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Geopressured Geothermal Bibliography

Volume III (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	5
5.2	Term Form	6
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

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

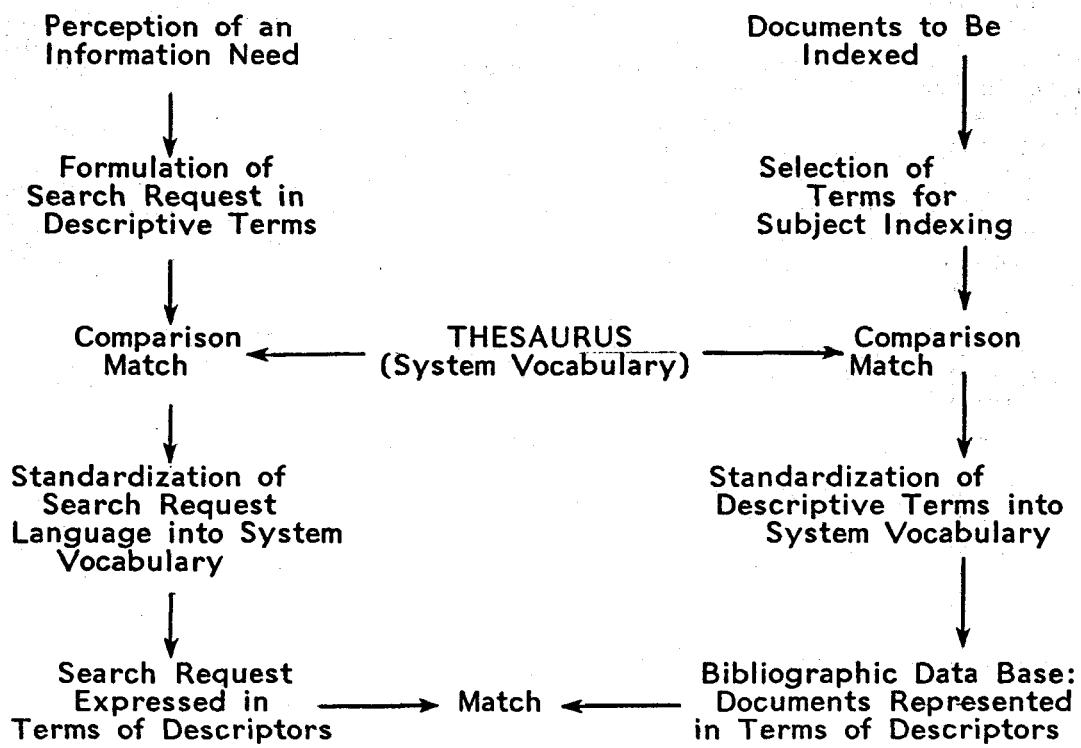


FIGURE 1 Role of a Thesaurus in an Information-Retrieval System

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

Geopressed Geothermal Bibliography

in other thesauri to the term expressing the same concept in the Geopressure Thesaurus.

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, GEOPRESSED REGIONS USE GEOPRESSED 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.

Geopressured Geothermal Bibliography

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 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 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

Geopressured Geothermal Bibliography

"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).

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.

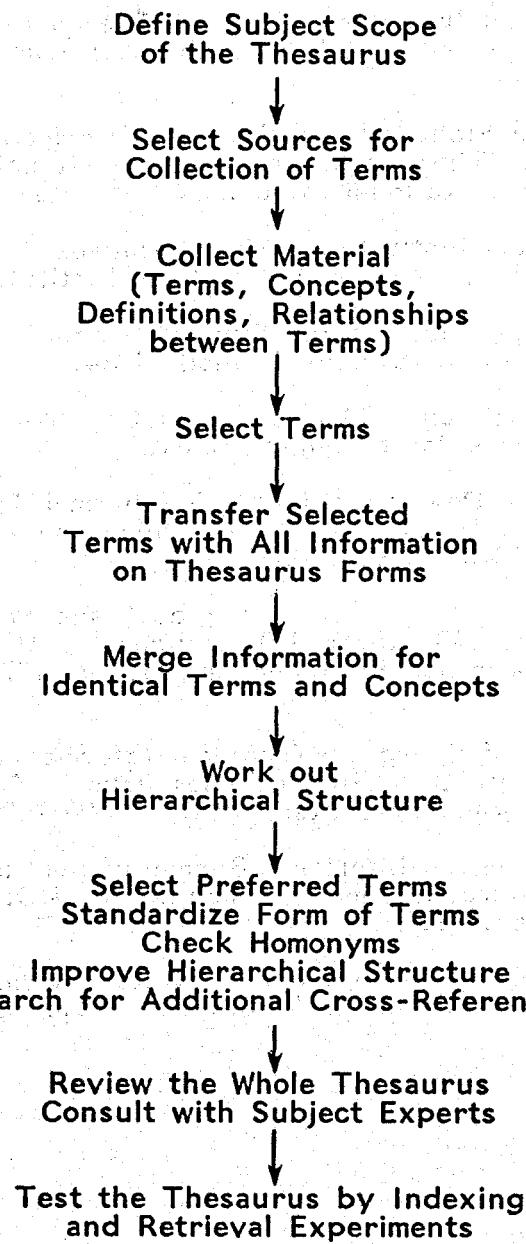


FIGURE 2 Flow of Work in Thesaurus Construction

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

RT Regulations**Agriculture**

RT Crops
 RT Cultivation techniques
 RT Direct energy utilization
 RT Domestic animals
 RT Ecosystems
 RT Irrigation
 RT Plants
 RT Soil warming
 RT Soils

Air

BT1 Gases
 BT2 Fluids
 RT Air analysis
 RT Air cleaning
 RT Air conditioning
 RT Air quality
 RT Earth atmosphere
 RT Gas ejectors
 RT Troposphere
 RT Wind
 Also see Air analysis
 Also see Air monitoring
 Also see Air pollution
 Also see Air pollution abatement
 Also see Air pollution control
 Also see Air pollution monitors
 Also see Cooling
 Also see Cooling systems
 Also see Direct energy utilization
 Also see Gas ejectors
 Also see Gaseous wastes
 Also see Pollution control equipment
 Also see Scrubbers
 Also see Thermal insulation
 Also see Water analysis

Air analysis

BT1 Analysis
 BT1 Gas analysis
 BT2 Chemical analysis methods
 RT Air
 RT Air monitoring
 RT Air pollution
 RT Air pollution monitors
 RT Water analysis

Air cleaning**RT Air****Air conditioning**

RT Air
 RT Cooling
 RT Cooling systems
 RT Direct energy utilization
 RT Thermal insulation

Air ejectors

Use Gas ejectors

Air monitoring

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

Air pollution

BT1 Pollution
 RT Air analysis
 RT Air monitoring
 RT Air pollution abatement
 RT Air pollution control
 RT Air pollution monitors
 RT Air quality
 RT Earth atmosphere
 RT Environmental effects
 RT Gaseous wastes
 RT Hydrogen sulfides
 RT Odor
 RT Scrubbers

Air pollution abatement

BT1 Abatement
 RT Air pollution
 RT Air pollution control
 RT Desulfurization
 RT Pollution control equipment
 RT Scrubbers

Air pollution control

BT1 Pollution control
 BT2 Control
 RT Air pollution
 RT Air pollution abatement
 RT Air pollution monitors

