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(DE84002533)**

GEOPRESSED GEOTHERMAL BIBLIOGRAPHY

Second Edition: Geopressure Thesaurus

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Geopressured Geothermal Bibliography

Volume II (Geopressure Thesaurus)

Second Edition

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TABLE OF CONTENTS

1.0	Introduction	1
2.0	Subject Scope	3
3.0	Compatibility	3
4.0	Display Format	4
5.0	Thesaurus Structure	4
5.1	Cross-Reference Structure	4
5.2	Term Form	5
5.3	Term Entry	6
6.0	Method of Preparation	7
7.0	Work Plan	8
8.0	References	10
9.0	Citations	11
10.0	INDEX	175

Introduction

1.0 Introduction

This thesaurus of terminology associated with the geopressured geothermal energy field has been developed as a part of the Geopressured Geothermal Information System data base. It is a compilation of terms displaying synonymous, hierarchical, and other relationships between terms. These terms, which are called descriptors, constitute the special language of the information retrieval system -- the system vocabulary.

The function of this thesaurus is to provide a standardized vocabulary for the information storage and retrieval system to facilitate both the indexing and subject-searching processes. In indexing, a thesaurus is used to translate the natural language of the document to be indexed into the standardized system vocabulary and to place the document at the appropriate level of generality or specificity in relation to the other documents in the data base. In subject retrieval, the thesaurus is used to match the natural language used in search requests with the system vocabulary and to find the most appropriate term to represent a concept. The role of the thesaurus in an information-retrieval system is illustrated in Figure 1.

The Geopressure Thesaurus is such an information retrieval thesaurus. Its role in the Geopressured Geothermal Information System is to provide a controlled vocabulary of sufficient specificity for subject indexing and retrieval of documents in the geopressured geothermal energy field.

Several other thesauri overlap in coverage with the Geopressure Thesaurus. The thesauri most closely related to the Geopressure Thesaurus in coverage are the DOE Energy Information Data Base Subject Thesaurus (8) and the Geothermal Thesaurus being developed at the Lawrence Berkeley Laboratory(LBL) (7). The Geopressure Thesaurus differs from these thesauri in two respects: 1) specificity of the vocabulary or subject scope and 2) display format.

Geopressured Geothermal Bibliography

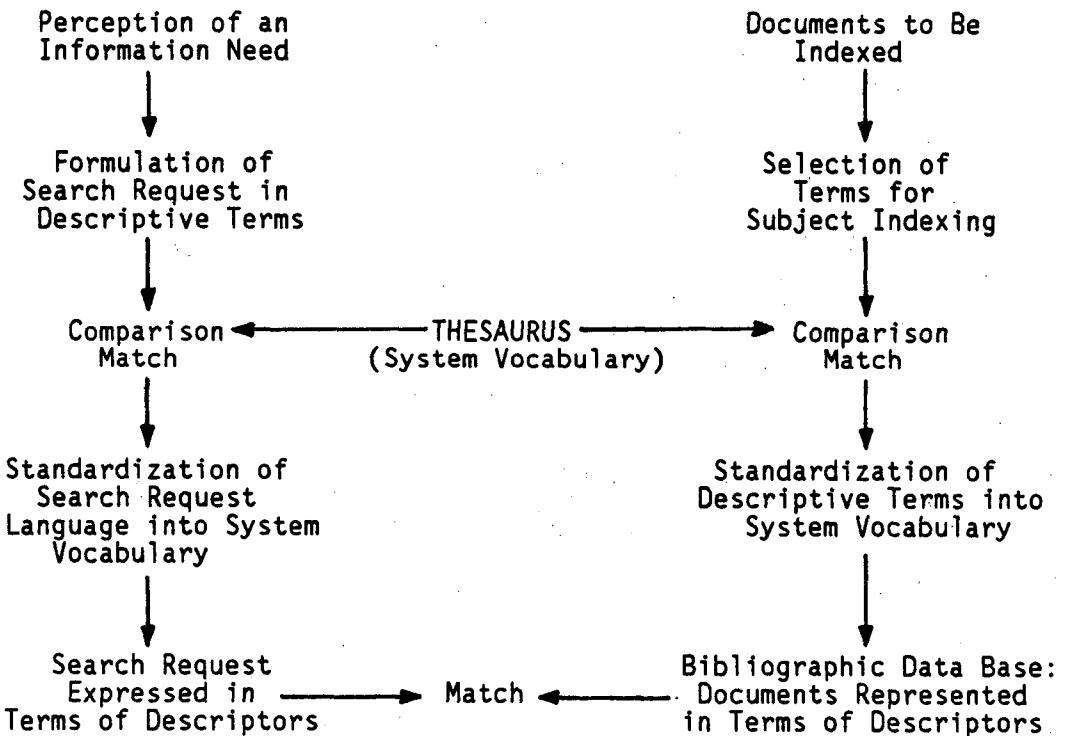


FIGURE 1 Role of a Thesaurus in an Information-Retrieval System

2.0 Subject Scope

The subject scope of the Geopressure Thesaurus includes such topics as:

1. Geopressure resource assessment: geographical distribution, estimated reserves.
2. Geology, hydrology, and geochemistry of geopressured systems.
3. Geopressure exploration and exploration technology: geophysical, geological, geochemical and hydrological methods of detecting and evaluating geopressured resources.
4. Geopressured reservoir engineering and drilling technology: drilling, development, and production of wells, corrosion, well tests, and measurements.
5. Economic aspects: financial incentives, cost estimates, taxation, and economic feasibility of developing geopressured resources for commercial and/or residential utilization.
6. Environmental aspects: effects of geopressure development on air, water, and land environments, subsidence, noise, land use, pollution.
7. Legal, institutional, and sociological aspects: effects of federal, state, and local laws and regulations in geopressure development, land use, societal considerations.
8. Electrical and nonelectrical utilization.
9. Other energy sources, especially methane and other fossil fuel reserves, associated with geopressured reservoirs.

DOE's Energy Information Data Base contains information on all aspects of energy sources, while the LBL Geothermal Thesaurus is limited to the geothermal energy field (6). The Geopressure Thesaurus is being developed to provide a highly specialized indexing vocabulary for geopressure information. Some topics included in the subject scope, such as economic and environmental aspects, are common to all fields, so that the vocabulary structure for environmental and economic terms is nearly identical in all three thesauri. Other topics, such as geographic distribution of abnormal formation pressure and geology of geopressured resources, require descriptors not found in either the DOE or LBL geothermal vocabulary.

3.0 Compatibility

The overlap in coverage between the GGIS Bibliographic Data Base and LBL's GEODOC and DOE's RECON data base increases the possibility of exchange of materials between data bases. To ensure compatibility with these data bases, vocabulary links between the thesauri have been incorporated into the Geopressure Thesaurus in the form of USE references. These references guide the user from the form of term used in other thesauri to the term expressing the same concept in the Geopressure Thesaurus.

Geopressured Geothermal Bibliography

The same style of coordinate indexing used in the LBL Geothermal Thesaurus and DOE's Subject Thesaurus has been adopted so that compatibility in hierarchical structure may also be maintained.

4.0 Display Format

The Geopressure Thesaurus differs from most conventional thesauri in that it will be available in an on-line display for interactive searching at a computer terminal. This capability represents a departure from the static, noninteractive searching required in the use of the typical thesaurus which is available in hard-copy only.

An on-line display has several advantages:

1. Availability of the Thesaurus

The user doesn't need a copy of the thesaurus while searching because he always has access to the most current version of the thesaurus via his computer terminal.

2. Facility of Use

In an on-line display the computer looks up the term for the user, thus reducing the amount of time spent by the user finding thesaurus terms and devising search strategies for computer-based retrieval.

Looking at a display for a particular descriptor, the user may decide that he wants to expand it. He can then call up the display for narrower descriptors. The process can be repeated until the proper descriptor is found.

3. Flexibility of Thesaurus Maintenance

A thesaurus is a dynamic structure which must be continuously revised and updated based on experience in its use so as to reflect the most recent developments in the subject field. Since the input data for the Geopressure Thesaurus is stored in machine-readable form on magnetic media, updating and revision can be continuous. Additions and deletions of terms can be made within the body of the thesaurus rather than in periodic supplements.

5.0 Thesaurus Structure

The guidelines for "Thesaurus Structure, Construction, and Use" (2) issued by the Z39 committee of the American National Standards Institute (ANSI) have been adopted as the standards for the Geopressure Thesaurus.

5.1 Cross-Reference Structure

The relationships used in the GGIS Thesaurus are the following:

Cross-References

Symbols

Use	USE
Broader (more general) term	BT
Narrower (more specific) term	NT
Related term	RT
See	SEE

USE references lead the thesaurus user from a term that is not an authorized term in the system to one that is authorized. They prevent information from being dispersed in the data base under different descriptors representing identical concepts. USE references often refer to a preferred synonym, for example, GEOPRESSURED REGIONS USE GEOPRESSURED ZONES. They also may refer to or from an abbreviation, for example, UNITED STATES OF AMERICA USE USA. The reciprocal of the USE reference, the USED FOR reference, which would ordinarily accompany the term to which the USE reference refers, does not appear in the displays for descriptors in the Geopressure Thesaurus.

The BROADER TERM (BT) and NARROWER TERM (NT) relationships show class membership or geographic inclusion. A BT reference leads the user to a more general term and a NT reference leads to a more specific term; for each BROADER TERM reference there is a corresponding NARROWER TERM reference, for example,

INJECTION WELLS	WELLS
BT1 WELLS	NT1 INJECTION WELLS

The number following the relationship symbol indicates the level in the hierarchy.

TEXAS	USA
BT1 USA	BT1 NORTH AMERICA
BT2 NORTH AMERICA	NT1 TEXAS
NT1 CAMERON COUNTY	
NT1 NUECES COUNTY	

The RELATED TERM reference is used as a guide from a given term to other terms that are closely related in ways other than the BT-NT relationship and that the user might want to be reminded of in his search for the most appropriate authorized descriptor. It may also serve to suggest other fruitful search strategies to the searcher.

PERMEABILITY	POROSITY
RT POROSITY	RT PERMEABILITY

SEE references are discussed in the Term Entry section.

5.2 Term Form

Terms chosen for inclusion in the thesaurus are regularized in form in accordance with the ANSI standards for thesauri. Terms may consist of one to several words but should represent a single concept. In general, noun forms such as single nouns, noun phrases, or gerunds are preferred to

Geopressured Geothermal Bibliography

adjectival or verb forms. For example, OFFSHORE LICENSING is used rather than LICENSE; INJECTION rather than INJECT. Noun phrases are written to exclude prepositions, for example HEAT EFFECTS rather than EFFECTS OF HEAT. The singular form is used for processes, properties, and unique things; the plural form is used for classes of things.

Examples are:

1. Processes:
Cooling
Inspection
Metamorphism
Sedimentation
2. Properties:
Density
High Pressure
Salinity
Viscosity
3. Unique Things:
Earth Planet
Oxygen
4. Classes of Things:
Gases
Petroleum Deposits
Salts

5.3 Term Entry

Terms consisting of two or more words are entered in their natural word order, for example, BOTTOM HOLE PRESSURE rather than PRESSURE, BOTTOM HOLE. In most thesauri the inverted forms are included as cross-references, for example, PRESSURE (BOTTOM HOLE) USE BOTTOM HOLE PRESSURE. However, inverted entries pose a problem in a thesaurus with an on-line display since the computer only searches for the form of the term entered by the user and inverted terms may be entered in several different ways. This problem is especially evident for terms like PRESSURE and TEMPERATURE which are considered too broad for indexing and searching in a thesaurus of geopressure terms yet have many narrower terms, e.g., BOTTOM HOLE PRESSURE, FLUID PRESSURE, HIGH PRESSURE, which require inverted entry cross-references. In the Geopressure Thesaurus this problem has been handled by grouping the narrower terms under the broader term with a SEE reference indicating that one or more of the narrower terms should be substituted for the broader term, for example:

PRESSURE
SEE BOTTOM HOLE PRESSURE
FLUID PRESSURE
VAPOR PRESSURE

SEE references also serve another related purpose. Because the thesaurus is computer generated, each word in a compound term, such as THERMAL EFFLUENTS, is indexed, along with the compound term. To indicate that these

Introduction

individual words are not legitimate descriptors, SEE references are used to direct the user to the appropriate compound term(s). For example, THERMAL EFFLUENTS appears as two separate words:

EFFLUENTS	THERMAL
SEE THERMAL EFFLUENTS	SEE GEOTHERMAL FLUIDS
SEE WASTE HEAT	SEE THERMAL EFFLUENTS

as well as in its correct phrase form:

THERMAL EFFLUENTS
RT GEOTHERMAL FLUIDS
RT WASTE HEAT

The SEE references will also indicate related terms listed under the correct compound term, hence the appearance of WASTE HEAT under EFFLUENTS and GEOTHERMAL FLUIDS under THERMAL. Both are related terms of THERMAL EFFLUENTS.

In the case of compound terms which are not themselves legitimate terms, both SEE and USE references are provided, for example, ACID TREATMENT:

ACID
SEE ACIDIZATION
ACID TREATMENT
USE ACIDIZATION
TREATMENT
SEE ACIDIZATION

6.0 Method of Preparation

A combination of approaches has been used in the construction of the geopressured geothermal vocabulary. First, a small test thesaurus was prepared by converting part of the list of descriptors used by other data bases to index geopressure information into a hierarchical structure. The Lawrence Berkeley Laboratory Geothermal Thesaurus served as the prototype for the hierarchical structure. Second, in order to ensure that the vocabulary reflects current usage in the field, candidate terms were collected from titles, abstracts, and indexing of a representative sample of documents, including documents stored in GEOBIB, numerous review articles, textbooks, and glossaries. Finally, terms were extracted from other more general vocabularies such as "The LBL Geothermal Thesaurus," "DOE Energy Information Data Base Subject Thesaurus," the Engineers Joint Council "Thesaurus of Engineering Terms" (5), the "Thesaurus of Water Resource Terms" prepared by the Bureau of Reclamation of the U.S. Department of the Interior (9), the American Petroleum Institute "API Thesaurus" (3), the American Geological Institute "GeoRef Thesaurus and Guide to Indexing" (1), the Engineering Index "SHE: Subject Headings for Engineering" (4), and the "Exploration and Production Thesaurus" prepared by the University of Tulsa (10).

Geopressured Geothermal Bibliography

7.0 Work Plan

The flow chart in Figure 2 illustrates the general flow of work in thesaurus construction. This procedure has been followed in the construction of the Geopressure Thesaurus with the exception that a small test thesaurus was prepared using terms from a single primary source. This minithesaurus was then refined and expanded with terms derived from other sources.

As with all thesauri, there are terms which have been inadvertently omitted and terms included whose usefulness is doubtful. In order to detect omissions, ambiguities, redundancies, errors, and needed additional cross-references, three types of tests will be performed:

- Consultation with subject experts
- Interactive retrieval experiments, including analysis of user search requests
- Indexing experiments

Since a thesaurus is a dynamic structure in need of continuous revision, the list of terms will be reviewed periodically and the classificatory structure refined to ensure effective retrieval. Unused terms will be evaluated for possible elimination and new terms will be added when they are needed for indexing. A new thesaurus will be published annually to alert users to these changes.

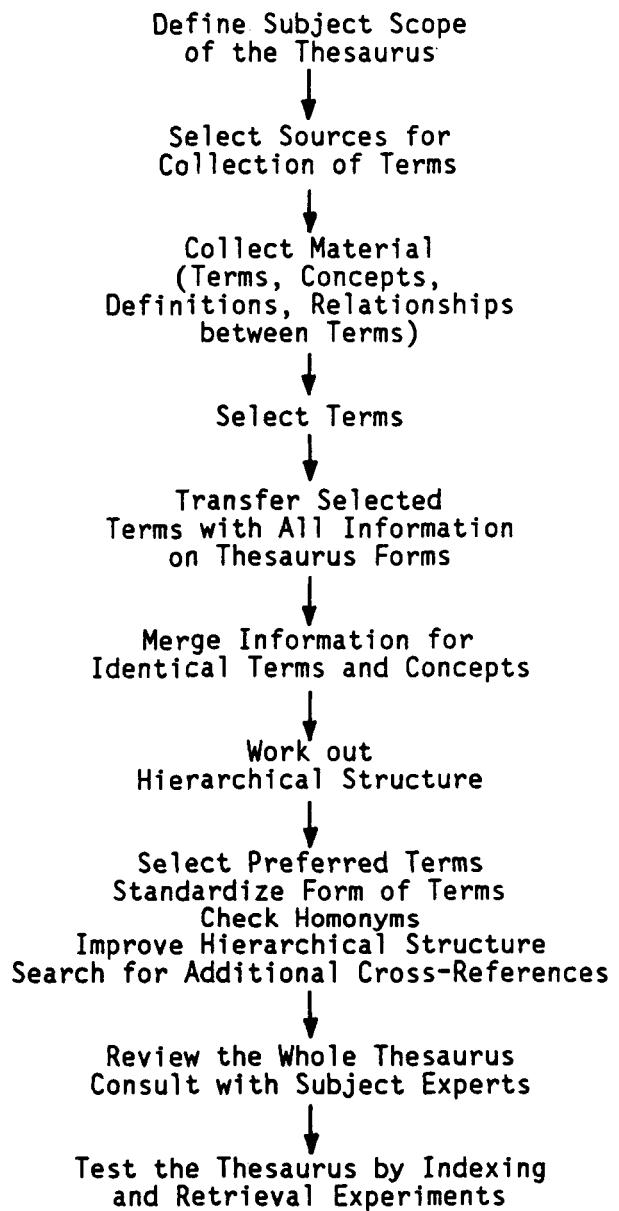


FIGURE 2 Flow of Work in Thesaurus Construction

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9.0 Citations

Abandoned wells
BT1 Wells
RT Natural gas wells
RT Oil wells
See Abandonment
See Well abandonment

Abatement
NT1 Air pollution abatement
NT1 Land pollution abatement
NT1 Noise pollution
abatement
NT1 Water pollution
abatement
RT Control
RT Environmental effects
Also see Air pollution
Also see Air pollution
control
Also see Land pollution
Also see Land pollution
control
Also see Noise pollution
Also see Noise pollution
control
Also see Pollution control
equipment
Also see Water pollution
Also see Water pollution
control

Abnormal formation pressure
Use Geopressure

Abnormal pressure
Use Geopressure
Use Subnormal formation
pressure

Abrasion
RT Corrosion
RT Erosion

Absorption
See Absorption spectroscopy
See Chemisorption

Absorption (chemical)
Use Chemisorption

Absorption spectroscopy
BT1 Measuring methods

Abstract

See Leading abstract

Abstracts
BT1 Document types
NT1 Leading abstract

Abundance
RT Availability
RT Chemical composition
RT Distribution

Acadia Parish
BT1 Louisiana
BT2 Gulf Coast

Accidents
NT1 Blowouts
RT Environment
RT Errors
RT Failures
RT Flammability
RT Hazards
RT Insurance
RT Liabilities
RT Safety
RT Site selection

Accumulation
RT Accumulation rate
RT Deposition

Accumulation rate
BT1 Rates
RT Accumulation
RT Deposition
RT Sedimentation

Accuracy
RT Calibration
RT Sensitivity

Acid
See Acidization

Acid treatment
Use Acidization

Acidification
Use Ph adjustment

Acidity

Geopressured Geothermal Bibliography

Use Ph value	BT2 Geologic structures
Acidization RT Permeability RT Permeability restoration RT Ph adjustment RT Scrubbing RT Well stimulation	Activity See Volcanism
Acidizing See Acidization	Adjustment See Ph adjustment
Acoustic See Acoustic monitoring See Sonic logging See Sound velocity See Sound waves	Administration Also see US ERDA Use Management
Acoustic logging Use Sonic logging	Adsorption RT Chemisorption RT Deposition RT Separation processes RT Surface properties
Acoustic monitoring BT1 Monitoring RT Sonic logging	Adularia BT1 Feldspars BT2 Silicate minerals
Acoustic velocity Use Sound velocity	Aerial See Aerial surveys
Acoustic waves Use Sound waves	Aerial prospecting Use Aerial surveys
Acquisition See Data acquisition systems See Detection	Aerial surveys BT1 Exploration methods RT Remote sensing
Actinides BT1 Metals BT2 Elements NT1 Plutonium NT1 Thorium NT1 Uranium	Africa BT1 Continents NT1 Nigeria
Activation See Environmental effects See Fault systems See Faults See Waste disposal	Age See Geochronology
Active See Active faults	Age estimation Use Geochronology
Active faults BT1 Faults	Agency See US EPA
	Ages See Geologic times
	Agreements RT Contracts RT Recommendations

RT Regulations	RT Air
Agriculture	Air conditioning
RT Crops	RT Air
RT Cultivation techniques	RT Cooling
RT Direct energy utilization	RT Cooling systems
RT Domestic animals	RT Direct energy utilization
RT Ecosystems	RT Thermal insulation
RT Irrigation	
RT Plants	
RT Soil warming	
RT Soils	
Air	Air ejectors
BT1 Gases	Use Gas ejectors
BT2 Fluids	
RT Air analysis	
RT Air cleaning	
RT Air conditioning	
RT Air quality	Air monitoring
RT Earth atmosphere	BT1 Monitoring
RT Gas ejectors	RT Air analysis
RT Troposphere	RT Air pollution
RT Wind	RT Air pollution monitors
Also see Air analysis	RT Water monitoring
Also see Air analysis	
Also see Air monitoring	
Also see Air pollution	Air pollution
Also see Air pollution	BT1 Pollution
abatement	RT Air analysis
Also see Air pollution	RT Air monitoring
control	RT Air pollution abatement
Also see Air pollution	RT Air pollution control
monitors	RT Air pollution monitors
Also see Cooling	RT Air quality
Also see Cooling systems	RT Earth atmosphere
Also see Direct energy	RT Environmental effects
utilization	RT Gaseous wastes
Also see Gas ejectors	RT Hydrogen sulfides
Also see Gaseous wastes	RT Odor
Also see Pollution control	RT Scrubbers
equipment	
Also see Scrubbers	
Also see Thermal insulation	Air pollution abatement
Also see Water analysis	BT1 Abatement
Air analysis	RT Air pollution
BT1 Analysis	RT Air pollution control
BT1 Gas analysis	RT Desulfurization
BT2 Chemical analysis	RT Pollution control
methods	equipment
RT Air	RT Scrubbers
RT Air monitoring	
RT Air pollution	Air pollution control
RT Air pollution monitors	BT1 Pollution control
RT Water analysis	BT2 Control
Air cleaning	RT Air pollution
	RT Air pollution abatement
	RT Air pollution monitors
Air conditioning	Air pollution monitors
	RT Air analysis
	RT Air monitoring
	RT Air pollution
	RT Air pollution control
Air ejectors	Air quality
	RT Air

Geopressured Geothermal Bibliography

RT Air pollution	Use Ph value
Alabama BT1 USA BT2 North America RT Chattahoochee River RT Chattahoochee Formation RT Gulf Coast RT Smackover Formation RT Tennessee River RT Vicksburg Formation	Alkanes BT1 Hydrocarbons BT2 Organic compounds NT1 Ethane NT1 Hexane NT1 Methane NT1 Pentane NT1 Propane NT1 2-methylpropane
Alaska BT1 USA BT2 North America	Allocations RT Budgets RT Distribution RT Economic policy RT Energy policy RT Management RT Planning
Albite BT1 Plagioclases BT2 Feldspars	Alloys NT1 Corrosion resistant alloys NT1 Steels Also see Corrosion Also see Pitting corrosion
Algorithms RT Computer codes RT Mathematics	Alluvial See Alluvial deposits See Alluvium
Alkali See Alkali metals	Alluvial deposits BT1 Sediment deposits BT2 Sediments RT Alluvium
Alkali metals BT1 Metals BT2 Elements NT1 Cesium NT1 Francium NT1 Lithium NT1 Potassium NT1 Rubidium NT1 Sodium	Alluvium BT1 Geologic deposits RT Alluvial deposits RT Deltas RT Sediment deposits RT Sediments
Alkaline See Alkaline earth metals	Alteration See Burial See Hydrothermal alteration
Alkaline earth metals BT1 Metals BT2 Elements NT1 Barium NT1 Beryllium NT1 Calcium NT1 Magnesium NT1 Radium NT1 Strontium	Altitude
Alkalinity	Aluminum BT1 Metals BT2 Elements Also see Aluminum inorganic compounds

Aluminum inorganic compounds

Alunite

BT1 Sulfate minerals
BT2 Minerals

America

See Central America
See North America
See South America
See USA

Ammonia

BT1 Hydrogen inorganic compounds
BT1 Nitrogen inorganic compounds
RT Dissolved gases

Amorphous

See Crystallization

Amorphous state

RT Crystallization

Amounts

See Trace amounts

Amphiboles

BT1 Silicate minerals
BT2 Minerals

Amphibolite

BT1 Metamorphic rocks
BT2 Rocks

Anadarko Basin

BT1 Geologic provinces
RT Oklahoma

RT Texas

Analysis

NT1 Air analysis
NT1 Chemical analysis
NT1 Data analysis
NT1 Gas analysis
NT1 Water analysis
Also see Air
Also see Air analysis
Also see Air monitoring
Also see Air pollution
Also see Air pollution monitors
Also see Chemical analysis methods
Also see Chemical composition
Also see Chemistry
Also see Comparative evaluations
Also see Cost
Also see Data
Also see Dissolved gases
Also see Ecology
Also see Economics
Also see Environment
Also see Failures
Also see Fairway analysis
Also see Gas analysis
Also see Gas chromatography
Also see Gases
Also see Human populations
Also see Mathematical methods
Also see Measuring methods
Also see Numerical analysis
Also see Qualitative chemical analysis
Also see Quantitative chemical analysis
Also see Simulation
Also see Sociology
Also see Systems analysis
Also see Trend analysis
Also see Trend maps
Also see Water monitoring
Also see Water pollution

Andesine

BT1 Plagioclases
BT2 Feldspars

Andesite

BT1 Extrusive rocks
BT2 Igneous rocks

Andesites

Geopressured Geothermal Bibliography

Use Andesite	RT Anticlines
Anhydrite BT1 Sulfate minerals BT2 Minerals RT Calcium sulfates RT Gypsum	Antifoulants RT Corrosion RT Deposits RT Fouling
Animal See Animal shelters See Farm buildings	Antimony BT1 Metals BT2 Elements
Animal shelters BT1 Buildings RT Farm buildings	Apartment buildings BT1 Residential buildings BT2 Buildings
Animals NT1 Aquatic organisms NT1 Domestic animals NT1 Invertebrates NT1 Wild animals RT Biology Also see Agriculture	Aphanite Use Aphanitic rocks
Anions BT1 Ions RT Electrolysis	Aphanitic See Aphanitic rocks
Anisotropy RT Distribution RT Isotropy	Aphanitic rocks BT1 Igneous rocks BT2 Rocks
Anorthosite BT1 Intrusive rocks BT2 Igneous rocks	Appalachia BT1 USA BT2 North America
Anthropogenic See Anthropogenic occurrence See Industry See Natural occurrence	Applications Also see Direct energy utilization Use Uses
Anthropogenic occurrence RT By-products RT Industry RT Natural occurrence	Aquaculture RT Fishes RT Waste heat
Anticlines BT1 Folds BT2 Geologic structures NT1 Diapirs NT1 Geanticlines RT Anticlinoria RT Petroleum deposits RT Salt deposits	Aquatic See Aquatic ecosystems See Aquatic organisms See Environment See Fishes
Anticlinoria BT1 Fold systems BT2 Geologic structures	Aquatic ecosystems BT1 Ecosystems RT Aquatic organisms RT Environment RT Fishes RT Hydrosphere RT Limnology

Use Aquatic ecosystems

Aquatic organisms

BT1 Animals
BT1 Plants
BT2 Biomass
NT1 Fishes
NT1 Plankton
RT Aquatic ecosystems

Aqueous

See Aqueous solutions

Aqueous solutions

BT1 Solutions
RT Hydrolysis
RT Nonaqueous solutions
RT Ph value

Aquiclude

RT Aquifers
RT Saline aquifers

Aquiculture

Use Aquaculture

Aquifer

See Aquifer tests
See Aquifers
See Observation wells

Aquifer rehabilitation

RT Aquifers
RT Pollution

Aquifer tests

RT Observation wells

RT Test facilities

Aquifers

BT1 Subsurface reservoirs
NT1 Artesian aquifers
NT1 Saline aquifers
RT Aquiclude
RT Aquifer rehabilitation
RT Aquitards
RT Artesian basins
RT Cap rock
RT Geopressured reservoirs
RT Geothermal reservoirs
RT Ground water
RT Ground water recharge
RT Hydrogeology
RT Permeability restoration
RT Transmissivity
RT Water influx
RT Water springs
RT Water table
Also see Artesian water
Also see Brines
Also see Subsurface waters
Also see Waste disposal

Aquitards

RT Aquifers

Arabian Gulf

Use Arabian Sea

Arabian Sea

BT1 Indian Ocean
BT2 Seas
NT1 Persian Gulf

Arbitration

RT Hearings
RT Lawsuits

Arcs

See Island arcs

Arctic

See Arctic regions
See Climates

Arctic regions

BT1 Polar regions
RT Climates

Areal geology

BT1 Geology

Geopressured Geothermal Bibliography

RT Geography

Areas

See Geopressured zones
See Geothermal fields
See KGRAs
See Rural populations
See Urban areas
See Urban populations
See Zoning

Argillaceous rocks

RT Clay
RT Clay minerals
RT Sedimentary rocks
RT Sediments
RT Shale
See Argillaceous deposits
See Argillaceous sediment

Argon

BT1 Rare gases
BT2 Nonmetals

Arizona

BT1 USA
BT2 North America

Arkansas

BT1 USA
BT2 North America
RT Morrow formation

Arsenic

BT1 Semimetals
BT2 Elements

Artesian

See Artesian aquifers
See Artesian basins
See Artesian pressure
See Artesian water
See Free water
See Ground water
See Subsurface waters
See Water springs

Artesian aquifers

BT1 Aquifers
BT2 Subsurface reservoirs
RT Artesian basins
RT Artesian water
RT Subsurface waters

Artesian basins

RT Aquifers
RT Artesian aquifers
RT Artesian wells

RT Ground water

Artesian pressure

BT1 Hydropressure

Artesian water

BT1 Subsurface waters
RT Artesian aquifers
RT Artesian wells
RT Basins
RT Free water
RT Ground water

Artesian wells

RT Artesian basins
RT Artesian water
RT Water springs

Artificial

See Artificial recharge
See Overdraft

Artificial recharge

BT1 Ground water recharge
RT Injection wells
RT Overdraft

Asia

BT1 Continents
NT1 China
NT1 India
NT1 Indonesia
NT1 Israel
NT1 Japan
NT1 Pakistan
NT1 Philippines
NT1 Turkey
RT Urals
RT USSR

Aspects

See Global aspects
See Government policies
See Inspection
See Land leasing
See Laws
See Leasing
See Legal aspects
See Management
See Mineral rights
See Ownership
See Patents
See Recommendations

Assessment

See Feasibility studies
See Industry

See Resource assessment

Assignments
Use Allocations

Associated gases
Use Dissolved gases

Astatine
BT1 Halogens
BT2 Nonmetals

Atlantic
See Atlantic Ocean

Atlantic Ocean
BT1 Seas
BT2 Surface waters
NT1 Caribbean Sea
NT1 North Sea

Atmosphere
See Air
See Air pollution
See Atmospheric precipitations
See Earth atmosphere
See Environment
See Meteorology

Atmosphere (Earth)
Use Earth atmosphere

Atmospheric
See Air pollution
See Atmospheric precipitations

Atmospheric pollution
Use Air pollution

Atmospheric precipitations
BT1 Meteorology
NT1 Frost
NT1 Rain
NT1 Snow
RT Climates
RT Earth atmosphere
RT Floods
RT Hydrosphere
RT Meteoric water
RT Seasons
RT Storms
RT Surface waters
RT Water

RT Weather

Atomic
See US AEC

Attitudes
See Public opinion

Austin Bayou Prospect
BT1 Brazoria Fairway
BT2 Frio Formation
BT1 Brazoria County
BT2 Texas
BT3 USA
NT1 Chocolate Bayou
Geothermal Field

Australasia
NT1 Australia
NT1 New Zealand
NT1 New Guinea

Australia
BT1 Australasia
BT1 Continents
RT New Guinea

Automatic data processing
Use Data processing

Availability
RT Abundance
RT Economics
RT Energy reserves
RT Energy sources
RT Geologic deposits
RT Geopressure resources
RT Geothermal resources
RT Resource depletion

AEC
See US AEC

Back pressure
RT Bottom hole pressure
RT Well testing

Bacteria
BT1 Microorganisms
RT Plankton

Balance
See Energy balance

Balance (energy)

Geopressured Geothermal Bibliography

Use Energy balance

Bar

See Elevated pressure
See High pressure
See Low pressure
See Moderate pressure
See Standard pressure

Barite

BT1 Sulfate minerals
BT2 Minerals
RT Barium sulfates

Barium

BT1 Alkaline earth metals
BT2 Metals
Also see Barium inorganic compounds

Barium inorganic compounds

NT1 Barium sulfates

Barium sulfates

BT1 Barium inorganic compounds
BT1 Sulfates
BT2 Sulfur inorganic compounds
BT2 Oxygen inorganic compounds
RT Barite

Barrel

See Coring equipment

Barrier

See Stratigraphic traps

Barriers

See Permeability barriers

Basalt

BT1 Extrusive rocks
BT2 Igneous rocks

Baseline Ecology

BT1 Ecology

Basicity

Use Ph value

Basin

See Anadarko basin
See Carpathian basin
See Caspian sea
See Delaware basin
See Gulf Coast
See Oklahoma
See Texas
See Uinta basin
See Utah
See USSR

Basins

BT1 Geologic structures
NT1 Ocean basins
NT1 Sedimentary basins
RT Artesian water
RT Water reservoirs
Also see Artesian basins
Also see Ground water

Batholiths

BT1 Igneous intrusions
RT Discordant intrusions
RT Stock intrusions

Bays

RT Seas

Bearings

Bed

See Earth crust
See Formation thickness
See Marine geology
See Sea bed
See Seas
See Sediments

Bed thickness

Use Formation thickness

Benefit

See Comparative evaluations
See Cost
See Economics

Benioff zones

RT Plate tectonics
RT Submarine trenches

Beryllium

BT1 Alkaline earth metals
BT2 Metals

Bibliographies

BT1 Document types	RT Populations
Binary See Binary cycle power generation See Binary cycles See Gas turbine power generation See Geothermal energy conversion See Thermodynamic cycles	Biostratigraphy BT1 Stratigraphy RT Foraminifera RT Paleoecology RT Paleontology RT Zonation
Binary cycle power generation BT1 Power generation RT Binary cycles RT Gas turbine power generation	Biotite BT1 Micas BT2 Silicate minerals
Binary cycles RT Binary cycle power generation RT Thermodynamic cycles	Biotope Use Depositional environment
Binary fluid systems RT Gas turbine power generation RT Geothermal energy conversion RT Thermodynamic cycles	Bismuth BT1 Metals BT2 Elements
Biological See Biological effects See Biology See Environmental effects	Bits See Drill bits See Drill pipes See Drills See Well drilling
Biological effects BT1 Effects RT Biology RT Environmental effects RT Toxicity	Blocks Also see Fault blocks Use Geologic structures
Biology NT1 Ecology RT Animals RT Biological effects RT Biosphere RT Ecosystems RT Fishes RT Microorganisms RT Plants	Blowout See Blowout preventers See Blowouts See Natural gas wells See Oil wells
Biomass NT1 Plants	Blowout preventers RT Blowouts RT Drilling equipment RT Natural gas wells RT Oil wells
Biosphere RT Biology RT Ecosystems RT Environment	Blowouts BT1 Accidents RT Blowout preventers RT Kicks RT Oil wells RT Pressure release RT Safety RT Well drilling RT Wells
	Boilers RT Boiling

Geopressured Geothermal Bibliography

RT Thermal power plants	Use Downhole pumps
Boiling BT1 Phase transformations RT Boilers RT Evaporation RT Heat transfer RT Heating RT Steam generators RT Two phase flow	Bottom hole temperature BT1 Well characteristics RT Formation testing RT Reservoir temperature RT Temperature logging RT Well testing RT Well data RT Wells
Bop Use Blowout preventers	Bound water Use Hygroscopic water
Borehole See Hole diameter	Brackish See Brackish water See Brines See Salinity See Salt water See Subsurface waters
Borehole diameter Use Hole diameter	Brackish water BT1 Water RT Brines RT Salinity RT Salt water RT Subsurface waters
Boreholes RT Jets RT Rock drilling RT Subterrene penetrators RT Well drilling RT Well logging RT Wells	Brayton cycle BT1 Thermodynamic cycles RT Brayton cycle power generation RT Brayton cycle power systems RT Gas turbine power generation
Boring Use Well drilling	Brayton cycle power generation RT Brayton cycle
Borneo BT1 Islands	Brayton cycle power systems RT Brayton cycle RT Power generation
Boron BT1 Semimetals BT2 Elements Also see Boron inorganic compounds	Brazoria County BT1 Texas BT2 Gulf Coast NT1 Austin Bayou Prospect
Boron inorganic compounds	Brewster County BT1 Texas BT2 Gulf Coast
Bottom hole pressure BT1 Well characteristics RT Back pressure RT Formation testing RT Pressure measurement RT Reservoir pressure RT Well data RT Wells	Brine See Brines See Liquid wastes See Ph adjustment
Bottom hole pumps	

See Waste disposal

Brine disposal
Use Waste disposal

Brine treatment
RT Brines
RT Liquid wastes
RT Ph adjustment
RT Waste disposal

Brines
BT1 Solutions
NT1 Geothermal brines
RT Brackish water
RT Brine treatment
RT Corrosion
RT Corrosive effects
RT Geothermal fluids
RT Saline aquifers
RT Salinity
RT Salt water
RT Salts
RT Sea water
Also see Thermal effluents
Also see Thermal waters

Brittleness
BT1 Mechanical properties
RT Elasticity

Bromides
BT1 Halides
BT1 Bromine inorganic compounds

Bromine
BT1 Halogens
BT2 Nonmetals
Also see Bromine inorganic compounds

Bromine inorganic compounds
NT1 Bromides

Brooks County
BT1 Texas
BT2 Gulf Coast

Budget
See Heat budget
See Lakes

See Specific heat

Budgets
RT Allocations
RT Charges
RT Constraints
RT Cost
RT Economics
RT Financing

Buildings
NT1 Animal shelters
NT1 Commercial buildings
NT1 Farm buildings
NT1 Greenhouses
NT1 Industrial buildings
NT1 Mobile homes
NT1 Public buildings
NT1 Residential buildings
RT Construction
RT Retrofitting
Also see Apartment buildings
Also see Office buildings

Buildup
Also see Pressure buildup
Use Accumulation

Bulk
See Density

Bulk density
Use Density

Bureau of Reclamation
Use US Bureau of Reclamation

Burial
RT Compaction
RT Diagenesis
RT Hydrothermal alteration
RT Lithification
RT Metamorphism
RT Mineralization
RT Sedimentation
Also see Depth

Burial depth
Use Depth

By-products
RT Anthropogenic occurrence
RT Desalination
RT Economics
RT Industry

Geopressured Geothermal Bibliography

RT Recovery processes	RT Gypsum
Cadmium BT1 Metals BT2 Elements	Calculation See Mathematical methods See Measurement See Measuring methods See Numerical solution
Calcasieu Parish BT1 Louisiana BT2 Gulf Coast	Calculation methods RT Mathematical methods RT Measurement RT Measuring methods RT Numerical solution
Calcite BT1 Carbonate minerals BT2 Minerals RT Calcium carbonates RT Limestone RT Marble	Calculations See Computer codes See Computers See Data analysis See Numerical analysis See Numerical solution
Calcium BT1 Alkaline earth metals BT2 Metals Also see Calcite Also see Calcium chlorides Also see Calcium inorganic compounds Also see Calcium sulfates Also see Calcium carbonates Also see Dolomite	Calibration RT Accuracy RT Measuring instruments RT Measuring methods RT Sensitivity
Calcium carbonates BT1 Calcium inorganic compounds BT1 Carbonates BT2 Oxygen inorganic compounds RT Calcite RT Dolomite	California BT1 USA BT2 North America NT1 Coalinga NT1 Coso Hot Springs KGRA NT1 Geysers Geothermal Field NT1 Great Valley NT1 Imperial County NT1 Imperial Valley NT1 Kettleman Hills NT1 Lost Hills NT1 Mono-long Valley KGRA NT1 San Andreas Fault NT1 San Joaquin Valley RT Coast ranges RT Franciscan Formation
Calcium chlorides BT1 Calcium inorganic compounds BT1 Chlorides BT2 Chlorine inorganic compounds	Caliper See Caliper logging See Hole diameter
Calcium inorganic compounds NT1 Calcium carbonates NT1 Calcium chlorides NT1 Calcium sulfates	Caliper logging BT1 Well logging RT Hole diameter
Calcium sulfates BT1 Calcium inorganic compounds BT1 Sulfates BT2 Oxygen inorganic compounds BT2 Sulfur inorganic compounds RT Anhydrite	Calstic ratio RT Facies maps
	Calstic ratio maps

RT Facies maps

Cambrian
See Cambrian Period

Cambrian Period
BT1 Paleozoic Era
BT2 Geologic times

Cameron County
BT1 Texas
BT2 Gulf Coast

Cameron Fairway
BT1 Texas
BT2 USA
BT3 North America

Cameron Parish
BT1 Louisiana
BT2 Gulf Coast

Cane
See Sugar cane

Cap
See Aquifers
See Dissolved gases
See Rocks
See Salt domes
See Traps

Cap rock
RT Aquifers
RT Rocks
RT Salt domes
RT Traps

Capacity
See Specific heat

Capillary
See Capillary water
See Free water

Capillary pressure
RT Capillary water
RT Pore pressure
RT Surface properties

Capillary water
BT1 Subsurface waters
RT Free water

Capillary Flow

BT1 Fluid flow

Capital
RT Cost
RT Economics
RT Financing
RT Investment

Caps
See Natural gas

Carbon
BT1 Nonmetals
BT2 Elements
Also see Carbon dioxide
Also see Carbon inorganic compounds
Also see Carbon steels
Also see Dissolved gases

Carbon dioxide
BT1 Carbon inorganic compounds
BT1 Oxygen inorganic compounds
RT Dissolved gases

Carbon inorganic compounds
NT1 Carbon dioxide
NT1 Carbonates

Carbon steels
BT1 Steels
BT2 Alloys

Carbonate
See Carbonate minerals
See Carbonate rocks
See Carbonates
See Sedimentary rocks

Carbonate minerals
BT1 Minerals
NT1 Calcite
NT1 Dolomite
NT1 Shortite
NT1 Siderite
RT Carbonate rocks
RT Carbonates

Carbonate rocks
BT1 Reservoir rocks
BT2 Rocks
RT Carbonate minerals
RT Dolomite
RT Limestone

Geopressured Geothermal Bibliography

RT Sedimentary rocks

Carbonates
BT1 Carbon inorganic compounds
BT1 Oxygen inorganic compounds
NT1 Calcium carbonates
RT Carbonate minerals
Also see Calcite
Also see Calcium carbonates
Also see Dolomite
Also see Magnesium carbonates

Carboniferous
See Carboniferous Periods

Carboniferous Periods
BT1 Paleozoic Era
BT2 Geologic times
NT1 Mississippian Period
NT1 Pennsylvanian Period

