1978
Goldberg, M.C., et al., 1962
Green, S.J., et al., 1971
Green, S.J., et al., 1973
Hadley, G.R., 1984
Haimson, B.C., et al., 1974b
Heiken, G.H., and Bevier, M.L., 1979
Herring, D.M., et al., 1993
Hess, J.W., et al., 1988
Hinrichs, E.N., and Orkild, P.P., 1961
Hoover, D.L., 1964
Hoover, D.L., 1966
Hoover, D.L., 1968a
Hoover, D.L., and Shepard, A.O., 1965
Houser, F.N., and Poole, F.G., 1960b
Houser, F.N., and Poole, F.G., 1960c
Hudson, M.R., and Rosenbaum, J.G., 1990
Huysken, K.T., 1993
Izett, G.A., 1988
Jackson, M.R., 1988
James, O.B., 1969
Johnson, R.L., and Bauer, S.J., 1991
Johnstone, J.K., and Wolfsberg, Kurt, eds., 1980a
Johnstone, J.K., and Wolfsberg, Kurt, eds., 1980b

VOLCANIC ROCKS (continued)

- Keller, G.V., 1959a
 Keller, G.V., 1960
 Kistler, R.W., 1968
 Knauss, K.G., 1984
 Knauss, K.G., and Beiriger, W.B., 1984
 Knowlton, G.D., and McKague, H.L., 1976a
 Knowlton, G.D., and McKague, H.L., 1976b
 Lachenbruch, A.H., et al., 1987
 Lahoud, R.G., et al., 1984
 Langkopf, B.S., and Eshom, E., 1982
 Lappin, A.R., and Nimick, F.B., 1985
 Leisek, J.F., 1964
 Lin, Wunan, and Daily, W.D., 1984
 Lin, Wunan, and Daily, W.D., 1990
 Lin, Wunan, and Ruddie, David, 1991
 Lipman, P.W., 1964
 Lipman, P.W., 1966a
 Lipman, P.W., et al., 1966
 Luft, S.J., 1964
 Maldonado, Florian, 1981a
 Maldonado, Florian, and Koether, S.L., 1983
 Maldonado, Florian, et al., 1979b
 Manger, G.E., 1965
 Marsh, B.D., and Resmini, R.G., 1992
 Marvin, R.F., et al., 1970
 McKee, E.H., and Bergquist, J.R., 1993
 Metcalf, L.M., 1983
 Miller, C.H., et al., 1975a
 Mills, J.G., Jr., and Rose, T.P., 1991
 Montazer, Parviz, et al., 1988
 Moore, D.E., et al., 1984a
 Moore, D.E., et al., 1984b
 Moore, D.E., et al., 1984c
 Morrow, C., and Byerlee, J., 1984
 Mower, T.E., et al., 1993
 Naumann, T.R., et al., 1991
 Noble, D.C., 1965a
 Noble, D.C., 1968a
 Noble, D.C., et al., 1965
 O'Connor, J.T., 1963
 Olsson, W.A., and Jones, A.K., 1980?
 Olsson, W.A., and Teufel, L.W., 1980
 Olsson, W.A., and Teufel, L.W., 1981
 Page, W.R., 1990
 Parrish, D.K., and Senseny, P.E., 1981
 Pawloski, G.A., 1981a
 Perry, F.V., and Crowe, B.M., 1992
 Price, R.H., 1983
 Price, R.H., and Jones, A.K., 1982
 Price, R.H., et al., 1982a
 Price, R.H., et al., 1982b
 Prindle, R.W., 1990
 Quinlivan, W.D., and Byers, F.M., Jr., 1977
 Quinlivan, W.D., and Lipman, P.W., 1965
 Ratcliff, C.D., et al., 1994
 Raytheon Services Nevada, 1994b
 Rechard, R.P., and Schuler, K.W., 1982
 Riecker, R.E., and Rooney, T.P., 1966
 Roller, J.C., and Black, R.A., 1961
 Rosenbaum, J.G., 1986
 Russell, C.E., 1987
 Russell, C.E., et al., 1987
 Russell, C.E., et al., 1991
 Russell, C.E., et al., 1994
 Russell, C.E., et al., in press
 Sargent, K.A., 1965a
 Sargent, K.A., 1965b
 Sargent, K.A., 1969a
 Sawyer, D.A., and Sargent, K.A., 1989
 Sawyer, D.A., et al., 1990
 Sawyer, D.A., et al., 1994
 Schuraytz, B.C., et al., 1985
 Schuraytz, B.C., et al., 1987
 Scott, R.B., et al., 1983
 Semken, S.C., 1984
 Semken, S.C., and DePaolo, D.J., 1983
 Shepard, A.O., 1961
 Short, N.M., 1969
 Smith, C.W., 1971
 Smith, C.W., and Bass, R.C., 1981
 Snyder, R.P., 1968a
 Snyder, R.P., 1977
 Stephens, D.R., et al., 1969a
 Swolfs, H.S., et al., 1973
 Sykes, M.L., et al., 1980a
 Sykes, M.L., et al., 1980b
 Teufel, L.W., 1982
 Thoma, S.G., et al., 1992
 Thomas, K.W., 1987
 Thomas, R.K., and Lappin, A.R., 1979
 Thompson, J.L., 1991d
 Thordarson, William, 1965
 Thordarson, William, 1966
 Throckmorton, C.K., and Verbeek, E.R., 1995
 Travis, B.J., et al., 1984
 Tsang, Y.W., and Pruess, K., 1987
 Vine, E.N., et al., 1980
 Walter, G.R., 1982
 Walter, G.R., 1985
 Warpinski, N.R., and Teufel, L.W., 1991
 Warren, R.G., 1983a
 Warren, R.G., et al., 1984