Air pollution monitors

RT Air analysis
 RT Air monitoring
 RT Air pollution
 RT Air pollution control

Air quality

RT Air

Geopressured Geothermal Bibliography

	RT Air pollution	Use Ph value
Alabama		
BT1 USA		Alkanes
BT2 North America		BT1 Hydrocarbons
RT Chattahoochee River		BT2 Organic compounds
RT Chattahoochee Formation		NT1 Ethane
RT Gulf Coast		NT1 Hexane
RT Smackover Formation		NT1 Methane
RT Tennessee River		NT1 Pentane
RT Vicksburg Formation		NT1 Propane
		NT1 2-methylpropane
Alaska		
BT1 USA		Allocations
BT2 North America		RT Budgets
Albite		RT Distribution
BT1 Plagioclases		RT Economic policy
BT2 Feldspars		RT Energy policy
Algorithms		RT Management
RT Computer codes		RT Planning
RT Mathematics		
Alkali		Alloys
See Alkali metals		NT1 Corrosion resistant
		alloys
Alkali metals		NT1 Steels
BT1 Metals		Also see Corrosion
BT2 Elements		Also see Pitting corrosion
NT1 Cesium		
NT1 Francium		Alluvial
NT1 Lithium		See Alluvial deposits
NT1 Potassium		See Alluvium
NT1 Rubidium		
NT1 Sodium		Alluvial deposits
		BT1 Sediment deposits
Alkaline		BT2 Sediments
See Alkaline earth metals		RT Alluvium
Alkaline earth metals		
BT1 Metals		Alluvium
BT2 Elements		BT1 Geologic deposits
NT1 Barium		RT Alluvial deposits
NT1 Beryllium		RT Deltas
NT1 Calcium		RT Sediment deposits
NT1 Magnesium		RT Sediments
NT1 Radium		
NT1 Strontium		Alteration
		See Burial
Alkalinity		See Hydrothermal alteration
		Altitude
		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
- Anhydrite
- BT1 Sulfate minerals
 - BT2 Minerals
 - RT Calcium sulfates
 - RT Gypsum
- Animal
- See Animal shelters
 - See Farm buildings
- Animal shelters
- BT1 Buildings
 - RT Farm buildings
- Animals
- NT1 Aquatic organisms
 - NT1 Domestic animals
 - NT1 Invertebrates
 - NT1 Wild animals
 - RT Biology
 - Also see Agriculture
- Anions
- BT1 Ions
 - RT Electrolysis
- Anisotropy
- RT Distribution
 - RT Isotropy
- Anorthosite
- BT1 Intrusive rocks
 - BT2 Igneous rocks
- Anthropogenic
- See Anthropogenic occurrence
 - See Industry
 - See Natural occurrence
- Anthropogenic occurrence
- RT By-products
 - RT Industry
 - RT Natural occurrence
- Anticlines
- BT1 Folds
 - BT2 Geologic structures
 - NT1 Diaps
 - NT1 Geanticlines
 - RT Anticlinoria
 - RT Petroleum deposits
- RT Salt deposits
- Anticlinoria
- BT1 Fold systems
 - BT2 Geologic structures
 - RT Anticlines
- Antifoulants
- RT Corrosion
 - RT Deposits
 - RT Fouling
- Antimony
- BT1 Metals
 - BT2 Elements
- Apartment buildings
- BT1 Residential buildings
 - BT2 Buildings
- Aphanite
- Use Aphanitic rocks
- Aphanitic
- See Aphanitic rocks
- Aphanitic rocks
- BT1 Igneous rocks
 - BT2 Rocks
- Appalachia
- BT1 USA
 - BT2 North America
- Applications
- Also see Direct energy utilization
 - Use Uses
- Aquaculture
- RT Fishes
 - RT Waste heat
- Aquatic
- See Aquatic ecosystems
 - See Aquatic organisms
 - See Environment
 - See Fishes
- Aquatic ecosystems
- BT1 Ecosystems
 - RT Aquatic organisms
 - RT Environment
 - RT Fishes
 - RT Hydrosphere
 - RT Limnology
- Aquatic habitats

- 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
- Arcts
- 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	Use Ph value
Bar See Elevated pressure See High pressure See Low pressure See Moderate pressure See Standard pressure	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
Barite BT1 Sulfate minerals BT2 Minerals RT Barium sulfates	
Barium BT1 Alkaline earth metals BT2 Metals Also see Barium inorganic compounds	Basins BT1 Geologic structures NT1 Ocean basins NT1 Sedimentary basins RT Artesian water RT Water reservoirs Also see Artesian basins Also see Ground water
Barium inorganic compounds NT1 Barium sulfates	
Barium sulfates BT1 Barium inorganic compounds BT1 Sulfates BT2 Sulfur inorganic compounds BT2 Oxygen inorganic compounds RT Barite	Batholiths BT1 Igneous intrusions RT Discordant intrusions RT Stock intrusions
Barrel See Coring equipment	Bays RT Seas
Barrier See Stratigraphic traps	
Barriers See Permeability barriers	Bearings
Basalt BT1 Extrusive rocks BT2 Igneous rocks	Bed See Earth crust See Formation thickness See Marine geology See Sea bed See Seas See Sediments
Baseline Ecology BT1 Ecology	Bed thickness Use Formation thickness
Basicity	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**
- Binary**
See **Binary cycle power generation**
See **Binary cycles**
See **Gas turbine power generation**
See **Geothermal energy conversion**
See **Thermodynamic cycles**
- Binary cycle power generation**
BT1 **Power generation**
RT **Binary cycles**
RT **Gas turbine power generation**
- Binary cycles**
RT **Binary cycle power generation**
RT **Thermodynamic cycles**
- Binary fluid systems**
RT **Gas turbine power generation**
RT **Geothermal energy conversion**
RT **Thermodynamic cycles**
- Biological**
See **Biological effects**
See **Biology**
See **Environmental effects**
- Biological effects**
BT1 **Effects**
RT **Biology**
RT **Environmental effects**
RT **Toxicity**
- Biology**
NT1 **Ecology**
RT **Animals**
RT **Biological effects**
RT **Biosphere**
RT **Ecosystems**
RT **Fishes**
RT **Microorganisms**
RT **Plants**
- Biomass**
NT1 **Plants**
- Biosphere**
RT **Biology**
RT **Ecosystems**
RT **Environment**
- RT Populations**
- Biostratigraphy**
BT1 **Stratigraphy**
RT **Foraminifera**
RT **Paleoecology**
RT **Paleontology**
RT **Zonation**
- Biotite**
BT1 **Micas**
BT2 **Silicate minerals**
- Biotope**
Use **Depositional environment**
- Bismuth**
BT1 **Metals**
BT2 **Elements**
- Bits**
See **Drill bits**
See **Drill pipes**
See **Drills**
See **Well drilling**
- Blocks**
Also see **Fault blocks**
Use **Geologic structures**
- Blowout**
See **Blowout preventers**
See **Blowouts**
See **Natural gas wells**
See **Oil wells**
- Blowout preventers**
RT **Blowouts**
RT **Drilling equipment**
RT **Natural gas wells**
RT **Oil wells**
- 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
- Boiling**
BT1 Phase transformations
RT Boilers
RT Evaporation
RT Heat transfer
RT Heating
RT Steam generators
RT Two phase flow
- Bop**
Use Blowout preventers
- Borehole**
See Hole diameter
- Borehole diameter**
Use Hole diameter
- Boreholes**
RT Jets
RT Rock drilling
RT Subterrene penetrators
RT Well drilling
RT Well logging
RT Wells
- Boring**
Use Well drilling
- Borneo**
BT1 Islands
- Boron**
BT1 Semimetals
BT2 Elements
Also see Boron inorganic compounds
- Boron inorganic compounds**
- Bottom hole pressure**
BT1 Well characteristics
RT Back pressure
RT Formation testing
RT Pressure measurement
RT Reservoir pressure
RT Well data
RT Wells
- Bottom hole pumps**
- Use Downhole pumps
- Bottom hole temperature**
BT1 Well characteristics
RT Formation testing
RT Reservoir temperature
RT Temperature logging
RT Well testing
RT Well data
RT Wells
- Bound water**
Use Hygroscopic water
- Brackish**
See Brackish water
See Brines
See Salinity
See Salt water
See Subsurface waters
- Brackish water**
BT1 Water
RT Brines
RT Salinity
RT Salt water
RT Subsurface waters
- Brayton cycle**
BT1 Thermodynamic cycles
RT Brayton cycle power generation
RT Brayton cycle power systems
RT Gas turbine power generation
- Brayton cycle power generation**
RT Brayton cycle
- Brayton cycle power systems**
RT Brayton cycle
RT Power generation
- Brazoria County**
BT1 Texas
BT2 Gulf Coast
NT1 Austin Bayou Prospect
- Brewster County**
BT1 Texas
BT2 Gulf Coast
- Brine**
See Brines
See Liquid wastes
See Ph adjustment

- 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
- 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**
- Cadmium**
BT1 Metals
BT2 Elements
- Calcasieu Parish**
BT1 Louisiana
BT2 Gulf Coast
- Calcite**
BT1 Carbonate minerals
BT2 Minerals
RT Calcium carbonates
RT Limestone
RT Marble
- 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
- Calcium carbonates**
BT1 Calcium inorganic compounds
BT1 Carbonates
BT2 Oxygen inorganic compounds
RT Calcite
RT Dolomite
- Calcium chlorides**
BT1 Calcium inorganic compounds
BT1 Chlorides
BT2 Chlorine inorganic compounds
- Calcium inorganic compounds**
NT1 Calcium carbonates
NT1 Calcium chlorides
NT1 Calcium sulfates
- Calcium sulfates**
BT1 Calcium inorganic compounds
BT1 Sulfates
BT2 Oxygen inorganic compounds
BT2 Sulfur inorganic compounds
RT Anhydrite
- RT Gypsum**
- Calculation**
See Mathematical methods
See Measurement
See Measuring methods
See Numerical solution
- Calculation methods**
RT Mathematical methods
RT Measurement
RT Measuring methods
RT Numerical solution
- Calculations**
See Computer codes
See Computers
See Data analysis
See Numerical analysis
See Numerical solution
- Calibration**
RT Accuracy
RT Measuring instruments
RT Measuring methods
RT Sensitivity
- 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
- Caliper**
See Caliper logging
See Hole diameter
- Caliper logging**
BT1 Well logging
RT Hole diameter
- 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	RT Well completion
Carbonates	Casings
BT1 Carbon inorganic compounds	See Well casings
BT1 Oxygen inorganic compounds	See Well design
NT1 Calcium carbonates	See Well drilling
RT Carbonate minerals	See Wells
Also see Calcite	
Also see Calcium carbonates	
Also see Dolomite	
Also see Magnesium carbonates	
Carboniferous	Caspian Basin
See Carboniferous Periods	RT Caspian Sea
Carboniferous Periods	RT USSR
BT1 Paleozoic Era	
BT2 Geologic times	
NT1 Mississippian Period	
NT1 Pennsylvanian Period	
Caribbean	Caspian Sea
See Caribbean Sea	BT1 Lakes
Caribbean Sea	BT2 Surface waters
BT1 Atlantic Ocean	RT Caspian Basin
BT2 Seas	RT USSR
NT1 Gulf of Mexico	
Carnot	Catagenesis
See Carnot cycle	RT Diagenesis
Carnot cycle	RT Sediments
BT1 Thermodynamic cycles	
Carpathian Basin	Cations
BT1 Hungary	BT1 Ions
BT2 Europe	RT Electrolysis
Case	
See Case histories	Cavitation
See Field studies	RT Descaling
Case histories	RT Erosion
BT1 Document types	RT Fluid flow
RT Field studies	RT Pitting corrosion
Casing programs	
BT1 Design	Cavitation erosion
RT Well casings	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**
- 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**
- See Diagrams**
- 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**
- 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
- RT Limestone**
- 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