Caribbean
See Caribbean Sea

Caribbean Sea
BT1 Atlantic Ocean
BT2 Seas
NT1 Gulf of Mexico

Carnot
See Carnot cycle

Carnot cycle
BT1 Thermodynamic cycles

Carpathian Basin
BT1 Hungary
BT2 Europe

Case
See Case histories
See Field studies

Case histories
BT1 Document types
RT Field studies

Casing programs
BT1 Design
RT Well casings

RT Well completion

Casings
See Well casings
See Well design
See Well drilling
See Wells

Caspian Basin
RT Caspian Sea
RT USSR

Caspian Sea
BT1 Lakes
BT2 Surface waters
RT Caspian Basin
RT USSR

Catagenesis
RT Diagenesis
RT Sediments

Cations
BT1 Ions
RT Electrolysis

Cavitation
RT Descaling
RT Erosion
RT Fluid flow
RT Pitting corrosion

Cavitation erosion
Use Cavitation

Cells
See Convection
See Earth mantle
See Plate tectonics
See Tectonics

Cement
See Cement bond logging

Cement bond logging
BT1 Well logging
RT Sonic logging

Cementing
See Drilling
See Well cementing
See Well design

Cenozoic Era
BT1 Geologic times
NT1 Quaternary Period

NT1 Tertiary Period

See Diagrams

Central
See Central America
See District heating
See Space heating

Central heating plants
RT District heating
RT Space heating

Central America
NT1 El Salvador

Cerro Prieto
See Cerro Prieto Geothermal Field
See Hot water systems

Cerro Prieto Geothermal Field
BT1 Geothermal fields
BT1 Mexico
BT2 North America
RT Hot water systems

Cesium
BT1 Alkali metals
BT2 Metals

Chalcedony
BT1 Silica minerals
BT2 Minerals

Chalcopyrite
BT1 Sulfide minerals
BT2 Minerals

Characteristics
See Reservoir properties
See Rock properties
See Well characteristics

Charges
RT Budgets
RT Cost
RT Economics
RT Financing
RT Income
RT Profits

Charging
RT Injection

Charts

Chemical
See Acidization
See Chemical analysis methods
See Chemical analysis
See Chemical composition
See Chemical effluents
See Chemical equilibrium
See Chemical explosions
See Chemical explosives
See Chemical properties
See Chemical reactions
See Chemisorption
See Chemistry
See Gas analysis
See Gas chromatography
See Gaseous wastes
See Liquid wastes
See Measuring methods
See Mineral wastes
See Ph adjustment
See Ph value
See Physical properties
See Pollution
See Qualitative chemical analysis
See Quantitative chemical analysis
See Rock properties
See Salinity
See Solid wastes
See Surface properties

Chemical analysis
BT1 Analysis
NT1 Qualitative chemical analysis
NT1 Quantitative chemical analysis
RT Chemical analysis methods
RT Chemical composition
RT Classification

Chemical analysis methods
BT1 Measuring methods
NT1 Air analysis
NT1 Chromatography
NT1 Gas chromatography
NT1 Gas analysis
NT1 Spectroscopy
RT Chemical analysis
RT Qualitative chemical analysis
RT Quantitative chemical

Geopressured Geothermal Bibliography

analysis

Chemical composition
BT1 Composition
RT Abundance
RT Chemical analysis
RT Concentration dependence
RT Ph value
RT Qualitative chemical analysis
RT Quantitative chemical analysis
RT Rock properties
RT Salinity
RT Saturation

Chemical effluents
RT Gaseous wastes
RT Liquid wastes
RT Mineral wastes
RT Pollution
RT Solid wastes

Chemical equilibrium
BT1 Equilibrium
RT Chemical reactions
RT Saturation

Chemical explosions
BT1 Explosions

Chemical explosives
BT1 Explosives

Chemical properties
NT1 Flammability
NT1 Ph value
NT1 Salinity
NT1 Solubility
RT Chemical reactions
RT Chemistry
RT Physical properties
RT Surface properties

Chemical reactions
NT1 Corrosion
NT1 Decomposition
NT1 Polymerization
NT1 Redox reactions
RT Chemical equilibrium
RT Chemical properties
RT Chemistry
RT Ph dependence
RT Rock fluid interactions

Chemical treatment
Use Acidization

Use Ph adjustment

Chemically precipitated rocks
Use Evaporites

Chemisorption
RT Adsorption
RT Chromatography
RT Diffusion
RT Porosity
RT Separation processes

Chemistry
NT1 Geochemistry
RT Chemical properties
RT Chemical reactions
RT Qualitative chemical analysis
RT Quantitative chemical analysis

Chert
BT1 Nonclastic rocks
BT2 Sedimentary rocks

China
BT1 Asia
BT2 Continents
Also see South China Sea

Chlorides
BT1 Chlorine inorganic compounds
BT1 Halides
NT1 Calcium chlorides
NT1 Magnesium chlorides
NT1 Sodium chlorides
Also see Calcium chlorides
Also see Magnesium chlorides
Also see Sodium chlorides

Chlorine
BT1 Halogens
BT2 Nonmetals
Also see Chlorine inorganic compounds

Chlorine inorganic compounds
NT1 Chlorides

Chlorite
See Chlorite minerals

Chlorite minerals
BT1 Silicate minerals

BT2 Minerals RT Limestone

Chocolate Bayou Geothermal Field
BT1 Geothermal fields
BT1 Texas
BT2 USA
BT3 North America

Chromatography
BT1 Separation processes
BT1 Chemical analysis methods
BT2 Measuring methods
NT1 Gas chromatography
RT Chemisorption

Chromium
BT1 Transition elements
BT2 Metals

Circulating
See Circulating rate

Circulating rate
BT1 Flow rate
BT2 Rates

Circulation
RT Drilling fluids
RT Wells
Also see Circulating rate
Also see Lost circulation
Also see Permeability
Also see Porosity
Also see Wells

Circulation rate
Use Circulating rate

Cities
Use Urban areas

Classification
RT Chemical analysis

Clastic
See Clastic rocks

Clastic rocks
BT1 Sedimentary rocks
BT2 Rocks
NT1 Mudstone
NT1 Sandstone
NT1 Shale
NT1 Siltstone

Clay
RT Argillaceous rocks
RT Clay mineralogy
RT Clay minerals
RT Sand
Also see Clay mineralogy
Also see Clay minerals

Clay mineralogy
RT Clay
RT Clay minerals

Clay minerals
BT1 Silicate minerals
BT2 Minerals
NT1 Illite
NT1 Kaolin
NT1 Montmorillonite
RT Argillaceous rocks
RT Clay
RT Clay mineralogy
RT Sand

Cleaning
See Air

Climates
RT Arctic regions
RT Atmospheric precipitations
RT Meteorology
RT Polar regions
RT Seasons
RT Weather
RT Wind

Closed-cycle systems
RT Thermodynamic cycles

Co-generation
BT1 Power generation
RT District heating

Coal
BT1 Fossil fuels
BT2 Fuels
RT Coal deposits
RT Coal reserves
RT Vitrinite
Also see Coal reserves

Coal deposits
RT Coal
RT Coal reserves

NT1 Office buildings	RT Standards
Commercialization RT Demonstration programs RT Market RT Technology utilization	Composition NT1 Chemical composition NT1 Mineral composition Also see Ph value Also see Rock properties Also see Salinity Also see Scale monitoring Also see Scaling Also see Scaling control
Communities RT Demography RT Ecosystems RT Populations RT Public health RT Socio-economic factors	Compounds See Aluminum inorganic compounds See Barium inorganic compounds See Boron inorganic compounds See Bromine inorganic compounds See Calcium inorganic compounds See Carbon inorganic compounds See Chlorine inorganic compounds See Fluorine inorganic compounds See Hydrogen inorganic compounds See Inorganic compounds See Iodine inorganic compounds See Iron inorganic compounds See Magnesium inorganic compounds See Nitrogen inorganic compounds See Organic compounds See Oxygen inorganic compounds See Silver inorganic compounds See Sodium inorganic compounds See Strontium inorganic compounds See Sulfur inorganic compounds See Uranium inorganic compounds
Compaction RT Burial RT Compression RT Consolidation RT Diagenesis RT Ground subsidence RT Porosity RT Reservoir engineering RT Sandstone	
Comparative See Comparative evaluations	
Comparative evaluations RT Correlation RT Cost benefit analysis RT Efficiency RT Evaluation RT Feasibility studies RT Functional models RT Mathematical models RT Performance RT Test facilities	
Completion See Well completion See Well design See Well drilling	
Completion (wells) Use Well completion	
Compliance RT Laws RT Legal aspects RT Recommendations RT Regulations	
	Compressibility BT1 Mechanical properties RT Fluid properties

Geopressured Geothermal Bibliography

RT Piezometers	RT Programming
Compression RT Compaction RT Consolidation RT Rock deformation	Concentration See Chemical composition See Elevated concentration See High concentration See Infinite dilution See Low concentration See Moderate concentration See Ph value See Solutions See Trace amounts
Compressors RT Pumps	Concentration (<0.01 molal) Use Low concentration
Computer See Computer codes See Computers See Data analysis See Numerical analysis See Numerical solution See Programming	Concentration (>1.0 molal) Use High concentration
Computer calculations RT Computerized simulation RT Computer codes RT Computers RT Data analysis RT Numerical analysis RT Numerical solution	Concentration (infinite dilution) Use Infinite dilution
Computer codes NT1 G codes RT Algorithms RT Computer calculations RT Computers RT Mathematical models RT Programming RT Simulation	Concentration (0.01-0.10 molal) Use Moderate concentration
Computer programming Use Programming	Concentration (0.10-1.0 molal) Use Elevated concentration
Computer programs Use Computer codes	Concentration dependence RT Chemical composition RT Elevated concentration RT High concentration RT Low concentration RT Moderate concentration RT Solutions
Computerized simulation BT1 Simulation RT Computer calculations	Concordant See Concordant intrusions
Computers RT Computer calculations RT Computer codes RT Data processing	Concordant intrusions BT1 Igneous intrusions NT1 Sill intrusions
	Condensates RT Condensation RT Gas condensation RT Natural gas RT Petroleum RT Steam Also see Gases
	Condensers NT1 Vapor condensers

Also see Steam condensers

Conditioning
See Air
See Cooling
See Cooling systems
See Direct energy utilization
See Thermal insulation
See Water treatment

Conditions
See Personnel
See Safety

Conduction
See Thermal conduction

Conductivity
Also see Heat flow
Also see Thermal conduction
Also see Thermal conductivity
Also see Thermal insulation
Use Electric conductivity

Conferences
Use Meetings

Confined
See Artesian aquifers
See Artesian water

Confined aquifers
Use Artesian aquifers

Confined ground water
Use Artesian water

Congressional hearings
Use Hearings

Connate
See Connate water

Connate water
BT1 Interstitial water
BT2 Ground water

Conservation
See Energy conservation
See Energy consumption
See Resource conservation
See Resources

Conservation (energy)

Use Energy conservation

Conservation (resource)
Use Resource conservation

Consolidation
RT Compaction
RT Compression
RT Deformation
RT Density
RT Ground subsidence
RT Soil mechanics
RT Strains

Constant
See Dielectric constant

Constraints
RT Budgets

Construction
NT1 Retrofitting
RT Buildings
RT Installation
RT Planning

Consumption
See Energy consumption
See Exploitation

Consumption rates
RT Energy consumption

Contained
See Contained explosions
See Underground explosions

Contained explosions
BT1 Explosions
RT Underground explosions

Contamination
RT Environmental effects
RT Radioactive wastes
RT Radioactivity

Contemporaneous faults
Use Growth faults

Content
See Chemical analysis
See Enthalpy
See Salinity

Content analysis

Geopressured Geothermal Bibliography

Use Chemical analysis	RT Fabrication
Continental See Coastal waters See Continental crust See Continents See Marine geology See Oceanic crust See Plate tectonics See Rift valleys See Seas	Control NT1 Geologic control NT1 Pollution control NT1 Pressure control NT1 Remote control NT1 Scaling control NT1 Shale control NT1 Temperature control RT Abatement RT Monitoring RT Optimization Also see Air pollution Also see Air pollution control Also see Corrosion protection Also see Gravel packing Also see Isopiestic measurement Also see Land pollution Also see Land pollution control Also see Noise pollution Also see Noise pollution control Also see Pollution control equipment Also see Sand production Also see Scale monitoring Also see Scaling Also see Temperature monitoring Also see Thermal insulation Also see Water pollution Also see Water pollution control
Continental crust BT1 Earth crust BT2 Earth planetary structure RT Earth planet RT Oceanic crust	
Continental drift RT Continents RT Plate tectonics RT Rift valleys	
Continental shelf RT Coastal waters RT Continents RT Marine geology	
Continental slopes RT Continents RT Marine geology RT Oceanic crust RT Seas	
Continents NT1 Africa NT1 Asia NT1 Australia NT1 Europe NT1 North America NT1 South America RT Continental drift RT Continental shelf RT Continental slopes	Convection BT1 Heat transfer BT2 Energy transfer RT Convection cells RT Mass transfer Also see Earth mantle Also see Plate tectonics Also see Tectonics
Contour See Contour maps	
Contour maps BT1 Maps BT2 Document types	Convection cells RT Convection RT Earth mantle RT Plate tectonics RT Tectonics
Contracts RT Agreements	Convective

See Hydrothermal systems

Conversion
NT1 Energy conversion
Also see Energy transfer
Also see Geothermal energy conversion
Also see Ocean thermal power plants
Also see Ocean thermal energy conversion
Also see Solar energy conversion
Also see Working fluids

Cooling
NT1 District cooling
RT Air conditioning
RT Cooling ponds
RT Cooling systems
RT Cooling towers
RT Heat transfer
Also see Cooling ponds
Also see Cooling systems
Also see Heat exchangers
Also see Lakes
Also see Power plants
Also see Vapor condensers

Cooling ponds
BT1 Water reservoirs
BT2 Surface waters
RT Cooling
RT Cooling systems
RT Lakes

Cooling systems
RT Air conditioning
RT Cooling
RT Cooling ponds
RT Cooling towers

Cooling towers
RT Cooling
RT Cooling systems
RT Heat exchangers
RT Power plants

RT Vapor condensers

Copper
BT1 Transition elements
BT2 Metals

Copper pyrites
Use Chalcopyrite

Core
See Coring equipment
See Earth core

Core (earth)
Use Earth core

Core barrel
Use Coring equipment

Cores
Also see Drills
Also see Well drilling
Also see Well logging
Use Drill cores

Coring
See Coring equipment

Coring equipment
BT1 Drilling equipment
BT2 Equipment

Corpus Christi Fairway
BT1 Texas
BT2 USA
BT3 North America

Correlation
RT Comparative evaluations
RT Evaluation
RT Forecasting

Geopressured Geothermal Bibliography

RT Mathematical models	RT Corrosion monitoring
Corrosion	Corrosion protection
BT1 Chemical reactions	RT Coatings
NT1 Crevice corrosion	RT Corrosion
NT1 Pitting corrosion	RT Corrosion inhibitors
NT1 Scaling	RT Corrosion monitoring
NT1 Stress corrosion	RT Crevice corrosion
RT Abrasion	RT Stainless steels
RT Antifoulants	
RT Brines	
RT Corrosion inhibitors	
RT Corrosion monitoring	
RT Corrosion products	
RT Corrosion protection	
RT Corrosion resistant alloys	
RT Corrosion resistance	
RT Dissolved gases	
RT Erosion	
RT Failures	
RT Fouling	
RT Materials testing	
RT Salinity	
RT Solutions	
RT Surface properties	
Also see Corrosion monitoring	
Also see Corrosion protection	
Also see Corrosion resistant alloys	
Also see Corrosive effects	
Also see Stainless steels	
Corrosion control	
Use Corrosion protection	
Corrosion inhibitors	
RT Corrosion	
RT Corrosion monitoring	
RT Corrosion protection	
Corrosion monitoring	
BT1 Monitoring	
RT Corrosion	
RT Corrosion inhibitors	
RT Corrosion products	
RT Corrosion protection	
RT Corrosive effects	
RT Crevice corrosion	
Corrosion products	
RT Corrosion	

Use Cost

County

- See Brazoria County
- See Brewster County
- See Brooks County
- See Cameron County
- See Culberson County
- See El Paso County
- See Galveston County
- See Greene County
- See Harris County
- See Hidalgo County
- See Hudspeth County
- See Jeff Davis County
- See Kenedy County
- See Kleberg County
- See Matagorda County
- See Nueces County
- See Parish
- See Presidio County
- See Rankin County
- See Starr County
- See Willacy County

Courts

- RT Hearings
- RT Lawsuits

Cracks

- RT Fissures
- RT Fracture properties
- RT Fractures

Creep

- BT1 Mechanical properties
- RT Earth movements
- RT Rheology
- RT Salt tectonics

Cretaceous Period

- BT1 Mesozoic Era
- BT2 Geologic times
- RT Franciscan Formation

Crevice

- See Crevice corrosion

Crevice corrosion

- BT1 Corrosion
- BT2 Chemical reactions
- RT Corrosion monitoring
- RT Corrosion protection
- RT Corrosion resistance
- RT Geothermal fluids
- RT Heat exchangers

RT Stainless steels

Cristobalite

- BT1 Silica minerals
- BT2 Minerals

Crops

- RT Agriculture
- RT Cultivation
- RT Cultivation techniques
- RT Plants

Cross sections

- Use Geologic cross sections

Crude oil

- Use Petroleum

Crust

- See Continental crust
- See Earth crust
- See Oceanic crust

Crust (earth)

- Use Earth crust

Crystal

- See Crystallography

Crystal structures

- Use Crystallography

Crystallization

- RT Amorphous state
- RT Crystals
- RT Mineralization
- RT Precipitation
- RT Solidification

Crystallography

- BT1 Nuclear magnetic resonance
- BT2 Measuring methods
- RT Crystals
- RT Minerals

Crystals

- RT Crystallization
- RT Crystallography
- RT Solids

Culberson County

- BT1 Texas
- BT2 Gulf Coast

Cultivation

- NT1 Cultivation techniques
- RT Crops

Geopressured Geothermal Bibliography

Also see Agriculture	BT2 Continents
Cultivation techniques BT1 Cultivation RT Agriculture RT Crops RT Irrigation	Damage See Disposal formations See Permeability See Plugging See Well completion
Cultural resources	Data
Culture See Aquaculture	BT1 Information RT Data compilation RT Data analysis RT Data processing RT Experimental results RT Graphs RT Information needs RT Tables Also see Bottom hole pressure Also see Bottom hole temperature Also see Computers Also see Data acquisition systems Also see Data analysis Also see Data processing Also see Detection Also see Downhole sampling Also see Reservoir properties Also see Well characteristics Also see Well completion Also see Well data Also see Well head pressure Also see Well head temperature Also see Wells
Current See Telluric surveys	
Curves Use Diagrams	
Cuttings RT Boreholes RT Drilling fluids RT Drill cores RT Well logging RT Wells See Cuttings (rock) See Drill cuttings See Rock cuttings	
Cuttings analysis RT Cuttings	Data acquisition RT Detection
Cycle See Binary cycle power generation See Brayton cycle See Carnot cycle See Combined cycle power plants See Combined cycle power generation See Power generation See Rankine cycle See Steam turbine power generation See Thermodynamic cycles	Data acquisition systems RT Recording systems
Cycles Also see Binary cycle power systems Also see Gas turbine power generation Also see Thermodynamic cycles Use Binary cycles	Data analysis BT1 Analysis RT Computer calculations RT Data RT Data processing
Czechoslovakia BT1 Europe	Data compilation RT Data
	Data processing BT1 Processing RT Computers RT Data

RT Data analysis	RT Sediments
Datum pressure Use Reservoir pressure	Demand See Energy balance See Energy consumption See Energy demand See Energy sources See Energy storage
Decline See Pressure decline	Demineralization BT1 Separation processes NT1 Desalination RT Direct energy utilization RT Electrodialysis RT Fouling
Decomposition BT1 Chemical reactions NT1 Hydrolysis	Demography BT1 Sociology RT Communities RT Human populations
Deep drilling BT1 Well drilling BT2 Drilling	Demonstration See Commercialization See Industrial plants See Pilot plants See Planning See Research programs
Deep wells BT1 Wells RT Dewatering	Demonstration plants RT Industrial plants RT Pilot plants
Deformation BT1 Thermoelasticity NT1 Rock deformation RT Consolidation RT Elongation RT Fractures RT Mechanical properties RT Plasticity RT Rheology RT Strains	Demonstration programs RT Commercialization RT Planning RT Research programs
Dehydration RT Dewatering RT Evaporation	Density BT1 Physical properties RT Consolidation RT Density gradients RT Fluid properties RT Mud weight RT Volume
Delaware See Delaware basin See Texas	Density gradients RT Density
Delaware Basin BT1 Geologic provinces BT1 USA RT Texas	Department of Energy
Deltas RT Alluvium RT Rivers RT Sediment deposits RT Sedimentation	

Geopressured Geothermal Bibliography

Use US DOE

Dependence

See Chemical composition
See Chemical reactions
See Elevated concentration
See Elevated pressure
See Elevated temperature
See High concentration
See High pressure
See High temperature
See Isopiestic measurement
See Low concentration
See Low pressure
See Low temperature
See Moderate concentration
See Moderate pressure
See Moderate temperature
See Ph adjustment
See Ph value
See Pressure decline
See Solutions
See Standard pressure
See Standard temperature
See Temperature distribution
See Temperature effects

Depletion

See Availability
See Energy consumption
See Geothermal resources
See Overdraft
See Resource depletion

Depletion (ground water)

Use Overdraft

Depletion (resource)

Use Resource depletion

Deposition

RT Accumulation
RT Accumulation rate
RT Adsorption
RT Depositional environment
RT Fouling
RT Geologic deposits
RT Growth faults
RT Precipitation
RT Sedimentary petrology
RT Sedimentation

Deposition rate

Use Accumulation rate

Depositional

See Burial
See Depositional environment

See Growth faults

Depositional environment

BT1 Environment
RT Deposition
RT Paleoecology
RT Sedimentation
RT Sediments

Depositional faults

Use Growth faults

Deposits

See Alluvial deposits
See Alluvium
See Anticlines
See Coal
See Coal reserves
See Geologic deposits
See Geophysical surveys
See Natural gas
See Natural gas deposits
See Natural gas industry
See Petroleum
See Petroleum deposits
See Petroleum industry
See Radioactive wastes
See Resources
See Salt deposits
See Salt domes
See Sediment deposits
See Stratigraphic traps
See Structural traps
See Traps

Deposits (geological)

Use Geologic deposits

Depth

BT1 Dimensions
RT Distance

Deregulation

RT Economics
RT Natural gas
RT Petroleum
RT Regulations

Desalination

BT1 Demineralization
BT2 Separation processes
RT By-products
RT Direct energy utilization
RT Electrodialysis
RT Evaporators
RT Salinity
RT Salts
RT Sea water

RT Water treatment	BT3 North America
Descaling RT Cavitation RT Scale monitoring	DeWitt Fairway BT1 Texas BT2 USA BT3 North America
Description See Well information systems See Well logging	Diabase BT1 Intrusive rocks BT2 Igneous rocks
Design NT1 Casing programs NT1 Well design RT Feasibility studies RT Planning RT Specifications	Diagenesis RT Burial RT Catagenesis RT Compaction RT Lithification
Desulfurization RT Air pollution abatement RT Recovery processes	Diagrams BT1 Document types RT Maps RT Photographs
Detection RT Data acquisition RT Exploration RT Monitoring Also see Seismic detection Also see Seismic s waves	Diameter NT1 Hole diameter
Determination See Geochronology	Diapirism RT Salt domes
Development RT Exploitation RT Leasing Also see US ERDA	Diapirs BT1 Anticlines BT2 Folds NT1 Shale diapirs RT Salt domes
Devonian See Devonian Period	Diastrophism BT1 Geologic processes RT Faults RT Tectonics
Devonian Period BT1 Paleozoic Era BT2 Geologic times	Dickite BT1 Kaolin BT2 Clay minerals
Dewatering RT Deep wells RT Dehydration RT Drawdown RT Evaporation RT Ground water RT Pumping RT Wells	Dielectric See Dielectric constant
DeWitt County BT1 Texas BT2 USA	Dielectric constant BT1 Electrical properties BT2 Physical properties
	Differential See Differential equations See Differential pressure See Mathematics
	Differential equations BT1 Equations NT1 Lagrange equations

Geopressured Geothermal Bibliography

RT Mathematics	See Dipmeter logging
Differential pressure RT Pressure gradients	Dipmeter logging BT1 Well logging
Diffusion RT Chemisorption RT Diffusivity RT Electrodialysis RT Mass transfer RT Osmosis Also see Heat transfer Also see Thermal diffusivity	Direct energy utilization RT Agriculture RT Air conditioning RT Demineralization RT Desalination RT District heating RT Energy storage RT Geothermal refrigeration RT Geothermal space heating RT Greenhouses RT Industrial heating RT Process heat RT Space heating RT Uses
Diffusion coefficient Use Diffusivity	
Diffusivity BT1 Hydrologic properties RT Diffusion Also see Thermal diffusivity Also see Thermal insulation	Directional See Directional drilling
Dike intrusions BT1 Discordant intrusions BT2 Igneous intrusions	Directional drilling BT1 Drilling RT Enhanced recovery RT Geothermal wells RT Well drilling
Dikes Use Dike intrusions	Directory BT1 Document types
Dilute See Low concentration	Discharge See Flow rate See Heat flow See Waste heat
Dilute solutions Use Low concentration	Discharge rate Use Flow rate
Dilution RT Infinite dilution Also see Low concentration Also see Solutions Also see Trace amounts	Discordant See Batholiths See Discordant intrusions
Dimensions NT1 Depth NT1 Thickness RT Distance	Discordant intrusions BT1 Igneous intrusions NT1 Dike intrusions RT Batholiths RT Stock intrusions
Dioxide See Carbon dioxide See Dissolved gases	Dispersions RT Solids
Dip See Dipmeter logging	Displacements RT Faults
Dip logging Use Dipmeter logging	
Dipmeter	

RT Strains	RT Water analysis
Disposal See Disposal formations See Disposal wells See Gaseous wastes See Gravel packing See Injection wells See Liquid wastes See Radioactive wastes See Salt deposits See Solid wastes See Stack disposal See Surface disposal See Surface equipment See Underground disposal See Waste disposal See Waste water See Wastes See Water pollution See Well design	Dissolved salts BT1 Salts
Disposal formations RT Disposal wells RT Formation damage RT Waste disposal RT Well design	Dissolved solids BT1 Solids RT Dissolved gases RT Salinity RT Salts RT Solid wastes RT Solubility RT Solutions RT Suspended solids RT Water analysis
Disposal wells BT1 Injection wells BT2 Wells RT Disposal formations RT Waste disposal RT Well design	Distance RT Depth RT Dimensions RT Thickness
Dissolved See Dissolved gases See Dissolved salts See Dissolved solids See Water analysis	Distribution NT1 Geographical distribution NT1 Temperature distribution RT Abundance RT Allocations RT Anisotropy RT Isotropy Also see Geography Also see Temperature surveys
Dissolved gases BT1 Gases BT2 Fluids RT Ammonia RT Carbon dioxide RT Corrosion RT Dissolved solids RT Hydrogen sulfides RT Methane RT Oxygen RT Solubility RT Solutions	District See Direct energy utilization See District cooling See District heating See Hot water heating
	District cooling BT1 Cooling
	District heating BT1 Heating RT Central heating plants RT Co-generation RT Direct energy utilization RT Hot water heating RT Space heating
	Document

Geopressured Geothermal Bibliography

See Document types

Document types

NT1 Abstracts
NT1 Bibliographies
NT1 Case histories
NT1 Diagrams
NT1 Directory
NT1 Environmental impact statements
NT1 Field studies
NT1 Indexes
NT1 Lectures
NT1 Manuals
NT1 Maps
NT1 Patents
NT1 Proceedings
NT1 Reviews
NT1 Textbooks
NT1 Theoretical treatments
RT Experimental results
RT Information
RT Meetings
RT Tables

Documentation

RT Information systems

Dolomite

BT1 Carbonate minerals
BT2 Minerals
RT Calcium carbonates
RT Carbonate rocks
RT Dolomite rocks
RT Magnesium carbonates
RT Marble
Also see Dolomite rocks

Dolomite mineral

Use Dolomite

Dolomite rocks

BT1 Nonclastic rocks
BT2 Sedimentary rocks
RT Dolomite

Domes

See Salt domes
See Salt tectonics

Domestic

See Agriculture
See Domestic animals

Domestic animals

BT1 Animals

RT Agriculture

Downhole

See Bottom hole pressure
See Bottom hole temperature
See Downhole pumps
See Downhole sampling
See Well design

Downhole pressure

Use Bottom hole pressure

Downhole pumps

BT1 Pumps
RT Well design

Downhole sampling

BT1 Sampling
RT Well data

Downhole temperature

Use Bottom hole temperature

Drainage

See Hydrology
See Rivers

Drainage systems

RT Hydrology
RT Rivers

Drawdown

RT Dewatering
RT Ground water
RT Ground water recharge
RT Pressure decline
RT Water table
RT Well spacing

Drawings

Use Diagrams

Drift

See Continents
See Plate tectonics
See Rift valleys

Drill

See Boreholes
See Drill bits
See Drill collars
See Drill cores
See Drill pipes
See Drill stem testing
See Drills
See Well drilling

See Well logging

Drill bits

BT1 Drilling equipment
BT2 Equipment
RT Drill pipes
RT Drills
RT Well drilling

Drill collars

BT1 Drilling equipment
BT2 Equipment
RT Well drilling

Drill cores

RT Drills
RT Well drilling
RT Well logging

Drill holes

Use Boreholes

Drill pipes

BT1 Pipes
BT1 Drilling equipment
BT2 Equipment
RT Drill bits
RT Drilling rigs
RT Drills

Drill stem testing

BT1 Testing
BT1 Well testing
RT Formation testing

Drillability

See Rock failures

Drilling

NT1 Directional drilling
NT1 Rock drilling
NT1 Well drilling
RT Drilling fluids
RT Drilling rigs
RT Formation testing
RT MWD systems
RT Well cementing
RT Wells
Also see Blowout preventers
Also see Circulating rate
Also see Circulation
Also see Deep drilling
Also see Drill pipes
Also see Drilling equipment
Also see Drilling fluids
Also see Drilling rate
Also see Drills
Also see Geothermal drilling
Also see Natural gas
Also see Oil drilling
Also see Petroleum
Also see Rotary drilling
Also see Salt water
Also see Well design

Drilling equipment

BT1 Equipment
NT1 Coring equipment
NT1 Drill bits
NT1 Drill collars
NT1 Drill pipes
NT1 Drills
RT Blowout preventers
RT Drilling rigs
RT Well design

Drilling fluid flow rate
Use Circulating rate

Drilling fluids

RT Circulation
RT Drilling
RT Drills
RT Lubricants
RT Mud logging
RT Mud weight
RT Salt water
RT Well drilling

Drilling muds
Use Drilling fluids

Drilling rate

Geopressured Geothermal Bibliography

BT1 Rates	See US ERDA
Drilling rigs	Earth
RT Drill pipes	See Air
RT Drilling	See Air pollution
RT Drilling equipment	See Alkaline earth metals
RT Drills	See Atmospheric precipitations
RT Natural gas	See Continental crust
RT Petroleum	See Earth atmosphere
RT Well drilling	See Earth core
Drills	See Earth crust
BT1 Drilling equipment	See Earth mantle
BT2 Equipment	See Earth movements
RT Drill bits	See Earth penetrators
RT Drill cores	See Earth planet
RT Drill pipes	See Earth planetary structure
RT Drilling fluids	See Environment
RT Drilling rigs	See Geography
RT Rock drilling	See Geology
RT Well drilling	See Geophysics
Drinking water	See Ground motion
BT1 Water	See Meteorology
RT Fresh water	See Oceanography
RT Water quality	See Seismic waves
Drive mechanism	See Seismology
Drop	See Telluric surveys
See Flow rate	See Topography
See Fluid flow	
See Isopiestic measurement	
See Pressure drop	
See Pressure release	
Dry rock systems	Earth atmosphere
See Hot dry rock systems	NT1 Stratosphere
Dry rocks	NT1 Troposphere
See Hot dry rock systems	RT Air
Dry steam systems	RT Air pollution
Use Vapor dominated systems	RT Atmospheric precipitations
Duval Fairway	RT Earth planet
BT1 Texas	RT Environment
BT2 USA	RT Meteorology
BT3 North America	
DOE	Earth core
See US DOE	BT1 Earth planetary structure
	RT Earth planet
	Earth crust
	BT1 Earth planetary structure
	NT1 Continental crust
	NT1 Oceanic crust
	RT Earth mantle
	RT Earth planet
	RT Isostasy
	RT Lithosphere
	RT Plate tectonics
	RT Sea bed

RT Sea floor spreading structure

Earth current surveys
Use Telluric surveys

Earth interior
Use Earth core
Use Earth mantle

Earth mantle
BT1 Earth planetary structure
RT Convection cells
RT Earth crust
RT Earth planet
RT Overburden

Earth movements
NT1 Earthquakes
NT1 Ground subsidence
RT Creep
RT Earth planet
RT Geology
RT Ground motion
RT Seismic waves
RT Seismology

Earth penetrators
BT1 Penetrators
RT Subterrene penetrators

Earth planet
RT Continental crust
RT Earth atmosphere
RT Earth core
RT Earth crust
RT Earth mantle
RT Earth movements
RT Earth planetary structure
RT Geography
RT Geophysics
RT Lithosphere
RT Oceanography
RT Topography

Earth planetary structure
NT1 Earth core
NT1 Earth crust
NT1 Earth mantle
RT Earth planet
RT Lithosphere

Earth structure
Use Earth planetary

Earthquakes
BT1 Seismic events
BT1 Earth movements
NT1 Microearthquakes
RT Seismic s waves
RT Seismic waves
RT Seismology
RT Shock waves

Earths
See Rare earths

East Germany
Use German Democratic Republic

East Mesa Geothermal Field
Use East Mesa KGRA

East Mesa KGRA
BT1 KGRAS
BT1 Imperial Valley
BT2 California
RT Geothermal fields

Ecology
BT1 Biology
NT1 Baseline ecology
RT Ecosystems
RT Environment
RT Paleoecology
RT Regional analysis

Economic
See Allocations
See Economic geology
See Economic policy
See Economics
See Energy policy
See Forecasting
See Government policies
See Inflation
See Mineral production
See Socio-economic factors

Economic analysis
BT1 Economics
RT Regional analysis

Economic geology
BT1 Geology
RT Economics

Geopressured Geothermal Bibliography

RT Mineral production	BT3 North America
Economic impact RT Economics RT Inflation RT Socio-economic factors	Education RT Manuals
Economic policy RT Allocations RT Economics RT Energy policy RT Forecasting RT Government policies	Effects NT1 Biological effects NT1 Corrosive effects NT1 Environmental effects NT1 Heterogenous effects NT1 Temperature effects Also see Air pollution Also see Biology Also see Environment Also see Environmental policy Also see Heat Also see Seismic effects Also see Seismic events Also see Thermal pollution Also see Water pollution
Economics NT1 Economic analysis RT Availability RT Budgets RT By-products RT Capital RT Charges RT Cost benefit analysis RT Deregulation RT Economic geology RT Economic impact RT Economic policy RT Energy policy RT Feasibility studies RT Financial incentives RT Financing RT Income RT Inflation RT Investment RT Life-cycle cost RT Market RT Profits RT Regional analysis RT Socio-economic factors RT Subsidies RT Taxes RT Trade	Efficiency NT1 Thermal efficiency RT Comparative evaluations RT Feasibility studies RT Net energy RT Performance RT Performance testing RT Productivity Also see Thermodynamic cycles
Ecosystems NT1 Aquatic ecosystems RT Agriculture RT Biology RT Biosphere RT Communities RT Ecology RT Environment RT Populations Also see Aquatic organisms Also see Fishes	Effluents See Chemical effluents See Gaseous wastes See Liquid wastes See Mineral wastes See Pollution See Solid wastes See Temperature effects See Thermal effluents See Thermal pollution See Waste heat
Edna Delcambre No. 1 Well BT1 Louisiana BT2 USA	Effluents (chemical) Use Chemical effluents
	Effluents (gaseous) Use Gaseous wastes
	Effluents (liquid) Use Liquid wastes
	Effluents (thermal)

Use Thermal effluents

Ejectors
See Air
See Gas ejectors
See Gaseous wastes
See Pumps
See Steam

EI Paso County
BT1 Texas
BT2 Gulf Coast

EI Salvador
BT1 Central America

Elastic
See Elasticity

Elastic properties
Use Elasticity

Elasticity
BT1 Tensile properties
BT2 Mechanical properties
NT1 Thermoelasticity
RT Brittleness
RT Strains

Elastomers
BT1 Polymers

Electric
See Power generation

Electric
See Electric conductivity
See Electric heating
See Electric potential
See Electric power
See Electric power industry
See Power generation
See Power plants
See Public utilities

Electric conductivity
BT1 Electrical properties
BT2 Physical properties

Electric generators
RT Power generation

Electric heating
BT1 Heating
RT Space heating

Electric potential

Electric power
BT1 Energy
BT1 Power
RT Electric power industry
RT Power generation
RT Power plants
RT Power potential
RT Power transmission
RT Public utilities

Electric power generation
Use Power generation

Electric power industry
BT1 Industry
RT Electric power
RT Power plants

Electric power plants
Use Power plants

Electric resistivity
Use Electric conductivity

Electric utilities
Use Public utilities

Electrical
See Electric conductivity
See Electrical equipment
See Electrical logging
See Electrical properties
See Electrical surveys
See Resistivity logging

Electrical conductivity
Use Electric conductivity

Electrical equipment
BT1 Equipment

Electrical exploration
BT1 Geophysical exploration
BT2 Exploration
RT Electrical surveys
RT Well logging

Electrical logging
BT1 Well logging
NT1 Induction logging
NT1 Resistivity logging
NT1 Sp logging

Geopressured Geothermal Bibliography

RT Electrical surveys

Electrical properties

- BT1 Physical properties
- NT1 Dielectric constant
- NT1 Electric conductivity

Electrical resistivity

- Use Electric conductivity

Electrical surveys

- BT1 Geophysical surveys
- BT2 Exploration methods
- NT1 Electromagnetic surveys
- NT1 Magnetotelluric surveys
- NT1 Resistivity surveys
- NT1 Self potential surveys
- NT1 Telluric surveys
- RT Electrical logging
- RT Electrical exploration
- RT Geothermal exploration
- RT Resistivity logging

Electrodialysis

- BT1 Separation processes
- RT Demineralization
- RT Desalination
- RT Diffusion
- RT Mass transfer
- RT Permeability
- RT Semipermeable membranes

Electrolysis

- RT Anions
- RT Cations
- RT Ions

Electromagnetic

- See Electromagnetic radiation
- See Electromagnetic surveys

Electromagnetic radiation

- NT1 Gamma radiation

Electromagnetic surveys

- BT1 Electrical surveys
- BT2 Geophysical surveys
- NT1 Magnetotelluric surveys

RT Geothermal exploration

Elements

- NT1 Metals
- NT1 Nonmetals
- NT1 Semimetals
- NT1 Transuranium elements

Also see Trace amounts

Also see Transition elements

Elevated

- See Elevated concentration
- See Elevated pressure
- See Elevated temperature

Elevated concentration

- RT Concentration dependence

Elevated pressure

- RT Pressure dependence

Elevated temperature

- RT Temperature dependence

Elongation

- RT Deformation
- RT Thermal expansion

Embayment

- See Rio Grande Embayment

Emission

- See Emission spectroscopy

Emission spectroscopy

- BT1 Measuring methods

Empirical

- See Empirical equations

Empirical equations

- BT1 Equations
- RT Mathematical models
- RT Numerical solutions

Employment

Energy

NT1 Electric power
NT1 Geothermal energy
NT1 Heat
NT1 Kinetic energy
NT1 Nuclear energy
NT1 Potential energy
NT1 Solar energy
NT1 Stored energy
NT1 Wind energy
RT Energy sources
RT Thermodynamics
Also see Allocations
Also see Availability
Also see Direct energy utilization
Also see Economics
Also see Energy balance
Also see Energy conservation
Also see Energy consumption
Also see Energy conversion
Also see Energy demand
Also see Energy policy
Also see Energy reserves
Also see Energy resources
Also see Energy sources
Also see Energy storage
Also see Energy transfer
Also see Energy yield
Also see Exploitation
Also see Geothermal energy conversion
Also see Heat storage
Also see KGRAs
Also see Net energy
Also see Nuclear power plants
Also see Ocean thermal power plants
Also see Ocean thermal energy conversion
Also see Power potential
Also see Productivity
Also see Reserves
Also see Resources
Also see Solar energy conversion
Also see Solar power plants
Also see US AEC
Also see US DOE
Also see US ERDA
Also see Wind power plants
Also see Working fluids

Energy accounting
BT1 Energy costs

RT Net energy

Energy balance

RT Energy demand
RT Energy supplies
RT Energy transfer
RT Energy yield
RT Heat balance

Energy conservation

RT Energy consumption
RT Resource conservation

Energy consumption

RT Consumption rates
RT Energy conservation
RT Energy demand
RT Energy supplies
RT Energy yield
RT Exploitation
RT Net energy
RT Resource depletion

Energy conversion

BT1 Conversion
NT1 Geothermal energy conversion
NT1 Solar energy conversion
RT Energy transfer
RT Working fluids

Energy demand

RT Energy balance
RT Energy consumption
RT Energy sources
RT Energy storage
RT Energy supplies
RT Energy yield

Energy policy

BT1 Government policies
RT Allocations
RT Economic policy
RT Economics

Energy potential
Use Power potential

Energy recovery

RT Heat
RT Kinetic energy
RT Materials recovery
RT Potential energy
RT Thermodynamics

Energy reserves

BT1 Reserves

Geopressured Geothermal Bibliography

RT Availability

Energy resources

Energy source development

RT Energy sources
RT Resource assessment
RT Resource development
RT Resource potential
RT Risk assessment

Energy sources

NT1 Fossil fuels
NT1 Fuel gas
NT1 Heat sources
NT1 Tidal power
RT Availability
RT Energy
RT Energy demand
RT Energy supplies
RT Energy yield
RT Energy source development

Energy storage

BT1 Storage
NT1 Heat storage
RT Direct energy utilization
RT Energy demand
RT Energy supplies
RT Energy yield
RT Stored energy

Energy supplies

RT Energy balance
RT Energy consumption
RT Energy demand
RT Energy sources
RT Energy storage
RT Energy yield
RT Reserves
RT Resources

Energy transfer

NT1 Heat transfer
RT Energy balance
RT Energy conversion
RT Energy yield
RT Mass transfer

Energy yield

RT Energy balance
RT Energy consumption
RT Energy demand
RT Energy sources
RT Energy storage
RT Energy supplies
RT Energy transfer
RT Net energy

RT Productivity

Energy Research and Development Administration

Use US ERDA

Enforcement

RT Laws
RT Legal aspects
RT Regulations

Engineering

NT1 Engineering geology
NT1 Reservoir engineering
RT Engineering properties
Also see Compaction
Also see Exploitation
Also see Geopressured reservoirs
Also see Marine geology
Also see Reservoir rocks
Also see Safety

Engineering geology

BT1 Geology
BT1 Engineering
RT Exploitation
RT Marine geology
RT Mineral resources
RT Petroleum geology

Engineering properties

RT Engineering

Enhanced recovery

RT Directional drilling

Enthalpy

BT1 Thermodynamic properties
BT2 Physical properties

NT1 Reaction heat

Environment

- NT1 Depositional environment
- RT Accidents
- RT Aquatic ecosystems
- RT Biosphere
- RT Earth atmosphere
- RT Ecology
- RT Ecosystems
- RT Environmental effects
- RT Environmental geology
- RT Environmental policy
- RT Environmental impact statements
- RT Hydrosphere
- RT Paleoecology
- RT Pollution
- RT Populations
- RT Regional analysis
- RT Site selection
- RT Surface waters

Environmental

- See Air pollution
- See Environment
- See Environmental effects
- See Environmental geology
- See Environmental policy
- See Environmental impact statements
- See Thermal pollution
- See US EPA
- See Water pollution