VOLCANIC ROCKS (continued)

Warren, R.G., et al., 1988
Warren, R.G., et al., 1989
Weeks, E.P., and Wilson, W.E., 1984
Wells, S.G., et al., 1988
Wells, S.G., et al., 1990
Wells, S.G., et al., 1991
White, A.F., 1979a
White, A.F., et al., 1980
Whitney, J.W., and Shroba, R.R., 1991
Wilmarth, V.R., 1959a
Wilmarth, V.R., et al., 1960a
Wilson, W.E., et al., 1982
Winograd, I.J., 1971a
Winograd, I.J., 1971b
Zimmerman, R.M., 1982
Zimmerman, R.M., et al., 1981
Zimmerman, R.M., et al., 1985

WATER LEVELS

Arteaga, F.E., et al., 1991
Bochicchio, Regina, 1991
Boucher, M.S., 1994a
Boucher, M.S., 1994b
Boughton, C.J., 1986
Carson, R.L., 1980
Clary, S.L., et al., 1995
Doty, G.C., and Thordarson, William, 1983
Ervin, E.M., et al., 1993
Fenske, P.R., and Carnahan, C.L., 1976
Garber, M.S., 1963a
Garber, M.S., 1965
Garber, M.S., and Koopman, F.C., 1968
Garber, M.S., and Wollitz, L.E., 1969
Gonzalez, D.D., et al., 1973
Hale, G.S., and Trudeau, D.A., 1993
Hale, G.S., et al., 1995
Hoover, D.L., and Trudeau, D.A., 1987
La Camera, R.J., and Westenburger, C.L., 1994
Langer, W.H., et al., 1984
Larson, J.D., 1974a
Larson, J.D., 1974b
Larson, J.D., 1975
Lindstrom, F.T., et al., 1992
Lobmeyer, D.H., et al., 1995
Luckey, R.R., et al., 1993
Marshall, B.D., et al., 1993
Nichols, W.D., and Akers, J.P., 1985
O'Brien, G.M., 1991
O'Brien, G.M., 1992

O'Brien, G.M., 1993
O'Brien, G.M., et al., 1995
O'Hagan, M.D., 1993

O'Hagan, M.D., and Lacznia, R.J., 1996
Quade, J.G., et al., 1995
Robison, J.H., 1984a
Robison, J.H., et al., 1988
Thomas, J.M., et al., 1986
U.S. Geological Survey, 1992
U.S. Geological Survey, 1995
Unger, R.W., 1994
Winograd, I.J., 1970
Winograd, I.J., and Szabo, B.J., 1988
Wood, D.B., 1992