Geopressured Geothermal Bibliography

- RT Well logging equipment
- Coal reserves
 - BT1 Reserves
 - RT Coal
 - RT Coal deposits
- Coalinga
 - BT1 California
 - BT2 Gulf Coast
- Coast
 - See California
 - See Coast ranges
 - See Gulf Coast
 - See Oregon
 - See Shores
- Coast ranges
 - BT1 Mountains
 - RT California
 - RT Oregon
- Coastal
 - See Coastal waters
 - See Gulf Coast
 - See Seas
 - See Shores
- Coastal regions
 - RT Coastal waters
 - RT Shores
- Coastal waters
 - BT1 Surface waters
 - RT Coastal regions
 - RT Continental shelf
 - RT Estuaries
 - RT Offshore sites
 - RT Seas
 - RT Shores
- Coatings
 - RT Corrosion inhibitors
 - RT Corrosion protection
- Codes
 - See Computer codes
 - See G codes
- Coefficient
 - See Diffusivity
 - See Thermal expansivity
- Coefficient of thermal expansion
- Use Thermal expansivity
- Collars
 - See Drill collars
 - See Well drilling
- Collecting
 - See Collecting tanks
- Collecting tanks
 - BT1 Surface equipment
 - BT2 Equipment
- Colorado
 - BT1 USA
 - BT2 North America
 - RT Rio Grande Rift
- Colorado County
 - BT1 Texas
 - BT2 USA
 - BT3 North America
- Colorado Fairway
 - BT1 Texas
 - BT2 USA
 - BT3 North America
- Colorimetry
 - Use Absorption spectroscopy
- Combined
 - See Combined cycle power plants
 - See Combined cycle power generation
 - See Thermodynamic cycles
- Combined cycle power generation
 - BT1 Power generation
- Combined cycle power plants
 - BT1 Thermal power plants
 - BT2 Power plants
- Combined cycles
 - RT Thermodynamic cycles
- Commercial
 - See Commercial buildings
- Commercial buildings
 - BT1 Buildings

- NT1 Office buildings**
- Commercialization**
- RT Demonstration programs
 - RT Market
 - RT Technology utilization
- Communities**
- RT Demography
 - RT Ecosystems
 - RT Populations
 - RT Public health
 - RT Socio-economic factors
- 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
- RT Standards**
- 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
- 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
- Compressibility**
- BT1 Mechanical properties
 - RT Fluid properties

Geopressured Geothermal Bibliography

- RT Piezometers
- Compression
 - RT Compaction
 - RT Consolidation
 - RT Rock deformation
- Compressors
 - RT Pumps
- Computer
 - See Computer codes
 - See Computers
 - See Data analysis
 - See Numerical analysis
 - See Numerical solution
 - See Programming
- Computer calculations
 - RT Computerized simulation
 - RT Computer codes
 - RT Computers
 - RT Data analysis
 - RT Numerical analysis
 - RT Numerical solution
- Computer codes
 - NT1 G codes
 - RT Algorithms
 - RT Computer calculations
 - RT Computers
 - RT Mathematical models
 - RT Programming
 - RT Simulation
- Computer programming
 - Use Programming
- Computer programs
 - Use Computer codes
- Computerized simulation
 - BT1 Simulation
 - RT Computer calculations
- Computers
 - RT Computer calculations
 - RT Computer codes
 - RT Data processing
- RT Programming
- 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
- Concentration (<0.01 molal)
 - Use Low concentration
- Concentration (>1.0 molal)
 - Use High concentration
- Concentration (infinite dilution)
 - Use Infinite dilution
- Concentration (0.01-0.10 molal)
 - Use Moderate concentration
- Concentration (0.10-1.0 molal)
 - Use Elevated concentration
- Concentration dependence
 - RT Chemical composition
 - RT Elevated concentration
 - RT High concentration
 - RT Low concentration
 - RT Moderate concentration
 - RT Solutions
- Concordant
 - See Concordant intrusions
- 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

Continental

See Coastal waters
See Continental crust
See Continents
See Marine geology
See Oceanic crust
See Plate tectonics
See Rift valleys
See Seas

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

Contour

See Contour maps

Contour maps

BT1 Maps
BT2 Document types

Contracts

RT Agreements

RT Fabrication

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

Convection

BT1 Heat transfer
BT2 Energy transfer
RT Convection cells
RT Mass transfer
Also see Earth mantle
Also see Plate tectonics
Also see Tectonics

Convection cells

RT Convection
RT Earth mantle
RT Plate tectonics
RT Tectonics

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
 - 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
- Corrosion**
 - BT1 Chemical reactions
 - NT1 Crevice corrosion
 - NT1 Pitting corrosion
 - NT1 Scaling
 - NT1 Stress corrosion
 - RT Abrasion
 - 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
- RT Corrosion monitoring**
- Corrosion protection**
 - RT Coatings
 - RT Corrosion
 - RT Corrosion inhibitors
 - RT Corrosion monitoring
 - RT Crevice corrosion
 - RT Stainless steels
- Corrosion resistance**
 - RT Corrosion
 - RT Crevice corrosion
 - RT Stainless steels
- Corrosive**
 - See Corrosive effects
- Corrosive effects**
 - BT1 Effects
 - RT Brines
 - RT Corrosion monitoring
- Coso Hot Springs KGRA**
 - BT1 KGRAs
 - BT1 California
 - BT2 USA
 - RT Geothermal fields
- Cost**
 - NT1 Life-cycle cost
 - RT Budgets
 - RT Capital
 - RT Charges
 - RT Cost benefit analysis
 - RT Financing
 - RT Inflation
 - RT Investment
 - RT Royalties
 - Also see Comparative evaluations
 - Also see Economics
- Cost benefit analysis**
 - RT Comparative evaluations
 - RT Cost
 - RT Economics
 - RT Life-cycle cost
- Costs**

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

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

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**
- Descaling**
RT Cavitation
RT Scale monitoring
- Description**
See Well information systems
See Well logging
- Design**
NT1 Casing programs
NT1 Well design
RT Feasibility studies
RT Planning
RT Specifications
- Desulfurization**
RT Air pollution abatement
RT Recovery processes
- Detection**
RT Data acquisition
RT Exploration
RT Monitoring
Also see Seismic detection
Also see Seismic s waves
- Determination**
See Geochronology
- Development**
RT Exploitation
RT Leasing
Also see US ERDA
- Devonian**
See Devonian Period
- Devonian Period**
BT1 Paleozoic Era
BT2 Geologic times
- Dewatering**
RT Deep wells
RT Dehydration
RT Drawdown
RT Evaporation
RT Ground water
RT Pumping
RT Wells
- DeWitt County**
BT1 Texas
BT2 USA
- BT3 North America**
- DeWitt Fairway**
BT1 Texas
BT2 USA
BT3 North America
- Diabase**
BT1 Intrusive rocks
BT2 Igneous rocks
- Diagenesis**
RT Burial
RT Catagenesis
RT Compaction
RT Lithification
- Diagrams**
BT1 Document types
RT Maps
RT Photographs
- Diameter**
NT1 Hole diameter
- Diapirism**
RT Salt domes
- Diapirs**
BT1 Anticlines
BT2 Folds
NT1 Shale diapirs
RT Salt domes
- Diastrophism**
BT1 Geologic processes
RT Faults
RT Tectonics
- Dickite**
BT1 Kaolin
BT2 Clay minerals
- Dielectric**
See Dielectric constant
- 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	Directional See Directional drilling
Diffusivity BT1 Hydrologic properties RT Diffusion Also see Thermal diffusivity Also see Thermal insulation	Directional drilling BT1 Drilling RT Enhanced recovery RT Geothermal wells RT Well drilling
Dike intrusions BT1 Discordant intrusions BT2 Igneous intrusions	Directory BT1 Document types
Dikes Use Dike intrusions	Discharge See Flow rate See Heat flow See Waste heat
Dilute See Low concentration	Discharge rate Use Flow rate
Dilute solutions Use Low concentration	Discordant See Batholiths See Discordant intrusions
Dilution RT Infinite dilution Also see Low concentration Also see Solutions Also see Trace amounts	Discordant intrusions BT1 Igneous intrusions NT1 Dike intrusions RT Batholiths RT Stock intrusions
Dimensions NT1 Depth NT1 Thickness RT Distance	Dispersions RT Solids
Dioxide See Carbon dioxide See Dissolved gases	Displacements RT Faults
Dip See Dipmeter logging	
Dip logging Use Dipmeter logging	
Dipmeter	