Environmental effects

- BT1 Effects
- RT Abatement
- RT Air pollution
- RT Biological effects
- RT Contamination
- RT Environmental impacts
- RT Environment
- RT Environmental policy
- RT Fault activation
- RT Hydrogen sulfides
- RT Thermal pollution
- RT Water pollution

Environmental geology

- BT1 Geology
- RT Environment

Environmental impact statements

- BT1 Document types
- RT Environment

RT Environmental effects

Environmental impacts

- RT Environmental policy

Environmental policy

- BT1 Government policies
- RT Environment
- RT Environmental effects

Environmental Protection Agency

- Use US EPA

Eocene

- See Eocene Epoch

Eocene Epoch

- BT1 Tertiary Period
- BT2 Cenozoic Era

Epidotes

- BT1 Silicate minerals
- BT2 Minerals

Epoch

- See Eocene Epoch
- See Miocene Epoch
- See Oligocene Epoch
- See Paleocene Epoch
- See Pleistocene Epoch
- See Pliocene Epoch
- See Recent Epoch

Equations

- NT1 Differential equations
- NT1 Empirical equations
- RT Mathematical models
- RT Mathematics
- Also see Lagrange equations

Equilibrium

- NT1 Chemical equilibrium
- NT1 Thermal equilibrium

Equipment

- NT1 Drilling equipment
- NT1 Electrical equipment
- NT1 Laboratory equipment
- NT1 Pollution control equipment
- NT1 Surface equipment
- NT1 Well logging equipment
- RT Measuring instruments
- Also see Blowout preventers
- Also see Coring equipment
- Also see Pollution control

Geopressured Geothermal Bibliography

Also see Well design	BT2 Metals
Era See Cenozoic Era See Mesozoic Era See Paleozoic Era	Evaluation RT Comparative evaluations RT Correlation RT Forecasting RT Profitability
Eras See Precambrian Eras	Evaluations See Comparative evaluations
Erosion RT Abrasion RT Cavitation RT Corrosion	Evaporation BT1 Phase transformations NT1 Flashing RT Boiling RT Dehydration RT Dewatering RT Evaporators RT Vapors RT Volatility
Errors RT Accidents	Evaporators RT Desalination RT Evaporation RT Heat exchangers
Estimation See Geochronology	Evaporites BT1 Nonclastic rocks BT2 Sedimentary rocks RT Precipitation
Estuaries BT1 Surface waters RT Coastal waters RT Fresh water RT Offshore sites RT Rivers RT Salinity RT Sea water RT Seas	Evaporitic See Evaporites
Ethane BT1 Alkanes BT2 Hydrocarbons	Evaporitic rocks Use Evaporites
Eugene See Eugene Island Block 18 Field	Events See Seismic events
Eugene Island Block 18 Field BT1 Louisiana BT2 Gulf Coast	Evolution
Europe BT1 Continents NT1 Czechoslovakia NT1 German Democratic Republic NT1 German Federal Republic NT1 Hungary NT1 Iceland NT1 Italy NT1 Volga river RT Urals RT USSR	Exchange See Ion exchange
Europium BT1 Rare earths	Exchangers See Crevice corrosion See Heat exchangers See Steam condensers
	Expansibility Use Thermal expansivity
	Expansion NT1 Thermal expansion Also see Elongation

Also see Thermal expansivity	RT Uses
Expansivity Also see Thermal expansion Use Thermal expansivity	Exploration NT1 Geophysical exploration NT1 Geopressure exploration NT1 Geothermal exploration NT1 Mineral exploration NT1 Petroleum geology NT1 Petroleum exploration NT1 Resource potential RT Detection RT Exploration methods RT Exploratory wells RT Geophysical surveys Also see Exploration methods Also see Marine surveys Also see Petroleum Also see Petroleum industry Also see Resistivity surveys Also see Telluric surveys Also see Thermal exploration methods
Expenses Use Cost	
Experimental See Data See Document types See Experimental results See Field studies See Graphs See Measuring methods See Tables See Theoretical treatments	Exploration methods NT1 Aerial surveys NT1 Geochemical surveys NT1 Geological surveys NT1 Geophysical surveys RT Exploration RT Field studies RT Subsurface mapping
Experimental results RT Data RT Document types RT Field studies RT Graphs RT Laboratory studies RT Tables RT Theoretical treatments	Exploratory See Exploratory wells
Experimental studies Use Experimental results	Exploratory wells BT1 Wells RT Exploration
Experimental techniques Use Measuring methods	Explosions NT1 Chemical explosions NT1 Contained explosions NT1 Nuclear explosions NT1 Underground explosions RT Explosive stimulation RT Explosives RT Hazards RT Shock waves Also see Seismic events Also see Seismic s waves
Exploitation RT Development RT Energy consumption RT Engineering geology RT Heat extraction RT Leasing RT Natural gas industry RT Petroleum industry RT Reserves	Explosive See Explosive stimulation
	Explosive stimulation BT1 Well stimulation BT2 Reservoir engineering

Geopressured Geothermal Bibliography

RT Explosions	See Socio-economic factors
Explosives <ul style="list-style-type: none">NT1 Chemical explosivesNT1 Nuclear explosivesRT Explosions	Failures <ul style="list-style-type: none">NT1 Rock failuresRT AccidentsRT CorrosionRT Fracture propertiesRT HazardsRT ReliabilityRT SafetyRT Systems analysis
Extraction <ul style="list-style-type: none">Also see ExploitationAlso see HeatingUse Heat extraction	Fairfax Foster Sutter No. 2 Well <ul style="list-style-type: none">BT1 LouisianaBT2 USABT3 North America
Extrusive <ul style="list-style-type: none">See Extrusive rocks	Fairway <ul style="list-style-type: none">See Fairway analysis
Extrusive rocks <ul style="list-style-type: none">BT1 Igneous rocksBT2 RocksNT1 AndesiteNT1 BasaltNT1 Pyroclastic rocksNT1 Rhyolite	Fairway analysis
EPA <ul style="list-style-type: none">Use US EPA	Farm animals <ul style="list-style-type: none">Use Domestic animals
ERDA <ul style="list-style-type: none">Use US ERDA	Farm buildings <ul style="list-style-type: none">BT1 BuildingsRT Animal shelters
Fabrication <ul style="list-style-type: none">RT Contracts	Fatigue <ul style="list-style-type: none">BT1 Mechanical properties
Facies <ul style="list-style-type: none">RT Facies mapsRT Sand shale ratio	Fault <ul style="list-style-type: none">See Environmental effectsSee Fault blocksSee Fault systemsSee Fault zonesSee FaultsSee Rift valleysSee San Andreas FaultSee Waste disposal
Facies maps <ul style="list-style-type: none">BT1 Stratigraphic mapsBT2 MapsNT1 Net sand mapsNT1 Sand percent mapsRT Calstic ratioRT Calstic ratio mapsRT FaciesRT Sand trend maps	Fault activation <ul style="list-style-type: none">RT Environmental effectsRT Fault systemsRT FaultsRT Waste disposal
Facilities <ul style="list-style-type: none">See Aquifer testsSee Comparative evaluationsSee Field studiesSee Public lands	Fault blocks <ul style="list-style-type: none">BT1 Geologic structuresRT Fault systemsRT Faults
Factors <ul style="list-style-type: none">See Economics	

Fault seals

Fault systems

BT1 Geologic structures
RT Fault activation
RT Fault blocks
RT Faults
RT Rift valleys

Fault zones

BT1 Geologic structures
RT Faults
RT Rift valleys

Faulting

BT1 Rock deformation
BT2 Deformation
RT Faults

Faults

BT1 Geologic structures
NT1 Active faults
NT1 Growth faults
NT1 Lateral faults
NT1 Normal faults
NT1 Thrust faults
RT Diastrophism
RT Displacements
RT Fault activation
RT Fault blocks
RT Fault systems
RT Fault zones
RT Faulting
RT Fissures
RT Grabens
RT Rift valleys
RT Rock failures

Feasibility

See Comparative evaluations
See Economics
See Feasibility studies

Feasibility studies

RT Comparative evaluations
RT Design
RT Economics
RT Efficiency
RT Performance
RT Planning
RT Productivity
RT Technology assessment
RT Technology utilization

RT Testing

Features

See Geologic structures
See Mountains
See Submarine trenches

Federal buildings

BT1 Buildings
RT Military facilities
RT Office buildings
RT Public buildings

Federal lands

Use Public lands

Federal Republic of Germany

Use German Federal Republic

Feldspars

BT1 Silicate minerals
BT2 Minerals
NT1 Adularia
NT1 Microcline
NT1 Orthoclase
NT1 Plagioclases

Ffg

Use FFG

Ffg

Field

See Cerro Prieto Geothermal Field
See East Mesa KGRA
See Eugene Island Block 18 Field
See Exploration methods
See Field studies
See Geology
See Geysers Geothermal Field
See Hot water systems
See Hydrology
See Larderello Geothermal Field
See Recluse Field
See Rock mechanics
See Valles Caldera Geothermal Field
See Vapor dominated systems
See Wairakei Geothermal

Geopressured Geothermal Bibliography

Field	See Flammability
Field studies	Fire hazards
BT1 Document types	BT1 Hazards
RT Case histories	RT Flammability
RT Experimental results	RT Safety
RT Exploration methods	
RT Geological setting	
RT Geology	
RT Hydrology	
RT Laboratory studies	Fires
RT Rock mechanics	RT Flammability
RT Soil mechanics	
RT Test facilities	
Fields	Fish
See Coso Hot Springs KGRA	See Aquaculture
See East Mesa KGRA	
See Geopressured zones	
See Geothermal fields	
See Geothermal systems	
See Gravitation	Fish culture
See Klamath Falls KGRA	Use Aquaculture
See KGRAs	
See Marysville KGRA	
See Mono-long Valley KGRA	Fishes
See Natural gas	BT1 Aquatic organisms
See Natural gas fields	BT2 Animals
See Oil fields	RT Aquaculture
See Oil wells	RT Aquatic ecosystems
See Petroleum	RT Biology
See Raft River KGRA	RT Hydrosphere
See Reservoir rocks	RT Surface waters
Filtration	Fissured
BT1 Separation processes	See Fractured reservoirs
Financial incentives	Fissured formations
NT1 Subsidies	Use Fractured reservoirs
RT Economics	
RT Financing	
RT Profitability	Fissures
RT Taxes	BT1 Geologic structures
	RT Cracks
Financing	RT Faults
RT Budgets	RT Fractures
RT Capital	
RT Charges	
RT Cost	Fittings
RT Economics	See Nozzles
RT Financial incentives	See Pipes
RT Investment	
RT Subsidies	
Fire	Flame photometry
See Fire hazards	Use Emission spectroscopy
	Flammability
	BT1 Chemical properties
	RT Accidents
	RT Fire hazards
	RT Fires
	RT Safety
	RT Volatility
	Flash
	See Flashing
	Flash evaporation

Use Flashing

Flashed
See Flashed steam systems
See Geothermal energy conversion
See Thermodynamic cycles

Flashed steam systems
RT Flashing
RT Geothermal energy conversion
RT Thermodynamic cycles

Flashing
BT1 Evaporation
BT2 Phase transformations
RT Flashed steam systems
RT Steam
RT Thermal waters
RT Two phase flow

Flooding rate
Use Injection rates

Floods
RT Atmospheric precipitations
RT Hazards
RT Hydrology
RT Surface waters

Floor
See Earth crust
See Oceanic crust
See Plate tectonics
See Sea bed
See Sea floor spreading
See Seas

Florida
BT1 Gulf Coast
BT2 North America

RT Gulf Coast

Flow
See Circulating rate
See Diagrams
See Flashing
See Flow models
See Flow rate
See Fluid flow
See Geothermal energy conversion
See Heat flow
See Heat flow surveys
See Liquid flow
See Thermal conduction
See Thermodynamic cycles
See Two phase flow

Flow (fluid)
Use Fluid flow

Flow charts
Use Diagrams

Flow models
BT1 Mathematical models
BT2 Models
RT Fluid flow

Flow rate
BT1 Rates
NT1 Circulating rate
RT Flowmeters
RT Fluid flow
RT Hydraulics
RT Hydrodynamics
RT Pressure drop
RT Velocity

Flow string
RT Well casings
See Production tubing
See Tubing (well)
See Well tubing

Flowmeters
BT1 Measuring instruments
RT Flow rate
RT Fluid flow
RT Liquid flow

Geopressured Geothermal Bibliography

RT Nozzles	RT Hydrostatics
Fluid	Fluid pressure
See Chemical reactions	BT1 Physical properties
See Circulating rate	NT1 Mud weight
See Flow rate	RT Compressibility
See Fluid flow	RT Density
See Fluid mechanics	RT Fluid flow
See Fluid pressure	
See Fluid sampling	
See Fluid withdrawal	
See Gas turbine power	
generation	
See Geothermal fluids	
See Geothermal energy	
conversion	
See Ground water	
See Hydrothermal alteration	
See Hydrothermal systems	
See Interstitial water	
See Liquid wastes	
See Overdraft	
See Reservoir pressure	
See Rocks	
See Thermodynamic cycles	
See Waste disposal	
Use Fluids	
Fluid disposal	
Use Liquid wastes	
Use Waste disposal	
Fluid flow	
NT1 Liquid flow	NT1 Gases
NT1 Two phase flow	NT1 Geothermal fluids
RT Cavitation	NT1 Liquids
RT Flow models	NT1 Reservoir Fluids
RT Flow rate	NT1 Working fluids
RT Flowmeters	RT Fluid flow
RT Fluid properties	RT Fluid mechanics
RT Fluid mechanics	Also see Circulation
RT Fluids	Also see Crevice corrosion
RT Hydraulics	Also see Drilling
RT Hydrodynamics	Also see Drilling fluids
RT Jets	Also see Drills
RT Leakage	Also see Geothermal brines
RT Mass transfer	Also see Heat exchangers
RT Nozzles	Also see Hydrothermal
RT Pressure drop	systems
RT Rheology	Also see Salt water
RT Viscosity	Also see Thermal effluents
Fluid mechanics	Also see Thermodynamic
NT1 Hydrodynamics	cycles
RT Fluid flow	Also see Well drilling
RT Fluids	
RT Hydraulics	
Fluid pressure	
Fluid properties	
BT1 Physical properties	
NT1 Mud weight	
RT Compressibility	
RT Density	
RT Fluid flow	
Fluid sampling	
BT1 Sampling	
Fluid withdrawal	
RT Geothermal fluids	
RT Ground water	
RT Overdraft	
Fluidized bed heat exchangers	
BT1 Heat exchangers	
Fluids	
NT1 Gases	
NT1 Geothermal fluids	
NT1 Liquids	
NT1 Reservoir Fluids	
NT1 Working fluids	
RT Fluid flow	
RT Fluid mechanics	
Also see Circulation	
Also see Crevice corrosion	
Also see Drilling	
Also see Drilling fluids	
Also see Drills	
Also see Geothermal brines	
Also see Heat exchangers	
Also see Hydrothermal	
systems	
Also see Salt water	
Also see Thermal effluents	
Also see Thermodynamic	
cycles	
Also see Well drilling	
Fluorides	
BT1 Fluorine inorganic	
compounds	
BT1 Halides	
Fluorine	
BT1 Halogens	
BT2 Nonmetals	
Also see Fluorine inorganic	
compounds	
Fluorine inorganic compounds	

NT1 Fluorides

Fluorite

BT1 Halide minerals
BT2 Minerals

Flux

See Heat flow

Fold systems

BT1 Geologic structures
NT1 Anticlinoria
NT1 Synclinoria
RT Folds

Folds

BT1 Geologic structures
NT1 Anticlines
NT1 Monoclines
NT1 Overturned folds
NT1 Synclines
RT Fold systems
RT Salt domes

Food processing

Foraminifera

BT1 Protozoa
BT2 Microorganisms
BT2 Invertebrates
RT Biostratigraphy
RT Paleontology

Forecasting

RT Correlation
RT Economic policy
RT Evaluation
RT Management
RT Market

RT Possibilities

Formation

See Arkansas
See California
See Cretaceous Period
See Disposal formations
See Ffg
See Formation heat
See Formation thickness
See Fracturing
See Geopressure
See Interstitial water
See Jurassic Period
See Louisiana
See Mesozoic Era
See Mississippi
See Oklahoma
See Oligocene Epoch
See Permeability
See Plugging
See Reservoir pressure
See Subnormal formation pressure
See Texas
See Well completion

Formation damage

RT Disposal formations
RT Permeability
RT Plugging
RT Well completion

Formation fracturing

Use Fracturing

Formation heat

BT1 Reaction heat
BT2 Enthalpy

Formation plugging

Use Plugging

Formation pressure

Use Reservoir pressure

Formation testing

BT1 Testing
RT Bottom hole pressure
RT Bottom hole temperature
RT Gas production
RT Reserves
RT Reservoir engineering
RT Reservoir pressure
RT Sampling
RT Well logging

Geopressured Geothermal Bibliography

RT Well testing	Use Fractured reservoirs
Formation thickness BT1 Thickness BT2 Dimensions RT Isopach RT Overburden RT Stratigraphy	Fractured reservoirs BT1 Reservoir rocks BT2 Rocks
Formation water Use Interstitial water	Fractures RT Cracks RT Deformation RT Fissures RT Fracture properties
Formations See Disposal formations See Disposal wells See Fractured reservoirs See Waste disposal See Well design	Fracturing NT1 Hydraulic fracturing Also see Reservoir engineering
Fossil fuel power plants BT1 Thermal power plants BT2 Power plants	Fragmental rocks Use Clastic rocks
Fossil fuels BT1 Energy sources BT1 Fuels NT1 Coal NT1 Natural gas NT1 Petroleum RT Oil shale	Franciscan See California See Cretaceous Period See Jurassic Period See Mesozoic Era
Fouling RT Antifoulants RT Corrosion RT Demineralization RT Deposition RT Plugging RT Scaling RT Water pollution	Franciscan Formation RT California RT Cretaceous Period RT Jurassic Period RT Mesozoic Era
Fracture See Ffg See Fracture properties See Rock properties	Francium BT1 Alkali metals BT2 Metals
Fracture flow	Frasch sulfur process BT1 Recovery processes RT Sulfur
Fracture properties BT1 Mechanical properties RT Cracks RT Failures RT Fractures RT Rock properties	Free ground water Use Ground water
Fractured formations	Free water BT1 Subsurface waters RT Artesian water RT Capillary water RT Ground water RT Hygroscopic water RT Permeability RT Vadose water
	Freezing See Freezing potential See Melting point
	Freezing point

Use Melting point	BT1 Leasing
Freezing potential	Fuels
BT1 Physical properties	BT1 Fossil fuels
Fresh water	BT2 Coal
BT1 Water	BT2 Natural gas
RT Drinking water	BT2 Petroleum
RT Estuaries	BT1 Fuel gas
RT Lakes	BT1 Synthetic fuels
RT Limnology	NT1 Natural gas
RT Salt water	
RT Water reservoirs	
Friction	Fuels
	NT1 Fossil fuels
	NT1 Fuel gas
	Also see Fossil fuels
Frio	Fumaroles
See Louisiana	RT Hydrothermal systems
See Oligocene Epoch	RT Thermal waters
See Texas	
Frio Formation	Functional
NT1 Brazoria Fairway	See Comparative evaluations
RT Louisiana	See Functional models
RT Oligocene Epoch	See Simulation
RT Texas	
Frost	Functional models
BT1 Atmospheric precipitations	BT1 Models
BT2 Meteorology	NT1 Pilot plants
RT Permafrost	RT Comparative evaluations
RT Snow	RT Simulation
Fuel	G codes
See Fossil fuel power plants	BT1 Computer codes
See Fuel gas	
See Fuel leasing	
Fuel gas	Gabbro
BT1 Gases	BT1 Intrusive rocks
BT2 Fluids	BT2 Igneous rocks
BT1 Fuels	
BT1 Energy sources	
BT1 Natural gas	
RT Synthetic fuels	
Fuel gas	Gages
BT1 Energy sources	See Pressure gages
BT1 Fuels	
BT1 Gases	
BT2 Fluids	
NT1 Natural gas	
Fuel leasing	Galena
	BT1 Sulfide minerals
	BT2 Minerals
	Gallium
	BT1 Metals
	BT2 Elements
	Galveston
	See Galveston County
	Galveston County
	BT1 Texas

Geopressured Geothermal Bibliography

BT2 Gulf Coast	Use Dissolved gases
Gamma radiation BT1 Electromagnetic radiation RT Gamma ray logging RT Gamma spectroscopy	Gas caps RT Natural gas
Gamma ray logging BT1 Radioactivity logging BT2 Well logging RT Gamma radiation RT Gamma spectroscopy	Gas chromatography BT1 Chromatography BT2 Separation processes BT2 Chemical analysis methods RT Gas analysis RT Quantitative chemical analysis
Gamma ray surveys BT1 Radioactivity surveys BT2 Geophysical surveys RT Gamma spectroscopy	Gas condensates RT Consensates RT Gases
Gamma spectroscopy BT1 Measuring methods RT Gamma radiation RT Gamma ray logging RT Gamma ray surveys RT Spectrometric surveys	Gas ejectors RT Air RT Gaseous wastes RT Pumps RT Steam
Gamma-gamma logging BT1 Radioactivity logging BT2 Well logging	Gas fields Use Natural gas fields
Gas analysis BT1 Analysis BT1 Chemical analysis methods BT2 Measuring methods NT1 Air analysis RT Gas chromatography RT Gases RT Mud logging RT Qualitative chemical analysis RT Quantitative chemical analysis	Gas heating BT1 Heating
Gas cap gases	Gas production BT1 Production RT Formation testing RT Natural gas RT Natural gas wells RT Production testing RT Well testing
	Gas saturation BT1 Saturation RT Oil saturation RT Reservoir rocks

RT Water saturation

Gas turbine power generation

See Air
See Binary cycle power systems
See Dissolved gases
See Exploitation
See Fuel gas
See Gas analysis
See Gas chromatography
See Gas ejectors
See Gas heating
See Gas production
See Gas saturation
See Gas turbine power plants
See Gas turbines
See Gas turbine power generation
See Gaseous wastes
See Gases
See Geophysical surveys
See Hydrology
See Hydrothermal systems
See Interstitial water
See Natural gas
See Natural gas deposits
See Natural gas fields
See Natural gas industry
See Natural gas wells
See Natural occurrence
See Natural recharge
See Natural steam
See Overdraft
See Pumps
See Reservoir rocks
See Resources
See Salt domes
See Steam
See Stratigraphic traps
See Structural traps
See Traps
See Well completion

Gas turbine power generation

BT1 Power generation
RT Binary cycle power systems
RT Binary fluid systems
RT Brayton cycles
RT Gas turbines

Gas turbine power plants

BT1 Thermal power plants

BT2 Power plants

Gas turbines

BT1 Turbines
RT Gas turbine power generation

Gas wells

Use Natural gas wells

Gaseous

See Gaseous wastes
See Gases

Gaseous effluents

Use Gaseous wastes

Gaseous wastes

BT1 Wastes
RT Air pollution
RT Chemical effluents
RT Gas ejectors
RT Gases
RT Odor
RT Stack disposal
RT Waste disposal

Gases

BT1 Fluids
NT1 Air
NT1 Dissolved gases
NT1 Fuel gas
NT1 Noncondensable gases
NT1 Vapors
RT Gas analysis
RT Gas condensates
RT Gaseous wastes
Also see Dissolved solids
Also see Rare gases

Gases in solution

Use Dissolved gases

Geanticlines

BT1 Anticlines
BT2 Folds
RT Geosynclines

Geopressured Geothermal Bibliography

RT Structural geology See Geography

Generation
See Binary cycle power systems
See Brayton cycle
See Combined cycle power generation
See Gas turbine power generation
See Geothermal energy conversion
See Power generation
See Steam turbine power generation
See Thermodynamic cycles

Generators
Also see Heat exchangers
Also see Heat transfer
Also see Power generation
Also see Steam
Also see Vapors
Use Steam generators
Use Vapor generators

Genesis
Use Origin

Geo brines
Use Geothermal brines

Geochemical
See Geochemical surveys

Geochemical surveys
BT1 Exploration methods
RT Geothermal exploration
RT Marine surveys

Geochemistry
BT1 Geology
BT1 Chemistry
RT Geologic control
RT Geothermometers
RT Geothermometry

Geochronology
BT1 Geology
RT Geologic times
RT Micropaleontology
RT Paleontology

Geographical
See Geographical distribution

Geographical distribution
BT1 Distribution
RT Geography

Geography
RT Areal geology
RT Earth planet
RT Geographical distribution
RT Oceanography
RT Topography

Geohydrology
Use Hydrogeology

Geoisotherm
Use Isotherm

Geologic
See Compaction
See Depositional environment
See Engineering geology
See Faults
See Fissures
See Geochronology
See Geologic control
See Geologic cross sections
See Geologic deposits
See Geologic processes
See Geologic provinces
See Geologic structures
See Geologic times
See Geothermometers
See Geothermometry
See Sediment deposits
See Strata
See Traps

Geologic age determination
Use Geochronology

Geologic ages
Use Geologic times

Geologic compaction
Use Compaction

Geologic control
BT1 Control
RT Geochemistry
RT Geology

Geologic cross sections

RT Geologic structures	Use Strata
Geologic deposits NT1 Alluvium NT1 Natural gas deposits NT1 Petroleum deposits NT1 Salt deposits RT Availability RT Deposition RT Mineral resources RT Sediment deposits RT Sediments	Geologic structures NT1 Basins NT1 Fault blocks NT1 Fault systems NT1 Fault zones NT1 Faults NT1 Fissures NT1 Fold systems NT1 Folds NT1 Grabens NT1 Permeability barriers NT1 Rift valleys NT1 Strata NT1 Traps RT Geologic cross sections RT Geologic models RT Geological setting RT Sedimentary structures RT Stratigraphy
Geologic engineering Use Engineering geology	
Geologic environment Use Depositional environment	
Geologic faults Use Faults	
Geologic fissures Use Fissures	Geologic thermometers Use Geothermometers
Geologic models RT Geologic structures	Geologic times NT1 Cenozoic Era NT1 Mesozoic Era NT1 Paleozoic Era NT1 Precambrian Eras RT Geochronology
Geologic processes NT1 Diastrophism NT1 Metamorphism NT1 Sedimentation NT1 Volcanism	Geologic traps Use Traps
Geologic provinces NT1 Anadarko Basin NT1 Delaware Basin NT1 Uinta Basin	Geological See Engineering geology See Field studies See Geologic deposits See Geologic structures See Geological surveys See Hydrology See Minerals See Rocks
Geologic strata	Geological engineering Use Engineering geology
	Geological setting RT Field studies RT Geologic structures RT Geological surveys RT Hydrology RT Minerals

Geopressured Geothermal Bibliography

RT Rocks

Geological surveys

BT1 Exploration methods
RT Geological setting
RT Geothermal exploration

Geology

NT1 Areal geology
NT1 Economic geology
NT1 Engineering geology
NT1 Environmental geology
NT1 Geochemistry
NT1 Geochronology
NT1 Geomorphology
NT1 Hydrogeology
NT1 Marine geology
NT1 Petroleum Geology
NT1 Petrology
NT1 Sedimentology
NT1 Tectonics
RT Earth movements
RT Field studies
RT Geologic control
RT Geophysics
RT Paleontology
RT Seismology
RT Stratigraphy
Also see Economics
Also see Engineering geology
Also see Exploitation
Also see Geanticlines
Also see Mineral production
Also see Structural traps

Geomorphology

BT1 Geology
RT Marine geology

Geophysical

See Geophysical surveys
See Well logging

Geophysical exploration

BT1 Exploration
NT1 Electrical exploration
NT1 Geothermal exploration
See Geophysical mapping

See Geophysical prospecting

Geophysical surveys

BT1 Exploration methods
NT1 Electrical surveys
NT1 Gravity surveys
NT1 Infrared surveys
NT1 Magnetic surveys
NT1 Radioactivity surveys
NT1 Radiometric surveys
NT1 Seismic surveys
NT1 Spectrometric surveys
NT1 Thermal exploration
methods
RT Exploration
RT Geothermal exploration
RT Marine surveys
RT Natural gas deposits
RT Petroleum deposits
RT Well logging

Geophysics

RT Earth planet
RT Geology
RT Paleomagnetism

Geopressure

RT Geopressured systems
RT Paleopressure
Also see Availability
Also see Geopressure
exploration
Also see Geopressure
gradients
Also see Geopressure
resources
Also see Geothermal power
plants

Geopressure anomalies

RT Geopressure systems

Geopressure exploration

BT1 Exploration

Geopressure gradients

BT1 Pressure gradients
pressure power plants
RT Geothermal power plants

Geopressure resources

BT1 Geothermal resources

RT Availability

Geopressured

See Geopressured reservoirs
See Geopressured systems
See Geopressured wells
See Geopressured zones
See Reservoir properties

Geopressured areas

Use Geopressured zones

Geopressured fields

Use Geopressured zones

Geopressured regions

Use Geopressured zones

Geopressured reservoirs

BT1 Geothermal reservoirs
BT2 Subsurface reservoirs
RT Aquifers
RT Reservoir engineering
RT Reservoir pressure
RT Reservoir properties
RT Reservoir temperature

Geopressured systems

BT1 Geothermal systems
RT Geopressure anomalies
RT Geopressure
RT Geopressured zones

Geopressured wells

BT1 Geothermal wells
BT2 Wells
RT Well spacing
RT Wellheads

Geopressured zones

RT Geopressured systems
RT Well spacing

Geostatic

See Geostatic pressure

Geostatic pressure

RT Overburden

Geosynclines

BT1 Synclines
BT2 Folds
RT Geanticlines
RT Synclinoria

Geotectonics

Use Tectonics

Geothermal

See Cerro Prieto Geothermal Field
See Coso Hot Springs KGRA
See Crevice corrosion
See Direct energy utilization
See Directional drilling
See East Mesa KGRA
See Geothermal brines
See Geothermal drilling
See Geothermal energy
See Geothermal exploration
See Geothermal fields
See Geothermal fluids
See Geothermal gradients
See Geothermal gradient surveys
See Geothermal heating
See Geothermal industry
See Geothermal power plants
See Geothermal reservoirs
See Geothermal resources
See Geothermal space heating
See Geothermal systems
See Geothermal wells
See Geothermal energy conversion
See Geysers Geothermal Field
See Heat flow
See Hot water systems
See Hydrothermal systems
See Klamath Falls KGRA
See KGRAs
See Larderello Geothermal Field
See Marysville KGRA
See Mono-long Valley KGRA
See Natural steam
See Raft River KGRA
See Reserves
See Reservoir engineering
See Reservoir pressure
See Reservoir properties
See Reservoir temperature
See Rock mechanics
See Telluric surveys
See Thermal effluents
See Thermal waters
See Valles Caldera Geothermal Field
See Vapor dominated systems
See Wairakei Geothermal Field

RT Steam heating

Geothermal industry
BT1 Industry
RT Geothermal energy

Geothermal power plants
BT1 Thermal power plants
BT2 Power plants
RT Geopressure power plants
RT Geothermal energy conversion

Geothermal refrigeration
RT Direct energy utilization
RT Geothermal space heating

Geothermal regions
Use Geothermal fields

Geothermal reservoirs
BT1 Subsurface reservoirs
NT1 Geopressured reservoirs
RT Aquifers
RT Reservoir engineering
RT Reservoir pressure
RT Reservoir properties
RT Reservoir temperature

Geothermal resources
BT1 Resources
NT1 Geopressure resources
RT Availability
RT Natural steam
RT Reserves
RT Resource depletion
RT Rock mechanics
Also see KGRAs

Geothermal space heating
BT1 Space heating
BT2 Heating
BT1 Geothermal heating
BT2 Heating
RT Direct energy utilization
RT Geothermal refrigeration

Geothermal steam
Use Natural steam

Geothermal systems
NT1 Geopressured systems
NT1 Hot dry rock systems
NT1 Hydrothermal systems
NT1 Magma systems

RT Geothermal fields

Geothermal wells
BT1 Wells
NT1 Geopressured wells
RT Directional drilling
RT Injection wells
RT Well drilling
RT Well spacing
RT Wellheads

Geothermometers
RT Geochemistry
RT Geothermometry
RT Measuring instruments
RT Temperature measurement
RT Thermometers

Geothermometry
BT1 Measuring methods
RT Geochemistry
RT Geothermometers
RT Temperature measurement

German
See German Democratic Republic
See German Federal Republic

German Democratic Republic
BT1 Europe
BT2 Continents

German Federal Republic
BT1 Europe
BT2 Continents

Germanium
BT1 Metals
BT2 Elements

Germany
Use German Democratic Republic
Use German Federal Republic

Geysers
BT1 Hot springs
BT2 Thermal springs
RT Ground water
RT Hydrothermal systems
RT Thermal waters
Also see Geysers Geothermal Field
Also see Vapor dominated

Geopressedured Geothermal Bibliography

systems	surveys
Geysers Geothermal Field BT1 Geothermal fields BT1 California BT2 Gulf Coast RT Vapor dominated systems	Gradients See Density See Differential pressure See Geopressure gradients See Geothermal gradients See Heat flow See Isopiestic measurement See Isotherm See Pressure drop See Pressure gradients See Pressure measurement See Temperature distribution See Temperature gradients
Gibbsite BT1 Oxide minerals BT2 Minerals	
Global See Global aspects	Granite BT1 Intrusive rocks BT2 Igneous rocks
Global aspects	Granites Use Granite
Gold BT1 Transition elements BT2 Metals	Granodiorite BT1 Intrusive rocks BT2 Igneous rocks
Government See Government policies See Local government See National government See Regulations See State government	Graphic See Graphic methods
Government See Regulations	Graphic methods
Government policies NT1 Energy policy NT1 Environmental policy RT Economic policy RT Institutional aspects RT Legal aspects RT Legislation RT Local government RT National government RT Pollution law RT State government	Graphics See Graphic methods
Grabens BT1 Geologic structures RT Faults RT Rift valleys	Graphs BT1 Information NT1 Production decline curve RT Data RT Experimental results RT Tables
Gradient See Ffg See Geothermal exploration See Geothermal gradient	Gravel See Gravel packing
	Gravel packing RT Sand control RT Waste disposal
	Gravimetry BT1 Measuring methods RT Gravitation RT Gravity surveys
	Gravitation RT Gravimetry RT Gravitation fields

RT Gravity surveys	RT Direct energy utilization
Gravitation fields RT Gravitation	Ground See Aquifers See Artesian water See Compaction See Consolidation See Dewatering See Fluid withdrawal See Free water See Ground motion See Ground subsidence See Ground water See Ground water recharge See Overdraft See Seismic events See Underground disposal See Water See Water management See Water table
Gravitational See Free water	
Gravitational water Use Free water	
Gravity See Gravimetry See Gravitation See Gravity logging See Gravity surveys See Normal faults	Ground disposal Use Underground disposal
Gravity faults Use Normal faults	Ground motion RT Earth movements RT Seismic events RT Shock waves
Gravity logging BT1 Well logging RT Gravity surveys	Ground subsidence BT1 Earth movements RT Compaction RT Consolidation RT Injection wells RT Rock mechanics
Gravity surveys BT1 Geophysical surveys BT2 Exploration methods RT Geothermal exploration RT Gravimetry RT Gravitation RT Gravity logging	Ground water BT1 Subsurface waters NT1 Interstitial water NT1 Meteoric water RT Aquifers RT Artesian basins RT Artesian water RT Dewatering RT Drawdown RT Fluid withdrawal RT Free water RT Geysers RT Ground water recharge RT Hydraulic conductivity RT Hydrology RT Liquid wastes RT Overdraft RT Water RT Water management RT Water resources RT Water springs
Great Valley BT1 California BT2 USA BT3 North America	
Greene County BT1 Mississippi BT2 Gulf Coast	
Greenhouses BT1 Buildings	

Geopressured Geothermal Bibliography

RT Water table	RT Gulf Coast
Ground water depletion Use Overdraft	Gulf Coast BT1 North America NT1 Florida NT1 Louisiana NT1 Mississippi NT1 Texas RT Florida RT Gulf of Mexico RT Louisiana RT Mississippi RT Tabasco RT Texas RT USA
Ground water level Use Water table	
Ground water recharge NT1 Artificial recharge NT1 Natural recharge RT Aquifers RT Drawdown RT Ground water RT Overdraft RT Water entry RT Water table	Gulf Coast Basin Use Gulf Coast
Ground water reservoirs Use Aquifers	Gulf Coastal Plain Use Gulf Coast
Ground water withdrawal Use Fluid withdrawal	
Growth See Growth faults	Gypsum BT1 Sulfate minerals BT2 Minerals RT Anhydrite RT Calcium sulfates
Growth faults BT1 Faults BT2 Geologic structures RT Deposition	Habitats See Aquatic ecosystems
Guidelines Use Recommendations	Halide See Halide minerals See Halides
Guides See Recommendations See Regulations	Halide minerals BT1 Minerals NT1 Fluorite NT1 Halite RT Halides
Guinea See Australia See New Guinea	Halides NT1 Bromides NT1 Chlorides NT1 Fluorides NT1 Iodides RT Halide minerals
Gulf See Arabian Sea See Gulf Coast See Gulf of Mexico	Halite BT1 Halide minerals BT2 Minerals RT Salts
Gulf of Mexico BT1 Caribbean Sea BT2 Atlantic Ocean	

RT Sodium chlorides

Halogens
BT1 Nonmetals
BT2 Elements
NT1 Astatine
NT1 Bromine
NT1 Chlorine
NT1 Fluorine
NT1 Iodine

Halokinesis
Use Salt tectonics

Handling
See Waste management

Handling (wastes)
Use Waste management

Harris County
BT1 Texas
BT2 Gulf Coast

Harris Fairway
BT1 Texas
BT2 USA
BT3 North America

Hawaii
BT1 Islands
BT1 USA
BT2 North America

Hazards
NT1 Fire hazards
NT1 Health hazards
RT Accidents
RT Explosions
RT Failures
RT Floods
RT Hurricanes
RT Insurance
RT Liabilities
RT Pressure release
RT Reliability
RT Safety
RT Storms

Also see Flammability

Head
See Hydrostatic pressure
See Pressure buildup
See Pressure decline
See Well head pressure
See Well head temperature
See Wells

Head buildup
Use Pressure buildup

Head drawdown
Use Pressure decline

Heads
See Wellheads

Health
See Health hazards
See Human populations
See Public health

Health hazards
BT1 Hazards
RT Safety

Hearings
RT Arbitration
RT Courts
RT Lawsuits
RT Legislation

Geopressured Geothermal Bibliography

RT Meetings	Use Waste heat
Heat	Heat effects
BT1 Energy	Use Temperature effects
NT1 Process heat	
RT Energy recovery	
RT Temperature effects	
Also see Crevice corrosion	
Also see Direct energy utilization	
Also see Energy balance	
Also see Enthalpy	
Also see Exploitation	
Also see Formation heat	
Also see Heat budget	
Also see Heat exchangers	
Also see Heat extraction	
Also see Heat flow	
Also see Heat flow surveys	
Also see Heat sources	
Also see Heat storage	
Also see Heat transfer	
Also see Heating	
Also see Industrial heating	
Also see Lakes	
Also see Reaction heat	
Also see Specific heat	
Also see Steam condensers	
Also see Temperature effects	
Also see Thermal conduction	
Also see Thermal conductivity	
Also see Thermal equilibrium	
Also see Thermal insulation	
Also see Two phase flow	
Also see Waste heat	
Heat balance	Heat extraction
RT Energy balance	RT Exploitation
Heat budget	RT Heating
RT Lakes	
RT Limnology	
RT Specific heat	
Heat capacity	Heat flow
Use Specific heat	RT Geothermal gradients
Heat content	RT Heat sources
Use Enthalpy	RT Heat transfer
Heat discharge	RT Thermal conduction
Use Heat flow	RT Thermal conductivity
	Heat flow surveys
	BT1 Thermal exploration
	methods
	BT2 Geophysical surveys
	Heat flux
	Use Heat flow
	Heat insulation
	Use Thermal insulation
	Heat of formation
	Use Formation heat
	Heat sources
	BT1 Energy sources
	RT Heat flow
	Heat storage
	BT1 Energy storage
	BT2 Storage

RT Stored energy compounds

Heat transfer
BT1 Energy transfer
NT1 Convection
NT1 Thermal conduction
RT Boiling
RT Cooling
RT Heat exchangers
RT Heat flow
RT Steam condensers
RT Steam generators
RT Thermal conductivity
RT Thermal diffusion
RT Thermal equilibrium
RT Thermal insulation
RT Two phase flow

Heat transmission
Use Heat transfer

Heated
See Thermal effluents

Heated effluents
Use Thermal effluents

Heaters
RT Heating

Heating
NT1 District heating
NT1 Electric heating
NT1 Gas heating
NT1 Geothermal heating
NT1 Hot water heating
NT1 Industrial heating
NT1 Space heating
NT1 Steam heating
NT1 Superheating
RT Boiling
RT Heat extraction
RT Heaters
RT Radiators
Also see Direct energy utilization
Also see Geothermal space heating

Helium
BT1 Rare gases
BT2 Nonmetals

Hematite
BT1 Oxide minerals
BT2 Minerals
BT1 Iron oxides
BT2 Iron inorganic

Heterogenous
See Heterogenous effects

Heterogenous effects
BT1 Effects

Hexane
BT1 Alkanes
BT2 Hydrocarbons

Hidalgo County
BT1 Texas
BT2 Gulf Coast

High concentration
RT Concentration dependence

High pressure
RT Pressure dependence

High temperature
RT Temperature dependence

Histories
See Case histories
See Field studies

Hole diameter
BT1 Diameter
RT Caliper logging
RT Wells

Hole size
Use Hole diameter

Holes
See Boreholes

Homes
Also see Mobile homes
Use Houses

Hot
See Coso Hot Springs KGRA
See Hot dry rock systems
See Hot springs
See Hot water
See Hot water heating
See Hot water systems
See Hydrothermal systems
See Texas
See Thermal waters

Hot dry rock systems
BT1 Geothermal systems

Geopressured Geothermal Bibliography

RT Injection wells	RT Socio-economic factors
Hot dry rocks See Hot dry rock systems	Hungary BT1 Europe BT2 Continents NT1 Carpathian Basin
Hot rocks See Hot dry rock systems	Hurricanes BT1 Storms RT Hazards RT Weather RT Wind
Hot springs BT1 Thermal springs BT2 Water springs NT1 Geysers RT Hydrothermal systems RT Mineral springs RT Thermal waters Also see Coso Hot Springs KGRA	Hydrates RT Water
Hot water	Hydraulic See Hydraulic fracturing See Reservoir engineering
Hot water heating BT1 Heating RT District heating RT Space heating	Hydraulic conductivity BT1 Hydrologic properties BT1 Physical properties RT Ground water RT Permeability RT Porous media
Hot water systems BT1 Hydrothermal systems BT2 Geothermal systems RT Cerro Prieto Geothermal Field RT Wairakei Geothermal Field	Hydraulic fracturing BT1 Fracturing RT Reservoir engineering RT Well stimulation
Houses BT1 Residential buildings BT2 Buildings RT Mobile homes	Hydraulics RT Flow rate RT Fluid flow RT Fluid mechanics RT Hydrodynamics RT Hydrostatic pressure
Hudspeth County BT1 Texas BT2 Gulf Coast	Hydroblasting Use Jets
Human See Demography See Human populations See Sociology See Socio-economic factors	Hydrocarbons BT1 Organic compounds NT1 Alkanes RT Halocarbons RT Petroleum
Human populations BT1 Populations NT1 Rural populations NT1 Urban populations RT Demography RT Public health RT Regional analysis RT Sociology	Hydrodynamic See Hydrodynamic pressure
	Hydrodynamic pressure

BT1 Hydropressure

Hydrodynamics

BT1 Fluid mechanics
RT Flow rate
RT Fluid flow
RT Hydraulics
RT Liquid flow
RT Working fluids