WATER QUALITY

Arteaga, F.E., et al., 1991
Beetem, W.A., et al., 1965
Benson, L.V., and McKinley, P.W., 1985
Benson, L.V., et al., 1983
Boughton, C.J., 1986
Carson, R.L., 1980
Chapman, J.B., and Lyles, B.F., 1993
Claassen, H.C., 1973
Clary, S.L., et al., 1995
Clebsch, Alfred, Jr., and Baker, F.B., 1960
Elliott, B., 1982
Larson, J.D., 1974a
Larson, J.D., 1974b
Larson, J.D., 1975
McKinley, P.W., et al., 1991
Meyer, G.L., and Smith, R.E., n.d.
Robinson, B.P., and Beetem, W.A., 1965
Robinson, B.P., and Beetem, W.A., 1975
Schoff, S.L., and Moore, J.E., 1964

WATER USE

Bateman, R.L., et al., 1972
Bedinger, M.S., et al., 1984
Boughton, C.J., 1986
Giles, K.R., 1976
Moore, D.E., et al., 1986

WATER WELLS

Arteaga, F.E., et al., 1991
Boughton, C.J., 1986
Claassen, H.C., 1973
Clary, S.L., et al., 1995

WATER WELLS (continued)

Cullen, J.J., et al., 1991
Czarnecki, J.B., 1992
Harrar, J.E., et al., 1990
Hood, J.W., 1961
Knauss, K.G., and Beiriger, W.B., 1984
Moore, J.E., 1962
Moore, J.E., and Garber, M.S., 1962
Robinson, B.P., and Beetem, W.A., 1965
Russell, C.E., 1991a
Thordarson, William, 1983a
Thordarson, William, et al., 1962
Thordarson, William, et al., 1967
Thordarson, William, et al., 1984
U.S. Geological Survey, 1983a
Winograd, I.J., and West, L.R., 1962

YUCCA FLAT VALLEY

Ander, H.D., 1984
Ander, H.D., and Oldow, J.S., 1983
Anderson, L.M., and McLaughlin, K.L., 1985
Barnes, Harley, et al., 1963b
Brethauer, G.E., et al., 1981
Carr, W.J., et al., 1975b
Carroll, R.D., and Muller, D.C., 1973
Cole, J.C., 1987
Colton, R.B., and McKay, E.J., 1967
Covington, H.R., and Simonds, F.W., 1985
Crow, N.B., 1976
Davies, W.J., et al., 1982
Dickey, D.D., and Hassemer, J.H., 1974
Diment, W.H., et al., 1959a
Diment, W.H., et al., 1960
Dinwiddie, G.A., and Weir, J.E., Jr., 1979
Dixon, G.L., et al., 1973a
Dixon, G.L., et al., 1973c
Dixon, G.L., et al., 1975
Doty, G.C., and Rush, F.E., 1984
Doty, G.C., and Thordarson, William, 1983
Drellack, S.L., and Cavazos, A.P., 1986
Drellack, S.L., and Cavazos, A.P., 1987
Drellack, S.L., and Thompson, P.H., 1990
Drellack, S.L., et al., 1982
Drellack, S.L., et al., 1983
Drellack, S.L., et al., 1984
Drellack, S.L., et al., 1989a
Drellack, S.L., et al., 1989b
Drellack, S.L., et al., in press
Ellis, W.L., and Snyder, R.P., 1974

Elwood, Rebecca, et al., 1985a
Elwood, Rebecca, et al., 1985b
Emer, D.F., and King, K.M., 1988
Emerick, W.L., 1961a
Emerick, W.L., 1983
Felch, R.N., et al., 1979
Ferguson, J.F., 1981
Fernald, A.T., 1970
Fernald, A.T., 1979
Fernald, A.T., 1983a
Fernald, A.T., et al., 1965
Fernald, A.T., et al., 1968a
Fernald, A.T., et al., 1968b
Fernald, A.T., et al., 1975
Fischer, F.G., et al., 1972
Fleischer, R.L., et al., 1974
Foley, M.G., et al., 1991
Garber, M.S., 1963a
Garber, M.S., 1965
Garber, M.S., 1971a
Garber, M.S., and Johnston, R.H., 1967
Garber, M.S., and Thordarson, William, 1962
Garcia, M.N., and Sharps, J.A., 1985
Garcia, M.N., and Sharps, J.A., 1986
Gillson, R.G., 1993
Gillson, R.G., et al., 1992
Gonzales, J.L., et al., 1982
Gonzales, J.L., et al., 1985
Hale, G.S., et al., 1995
Hamilton, R.M., et al., 1970
Hawkins, W.L., et al., 1990
Healey, D.L., 1966
Healey, D.L., 1970b
Healey, D.L., 1970c
Hearst, J.R., and Burkhard, N.R., 1989
Hess, A.E., and Paillet, F.L., 1991
Hinrichs, E.N., 1968b
Hinrichs, E.N., and Corchary, G.S., 1968
Hood, J.W., 1961
Hoover, D.B., et al., 1979
Hoover, D.B., et al., 1982c
Hoover, D.L., and Morrison, J.N., 1980
Houser, F.N., and Poole, F.G., 1959a
Hudson, M.H., 1992
Hudson, M.R., 1988
Hudson, M.R., 1989a
Hudson, M.R., 1992a
Kao, C.S., et al., 1994
Laczniak, R.J., et al., 1996
Lee, S.Y., et al., 1987b
Mao, N.H., 1983
McArthur, R.D., 1976