RT Strains

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

Disposal formations

- RT Disposal wells
- RT Formation damage
- RT Waste disposal
- RT Well design

Disposal wells

- BT1 Injection wells
- BT2 Wells
- RT Disposal formations
- RT Waste disposal
- RT Well design

Dissolved

- See Dissolved gases
- See Dissolved salts
- See Dissolved solids
- See Water analysis

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

RT Water analysis

Dissolved salts

- BT1 Salts

Dissolved solids

- BT1 Solids
- RT Dissolved gases
- RT Salinity
- RT Salts
- RT Solid wastes
- RT Solubility
- RT Solutions
- RT Suspended solids
- RT Water analysis

Distance

- RT Depth
- RT Dimensions
- RT Thickness

Distribution

- NT1 Geographical distribution
- NT1 Temperature distribution
- RT Abundance
- RT Allocations
- RT Anisotropy
- RT Isotropy
- Also see Geography
- Also see Temperature surveys

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**
- Drilling rigs**
- RT Drill pipes
 - RT Drilling
 - RT Drilling equipment
 - RT Drills
 - RT Natural gas
 - RT Petroleum
 - RT Well drilling
- Drills**
- BT1 Drilling equipment
 - BT2 Equipment
 - RT Drill bits
 - RT Drill cores
 - RT Drill pipes
 - RT Drilling fluids
 - RT Drilling rigs
 - RT Rock drilling
 - RT Well drilling
- Drinking water**
- BT1 Water
 - RT Fresh water
 - RT Water quality
- Drive mechanism**
- Drop**
- See Flow rate
 - See Fluid flow
 - See Isopiestic measurement
 - See Pressure drop
 - See Pressure release
- Dry rock systems**
- See Hot dry rock systems
- Dry rocks**
- See Hot dry rock systems
- Dry steam systems**
- Use Vapor dominated systems
- Duval Fairway**
- BT1 Texas
 - BT2 USA
 - BT3 North America
- DOE**
- See US DOE
- See US ERDA**
- Earth**
- See Air
 - See Air pollution
 - See Alkaline earth metals
 - See Atmospheric precipitations
 - See Continental crust
 - See Earth atmosphere
 - See Earth core
 - See Earth crust
 - See Earth mantle
 - See Earth movements
 - See Earth penetrators
 - See Earth planet
 - See Earth planetary structure
 - See Environment
 - See Geography
 - See Geology
 - See Geophysics
 - See Ground motion
 - See Meteorology
 - See Oceanography
 - See Seismic waves
 - See Seismology
 - See Telluric surveys
 - See Topography
- Earth atmosphere**
- NT1 Stratosphere
 - NT1 Troposphere
 - RT Air
 - RT Air pollution
 - RT Atmospheric precipitations
 - RT Earth planet
 - RT Environment
 - RT Meteorology
- Earth core**
- 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
- 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
- structure
- 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
El Paso County
 BT1 Texas
 BT2 Gulf Coast
El 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	RT Geothermal exploration
Electrical properties	Elements
BT1 Physical properties	NT1 Metals
NT1 Dielectric constant	NT1 Nonmetals
NT1 Electric conductivity	NT1 Semimetals
Electrical resistivity	NT1 Transuranium elements
Use Electric conductivity	Also see Trace amounts
Electrical surveys	Also see Transition elements
BT1 Geophysical surveys	Elevated
BT2 Exploration methods	See Elevated concentration
NT1 Electromagnetic surveys	See Elevated pressure
NT1 Magnetotelluric surveys	See Elevated temperature
NT1 Resistivity surveys	Elevated concentration
NT1 Self potential surveys	RT Concentration dependence
NT1 Telluric surveys	Elevated pressure
RT Electrical logging	RT Pressure dependence
RT Electrical exploration	Elevated temperature
RT Geothermal exploration	RT Temperature dependence
RT Resistivity logging	Elongation
Electrodialysis	RT Deformation
BT1 Separation processes	RT Thermal expansion
RT Demineralization	Embayment
RT Desalination	See Rio Grande Embayment
RT Diffusion	Emission
RT Mass transfer	See Emission spectroscopy
RT Permeability	Emission spectroscopy
RT Semipermeable membranes	BT1 Measuring methods
Electrolysis	Empirical
RT Anions	See Empirical equations
RT Cations	Empirical equations
RT Ions	BT1 Equations
Electromagnetic	RT Mathematical models
See Electromagnetic radiation	RT Numerical solutions
See Electromagnetic surveys	
Electromagnetic radiation	
NT1 Gamma radiation	
Electromagnetic surveys	
BT1 Electrical surveys	
BT2 Geophysical surveys	
NT1 Magnetotelluric surveys	

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
- Era**
See Cenozoic Era
See Mesozoic Era
See Paleozoic Era
- Eras**
See Precambrian Eras
- Erosion**
RT Abrasion
RT Cavitation
RT Corrosion
- Errors**
RT Accidents
- Estimation**
See Geochronology
- Estuaries**
BT1 Surface waters
RT Coastal waters
RT Fresh water
RT Offshore sites
RT Rivers
RT Salinity
RT Sea water
RT Seas
- Ethane**
BT1 Alkanes
BT2 Hydrocarbons
- Eugene**
See Eugene Island Block 18 Field
- Eugene Island Block 18 Field**
BT1 Louisiana
BT2 Gulf Coast
- 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
- Europium**
BT1 Rare earths
- BT2 Metals**
- Evaluation**
RT Comparative evaluations
RT Correlation
RT Forecasting
RT Profitability
- Evaluations**
See Comparative evaluations
- Evaporation**
BT1 Phase transformations
NT1 Flashing
RT Boiling
RT Dehydration
RT Dewatering
RT Evaporators
RT Vapors
RT Volatility
- Evaporators**
RT Desalination
RT Evaporation
RT Heat exchangers
- Evaporites**
BT1 Nonclastic rocks
BT2 Sedimentary rocks
RT Precipitation
- Evaporitic**
See Evaporites
- Evaporitic rocks**
Use Evaporites
- Events**
See Seismic events
- Evolution**
- Exchange**
See Ion exchange
- 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
- Expansivity**
Also see Thermal expansion
Use Thermal expansivity
- 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
- Experimental results**
RT Data
RT Document types
RT Field studies
RT Graphs
RT Laboratory studies
RT Tables
RT Theoretical treatments
- Experimental studies**
Use Experimental results
- Experimental techniques**
Use Measuring methods
- Exploitation**
RT Development
RT Energy consumption
RT Engineering geology
RT Heat extraction
RT Leasing
RT Natural gas industry
RT Petroleum industry
RT Reserves
- RT Uses**
- 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
- Exploration methods**
NT1 Aerial surveys
NT1 Geochemical surveys
NT1 Geological surveys
NT1 Geophysical surveys
RT Exploration
RT Field studies
RT Subsurface mapping
- Exploratory**
See Exploratory wells
- Exploratory wells**
BT1 Wells
RT Exploration
- 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
- Explosive**
See Explosive stimulation
- Explosive stimulation**
BT1 Well stimulation
BT2 Reservoir engineering

Geopressured Geothermal Bibliography

- RT Explosions
- Explosives
- NT1 Chemical explosives
 - NT1 Nuclear explosives
 - RT Explosions
- Extraction
- Also see Exploitation
 - Also see Heating
 - Use Heat extraction
- Extrusive
- See Extrusive rocks
- Extrusive rocks
- BT1 Igneous rocks
 - BT2 Rocks
 - NT1 Andesite
 - NT1 Basalt
 - NT1 Pyroclastic rocks
 - NT1 Rhyolite
- EPA
- Use US EPA
- ERDA
- Use US ERDA
- Fabrication
- RT Contracts
- Facies
- RT Facies maps
 - RT Sand shale ratio
- Facies maps
- BT1 Stratigraphic maps
 - BT2 Maps
 - NT1 Net sand maps
 - NT1 Sand percent maps
 - RT Calstic ratio
 - RT Calstic ratio maps
 - RT Facies
 - RT Sand trend maps
- Facilities
- See Aquifer tests
 - See Comparative evaluations
 - See Field studies
 - See Public lands
- Factors
- See Economics
- See Socio-economic factors
- Failures
- NT1 Rock failures
 - RT Accidents
 - RT Corrosion
 - RT Fracture properties
 - RT Hazards
 - RT Reliability
 - RT Safety
 - RT Systems analysis
- Fairfax Foster Sutter No. 2 Well
- BT1 Louisiana
 - BT2 USA
 - BT3 North America
- Fairway
- See Fairway analysis
- Fairway analysis
- Farm animals
- Use Domestic animals
- Farm buildings
- BT1 Buildings
 - RT Animal shelters
- Fatigue
- BT1 Mechanical properties
- Fault
- See Environmental effects
 - See Fault blocks
 - See Fault systems
 - See Fault zones
 - See Faults
 - See Rift valleys
 - See San Andreas Fault
 - See Waste disposal
- Fault activation
- RT Environmental effects
 - RT Fault systems
 - RT Faults
 - RT Waste disposal
- Fault blocks
- BT1 Geologic structures
 - RT Fault systems
 - RT Faults