Hydroelectric

See Hydroelectric power plants

Hydroelectric power plants

BT1 Power plants

Hydrogen

BT1 Nonmetals
BT2 Elements
Also see Air pollution
Also see Dissolved gases
Also see Environmental effects
Also see Hydrogen sulfides
Also see Hydrogen inorganic compounds
Also see Ph value

Hydrogen inorganic compounds

NT1 Ammonia
NT1 Hydrogen sulfides

Hydrogen ion concentration

Use Ph value

Hydrogen sulfides

BT1 Hydrogen inorganic compounds
BT1 Sulfides
BT2 Sulfur inorganic compounds
RT Air pollution
RT Dissolved gases
RT Environmental effects

Hydrogeology

BT1 Geology
BT1 Hydrology
RT Aquifers
RT Hydraulic conductivity
RT Marine geology

RT Subsurface waters

Hydrologic properties

NT1 Diffusivity
NT1 Hydraulic conductivity
NT1 Permeability
NT1 Transmissivity
RT Physical properties
RT Rock properties

Hydrology

NT1 Hydrogeology
RT Drainage systems
RT Field studies
RT Floods
RT Geological setting
RT Ground water
RT Lakes
RT Natural recharge
RT Surface waters

Hydrolysis

BT1 Decomposition
BT2 Chemical reactions
RT Aqueous solutions

Hydropressure

NT1 Artesian pressure
NT1 Hydrodynamic pressure
NT1 Hydrostatic pressure

Hydrosphere

RT Aquatic ecosystems
RT Atmospheric precipitations
RT Environment
RT Fishes
RT Limnology
RT Surface waters
RT Water

Hydrostatic

See Hydrostatic pressure

Hydrostatic head

Use Hydrostatic pressure

Hydrostatic pressure

BT1 Hydropressure
BT1 Static pressure
NT1 Pore pressure
RT Hydraulics
RT Hydrostatics
RT Reservoir pressure

Hydrostatics

RT Fluid mechanics

Geopressured Geothermal Bibliography

RT Hydrostatic pressure

Hydrothermal
See Burial
See Geothermal reservoirs
See Hot water systems
See Hydrothermal alteration
See Hydrothermal systems
See Magma
See Volcanism

Hydrothermal alteration
RT Burial
RT Hydrothermal stage
RT Rock fluid interactions

Hydrothermal convective systems
Use Hydrothermal systems

Hydrothermal reservoirs
Use Geothermal reservoirs

Hydrothermal stage
RT Hydrothermal alteration
RT Hydrothermal systems
RT Magma
RT Volcanism

Hydrothermal systems
BT1 Geothermal systems
NT1 Hot water systems
NT1 Vapor dominated systems
RT Fumaroles
RT Geothermal fluids
RT Geysers
RT Hot springs
RT Hydrothermal stage
RT Natural steam
RT Rock fluid interactions
RT Thermal springs
RT Thermal waters

Hydroxide
See Ph value

Hydroxide ion concentration
Use Ph value

Hygroscopic water
RT Free water

Iberia Parish
BT1 Louisiana
BT2 Gulf Coast

NT1 Weeks Island

Iceland
BT1 Europe
BT2 Continents

Idaho
BT1 USA
BT2 North America
NT1 Raft River KGRA
RT Yellowstone National Park

Igneous
See Igneous intrusions
See Igneous rocks
See Intrusive rocks
See Petrology

Igneous intrusions
NT1 Batholiths
NT1 Concordant intrusions
NT1 Discordant intrusions
NT1 Stock intrusions
RT Intrusive rocks

Igneous rocks
BT1 Rocks
NT1 Aphanitic rocks
NT1 Extrusive rocks
NT1 Intrusive rocks
NT1 Magma
NT1 Phaneritic rocks
NT1 Porphyritic rocks
RT Petrology

Illite
BT1 Clay minerals
BT2 Silicate minerals

Ilmenite
BT1 Iron oxides
BT2 Iron inorganic compounds

Impact
See Economics
See Environmental impact statements
See Inflation
See Sociology
See Socio-economic factors

Imperial
See Geothermal fields
See Imperial Valley

See Rift valleys

Imperial County
BT1 California
BT2 USA
BT3 North America

Imperial Valley
BT1 California
BT2 Gulf Coast
NT1 East Mesa KGRA
NT1 Salton Sea
RT Geothermal fields
RT Rift valleys

Impermeable
See Hot dry rock systems

Impermeable dry rock
Use Hot dry rock systems

Implementation
RT Legislation
RT Regulations

Income
RT Charges
RT Economics
RT Profitability
RT Profits
RT Royalties

Indexes
BT1 Document types

India
BT1 Asia
BT2 Continents

Indian Ocean
BT1 Seas
BT2 Surface waters
NT1 Arabian Sea

Indies
See West Indies

Indium
BT1 Metals
BT2 Elements

Induction

See Induction logging

Induction logging
BT1 Electrical logging
BT2 Well logging
RT Magnetic surveys
RT Resistivity logging
RT Resistivity surveys
RT Sp logging

Industrial
See Direct energy utilization
See Industrial buildings
See Industrial heating
See Industrial plants

Industrial buildings
BT1 Buildings

Industrial heating
BT1 Heating
RT Direct energy utilization
RT Process heat

Industrial plants
NT1 Petrochemical plants
RT Demonstration plants
RT Industry
RT Pilot plants

Industry
NT1 Electric power industry
NT1 Geothermal industry
NT1 Natural gas industry
NT1 Paper industry
NT1 Petroleum industry
RT Anthropogenic occurrence
RT By-products
RT Industrial plants
RT Ownership
RT Technology assessment
RT Technology utilization
RT Zoning
Also see Electric power
Also see Exploitation
Also see Geothermal energy
Also see Natural gas
Also see Petroleum
Also see Power plants

Inert
See Rare gases

Inert gases

RT Injection wells

Injection wells

BT1 Wells
NT1 Disposal wells
RT Artificial recharge
RT Geothermal wells
RT Ground subsidence
RT Hot dry rock systems
RT Injection pressure
RT Injection pumps
RT Injection rates
RT Observation wells
RT Underground disposal
RT Waste disposal

Injectivity

RT Geothermal brines
RT Injection
RT Injectability
RT Waste injection

Injuries

RT Safety

Inorganic

See Aluminum inorganic compounds
See Barium inorganic compounds
See Boron inorganic compounds
See Bromine inorganic compounds
See Calcium inorganic compounds
See Carbon inorganic compounds
See Chlorine inorganic compounds
See Fluorine inorganic compounds
See Hydrogen inorganic compounds
See Inorganic compounds
See Iodine inorganic compounds
See Iron inorganic compounds
See Magnesium inorganic compounds
See Nitrogen inorganic compounds
See Oxygen inorganic compounds
See Silver inorganic compounds
See Sodium inorganic compounds
See Strontium inorganic compounds
See Sulfur inorganic compounds

Inorganic compounds

Input

See Injection wells

Input wells

Use Injection wells

Inspection

RT Legal aspects
RT Licensing
RT Materials testing
RT Performance testing
RT Recommendations
RT Safeguards
RT Sampling

Geopressured Geothermal Bibliography

- RT Specifications
- Installation
 - RT Construction
- Institutional
 - See Government policies
 - See Management
- Institutional aspects
 - RT Government policies
 - RT Management
- Instruments
 - See Equipment
 - See Measuring instruments
 - See Measuring methods
 - See Well logging
- Instruments (measuring)
 - Use Measuring instruments
- Insulation
 - Also see Thermal conduction
 - Use Thermal insulation
- Insurance
 - RT Accidents
 - RT Hazards
 - RT Legal aspects
 - RT Liabilities
- Interactions
 - See Chemical reactions
 - See Hydrothermal alteration
 - See Hydrothermal systems
 - See Rocks
- Interference
 - See Aquifer tests
 - See Observation wells
 - See Reservoir properties
 - See Subsurface reservoirs
 - See Well interference
 - See Wells
- Interference tests
 - Use Aquifer tests
- Interior
 - See Earth core
- See Earth mantle
- Interstitial
 - See Interstitial water
 - See Oil wells
 - See Reservoir pressure
 - See Reservoir rocks
 - See Sandstone
 - See Solutions
- Interstitial fluid
 - Use Interstitial water
- Interstitial fluid pressure
 - Use Reservoir pressure
- Interstitial water
 - BT1 Ground water
 - BT2 Subsurface waters
 - NT1 Connate water
 - RT Natural gas wells
 - RT Oil wells
 - RT Pore pressure
 - RT Reservoir rocks
 - RT Sandstone
 - RT Solutions
- Intrusions
 - See Batholiths
 - See Concordant intrusions
 - See Dike intrusions
 - See Discordant intrusions
 - See Igneous intrusions
 - See Intrusive rocks
 - See Sill intrusions
 - See Stock intrusions
- Intrusions (igneous)
 - Use Igneous intrusions
- Intrusive
 - See Intrusive rocks
- Intrusive rocks
 - BT1 Igneous rocks
 - BT2 Rocks
 - NT1 Anorthosite
 - NT1 Diabase
 - NT1 Gabbro
 - NT1 Granite
 - NT1 Granodiorite
 - NT1 Pegmatite
 - RT Igneous intrusions
 - RT Plutonic rocks
- Invertebrates
 - BT1 Animals

NT1 Protozoa

Inverted
See Overturned folds

Inverted folds
Use Overturned folds

Investment
RT Capital
RT Cost
RT Economics
RT Financing
RT Ownership
RT Profitability
RT Royalties
Also see Profits

Iodides
BT1 Iodine inorganic compounds
BT1 Halides

Iodine
BT1 Halogens
BT2 Nonmetals
Also see Iodine inorganic compounds

Iodine inorganic compounds
NT1 Iodides

Ion
See Ion exchange
See Ph value

Ion exchange
BT1 Separation processes
RT Precipitation

Ions
NT1 Anions
NT1 Cations
RT Electrolysis

Iron
BT1 Transition elements
BT2 Metals
Also see Iron inorganic compounds
Also see Iron oxides
Also see Pyrite

Iron inorganic compounds

NT1 Iron oxides

Iron oxides
BT1 Iron inorganic compounds
BT1 Oxides
BT2 Oxygen inorganic compounds
NT1 Hematite
NT1 Ilmenite

Iron pyrites
Use Pyrite

Irrigation
RT Agriculture
RT Cultivation techniques
RT Water management
RT Water quality

Island arcs

Islands
NT1 Borneo
NT1 Hawaii

Isobutane
Use 2-methylpropane

Isochore
See Isochore maps

Isochore maps
BT1 Stratigraphic maps
BT2 Maps
RT Isopach maps

Isogeotherm
Use Isotherm

Isopach
RT Formation thickness
RT Isopach maps
Also see Isochore maps

Isopach maps
BT1 Stratigraphic maps
BT2 Maps
RT Isochore maps
RT Isopach

Isopiestic

Geopressured Geothermal Bibliography

See Isopiestic measurement	Field
Isopiestic measurement BT1 Measuring methods RT Pressure control RT Pressure dependence RT Pressure drop RT Pressure gradients RT Pressure measurement RT Pressure release	Japan BT1 Asia BT2 Continents NT1 Nagaoka Plain
Isoporosity See Isoporosity maps	Jeff Davis County BT1 Texas BT2 Gulf Coast
Isoporosity maps BT1 Maps BT2 Document types RT Porosity	Jefferson Davis Parish BT1 Louisiana BT2 Gulf Coast
Isopressure See Isopressure maps	Jemez See Geothermal fields See Jemez Mountains
Isopressure maps BT1 Maps BT2 Document types	Jemez Mountains BT1 Mountains BT1 New Mexico BT2 USA BT3 North America RT Geothermal fields
Isosaline See Isosaline maps	Jets RT Boreholes RT Fluid flow RT Nozzles RT Water
Isosaline maps BT1 Maps BT2 Document types	Jurassic See Jurassic Period
Isostasy RT Earth crust	Jurassic Period BT1 Mesozoic Era BT2 Geologic times RT Franciscan Formation
Isotherm RT Isothermal maps RT Temperature distribution RT Temperature gradients RT Temperature measurement	Juvenile water BT1 Subsurface waters
Isothermal See Isothermal maps	Kaolin BT1 Clay minerals BT2 Silicate minerals NT1 Dickite NT1 Kaolinite
Isothermal maps BT1 Maps BT2 Document types RT Isotherm	Kaolinite BT1 Kaolin BT2 Clay minerals
Isotropy RT Anisotropy RT Distribution	Kenedy County BT1 Texas
Italy BT1 Europe BT2 Continents NT1 Larderello Geothermal	

BT2 Gulf Coast

Kenedy Fairway
BT1 Texas
BT2 USA
BT3 North America

Kerogen
RT Oil shale

Kettleman Hills
BT1 California
BT2 USA
BT3 North America

Kg/sq
See Elevated pressure
See High pressure
See Low pressure
See Moderate pressure
See Standard pressure

Kicks
RT Blowouts

Kinetic
See Kinetic energy

Kinetic energy
BT1 Energy
RT Energy recovery
RT Potential energy
RT Velocity

Klamath Falls
See Klamath Falls KGRA

Klamath Falls KGRA
BT1 KGRAs
BT1 Oregon
BT2 Gulf Coast
RT Geothermal fields

Kleberg County
BT1 Texas
BT2 Gulf Coast

Known geothermal resource areas
Use KGRAs

Krypton
BT1 Rare gases

BT2 Nonmetals

KGRA
See Coso Hot Springs KGRA
See East Mesa KGRA
See Klamath Falls KGRA
See Marysville KGRA
See Mono-long Valley KGRA
See Raft River KGRA

KGRAs
NT1 Coso Hot Springs KGRA
NT1 East Mesa KGRA
NT1 Klamath Falls KGRA
NT1 Marysville KGRA
NT1 Mono-long Valley KGRA
NT1 Raft River KGRA
RT Geothermal energy
RT Geothermal fields
RT Leasing
RT Legal aspects
RT Public lands

Laboratory
See Experimental results
See Field studies
See Laboratory equipment
See LASL
See Testing

Laboratory equipment
BT1 Equipment

Laboratory studies
RT Experimental results
RT Field studies

Laboratory testing
RT Testing

Lafayette Parish
BT1 Louisiana
BT2 Gulf Coast

Lagrange equations
BT1 Differential equations
BT2 Equations

Geopressured Geothermal Bibliography

RT Mechanics

Lakes

- BT1 Surface waters
- NT1 Caspian Sea
- NT1 Salton Sea
- RT Cooling ponds
- RT Fresh water
- RT Heat budget
- RT Hydrology
- RT Limnology
- RT Shores
- RT Water reservoirs

Land

- See Ground subsidence
- See Land leasing
- See Land pollution
- See Land pollution abatement
- See Land pollution control
- See Land reclamation
- See Land requirements
- See Mineral rights
- See Ownership
- See Public lands
- See Zoning

Land leasing

- BT1 Leasing
- RT Land use
- RT Leases
- RT Legal aspects
- RT Mineral rights
- RT Ownership
- RT Public lands
- RT Regulations

Land ownership

- Use Ownership

Land pollution

- BT1 Pollution
- RT Land pollution abatement
- RT Land pollution control
- RT Land use

Land pollution abatement

- BT1 Abatement
- RT Land pollution
- RT Land pollution control
- RT Land reclamation

RT Land use

Land pollution control

- BT1 Pollution control
- BT2 Control
- RT Land pollution
- RT Land pollution abatement
- RT Land reclamation
- RT Land use

Land reclamation

- RT Land pollution abatement
- RT Land pollution control
- RT Land use

Land requirements

- RT Land use

Land subsidence

- Use Ground subsidence

Land titles

- Use Ownership

Land use

- RT Land leasing
- RT Land pollution
- RT Land pollution abatement
- RT Land pollution control
- RT Land reclamation
- RT Land requirements
- RT Ownership
- RT Public lands
- RT Zoning

Lands

- See KGRAs
- See Land leasing
- See Public lands
- See Reserves

Larderello Geothermal Field

- BT1 Geothermal fields
- BT1 Italy
- BT2 Europe
- RT Vapor dominated systems

Lateral faults

- BT1 Faults
- BT2 Geologic structures

Laterolog

- BT1 Resistivity logging
- BT2 Electrical logging

Lava

- RT Magma
- RT Magma systems

RT Volcanism

Law

See Environmental impact statements
See Government policies
See Pollution
See Pollution law

Laws

NT1 Pollution law
RT Compliance
RT Enforcement
RT Legal aspects
RT Legislation
RT Regulations

Lawsuits

RT Arbitration
RT Courts
RT Hearings

LaFourche Parish

BT1 Louisiana
BT2 USA
BT3 North America

Leaching

BT1 Separation processes
RT Solubility

Lead

BT1 Metals
BT2 Elements

Leading abstract

BT1 Abstracts
BT2 Document types

Leakage

RT Fluid flow
RT Lost circulation
RT Permeability
RT Porosity
RT Water influx

Leases

RT Land leasing
RT Leasing

RT Mineral rights

Leasing

NT1 Fuel leasing
NT1 Land leasing
RT Development
RT Exploitation
RT KGRAS
RT Leases
RT Legal aspects
Also see Mineral rights
Also see Ownership

Lectures

BT1 Document types

Legal

See Government policies
See Inspection
See Land leasing
See Laws
See Leasing
See Legal aspects
See Mineral rights
See Ownership
See Patents
See Recommendations

Legal aspects

RT Compliance
RT Enforcement
RT Government policies
RT Inspection
RT Insurance
RT KGRAs
RT Land leasing
RT Laws
RT Leasing
RT Legislation
RT Liabilities
RT Licensing
RT Mineral rights
RT Ownership
RT Patents
RT Recommendations
RT Regulations
RT Safeguards
RT Safety standards

Geopressured Geothermal Bibliography

RT Water rights	RT Surface waters
Legislation	Liquid
RT Government policies	See Ground water
RT Hearings	See Hot water systems
RT Implementation	See Liquid flow
RT Laws	See Liquid wastes
RT Legal aspects	See Surface waters
RT Local government	See Waste disposal
RT National government	See Water
RT Regulations	
RT State government	
Liabilities	Liquid dominated hydrothermal systems
RT Accidents	Use Hot water systems
RT Hazards	
RT Insurance	
RT Legal aspects	
Licenses	Liquid effluents
Use Licensing	Use Liquid wastes
Licensing	Liquid flow
RT Inspection	BT1 Fluid flow
RT Legal aspects	RT Flowmeters
RT Patents	RT Hydrodynamics
RT Recommendations	RT Liquids
RT Regulations	RT Two phase flow
RT Royalties	
RT Safety standards	
RT Site selection	
Life-cycle cost	Liquid waste disposal
BT1 Cost	Use Liquid wastes
RT Cost benefit analysis	Use Waste disposal
RT Economics	
Limestone	Liquid wastes
BT1 Sedimentary rocks	BT1 Wastes
BT2 Rocks	NT1 Waste water
RT Calcite	RT Brine treatment
RT Carbonate rocks	RT Chemical effluents
RT Clastic rocks	RT Ground water
RT Nonclastic rocks	RT Surface waters
RT Water	RT Waste disposal
RT Waste processing	
Limnology	Liquids
RT Aquatic ecosystems	BT1 Fluids
RT Fresh water	RT Liquid flow
RT Heat budget	RT Saturated vapor
RT Hydrosphere	
RT Lakes	RT Vapors
RT Oceanography	
	Literature
	See Reviews
	Literature reviews
	Use Reviews
	Lithification
	RT Burial
	RT Diagenesis
	RT Rocks
	RT Sedimentary rocks
	RT Sedimentology

RT Sediments	See Exploration
Lithium	
BT1 Alkali metals	See Acoustic monitoring
BT2 Metals	See Caliper logging
Lithology	See Cement bond logging
RT Petrology	See Dipmeter logging
RT Sedimentary rocks	See Electrical logging
Lithosphere	See Gamma ray logging
RT Earth crust	See Gamma spectroscopy
RT Earth planet	See Gravity logging
RT Earth planetary structure	See Hole diameter
Lithostatic	See Induction logging
See Geostatic pressure	See Magnetic logging
Lithostatic pressure	See Microresistivity logging
Use Geostatic pressure	See Neutron logging
Lithotope	See Nuclear magnetic logging
Use Depositional environment	See Production logging
Live Oak County	See Radioactivity logging
BT1 Texas	See Reservoir temperature
BT2 USA	See Resistivity logging
BT3 Louisiana	See Seismic detection
Live Oak Fairway	See Sonic logging
BT1 Texas	See Sound velocity
BT2 USA	See Sound waves
BT3 North America	See Sp logging
Livestock	See Temperature logging
Use Domestic animals	See Temperature surveys
Local	See Well characteristics
See Government policies	See Well drilling
See Local government	See Well logging
See National government	See Wells
See Regulations	
See State government	
Local government	
RT Government policies	Logging (well)
RT Legislation	Use Well logging
RT National government	
RT Regulations	Logs
RT State government	See Well logging
Location	Long Valley
	Use Mono-long Valley KGRA
	Los Alamos
	See LASL
	Los Alamos Scientific
	Laboratory
	Use LASL
	Lost circulation
	RT Leakage
	RT Permeability
	RT Porosity
	RT Wells
	Lost Hills
	BT1 California
	BT2 USA

Geopressured Geothermal Bibliography

BT3 North America

Louisiana

BT1 Gulf Coast
BT2 North America
NT1 Acadia Parish
NT1 Beulah Simon No. 2 Well
NT1 Calcasieu Parish
NT1 Cameron Parish
NT1 Edna Delcambre No. 1 Well
NT1 Eugene Eugene Island Block 18 Field
NT1 Fairfax Foster Sutter No. 2 Well
NT1 Gladys McCall No. 1 Well
NT1 Godchaux Well No. 1
NT1 Iberia Parish
NT1 Jefferson Davis Parish
NT1 L.R. Sweezy No. 1 Well
NT1 Lafayette Parish
NT1 Lafourche Parish
NT1 MG-T/DOE Amoco Fee No. 1 Well
NT1 P.R. Girouard Well No. 1
NT1 St Mary Parish
NT1 Tenneco Fee "N" No. 1 Well
NT1 Terrebonne Parish
NT1 Tigre Lagoon Geothermal Field
NT1 Vermilion Parish
RT Frio Formation
RT Gulf Coast
RT Norphlet Formation
RT Queen City Formation
RT Smackover Formation
RT Vicksburg Formation
RT Wilcox Formation

Low

See Low concentration
See Low pressure
See Low temperature
See Trace amounts

Low concentration

RT Concentration dependence
RT Infinite dilution
RT Trace amounts

Low pressure

RT Pressure dependence

Low temperature

RT Temperature dependence

Lubricants

RT Drilling fluids

Lumps

See Mud lumps

LASL

BT1 US organizations
BT2 National organizations

Magma

BT1 Igneous rocks
BT2 Rocks
RT Hydrothermal stage
RT Lava
RT Magma reservoirs
RT Magma systems
Also see Magma reservoirs
Also see Magma systems
Also see Volcanism

Magma reservoirs

BT1 Subsurface reservoirs
RT Magma
RT Magma systems
RT Volcanism

Magma systems

BT1 Geothermal systems
RT Lava
RT Magma
RT Magma reservoirs

Magmatic water

Use Juvenile water

Magnesium

BT1 Alkaline earth metals
BT2 Metals
Also see Dolomite
Also see Magnesium carbonates
Also see Magnesium chlorides
Also see Magnesium sulfates

Magnesium carbonates

BT1 Magnesium inorganic compounds
RT Dolomite

Magnesium chlorides

BT1 Magnesium inorganic compounds
BT1 Chlorides
BT2 Chlorine inorganic

compounds

Magnesium inorganic compounds
RT Magnesium carbonates
RT Magnesium chlorides
RT Magnesium sulfates

Magnesium sulfates
BT1 Magnesium inorganic compounds
BT1 Sulfates
BT2 Oxygen inorganic compounds

Magnetic
See Induction logging
See Magnetic logging
See Magnetic surveys
See Nuclear magnetic logging
See Nuclear magnetic resonance

Magnetic induction logging
Use Induction logging

Magnetic logging
BT1 Well Logging

Magnetic surveys
BT1 Geophysical surveys
BT2 Exploration methods
RT Geothermal exploration
RT Induction logging

Magnetotelluric
See Magnetotelluric surveys

Magnetotelluric surveys
BT1 Electromagnetic surveys
BT2 Electrical surveys

Maintenance
RT Operation

Management
NT1 Waste management
NT1 Water management
RT Allocations
RT Forecasting
RT Institutional aspects
RT Ownership
RT Personnel
RT Public relations
Also see Radioactive wastes
Also see Recovery processes

Also see Wastes

Manganese
BT1 Transition elements
BT2 Metals

Manometers
Use Pressure guages

Mantle
Also see Earth crust
Use Earth mantle

Mantlerock
Use Overburden

Manuals
BT1 Document types
RT Education
RT Recommendations

Mapping
See Exploration methods
See Maps
See Topography

Maps
BT1 Document types
NT1 Contour maps
NT1 Isoporosity maps
NT1 Isopressure maps
NT1 Isosaline maps
NT1 Isothermal maps
NT1 Stratigraphic maps
RT Diagrams
RT Topography
RT Topological mapping
Also see Facies maps
Also see Isochore maps
Also see Isopach maps
Also see Net sand maps
Also see Sand percent maps
Also see Sand trend maps
Also see Trend maps

Marble
BT1 Metamorphic rocks
BT2 Rocks
RT Calcite
RT Dolomite

Mariculture

Geopressured Geothermal Bibliography

Use Aquaculture

See Mass transfer

Marine

- See Geochemical surveys
- See Geophysical surveys
- See Marine geology
- See Marine surveys
- See Sea water

Marine exploration

- Use Marine surveys

Marine geology

- BT1 Geology
- RT Continental shelf
- RT Continental slopes
- RT Engineering geology
- RT Geomorphology
- RT Hydrogeology
- RT Oceanography
- RT Sea bed
- RT Seas

Marine surveys

- RT Geochemical surveys
- RT Geophysical surveys

Marine water

- Use Sea water

Market

- RT Commercialization
- RT Economics
- RT Forecasting
- RT Trade

Marysville

- See Marysville KGRA

Marysville KGRA

- BT1 KGRAs
- BT1 Montana
- BT2 USA
- BT3 North America
- RT Geothermal fields

Mass

- See Convection
- See Electrodialysis
- See Energy transfer
- See Fluid flow

Mass transfer

- RT Convection
- RT Diffusion
- RT Electrodialysis
- RT Energy transfer
- RT Fluid flow
- RT Osmosis

Matagorda County

- BT1 Texas
- BT2 Gulf Coast

Matagorda Fairway

- BT1 Texas
- BT2 USA
- BT3 North America

Materials

- See Corrosion
- See Inspection
- See Materials recovery
- See Materials testing
- See Mechanical properties
- See Organic matter
- See Stresses

Materials recovery

- BT1 Waste processing
- BT2 Processing
- BT2 Waste management
- RT Energy recovery

Materials testing

- BT1 Testing
- RT Corrosion
- RT Inspection
- RT Mechanical properties
- RT Performance testing
- RT Stresses

Mathematical

- See Comparative evaluations
- See Computer codes
- See Empirical equations
- See Equations
- See Mathematical methods
- See Mathematical models
- See Mathematics
- See Measurement
- See Measuring methods
- See Simulation

Mathematical methods

- RT Calculation methods
- RT Measurement
- RT Measuring methods

RT Numerical analysis

Mathematical models

- BT1 Models
- NT1 Flow models
- NT1 Statistical models
- RT Comparative evaluations
- RT Computer codes
- RT Correlation
- RT Empirical equations
- RT Equations
- RT Mathematics
- RT Numerical solution
- RT Simulation
- RT Structural models

Mathematics

- NT1 Numerical analysis
- NT1 Trend analysis
- RT Algorithms
- RT Differential equations
- RT Equations
- RT Mathematical models
- RT Numerical solution
- RT Statistical models

Matrix (rock)

- Use Rock matrix

Matter

- See Organic compounds
- See Organic matter
- See Solid wastes

Maturation

- RT Petroleum
- See Thermal alteration

McAllen Ranch Geothermal Field

- BT1 Geothermal fields
- BT1 Texas
- BT2 USA

BT3 North America

Measurement

- NT1 Pressure measurement
- NT1 Temperature measurement
- RT Calculation methods
- RT Mathematical methods
- RT Measuring methods
- Also see Bottom hole pressure
- Also see Geothermometers
- Also see Geothermometry
- Also see Isopiestic measurement
- Also see Measuring instruments
- Also see Physical properties
- Also see Pressure control
- Also see Pressure gages
- Also see Temperature control
- Also see Temperature logging
- Also see Temperature monitoring

Measuring

- See Equipment
- See Measurement
- See Measuring instruments
- See Measuring methods
- See Sampling
- See Well logging

Measuring instruments

- NT1 Flowmeters
- NT1 Piezometers
- NT1 Pressure gages
- NT1 Seismographs
- NT1 Thermometers
- RT Calibration
- RT Equipment
- RT Geothermometers
- RT Measuring methods
- RT Pressure measurement
- RT Recording systems
- RT Sensitivity
- RT Temperature measurement

Geopressured Geothermal Bibliography

RT Well logging

Measuring methods

- NT1 Absorption spectroscopy
- NT1 Chemical analysis methods
- NT1 Emission spectroscopy
- NT1 Gamma spectroscopy
- NT1 Geothermometry
- NT1 Gravimetry
- NT1 Isopiestic measurement
- NT1 Nuclear magnetic resonance
- NT1 Piezometry
- RT Calculation methods
- RT Calibration
- RT Mathematical methods
- RT Measurement
- RT Measuring instruments
- RT Qualitative chemical analysis
- RT Quantitative chemical analysis
- RT Sampling
- RT Sensitivity

Mechanical

- See Mechanical properties
- See Rheology
- See Stresses

Mechanical properties

- NT1 Brittleness
- NT1 Compressibility
- NT1 Creep
- NT1 Fatigue
- NT1 Fracture properties
- NT1 Plasticity
- NT1 Shear properties
- NT1 Tensile properties
- RT Deformation
- RT Materials testing
- RT Rheology
- RT Rock properties
- RT Shear stress
- RT Soil mechanics

RT Stresses

Mechanics

- RT Lagrange equations
- Also see Consolidation
- Also see Field studies
- Also see Fluid flow
- Also see Fluid mechanics
- Also see Ground subsidence
- Also see Mechanical properties
- Also see Reservoir engineering
- Also see Rock failures
- Also see Rock mechanics
- Also see Rock properties
- Also see Rocks
- Also see Sea bed
- Also see Slope stability
- Also see Soils

Media

- See Porosity
- See Semipermeable membranes

Meetings

- RT Document types
- RT Hearings
- RT Proceedings

Melting

- BT1 Phase transformations
- Also see Melting point

Melting point

- BT1 Transition temperature
- BT2 Thermodynamic properties

Membranes

- Use Semipermeable membranes

Mercury

- BT1 Metals
- BT2 Elements

Mesozoic Era

- BT1 Geologic times
- NT1 Cretaceous Period
- NT1 Jurassic Period
- NT1 Triassic Period

RT Franciscan Formation

Metals

- BT1 Elements
- NT1 Actinides
- NT1 Alkali metals
- NT1 Alkaline earth metals
- NT1 Aluminum
- NT1 Antimony
- NT1 Bismuth
- NT1 Cadmium
- NT1 Gallium
- NT1 Germanium
- NT1 Indium
- NT1 Lead
- NT1 Mercury
- NT1 Polonium
- NT1 Rare earths
- NT1 Thallium
- NT1 Tin
- NT1 Transition elements
- NT1 Zinc

Metamorphic

- See Metamorphic rocks
- See Petrology

Metamorphic rocks

- BT1 Rocks
- NT1 Amphibolite
- NT1 Marble
- NT1 Schist
- NT1 Slate
- RT Petrology

Metamorphism

- BT1 Geologic processes
- RT Burial

Meteoric

- See Atmospheric precipitations
- See Meteoric water

Meteoric water

- BT1 Ground water
- BT2 Subsurface waters
- RT Atmospheric

precipitations

Meteorology

- NT1 Atmospheric precipitations
- RT Climates
- RT Earth atmosphere
- RT Seasons
- RT Site selection
- RT Storms
- RT Temperature inversions
- RT Weather
- RT Wind

Methane

- BT1 Alkanes
- BT2 Hydrocarbons
- RT Dissolved gases

Methods

- See Chemical analysis methods
- See Exploration
- See Exploration methods
- See Graphic methods
- See Mathematical methods
- See Measurement
- See Measuring methods
- See Numerical solution
- See Sampling
- See Thermal exploration methods

Methy'ene

- See Methylene blue

Methylene blue

- BT1 Organic compounds

Methylpropane

- See 2-methylpropane

Mexico

- BT1 North America
- BT2 Continents
- NT1 Cerro Prieto Geothermal Field
- NT1 Tabasco
- Also see Gulf Coast
- Also see Gulf of Mexico
- Also see New Mexico

Micas

- BT1 Silicate minerals
- BT2 Minerals
- NT1 Biotite
- NT1 Muscovite

Geopressured Geothermal Bibliography

NT1 Sericite	RT Federal buildings
Microcline BT1 Feldspars BT2 Silicate minerals	Mineral See Dolomite See Engineering geology See Geologic deposits See Hot springs See Mineral composition See Mineral exploration See Mineral production See Mineral resources See Mineral rights See Mineral springs See Mineral wastes See Minerals See Ownership See Recovery processes See Thermal springs
Microearthquakes BT1 Earthquakes BT2 Seismic events BT2 Earth movements	
Microlaterologging Use Microresistivity logging	
Micrologging Use Microresistivity logging	Mineral composition BT1 Composition
Microorganisms NT1 Bacteria NT1 Protozoa RT Biology	Mineral deposits
Micropaleontology RT Geochronology Use Paleontology	Mineral exploration BT1 Exploration
Microresistivity See Microresistivity logging	Mineral production BT1 Production RT Economic geology
Microresistivity logging BT1 Resistivity logging BT2 Electrical logging	Mineral recovery RT Minerals RT Recovery processes
Microseismicity Use Microseisms	Mineral resources BT1 Resources RT Engineering geology RT Geologic deposits RT Mineral rights RT Ownership
Microseisms BT1 Seismic waves RT Seismic noise RT Seismology	Mineral rights BT1 Ownership RT Land leasing RT Leases RT Legal aspects RT Mineral resources
Middle East NT1 Israel NT1 Turkey	Mineral springs BT1 Water springs RT Hot springs RT Thermal springs
Migration	
Military facilities	Mineral wastes BT1 Solid wastes BT2 Wastes

RT Chemical effluents	BT2 Streams
Mineralization	Mississippian Period
RT Burial	BT1 Carboniferous Periods
RT Crystallization	BT2 Paleozoic Era
Mineralogy	Mixtures
RT Minerals	RT Solutions
Also see Clay	
Also see Clay mineralogy	
Minerals	Mobile homes
NT1 Carbonate minerals	BT1 Buildings
NT1 Halide minerals	RT Houses
NT1 Oxide minerals	
NT1 Silica minerals	
NT1 Silicate minerals	
NT1 Sodium minerals	
NT1 Sulfate minerals	
NT1 Sulfide minerals	
RT Crystallography	
RT Geological setting	
RT Mineral recovery	
RT Mineralogy	
Also see Carbonates	
Also see Chlorite minerals	
Also see Clay	
Also see Clay mineralogy	
Also see Clay minerals	
Also see Halides	
Also see Sulfates	
Also see Sulfides	
Miocene	Models
See Miocene Epoch	NT1 Functional models
Miocene Epoch	NT1 Mathematical models
BT1 Tertiary Period	NT1 Structural models
BT2 Cenozoic Era	Also see Comparative evaluations
	Also see Computer codes
	Also see Empirical equations
	Also see Equations
	Also see Flow models
	Also see Fluid flow
	Also see Geologic structures
	Also see Mathematics
	Also see Simulation
	Also see Statistical models
Moderate	Moderate
	See Moderate concentration
	See Moderate pressure
	See Moderate temperature
	Moderate concentration
	RT Concentration dependence
	Moderate pressure
	RT Pressure dependence
	Moderate temperature
	RT Temperature dependence
	Molal
	See Elevated concentration
	See High concentration
	See Low concentration
	See Moderate concentration
	Molybdenum
	BT1 Transition elements
Mississippi	
BT1 Gulf Coast	
BT2 North America	
NT1 Greene County	
NT1 Rankin County	
RT Gulf Coast	
RT Smackover Formation	
RT Vicksburg Formation	
RT Wilcox Formation	
Also see Mississippi River	
Mississippi River	
BT1 North America	
BT2 Continents	
BT1 Rivers	

Geopressured Geothermal Bibliography

BT2 Metals

Monitoring

- NT1 Acoustic monitoring
- NT1 Air monitoring
- NT1 Corrosion monitoring
- NT1 Scale monitoring
- NT1 Temperature monitoring
- NT1 Water monitoring
- NT1 Well monitoring

RT Control

RT Detection

RT Remote control

RT Well information systems

Also see Air pollution

Also see Air pollution monitors

Also see Corrosion

Also see Corrosive effects

Also see Crevice corrosion

Also see Observation wells

Also see Water pollution

Also see Well information systems

Monitoring wells

Use Observation wells

Monitors

See Air pollution

See Air pollution control

See Air pollution monitors

Monitors (air pollution)

Use Air pollution monitors

Mono-long

See Mono-long Valley KGRA

Mono-long Valley KGRA

- BT1 KGRAs
- BT1 California
- BT2 USA
- BT3 North America
- RT Geothermal fields

Monoclines

- BT1 Folds
- BT2 Geologic structures

Montana

- BT1 USA
- BT2 North America
- NT1 Marysville KGRA

RT Yellowstone National Park

Montgomery Fairway

- BT1 Texas
- BT2 USA
- BT3 North America

Montmorillonite

- BT1 Clay minerals
- BT2 Silicate minerals

Mordenite

- BT1 Zeolites
- BT2 Silicate minerals

Morrow Formation

- RT Arkansas
- RT Oklahoma

Motion

See Ground motion

See Seismic events

Mountains

- NT1 Coast ranges
- NT1 Jemez Mountains
- NT1 Urals
- Also see Geothermal fields
- Also see Jemez Mountains

Movements

- See Earth movements
- See Geology
- See Ground motion
- See Seismic waves
- See Seismology

Mud

- See Circulating rate
- See Mud lumps
- See Mud volcanoes

Mud flow rate

Use Circulating rate

Mud logging

- BT1 Well logging
- RT Drilling fluids
- RT Gas analysis

Mud lumps

- BT1 Shale diapirs
- BT2 Diapirs

Mud volcanoes

- BT1 Shale diapirs

BT2 Diapirs	Park
Mud weight BT1 Fluid properties BT2 Physical properties RT Density RT Drilling fluids	National government RT Government policies RT Legislation RT Local government RT National organizations RT Regulations RT State government
Muds Use Drilling fluids	National organizations NT1 US organizations RT National government
Mudstone BT1 Clastic rocks BT2 Sedimentary rocks RT Sediment deposits RT Shale RT Siltstone	Natural See Exploitation See Gas production See Geophysical surveys See Geothermal resources See Hydrology See Hydrothermal systems See Interstitial water See Natural gas See Natural gas deposits See Natural gas fields See Natural gas industry See Natural gas wells See Natural occurrence See Natural recharge See Natural steam See Overdraft See Reservoir rocks See Resources See Salt domes See Stratigraphic traps See Structural traps See Traps
Municipal heating Use District heating	
Muscovite BT1 Micas BT2 Silicate minerals	
Mutation zone	
MWD systems RT Drilling RT Well drilling RT Well logging See Downhole information systems See Measurements while drilling	
Nagaoka See Nagaoka Plain	
Nagaoka Plain BT1 Japan BT2 Asia	
National See Government policies See National government See National organizations See Regulations See Yellowstone National	

Geopressured Geothermal Bibliography

See Well completion

Natural gas

BT1 Fossil fuels
BT2 Fuels
BT1 Fuel gas
BT2 Fuels
BT2 Gases
RT Condensates
RT Drilling rigs
RT Gas caps
RT Gas production
RT Natural gas deposits
RT Natural gas fields
RT Natural gas industry
RT Natural gas wells
RT Public utilities
RT Regulation
Also see Exploitation
Also see Geophysical surveys
Also see Geothermal resources
Also see Hydrology
Also see Hydrothermal systems
Also see Interstitial water
Also see Natural gas wells
Also see Natural occurrence
Also see Natural recharge
Also see Natural steam
Also see Overdraft
Also see Reservoir rocks
Also see Resources
Also see Stratigraphic traps
Also see Structural traps
Also see Traps
Also see Well completion

Natural gas deposits

BT1 Geologic deposits
BT1 Reserves
NT1 Natural gas fields
RT Geophysical surveys
RT Natural gas
RT Natural gas industry
RT Petroleum geology
RT Resources
RT Salt domes
RT Stratigraphic traps
RT Structural traps
RT Traps

RT Well logging equipment

Natural gas fields

BT1 Natural gas deposits
BT2 Reserves
BT2 Geologic deposits
RT Natural gas
RT Natural gas wells
RT Reservoir fluids
RT Reservoir rocks
RT Well spacing

Natural gas industry

BT1 Industry
RT Exploitation
RT Natural gas
RT Natural gas deposits

Natural gas liquids

Natural gas production

Use Gas production

Natural gas wells

BT1 Wells
RT Abandoned wells
RT Blowout preventers
RT Gas production
RT Interstitial water
RT Natural gas
RT Natural gas fields
RT Wellhead prices
RT Well completion
RT Wellheads

Natural occurrence

RT Anthropogenic occurrence

Natural recharge

BT1 Ground water recharge
RT Hydrology
RT Overdraft

Natural resources

Use Resources

Natural steam

BT1 Geothermal fluids
BT2 Fluids
RT Geothermal resources
RT Hydrothermal systems

Needs

See Information needs

Neogene Epoch

BT1 Tertiary Period
BT2 Cenozoic Era

BT3 Geologic times

Neon
BT1 Rare gases
BT2 Nonmetals

Net energy
RT Efficiency
RT Energy accounting
RT Energy consumption
RT Energy yield
RT Productivity

Net sand maps
BT1 Facies maps
BT2 Stratigraphic maps
RT Sand percent maps
RT Sand trend maps

Net sand thickness
Use Formation thickness

Neutral pressure
Use Pore pressure

Neutral stress
Use Pore pressure

Neutron
See Neutron logging

Neutron logging
BT1 Radioactivity logging
BT2 Well logging

Nevada
BT1 USA
BT2 North America

New Guinea
BT1 Australasia
RT Australia
RT New Zealand

New Mexico
BT1 USA
BT2 North America
NT1 Jemez Mountains
NT1 Valles Caldera
Geothermal Field
RT Rio Grande Rift

New Zealand
BT1 Australasia
NT1 Wairakei Geothermal Field

RT New Guinea

Newton/sq
See High pressure
See Low pressure
See Standard pressure

Nickel
BT1 Transition elements
BT2 Metals

Nigeria
BT1 Africa
BT2 Continents

Nitrogen
BT1 Nonmetals
BT2 Elements

Nitrogen inorganic compounds
RT Ammonia

Nmr
Also see Nuclear magnetic logging
Use Nuclear magnetic resonance

Noble
See Rare gases

Noise
RT Noise pollution abatement
RT Sound waves
Also see Microseisms
Also see Noise pollution
Also see Noise pollution control

Noise pollution
BT1 Pollution
RT Noise pollution abatement
RT Noise pollution control

Noise pollution abatement
BT1 Abatement
RT Noise
RT Noise pollution
RT Noise pollution control

Noise pollution control
BT1 Pollution control
BT2 Control
RT Noise pollution
RT Noise pollution abatement