YUCCA FLAT VALLEY (continued)

- McArthur, R.D., and Kordas, J.F., 1985
McArthur, R.D., and Mead, S.W., 1987
McKague, H.L., et al., 1979
McKeown, F.A., et al., 1976
McLaughlin, K.L., et al., 1986
McLaughlin, K.L., et al., 1987
Mihevc, T.M., 1988
Mihevc, T.M., 1990a
Mihevc, T.M., 1992a
Minor, S.A., 1990
Pawloski, G.A., 1982
Ponce, D.A., and Hanna, W.F., 1982
Powers, P.S., and Healey, D.L., 1985
Price, C.E., and Thordarson, William, 1962
Puchlik, K.P., 1974
Quinlivan, W.D., et al., 1977
Quinlivan, W.D., et al., 1985
Rayburn, C.J., et al., 1989
Robbins, S.L., and Clutsom, F.G., 1983
Robbins, S.L., et al., 1982
Sargent, K.A., et al., 1970
Sargent, K.A., et al., 1972
Schmoker, J.W., and Kososki, B.A., 1978
Schoff, S.L., and Wilmarth, V.R., 1961
Scott, J.H., et al., 1964
Sharps, J.A., 1987
Snoeberger, D.F., et al., 1971
Snyder, R.P., 1975a
Snyder, R.P., 1976
Snyder, R.P., and Rogers, Susan, 1972
Spengler, R.W., and Glanzman, V.M., 1980
Steele, S.G., and Snyder, R.P., 1972
Steele, S.G., and Snyder, R.P., 1973
Swadley, W.C., and Hoover, D.L., 1989
Thompson, J.L., 1991a
Thompson, P.H., and Drellack, S.L., 1988
U.S. Geological Survey, 1976a
Wagoner, J.L., 1981a
Wagoner, J.L., 1987
Wagoner, J.L., 1991a
Wagoner, J.L., and Ramspott, L.D., 1981
Williams, V.S., et al., 1986
Williams, W.P., et al., 1963
Wilmarth, V.R., et al., 1960b
Winograd, I.J., and West, L.R., 1962
Zohdy, A.A.R., and Bisdorf, R.J., 1979

DISTRIBUTION

Bob Bangerter
Environmental Restoration Division
Nevada Operations Office
U.S. Department of Energy
P.O. Box 98518
Las Vegas, NV 89193-8518

Dave Beck
U.S. Geological Survey
Water Resources Division
6770 S. Paradise Rd.
Las Vegas, NV 89119

Ron Baugh
Bechtel Nevada Corporation
P.O. Box 98521
Las Vegas, NV 89193-8521

Joanne M. Bradbery, Director
Contract Management Division
Nevada Operations Office
U.S. Department of Energy
P.O. Box 98518
Las Vegas, NV 89193-8518

Beverly Colbert
Contract Management Division
Nevada Operations Office
U.S. Department of Energy
P.O. Box 98518
Las Vegas, NV 89193-8518

Lee Davisson
Nuclear Chemistry Division
Lawrence Livermore National Laboratory
P.O. Box 808, L-237
Livermore, CA 94550

Brian Dozier
Bechtel Nevada Corporation
P.O. Box 98521
Las Vegas, NV 89193-8521

Doug Duncan (4)
Environmental Protection Division
Nevada Operations Office
U.S. Department of Energy
P.O. Box 98518
Las Vegas, NV 89193-8518

Dennis Farmer
Radiation Sciences Laboratory
Office of Radiation and Indoor Air
U.S. Environmental Protection Agency
P.O. Box 98517, M/S 513
Las Vegas, NV 89193-8517