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

Geopressured Geothermal Bibliography

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

Fluid

See Chemical reactions
See Circulating rate
See Flow rate
See Fluid flow
See Fluid mechanics
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 Two phase flow
RT Cavitation
RT Flow models
RT Flow rate
RT Flowmeters
RT Fluid properties
RT Fluid mechanics
RT Fluids
RT Hydraulics
RT Hydrodynamics
RT Jets
RT Leakage
RT Mass transfer
RT Nozzles
RT Pressure drop
RT Rheology
RT Viscosity

Fluid mechanics

NT1 Hydrodynamics
RT Fluid flow
RT Fluids
RT Hydraulics

RT Hydrostatics

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	RT Possibilities
Fluorite BT1 Halide minerals BT2 Minerals	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
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	Formation damage RT Disposal formations RT Permeability RT Plugging RT Well completion
Food processing	Formation fracturing Use Fracturing
Foraminifera BT1 Protozoa BT2 Microorganisms BT2 Invertebrates RT Biostratigraphy RT Paleontology	Formation heat BT1 Reaction heat BT2 Enthalpy
Forecasting RT Correlation RT Economic policy RT Evaluation RT Management RT Market	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
- Formation thickness
BT1 Thickness
BT2 Dimensions
RT Isopach
RT Overburden
RT Stratigraphy
- Formation water
Use Interstitial water
- Formations
See Disposal formations
See Disposal wells
See Fractured reservoirs
See Waste disposal
See Well design
- Fossil fuel power plants
BT1 Thermal power plants
BT2 Power plants
- Fossil fuels
BT1 Energy sources
BT1 Fuels
NT1 Coal
NT1 Natural gas
NT1 Petroleum
RT Oil shale
- Fouling
RT Antifoulants
RT Corrosion
RT Demineralization
RT Deposition
RT Plugging
RT Scaling
RT Water pollution
- Fracture
See Ffg
See Fracture properties
See Rock properties
- Fracture flow
- Fracture properties
BT1 Mechanical properties
RT Cracks
RT Failures
RT Fractures
RT Rock properties
- Fractured formations
- Use Fractured reservoirs
- Fractured reservoirs
BT1 Reservoir rocks
BT2 Rocks
- Fractures
RT Cracks
RT Deformation
RT Fissures
RT Fracture properties
- Fracturing
NT1 Hydraulic fracturing
Also see Reservoir engineering
- Fragmental rocks
Use Clastic rocks
- Franciscan
See California
See Cretaceous Period
See Jurassic Period
See Mesozoic Era
- Franciscan Formation
RT California
RT Cretaceous Period
RT Jurassic Period
RT Mesozoic Era
- Francium
BT1 Alkali metals
BT2 Metals
- Frasch sulfur process
BT1 Recovery processes
RT Sulfur
- Free ground water
Use Ground water
- 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**
- Freezing potential**
- BT1 Physical properties**
- Fresh water**
- BT1 Water**
- RT Drinking water**
- RT Estuaries**
- RT Lakes**
- RT Limnology**
- RT Salt water**
- RT Water reservoirs**
- Friction**
- Frio**
- See **Louisiana**
- See **Oligocene Epoch**
- See **Texas**
- Frio Formation**
- NT1 Brazoria Fairway**
- RT Louisiana**
- RT Oligocene Epoch**
- RT Texas**
- Frost**
- BT1 Atmospheric precipitations**
- BT2 Meteorology**
- RT Permafrost**
- RT Snow**
- Fuel**
- See **Fossil fuel power plants**
- See **Fuel gas**
- See **Fuel leasing**
- Fuel gas**
- BT1 Gases**
- BT2 Fluids**
- BT1 Fuels**
- BT1 Energy sources**
- BT1 Natural gas**
- RT Synthetic fuels**
- Fuel gas**
- BT1 Energy sources**
- BT1 Fuels**
- BT1 Gases**
- BT2 Fluids**
- NT1 Natural gas**
- Fuel leasing**
- BT1 Leasing**
- Fuels**
- BT1 Fossil fuels**
- BT2 Coal**
- BT2 Natural gas**
- BT2 Petroleum**
- BT1 Fuel gas**
- BT1 Synthetic fuels**
- NT1 Natural gas**
- Fuels**
- NT1 Fossil fuels**
- NT1 Fuel gas**
- Also see **Fossil fuels**
- Fumaroles**
- RT Hydrothermal systems**
- RT Thermal waters**
- Functional**
- See **Comparative evaluations**
- See **Functional models**
- See **Simulation**
- Functional models**
- BT1 Models**
- NT1 Pilot plants**
- RT Comparative evaluations**
- RT Simulation**
- G codes**
- BT1 Computer codes**
- Gabbro**
- BT1 Intrusive rocks**
- BT2 Igneous rocks**
- Gages**
- See **Pressure gages**
- 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
- Gamma radiation
BT1 Electromagnetic radiation
RT Gamma ray logging
RT Gamma spectroscopy
- Gamma ray logging
BT1 Radioactivity logging
BT2 Well logging
RT Gamma radiation
RT Gamma spectroscopy
- Gamma ray surveys
BT1 Radioactivity surveys
BT2 Geophysical surveys
RT Gamma spectroscopy
- Gamma spectroscopy
BT1 Measuring methods
RT Gamma radiation
RT Gamma ray logging
RT Gamma ray surveys
RT Spectrometric surveys
- Gamma-gamma logging
BT1 Radioactivity logging
BT2 Well logging
- 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 cap gases
- Use Dissolved gases
- Gas caps
RT Natural gas
- Gas chromatography
BT1 Chromatography
BT2 Separation processes
BT2 Chemical analysis methods
RT Gas analysis
RT Quantitative chemical analysis
- Gas condensates
RT Consensates
RT Gases
- Gas ejectors
RT Air
RT Gaseous wastes
RT Pumps
RT Steam
- Gas fields
Use Natural gas fields
- Gas heating
BT1 Heating
- 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
- 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
- See Geography
- 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

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 engineering

Use **Engineering geology**

Geologic environment

Use **Depositional environment**

Geologic faults

Use **Faults**

Geologic fissures

Use **Fissures**

Geologic models

RT **Geologic structures**

Geologic processes

- NT1 Diastrophism
- NT1 Metamorphism
- NT1 Sedimentation
- NT1 Volcanism

Geologic provinces

- NT1 Anadarko Basin
- NT1 Delaware Basin
- NT1 Uinta Basin

Geologic strata

Use Strata

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 thermometers

Use **Geothermometers**

Geologic times

- NT1 Cenozoic Era
- NT1 Mesozoic Era
- NT1 Paleozoic Era
- NT1 Precambrian Eras

RT **Geochronology**

Geologic traps

Use **Traps**

Geological

- See **Engineering geology**
- See **Field studies**
- See **Geologic deposits**
- See **Geologic structures**
- See **Geological surveys**
- See **Hydrology**
- See **Minerals**
- See **Rocks**

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

Geopressure power plants

RT Geothermal power plants

Geopressure resources

BT1 Geothermal resources
BT2 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

See Well drilling

Geothermal areas

Geopressured Geothermal Bibliography

Use Geothermal fields

Geothermal brines

BT1 Brines

BT2 Solutions

RT Geothermal fluids

RT Injectability

RT Injectivity

RT Thermal effluents

RT Thermal waters

Geothermal drilling

BT1 Well drilling

BT2 Drilling

Geothermal energy

BT1 Energy

RT Geothermal industry

RT KGRAs

Geothermal energy conversion

BT1 Energy conversion

BT2 Conversion

RT Binary fluid systems

RT Flashed steam systems

RT Geothermal power plants

RT Power generation

RT Total flow systems

Geothermal exploration

BT1 Exploration

BT1 Geophysical exploration

RT Electrical surveys

RT Electromagnetic surveys

RT Geochemical surveys

RT Geological surveys

RT Geophysical surveys

RT Geothermal gradient surveys

RT Geothermal surveys

RT Gravity surveys

RT Infrared surveys

RT Magnetic surveys

RT Seismic surveys

RT Telluric surveys

RT Well logging equipment

Geothermal fields

NT1 Cerro Prieto Geothermal Field

NT1 Chocolate Bayou Geothermal Field

NT1 Geysers Geothermal Field

NT1 Heber Geothermal Field

NT1 Larderello Geothermal Field

NT1 McAllen Ranch Geothermal Field

NT1 Tigre Lagoon Geothermal Field

NT1 Valles Caldera Geothermal Field

NT1 Wairakei Geothermal Field

RT Coso Hot Springs KGRA

RT East Mesa KGRA

RT Geothermal systems

RT Imperial Valley

RT Jemez Mountains

RT Klamath Falls KGRA

RT KGRAs

RT Marysville KGRA

RT Mono-long Valley KGRA

RT Raft River KGRA

RT Well spacing

Geothermal fluids

BT1 Fluids

NT1 Natural steam

RT Brines

RT Crevice corrosion

RT Fluid withdrawal

RT Geothermal brines

RT Hydrothermal systems

RT Thermal effluents

RT Thermal waters

Geothermal flux

Use Heat flow

Geothermal gradients

BT1 Temperature gradients

RT Heat flow

Geothermal heat flow

Use Heat flow

Geothermal heating

BT1 Heating

NT1 Geothermal space heating

- 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

Geopressured 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	
Global aspects	
Gold BT1 Transition elements BT2 Metals	Granite BT1 Intrusive rocks BT2 Igneous rocks
Government See Government policies See Local government See National government See Regulations See State government	Granites Use Granite
Government See Regulations	Granodiorite BT1 Intrusive rocks BT2 Igneous rocks
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	Graphic See Graphic methods
Grabens BT1 Geologic structures RT Faults RT Rift valleys	Graphic methods
Gradient See Ffg See Geothermal exploration See Geothermal gradient	Graphics See Graphic methods
	Graphs BT1 Information NT1 Production decline curve RT Data RT Experimental results RT Tables
	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