Nonaqueous
See Aqueous solutions

Geopressured Geothermal Bibliography

See Nonaqueous solutions

Nonaqueous solutions
BT1 Solutions
RT Aqueous solutions

Nonclastic
See Nonclastic rocks

Nonclastic rocks
BT1 Sedimentary rocks
BT2 Rocks
NT1 Chert
NT1 Dolomite rocks
NT1 Evaporites
RT Limestone

Noncondensable
See Noncondensable gases

Noncondensable gases
Use Noncondensable gases

Noncondensable
See Noncondensable gases

Noncondensable gases
BT1 Gases
BT2 Fluids

Nonelectrical
See Direct energy utilization

Nonelectrical applications
Use Direct energy utilization

Nonmetals
BT1 Elements
NT1 Carbon
NT1 Halogens
NT1 Hydrogen
NT1 Nitrogen
NT1 Oxygen
NT1 Phosphorus
NT1 Rare gases
NT1 Sulfur

Normal faults
BT1 Faults
BT2 Geologic structures

Norphlet Formation
RT Louisiana

RT Texas

North America
BT1 Continents
NT1 Gulf Coast
NT1 Mexico
NT1 Mississippi River
NT1 Rio Grande Rift
NT1 USA

North Sea
BT1 Atlantic Ocean
BT2 Seas

Nozzles
RT Flowmeters
RT Fluid flow
RT Jets
RT Pipe fittings

Nuclear
See Nuclear energy
See Nuclear explosives
See Nuclear magnetic logging
See Nuclear power plants
See Nuclear magnetic resonance
See Radioactivity logging
See Seismic events

Nuclear energy
BT1 Energy
RT Nuclear power plants

Nuclear explosions
BT1 Explosions
RT Seismic events

Nuclear explosives
BT1 Explosives

Nuclear logging
Use Radioactivity logging

Nuclear magnetic logging
BT1 Radioactivity logging
BT2 Well logging
RT Nuclear magnetic resonance

Nuclear magnetic resonance
BT1 Measuring methods
NT1 Crystallography
RT Nuclear magnetic logging

Nuclear power

Use Nuclear energy	Use Anthropogenic occurrence
Nuclear power plants BT1 Thermal power plants BT2 Power plants RT Nuclear energy	Ocean See Atlantic Ocean See Indian Ocean See Ocean basins See Ocean thermal power plants See Ocean thermal energy conversion See Pacific Ocean See Rift valleys See Sea bed See Sea water See Seas See Submarine trenches
Nueces County BT1 Texas BT2 Gulf Coast	Ocean basins BT1 Basins BT2 Geologic structures
Numerical See Empirical equations See Mathematical methods See Mathematical models See Mathematics See Numerical analysis See Numerical solution	Ocean floor Use Sea bed
Numerical analysis BT1 Mathematics NT1 Sensitivity analysis RT Computer calculations RT Mathematical methods RT Numerical solution	Ocean ridges RT Rift valleys
Numerical solution RT Calculation methods RT Computer calculations RT Mathematical models RT Mathematics RT Numerical analysis	Ocean thermal energy conversion BT1 Solar energy conversion BT2 Energy conversion RT Ocean thermal power plants
Numerical solutions RT Empirical equations	Ocean thermal power plants BT1 Thermal power plants BT2 Power plants RT Ocean thermal energy conversion
NMR logging Use Nuclear magnetic logging Use Rare gases	Ocean trenches Use Submarine trenches
Observation wells BT1 Wells RT Aquifer tests RT Injection wells RT Well testing RT Well interference	Ocean water Use Sea water Use Seas
Obsidian BT1 Pyroclastic rocks BT2 Extrusive rocks	Oceanic crust BT1 Earth crust BT2 Earth planetary structure RT Continental crust RT Continental slopes
Occurrence Also see Industry Also see Natural occurrence	

Geopressured Geothermal Bibliography

RT Sea floor spreading	BT2 Drilling
Oceanography	
RT Earth planet	
RT Geography	
RT Limnology	
RT Marine geology	
RT Seas	
RT Surface waters	
Oceans	
Use Seas	
Odor	
RT Air pollution	
RT Gaseous wastes	
RT Water analysis	
Office buildings	
BT1 Commercial buildings	
BT2 Buildings	
RT Federal buildings	
Offshore	
See Coastal waters	
See Marine surveys	
See Offshore sites	
See Seas	
See Shores	
See Site selection	
Offshore sites	
RT Coastal waters	
RT Estuaries	
RT Seas	
RT Shores	
RT Site selection	
Offshore surveys	
Use Marine surveys	
Oil	
See Fossil fuels	
See Gas saturation	
See Oil drilling	
See Oil fields	
See Oil production	
See Oil saturation	
See Oil shale	
See Oil wells	
See Petroleum	
See Reservoir rocks	
See Well completion	
Oil drilling	
BT1 Well drilling	
Oil fields	
BT1 Petroleum deposits	
BT2 Reserves	
BT2 Geologic deposits	
RT Oil wells	
RT Petroleum	
RT Reservoir fluids	
RT Reservoir rocks	
RT Well spacing	
Oil production	
BT1 Production	
RT Oil wells	
RT Water production	
RT Well testing	
Oil saturation	
RT Gas saturation	
RT Reservoir rocks	
RT Water saturation	
Oil shale	
BT1 Shale	
BT2 Clastic rocks	
RT Fossil fuels	
RT Kerogen	
Oil wells	
BT1 Wells	
RT Abandoned wells	
RT Blowout preventers	
RT Blowouts	
RT Interstitial water	
RT Oil fields	
RT Oil production	
RT Petroleum	
RT Reentry	
RT Wellhead prices	
RT Well completion	
RT Well spacing	
RT Wellheads	
Oklahoma	
BT1 USA	
BT2 North America	
RT Anadarko Basin	
RT Morrow Formation	
Oligocene	
See Oligocene Epoch	
Oligocene Epoch	
BT1 Tertiary Period	
BT2 Cenozoic Era	

RT Frio Formation

Opal
BT1 Silica minerals
BT2 Minerals

Open-cycle systems
RT Thermodynamic cycles

Operation
RT Maintenance
RT Production

Opinion
See Public opinion

Optical
See Optical properties

Optical properties
BT1 Physical properties

Optimization
RT Control
RT Performance testing
RT Planning
RT Profitability

Ordovician
See Ordovician Period

Ordovician Period
BT1 Paleozoic Era
BT2 Geologic times

Oregon
BT1 USA
BT2 North America
NT1 Klamath Falls KGRA
RT Coast ranges

Organic
See Organic compounds
See Organic matter
See Solid wastes

Organic compounds
NT1 Hydrocarbons
NT1 Methylene blue
RT Organic matter

Organic materials
Use Organic matter

Organic matter
NT1 Vitrinite
RT Organic compounds

RT Solid wastes

Organisms
See Aquatic organisms

Organizations
See National government
See National organizations
See US organizations

Origin

Orthoclase
BT1 Feldspars
BT2 Silicate minerals

Osmosis
RT Diffusion
RT Mass transfer
RT Osmotic pressure
RT Permeability
RT Semipermeable membranes

Osmotic
See Osmosis
See Semipermeable membranes
See Thermodynamics

Osmotic pressure
RT Osmosis
RT Semipermeable membranes
RT Thermodynamics

Overburden
RT Earth mantle
RT Formation thickness
RT Geostatic pressure
RT Rock mechanics
RT Strata

Overdraft
RT Artificial recharge
RT Fluid withdrawal
RT Ground water
RT Ground water recharge
RT Natural recharge

Overpressure
Use Geopressure

Overpressured
See Geopressured reservoirs

Overpressured reservoirs
Use Geopressured reservoirs

Overted folds
BT1 Folds

Geopressured Geothermal Bibliography

BT2 Geologic structures	NT1 South China Sea
Ownership NT1 Mineral rights RT Industry RT Investment RT Land leasing RT Land use RT Legal aspects RT Management RT Mineral resources	Packing See Gravel packing See Slurry packing
Oxidation BT1 Redox reactions BT2 Chemical reactions RT Redox potential Also see Redox potential	Pakistan BT1 Asia BT2 Continents
Oxidation-reduction potential Use Redox potential	Paleocene See Paleocene Epoch
Oxide See Oxide minerals	Paleocene Epoch BT1 Tertiary Period BT2 Cenozoic Era
Oxide minerals BT1 Minerals NT1 Gibbsite NT1 Hematite RT Oxides	Paleoecology RT Biostratigraphy RT Depositional environment RT Ecology RT Environment RT Paleontology
Oxides BT1 Oxygen inorganic compounds NT1 Iron oxides RT Oxide minerals Also see Iron oxides	Paleomagnetism RT Geophysics
Oxygen BT1 Nonmetals BT2 Elements RT Dissolved gases Also see Oxygen inorganic compounds	Paleontology RT Biostratigraphy RT Foraminifera RT Geochronology RT Geology RT Paleoecology RT Protozoa RT Sedimentology RT Stratigraphy
Oxygen inorganic compounds NT1 Carbon dioxide NT1 Carbonates NT1 Oxides NT1 Sulfates	Paleopressure RT Geopressure
P waves Use Seismic p waves	Paleozoic See Paleozoic Era
Pacific Ocean BT1 Seas BT2 Surface waters	Paleozoic Era BT1 Geologic times NT1 Cambrian Period NT1 Carboniferous Periods NT1 Devonian Period NT1 Ordovician Period NT1 Permian Period NT1 Silurian Period
	Paper RT Paper industry
	Paper industry BT1 Industry

RT Paper

Parish

Also see Acadia Parish
Also see Calcasieu Parish
Also see Cameron Parish
Also see Iberia Parish
Also see Jefferson Davis Parish
Also see Lafayette Parish
Also see St Mary Parish
Also see Vermillion Parish

Park

See Yellowstone National Park

Particles

RT Sedimentation

Pascals

See High pressure
See Low pressure
See Standard pressure

Patents

BT1 Document types
RT Legal aspects
RT Licensing
RT Royalties
RT Specifications

Pecos

See Texas

Pegmatite

BT1 Intrusive rocks
BT2 Igneous rocks

Penetration

See Drilling rate
See Injection rates

Penetration rate

Use Drilling rate

Penetrators

NT1 Earth penetrators
NT1 Subterrene penetrators
Also see Rock drilling
Also see Well drilling

Pennsylvanian Period

BT1 Carboniferous Periods

BT2 Paleozoic Era

Pentane

BT1 Alkanes
BT2 Hydrocarbons

Percent

See Net sand maps
See Sand percent maps

Performance

RT Comparative evaluations
RT Efficiency
RT Feasibility studies
RT Performance testing
RT Reliability
Also see Inspection
Also see Materials testing
Also see Performance testing
Also see Productivity

Performance testing

BT1 Testing
RT Efficiency
RT Inspection
RT Materials testing
RT Optimization
RT Performance
RT Production testing
RT Productivity
RT Reliability
RT Well testing

Period

See Cambrian Period
See Cretaceous Period
See Devonian Period
See Jurassic Period
See Mississippian Period
See Ordovician Period
See Pennsylvanian Period
See Permian Period
See Quaternary Period
See Silurian Period
See Tertiary Period
See Triassic Period

Periods

See Carboniferous Periods

Permafrost

BT1 Soils

Geopressured Geothermal Bibliography

RT Frost

Permeability

BT1 Physical properties
RT Acidization
RT Electrodialysis
RT Formation damage
RT Free water
RT Hydraulic conductivity
RT Leakage
RT Lost circulation
RT Osmosis
RT Porosity
RT Production rate
RT Rock properties
RT Semipermeable membranes
Also see Acidization
Also see Aquifers
Also see Permeability barriers
Also see Plugging
Also see Stratigraphic traps
Also see Well stimulation

Permeability barriers

BT1 Geologic structures

Permeability restoration

RT Acidization
RT Aquifers
RT Plugging
RT Well stimulation

Permian

See Permian Period

Permian Period

BT1 Paleozoic Era
BT2 Geologic times

Permits

Use Licensing

Personnel

RT Management
RT Safety
RT Working conditions

Petrochemical plants

BT1 Industrial plants

Petroleum

BT1 Fossil fuels
BT2 Fuels
RT Drilling rigs
RT Hydrocarbons
RT Oil fields
RT Oil wells
RT Petroleum deposits
RT Petroleum exploration
RT Petroleum industry
Also see Anticlines
Also see Exploitation
Also see Geophysical surveys
Also see Petroleum deposits
Also see Petroleum exploration
Also see Petroleum industry
Also see Resources
Also see Salt domes
Also see Stratigraphic traps
Also see Structural traps
Also see Traps

Petroleum deposits

BT1 Geologic deposits
BT1 Reserves
NT1 Oil fields
RT Anticlines
RT Geophysical surveys
RT Petroleum geology
RT Petroleum
RT Petroleum industry
RT Resources
RT Salt domes
RT Stratigraphic traps
RT Structural traps
RT Traps
RT Well logging equipment

Petroleum exploration

BT1 Exploration
RT Petroleum
RT Petroleum industry

Petroleum geology

BT1 Geology
BT2 Economic geology
RT Engineering geology
RT Exploration
RT Geochemical prospectus
RT Natural gas deposits
RT Petroleum deposits
RT Petroleum industry
RT Petrology
RT Reservoir engineering
RT Stratigraphy

Geopressured Geothermal Bibliography

RT Zoning

Plants

BT1 Biomass
NT1 Aquatic organisms
NT1 Sugar cane
RT Agriculture
RT Biology
RT Crops
Also see Combined cycle power plants
Also see District heating
Also see Fossil fuel power plants
Also see Gas turbine power plants
Also see Geothermal energy conversion
Also see Hydroelectric power plants
Also see Industrial plants
Also see Nuclear power plants
Also see Ocean thermal power plants
Also see Pilot plants
Also see Power generation
Also see Power plants
Also see Solar power plants
Also see Space heating
Also see Steam power plants
Also see Steam turbine power generation
Also see Thermal power plants
Also see Tidal power plants
Also see Wind power plants

Plants (industrial)

Use Industrial plants

Plants (power)

Use Power plants

Plasticity

BT1 Mechanical properties
RT Deformation

Plate

See Earth crust
See Plate tectonics
See Rift valleys

See Volcanism

Plate tectonics

BT1 Tectonics
BT2 Geology
RT Benioff zones
RT Continental drift
RT Convection cells
RT Earth crust
RT Rift valleys
RT Sea floor spreading
RT Volcanism

Platinum

BT1 Transition elements
BT2 Metals

Pleasant Bayou No. 1 Well

BT1 Texas
BT2 USA
BT3 North America

Pleasant Bayou No. 2 Well

BT1 Texas
BT2 USA
BT3 North America

Pleistocene

See Pleistocene Epoch

Pleistocene Epoch

BT1 Quaternary Period
BT2 Cenozoic Era

Pliocene

See Pliocene Epoch

Pliocene Epoch

BT1 Tertiary Period
BT2 Cenozoic Era

Plugging

RT Formation damage
RT Fouling
RT Permeability restoration
RT Reaming
RT Reservoir rocks
RT Scaling
RT Suspended solids
RT Well stimulation

Plutonic

See Intrusive rocks
See Juvenile water
See Plutonic rocks

Plutonic rocks

BT1 Rocks

Geopressured Geothermal Bibliography

RT Intrusive rocks	Use Economic policy
Plutonic water Use Juvenile water	
Plutonium BT1 Actinides BT2 Metals	Pollution NT1 Air pollution NT1 Land pollution NT1 Noise pollution NT1 Thermal pollution NT1 Water pollution RT Aquifer rehabilitation RT Chemical effluents RT Environment RT Pollution law RT Pollution regulations RT Pollution control equipment RT Wastes Also see Air pollution abatement Also see Air pollution control Also see Air pollution monitors Also see Environmental impact statements Also see Gaseous wastes Also see Government policies Also see Land pollution abatement Also see Land pollution control Also see Noise pollution abatement Also see Noise pollution control Also see Pollution control equipment Also see Pollution control Also see Pollution law Also see Pollution regulations Also see Scrubbers Also see Temperature effects Also see Waste heat Also see Water pollution abatement Also see Water pollution control
Plutons Use Igneous intrusions	
Polar See Climates See Polar regions	
Polar regions NT1 Arctic regions RT Climates	
Policies See Government policies	
Policy Also see Allocations Also see Economics Also see Energy policy Also see Environmental policy Also see Forecasting Also see Government policies	
	Pollution control BT1 Control NT1 Air pollution control NT1 Land pollution control NT1 Noise pollution control NT1 Water pollution control RT Pollution control

equipment

Pollution control equipment
BT1 Equipment
NT1 Scrubbers
RT Air pollution abatement
RT Pollution
RT Pollution control
RT Water pollution abatement

Pollution law
BT1 Laws
RT Environmental impact statements
RT Government policies
RT Pollution
RT Pollution regulations

Pollution regulations
BT1 Regulations
RT Pollution
RT Pollution law

Polonium
BT1 Metals
BT2 Elements

Polymerization
BT1 Chemical reactions
RT Polymers

Polymers
NT1 Elastomers
RT Polymerization

Ponds
See Cooling
See Cooling ponds
See Cooling systems
See Lakes

Pools
See Swimming pools

Populations
NT1 Human populations
RT Biosphere
RT Communities
RT Ecosystems
RT Environment
Also see Demography
Also see Rural populations
Also see Sociology
Also see Socio-economic factors

Also see Urban populations

Pore
See Interstitial water
See Pore pressure
See Reservoir pressure

Pore fluid
Use Interstitial water

Pore fluid pressure
Use Reservoir pressure

Pore pressure
BT1 Hydrostatic pressure
BT2 Hydropressure
RT Capillary pressure
RT Interstitial water

Pore water
Use Interstitial water

Porosity
BT1 Physical properties
RT Chemisorption
RT Compaction
RT Isoporosity maps
RT Leakage
RT Lost circulation
RT Permeability
RT Porosity trends
RT Porous media
RT Rock properties

Porosity trends
BT1 Trends
RT Isoporosity map
RT Porosity

Porous
See Porosity
See Semipermeable membranes

Porous media
RT Hydraulic conductivity
RT Porosity
RT Semipermeable membranes

Porphyritic
See Porphyritic rocks

Porphyritic rocks
BT1 Igneous rocks
BT2 Rocks

Porphyry

Geopressured Geothermal Bibliography

Use Porphyritic rocks	RT Kinetic energy
Possibilities	
RT Forecasting	
Post depositional process	
Use Burial	
Potable	
See Drinking water	
Potable water	
Use Drinking water	
Potassium	
BT1 Alkali metals	
BT2 Metals	
Potential	
See Electric potential	
See Electric power	
See Freezing potential	
See Kinetic energy	
See Oxidation	
See Potential energy	
See Power potential	
See Redox potential	
See Redox reactions	
See Reduction	
See Self potential surveys	
See Sp logging	
Potential energy	
BT1 Energy	
RT Energy recovery	
	Power
	NT1 Electric power
	RT Power range 100-1000gw
	RT Power range 100-1000kw
	RT Power range 100-1000mw
	RT Power range 10-100gw
	RT Power range 10-100mw
	RT Power range 10-100kw
	RT Power range 1-10gw
	RT Power range 1-10kw
	RT Power range 1-10mw
	Also see Binary cycle power generation
	Also see Brayton cycle
	Also see Combined cycle power plants
	Also see Combined cycle power generation
	Also see Electric power
	Also see Electric power industry
	Also see Fossil fuel power plants
	Also see Gas turbine power plants
	Also see Gas turbine power generation
	Also see Geothermal power plants
	Also see Geothermal energy conversion
	Also see Hydroelectric power plants
	Also see Nuclear energy
	Also see Nuclear power plants
	Also see Ocean thermal power plants
	Also see Power generation
	Also see Power plants
	Also see Power potential
	Also see Public utilities
	Also see Rankine cycle
	Also see Solar power plants
	Also see Steam power plants
	Also see Steam turbine power generation
	Also see Thermal power plants
	Also see Thermodynamic cycles
	Also see Tidal power
	Also see Tidal power plants
	Also see Wind energy

Also see Wind power plants

Power cycles

Use Thermodynamic cycles

Power generation

NT1 Binary cycle power generation
NT1 Co-generation
NT1 Combined cycle power generation
NT1 Gas turbine power generation
NT1 Steam turbine power generation
RT Brayton cycle power systems
RT Electric generators
RT Electric power
RT Geothermal energy conversion
RT Power plants
RT Public utilities
RT Rankine cycle power systems
RT Thermodynamic cycles

Power plants

NT1 Hydroelectric power plants
NT1 Solar power plants
NT1 Thermal power plants
NT1 Tidal power plants
NT1 Wind power plants
RT Cooling towers
RT Electric power
RT Electric power industry
RT Power generation

Power potential

RT Electric power

Power production

Use Power generation

Power range 1-10gw

RT Power

Power range 1-10kw

RT Power

Power range 1-10mw

RT Power

Power range 10-100gw

RT Power

Power range 100-1000gw

RT Power

Power transmission

RT Electric power
RT Hybrid systems

Precambrian

See Precambrian Eras

Precambrian Eras

BT1 Geologic times

Precipitated

See Evaporites

Precipitation

BT1 Separation processes
RT Crystallization
RT Deposition
RT Evaporites
RT Ion exchange
RT Saturation
RT Solubility
RT Supersaturation

Precipitations

See Atmospheric precipitations

Precipitations (atmospheric)

Use Atmospheric precipitations

Prediction

Use Forecasting

Preparation

See Site selection

Presidio County

BT1 Texas

Geopressured Geothermal Bibliography

BT2 Gulf Coast

Pressure

See Artesian pressure
See Back pressure
See Bottom hole pressure
See Differential pressure
See Elevated pressure
See Flow rate
See Fluid flow
See Fluid pressure
See Geopressure
See Geopressured reservoirs
See Geostatic pressure
See Hazards
See High pressure
See Hydrodynamic pressure
See Hydrostatic pressure
See Injection rates
See Injection wells
See Interstitial water
See Isopiestic measurement
See Kicks
See Low pressure
See Measuring instruments
See Moderate pressure
See Osmosis
See Physical properties
See Pore pressure
See Pressure buildup
See Pressure control
See Pressure decline
See Pressure drop
See Pressure gages
See Pressure gradients
See Pressure measurement
See Pressure release
See Reservoir pressure
See Semipermeable membranes
See Standard pressure
See Subnormal formation pressure
See Thermodynamics
See Vapor pressure
See Volatility
See Well head pressure
See Wells

Pressure (< 1.0 E05
newton/sq m)

Use Standard pressure

Pressure (< 1.02 kg/sq m)

Use Low pressure

Pressure (< 1.45 E01 psi)

Use Low pressure

Pressure (> 5.0 E07

newton/sq m)

Use High pressure

Pressure (> 5.1 E02 kg/sq m)

Use High pressure

Pressure (> 7.25 E04 psi)

Use High pressure

Pressure (<1 bar)

Use Low pressure

Pressure (>500 bar)

Use High pressure

Pressure (back)

Use Back pressure

Pressure (bottom hole)

Use Bottom hole pressure

Pressure (differential)

Use Differential pressure

Pressure (fluid)

Use Fluid pressure

Pressure (geostatic)

Use Geostatic pressure

Pressure (pore)

Use Pore pressure

Pressure (vapor)

Use Vapor pressure

Pressure (well head)

Use Well head pressure

Pressure (1 bar)

Use Standard pressure

Pressure (1.0 E04-5.0 E07

Newton/SQ M)

Use Elevated pressure

Pressure (1.0 E05 newton/sq
m)

Use Standard pressure

Pressure (1.0 E05 pascals)

Use Standard pressure

Pressure (1.0 E05-1.0 E07
pascals)

Use Elevated pressure

Pressure (1.01 E07-5.0 E07 pascals)
Use Moderate pressure

Pressure (1.02 kg/sq m)
Use Standard pressure

Pressure (1.02-1.02 E02 kg/sq m)
Use Moderate pressure

Pressure (1.03-5.1 E02 kg/sq m)
Use Elevated pressure

Pressure (1.45 E01 psi)
Use Standard pressure

Pressure (1.45 E01-1.45 E03 psi)
Use Moderate pressure

Pressure (1.465 E03-7.252 E04 psi)
Use Elevated pressure

Pressure (1-100 bar)
Use Moderate pressure

Pressure (101-500 bar)
Use Elevated pressure

Pressure buildup

Pressure control
BT1 Control
RT Isopiestic measurement
RT Pressure measurement

Pressure decline
RT Drawdown
RT Time dependence

Pressure dependence
RT Elevated pressure
RT High pressure
RT Isopiestic measurement
RT Low pressure
RT Moderate pressure
RT Standard pressure

Pressure drawdown

Use Pressure decline

Pressure drop
RT Flow rate
RT Fluid flow
RT Isopiestic measurement
RT Pressure gradients
RT Pressure release

Pressure gradients
NT1 Geopressure gradients
RT Differential pressure
RT Isopiestic measurement
RT Overburden pressure
RT Pressure drop
RT Pressure measurement

Pressure guages
BT1 Measuring instruments
RT Pressure measurement

Pressure kicks
Use Kicks

Pressure measurement
BT1 Measurement
RT Bottom hole pressure
RT Isopiestic measurement
RT Measuring instruments
RT Physical properties
RT Piezometry
RT Pressure control
RT Pressure gages
RT Pressure gradients

Pressure release
RT Blowouts
RT Hazards
RT Isopiestic measurement
RT Pressure drop

Pressure seals

Preventers
See Blowout preventers
See Blowouts
See Natural gas wells
See Oil wells

Prices
Use Charges

Proceedings
BT1 Document types

Geopressured Geothermal Bibliography

RT Meetings	See Production decline rate
Process	Production logging BT1 Well logging
See Burial	
See Direct energy utilization	Production rate
See Frasch sulfur process	BT1 Rates
See Industrial heating	RT Permeability
See Process heat	RT Production
Process heat	RT Productivity
BT1 Heat	RT Production testing
BT2 Energy	RT Reservoir pressure
RT Direct energy utilization	RT Well testing
RT Industrial heating	
Processes	Production testing
See Geologic processes	BT1 Well testing
See Recovery processes	BT2 Testing
See Refining	RT Gas production
See Separation processes	RT Performance testing
Processing	RT Productivity
NT1 Data processing	RT Production rate
NT1 Refining	RT Water production
NT1 Waste processing	
Also see Computers	Productivity
Also see Data	RT Efficiency
Also see Data analysis	RT Energy yield
Also see Liquid wastes	RT Feasibility studies
Also see Radioactive wastes	RT Net energy
Also see Recovery processes	RT Performance testing
Also see Scrubbers	RT Production rater
Also see Waste processing	RT Production testing
	RT Production
Producing	Products
See Producing wells	See Anthropogenic occurrence
Producing wells	See Corrosion
BT1 Wells	See Corrosion monitoring
Production	See Desalination
NT1 Gas production	See Economics
NT1 Mineral production	See Industry
NT1 Oil production	See Recovery processes
NT1 Sand production	
NT1 Water production	Profitability
RT Operation	RT Evaluation
RT Planning	RT Financial incentives
RT Production rate	RT Income
RT Productivity	RT Investment
Also see Power generation	RT Optimization
Also see Production logging	See Rate of Return
Production decline curve	
BT1 Graphs	Profits
RT Well data	RT Charges
See Decline curve analysis	RT Economics
	RT Income
	Programming
	RT Computer codes

RT Computers See US EPA

Programs
See Commercialization
See Computer codes
See Information needs
See Planning
See Research programs
See Reviews

Programs (computer)
Use Computer codes

Programs (research)
Use Research programs

Propagation
See Wave propagation

Propagation (wave)
Use Wave propagation

Propane
BT1 Alkanes
BT2 Hydrocarbons

Properties
See Chemical properties
See Elasticity
See Electrical properties
See Engineering
See Fracture properties
See Geopressured reservoirs
See Mechanical properties
See Optical properties
See Physical properties
See Reservoir engineering
See Reservoir properties
See Rheology
See Rock properties
See Shear properties
See Strains
See Stresses
See Surface properties
See Tensile properties
See Thermodynamic properties
See Well characteristics

Prospecting
Also see Aerial surveys
Use Exploration

Protection
See Corrosion
See Corrosion monitoring
See Corrosion protection
See Crevice corrosion

Protozoa
BT1 Microorganisms
BT1 Invertebrates
BT2 Animals
NT1 Foraminifera
RT Paleontology

Provinces
See Geologic provinces

Psi
See High pressure
See Low pressure
See Standard pressure

Public
See Human populations
See KGRAs
See Land leasing
See Management
See Natural gas
See Power generation
See Public buildings
See Public health
See Public lands
See Public opinion
See Public utilities
See Reserves
See Sociology

Public attitudes
Use Public opinion

Public buildings
BT1 Buildings
RT Federal buildings

Public health
RT Communities
RT Human populations

Public lands
NT1 Yellowstone National Park
RT KGRAs
RT Land leasing
RT Land use
RT Recreational facilities
RT Reserves

Public opinion
RT Public relations

Public relations
RT Management
RT Public opinion

Geopressured Geothermal Bibliography

RT Sociology	BT2 Minerals
Public utilities	Qualitative
RT Electric power	See Chemical analysis
RT Natural gas	methods
RT Power generation	See Chemical composition
Pumice	See Chemistry
BT1 Pyroclastic rocks	See Gas analysis
BT2 Extrusive rocks	See Measuring methods
Pump tests	See Qualitative chemical
Use Aquifer tests	analysis
Pumping	Qualitative chemical analysis
RT Dewatering	BT1 Chemical analysis
RT Wells	BT2 Analysis
Pumps	RT Chemical analysis methods
NT1 Downhole pumps	RT Chemical composition
NT1 Injection pumps	RT Chemistry
RT Compressors	RT Gas analysis
RT Gas ejectors	RT Measuring methods
Also see Injection pumps	
Also see Well design	
Purification	Quality
See Water treatment	See Air
Pyrite	See Air pollution
BT1 Sulfide minerals	See Drinking water
BT2 Minerals	See Water
Pyrites	See Water pollution
Also see Chalcopyrite	See Water quality
Also see Pyrite	See Water treatment
Use Sulfide minerals	
Pyroclastic	Quantitative
See Pyroclastic rocks	See Chemical analysis
See Volcanism	methods
Pyroclastic rocks	See Chemical composition
BT1 Extrusive rocks	See Chemistry
BT2 Igneous rocks	See Gas analysis
NT1 Obsidian	See Gas chromatography
NT1 Pumice	See Measuring methods
NT1 Tuff	See Quantitative chemical
RT Volcanism	analysis
Pyrophyllite	Quantitative chemical analysis
BT1 Silicate minerals	BT1 Chemical analysis
BT2 Minerals	BT2 Analysis
Pyroxenes	RT Chemical analysis methods
BT1 Silicate minerals	RT Chemical composition
	RT Chemistry
	RT Gas analysis
	RT Gas chromatography
	RT Measuring methods
	Quartz
	BT1 Silica minerals
	BT2 Minerals
	RT Sandstone
	RT Siltstone
	Quaternary

See Quaternary Period

Quaternary Period
BT1 Cenozoic Era
BT2 Geologic times
NT1 Pleistocene Epoch
NT1 Recent Epoch

Queen City Formation
RT Louisiana
RT Texas

Radiation
See Electromagnetic radiation
See Gamma radiation
See Gamma ray logging
See Gamma spectroscopy

Radiators
RT Heating

Radioactive
See Radioactive wastes

Radioactive wastes
BT1 Wastes
RT Contamination
RT Salt deposits
RT Waste disposal
RT Waste management
RT Waste processing

Radioactivity
RT Contamination
Also see Radioactivity logging
Also see Radioactivity surveys

Radioactivity logging
BT1 Well logging
NT1 Gamma-Gamma logging
NT1 Gamma ray logging
NT1 Neutron logging

Radioactivity surveys
BT1 Geophysical surveys
BT2 Exploration methods
NT1 Gamma ray surveys

Radiometric
See Radiometric surveys

Radiometric surveys
BT1 Geophysical surveys

BT2 Exploration methods

Radium
BT1 Alkaline earth metals
BT2 Metals

Radon
BT1 Rare gases
BT2 Nonmetals

Raft River
See Raft River KGRA

Raft River KGRA
BT1 KGRAs
BT1 Idaho
BT2 USA
BT3 North America
RT Geothermal fields

Rain
BT1 Atmospheric precipitations
BT2 Meteorology
RT Rain water
RT Snow
RT Storms
Also see Rain water

Rain water
BT1 Water
RT Rain
RT Water resources

Range
See Power

Ranges
See California
See Coast ranges
See Oregon

Rankin County
BT1 Mississippi
BT2 Gulf Coast

Rankine
See Power generation
See Rankine cycle
See Steam turbine power generation

Rankine cycle
BT1 Thermodynamic cycles
RT Rankine cycle power systems
RT Steam turbine power

Geopressured Geothermal Bibliography

Use Overburden	See Pressure release
Regulations NT1 Pollution regulations NT1 Zoning RT Agreements RT Compliance RT Deregulation RT Enforcement RT Implementation RT Land leasing RT Laws RT Legal aspects RT Legislation RT Licensing RT Local government RT National government RT Recommendations RT Regulatory guides RT Safety standards RT Specifications RT State government Also see Pollution Also see Pollution law	Reliability RT Failures RT Hazards RT Performance RT Performance testing RT Specifications RT Systems analysis
Regulatory See Recommendations See Regulations	Remote See Aerial surveys See Infrared surveys See Remote control
Regulatory guides RT Recommendations RT Regulations	Remote control BT1 Control RT Monitoring
Rehabilitation See Aquifers	Remote sensing RT Aerial surveys RT Infrared surveys
Reinjection Also see Injection wells Use Artificial recharge	Republics See USSR
Reinjection wells Use Injection wells	Requirements (land) Use Land requirements
Relations See Management See Public opinion See Sociology	Requirements (water) Use Water requirements
Release See Hazards See Isopiestic measurement	Research See Information needs See Planning See Research programs See Reviews See US ERDA
	Research programs RT Demonstration programs RT Information needs RT Planning RT Reviews
	Reserves NT1 Coal reserves NT1 Energy reserves NT1 Natural gas deposits NT1 Petroleum deposits RT Energy supplies RT Exploitation RT Formation testing RT Geothermal resources RT Public lands RT Resources Also see Availability

Also see Coal

Reservoir

See Bottom hole pressure
See Compaction
See Formation thickness
See Gas saturation
See Geopressured reservoirs
See Hydrostatic pressure
See Plugging
See Reservoir engineering
See Reservoir pressure
See Reservoir properties
See Reservoir rocks
See Reservoir temperature
See Well characteristics
See Well information systems
See Well logging

Reservoir characteristics

Use Reservoir properties

Reservoir compaction

Use Compaction

Reservoir description

RT Well information systems
RT Well logging

Reservoir engineering

BT1 Engineering
NT1 Well stimulation
RT Compaction
RT Formation testing
RT Geopressured reservoirs
RT Geothermal reservoirs
RT Hydraulic fracturing
RT Petroleum geology
RT Reservoir properties
RT Reservoir rocks
RT Water reservoirs
RT Well testing

Reservoir fluids

BT1 Fluids
RT Natural gas fields
RT Oil fields

Reservoir mechanics

Use Reservoir engineering

Reservoir pressure

BT1 Reservoir properties
RT Bottom hole pressure
RT Formation testing
RT Geopressured reservoirs
RT Geothermal reservoirs
RT Hydrostatic pressure

RT Production rate

Reservoir properties

NT1 Reservoir pressure
NT1 Reservoir temperature
RT Geopressured reservoirs
RT Geothermal reservoirs
RT Reservoir engineering
RT Subsurface reservoirs
RT Well characteristics
RT Well data
RT Well interference

Reservoir rock

Use Reservoir rocks

Reservoir rocks

BT1 Rocks
NT1 Carbonate rocks
NT1 Fractured reservoirs
RT Gas saturation
RT Interstitial water
RT Natural gas fields
RT Oil fields
RT Oil saturation
RT Plugging
RT Reservoir engineering
RT Sand
RT Water saturation

Reservoir temperature

BT1 Reservoir properties
BT1 Subsurface temperature
RT Bottom hole temperature
RT Geopressured reservoirs
RT Geothermal reservoirs
RT Temperature logging
RT Well characteristics

Reservoir thickness

Use Formation thickness

Reservoirs

See Aquifers
See Fractured reservoirs
See Fresh water
See Geopressured reservoirs
See Geothermal reservoirs
See Magma
See Magma reservoirs
See Magma systems
See Reservoir engineering
See Reservoir pressure
See Reservoir properties
See Reservoir temperature
See Subsurface reservoirs
See Volcanism

Geopressured Geothermal Bibliography

See Water reservoirs

Reservoirs (geothermal)
Use Geothermal reservoirs

Reservoirs (magma)
Use Magma reservoirs

Reservoirs (subsurface)
Use Subsurface reservoirs

Reservoirs (water)
Use Water reservoirs

Residential
See Residential buildings

Residential buildings
BT1 Buildings
NT1 Apartment buildings
NT1 Houses

Residential structures
Use Residential buildings

Resistance
See Corrosion
See Crevice corrosion
See Stainless steels

Resistant
See Corrosion
See Corrosion resistant alloys
See Pitting corrosion

Resistivity
See Electric conductivity
See Induction logging
See Resistivity logging
See Resistivity surveys

Resistivity exploration
Use Resistivity surveys

Resistivity logging
BT1 Electrical logging
BT2 Well logging
NT1 Laterolog
NT1 Microresistivity logging
RT Electrical surveys
RT Induction logging

RT Sp logging

Resistivity method
Use Resistivity surveys

Resistivity surveys
BT1 Electrical surveys
BT2 Geophysical surveys
RT Induction logging

Resonance
See Nuclear magnetic logging
See Nuclear magnetic resonance

Resource
See Availability
See Energy conservation
See Energy consumption
See Exploration
See Geothermal resources
See KGRAs
See Resource assessment
See Resource conservation
See Resource depletion
See Resources

Resource assessment

Resource availability
Use Availability

Resource conservation
RT Energy conservation
RT Resources

Resource depletion
RT Availability
RT Energy consumption
RT Geothermal resources

Resource development
RT Energy source development
RT Resources

Resource location
Use Exploration

Resource potential
RT Energy source development
RT Exploration

RT Resources	See Profits
Resources	
NT1 Geothermal resources	Return on investment
NT1 Mineral resources	Use Profits
NT1 Water resources	
RT Energy supplies	Revenue
RT Natural gas deposits	Use Income
RT Petroleum deposits	
RT Reserves	Reverse faults
RT Resource development	Use Thrust faults
RT Resource potential	
RT Resource conservation	Reversed folds
Also see Availability	Use Overturned folds
Also see Energy resources	
Also see Engineering geology	Reviews
Also see Geologic deposits	BT1 Document types
Also see Geopressure	RT Research programs
resources	
Also see Ground water	Rheology
Also see KGRAs	RT Creep
Also see Mineral rights	RT Deformation
Also see Ownership	RT Fluid flow
Also see Rain water	RT Mechanical properties
Also see Rock mechanics	RT Viscosity
Also see Subsurface waters	
Also see Surface waters	Rhyolite
Also see Water	BT1 Extrusive rocks
Also see Water management	BT2 Igneous rocks
Also see Water reservoirs	
Restoration	Ridges
See Acidization	See Rift valleys
See Aquifers	
See Plugging	Rift
See Well stimulation	See Colorado
Results	See Fault systems
See Data	See Faults
See Document types	See New Mexico
See Experimental results	See Rift valleys
See Field studies	See Rio Grande Rift
See Graphs	See Tectonics
See Tables	
See Theoretical treatments	Rift valleys
Resurgent water	BT1 Geologic structures
Use Juvenile water	RT Continental drift
Retrieval	RT Fault systems
See Information needs	RT Fault zones
See Information systems	RT Faults
Retrofitting	RT Grabens
BT1 Construction	RT Imperial Valley
RT Buildings	RT Ocean ridges
Return	RT Plate tectonics
	RT Rio Grande Rift
	RT Tectonics
	RT Volcanism
	Rights
	See Legal aspects
	See Mineral rights

Geopressured Geothermal Bibliography

See Water resources

Rigs

- See Drill pipes
- See Drilling
- See Drilling equipment
- See Drills
- See Natural gas
- See Petroleum
- See Well drilling

Rio Grande

- BT1 Rivers
- BT2 Streams

Rio Grande Embayment

- BT1 Texas
- BT2 Gulf Coast

Rio Grande Rift

- BT1 North America
- BT2 Continents
- RT Colorado
- RT New Mexico
- RT Rift valleys
- RT Texas

Risk assessment

- RT Energy source development

Risks

- Use Hazards

River

- See Mississippi River
- See Raft River KGRA
- See USSR
- See Volga River

Rivers

- BT1 Streams
- BT2 Surface waters
- NT1 Mississippi River
- NT1 Rio Grande
- NT1 Volga River
- RT Deltas
- RT Drainage systems

RT Estuaries

Rock

- See Aquifers
- See Chemical reactions
- See Compaction
- See Compressibility
- See Drills
- See Ground subsidence
- See Halite
- See Hot dry rock systems
- See Hydrothermal alteration
- See Hydrothermal systems
- See Mechanical properties
- See Reservoir rocks
- See Rock drilling
- See Rock failures
- See Rock matrix
- See Rock mechanics
- See Rock properties
- See Rocks
- See Salt domes
- See Traps

Rock characteristics

- Use Rock properties

Rock compaction

- Use Compaction

Rock compressibility

- Use Compressibility

Rock deformation

- BT1 Deformation
- RT Compression
- RT Ground subsidence
- RT Rock drillability
- RT Rock properties
- RT Rock shear
- RT Rock stresses
- RT Structural geology
- RT Tectonics
- See Diapirism
- See Faulting
- See Folding
- See Salt tectonics

Rock drillability

- BT1 Rock properties
- BT2 Physical Properties
- RT Rock drilling
- RT Rock mechanics
- RT Rock shear
- RT Rock stresses
- RT Rock deformation
- RT Rock failures

RT Well drilling	Use Halite
Rock drilling	Rock shear
BT1 Drilling	BT1 Shear
RT Boreholes	RT Rock deformation
RT Drills	RT Rock drillability
RT Rock drillability	RT Rock mechanics
RT Subterrene penetrators	RT Rock stress
RT Well drilling	RT Rock failures
Rock failures	Rock stresses
BT1 Failures	BT1 Stresses
RT Faults	RT Rock deformation
RT Rock drillability	RT Rock drillability
RT Rock mechanics	RT Rock mechanics
RT Rock shear	RT Rock properties
RT Rock stress	RT Rock shear
RT Rock failures	RT Rock failures
See Formation stress	See Rock pressure
See Rock pressure	See Well bore stress
Rock fluid interactions	Rocks
RT Chemical reactions	NT1 Igneous rocks
RT Hydrothermal alteration	NT1 Metamorphic rocks
RT Hydrothermal systems	NT1 Plutonic rocks
RT Rocks	NT1 Reservoir rocks
Rock matrix	NT1 Sedimentary rocks
Rock mechanics	RT Cap rock
RT Field studies	RT Geological setting
RT Geothermal resources	RT Lithification
RT Ground subsidence	RT Rock fluid interactions
RT Overburden	RT Rock mechanics
RT Rock drillability	RT Rock properties
RT Rock shear	RT Traps
RT Rock stresses	Also see Aphanitic rocks
RT Rock failures	Also see Carbonate minerals
RT Rock properties	Also see Carbonate rocks
RT Rocks	Also see Clastic rocks
RT Soil mechanics	Also see Dolomite
Rock properties	Also see Dolomite rocks
BT1 Physical properties	Also see Evaporites
NT1 Rock drillability	Also see Extrusive rocks
RT Chemical composition	Also see Gas saturation
RT Fracture properties	Also see Hot dry rock
RT Hydrologic properties	systems
RT Mechanical properties	Also see Intrusive rocks
RT Permeability	Also see Nonclastic rocks
RT Porosity	Also see Petrology
RT Rock deformation	Also see Phaneritic rocks
RT Rock stresses	Also see Plugging
RT Rock mechanics	Also see Porphyritic rocks
RT Rocks	Also see Pyroclastic rocks
RT Sand shale ratio	Also see Sedimentary
Rock salt	petrology
	Also see Texas