Larry Franks
Nevada State Health Department
Radiological Health Section
620 Belrose Avenue
Las Vegas, NV 89158

Wayne Glines
Bechtel Nevada Corporation
P.O. Box 98521
Las Vegas, NV 89193-8521

Laura Helfel
State of Nevada
Department of Conservation
and Natural Resources
Division of Environmental Protection
333 W. Nye Lane
Carson City, NV 89710

Kenneth Hoar, Director
Environmental Protection Division
Nevada Operations Office
U.S. Department of Energy
P.O. Box 98518
Las Vegas, NV 89193-8518

Deborah Howard
Environmental Protection Division
Nevada Operations Office
U.S. Department of Energy
P.O. Box 98518
Las Vegas, NV 89193-8518

Kathy Izell
Assistant Manager for Technical Services
Nevada Operations Office
U.S. Department of Energy
P.O. Box 98518
Las Vegas, NV 89193-8518

Roger Jacobson
Desert Research Institute
Water Resources Center
P.O. Box 19040
Las Vegas, NV 89132-0040

Marjory Jones
Desert Research Institute
Water Resources Center
P.O. Box 60220
Reno, NV 89506-0220

Jim Kannard
Bechtel Nevada Corporation
P.O. Box 98521
Las Vegas, NV 89193-8521

Annie Kersting
Lawrence Livermore National Laboratory
Isotope Sciences Division
L-213
P.O. Box 808
Livermore, CA 94550

Randy Laczniaik
U.S. Geological Survey
Water Resources Division
6770 S. Paradise Rd.
Las Vegas, NV 89119

Steve Mellington, Director
Environmental Restoration Division
Nevada Operations Office
U.S. Department of Energy
P.O. Box 98518
Las Vegas, NV 89193-8518

Leslie A. Monroe
Environmental Protection Division
Nevada Operations Office
U.S. Department of Energy
P.O. Box 98518
Las Vegas, NV 89193-8518

Ken Rehfeldt
Geotrans, c/o IT
4330 Valley View
Suite 112, MS-439
Las Vegas, NV 89103

David K. Smith
Isotopes Sciences Division
Lawrence Livermore National Laboratory
P.O. Box 808, M/S L231
Livermore, CA 94550

Nick Stellevato
Nuclear Waste Repository Project Office
P.O. Box 675
Mercury, NV 89023

Bonnie Thompson
Environmental Protection Division
Nevada Operations Office
U.S. Department of Energy
P.O. Box 98518
Las Vegas, NV 89193-8518

Joe Thompson
Los Alamos National Laboratory
INC-11, MS J514
P.O. Box 1663
Los Alamos, NM 87545

Doug Trudeau
U.S. Geological Survey
Water Resources Division
6770 S. Paradise Rd.
Las Vegas, NV 89119

Steve Wiel
Bechtel Nevada Corporation
P.O. Box 98521
Las Vegas, NV 89193-8521

Janet Wiley
International Technology Corporation
4330 S. Valley View
Suite 114
Las Vegas, NV 89103

Library
IT Corporation
4330 S. Valley View
Suite 114
Las Vegas, NV 89103
ATTN: Toni Miller

Annie Kelley
State Documents Department
Nevada State Library
Capitol Complex
Carson City, NV 89710

Library
Southern Nevada Science Center
Desert Research Institute
P.O. Box 19040
Las Vegas, NV 89132-0040

Archives
Getchell Library
University of Nevada, Reno

Public Reading Facility
Bechtel Nevada Corporation
P.O. Box 98521
Las Vegas, NV 89193-8521

Beverly Carter
MacKay School of Mines Library
University of Nevada, Reno

Technical Information Resource Center
Nevada Operations Office
U.S. Department of Energy
P.O. Box 98518
Las Vegas, NV 89193-8518

Document Section, Library
University of Nevada, Las Vegas
4505 Maryland Parkway
Las Vegas, NV 89154

Librarian
Water Resources Center Archives
410 O'Brien Hall
University of California
Berkeley, CA 94720-1718

Library (Stead)
Desert Research Institute
P.O. Box 60220
Reno, Nevada 89506-0220

Office of Scientific and Technical Information
U.S. Department of Energy
P.O. Box 62
Oak Ridge, TN 37831-9939