Gravitation fields

RT Gravitation

Gravitational

See Free water

Gravitational water

Use Free water

Gravity

See Gravimetry

See Gravitation

See Gravity logging

See Gravity surveys

See Normal faults

Gravity faults

Use Normal faults

Gravity logging

BT1 Well logging

RT Gravity surveys

Gravity surveys

BT1 Geophysical surveys

BT2 Exploration methods

RT Geothermal exploration

RT Gravimetry

RT Gravitation

RT Gravity logging

Great Valley

BT1 California

BT2 USA

BT3 North America

Greene County

BT1 Mississippi

BT2 Gulf Coast

Greenhouses

BT1 Buildings

RT Direct energy utilization

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

Ground disposal

Use Underground disposal

Ground motion

RT Earth movements

RT Seismic events

RT Shock waves

Ground subsidence

BT1 Earth movements

RT Compaction

RT Consolidation

RT Injection wells

RT Rock mechanics

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

Geopressured Geothermal Bibliography

RT Water table

Ground water depletion
Use Overdraft

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

Ground water reservoirs
Use Aquifers

Ground water withdrawal
Use Fluid withdrawal

Growth
See Growth faults

Growth faults
BT1 Faults
BT2 Geologic structures
RT Deposition

Guidelines
Use Recommendations

Guides
See Recommendations
See Regulations

Guinea
See Australia
See New Guinea

Gulf
See Arabian Sea
See Gulf Coast
See Gulf of Mexico

Gulf of Mexico
BT1 Caribbean Sea
BT2 Atlantic Ocean

RT Gulf Coast

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

Gulf Coast Basin
Use Gulf Coast

Gulf Coastal Plain
Use Gulf Coast

Gypsum
BT1 Sulfate minerals
BT2 Minerals
RT Anhydrite
RT Calcium sulfates

Habitats
See Aquatic ecosystems

Halide
See Halide minerals
See Halides

Halide minerals
BT1 Minerals
NT1 Fluorite
NT1 Halite
RT Halides

Halides
NT1 Bromides
NT1 Chlorides
NT1 Fluorides
NT1 Iodides
RT Halide minerals

Halite
BT1 Halide minerals
BT2 Minerals
RT Salts

- 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

Heat

BT1 Energy
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

RT Energy balance

Heat budget

RT Lakes
RT Limnology
RT Specific heat

Heat capacity

Use Specific heat

Heat content

Use Enthalpy

Heat discharge

Use Heat flow
Use Waste heat

Heat effects

Use Temperature effects

Heat exchangers

NT1 Fluidized bed heat exchangers
RT Cooling towers
RT Crevice corrosion
RT Evaporators
RT Heat transfer
RT Steam condensers
RT Steam generators
RT Working fluids

Heat extraction

RT Exploitation
RT Heating

Heat flow

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

Geopressured Geothermal Bibliography

Use Rare gases	RT Information retrieval
Infinite See Infinite dilution See Low concentration See Solutions See Trace amounts	Infrared See Infrared surveys
Infinite dilution RT Dilution RT Low concentration RT Solutions RT Trace amounts	Infrared surveys BT1 Geophysical surveys BT2 Exploration methods RT Geothermal exploration RT Remote sensing
Inflation RT Cost RT Economic impact RT Economics	Inhibitors See Corrosion See Corrosion monitoring See Corrosion protection
Inflow See Water influx	Initial reservoir pressure Use Reservoir pressure
Influx See Water influx	Injectability RT Geothermal brines RT Injection RT Injectivity RT Waste injection
Information NT1 Data NT1 Graphs NT1 Tables NT1 Well data RT Document types Also see Information needs Also see Information systems Also see Monitoring Also see Well information systems	Injection RT Charging RT Injectability RT Injectivity RT Water influx Also see Artificial recharge Also see Geothermal wells Also see Ground subsidence Also see Hot dry rock systems Also see Injection pumps Also see Injection rates Also see Injection wells
Information needs RT Data RT Information retrieval RT Information systems RT Research programs	Injection pressure RT Injection rates RT Injection wells
Information retrieval RT Information needs RT Information systems	Injection pumps BT1 Pumps BT1 Surface equipment BT2 Equipment RT Injection wells RT Waste injection
Information systems NT1 Well information systems RT Documentation RT Information needs	Injection rates BT1 Rates RT Injection pressure

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

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

Methylene

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

RT Chemical effluents
Mineralization
RT Burial
RT Crystallization
Mineralogy
RT Minerals
Also see Clay
Also see Clay mineralogy
Minerals
NT1 Carbonate minerals
NT1 Halide minerals
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
See Miocene Epoch
Miocene Epoch
BT1 Tertiary Period
BT2 Cenozoic Era
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
BT2 Streams
Mississippian Period
BT1 Carboniferous Periods
BT2 Paleozoic Era
Mixtures
RT Solutions
Mobile homes
BT1 Buildings
RT Houses
Models
NT1 Functional models
NT1 Mathematical models
NT1 Structural models
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
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

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 Diaps

Mud weight

- BT1 Fluid properties
- BT2 Physical properties
- RT Density
- RT Drilling fluids

Muds

- Use Drilling fluids

Mudstone

- BT1 Clastic rocks
- BT2 Sedimentary rocks
- RT Sediment deposits
- RT Shale
- RT Siltstone

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 Park

National government

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

National organizations

- NT1 US organizations
- RT National government

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

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

Geopressured Geothermal Bibliography

- RT Noise pollution control
 - Noise pollution control
 - BT1 Pollution control
 - BT2 Control
 - RT Noise pollution
 - RT Noise pollution abatement
 - Nonaqueous
 - See Aqueous solutions
 - 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
- Nuclear power plants
 BT1 Thermal power plants
 BT2 Power plants
 RT Nuclear energy
- Nueces County
 BT1 Texas
 BT2 Gulf Coast
- Numerical
 See Empirical equations
 See Mathematical methods
 See Mathematical models
 See Mathematics
 See Numerical analysis
 See Numerical solution
- Numerical analysis
 BT1 Mathematics
 NT1 Sensitivity analysis
 RT Computer calculations
 RT Mathematical methods
 RT Numerical solution
- Numerical solution
 RT Calculation methods
 RT Computer calculations
 RT Mathematical models
 RT Mathematics
 RT Numerical analysis
- Numerical solutions
 RT Empirical equations
- NMR logging
 Use Nuclear magnetic logging
 Use Rare gases
- Observation wells
 BT1 Wells
 RT Aquifer tests
 RT Injection wells
 RT Well testing
- RT Well interference
- Obsidian
 BT1 Pyroclastic rocks
 BT2 Extrusive rocks
- Occurrence
 Also see Industry
 Also see Natural occurrence
 Use Anthropogenic occurrence
- 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
- Ocean basins
 BT1 Basins
 BT2 Geologic structures
- Ocean floor
 Use Sea bed
- Ocean ridges
 RT Rift valleys
- Ocean thermal energy conversion
 BT1 Solar energy conversion
 BT2 Energy conversion
 RT Ocean thermal power plants
- Ocean thermal power plants
 BT1 Thermal power plants
 BT2 Power plants
 RT Ocean thermal energy conversion
- Ocean trenches
 Use Submarine trenches
- Ocean water
 Use Sea water

Geopressured Geothermal Bibliography

Use Seas	Use Marine surveys
Oceanic crust	
BT1 Earth crust	See Fossil fuels
BT2 Earth planetary structure	See Gas saturation
RT Continental crust	See Oil drilling
RT Continental slopes	See Oil fields
RT Sea floor spreading	See Oil production
Oceanography	See Oil saturation
RT Earth planet	See Oil shale
RT Geography	See Oil wells
RT Limnology	See Petroleum
RT Marine geology	See Reservoir rocks
RT Seas	See Well completion
RT Surface waters	
Oceans	
Use Seas	
Odor	
RT Air pollution	Oil drilling
RT Gaseous wastes	BT1 Well drilling
RT Water analysis	BT2 Drilling
Office buildings	
BT1 Commercial buildings	Oil fields
BT2 Buildings	BT1 Petroleum deposits
RT Federal buildings	BT2 Reserves
Offshore	BT2 Geologic deposits
See Coastal waters	RT Oil wells
See Marine surveys	RT Petroleum
See Offshore sites	RT Reservoir fluids
See Seas	RT Reservoir rocks
See Shores	RT Well spacing
See Site selection	
Offshore sites	
RT Coastal waters	Oil production
RT Estuaries	BT1 Production
RT Seas	RT Oil wells
RT Shores	RT Water production
RT Site selection	RT Well testing
Offshore surveys	
	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