Geopressured Geothermal Bibliography

Also see Volcanism	RT Safety
Rotary See Rotary drilling	Safety standards BT1 Standards RT Legal aspects RT Licensing RT Recommendations RT Regulations RT Safety
Rotary drilling BT1 Well drilling BT2 Drilling	Saint Mary Parish Use St Mary Parish
Royalties RT Cost RT Income RT Investment RT Licensing RT Patents	Sales Use Trade
Rubidium BT1 Alkali metals BT2 Metals	Saline See Brines See Saline aquifers See Salt water See Waste disposal
Rural See Rural populations	Saline aquifers BT1 Aquifers BT2 Subsurface reservoirs RT Aquiclude RT Brines RT Salts RT Waste disposal
Rural areas RT Rural populations	Saline water Use Salt water
Rural populations BT1 Human populations BT2 Populations RT Rural areas	Salinity BT1 Chemical properties RT Brackish water RT Brines RT Chemical composition RT Corrosion RT Desalination RT Dissolved solids RT Estuaries RT Salt water RT Salts RT Sea water RT Solutions
S waves Use Seismic s waves	Salt See Anticlines See Halite See Radioactive wastes See Salinity See Salt deposits See Salt domes See Salt tectonics See Salt water
Safeguards RT Inspection RT Legal aspects	
Safety RT Accidents RT Blowouts RT Failures RT Fire hazards RT Flammability RT Hazards RT Health hazards RT Injuries RT Personnel RT Safety engineering RT Safety standards RT Working conditions Also see Legal aspects Also see Regulations Also see Safety standards	
Safety engineering	

See Water production

Salt content
Use Salinity

Salt deposits
BT1 Geologic deposits
NT1 Salt domes
RT Anticlines
RT Radioactive wastes
RT Underground disposal
RT Waste disposal

Salt domes
BT1 Salt deposits
BT2 Geologic deposits
RT Cap rock
RT Diapirism
RT Diapirs
RT Folds
RT Natural gas deposits
RT Petroleum deposits
RT Salt tectonics
RT Salts

Salt tectonics
BT1 Rock deformation
BT2 Deformation
RT Creep
RT Salt domes
RT Structural geology

Salt water
BT1 Water
NT1 Sea water
RT Brackish water
RT Brines
RT Drilling fluids
RT Fresh water
RT Salinity
RT Surface waters

Salt water production
Use Water production

Salton Sea
BT1 Lakes
BT2 Surface waters
BT1 Imperial Valley

BT2 California

Salts
NT1 Dissolved salts
RT Brines
RT Desalination
RT Dissolved solids
RT Halite
RT Saline aquifers
RT Salinity
RT Salt domes

Samarium
BT1 Rare earths
BT2 Metals

Sampling
NT1 Downhole sampling
NT1 Fluid sampling
RT Formation testing
RT Inspection
RT Measuring methods
RT Sampling methods
RT Testing

Sampling methods
RT Sampling

San Andreas Fault
BT1 California
BT2 USA
BT3 North America

San Joaquin
See San Joaquin Valley

San Joaquin Valley
BT1 California
BT2 USA
BT3 North America

Sand
RT Clay
RT Clay minerals
RT Reservoir rocks
RT Sandstone
RT Sediment deposits
Also see Facies maps
Also see Formation thickness
Also see Gravel packing
Also see Net sand maps
Also see Reservoir pressure
Also see Sand percent maps
Also see Sand production
Also see Sand trend maps

Sand control
RT Gravel packing

Geopressured Geothermal Bibliography

RT Sand production

Sand percent maps
BT1 Facies maps
BT2 Stratigraphic maps
RT Net sand maps
RT Sand trend maps

Sand pressure
Use Reservoir pressure

Sand production
BT1 Production
RT Sand control
RT Sediments

Sand shale ratio
BT1 Rock composition
BT2 Composition
RT Facies
RT Rock properties
RT Sandstone

Sand thickness
Use Formation thickness

Sand trend maps
BT1 Trend maps
BT2 Stratigraphic maps
RT Facies maps
RT Net sand maps
RT Sand percent maps

Sandstone
BT1 Clastic rocks
BT2 Sedimentary rocks
RT Compaction
RT Interstitial water
RT Quartz
RT Sand shale ratio
RT Sand
RT Sediment deposits
RT Siltstone

Sandstones
Use Sandstone

Saturated
See Liquids
See Saturated vapor
See Vapors

Saturated vapor
RT Liquids

RT Vapors

Saturation
NT1 Gas saturation
RT Chemical composition
RT Chemical equilibrium
RT Precipitation
RT Solubility
RT Solutions
RT Supersaturation
Also see Oil saturation
Also see Reservoir rocks

Scale
See Scale monitoring
See Scaling
See Scaling control

Scale composition
RT Scale monitoring
RT Scaling
RT Scaling control

Scale monitoring
BT1 Monitoring
RT Descaling
RT Scale composition
RT Scaling control

Scaling
BT1 Corrosion
BT2 Chemical reactions
RT Fouling
RT Plugging
RT Scale composition
RT Scaling control
RT Stress corrosion
Also see Scale monitoring
Also see Scaling control

Scaling control
BT1 Control
RT Scale composition
RT Scale monitoring
RT Scaling

Schist
BT1 Metamorphic rocks
BT2 Rocks

Schists

Use Schist

Scrubbers

BT1 Pollution control equipment
BT2 Equipment
RT Air pollution
RT Air pollution abatement
RT Scrubbing
RT Waste processing

Scrubbing

RT Acidization
RT Scrubbers
RT Washing

Sea

See Arabian Sea
See Caribbean Sea
See Caspian Sea
See Earth crust
See Marine geology
See North Sea
See Ocean thermal power plants
See Oceanic crust
See Plate tectonics
See Salinity
See Salton Sea
See Sea bed
See Sea floor spreading
See Sea water
See Seas
See Sediments
See Shores
See Solutions
See South China Sea
See Surface waters
See USSR

Sea bed

RT Earth crust
RT Marine geology
RT Seas
RT Sediments
RT Soil mechanics

Sea coast

Use Shores

Sea floor

Use Sea bed

Sea floor spreading

RT Earth crust
RT Oceanic crust
RT Plate tectonics

RT Seas

Sea water

BT1 Salt water
BT2 Water
RT Brines
RT Desalination
RT Estuaries
RT Salinity
RT Seas
RT Solutions
RT Surface waters

Seals

RT Pipe fittings

Seas

BT1 Surface waters
NT1 Atlantic Ocean
NT1 Indian Ocean
NT1 Pacific Ocean
RT Bays
RT Coastal waters
RT Continental slopes
RT Estuaries
RT Marine geology
RT Oceanography
RT Offshore sites
RT Sea bed
RT Sea floor spreading
RT Sea water
RT Shores
RT Tide

Seasonal

See Seasons

Seasonal variations

RT Seasons

Seasons

RT Atmospheric precipitations
RT Climates
RT Meteorology
RT Seasonal variations
RT Weather

Sections

See Geologic cross sections
See Geologic structures

Sediment

Geopressured Geothermal Bibliography

See **Sediment deposits**

Sediment deposits

BT1 Sediments
NT1 Alluvial deposits
RT Alluvium
RT Deltas
RT Geologic deposits
RT Mudstone
RT Sand
RT Sandstone
RT Sedimentation
RT Sedimentology
RT Siltstone

Sedimentary

See **Geologic structures**
See **Sedimentary basins**
See **Sedimentary petrology**
See **Sedimentary rocks**
See **Sedimentation**
See **Sedimentology**
See **Sediments**
See **Stratigraphy**

Sedimentary basins

BT1 Basins
BT2 Geologic structures
RT Sediments
RT Stratigraphy

Sedimentary petrology

BT1 Petrology
BT2 Geology
RT Deposition
RT Sedimentary rocks
RT Sedimentary structures
RT Sedimentation
RT Sedimentology
RT Stratigraphy

Sedimentary rocks

BT1 Rocks
NT1 Clastic rocks
NT1 Limestone
NT1 Nonclastic rocks
RT Argillaceous rocks
RT Carbonate rocks
RT Lithification
RT Lithology
RT Sedimentary petrology

RT **Sedimentology**

Sedimentary structures

RT Geologic structures
RT Sedimentary petrology
RT Sedimentation
RT Sedimentology
RT Sediments
RT Stratigraphy

Sedimentation

BT1 Geologic processes
RT Accumulation rate
RT Burial
RT Deltas
RT Deposition
RT Depositional environment
RT Particles
RT Sediment deposits
RT Sedimentary petrology
RT Sedimentary structures
RT Sediments

Sedimentation rate

Use **Accumulation rate**

Sedimentology

BT1 Geology
RT Lithification
RT Paleontology
RT Sediment deposits
RT Sedimentary petrology
RT Sedimentary rocks
RT Sedimentary structures
RT Sediments

Sediments

NT1 Sediment deposits
RT Alluvium
RT Argillaceous rocks
RT Catagenesis
RT Deltas
RT Depositional environment
RT Geologic deposits
RT Lithification
RT Sand production
RT Sea bed
RT Sedimentary basins
RT Sedimentary structures
RT Sedimentation

RT Sedimentology

Seismic

See Microseisms
See Seismic detection
See Seismic effects
See Seismic events
See Seismic p waves
See Seismic reflection surveys
See Seismic refraction surveys
See Seismic s waves
See Seismic surveys
See Seismic waves
See Seismology

Seismic detection

RT Seismic s waves
RT Seismicity
RT Sonic logging

Seismic effects

RT Seismic events
RT Seismicity
RT Shock waves

Seismic events

NT1 Earthquakes
RT Ground motion
RT Nuclear explosions
RT Seismic effects
RT Seismic waves

Seismic noise

RT Microseisms

Seismic p waves

BT1 Seismic waves
RT Seismic s waves
RT Seismicity

Seismic reflection surveys

BT1 Seismic surveys
BT2 Geophysical surveys
RT Seismic refraction surveys

Seismic refraction surveys

BT1 Seismic surveys
BT2 Geophysical surveys
RT Seismic reflection

surveys

Seismic s waves

BT1 Seismic waves
RT Earthquakes
RT Seismic detection
RT Seismic p waves
RT Seismic surveys
RT Underground explosions

Seismic surveys

BT1 Geophysical surveys
BT2 Exploration methods
NT1 Seismic reflection surveys
NT1 Seismic refraction surveys
RT Geothermal exploration
RT Seismic s waves

Seismic waves

NT1 Microseisms
NT1 Rayleigh waves
NT1 Seismic p waves
NT1 Seismic s waves
RT Earth movements
RT Earthquakes
RT Seismic events
RT Seismicity
RT Seismology
RT Shock waves
RT Travel time

Seismicity

RT Seismic detection
RT Seismic effects
RT Seismic p waves
RT Seismic waves
RT Seismology

Seismographs

BT1 Measuring instruments

Seismology

RT Earth movements
RT Earthquakes
RT Geology
RT Microseisms
RT Seismic waves
RT Seismicity
RT Shock waves

Selection

See Environment
See Meteorology
See Planning

Geopressured Geothermal Bibliography

See Site selection

Selenium

BT1 Semimetals
BT2 Elements

Self potential logging

Use Sp logging

Self potential surveys

BT1 Electrical surveys
BT2 Geophysical surveys
RT Sp logging

Semimetals

BT1 Elements
NT1 Arsenic
NT1 Boron
NT1 Selenium
NT1 Silicon
NT1 Tellurium

Semipermeable

See Semipermeable membranes

Semipermeable membranes

RT Electrodialysis
RT Osmosis
RT Osmotic pressure
RT Permeability
RT Porous media

Sensing

Also see Aerial surveys
Also see Infrared surveys
Use Detection

Sensitivity

RT Accuracy
RT Calibration
RT Measuring instruments
RT Measuring methods

Separation

See Refining
See Separation processes

Separation processes

NT1 Chromatography
NT1 Demineralization
NT1 Electrodialysis
NT1 Filtration
NT1 Ion exchange
NT1 Leaching
NT1 Precipitation
RT Adsorption
RT Chemisorption
RT Refining

RT Steam separators

Separators

Also see Separation processes
Also see Steam condensers
Also see Vapors
Use Steam separators
Use Vapor separators

Sericite

BT1 Micas
BT2 Silicate minerals

Serpentine

Use Serpentine

Serpentine

BT1 Silicate minerals
BT2 Minerals

Setting

See Field studies
See Geologic structures
See Geological surveys
See Hydrology
See Minerals
See Rocks

Shale

BT1 Clastic rocks
BT2 Sedimentary rocks
NT1 Oil shale
RT Mudstone
RT Sand shale ratio
RT Siltstone
Also see Fossil fuels
Also see Shale control
Also see Shale diapirs
Also see Water influx

Shale control

BT1 Control

Shale diapirs

BT1 Diapirs
BT2 Anticlines
NT1 Mud lumps
NT1 Mud volcanoes

Shale treatment

Use Shale control

Shale water influx

Use Water influx

Shear

BT1 Stresses
NT1 Rock shear
RT Tensile properties
Also see Rock failures
Also see Seismic s waves
Also see Shear properties

Shear properties

BT1 Mechanical properties

Shear strength

Use Shear properties

Shear stress

BT1 Stresses
RT Mechanical properties

Shear waves

Use Seismic s waves

Shelf

See Coastal waters
See Continents
See Marine geology

Shelters

See Animal shelters
See Farm buildings

Shock waves

RT Earthquakes
RT Explosions
RT Ground motion
RT Seismic effects
RT Seismic waves
RT Seismology

Shooting

See Explosive stimulation

Shores

RT Coastal regions
RT Coastal waters
RT Lakes
RT Offshore sites
RT Seas

Shortite

BT1 Carbonate minerals
BT2 Minerals
BT1 Sodium minerals
BT2 Minerals

Shut in pressure

Use Reservoir pressure

Siderite

BT1 Carbonate minerals
BT2 Minerals

Silica

See Silica minerals

Silica minerals

BT1 Minerals
NT1 Chalcedony
NT1 Cristobalite
NT1 Opal
NT1 Quartz
NT1 Tridymite
RT Silicate minerals

Silicate

See Silica minerals
See Silicate minerals

Silicate minerals

BT1 Minerals
NT1 Amphiboles
NT1 Chlorite minerals
NT1 Clay minerals
NT1 Epidotes
NT1 Feldspars
NT1 Micas
NT1 Pyrophyllite
NT1 Pyroxenes
NT1 Serpentines
NT1 Zeolites
RT Silica minerals

Silicon

BT1 Semimetals
BT2 Elements

Sill intrusions

BT1 Concordant intrusions
BT2 Igneous intrusions

Silt

See Sand production

Silt production

Use Sand production

Siltstone

BT1 Clastic rocks
BT2 Sedimentary rocks
RT Mudstone
RT Quartz
RT Sandstone
RT Sediment deposits

Geopressured Geothermal Bibliography

- RT Shale
 - See Lateral faults
- Silurian
 - See Silurian Period
- Silurian Period
 - BT1 Paleozoic Era
 - BT2 Geologic times
- Silver
 - BT1 Transition elements
 - BT2 Metals
 - Also see Silver inorganic compounds
- Silver inorganic compounds
- Simulation
 - NT1 Computerized simulation
 - RT Computer codes
 - RT Functional models
 - RT Mathematical models
 - RT Systems analysis
- Site
 - See Environment
 - See Meteorology
 - See Planning
 - See Site selection
- Site preparation
 - RT Site selection
- Site selection
 - RT Accidents
 - RT Archaeological sites
 - RT Environment
 - RT Licensing
 - RT Meteorology
 - RT Offshore sites
 - RT Planning
 - RT Site preparation
- Sites
 - See Coastal waters
 - See Offshore sites
 - See Seas
 - See Shores
 - See Site selection
- Size
 - See Hole diameter
- Slate
 - BT1 Metamorphic rocks
 - BT2 Rocks
- Slip
- Slope
 - See Slope stability
- Slope stability
 - RT Soil mechanics
- Slopes
 - See Continents
 - See Marine geology
 - See Oceanic crust
 - See Seas
- Slurry packing
- Smackover Formation
 - RT Louisiana
 - RT Mississippi
 - RT Texas
- Snow
 - BT1 Atmospheric precipitations
 - BT2 Meteorology
 - RT Frost
 - RT Rain
 - RT Storms
- Social
 - See Sociology
 - See Socio-economic factors
- Social impact
 - RT Sociology
 - RT Socio-economic factors
- Socio-economic
 - See Economics
 - See Socio-economic factors
- Socio-economic factors
 - RT Communities
 - RT Economic impact
 - RT Economics
 - RT Human populations
 - RT Social impact
 - RT Sociology
- Sociology
 - NT1 Demography
 - RT Human populations
 - RT Public relations
 - RT Regional analysis
 - RT Social impact
 - RT Socio-economic factors

RT Urban populations

Sodium
BT1 Alkali metals
BT2 Metals
Also see Sodium chlorides
Also see Sodium inorganic compounds
Also see Sodium minerals
Also see Sodium sulfates

Sodium chlorides
BT1 Sodium inorganic compounds
BT1 Chlorides
BT2 Chlorine inorganic compounds
RT Halite

Sodium inorganic compounds
NT1 Sodium chlorides
NT1 Sodium sulfates

Sodium minerals
BT1 Minerals
NT1 Shortite

Sodium sulfates
BT1 Sodium inorganic compounds
BT1 Sulfates
BT2 Oxygen inorganic compounds

Soil
See Agriculture
See Consolidation
See Field studies
See Mechanical properties
See Rock mechanics
See Sea bed
See Slope stability
See Soils

Soil mechanics
RT Consolidation
RT Field studies
RT Mechanical properties
RT Rock mechanics
RT Sea bed
RT Slope stability
RT Soils

Soil warming

RT Agriculture

Soils
NT1 Permafrost
RT Agriculture
RT Soil mechanics

Solar
See Ocean thermal power plants
See Solar energy
See Solar energy conversion
See Solar power plants

Solar energy
BT1 Energy
RT Solar energy conversion
RT Solar power plants

Solar energy conversion
BT1 Energy conversion
BT2 Conversion
NT1 Ocean thermal energy conversion
RT Solar energy

Solar power plants
BT1 Power plants
RT Solar energy

Solar sea power plants
Use Ocean thermal power plants

Solid solutions
BT1 Solutions

Solid wastes
BT1 Wastes
NT1 Mineral wastes
RT Chemical effluents
RT Dissolved solids
RT Organic matter
RT Waste disposal

Solidification
RT Crystallization

Solids
NT1 Dissolved solids
RT Crystals
RT Dispersions
Also see Plugging
Also see Waste disposal

Geopressured Geothermal Bibliography

Also see Water analysis	See Sound waves
Solubility BT1 Chemical properties NT1 Vapor solubility RT Dissolved gases RT Dissolved solids RT Leaching RT Precipitation RT Saturation RT Solutions RT Solvents RT Supersaturation	Sonic logging BT1 Well logging RT Acoustic monitoring RT Cement bond logging RT Seismic detection RT Sound velocity RT Sound waves
Solution See Dissolved gases See Mathematical models See Mathematics See Numerical analysis See Numerical solution	Sonic velocity Use Sound velocity
Solution gases Use Dissolved gases	Sound Also see Sound velocity Use Sound waves
Solutions NT1 Aqueous solutions NT1 Brines NT1 Nonaqueous solutions NT1 Solid solutions RT Concentration dependence RT Corrosion RT Dissolved gases RT Dissolved solids RT Infinite dilution RT Interstitial water RT Mixtures RT Salinity RT Saturation RT Sea water RT Solubility RT Solvents RT Supersaturation Also see Empirical equations Also see Low concentration	Sound velocity BT1 Velocity RT Sonic logging RT Sound waves
Solvents RT Solubility RT Solutions	Sound waves RT Noise RT Sonic logging RT Sound velocity
Sonic See Acoustic monitoring See Cement bond logging See Seismic detection See Sonic logging See Sound velocity	Sources See Energy See Energy sources See Heat flow See Heat sources
	South America BT1 Continents
	South China Sea BT1 Pacific Ocean BT2 Seas
	Soviet See USSR
	Soviet Union Use USSR
	Sp See Induction logging See Resistivity logging See Sp logging
	Sp logging BT1 Electrical logging BT2 Well logging RT Induction logging RT Resistivity logging

RT Self potential surveys

Space

- See Direct energy utilization
- See District heating
- See Electric heating
- See Geothermal space heating
- See Hot water heating
- See Space heating

Space heating

- BT1 Heating
- NT1 Geothermal space heating
- RT Central heating plants
- RT Direct energy utilization
- RT District heating
- RT Electric heating
- RT Hot water heating

Spacing

- See Drawdown
- See Geopressured wells
- See Geopressured zones
- See Geothermal fields
- See Geothermal wells
- See Natural gas fields
- See Oil fields
- See Oil wells
- See Well interference
- See Wells

Specific

- See Specific heat

Specific heat

- BT1 Thermodynamic properties
- BT2 Physical properties
- RT Heat budget

Specifications

- RT Design
- RT Inspection
- RT Patents
- RT Regulations
- RT Reliability
- RT Standardization
- RT Standards

Spectrometric

- See Gamma spectroscopy
- See Spectrometric surveys
- See Spectroscopy

Spectrometric surveys

- BT1 Geophysical surveys
- BT2 Exploration methods
- RT Gamma spectroscopy

RT Spectroscopy

Spectroscopy

- BT1 Chemical analysis methods
- BT2 Measuring methods
- RT Spectrometric surveys
- Also see Absorption spectroscopy
- Also see Emission spectroscopy
- Also see Gamma spectroscopy

Sphalerite

- BT1 Sulfide minerals
- BT2 Minerals

Sphalerites

- Use Sphalerite

Spontaneous potential logging

- Use Sp logging

Spreading

- See Earth crust
- See Oceanic crust
- See Plate tectonics
- See Sea floor spreading
- See Seas

Springs

- See Coso Hot Springs KGRA
- See Ground water
- See Hot springs
- See Hydrothermal systems
- See Mineral springs
- See Thermal springs
- See Thermal waters
- See Warm springs
- See Water springs

Springs (water)

- Use Water springs

St Mary Parish

- BT1 Louisiana
- BT2 Gulf Coast

Stability

- Use Slope stability

Stack

- See Gaseous wastes
- See Stack disposal

Stack disposal

- BT1 Waste disposal
- BT2 Waste management

Geopressured Geothermal Bibliography

RT Gaseous wastes

Stage
See Hydrothermal alteration
See Hydrothermal systems
See Magma
See Volcanism

Stainless
See Corrosion protection
See Crevice corrosion
See Stainless steels

Stainless steels
BT1 Steels
 BT2 Alloys
BT1 Corrosion resistant
 alloys
RT Corrosion protection
RT Corrosion resistance
RT Crevice corrosion

Standard pressure
RT Pressure dependence

Standard temperature
RT Temperature dependence

Standardization
RT Specifications
RT Standards

Standards
NT1 Safety standards
RT Compliance
RT Specifications
RT Standardization
Also see Legal aspects
Also see Regulations
Also see Safety

Starr County
BT1 Texas

BT2 Gulf Coast

State
See Crystallization
See Government policies
See National government
See Regulations
See State government

State government
RT Government policies
RT Legislation
RT Local government
RT National government
RT Regulations

Statements
See Environmental impact
 statement

States
See USA

Static pressure
See Hydrostatic pressure

Static reservoir pressure
Use Reservoir pressure

Statistical
See Mathematics
See Statistical models

Statistical models
BT1 Mathematical models
 BT2 Models

RT Mathematics

Steam

RT Condensates
RT Flashing
RT Gas ejectors
RT Steam generators
RT Steam system
RT Superheating
RT Water
RT Water vapor
Also see Flashed steam systems
Also see Geothermal heating
Also see Geothermal resources
Also see Geothermal energy conversion
Also see Heat exchangers
Also see Heat transfer
Also see Hot water systems
Also see Hydrothermal systems
Also see Natural steam
Also see Separation processes
Also see Steam condensers
Also see Steam generators
Also see Steam heating
Also see Steam power plants
Also see Steam separators
Also see Steam turbines
Also see Steam turbine power generation
Also see Thermodynamic cycles
Also see Vapor dominated systems

Steam condensers

BT1 Vapor condensers
BT2 Condensers
RT Heat exchangers
RT Heat transfer
RT Steam separators

Steam flashing

Use Flashing

Steam generators

BT1 Vapor generators
RT Boiling
RT Heat exchangers
RT Heat transfer
RT Steam

Steam heating

BT1 Heating

RT Geothermal heating

Steam power plants

BT1 Thermal power plants
BT2 Power plants
RT Steam turbines
RT Steam turbine power generation

Steam separators

BT1 Vapor separators
RT Separation processes
RT Steam condensers

Steam system

RT Steam

Steam turbine power generation

BT1 Turbines
RT Rankine cycle
RT Steam power plants
RT Steam turbines

Steam turbines

BT1 Turbines
RT Steam power plants
RT Steam turbine power generation

Steels

BT1 Alloys
NT1 Carbon steels
NT1 Stainless steels
Also see Corrosion protection
Also see Crevice corrosion
Also see Stainless steels

Stem

See Drill stem testing

Stimulation

Also see Explosive stimulation
Also see Hydraulic fracturing
Also see Plugging
Also see Wells
Use Well stimulation

Stock

See Batholiths
See Discordant intrusions
See Stock intrusions

Stock intrusions

BT1 Igneous intrusions
RT Batholiths

Geopressured Geothermal Bibliography

RT Discordant intrusions

Storage
NT1 Energy storage
Also see Direct energy utilization
Also see Heat storage
Also see Waste storage

Stored energy
BT1 Energy
RT Energy storage
RT Heat storage

Storms
NT1 Hurricanes
RT Atmospheric precipitations
RT Hazards
RT Meteorology
RT Rain
RT Snow
RT Weather
RT Wind

Strain
See Strain rate
See Strains
See Tensile properties

Strain rate
BT1 Rates
RT Strains
RT Tensile properties

Strains
RT Consolidation
RT Deformation
RT Displacements
RT Elasticity
RT Strain rate
RT Stresses
RT Tensile properties

Strata
BT1 Geologic structures
RT Overburden
RT Stratigraphy

Stratigraphic
See Geologic control
See Stratigraphic maps
See Stratigraphic traps

Stratigraphic control

Use Geologic control

Stratigraphic maps
BT1 Maps
BT2 Document types
NT1 Facies maps
NT1 Isochore maps
NT1 Isopach maps
NT1 Trend maps
RT Stratigraphy

Stratigraphic traps
BT1 Traps
BT2 Geologic structures
RT Natural gas deposits
RT Permeability barrier
RT Petroleum deposits
RT Stratigraphy
RT Structural traps

Stratigraphy
NT1 Biostratigraphy
RT Formation thickness
RT Geologic structures
RT Geology
RT Paleontology
RT Petroleum geology
RT Sedimentary basins
RT Sedimentary petrology
RT Sedimentary structures
RT Strata
RT Stratigraphic maps
RT Stratigraphic traps
RT Zonation

Stratosphere
BT1 Earth atmosphere
RT Troposphere

Streams
BT1 Surface waters
NT1 Rivers

Strength
See Shear properties
See Tensile properties

Strength (shear)
Use Shear properties

Stress
See Pore pressure
See Rock failures
See Stress corrosion

Stress corrosion
BT1 Corrosion
BT2 Chemical reactions

RT Scaling	RT Structural geology
Stresses NT1 Shear NT1 Shear stress RT Materials testing RT Mechanical properties RT Strains RT Tensile properties RT Thermoelasticity	Structure See Earth planetary structure
Strike slip faults Use Lateral faults	Structures Also see Crystallography Also see Geologic structures Also see Residential buildings Also see Sedimentary petrology Also see Sedimentation Also see Sedimentology Also see Sediments Also see Stratigraphy Use Buildings
Strontium BT1 Alkaline earth metals BT2 Metals Also see Strontium inorganic compounds	Structures (geologic) Use Geologic structures
Strontium inorganic compounds	
Structural See Geanticlines See Geologic control See Geologic structures See Mathematical models See Stratigraphic traps See Structural models See Structural traps	Studies See Comparative evaluations See Economics See Experimental results See Exploration methods See Feasibility studies See Field studies See Geology See Hydrology See Rock mechanics
Structural control Use Geologic control	
Structural features Use Geologic structures	Submarine See Marine geology See Submarine trenches
Structural geology RT Geanticlines RT Rock deformation RT Salt tectonics RT Sedimentary structures RT Structural traps RT Uplifts	Submarine geology Use Marine geology
Structural models BT1 Models RT Mathematical models	Submarine trenches RT Benioff zones
Structural traps BT1 Traps BT2 Geologic structures RT Natural gas deposits RT Petroleum deposits RT Stratigraphic traps	Subnormal formation pressure
	Subnormal pressure Use Subnormal formation pressure
	Subpressure Use Subnormal formation pressure
	Subsidence Also see Compaction Also see Consolidation

Geopressured Geothermal Bibliography

Use Ground subsidence

Subsidies
BT1 Financial incentives
RT Economics
RT Financing

Subsurface
See Exploration methods
See Hydrogeology
See Reservoir properties
See Subsurface reservoirs
See Subsurface temperature
See Subsurface waters
See Underground disposal
See Water

Subsurface disposal
Use Underground disposal

Subsurface mapping
RT Exploration methods

Subsurface reservoirs
NT1 Aquifers
NT1 Geothermal reservoirs
NT1 Magma reservoirs
RT Reservoir properties
RT Subsurface waters
RT Well interference

Subsurface temperature
NT1 Reservoir temperature

Subsurface waters
NT1 Artesian water
NT1 Capillary water
NT1 Free water
NT1 Ground water
NT1 Juvenile water
NT1 Vadose water
RT Artesian aquifers
RT Brackish water
RT Hydrogeology
RT Subsurface reservoirs
RT Water
RT Water resources

Subterrene
See Earth penetrators
See Rock drilling
See Subterrene penetrators

See Well drilling

Subterrene penetrators
BT1 Penetrators
RT Boreholes
RT Earth penetrators
RT Rock drilling
RT Well drilling

Sugar
See Sugar cane

Sugar cane
BT1 Plants
BT2 Biomass

Sulfate
See Sulfate minerals
See Sulfates

Sulfate minerals
BT1 Minerals
NT1 Alunite
NT1 Anhydrite
NT1 Barite
NT1 Gypsum
RT Sulfates

Sulfates
BT1 Oxygen inorganic compounds
BT1 Sulfur inorganic compounds
NT1 Barium sulfates
NT1 Calcium sulfates
NT1 Magnesium sulfates
NT1 Sodium sulfates
RT Sulfate minerals
Also see Barium sulfates
Also see Calcium sulfates
Also see Magnesium sulfates
Also see Sodium sulfates

Sulfide
See Sulfide minerals
See Sulfides

Sulfide minerals
BT1 Minerals
NT1 Chalcopyrite
NT1 Galena
NT1 Pyrite
NT1 Sphalerite

RT Sulfides

Sulfides

BT1 Sulfur inorganic compounds
NT1 Hydrogen sulfides
RT Sulfide minerals
Also see Air pollution
Also see Dissolved gases
Also see Environmental effects
Also see Hydrogen sulfides

Sulfur

BT1 Nonmetals
BT2 Elements
RT Frasch sulfur process
Also see Sulfur inorganic compounds

Sulfur inorganic compounds

NT1 Sulfates
NT1 Sulfides

Superheating

BT1 Heating
RT Steam

Supersaturation

RT Precipitation
RT Saturation
RT Solubility
RT Solutions

Supplies

See Energy balance
See Energy consumption
See Energy demand
See Energy sources
See Energy storage
See Energy yield
See Reserves
See Resources

Surface

See Atmospheric precipitations
See Environment
See Oceanography
See Plankton
See Salt water
See Surface disposal
See Surface equipment
See Surface properties
See Surface temperature
See Surface waters
See Trend analysis

See Water

Surface disposal

BT1 Waste disposal
BT2 Waste management

Surface equipment

BT1 Equipment
NT1 Collecting tanks
NT1 Injection pumps
NT1 Transfer pipes
RT Wates disposal

Surface monitoring

Surface properties

RT Adsorption
RT Capillary pressures
RT Chemical properties
RT Corrosion
RT Physical properties

Surface temperature

Surface waters

NT1 Coastal waters
NT1 Estuaries
NT1 Lakes
NT1 Seas
NT1 Streams
NT1 Swimming pools
NT1 Water reservoirs
RT Atmospheric precipitations
RT Environment
RT Fishes
RT Floods
RT Hydrology
RT Hydrosphere
RT Limnology
RT Liquid wastes
RT Oceanography
RT Plankton
RT Salt water
RT Sea water
RT Water
RT Water resources

Surpressure

Geopressured Geothermal Bibliography

Use Geopressure

Surveys

See Aerial surveys
See Electrical logging
See Electrical surveys
See Electromagnetic surveys
See Gamma ray surveys
See Gamma spectroscopy
See Geochemical surveys
See Geological surveys
See Geophysical surveys
See Geothermal exploration
See Geothermal gradient surveys
See Gravimetry
See Gravitation
See Gravity logging
See Gravity surveys
See Heat flow surveys
See Induction logging
See Infrared surveys
See Magnetic surveys
See Magnetotelluric surveys
See Marine surveys
See Radioactivity surveys
See Radiometric surveys
See Resistivity logging
See Resistivity surveys
See Seismic reflection surveys
See Seismic refraction surveys
See Seismic s waves
See Seismic surveys
See Self potential surveys
See Sp logging
See Spectrometric surveys
See Spectroscopy
See Telluric surveys
See Temperature surveys
See Well logging

Suspended

See Dissolved solids
See Plugging
See Waste disposal

Suspended solids

RT Dissolved solids
RT Plugging
RT Waste disposal

Swimming pools

BT1 Surface waters

Symposia

Use Meetings

Synclines

BT1 Folds
BT2 Geologic structures
NT1 Geosynclines
RT Synclinoria

Synclinoria

BT1 Fold systems
BT2 Geologic structures
RT Geosynclines
RT Synclines

Synthetic fuels

BT1 Fuels
RT Fuel gas

Systems

See Binary cycle power systems
See Cooling systems
See Data acquisition systems
See Failures
See Fault blocks
See Fault systems
See Flashed steam systems
See Fold systems
See Gas turbine power generation
See Geopressured systems
See Geopressured zones
See Geothermal systems
See Geothermal energy conversion
See Hot dry rock systems
See Hot water systems
See Hydrology
See Hydrothermal systems
See Information needs
See Information systems
See Magma
See Magma systems
See Measuring instruments
See Monitoring
See Power generation
See Rankine cycle
See Rivers
See Simulation
See Systems analysis
See Thermodynamic cycles
See Vapor dominated systems
See Well information systems

See Well logging

Systems analysis
RT Failures
RT Reliability
RT Simulation

Tabasco
BT1 Mexico
BT2 North America
RT Gulf Coast

Table
See Aquifers
See Ground water
See Ground water recharge
See Water springs
See Water table

Tables
BT1 Information
RT Data
RT Document types
RT Experimental results
RT Graphs

Tanks
See Collecting tanks

Taxes
RT Economics
RT Financial incentives
RT Trade

Technical
See Specifications

Technical specifications
Use Specifications

Techniques
See Agriculture
See Cultivation techniques
See Measuring methods

Technology
See Commercialization
See Feasibility studies

See Industry

Technology assessment
RT Feasibility studies
RT Industry

Technology utilization
RT Commercialization
RT Feasibility studies
RT Industry

Tectonics
BT1 Geology
NT1 Plate tectonics
RT Convection cells
RT Diastrophism
RT Rift valleys
RT Rock deformation
RT Uplifts
Also see Earth crust
Also see Rift valleys
Also see Salt tectonics
Also see Volcanism

Tectonism
Use Diastrophism

Telluric
See Telluric surveys

Telluric current exploration
Use Telluric surveys

Telluric surveys
BT1 Electrical surveys
BT2 Geophysical surveys
RT Geothermal exploration

Tellurium
BT1 Semimetals

Geopressured Geothermal Bibliography

BT2 Elements

Temperature

See Bottom hole temperature
See Elevated temperature
See Geopressured reservoirs
See Geothermometers
See Geothermometry
See Heat
See High temperature
See Isotherm
See Low temperature
See Measuring instruments
See Moderate temperature
See Physical properties
See Reservoir temperature
See Standard temperature
See Subsurface temperature
See Surface temperature
See Temperature control
See Temperature distribution
See Temperature effects
See Temperature gradients
See Temperature logging
See Temperature measurement
See Temperature monitoring
See Temperature surveys
See Thermal insulation
See Transition temperature
See Well characteristics
See Well head temperature
See Wells

Temperature (<25 deg c)

Use Low temperature

Temperature (>400 deg c)

Use High temperature

Temperature (bottom hole)

Use Bottom hole temperature

Temperature (reservoir)

Use Reservoir temperature

Temperature (surface)

Use Surface temperature

Temperature (well head)

Use Well head temperature

Temperature (101-400 deg c)

Use Elevated temperature

Temperature (25 deg c)

Use Standard temperature

Temperature (26-100 deg c)

Use Moderate temperature

Temperature control

BT1 Control
RT Temperature measurement
RT Temperature monitoring
RT Thermal insulation

Temperature dependence

RT Elevated temperature
RT High temperature
RT Low temperature
RT Moderate temperature
RT Standard temperature
RT Temperature distribution
RT Temperature effects

Temperature distribution

BT1 Distribution
RT Isotherm
RT Temperature dependence
RT Temperature gradients
RT Temperature surveys

Temperature effects

BT1 Effects
RT Heat
RT Temperature dependence
RT Thermoelasticity
RT Thermal effluents
RT Thermal pollution

Temperature gradients

NT1 Geothermal gradients
RT Isotherm
RT Temperature distribution

Temperature inversion

RT Meteorology

Temperature logging

BT1 Well logging
RT Bottom hole temperature
RT Reservoir temperature
RT Temperature measurement
RT Temperature surveys
RT Well characteristics

Temperature measurement

BT1 Measurement
RT Geothermometers
RT Geothermometry
RT Isotherm
RT Measuring instruments
RT Physical properties
RT Temperature control
RT Temperature logging
RT Temperature monitoring

RT Thermometers

Temperature monitoring

- BT1 Monitoring
- RT Temperature control
- RT Temperature measurement

Temperature surveys

- BT1 Thermal exploration
- methods
- BT2 Geophysical surveys
- RT Temperature distribution
- RT Temperature logging

Tenneco Fee "N" No. 1 Well

- BT1 Louisiana
- BT2 USA
- BT3 North America

Tensile

- See Strains
- See Stresses
- See Tensile properties

Tensile properties

- BT1 Mechanical properties
- NT1 Elasticity
- RT Shear
- RT Strain rate
- RT Strains
- RT Stresses

Tensile strength

- Use Tensile properties

Terrebonne Parish

- BT1 Louisiana
- BT2 USA
- BT3 North America

Terrestrial heat flow

- Use Heat flow

Tertiary

See Tertiary Period

Tertiary Period

- BT1 Cenozoic Era
- BT2 Geologic times
- NT1 Eocene Epoch
- NT1 Miocene Epoch
- NT1 Neogene Epoch
- NT1 Oligocene Epoch
- NT1 Paleocene Epoch
- NT1 Pliocene Epoch

Test

- See Aquifer tests
- See Comparative evaluations
- See Field studies

Test facilities

- RT Aquifer tests
- RT Comparative evaluations
- RT Field studies

Testing

- NT1 Drill stem testing
- NT1 Materials testing
- NT1 Performance testing
- RT Feasibility studies
- RT Laboratory testing
- RT Sampling
- Also see Corrosion
- Also see Inspection
- Also see Mechanical properties
- Also see Performance
- Also see Productivity
- Also see Stresses

Tests

- See Aquifer tests
- See Comparative evaluations
- See Field studies

Geopressured Geothermal Bibliography

See Observation wells	BT2 Elements
Texas	
BT1 Gulf Coast	Theoretical
BT2 North America	See Theoretical treatments
NT1 Brazoria County	Theoretical treatments
NT1 Brewster County	BT1 Document types
NT1 Brooks County	RT Experimental results
NT1 Cameron County	
NT1 Corpus Christi Fairway	Thermal
NT1 Culberson County	See Elongation
NT1 El Paso County	See Flashing
NT1 G.M. Koelemay Well No. 1	See Geothermal fluids
NT1 Galveston County	See Heat flow
NT1 Harris County	See Heat transfer
NT1 Hidalgo County	See Hydrothermal systems
NT1 Hudspeth County	See Ocean thermal power
NT1 Jeff Davis County	plants
NT1 Jefferson County	See Ocean thermal energy
NT1 Kenedy County	conversion
NT1 Kleberg County	See Specific heat
NT1 Live Oak County	See Temperature effects
NT1 Matagorda Fairway	See Temperature gradients
NT1 Matagorda County	See Temperature logging
NT1 Montgomery Fairway	See Thermal conduction
NT1 Nueces County	See Thermal conductivity
NT1 Pleasant Bayou No. 1	See Thermal diffusivity
Well	See Thermal efficiency
NT1 Pleasant Bayou No. 2	See Thermal effluents
Well	See Thermal equilibrium
NT1 Presidio County	See Thermal expansion
NT1 Rio Grande Embayment	See Thermal expansivity
NT1 Saldana Well No. 2	See Thermal exploration
NT1 Starr County	methods
NT1 Willacy County	See Thermal insulation
NT1 Zapata County	See Thermal pollution
RT Anadarko Basin	See Thermal power plants
RT Delaware Basin	See Thermal springs
RT Frio Formation	See Thermal waters
RT Gulf Coast	See Thermodynamic cycles
RT Norphlet Formation	See Thermodynamic properties
RT Queen City Formation	See Waste heat
RT Rio Grande Rift	
RT Smackover Formation	Thermal capacity
RT Trans-pecos hot rocks	Use Specific heat
RT Vicksburg Formation	
RT Wilcox Formation	Thermal conduction
Texas Railroad Commission	BT1 Heat transfer
Texas Water Quality Board	BT2 Energy transfer
Textbooks	RT Heat flow
BT1 Document types	RT Thermal conductivity
Thallium	
BT1 Metals	

RT Thermal insulation	NT1 Temperature surveys
Thermal conductivity	Thermal gradients
BT1 Thermodynamic properties	Use Temperature gradients
BT2 Physical properties	
RT Heat flow	
RT Heat transfer	Thermal insulation
RT Thermal conduction	RT Air conditioning
RT Thermal insulation	RT Heat transfer
	RT Temperature control
Thermal diffusion	RT Thermal conduction
RT Heat transfer	RT Thermal conductivity
RT Thermal diffusivity	RT Thermal diffusivity
Thermal diffusivity	Thermal logging
BT1 Thermodynamic properties	Use Temperature logging
BT2 Physical properties	
RT Thermal diffusion	
RT Thermal insulation	Thermal pollution
Thermal effects	BT1 Pollution
Use Temperature effects	RT Environmental effects
Thermal efficiency	RT Temperature effects
BT1 Efficiency	RT Thermal effluents
RT Thermodynamic cycles	RT Waste heat
Thermal effluents	Thermal power plants
RT Geothermal brines	BT1 Power plants
RT Geothermal fluids	NT1 Combined cycle power
RT Temperature effects	plants
RT Thermal pollution	NT1 Fossil fuel power plants
RT Thermal waters	NT1 Gas turbine power plants
RT Waste heat	NT1 Geothermal power plants
Thermal equilibrium	NT1 Nuclear power plants
BT1 Equilibrium	NT1 Ocean thermal power
RT Heat transfer	plants
Thermal expansion	NT1 Steam power plants
BT1 Expansion	RT Boilers
RT Elongation	
RT Thermoelasticity	
RT Thermal expansivity	
Thermal expansivity	Thermal properties
BT1 Thermodynamic properties	Use Thermodynamic properties
BT2 Physical properties	
RT Thermal expansion	
Thermal exploration methods	Thermal springs
BT1 Geophysical surveys	BT1 Water springs
BT2 Exploration methods	NT1 Hot springs
NT1 Geothermal gradient	NT1 Warm springs
surveys	RT Hydrothermal systems
NT1 Heat flow surveys	RT Mineral springs
	RT Thermal waters
	Thermal waters
	RT Flashing
	RT Fumaroles
	RT Geothermal brines
	RT Geothermal fluids
	RT Geysers
	RT Hot springs
	RT Hydrothermal systems
	RT Thermal effluents

Geopressured Geothermal Bibliography

RT Thermal springs

Thermodynamic
See Thermodynamic cycles
See Thermodynamic properties

Thermodynamic cycles
NT1 Brayton cycle
NT1 Carnot cycle
NT1 Rankine cycle
RT Binary cycles
RT Binary fluid systems
RT Closed-cycle systems
RT Combined cycles
RT Flashed steam systems
RT Open-cycle systems
RT Power generation
RT Thermal efficiency
RT Thermodynamics
RT Total flow systems
RT Working fluids

Thermodynamic properties
BT1 Physical properties
NT1 Enthalpy
NT1 Specific heat
NT1 Thermal conductivity
NT1 Thermal diffusivity
NT1 Thermal expansivity
NT1 Transition temperature
NT1 Vapor pressure
NT1 Volatility
RT Thermoelasticity
RT Thermodynamics

Thermodynamics
RT Energy recovery
RT Energy
RT Osmotic pressure
RT Thermodynamic cycles
RT Thermodynamic properties

Thermoelasticity
BT1 Elasticity
BT2 Tensile properties
BT3 Mechanical properties
NT1 Deformation
RT Stresses
RT Temperature effects
RT Thermodynamic properties
RT Thermal expansion

Thermometers
BT1 Measuring instruments
RT Geothermometers

RT Temperature measurement

Thermometry
Also see Geothermometry
Use Temperature measurement

Thickness
BT1 Dimensions
NT1 Formation thickness
RT Distance
Also see Isopach maps

Thickness maps
Use Isopach maps

Thorium
BT1 Actinides
BT2 Metals

Thrust faults
BT1 Faults
BT2 Geologic structures

Tidal
See Tidal power
See Tidal power plants

Tidal power
BT1 Energy sources
RT Tidal power plants
RT Tide

Tidal power plants
BT1 Power plants
RT Tidal power

Tide
RT Seas
RT Tidal power

Tigre Lagoon Geothermal Field
BT1 Geothermal fields
BT1 Louisiana
BT2 USA
BT3 North America

Time dependence
RT Pressure decline

Times
See Geologic times

Tin
BT1 Metals
BT2 Elements

Titanium
BT1 Transition elements

BT2 Metals	RT Low concentration
Titles See Ownership	Trace elements Use Elements Use Trace amounts
Topographic See Geologic structures See Mountains See Submarine trenches	Trade RT Economics RT Market RT Taxes
Topographic features Use Geologic structures Use Mountains Use Submarine trenches	Trans-pecos See Texas
Topography RT Earth planet RT Geography RT Maps RT Topological mapping	Trans-Pecos Hot Rocks RT Texas
Topological See Maps See Topography	Transfer See Convection See Electrodialysis See Energy balance See Energy transfer See Fluid flow See Heat exchangers See Heat flow See Heat transfer See Mass transfer See Steam condensers See Thermal conductivity See Thermal equilibrium See Thermal insulation See Transfer pipes See Two phase flow
Topological mapping RT Maps RT Topography	Transfer (energy) Use Energy transfer
Total dissolved solids Use Dissolved solids	Transfer (heat) Use Heat transfer
Total flow systems RT Geothermal energy conversion RT Thermodynamic cycles	Transfer (mass) Use Mass transfer
Towers See Cooling See Cooling systems See Heat exchangers See Power plants See Vapor condensers	Transfer pipes BT1 Pipes BT1 Surface equipment BT2 Equipment
Toxicity RT Biological effects	Transformations See Phase transformations
Trace See Elements See Trace amounts	Transition See Transition elements
Trace amounts RT Infinite dilution	

Geopressured Geothermal Bibliography

See Transition temperature

See Acoustic travel time

Transition elements

BT1 Metals
BT2 Elements
NT1 Chromium
NT1 Copper
NT1 Gold
NT1 Iron
NT1 Manganese
NT1 Molybdenum
NT1 Nickel
NT1 Platinum
NT1 Silver
NT1 Titanium
NT1 Tungsten
NT1 Vanadium

Treatment

See Acidization
See Brines
See Liquid wastes
See Ph adjustment
See Shale control
See Waste disposal
See Waste processing
See Water treatment

Treatments

See Theoretical treatments

Trenches

Use Submarine trenches

Trend

See Facies maps
See Net sand maps
See Sand percent maps
See Sand trend maps
See Trend analysis
See Trend maps

Trend analysis

BT1 Mathematics
RT Trend maps

Trend maps

BT1 Stratigraphic maps
BT2 Maps
NT1 Sand trend maps
RT Trend analysis
RT Trends

Trend surface analysis

Use Trend analysis

Trends

RT Trend maps

Triassic

See Triassic Period

Triassic Period

BT1 Mesozoic Era
BT2 Geologic times

Tridymite

BT1 Silica minerals
BT2 Minerals

Troposphere

BT1 Earth atmosphere
RT Air

RT Stratosphere

Tuff
BT1 Pyroclastic rocks
BT2 Extrusive rocks

Tungsten
BT1 Transition elements
BT2 Metals

Turbine
See Binary cycle power generation
See Gas turbine power plants
See Gas turbine power generation
See Steam turbine power generation

Turbines
NT1 Gas turbines
NT1 Steam turbines
RT Working fluids
Also see Gas turbine power generation
Also see Steam power plants
Also see Steam turbine power generation

Turkey
BT1 Middle East
BT1 Asia
BT2 Continents

Two phase
See Two phase flow

Two phase flow
BT1 Fluid flow
RT Boiling
RT Flashing
RT Heat transfer
RT Liquid flow

Uinta
See Uinta Basin
See Utah

Uinta basin
BT1 Geologic provinces
RT Utah

Unconfined aquifers
Use Aquifers

Unconfined ground water

Use Ground water

Underground
See Injection wells
See Salt deposits
See Seismic s waves
See Underground disposal
See Underground explosions

Underground disposal
BT1 Waste disposal
BT2 Waste management
RT Injection wells
RT Salt deposits

Underground explosions
BT1 Explosions
RT Contained explosions
RT Seismic s waves

Underpressure
Use Subnormal formation pressure

Union of Soviet Socialist Republics
Use USSR

United States
Use USA

United States of America
Use USA

Unwatering
Use Dewatering

Uplifts
BT1 Geologic structures
RT Strutural geology
RT Tectonics

Ural Mountains
Use Urals

Urals
BT1 Mountains
RT Asia
RT Europe
RT USSR

Uranium
BT1 Actinides
BT2 Metals
Also see Uranium compounds

Geopressured Geothermal Bibliography

Uranium compounds

Use US AEC

Urban

See Sociology
See Urban areas
See Urban populations
See Zoning

US AEC

BT1 US organizations
BT2 National organizations

Urban areas

RT Urban populations
RT Zoning

US Bureau of Reclamation

BT1 US organizations
BT2 National organizations

Urban populations

BT1 Human populations
BT2 Populations
RT Sociology
RT Urban areas

US DOE

BT1 US organizations
BT2 National organizations
RT US ERDA

Uses

RT Direct energy utilization
RT Exploitation

US EPA

BT1 US organizations
BT2 National organizations

Utah

BT1 USA
BT2 North America
RT Uinta Basin

US ERDA

BT1 US organizations
BT2 National organizations
RT US DOE
RT USA

Utilities

Also see Natural gas
Also see Power generation
Use Public utilities

USA

BT1 North America
BT2 Continents
NT1 Alabama
NT1 Missouri
NT1 South Carolina
RT Gulf Coast
RT US ERDA

Utilization

Also see Commercialization
Also see Direct energy utilization
Also see Feasibility studies
Also see Industry
Use Uses

USSR

RT Asia
RT Caspian Basin
RT Caspian Sea
RT Europe
RT Urals
RT Volga River

US

See US organizations
See US AEC
See US Bureau of Reclamation
See US DOE
See US EPA
See US ERDA

Vadose water

BT1 Subsurface waters
RT Free water
RT Water table

US organizations

BT1 National organizations
NT1 LASL
NT1 US AEC
NT1 US Bureau of Reclamation
NT1 US DOE
NT1 US EPA
NT1 US ERDA

Valles Caldera

See Valles Caldera
Geothermal Field
See Vapor dominated systems

US Atomic Energy Commission

Valles Caldera Geothermal Field

BT1 Geothermal fields
BT1 New Mexico
BT2 USA
BT3 North America

	Field
RT Vapor dominated systems	
Valley	Vapor generators
See Geothermal fields	NT1 Steam generators
See Great Valley	RT Vapors
See Imperial Valley	
See Mono-long Valley KGRA	
See Rift valleys	
See San Joaquin Valley	
Valleys	Vapor pressure
See Fault systems	BT1 Thermodynamic properties
See Faults	BT2 Physical properties
See Rift valleys	RT Volatility
See Tectonics	
Value	Vapor separators
See Aqueous solutions	NT1 Steam separators
See Ph adjustment	RT Vapors
See Ph value	
Vanadium	Vapor solubility
BT1 Transition elements	BT1 Solubility
BT2 Metals	BT2 Chemical properties
Vapor	Vaporizing
See Liquids	Use Evaporation
See Saturated vapor	
See Steam	
See Vapor condensers	
See Vapor dominated systems	
See Vapor generators	
See Vapor pressure	
See Vapor separators	
See Vapor solubility	
See Vapors	
See Volatility	
See Water	
See Water vapor	
Vapor (saturated)	Vapors
Use Saturated vapor	BT1 Gases
	BT2 Fluids
	NT1 Water vapor
	RT Evaporation
	RT Liquids
	RT Saturated vapor
	RT Vapor generators
	RT Vapor separators
	Variations
	See Seasons
	Velocity
	NT1 Sound velocity
	RT Flow rate
	RT Kinetic energy
	RT Rates
	Velocity of sound
	Use Sound velocity
Vapor condensers	Vermillion Parish
BT1 Condensers	BT1 Louisiana
NT1 Steam condensers	BT2 Gulf Coast
RT Cooling towers	
Vapor dominated systems	Vicksburg
BT1 Hydrothermal systems	See Louisiana
BT2 Geothermal systems	See Mississippi
RT Geysers Geothermal Field	See Texas
RT Larderello Geothermal	
Field	
RT Valles Caldera Geothermal	
	Vicksburg Formation
	RT Louisiana
	RT Mississippi

Geopressured Geothermal Bibliography

RT Texas

Viscosity
RT Fluid flow
RT Rheology

Vitrinite
BT1 Organic matter
RT Coal

Volatility
BT1 Thermodynamic properties
BT2 Physical properties
RT Evaporation
RT Flammability
RT Vapor pressure

Volcanic
See Volcanism
See Volcanoes

Volcanic activity
Use Volcanism

Volcanic regions
RT Volcanism
RT Volcanoes

Volcanicity
Use Volcanism

Volcanism
BT1 Geologic processes
RT Hydrothermal stage
RT Lava
RT Magma reservoirs
RT Plate tectonics
RT Pyroclastic rocks
RT Rift valleys
RT Volcanic regions
RT Volcanoes

Volcanoes
RT Volcanic regions
RT Volcanism
Also see Mud volcanoes

Volga
See USSR

See Volga River

Volga River
BT1 Europe
BT2 Continents
BT1 Rivers
BT2 Streams
RT USSR

Volume
BT1 Physical properties
RT Density

Vulcanism
Use Volcanism

Wairakei
See Hot water systems
See Wairakei Geothermal Field

Wairakei Geothermal Field
BT1 Geothermal fields
BT1 New Zealand
BT2 Australasia
RT Hot water systems

Wairakite
BT1 Zeolites
BT2 Silicate minerals

Warm springs
BT1 Thermal springs
BT2 Water springs

Warming
See Agriculture

Washing
RT Scrubbing

Washington
BT1 USA

BT2 North America

Waste

See Disposal wells
See Gaseous wastes
See Gravel packing
See Injection pumps
See Injection wells
See Liquid wastes
See Radioactive wastes
See Recovery processes
See Salt deposits
See Scrubbers
See Solid wastes
See Surface equipment
See Waste disposal
See Waste heat
See Waste management
See Waste storage
See Waste transportation
See Waste water
See Wastes
See Water
See Water pollution

Waste disposal

BT1 Waste management
BT2 Management
NT1 Stack disposal
NT1 Surface disposal
NT1 Underground disposal
RT Brine treatment
RT Disposal formations
RT Disposal wells
RT Fault activation
RT Gaseous wastes
RT Gravel packing
RT Injection wells
RT Liquid wastes
RT Radioactive wastes
RT Saline aquifers
RT Salt deposits
RT Solid wastes
RT Surface equipment
RT Suspended solids
RT Waste water
RT Wastes
RT Water pollution

Waste heat

BT1 Wastes
RT Aquaculture
RT Thermal effluents

RT Thermal pollution

Waste injection

RT Injectivity
RT Injectability
RT Injection pumps

Waste management

BT1 Management
NT1 Waste disposal
NT1 Waste processing
NT1 Waste storage
NT1 Waste transportation
RT Radioactive wastes
RT Recovery processes
RT Wastes

Waste processing

BT1 Processing
BT1 Waste management
BT2 Management
NT1 Materials recovery
RT Liquid wastes
RT Radioactive wastes
RT Recovery processes
RT Scrubbers

Waste storage

BT1 Waste management
BT2 Management

Waste transportation

BT1 Waste management
BT2 Management

Waste treatment

Use Waste processing

Waste water

BT1 Liquid wastes
BT2 Wastes
RT Waste disposal
RT Water
RT Water pollution

Waste water disposal

Use Waste water

Geopressured Geothermal Bibliography

Use	Waste disposal	Also see	Water
Wastes			Water
NT1 Gaseous wastes		NT1 Brackish water	
NT1 Liquid wastes		NT1 Drinking water	
NT1 Radioactive wastes		NT1 Fresh water	
NT1 Solid wastes		NT1 Rain water	
NT1 Waste heat		NT1 Salt water	
RT Pollution		RT Atmospheric precipitations	
RT Recovery processes		RT Ground water	
RT Waste disposal		RT Hydrates	
RT Waste management		RT Hydrosphere	
RT Water pollution		RT Jets	
Also see Dissolved solids		RT Liquid wastes	
Also see Gases		RT Steam	
Also see Ground water		RT Subsurface waters	
Also see Mineral wastes		RT Surface waters	
Also see Surface waters		RT Waste water	
Also see Waste management		RT Water pollution	
		RT Water quality	
		RT Water requirements	
		RT Water resources	
		RT Water vapor	
		Also see Air monitoring	
		Also see Aquifers	
		Also see Artesian water	
		Also see Brines	
		Also see Capillary water	
		Also see Connate water	
		Also see Dewatering	
		Also see Dissolved gases	
		Also see Fluid withdrawal	
		Also see Free water	
		Also see Gas saturation	
		Also see Ground water	
		Also see Ground water recharge	
		Also see Hot water	
		Also see Hot water heating	
		Also see Hot water systems	
		Also see Hydraulic fracturing	
		Also see Hygroscopic water	
		Also see Interstitial water	
		Also see Jets	
		Also see Juvenile water	
		Also see Legal aspects	
		Also see Meteoric water	
		Also see Oil production	
		Also see Oil saturation	
		Also see Oil wells	
		Also see Overdraft	
		Also see Pollution control equipment	
		Also see Rain	
		Also see Reservoir engineering	

Also see Reservoir rocks
 Also see Salinity
 Also see Sandstone
 Also see Sea water
 Also see Seas
 Also see Solutions
 Also see Steam
 Also see Subsurface waters
 Also see Surface waters
 Also see Vadose water
 Also see Waste disposal
 Also see Waste water
 Also see Water analysis
 Also see Water influx
 Also see Water management
 Also see Water monitoring
 Also see Water pollution abatement
 Also see Water pollution control
 Also see Water production
 Also see Water quality
 Also see Water requirements
 Also see Water reservoirs
 Also see Water resources
 Also see Water springs
 Also see Water table
 Also see Water treatment
 Also see Water vapor

Water analysis
 BT1 Analysis
 RT Air analysis
 RT Dissolved gases
 RT Dissolved solids
 RT Odor
 RT Water monitoring
 RT Water pollution

Water conditioning
 Use Water treatment

Water entry
 RT Ground water recharge
 RT Water production
 See Encroachment (water)
 See Intrusion

Water fracturing
 Use Hydraulic fracturing

Water inflow
 Use Water influx

Water influx
 RT Aquifers
 RT Injection

RT Leakage
Water jets
 Use Jets

Water level
 Use Water table

Water management
 BT1 Management
 RT Ground water
 RT Irrigation
 RT Water resources

Water monitoring
 BT1 Monitoring
 RT Air monitoring
 RT Water analysis
 RT Water pollution

Water pollution
 BT1 Pollution
 RT Environmental effects
 RT Fouling
 RT Waste disposal
 RT Waste water
 RT Wastes
 RT Water
 RT Water analysis
 RT Water monitoring
 RT Water pollution abatement
 RT Water pollution control
 RT Water quality

Water pollution abatement
 BT1 Abatement
 RT Pollution control equipment
 RT Water pollution
 RT Water pollution control

Water pollution control
 BT1 Pollution control
 BT2 Control
 RT Water pollution
 RT Water pollution abatement

Water production
 BT1 Production
 RT Formation testing
 RT Oil production
 RT Production testing
 RT Water entry
 RT Well testing

Water purification

Geopressured Geothermal Bibliography

Use Water treatment	RT Water table
Water quality	Water table
RT Drinking water	RT Aquifers
RT Irrigation	RT Drawdown
RT Water	RT Ground water
RT Water pollution	RT Ground water recharge
RT Water treatment	RT Vadose water
Water recovery	RT Water springs
Use Water production	
Water requirements	Water table aquifers
RT Water	Use Aquifers
RT Water resources	
Water reservoirs	Water treatment
BT1 Surface waters	RT Desalination
NT1 Cooling ponds	RT Water quality
RT Basins	
RT Fresh water	
RT Lakes	
RT Reservoir engineering	Water vapor
RT Water resources	BT1 Vapors
Water resources	BT2 Gases
BT1 Resources	RT Steam
RT Ground water	RT Water
RT Rain water	
RT Subsurface waters	Waters
RT Surface waters	See Atmospheric precipitations
RT Water	See Coastal waters
RT Water management	See Environment
RT Water requirements	See Flashing
RT Water reservoirs	See Geothermal fluids
RT Water rights	See Hydrogeology
Water rights	See Hydrothermal systems
RT Legal aspects	See Oceanography
RT Water resources	See Plankton
Water saturation	See Salt water
RT Gas saturation	See Seas
RT Oil saturation	See Shores
RT Reservoir rocks	See Subsurface reservoirs
Water springs	See Subsurface waters
NT1 Mineral springs	See Surface waters
NT1 Thermal springs	See Thermal effluents
RT Aquifers	See Thermal waters
RT Artesian wells	See Water
RT Ground water	Wave propagation
	Waves
	See Earthquakes
	See Explosions
	See Ground motion
	See Rayleigh waves
	See Seismic effects
	See Seismic events
	See Seismic p waves
	See Seismic s waves
	See Seismic waves
	See Seismology
	See Sound velocity

See Sound waves

Weather

RT Atmospheric
precipitations
RT Climates
RT Hurricanes
RT Meteorology
RT Seasons
RT Storms
RT Wind

Weeks Island

BT1 Iberia Parish
BT2 Louisiana

Well

See Acidization
See Bottom hole pressure
See Bottom hole temperature
See Directional drilling
See Downhole pumps
See Downhole sampling
See Drawdown
See Drilling
See Drills
See Explosive stimulation
See Geopressured wells
See Geopressured zones
See Geothermal fields
See Geothermal wells
See Hole diameter
See Hydraulic fracturing
See Monitoring
See Natural gas fields
See Observation wells
See Oil fields
See Oil wells
See Plugging
See Reaming
See Reservoir properties
See Rock drilling
See Subsurface reservoirs
See Well casings
See Well cementing
See Well characteristics
See Well completion
See Well data
See Well design
See Well drilling
See Well head pressure
See Well head temperature
See Well information systems
See Well interference
See Well logging
See Well monitoring
See Well stimulation
See Wellheads

See Wells

Well acidizing

Use Acidization

Well casings

RT Casing programs
RT Flow string
RT Pipes
RT Well design
RT Well drilling
RT Wells

Well cementing

RT Drilling
RT Well design

Well characteristics

NT1 Bottom hole temperature
NT1 Bottom hole pressure
NT1 Well head temperature
NT1 Well head pressure
RT Reservoir properties
RT Reservoir temperature
RT Temperature logging
RT Well data

Well completion

RT Casing programs
RT Formation damage
RT Natural gas wells
RT Oil wells
RT Well testing
RT Well data
RT Well design
RT Well drilling
RT Wellheads
RT Wireline operation

Well data

BT1 Information
RT Bottom hole pressure
RT Bottom hole temperature
RT Downhole sampling
RT Production decline curve
RT Reservoir properties
RT Well characteristics
RT Well completion
RT Well head pressure
RT Well head temperature

Geopressured Geothermal Bibliography

RT Wells

Well design

- BT1 Design
- RT Disposal formations
- RT Disposal wells
- RT Downhole pumps
- RT Drilling equipment
- RT Well casings
- RT Well cementing
- RT Well completion

Well drilling

- BT1 Drilling
- NT1 Deep drilling
- NT1 Geothermal drilling
- NT1 Oil drilling
- NT1 Rotary drilling
- RT Blowouts
- RT Boreholes
- RT Directional drilling
- RT Drill bits
- RT Drill collars
- RT Drill cores
- RT Drilling fluids
- RT Drilling rigs
- RT Drills
- RT Geothermal wells
- RT MWD systems
- RT Reaming
- RT Rock drillability
- RT Rock drillability
- RT Rock drilling
- RT Subterrene penetrators
- RT Well casings
- RT Well completion
- RT Well logging

Well head pressure

- BT1 Well characteristics
- RT Well data
- RT Wells

Well head temperature

- BT1 Well characteristics
- RT Well data
- RT Wells

Well heads

- Use Wellheads

Well hole diameter

- Use Hole diameter

Well information systems

- BT1 Information systems
- RT Monitoring
- RT Reservoir description

RT Well monitoring

Well interference

- RT Observation wells
- RT Reservoir properties
- RT Subsurface reservoirs
- RT Well spacing
- RT Wells

Well logging

- NT1 Caliper logging
- NT1 Cement bond logging
- NT1 Dipmeter logging
- NT1 Electrical logging
- NT1 Gamma ray logging
- NT1 Gravity logging
- NT1 Inductive logging
- NT1 Magnetic logging
- NT1 Microresistivity
- NT1 Mud logging
- NT1 Neutronal logging
- NT1 Nuclear magnetic logging
- NT1 Production logging
- NT1 Radioactivity logging
- NT1 Resistivity logging
- NT1 Sonic logging
- NT1 SP logging
- NT1 Temperature logging
- RT Boreholes
- RT Cuttings
- RT Drill cores
- RT Formation testing
- RT Geophysical surveys
- RT Measuring instruments
- RT MWD systems
- RT Petroleum geology
- RT Recording systems
- RT Reservoir description
- RT Well logging equipment
- RT Well testing
- RT Well drilling
- RT Wells
- RT Wireline operation

Well logging equipment

- BT1 Equipment
- RT Coal deposits
- RT Geothermal exploration
- RT Natural gas deposits
- RT Petroleum deposits
- RT Well logging

Well logs

- Use Well logging

Well monitoring

- BT1 Monitoring

RT Well information systems

Well plugging

Use Plugging

Well pressure

Use Bottom hole pressure

Well pumps

Use Downhole pumps

Well reaming

Use Reaming

Well shooting

Use Explosive stimulation

Well spacing

RT Drawdown

RT Geopressured wells

RT Geopressured zones

RT Geothermal fields

RT Geothermal wells

RT Natural gas fields

RT Oil fields

RT Oil wells

RT Well interference

RT Wells

Well stimulation

BT1 Reservoir engineering

BT2 Engineering

NT1 Explosive stimulation

RT Acidization

RT Hydraulic fracturing

RT Permeability restoration

RT Plugging

RT Wells

Well temperature

Use Bottom hole temperature

Well testing

NT1 Drill stem testing

NT1 Production testing

RT Back pressure

RT Bottom hole temperature

RT Formation testing

RT Gas production

RT Observation wells

RT Oil production

RT Production rate

RT Pumping

RT Reservoir engineering

RT Water production

RT Well completion

RT Well logging

See Downhole testing

Wellhead prices

RT Natural gas wells

RT Oil wells

Wellheads

RT Geopressured wells

RT Geothermal wells

RT Natural gas wells

RT Oil wells

RT Well completion

Geopressured Geothermal Bibliography

RT Wells

Wells

NT1 Abandoned wells
NT1 Deep wells
NT1 Exploratory wells
NT1 Geothermal wells
NT1 Injection wells
NT1 Natural gas wells
NT1 Observation wells
NT1 Oil wells
NT1 Producing wells
RT Blowouts
RT Boreholes
RT Bottom hole pressure
RT Bottom hole temperature
RT Circulation
RT Dewatering
RT Drilling
RT Hole diameter
RT Lost circulation
RT Pumping
RT Well casings
RT Well data
RT Well head pressure
RT Well head temperature
RT Well interference
RT Well logging
RT Well spacing
RT Well stimulation
RT Wellheads
Also see Artesian basins
Also see Artesian water
Also see Artificial recharge
Also see Directional drilling
Also see Disposal wells
Also see Gas production
Also see Geopressured wells
Also see Ground subsidence
Also see Hot dry rock systems
Also see Injection pumps
Also see Interstitial water
Also see Natural gas
Also see Oil production
Also see Petroleum
Also see Water springs
Also see Well completion
Also see Well design
Also see Well drilling

Wells of opportunity

West Germany

Use German Federal Republic

West Indies

West Virginia

BT1 USA
BT2 North America

Wet steam systems

Use Hot water systems

Wilcox Formation

RT Louisiana
RT Mississippi
RT Texas

Wild animals

BT1 Animals

Wildcat

See Exploratory wells

Wildcat wells

Use Exploratory wells

Willacy County

BT1 Texas
BT2 Gulf Coast

Wind

RT Air
RT Climates
RT Hurricanes
RT Meteorology
RT Storms
RT Weather
Also see Wind energy
Also see Wind power plants

Wind energy

BT1 Energy
RT Wind power plants

Wind power

Use Wind energy

Wind power plants

BT1 Power plants
RT Wind energy

Wireline operation

RT Well completion
RT Well logging

Withdrawal

See Fluid withdrawal
See Geothermal fluids
See Ground water

See Overdraft

Working
See Heat exchangers
See Personnel
See Safety
See Thermodynamic cycles
See Working fluids

Working conditions
RT Personnel
RT Safety

Working fluids
BT1 Fluids
RT Energy conversion
RT Heat exchangers
RT Hydrodynamics
RT Thermodynamic cycles
RT Turbines

Wyoming
BT1 USA
BT2 North America
NT1 Recluse Field
RT Yellowstone National Park

Xenon
BT1 Rare gases
BT2 Nonmetals

Yellowstone National Park
BT1 Public lands
BT1 USA
BT2 North America
RT Idaho
RT Montana
RT Wyoming

Yield
See Energy balance
See Energy consumption
See Energy demand
See Energy sources
See Energy storage
See Energy transfer
See Energy yield
See Net energy

See Productivity

Zapata Fairway
BT1 Texas
BT2 USA
BT3 North America

Zeolites
BT1 Silicate minerals
BT2 Minerals
NT1 Mordenite
NT1 Wairakite

Zinc
BT1 Metals
BT2 Elements

Zonation
RT Biostratigraphy
RT Stratigraphy

Zones
See Fault zones
See Faults
See Geopressured zones
See Plate tectonics
See Rift valleys
See Submarine trenches

Zoning
BT1 Regulations
RT Industry
RT Land use
RT Planning
RT Urban areas

2-methylpropane
BT1 Alkanes
BT2 Hydrocarbons

Geopressured Geothermal Bibliography

Index

v

Geopressured Geothermal Bibliography

10.0 INDEX

A

Abandoned wells 11
Abatement 11
Abnormal formation pressure 11
Abnormal pressure 11
Abrasion 11
Absorption 11
Absorption (chemical) 11
Absorption spectroscopy 11
Abstract 11
Abstracts 11
Abundance 11
Acadia Parish 11
Accidents 11
Accumulation 11
Accumulation rate 11
Accuracy 11
Acid 11
Acid treatment 11
Acidification 11
Acidity 11
Acidization 12
Acidizing 12
Acoustic 12
Acoustic logging 12
Acoustic monitoring 12
Acoustic velocity 12
Acoustic waves 12
Acquisition 12
Actinides 12
Activation 12
Active 12
Active faults 12
Activity 12
Adjustment 12
Administration 12
Adsorption 12
Adularia 12
AEC 19
Aerial 12
Aerial prospecting 12
Aerial surveys 12
Africa 12
Age 12
Age estimation 12
Agency 12
Ages 12
Agreements 12
Agriculture 13
Air 13
Air analysis 13
Air cleaning 13
Air conditioning 13
Air ejectors 13
Air monitoring 13
Air pollution 13
Air pollution abatement 13
Air pollution control 13
Air pollution monitors 13
Air quality 13
Alabama 14
Alaska 14
Albite 14
Algorithms 14
Alkali 14
Alkali metals 14
Alkaline 14
Alkaline earth metals 14
Alkalinity 14
Alkanes 14
Allocations 14
Alloys 14
Alluvial 14
Alluvial deposits 14
Alluvium 14
Alteration 14
Altitude 14
Aluminum 14
Aluminum inorganic compounds 14
Alunite 15
America 15
Ammonia 15
Amorphous 15
Amorphous state 15
Amounts 15
Amphiboles 15
Amphibolite 15
Anadarko Basin 15
Analysis 15
Andesine 15
Andesite 15
Andesites 15
Anhydrite 16
Animal 16
Animal shelters 16
Animals 16
Anions 16
Anisotropy 16
Anorthosite 16
Anthropogenic 16
Anthropogenic occurrence 16
Anticlines 16
Anticlinoria 16
Antifoulants 16
Antimony 16
Apartment buildings 16
Aphanite 16

Geopressured Geothermal Bibliography

Aphanitic	16	Availability	19
Aphanitic rocks	16		
Appalachia	16		
Applications	16		
Aquaculture	16		
Aquatic	16		
Aquatic ecosystems	16		
Aquatic habitats	16		
Aquatic organisms	17		
Aqueous	17		
Aqueous solutions	17		
Aquiclude	17		
Aquiculture	17		
Aquifer	17		
Aquifer rehabilitation	17		
Aquifer tests	17		
Aquifers	17		
Aquitards	17		
Arabian Gulf	17		
Arabian Sea	17		
Arbitration	17		
Arcts	17		
Arctic	17		
Arctic regions	17		
Areal geology	17		
Areas	18		
Argillaceous rocks	18		
Argon	18		
Arizona	18		
Arkansas	18		
Arsenic	18		
Artesian	18		
Artesian aquifers	18		
Artesian basins	18		
Artesian pressure	18		
Artesian water	18		
Artesian wells	18		
Artificial	18		
Artificial recharge	18		
Asia	18		
Aspects	18		
Assessment	18		
Assignments	19		
Associated gases	19		
Astatine	19		
Atlantic	19		
Atlantic Ocean	19		
Atmosphere	19		
Atmosphere (Earth)	19		
Atmospheric	19		
Atmospheric pollution	19		
Atmospheric precipitations	19		
Atomic	19		
Attitudes	19		
Austin Bayou Prospect	19		
Australasia	19		
Australia	19		
Automatic data processing	19		
		B	
Back pressure	19		
Bacteria	19		
Balance	19		
Balance (energy)	19		
Bar	20		
Barite	20		
Barium	20		
Barium inorganic compounds	20		
Barium sulfates	20		
Barrel	20		
Barrier	20		
Basalt	20		
Baseline Ecology	20		
Basicity	20		
Basin	20		
Basins	20		
Batholiths	20		
Bays	20		
Bearings	20		
Bed	20		
Bed thickness	20		
Benefit	20		
Benioff zones	20		
Beryllium	20		
Bibliographies	20		
Binary	21		
Binary cycle power generation	21		
Binary cycles	21		
Binary fluid systems	21		
Biological	21		
Biological effects	21		
Biology	21		
Biomass	21		
Biosphere	21		
Biostatigraphy	21		
Biotite	21		
Biotope	21		
Bismuth	21		
Bits	21		
Blocks	21		
Blowout	21		
Blowout preventers	21		
Blowouts	21		
Boilers	21		
Boiling	22		
Bop	22		
Borehole	22		
Borehole diameter	22		
Boreholes	22		
Boring	22		

Index

Borneo 22
Boron 22
Boron inorganic compounds 22
Bottom hole pressure 22
Bottom hole pumps 22
Bottom hole temperature 22
Bound water 22
Brackish 22
Brackish water 22
Brayton cycle 22
Brayton cycle power generation 22
Brayton cycle power systems 22
Brazoria County 22
Brewster County 22
Brine 22
Brine disposal 23
Brine treatment 23
Brines 23
Brittleness 23
Bromides 23
Bromine 23
Bromine inorganic compounds 23
Brooks County 23
Budget 23
Budgets 23
Buildings 23
Buildup 23
Bulk 23
Bulk density 23
Bureau of Reclamation 23
Burial 23
Burial depth 23
By-products 23

C

Cadmium 24
Calcasieu Parish 24
Calcite 24
Calcium 24
Calcium carbonates 24
Calcium chlorides 24
Calcium inorganic compounds 24
Calcium sulfates 24
Calculation 24
Calculation methods 24
Calculations 24
Calibration 24
California 24
Caliper 24
Caliper logging 24
Calstic ratio 24
Calstic ratio maps 24
Cambrian 25
Cambrian Period 25
Cameron County 25
Cameron Fairway 25
Cameron Parish 25
Cane 25
Cap 25
Cap rock 25
Capacity 25
Capillary 25
Capillary Flow 25
Capillary pressure 25
Capillary water 25
Capital 25
Caps 25
Carbon 25
Carbon dioxide 25
Carbon inorganic compounds 25
Carbon steels 25
Carbonate 25
Carbonate minerals 25
Carbonate rocks 25
Carbonates 26
Carboniferous 26
Carboniferous Periods 26
Caribbean 26
Caribbean Sea 26
Carnot 26
Carnot cycle 26
Carpathian Basin 26
Case 26
Case histories 26
Casing programs 26
Casings 26
Caspian Basin 26
Caspian Sea 26
Catagenesis 26
Cations 26
Cavitation 26
Cavitation erosion 26
Cells 26
Cement 26
Cement bond logging 26
Cementing 26
Cenozoic Era 26
Central 27
Central America 27
Central heating plants 27
Cerro Prieto 27
Cerro Prieto Geothermal Field 27
Cesium 27
Chalcedony 27
Chalcopyrite 27
Characteristics 27
Charges 27
Charging 27
Charts 27
Chemical 27
Chemical analysis 27
Chemical analysis methods 27

Geopressured Geothermal Bibliography

Chemical composition 28
Chemical effluents 28
Chemical equilibrium 28
Chemical explosions 28
Chemical explosives 28
Chemical properties 28
Chemical reactions 28
Chemical treatment 28
Chemically precipitated rocks 28
Chemisorption 28
Chemistry 28
Chert 28
China 28
Chlorides 28
Chlorine 28
Chlorine inorganic compounds 28
Chlorite 28
Chlorite minerals 28
Chocolate Bayou Geothermal Field 29
Chromatography 29
Chromium 29
Circulating 29
Circulating rate 29
Circulation 29
Circulation rate 29
Cities 29
Classification 29
Clastic 29
Clastic rocks 29
Clay 29
Clay mineralogy 29
Clay minerals 29
Cleaning 29
Climates 29
Closed-cycle systems 29
Co-generation 29
Coal 29
Coal deposits 29
Coal reserves 30
Coalinga 30
Coast 30
Coast ranges 30
Coastal 30
Coastal regions 30
Coastal waters 30
Coatings 30
Codes 30
Coefficient 30
Coefficient of thermal expansion 30
Collars 30
Collecting 30
Collecting tanks 30
Colorado 30
Colorado County 30
Colorado Fairway 30
Colorimetry 30
Combined 30
Combined cycle power generation 30
Combined cycle power plants 30
Combined cycles 30
Commercial 30
Commercial buildings 30
Commercialization 31
Communities 31
Compaction 31
Comparative 31
Comparative evaluations 31
Completion 31
Completion (wells) 31
Compliance 31
Composition 31
Compounds 31
Compressibility 31
Compression 32
Compressors 32
Computer 32
Computer calculations 32
Computer codes 32
Computer programming 32
Computer programs 32
Computerized simulation 32
Computers 32
Concentration 32
Concentration (<0.01 molal) 32
Concentration (>1.0 molal) 32
Concentration (infinite dilution) 32
Concentration (0.01-0.10 molal) 32
Concentration (0.10-1.0 molal) 32
Concentration dependence 32
Concordant 32
Concordant intrusions 32
Condensates 32
Condensers 32
Conditioning 33
Conditions 33
Conduction 33
Conductivity 33
Conferences 33
Confined 33
Confined aquifers 33
Confined ground water 33
Congressional hearings 33
Connate 33
Connate water 33
Conservation 33
Conservation (energy) 33
Conservation (resource) 33
Consolidation 33
Constant 33
Constraints 33
Construction 33
Consumption 33
Consumption rates 33

Index

Contained 33
Contained explosions 33
Contamination 33
Contemporaneous faults 33
Content 33
Content analysis 33
Continental 34
Continental crust 34
Continental drift 34
Continental shelf 34
Continental slopes 34
Continents 34
Contour 34
Contour maps 34
Contracts 34
Control 34
Convection 34
Convection cells 34
Convective 34
Conversion 35
Cooling 35
Cooling ponds 35
Cooling systems 35
Cooling towers 35
Copper 35
Copper pyrites 35
Core 35
Core (earth) 35
Core barrel 35
Cores 35
Coring 35
Coring equipment 35
Corpus Christi Fairway 35
Correlation 35
Corrosion 36
Corrosion control 36
Corrosion inhibitors 36
Corrosion monitoring 36
Corrosion products 36
Corrosion protection 36
Corrosion resistance 36
Corrosive 36
Corrosive effects 36
Coso Hot Springs KGRA 36
Cost 36
Cost benefit analysis 36
Costs 36
County 37
Courts 37
Cracks 37
Creep 37
Cretaceous Period 37
Crevice 37
Crevice corrosion 37
Cristobalite 37
Crops 37
Cross sections 37
Crude oil 37
Crust 37
Crust (earth) 37
Crystal 37
Crystal structures 37
Crystallization 37
Crystallography 37
Crystals 37
Culberson County 37
Cultivation 37
Cultivation techniques 38
Cultural resources 38
Culture 38
Current 38
Curves 38
Cuttings 38
Cuttings analysis 38
Cycle 38
Cycles 38
Czechoslovakia 38

D

Damage 38
Data 38
Data acquisition 38
Data acquisition systems 38
Data analysis 38
Data compilation 38
Data processing 38
Datum pressure 39
Decline 39
Decomposition 39
Deep drilling 39
Deep wells 39
Deformation 39
Dehydration 39
Delaware 39
Delaware Basin 39
Deltas 39
Demand 39
Demineratization 39
Demography 39
Demonstration 39
Demonstration plants 39
Demonstration programs 39
Density 39
Density gradients 39
Department of Energy 39
Dependence 40
Depletion 40
Depletion (ground water) 40
Depletion (resource) 40
Deposition 40
Deposition rate 40
Depositional 40

Geopressured Geothermal Bibliography

Depositional environment 40
Depositional faults 40
Deposits 40
Deposits (geological) 40
Depth 40
Deregulation 40
Desalination 40
Descaling 41
Description 41
Design 41
Desulfurization 41
Detection 41
Determination 41
Development 41
Devonian 41
Devonian Period 41
Dewatering 41
DeWitt County 41
DeWitt Fairway 41
Diabase 41
Diagenesis 41
Diagrams 41
Diameter 41
Diapirism 41
Diapirs 41
Diastrophism 41
Dickite 41
Dielectric 41
Dielectric constant 41
Differential 41
Differential equations 41
Differential pressure 42
Diffusion 42
Diffusion coefficient 42
Diffusivity 42
Dike intrusions 42
Dikes 42
Dilute 42
Dilute solutions 42
Dilution 42
Dimensions 42
Dioxide 42
Dip 42
Dip logging 42
Dipmeter 42
Dipmeter logging 42
Direct energy utilization 42
Directional 42
Directional drilling 42
Directory 42
Discharge 42
Discharge rate 42
Discordant 42
Discordant intrusions 42
Dispersions 42
Displacements 42
Disposal 43
Disposal formations 43
Disposal wells 43
Dissolved 43
Dissolved gases 43
Dissolved salts 43
Dissolved solids 43
Distance 43
Distribution 43
District 43
District cooling 43
District heating 43
Document 43
Document types 44
Documentation 44
DOE 46
Dolomite 44
Dolomite mineral 44
Dolomite rocks 44
Domes 44
Domestic 44
Domestic animals 44
Downhole 44
Downhole pressure 44
Downhole pumps 44
Downhole sampling 44
Downhole temperature 44
Drainage 44
Drainage systems 44
Drawdown 44
Drawings 44
Drift 44
Drill 44
Drill bits 45
Drill collars 45
Drill cores 45
Drill holes 45
Drill pipes 45
Drill stem testing 45
Drillability 45
Drilling 45
Drilling equipment 45
Drilling fluid flow rate 45
Drilling fluids 45
Drilling muds 45
Drilling rate 45
Drilling rigs 46
Drills 46
Drinking water 46
Drive mechanism 46
Drop 46
Dry rock systems 46
Dry rocks 46
Dry steam systems 46
Duval Fairway 46

E

Earth 46
Earth atmosphere 46
Earth core 46
Earth crust 46
Earth current surveys 47
Earth interior 47
Earth mantle 47
Earth movements 47
Earth penetrators 47
Earth planet 47
Earth planetary structure 47
Earth structure 47
Earthquakes 47
Earths 47
East Germany 47
East Mesa Geothermal Field 47
East Mesa KGRA 47
Ecology 47
Economic 47
Economic analysis 47
Economic geology 47
Economic impact 48
Economic policy 48
Economics 48
Ecosystems 48
Edna Delcambre No. 1 Well 48
Education 48
Effects 48
Efficiency 48
Effluents 48
Effluents (chemical) 48
Effluents (gaseous) 48
Effluents (liquid) 48
Effluents (thermal) 48
Ejectors 49
El Paso County 49
El Salvador 49
Elastic 49
Elastic properties 49
Elasticity 49
Elastomers 49
Electric 49
Electric conductivity 49
Electric generators 49
Electric heating 49
Electric potential 49
Electric power 49
Electric power generation 49
Electric power industry 49
Electric power plants 49
Electric resistivity 49
Electric utilities 49
Electrical 49
Electrical conductivity 49