Geopressured Geothermal Bibliography

- 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
- Overturnd folds**
BT1 Folds
BT2 Geologic structures
- Ownership**
NT1 Mineral rights
RT Industry
RT Investment
RT Land leasing
RT Land use
RT Legal aspects
RT Management
RT Mineral resources
- Oxidation**
BT1 Redox reactions
BT2 Chemical reactions
RT Redox potential
Also see Redox potential
- Oxidation-reduction potential**
Use Redox potential
- Oxide**
- See Oxide minerals
- Oxide minerals**
BT1 Minerals
NT1 Gibbsite
NT1 Hematite
RT Oxides
- Oxides**
BT1 Oxygen inorganic compounds
NT1 Iron oxides
RT Oxide minerals
Also see Iron oxides
- Oxygen**
BT1 Nonmetals
BT2 Elements
RT Dissolved gases
Also see Oxygen inorganic compounds
- Oxygen inorganic compounds**
NT1 Carbon dioxide
NT1 Carbonates
NT1 Oxides
NT1 Sulfates
- P waves**
Use Seismic p waves
- Pacific Ocean**
BT1 Seas
BT2 Surface waters
NT1 South China Sea
- Packing**
See Gravel packing
See Slurry packing
- Pakistan**
BT1 Asia
BT2 Continents
- Paleocene**
See Paleocene Epoch
- Paleocene Epoch**
BT1 Tertiary Period
BT2 Cenozoic Era
- Paleoecology**
RT Biostratigraphy
RT Depositional environment
RT Ecology
RT Environment

- RT Paleontology**
- Paleomagnetism**
- RT Geophysics**
- Paleontology**
- RT Biostratigraphy
- RT Foraminifera
- RT Geochronology
- RT Geology
- RT Paleoecology
- RT Protozoa
- RT Sedimentology
- RT Stratigraphy
- Paleopressure**
- RT Geopressure
- Paleozoic**
- See Paleozoic Era
- 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

Geopressured Geothermal Bibliography

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
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
 - RT Well logging
- Petroleum industry**
- BT1 Industry
 - RT Exploitation
 - RT Petroleum geology
 - RT Petroleum
 - RT Petroleum deposits
 - RT Petroleum exploration
- Petrology**
- BT1 Geology
 - NT1 Sedimentary petrology
 - RT Igneous rocks
 - RT Lithology
 - RT Metamorphic rocks
 - RT Petroleum geology
- Ph**
- See Aqueous solutions
 - See Chemical reactions
 - See Ph adjustment
- See Ph value**
- Ph adjustment**
- RT Acidization
 - RT Brine treatment
 - RT Ph dependence
 - RT Ph value
- Ph dependence**
- RT Chemical reactions
 - RT Ph adjustment
 - RT Ph value
- Ph value**
- BT1 Chemical properties
 - RT Aqueous solutions
 - RT Chemical composition
 - RT Ph adjustment
 - RT Ph dependence
- Phanerite**
- Use Phaneritic rocks
- Phaneritic**
- See Phaneritic rocks
- Phaneritic rocks**
- BT1 Igneous rocks
 - BT2 Rocks
- Phase**
- See Flashing
 - See Liquid flow
 - See Phase transformations
 - See Two phase flow
- Phase transformations**
- NT1 Boiling
 - NT1 Evaporation
 - NT1 Melting
- Philippines**
- BT1 Asia
- Phosphorus**
- BT1 Nonmetals
 - BT2 Elements
- Photographs**
- RT Diagrams
- Photometry**
- See Emission spectroscopy
- Phreatic**
- See Ground water
- Phreatic water**

Geopressured Geothermal Bibliography

- Use Ground water
- Physical**
See Physical properties
See Surface properties
- Physical properties**
NT1 Density
NT1 Electrical properties
NT1 Fluid properties
NT1 Freezing potential
NT1 Hydraulic conductivity
NT1 Mud weight
NT1 Optical properties
NT1 Permeability
NT1 Porosity
NT1 Rock properties
NT1 Rock drillability
NT1 Thermodynamic properties
NT1 Volume
RT Chemical properties
RT Hydrologic properties
RT Pressure measurement
RT Surface properties
RT Temperature measurement
- Physiography**
Use Geomorphology
- Piestic water**
Use Artesian water
- Piezometers**
BT1 Measuring instruments
RT Compressibility
RT Piezometry
- Piezometry**
BT1 Measuring methods
RT Piezometers
RT Pressure measurement
- Pilot plants**
BT1 Functional models
BT2 Models
RT Demonstration plants
RT Industrial plants
- Pipe**
See Nozzles
See Pipes
- Pipe fittings**
RT Nozzles
RT Pipes
- RT Seals**
- Pipelines**
RT Archaeological sites
RT Pipes
- Pipes**
NT1 Drill pipes
NT1 Transfer pipes
RT Pipe fittings
RT Pipelines
RT Well casings
Also see Drill pipes
Also see Drills
Also see Transfer pipes
- Pitting**
See Pitting corrosion
- Pitting corrosion**
BT1 Corrosion
BT2 Chemical reactions
RT Cavitation
RT Corrosion resistant alloys
- Plagioclases**
BT1 Feldspars
BT2 Silicate minerals
NT1 Albite
NT1 Andesine
- Plain**
See Gulf Coast
See Nagaoka Plain
- Planet**
See Continental crust
See Earth atmosphere
See Earth core
See Earth crust
See Earth mantle
See Earth movements
See Earth planet
See Earth planetary structure
See Geography
See Geophysics
See Oceanography
See Topography
- Planetary**
See Earth planetary

- structure
- Plankton
- BT1 Aquatic organisms
 - BT2 Animals
 - BT2 Plants
 - RT Bacteria
 - RT Surface waters
- Planning
- RT Allocations
 - RT Construction
 - RT Demonstration programs
 - RT Design
 - RT Feasibility studies
 - RT Optimization
 - RT Production
 - RT Research programs
 - RT Site selection
 - 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

Geopressured Geothermal Bibliography

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
RT Intrusive rocks

Plutonic water

Use Juvenile water

Plutonium

BT1 Actinides
BT2 Metals

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

Use Economic policy

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

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

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

RT Kinetic energy

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 ($< 1.0 \text{ E}05 \text{ newton/sq m}$)
Use Standard pressure
- Pressure ($< 1.02 \text{ kg/sq m}$)
Use Low pressure
- Pressure ($< 1.45 \text{ E}01 \text{ psi}$)
- Use Low pressure
- Pressure ($> 5.0 \text{ E}07 \text{ newton/sq m}$)
Use High pressure
- Pressure ($> 5.1 \text{ E}02 \text{ kg/sq m}$)
Use High pressure
- Pressure ($> 7.25 \text{ E}04 \text{ psi}$)
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
- Process
 - See Burial
 - See Direct energy utilization
 - See Frasch sulfur process
 - See Industrial heating
 - See Process heat
- Process heat
 - BT1 Heat
 - BT2 Energy
 - RT Direct energy utilization
 - RT Industrial heating
- Processes
 - See Geologic processes
 - See Recovery processes
 - See Refining
 - See Separation processes
- Processing
 - NT1 Data processing
 - NT1 Refining
 - NT1 Waste processing
 - Also see Computers
 - Also see Data
 - Also see Data analysis
 - Also see Liquid wastes
 - Also see Radioactive wastes
 - Also see Recovery processes
 - Also see Scrubbers
 - Also see Waste processing
- Producing
 - See Producing wells
- Producing wells
 - BT1 Wells
- Production
 - NT1 Gas production
 - NT1 Mineral production
 - NT1 Oil production
 - NT1 Sand production
 - NT1 Water production
 - RT Operation
 - RT Planning
 - RT Production rate
 - RT Productivity
 - Also see Power generation
 - Also see Production logging
- Production decline curve
 - BT1 Graphs
 - RT Well data
 - See Decline curve analysis
- See Production decline rate
- Production logging
 - BT1 Well logging
- Production rate
 - BT1 Rates
 - RT Permeability
 - RT Production
 - RT Productivity
 - RT Production testing
 - RT Reservoir pressure
 - RT Well testing
- Production testing
 - BT1 Well testing
 - BT2 Testing
 - RT Gas production
 - RT Performance testing
 - RT Productivity
 - RT Production rate
 - RT Water production
- Productivity
 - RT Efficiency
 - RT Energy yield
 - RT Feasibility studies
 - RT Net energy
 - RT Performance testing
 - RT Production rater
 - RT Production testing
 - RT Production
- Products
 - See Anthropogenic occurrence
 - See Corrosion
 - See Corrosion monitoring
 - See Desalination
 - See Economics
 - See Industry
 - See Recovery processes
- Profitability
 - RT Evaluation
 - RT Financial incentives
 - RT Income
 - RT Investment
 - RT Optimization
 - See Rate of Return
- Profits
 - RT Charges
 - RT Economics
 - RT Income
- Programming
 - RT Computer codes