Electrical equipment 49
Electrical exploration 49
Electrical logging 49
Electrical properties 50
Electrical resistivity 50
Electrical surveys 50
Electrodialysis 50
Electrolysis 50
Electromagnetic 50
Electromagnetic radiation 50
Electromagnetic surveys 50
Elements 50
Elevated 50
Elevated concentration 50
Elevated pressure 50
Elevated temperature 50
Elongation 50
Embayment 50
Emission 50
Emission spectroscopy 50
Empirical 50
Empirical equations 50
Employment 50
Energy 51
Energy accounting 51
Energy balance 51
Energy conservation 51
Energy consumption 51
Energy conversion 51
Energy demand 51
Energy policy 51
Energy potential 51
Energy recovery 51
Energy Research and Development
Administration 52
Energy reserves 51
Energy resources 52
Energy source development 52
Energy sources 52
Energy storage 52
Energy supplies 52
Energy transfer 52
Energy yield 52
Enforcement 52
Engineering 52
Engineering geology 52
Engineering properties 52
Enhanced recovery 52
Enthalpy 52
Environment 53
Environmental 53
Environmental effects 53
Environmental geology 53
Environmental impact statements 53
Environmental impacts 53
Environmental policy 53
Environmental Protection Agency 53
Eocene 53

Geopressured Geothermal Bibliography

Eocene Epoch 53
EPA 56
Epidotes 53
Epoch 53
Equations 53
Equilibrium 53
Equipment 53
Era 54
Eras 54
ERDA 56
Erosion 54
Errors 54
Estimation 54
Estuaries 54
Ethane 54
Eugene 54
Eugene Island Block 18 Field 54
Europe 54
Europium 54
Evaluation 54
Evaluations 54
Evaporation 54
Evaporators 54
Evaporites 54
Evaporitic 54
Evaporitic rocks 54
Events 54
Evolution 54
Exchange 54
Exchangers 54
Expansibility 54
Expansion 54
Expansivity 55
Expenses 55
Experimental 55
Experimental results 55
Experimental studies 55
Experimental techniques 55
Exploitation 55
Exploration 55
Exploration methods 55
Exploratory 55
Exploratory wells 55
Explosions 55
Explosive 55
Explosive stimulation 55
Explosives 56
Extraction 56
Extrusive 56
Extrusive rocks 56

F

Fabrication 56
Facies 56
Facies maps 56
Facilities 56
Factors 56
Failures 56
Fairfax Foster Sutter No. 2
Well 56
Fairway 56
Fairway analysis 56
Farm animals 56
Farm buildings 56
Fatigue 56
Fault 56
Fault activation 56
Fault blocks 56
Fault seals 56
Fault systems 57
Fault zones 57
Faulting 57
Faults 57
Feasibility 57
Feasibility studies 57
Features 57
Federal buildings 57
Federal lands 57
Federal Republic of Germany 57
Feldspars 57
Ffg 57
Field 57
Field studies 58
Fields 58
Filtration 58
Financial incentives 58
Financing 58
Fire 58
Fire hazards 58
Fires 58
Fish 58
Fish culture 58
Fishes 58
Fissured 58
Fissured formations 58
Fissures 58
Fittings 58
Flame photometry 58
Flammability 58
Flash 58
Flash evaporation 58
Flashed 59
Flashed steam systems 59
Flashing 59
Flooding rate 59
Floods 59

Index

Floor 59
Florida 59
Flow 59
Flow (fluid) 59
Flow charts 59
Flow models 59
Flow rate 59
Flow string 59
Flowmeters 59
Fluid 60
Fluid disposal 60
Fluid flow 60
Fluid mechanics 60
Fluid pressure 60
Fluid properties 60
Fluid sampling 60
Fluid withdrawal 60
Fluidized bed heat exchangers 60
Fluids 60
Fluorides 60
Fluorine 60
Fluorine inorganic compounds 60
Fluorite 61
Flux 61
Fold systems 61
Folds 61
Food processing 61
Foraminifera 61
Forecasting 61
Formation 61
Formation damage 61
Formation fracturing 61
Formation heat 61
Formation plugging 61
Formation pressure 61
Formation testing 61
Formation thickness 62
Formation water 62
Formations 62
Fossil fuel power plants 62
Fossil fuels 62
Fouling 62
Fracture 62
Fracture flow 62
Fracture properties 62
Fractured formations 62
Fractured reservoirs 62
Fractures 62
Fracturing 62
Fragmental rocks 62
Franciscan 62
Franciscan Formation 62
Francium 62
Frasch sulfur process 62
Free ground water 62
Free water 62
Freezing 62
Freezing point 62
Freezing potential 63
Fresh water 63
Friction 63
Frio 63
Frio Formation 63
Frost 63
Fuel 63
Fuel gas 63
Fuel leasing 63
Fuels 63
Fumaroles 63
Functional 63
Functional models 63

G

G codes 63
Gabbro 63
Gages 63
Galena 63
Gallium 63
Galveston 63
Galveston County 63
Gamma radiation 64
Gamma ray logging 64
Gamma ray surveys 64
Gamma spectroscopy 64
Gamma-gamma logging 64
Gas analysis 64
Gas cap gases 64
Gas caps 64
Gas chromatography 64
Gas condensates 64
Gas ejectors 64
Gas fields 64
Gas heating 64
Gas production 64
Gas saturation 64
Gas turbine power generation 65
Gas turbine power plants 65
Gas turbines 65
Gas wells 65
Gaseous 65
Gaseous effluents 65
Gaseous wastes 65
Gases 65
Gases in solution 65
Geanticlines 65
Generation 66
Generators 66
Genesis 66
Geo brines 66
Geochemical 66
Geochemical surveys 66
Geochemistry 66

Geopressured Geothermal Bibliography

Geochronology 66
Geographical 66
Geographical distribution 66
Geography 66
Geohydrology 66
Geoisotherm 66
Geologic 66
Geologic age determination 66
Geologic ages 66
Geologic compaction 66
Geologic control 66
Geologic cross sections 66
Geologic deposits 67
Geologic engineering 67
Geologic environment 67
Geologic faults 67
Geologic fissures 67
Geologic models 67
Geologic processes 67
Geologic provinces 67
Geologic strata 67
Geologic structures 67
Geologic thermometers 67
Geologic times 67
Geologic traps 67
Geological 67
Geological engineering 67
Geological setting 67
Geological surveys 68
Geology 68
Geomorphology 68
Geophysical 68
Geophysical exploration 68
Geophysical surveys 68
Geophysics 68
Geopressure 68
Geopressure anomalies 68
Geopressure exploration 68
Geopressure gradients 68
Geopressure power plants 68
Geopressure resources 68
Geopressured 69
Geopressured areas 69
Geopressured fields 69
Geopressured regions 69
Geopressured reservoirs 69
Geopressured systems 69
Geopressured wells 69
Geopressured zones 69
Geostatic 69
Geostatic pressure 69
Geosynclines 69
Geotectonics 69
Geothermal 69
Geothermal areas 70
Geothermal brines 70
Geothermal drilling 70
Geothermal energy 70
Geothermal energy conversion 70
Geothermal exploration 70
Geothermal fields 70
Geothermal fluids 70
Geothermal flux 70
Geothermal gradients 70
Geothermal heat flow 70
Geothermal heating 70
Geothermal industry 71
Geothermal power plants 71
Geothermal refrigeration 71
Geothermal regions 71
Geothermal reservoirs 71
Geothermal resources 71
Geothermal space heating 71
Geothermal steam 71
Geothermal systems 71
Geothermal wells 71
Geothermometers 71
Geothermometry 71
German 71
German Democratic Republic 71
German Federal Republic 71
Germanium 71
Germany 71
Geysers 71
Geysers Geothermal Field 72
Gibbsite 72
Global 72
Global aspects 72
Gold 72
Government 72
Government policies 72
Grabens 72
Gradient 72
Gradients 72
Granite 72
Granites 72
Granodiorite 72
Graphic 72
Graphic methods 72
Graphics 72
Graphs 72
Gravel 72
Gravel packing 72
Gravimetry 72
Gravitation 72
Gravitation fields 73
Gravitational 73
Gravitational water 73
Gravity 73
Gravity faults 73
Gravity logging 73
Gravity surveys 73
Great Valley 73
Greene County 73
Greenhouses 73
Ground 73

Ground disposal 73
 Ground motion 73
 Ground subsidence 73
 Ground water 73
 Ground water depletion 74
 Ground water level 74
 Ground water recharge 74
 Ground water reservoirs 74
 Ground water withdrawal 74
 Growth 74
 Growth faults 74
 Guidelines 74
 Guides 74
 Guinea 74
 Gulf 74
 Gulf Coast 74
 Gulf Coast Basin 74
 Gulf Coastal Plain 74
 Gulf of Mexico 74
 Gypsum 74

H

Habitats 74
 Halide 74
 Halide minerals 74
 Halides 74
 Halite 74
 Halogens 75
 Halokinesis 75
 Handling 75
 Handling (wastes) 75
 Harris County 75
 Harris Fairway 75
 Hawaii 75
 Hazards 75
 Head 75
 Head buildup 75
 Head drawdown 75
 Heads 75
 Health 75
 Health hazards 75
 Hearings 75
 Heat 76
 Heat balance 76
 Heat budget 76
 Heat capacity 76
 Heat content 76
 Heat discharge 76
 Heat effects 76
 Heat exchangers 76
 Heat extraction 76
 Heat flow 76
 Heat flow surveys 76
 Heat flux 76

Heat insulation 76
 Heat of formation 76
 Heat sources 76
 Heat storage 76
 Heat transfer 77
 Heat transmission 77
 Heated 77
 Heated effluents 77
 Heaters 77
 Heating 77
 Helium 77
 Hematite 77
 Heterogenous 77
 Heterogenous effects 77
 Hexane 77
 Hidalgo County 77
 High concentration 77
 High pressure 77
 High temperature 77
 Histories 77
 Hole diameter 77
 Hole size 77
 Holes 77
 Homes 77
 Hot 77
 Hot dry rock systems 77
 Hot dry rocks 78
 Hot rocks 78
 Hot springs 78
 Hot water 78
 Hot water heating 78
 Hot water systems 78
 Houses 78
 Hudspeth County 78
 Human 78
 Human populations 78
 Hungary 78
 Hurricanes 78
 Hydrates 78
 Hydraulic 78
 Hydraulic conductivity 78
 Hydraulic fracturing 78
 Hydraulics 78
 Hydroblasting 78
 Hydrocarbons 78
 Hydrodynamic 78
 Hydrodynamic pressure 78
 Hydrodynamics 79
 Hydroelectric 79
 Hydroelectric power plants 79
 Hydrogen 79
 Hydrogen inorganic compounds 79
 Hydrogen ion concentration 79
 Hydrogen sulfides 79
 Hydrogeology 79
 Hydrologic properties 79
 Hydrology 79
 Hydrolysis 79

Geopressedured Geothermal Bibliography

Hydropressure 79

Hydrosphere 79

Hydrostatic 79

Hydrostatic head 79

Hydrostatic pressure 79

Hydrostatics 79

Hydrothermal 80

Hydrothermal alteration 80

Hydrothermal convective systems 80

Hydrothermal reservoirs 80

Hydrothermal stage 80

Hydrothermal systems 80

Hydroxide 80

Hydroxide ion concentration 80

Hygroscopic water 80

Information retrieval 82

Information systems 82

Infrared 82

Infrared surveys 82

Inhibitors 82

Initial reservoir pressure 82

Injectability 82

Injection 82

Injection pressure 82

Injection pumps 82

Injection rates 82

Injection wells 83

Injectivity 83

Injuries 83

Inorganic 83

Inorganic compounds 83

Input 83

Input wells 83

Inspection 83

Installation 84

Institutional 84

Institutional aspects 84

Instruments 84

Instruments (measuring) 84

Insulation 84

Insurance 84

Interactions 84

Interference 84

Interference tests 84

Interior 84

Interstitial 84

Interstitial fluid 84

Interstitial fluid pressure 84

Interstitial water 84

Intrusions 84

Intrusions (igneous) 84

Intrusive 84

Intrusive rocks 84

Invertebrates 84

Inverted 85

Inverted folds 85

Investment 85

Iodides 85

Iodine 85

Iodine inorganic compounds 85

Ion 85

Ion exchange 85

Ions 85

Iron 85

Iron inorganic compounds 85

Iron oxides 85

Iron pyrites 85

Irrigation 85

Island arcs 85

Islands 85

Isobutane 85

Isochore 85

Isochore maps 85

I

Iberia Parish 80

Iceland 80

Idaho 80

Igneous 80

Igneous intrusions 80

Igneous rocks 80

Illite 80

Ilmenite 80

Impact 80

Imperial 80

Imperial County 81

Imperial Valley 81

Impermeable 81

Impermeable dry rock 81

Implementation 81

Income 81

Indexes 81

India 81

Indian Ocean 81

Indies 81

Indium 81

Induction 81

Induction logging 81

Industrial 81

Industrial buildings 81

Industrial heating 81

Industrial plants 81

Industry 81

Inert 81

Inert gases 81

Infinite 82

Infinite dilution 82

Inflation 82

Inflow 82

Influx 82

Information 82

Information needs 82

Index

Isogeotherm 85
Isopach 85
Isopach maps 85
Isopiestic 85
Isopiestic measurement 86
Isoporosity 86
Isoporosity maps 86
Isopressure 86
Isopressure maps 86
Isosaline 86
Isosaline maps 86
Isostasy 86
Isotherm 86
Isothermal 86
Isothermal maps 86
Isotropy 86
Italy 86

L

Laboratory 87
Laboratory equipment 87
Laboratory studies 87
Laboratory testing 87
Lafayette Parish 87
LaFourche Parish 89
Lagrange equations 87
Lakes 88
Land 88
Land leasing 88
Land ownership 88
Land pollution 88
Land pollution abatement 88
Land pollution control 88
Land reclamation 88
Land requirements 88
Land subsidence 88
Land titles 88
Land use 88
Lands 88
Larderello Geothermal Field 88
LASL 92
Lateral faults 88
Laterolog 88
Lava 88
Law 89
Laws 89
Law suits 89
Leaching 89
Lead 89
Leading abstract 89
Leakage 89
Leases 89
Leasing 89
Lectures 89
Legal 89
Legal aspects 89
Legislation 90
Liabilities 90
Licenses 90
Licensing 90
Life-cycle cost 90
Limestone 90
Limnology 90
Liquid 90
Liquid dominated hydrothermal systems 90
Liquid effluents 90
Liquid flow 90
Liquid waste disposal 90
Liquid wastes 90
Liquids 90
Literature 90
Literature reviews 90

J

Japan 86
Jeff Davis County 86
Jefferson Davis Parish 86
Jemez 86
Jemez Mountains 86
Jets 86
Jurassic 86
Jurassic Period 86
Juvenile water 86

K

Kaolin 86
Kaolinite 86
Kenedy County 86
Kenedy Fairway 87
Kerogen 87
Kettleman Hills 87
Kg
 sq 87
KGRA 87
KGRAs 87
Kicks 87
Kinetic 87
Kinetic energy 87
Klamath Falls 87
Klamath Falls KGRA 87
Kleberg County 87
Known geothermal resource areas 87
Krypton 87

Geopressured Geothermal Bibliography

Lithification 90
Lithium 91
Lithology 91
Lithosphere 91
Lithostatic 91
Lithostatic pressure 91
Lithotope 91
Live Oak County 91
Live Oak Fairway 91
Livestock 91
Local 91
Local government 91
Location 91
Logging 91
Logging (well) 91
Logs 91
Long Valley 91
Los Alamos 91
Los Alamos Scientific Laboratory 91
Lost circulation 91
Lost Hills 91
Louisiana 92
Low 92
Low concentration 92
Low pressure 92
Low temperature 92
Lubricants 92
Lumps 92

M

Magma 92
Magma reservoirs 92
Magma systems 92
Magmatic water 92
Magnesium 92
Magnesium carbonates 92
Magnesium chlorides 92
Magnesium inorganic compounds 93
Magnesium sulfates 93
Magnetic 93
Magnetic induction logging 93
Magnetic logging 93
Magnetic surveys 93
Magnetotelluric 93
Magnetotelluric surveys 93
Maintenance 93
Management 93
Manganese 93
Manometers 93
Mantle 93
Mantlerock 93
Manuals 93
Mapping 93
Maps 93
Marble 93
Mariculture 93
Marine 94
Marine exploration 94
Marine geology 94
Marine surveys 94
Marine water 94
Market 94
Marysville 94
Marysville KGRA 94
Mass 94
Mass transfer 94
Matagorda County 94
Matagorda Fairway 94
Materials 94
Materials recovery 94
Materials testing 94
Mathematical 94
Mathematical methods 94
Mathematical models 95
Mathematics 95
Matrix (rock) 95
Matter 95
Maturation 95
McAllen Ranch Geothermal Field 95
Measurement 95
Measuring 95
Measuring instruments 95
Measuring methods 96
Mechanical 96
Mechanical properties 96
Mechanics 96
Media 96
Meetings 96
Melting 96
Melting point 96
Membranes 96
Mercury 96
Mesozoic Era 96
Metals 97
Metamorphic 97
Metamorphic rocks 97
Metamorphism 97
Meteoric 97
Meteoric water 97
Meteorology 97
Methane 97
Methods 97
Methylene 97
Methylene blue 97
Methylpropane 97
Mexico 97
Micas 97
Microcline 98
Microearthquakes 98
Microlaterologging 98
Micrologging 98

Index

Microorganisms 98
Micropaleontology 98
Microresistivity 98
Microresistivity logging 98
Microseismicity 98
Microseisms 98
Middle East 98
Migration 98
Military facilities 98
Mineral 98
Mineral composition 98
Mineral deposits 98
Mineral exploration 98
Mineral production 98
Mineral recovery 98
Mineral resources 98
Mineral rights 98
Mineral springs 98
Mineral wastes 98
Mineralization 99
Mineralogy 99
Minerals 99
Miocene 99
Miocene Epoch 99
Mississippi 99
Mississippi River 99
Mississippian Period 99
Mixtures 99
Mobile homes 99
Models 99
Moderate 99
Moderate concentration 99
Moderate pressure 99
Moderate temperature 99
Molal 99
Molybdenum 99
Monitoring 100
Monitoring wells 100
Monitors 100
Monitors (air pollution) 100
Mono-long 100
Mono-long Valley KGRA 100
Monoclines 100
Montana 100
Montgomery Fairway 100
Montmorillonite 100
Mordenite 100
Morrow Formation 100
Motion 100
Mountains 100
Movements 100
Mud 100
Mud flow rate 100
Mud logging 100
Mud lumps 100
Mud volcanoes 100
Mud weight 101
Muds 101
Mudstone 101
Municipal heating 101
Muscovite 101
Mutation zone 101
MWD systems 101

N

Nagaoka 101
Nagaoka Plain 101
National 101
National government 101
National organizations 101
Natural 101
Natural gas 102
Natural gas deposits 102
Natural gas fields 102
Natural gas industry 102
Natural gas liquids 102
Natural gas production 102
Natural gas wells 102
Natural occurrence 102
Natural recharge 102
Natural resources 102
Natural steam 102
Needs 102
Neogene Epoch 102
Neon 103
Net energy 103
Net sand maps 103
Net sand thickness 103
Neutral pressure 103
Neutral stress 103
Neutron 103
Neutron logging 103
Nevada 103
New Guinea 103
New Mexico 103
New Zealand 103
Newton
 sq 103
Nickel 103
Nigeria 103
Nitrogen 103
Nitrogen inorganic compounds 103
Nmr 103
NMR logging 105
Noble 103
Noise 103
Noise pollution 103
Noise pollution abatement 103
Noise pollution control 103
Nonaqueous 103
Nonaqueous solutions 104
Nonlastic 104

Geopressured Geothermal Bibliography

Nonclastic rocks 104
Noncondensable 104
Noncondensable gases 104
Noncondensable 104
Noncondensable gases 104
Nonelectrical 104
Nonelectrical applications 104
Nonmetals 104
Normal faults 104
Norphlet Formation 104
North America 104
North Sea 104
Nozzles 104
Nuclear 104
Nuclear energy 104
Nuclear explosions 104
Nuclear explosives 104
Nuclear logging 104
Nuclear magnetic logging 104
Nuclear magnetic resonance 104
Nuclear power 104
Nuclear power plants 105
Nueces County 105
Numerical 105
Numerical analysis 105
Numerical solution 105
Numerical solutions 105

0

Observation wells 105
Obsidian 105
Occurrence 105
Ocean 105
Ocean basins 105
Ocean floor 105
Ocean ridges 105
Ocean thermal energy conversion 105
Ocean thermal power plants 105
Ocean trenches 105
Ocean water 105
Oceanic crust 105
Oceanography 106
Oceans 106
Odor 106
Office buildings 106
Offshore 106
Offshore sites 106
Offshore surveys 106
Oil 106
Oil drilling 106
Oil fields 106
Oil production 106
Oil saturation 106

Oil shale 106
Oil wells 106
Oklahoma 106
Oligocene 106
Oligocene Epoch 106
Opal 107
Open-cycle systems 107
Operation 107
Opinion 107
Optical 107
Optical properties 107
Optimization 107
Ordovician 107
Ordovician Period 107
Oregon 107
Organic 107
Organic compounds 107
Organic materials 107
Organic matter 107
Organisms 107
Organizations 107
Origin 107
Orthoclase 107
Osmosis 107
Osmotic 107
Osmotic pressure 107
Overburden 107
Overdraft 107
Overpressure 107
Overpressured 107
Overpressured reservoirs 107
Overturned folds 107
Ownership 108
Oxidation 108
Oxidation-reduction potential 108
Oxide 108
Oxide minerals 108
Oxides 108
Oxygen 108
Oxygen inorganic compounds 108

P

P waves 108
Pacific Ocean 108
Packing 108
Pakistan 108
Paleocene 108
Paleocene Epoch 108
Paleoecology 108
Paleomagnetism 108
Paleontology 108
Paleopressure 108
Paleozoic 108
Paleozoic Era 108

Index

Paper 108
Paper industry 108
Parish 109
Park 109
Particles 109
Pascals 109
Patents 109
Pecos 109
Pegmatite 109
Penetration 109
Penetration rate 109
Penetrators 109
Pennsylvanian Period 109
Pentane 109
Percent 109
Performance 109
Performance testing 109
Period 109
Periods 109
Permafrost 109
Permeability 110
Permeability barriers 110
Permeability restoration 110
Permian 110
Permian Period 110
Permits 110
Personnel 110
Petrochemical plants 110
Petroleum 110
Petroleum deposits 110
Petroleum exploration 110
Petroleum geology 110
Petroleum industry 111
Petrology 111
Ph 111
Ph adjustment 111
Ph dependence 111
Ph value 111
Phanerite 111
Phaneritic 111
Phaneritic rocks 111
Phase 111
Phase transformations 111
Philippines 111
Phosphorus 111
Photographs 111
Photometry 111
Phreatic 111
Phreatic water 111
Physical 111
Physical properties 111
Physiography 111
Pieistic water 111
Piezometers 112
Piezometry 112
Pilot plants 112
Pipe 112
Pipe fittings 112
Pipelines 112
Pipes 112
Pitting 112
Pitting corrosion 112
Plagioclases 112
Plain 112
Planet 112
Planetary 112
Plankton 112
Planning 112
Plants 113
Plants (industrial) 113
Plants (power) 113
Plasticity 113
Plate 113
Plate tectonics 113
Platinum 113
Pleasant Bayou No. 1 Well 113
Pleasant Bayou No. 2 Well 113
Pleistocene 113
Pleistocene Epoch 113
Pliocene 113
Pliocene Epoch 113
Plugging 113
Plutonic 113
Plutonic rocks 113
Plutonic water 114
Plutonium 114
Plutons 114
Polar 114
Polar regions 114
Policies 114
Policy 114
Pollution 114
Pollution control 114
Pollution control equipment 115
Pollution law 115
Pollution regulations 115
Polonium 115
Polymerization 115
Polymers 115
Ponds 115
Pools 115
Populations 115
Pore 115
Pore fluid 115
Pore fluid pressure 115
Pore pressure 115
Pore water 115
Porosity 115
Porosity trends 115
Porous 115
Porous media 115
Porphyritic 115
Porphyritic rocks 115
Porphyry 115
Possibilities 116
Post depositional process 116

Geopressured Geothermal Bibliography

Potable 116
Potable water 116
Potassium 116
Potential 116
Potential energy 116
Power 116
Power cycles 117
Power generation 117
Power plants 117
Power potential 117
Power production 117
Power range 1-10gw 117
Power range 1-10kw 117
Power range 1-10mw 117
Power range 10-100gw 117
Power range 100-1000gw 117
Power transmission 117
Precambrian 117
Precambrian Eras 117
Precipitated 117
Precipitation 117
Precipitations 117
Precipitations (atmospheric) 117
Prediction 117
Preparation 117
Presidio County 117
Pressure 118
Pressure (< 1.0 E05 newton
sq m) 118
Pressure (< 1.02 kg
sq m) 118
Pressure (< 1.45 E01 psi) 118
Pressure (> 5.0 E07 newton
sq m) 118
Pressure (> 5.1 E02 kg
sq m) 118
Pressure (> 7.25 E04 psi) 118
Pressure (<1 bar) 118
Pressure (>500 bar) 118
Pressure (back) 118
Pressure (bottom hole) 118
Pressure (differential) 118
Pressure (fluid) 118
Pressure (geostatic) 118
Pressure (pore) 118
Pressure (vapor) 118
Pressure (well head) 118
Pressure (1 bar) 118
Pressure (1.0 E04-5.0 E07 Newton
SQ M) 118
Pressure (1.0 E05 newton
sq m) 118
Pressure (1.0 E05 pascals) 118
Pressure (1.0 E05-1.0 E07
pascals) 118
Pressure (1.01 E07-5.0 E07
pascals) 119
Pressure (1.02 kg
sq m) 119
Pressure (1.02-1.02 E02 kg
sq m) 119
Pressure (1.03-5.1 E02 kg
sq m) 119
Pressure (1.45 E01 psi) 119
Pressure (1.45 E01-1.45 E03
psi) 119
Pressure (1.465 E03-7.252 E04
psi) 119
Pressure (1-100 bar) 119
Pressure (101-500 bar) 119
Pressure buildup 119
Pressure control 119
Pressure decline 119
Pressure dependence 119
Pressure drawdown 119
Pressure drop 119
Pressure gradients 119
Pressure guages 119
Pressure kicks 119
Pressure measurement 119
Pressure release 119
Pressure seals 119
Preventers 119
Prices 119
Proceedings 119
Process 120
Process heat 120
Processes 120
Processing 120
Producing 120
Producing wells 120
Production 120
Production decline curve 120
Production logging 120
Production rate 120
Production testing 120
Productivity 120
Products 120
Profitability 120
Profits 120
Programming 120
Programs 121
Programs (computer) 121
Programs (research) 121
Propagation 121
Propagation (wave) 121
Propane 121
Properties 121
Prospecting 121
Protection 121
Protozoa 121
Provinces 121
Psi 121
Public 121
Public attitudes 121
Public buildings 121

Index

Public health 121
Public lands 121
Public opinion 121
Public relations 121
Public utilities 122
Pumice 122
Pump tests 122
Pumping 122
Pumps 122
Purification 122
Pyrite 122
Pyrites 122
Pyroclastic 122
Pyroclastic rocks 122
Pyrophyllite 122
Pyroxenes 122

Q

Qualitative 122
Qualitative chemical analysis 122
Quality 122
Quantitative 122
Quantitative chemical analysis 122
Quartz 122
Quaternary 122
Quaternary Period 123
Queen City Formation 123

R

Radiation 123
Radiators 123
Radioactive 123
Radioactive wastes 123
Radioactivity 123
Radioactivity logging 123
Radioactivity surveys 123
Radiometric 123
Radiometric surveys 123
Radium 123
Radon 123
Raft River 123
Raft River KGRA 123
Rain 123
Rain water 123
Range 123
Ranges 123
Rankin County 123
Rankine 123
Rankine cycle 123
Rankine cycle power systems 124

Rare 124
Rare earths 124
Rare gases 124
Rate 124
Rates 124
Ratio 124
Ray 124
Rayleigh waves 124
Reaction 124
Reaction heat 124
Reactions 124
Reactions (chemical) 124
Reaming 124
Recent Epoch 124
Recharge 124
Recharge wells 124
Reclamation 124
Reclamation (land) 124
Recluse Field 124
Recommendations 124
Recording 125
Recording systems 125
Recovery 125
Recovery processes 125
Recreational facilities 125
Redox 125
Redox potential 125
Redox reactions 125
Reduction 125
Reentry 125
Refining 125
Reflectance 125
Reflection 125
Refraction 125
Refrigeration 125
Regional 125
Regional analysis 125
Regions 125
Regolith 125
Regulations 126
Regulatory 126
Regulatory guides 126
Rehabilitation 126
Reinjection 126
Reinjection wells 126
Relations 126
Release 126
Reliability 126
Remote 126
Remote control 126
Remote sensing 126
Republics 126
Requirements (land) 126
Requirements (water) 126
Research 126
Research programs 126
Reserves 126
Reservoir 127

Geopressured Geothermal Bibliography

Reservoir characteristics 127
Reservoir compaction 127
Reservoir description 127
Reservoir engineering 127
Reservoir fluids 127
Reservoir mechanics 127
Reservoir pressure 127
Reservoir properties 127
Reservoir rock 127
Reservoir rocks 127
Reservoir temperature 127
Reservoir thickness 127
Reservoirs 127
Reservoirs (geothermal) 128
Reservoirs (magma) 128
Reservoirs (subsurface) 128
Reservoirs (water) 128
Residential 128
Residential buildings 128
Residential structures 128
Resistance 128
Resistant 128
Resistivity 128
Resistivity exploration 128
Resistivity logging 128
Resistivity method 128
Resistivity surveys 128
Resonance 128
Resource 128
Resource assessment 128
Resource availability 128
Resource conservation 128
Resource depletion 128
Resource development 128
Resource location 128
Resource potential 128
Resources 129
Restoration 129
Results 129
Resurgent water 129
Retrieval 129
Retrofitting 129
Return 129
Return on investment 129
Revenue 129
Reverse faults 129
Reversed folds 129
Reviews 129
Rheology 129
Rhyolite 129
Ridges 129
Rift 129
Rift valleys 129
Rights 129
Rigs 130
Rio Grande 130
Rio Grande Embayment 130
Rio Grande Rift 130
Risk assessment 130
Risks 130
River 130
Rivers 130
Rock 130
Rock characteristics 130
Rock compaction 130
Rock compressibility 130
Rock deformation 130
Rock drillability 130
Rock drilling 131
Rock failures 131
Rock fluid interactions 131
Rock matrix 131
Rock mechanics 131
Rock properties 131
Rock salt 131
Rock shear 131
Rock stresses 131
Rocks 131
Rotary 132
Rotary drilling 132
Royalties 132
Rubidium 132
Rural 132
Rural areas 132
Rural populations 132

S

S waves 132
Safeguards 132
Safety 132
Safety engineering 132
Safety standards 132
Saint Mary Parish 132
Sales 132
Saline 132
Saline aquifers 132
Saline water 132
Salinity 132
Salt 132
Salt content 133
Salt deposits 133
Salt domes 133
Salt tectonics 133
Salt water 133
Salt water production 133
Salton Sea 133
Salts 133
Samarium 133
Sampling 133
Sampling methods 133
San Andreas Fault 133
San Joaquin 133

Index

San Joaquin Valley 133
Sand 133
Sand control 133
Sand percent maps 134
Sand pressure 134
Sand production 134
Sand shale ratio 134
Sand thickness 134
Sand trend maps 134
Sandstone 134
Sandstones 134
Saturated 134
Saturated vapor 134
Saturation 134
Scale 134
Scale composition 134
Scale monitoring 134
Scaling 134
Scaling control 134
Schist 134
Schists 134
Scrubbers 135
Scrubbing 135
Sea 135
Sea bed 135
Sea coast 135
Sea floor 135
Sea floor spreading 135
Sea water 135
Seals 135
Seas 135
Seasonal 135
Seasonal variations 135
Seasons 135
Sections 135
Sediment 135
Sediment deposits 136
Sedimentary 136
Sedimentary basins 136
Sedimentary petrology 136
Sedimentary rocks 136
Sedimentary structures 136
Sedimentation 136
Sedimentation rate 136
Sedimentology 136
Sediments 136
Seismic 137
Seismic detection 137
Seismic effects 137
Seismic events 137
Seismic noise 137
Seismic p waves 137
Seismic reflection surveys 137
Seismic refraction surveys 137
Seismic s waves 137
Seismic surveys 137
Seismic waves 137
Seismicity 137
Seismographs 137
Seismology 137
Selection 137
Selenium 138
Self potential logging 138
Self potential surveys 138
Semimetals 138
Semipermeable 138
Semipermeable membranes 138
Sensing 138
Sensitivity 138
Separation 138
Separation processes 138
Separators 138
Sericite 138
Serpentine 138
Serpentines 138
Setting 138
Shale 138
Shale control 138
Shale diapirs 138
Shale treatment 138
Shale water influx 138
Shear 139
Shear properties 139
Shear strength 139
Shear stress 139
Shear waves 139
Shelf 139
Shelters 139
Shock waves 139
Shooting 139
Shores 139
Shortite 139
Shut in pressure 139
Siderite 139
Silica 139
Silica minerals 139
Silicate 139
Silicate minerals 139
Silicon 139
Sill intrusions 139
Silt 139
Silt production 139
Siltstone 139
Silurian 140
Silurian Period 140
Silver 140
Silver inorganic compounds 140
Simulation 140
Site 140
Site preparation 140
Site selection 140
Sites 140
Size 140
Slate 140
Slip 140
Slope 140

Geopressured Geothermal Bibliography

Slope stability 140
Slopes 140
Slurry packing 140
Smackover Formation 140
Snow 140
Social 140
Social impact 140
Socio-economic 140
Socio-economic factors 140
Sociology 140
Sodium 141
Sodium chlorides 141
Sodium inorganic compounds 141
Sodium minerals 141
Sodium sulfates 141
Soil 141
Soil mechanics 141
Soil warming 141
Soils 141
Solar 141
Solar energy 141
Solar energy conversion 141
Solar power plants 141
Solar sea power plants 141
Solid solutions 141
Solid wastes 141
Solidification 141
Solids 141
Solubility 142
Solution 142
Solution gases 142
Solutions 142
Solvents 142
Sonic 142
Sonic logging 142
Sonic velocity 142
Sound 142
Sound velocity 142
Sound waves 142
Sources 142
South America 142
South China Sea 142
Soviet 142
Soviet Union 142
Sp 142
Sp logging 142
Space 143
Space heating 143
Spacing 143
Specific 143
Specific heat 143
Specifications 143
Spectrometric 143
Spectrometric surveys 143
Spectroscopy 143
Sphalerite 143
Sphalerites 143
Spontaneous potential logging 143
Spreading 143
Springs 143
Springs (water) 143
St Mary Parish 143
Stability 143
Stack 143
Stack disposal 143
Stage 144
Stainless 144
Stainless steels 144
Standard pressure 144
Standard temperature 144
Standardization 144
Standards 144
Starr County 144
State 144
State government 144
Statements 144
States 144
Static pressure 144
Static reservoir pressure 144
Statistical 144
Statistical models 144
Steam 145
Steam condensers 145
Steam flashing 145
Steam generators 145
Steam heating 145
Steam power plants 145
Steam separators 145
Steam system 145
Steam turbine power generation 145
Steam turbines 145
Steels 145
Stem 145
Stimulation 145
Stock 145
Stock intrusions 145
Storage 146
Stored energy 146
Storms 146
Strain 146
Strain rate 146
Strains 146
Strata 146
Stratigraphic 146
Stratigraphic control 146
Stratigraphic maps 146
Stratigraphic traps 146
Stratigraphy 146
Stratosphere 146
Streams 146
Strength 146
Strength (shear) 146
Stress 146
Stress corrosion 146
Stresses 147
Strike slip faults 147

Strontium 147
 Strontium inorganic compounds 147
 Structural 147
 Structural control 147
 Structural features 147
 Structural geology 147
 Structural models 147
 Structural traps 147
 Structure 147
 Structures 147
 Structures (geologic) 147
 Studies 147
 Submarine 147
 Submarine geology 147
 Submarine trenches 147
 Subnormal formation pressure 147
 Subnormal pressure 147
 Subpressure 147
 Subsidence 147
 Subsidies 148
 Subsurface 148
 Subsurface disposal 148
 Subsurface mapping 148
 Subsurface reservoirs 148
 Subsurface temperature 148
 Subsurface waters 148
 Subterrene 148
 Subterrene penetrators 148
 Sugar 148
 Sugar cane 148
 Sulfate 148
 Sulfate minerals 148
 Sulfates 148
 Sulfide 148
 Sulfide minerals 148
 Sulfides 149
 Sulfur 149
 Sulfur inorganic compounds 149
 Superheating 149
 Supersaturation 149
 Supplies 149
 Surface 149
 Surface disposal 149
 Surface equipment 149
 Surface monitoring 149
 Surface properties 149
 Surface temperature 149
 Surface waters 149
 Surpressure 149
 Surveys 150
 Suspended 150
 Suspended solids 150
 Swimming pools 150
 Symposia 150
 Synclines 150
 Synclinoria 150
 Synthetic fuels 150
 Systems 150

Systems analysis 151

T

Tabasco 151
 Table 151
 Tables 151
 Tanks 151
 Taxes 151
 Technical 151
 Technical specifications 151
 Techniques 151
 Technology 151
 Technology assessment 151
 Technology utilization 151
 Tectonics 151
 Tectonism 151
 Telluric 151
 Telluric current exploration 151
 Telluric surveys 151
 Tellurium 151
 Temperature 152
 Temperature (<25 deg c) 152
 Temperature (>400 deg c) 152
 Temperature (bottom hole) 152
 Temperature (reservoir) 152
 Temperature (surface) 152
 Temperature (well head) 152
 Temperature (101-400 deg c) 152
 Temperature (25 deg c) 152
 Temperature (26-100 deg c) 152
 Temperature control 152
 Temperature dependence 152
 Temperature distribution 152
 Temperature effects 152
 Temperature gradients 152
 Temperature inversion 152
 Temperature logging 152
 Temperature measurement 152
 Temperature monitoring 153
 Temperature surveys 153
 Tenneco Fee "N" No. 1 Well 153
 Tensile 153
 Tensile properties 153
 Tensile strength 153
 Terrebonne Parish 153
 Terrestrial heat flow 153
 Tertiary 153
 Tertiary Period 153
 Test 153
 Test facilities 153
 Testing 153
 Tests 153
 Texas 154
 Texas Railroad Commission 154

Geopressured Geothermal Bibliography

Texas Water Quality Board 154
Textbooks 154
Thallium 154
Theoretical 154
Theoretical treatments 154
Thermal 154
Thermal capacity 154
Thermal conduction 154
Thermal conductivity 155
Thermal diffusion 155
Thermal diffusivity 155
Thermal effects 155
Thermal efficiency 155
Thermal effluents 155
Thermal equilibrium 155
Thermal expansion 155
Thermal expansivity 155
Thermal exploration methods 155
Thermal gradients 155
Thermal insulation 155
Thermal logging 155
Thermal pollution 155
Thermal power plants 155
Thermal properties 155
Thermal springs 155
Thermal waters 155
Thermodynamic 156
Thermodynamic cycles 156
Thermodynamic properties 156
Thermodynamics 156
Thermoelasticity 156
Thermometers 156
Thermometry 156
Thickness 156
Thickness maps 156
Thorium 156
Thrust faults 156
Tidal 156
Tidal power 156
Tidal power plants 156
Tide 156
Tigre Lagoon Geothermal Field 156
Time dependence 156
Times 156
Tin 156
Titanium 156
Titles 157
Topographic 157
Topographic features 157
Topography 157
Topological 157
Topological mapping 157
Total dissolved solids 157
Total flow systems 157
Towers 157
Toxicity 157
Trace 157
Trace amounts 157
Trace elements 157
Trade 157
Trans-pecos 157
Trans-Pecos Hot Rocks 157
Transfer 157
Transfer (energy) 157
Transfer (heat) 157
Transfer (mass) 157
Transfer pipes 157
Transformations 157
Transition 157
Transition elements 158
Transition temperature 158
Transmissibility 158
Transmission 158
Transmissivity 158
Transportation 158
Transuranium 158
Transuranium elements 158
Traps 158
Travel time 158
Treatment 158
Treatments 158
Trenches 158
Trend 158
Trend analysis 158
Trend maps 158
Trend surface analysis 158
Trends 158
Triassic 158
Triassic Period 158
Tridymite 158
Troposphere 158
Tuff 159
Tungsten 159
Turbine 159
Turbines 159
Turkey 159
Two phase 159
Two phase flow 159

U

Uinta 159
Uinta basin 159
Unconfined aquifers 159
Unconfined ground water 159
Underground 159
Underground disposal 159
Underground explosions 159
Underpressure 159
Union of Soviet Socialist
 Republics 159
United States 159
United States of America 159

Index

Unwatering 159
Uplifts 159
Ural Mountains 159
Urals 159
Uranium 159
Uranium compounds 159
Urban 160
Urban areas 160
Urban populations 160
US 160
US AEC 160
US Atomic Energy Commission 160
US Bureau of Reclamation 160
US DOE 160
US EPA 160
US ERDA 160
US organizations 160
USA 160
Uses 160
USSR 160
Utah 160
Utilities 160
Utilization 160

V

Vadose water 160
Valles Caldera 160
Valles Caldera Geothermal Field 160
Valley 161
Valleys 161
Value 161
Vanadium 161
Vapor 161
Vapor (saturated) 161
Vapor condensers 161
Vapor dominated systems 161
Vapor generators 161
Vapor pressure 161
Vapor separators 161
Vapor solubility 161
Vaporizing 161
Vapors 161
Variations 161
Velocity 161
Velocity of sound 161
Vermillion Parish 161
Vicksburg 161
Vicksburg Formation 161
Viscosity 162
Vitrinite 162
Volatility 162
Volcanic 162
Volcanic activity 162

Volcanic regions 162
Volcanicity 162
Volcanism 162
Volcanoes 162
Volga 162
Volga River 162
Volume 162
Vulcanism 162

W

Wairakei 162
Wairakei Geothermal Field 162
Wairakite 162
Warm springs 162
Warming 162
Washing 162
Washington 162
Waste 163
Waste disposal 163
Waste heat 163
Waste injection 163
Waste management 163
Waste processing 163
Waste storage 163
Waste transportation 163
Waste treatment 163
Waste water 163
Waste water disposal 163
Wastes 164
Water 164
Water analysis 165
Water conditioning 165
Water entry 165
Water fracturing 165
Water inflow 165
Water influx 165
Water jets 165
Water level 165
Water management 165
Water monitoring 165
Water pollution 165
Water pollution abatement 165
Water pollution control 165
Water production 165
Water purification 165
Water quality 166
Water recovery 166
Water requirements 166
Water reservoirs 166
Water resources 166
Water rights 166
Water saturation 166
Water springs 166
Water table 166

Geopressured Geothermal Bibliography

Water table aquifers 166
Water treatment 166
Water vapor 166
Waters 166
Wave propagation 166
Waves 166
Weather 167
Weeks Island 167
Well 167
Well acidizing 167
Well casings 167
Well cementing 167
Well characteristics 167
Well completion 167
Well data 167
Well design 168
Well drilling 168
Well head pressure 168
Well head temperature 168
Well heads 168
Well hole diameter 168
Well information systems 168
Well interference 168
Well logging 168
Well logging equipment 168
Well logs 168
Well monitoring 168
Well plugging 169
Well pressure 169
Well pumps 169
Well reaming 169
Well shooting 169
Well spacing 169
Well stimulation 169
Well temperature 169
Well testing 169
Wellhead prices 169
Wellheads 169
Wells 170
Wells of opportunity 170
West Germany 170
West Indies 170
West Virginia 170
Wet steam systems 170
Wilcox Formation 170
Wild animals 170
Wildcat 170
Wildcat wells 170
Willacy County 170
Wind 170
Wind energy 170
Wind power 170
Wind power plants 170
Wireline operation 170
Withdrawal 170
Working 171
Working conditions 171
Working fluids 171
Wyoming 171

X

Xenon 171

Y

Yellowstone National Park 171
Yield 171

Z

Zapata Fairway 171
Zeolites 171
Zinc 171
Zonation 171
Zones 171
Zoning 171

2

2-methylpropane 171