RT Computers

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

See US EPA

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**
- Public utilities**
 - RT Electric power
 - RT Natural gas
 - RT Power generation
 - Pumice**
 - BT1 Pyroclastic rocks
 - BT2 Extrusive rocks
 - Pump tests**
 - Use Aquifer tests
 - Pumping**
 - RT Dewatering
 - RT Wells
 - Pumps**
 - NT1 Downhole pumps
 - NT1 Injection pumps
 - RT Compressors
 - RT Gas ejectors
 - Also see Injection pumps
 - Also see Well design
 - Purification**
 - See Water treatment
 - Pyrite**
 - BT1 Sulfide minerals
 - BT2 Minerals
 - Pyrites**
 - Also see Chalcopyrite
 - Also see Pyrite
 - Use Sulfide minerals
 - Pyroclastic**
 - See Pyroclastic rocks
 - See Volcanism
 - Pyroclastic rocks**
 - BT1 Extrusive rocks
 - BT2 Igneous rocks
 - NT1 Obsidian
 - NT1 Pumice
 - NT1 Tuff
 - RT Volcanism
 - Pyrophyllite**
 - BT1 Silicate minerals
 - BT2 Minerals
 - Pyroxenes**
 - BT1 Silicate minerals

BT2 Minerals

Qualitative
 - See Chemical analysis methods
 - See Chemical composition
 - See Chemistry
 - See Gas analysis
 - See Measuring methods
 - See Qualitative chemical analysis

Qualitative chemical analysis
 - BT1 Chemical analysis
 - BT2 Analysis
 - RT Chemical analysis methods
 - RT Chemical composition
 - RT Chemistry
 - RT Gas analysis
 - RT Measuring methods

Quality
 - See Air
 - See Air pollution
 - See Drinking water
 - See Water
 - See Water pollution
 - See Water quality
 - See Water treatment

Quantitative
 - See Chemical analysis methods
 - See Chemical composition
 - See Chemistry
 - See Gas analysis
 - See Gas chromatography
 - See Measuring methods
 - See Quantitative chemical analysis

Quantitative chemical analysis
 - BT1 Chemical analysis
 - BT2 Analysis
 - RT Chemical analysis methods
 - 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

- generation
- Rankine cycle power systems
RT Power generation
RT Rankine cycle
- Rare
See Rare earths
See Rare gases
- Rare earths
BT1 Metals
BT2 Elements
NT1 Europium
NT1 Samarium
- Rare gases
BT1 Nonmetals
BT2 Elements
NT1 Argon
NT1 Helium
NT1 Krypton
NT1 Neon
NT1 Radon
NT1 Xenon
- Rate
See Accumulation rate
See Circulating rate
See Drilling rate
See Flow rate
See Injection rates
See Strain rate
See Strains
See Tensile properties
- Rates
NT1 Accumulation rate
NT1 Drilling rate
NT1 Flow rate
NT1 Injection rates
NT1 Production rate
NT1 Strain rate
RT Velocity
Also see Energy consumption
Also see Injection wells
- Ratio
See Facies maps
- Ray
See Gamma ray logging
See Gamma ray surveys
- See Gamma spectroscopy
- Rayleigh waves
BT1 Seismic waves
- Reaction
See Reaction heat
- Reaction heat
BT1 Enthalpy
BT2 Thermodynamic properties
NT1 Formation heat
- Reactions
See Chemical equilibrium
See Chemical properties
See Chemical reactions
See Redox reactions
- Reactions (chemical)
Use Chemical reactions
- Reaming
RT Plugging
RT Well drilling
- Recent Epoch
BT1 Quaternary Period
BT2 Cenozoic Era
- Recharge
Also see Hydrology
Also see Injection wells
Also see Overdraft
Use Artificial recharge
Use Ground water recharge
Use Natural recharge
- Recharge wells
Use Injection wells
- Reclamation
See Land pollution abatement
See Land pollution control
See Land reclamation
See US Bureau of
Reclamation
- Reclamation (land)
Use Land reclamation
- Recluse Field
BT1 Wyoming

- BT2 Gulf Coast**
- Recommendations**
- RT Agreements
 - RT Compliance
 - RT Legal aspects
 - RT Licensing
 - RT Manuals
 - RT Regulatory guides
- Recording**
- See Data acquisition systems
 - See Measuring instruments
 - See Well logging
- Recording systems**
- RT Data acquisition systems
 - RT Measuring instruments
 - RT Well logging
- Recovery**
- See Materials recovery
 - See Minerals
 - See Recovery processes
 - See Water production
- Recovery processes**
- NT1 Frasch sulfur process
 - RT By-products
 - RT Desulfurization
 - RT Mineral recovery
 - RT Waste management
 - RT Waste processing
 - RT Wastes
- Recreational facilities**
- RT Public lands
- Redox**
- See Oxidation
 - See Redox potential
 - See Redox reactions
 - See Reduction
- Redox potential**
- RT Oxidation
 - RT Redox reactions
 - RT Reduction
- Redox reactions**
- BT1 Chemical reactions
 - NT1 Oxidation
 - NT1 Reduction
- RT Redox potential**
- Reduction**
- BT1 Redox reactions
 - BT2 Chemical reactions
 - RT Redox potential
 - Also see Redox potential
- Reentry**
- RT Oil wells
- Refining**
- BT1 Processing
 - RT Separation processes
- Reflectance**
- Reflection**
- See Seismic reflection surveys
- Refraction**
- See Seismic reflection surveys
 - See Seismic refraction surveys
- Refrigeration**
- See Direct energy utilization
 - See Geothermal space heating
- Regional**
- See Ecology
 - See Economics
 - See Environment
 - See Human populations
 - See Sociology
- Regional analysis**
- RT Ecology
 - RT Economic analysis
 - RT Economics
 - RT Environment
 - RT Human populations
 - RT Sociology
- Regions**
- See Arctic regions
 - See Climates
 - See Coastal waters
 - See Geopressured zones
 - See Geothermal fields
 - See Polar regions
 - See Shores
 - See Volcanism
 - See Volcanoes
- Regolith**

Geopressured Geothermal Bibliography

Use Overburden	See Pressure release
Regulations	Reliability
NT1 Pollution regulations	RT Failures
NT1 Zoning	RT Hazards
RT Agreements	RT Performance
RT Compliance	RT Performance testing
RT Deregulation	RT Specifications
RT Enforcement	RT Systems analysis
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	
Regulatory	
See Recommendations	
See Regulations	
Regulatory guides	
RT Recommendations	
RT Regulations	
Rehabilitation	
See Aquifers	
Reinjection	
Also see Injection wells	
Use Artificial recharge	
Reinjection wells	
Use Injection wells	
Relations	
See Management	
See Public opinion	
See Sociology	
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**
- Resources**
- NT1 Geothermal resources
 - NT1 Mineral resources
 - NT1 Water resources
 - RT Energy supplies
 - RT Natural gas deposits
 - RT Petroleum deposits
 - RT Reserves
 - RT Resource development
 - RT Resource potential
 - RT Resource conservation
 - Also see Availability
 - Also see Energy resources
 - Also see Engineering geology
 - Also see Geologic deposits
 - Also see Geopressure resources
 - Also see Ground water
 - Also see KGRAs
 - Also see Mineral rights
 - Also see Ownership
 - Also see Rain water
 - Also see Rock mechanics
 - Also see Subsurface waters
 - Also see Surface waters
 - Also see Water
 - Also see Water management
 - Also see Water reservoirs
- Restoration**
- See Acidization
 - See Aquifers
 - See Plugging
 - See Well stimulation
- Results**
- See Data
 - See Document types
 - See Experimental results
 - See Field studies
 - See Graphs
 - See Tables
 - See Theoretical treatments
- Resurgent water**
- Use Juvenile water
- Retrieval**
- See Information needs
 - See Information systems
- Retrofitting**
- BT1 Construction
 - RT Buildings
- Return**
- See Profits**
- Return on investment**
- Use Profits
- Revenue**
- Use Income
- Reverse faults**
- Use Thrust faults
- Reversed folds**
- Use Overturned folds
- Reviews**
- BT1 Document types
 - RT Research programs
- Rheology**
- RT Creep
 - RT Deformation
 - RT Fluid flow
 - RT Mechanical properties
 - RT Viscosity
- Rhyolite**
- BT1 Extrusive rocks
 - BT2 Igneous rocks
- Ridges**
- See Rift valleys
- Rift**
- See Colorado
 - See Fault systems
 - See Faults
 - See New Mexico
 - See Rift valleys
 - See Rio Grande Rift
 - See Tectonics
- Rift valleys**
- BT1 Geologic structures
 - RT Continental drift
 - RT Fault systems
 - RT Fault zones
 - RT Faults
 - RT Grabens
 - RT Imperial Valley
 - RT Ocean ridges
 - 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**
- Rock drilling**
- BT1 Drilling
 - RT Boreholes
 - RT Drills
 - RT Rock drillability
 - RT Subterrene penetrators
 - RT Well drilling
- Rock failures**
- BT1 Failures
 - RT Faults
 - RT Rock drillability
 - RT Rock mechanics
 - RT Rock shear
 - RT Rock stress
- Rock fluid interactions**
- RT Chemical reactions
 - RT Hydrothermal alteration
 - RT Hydrothermal systems
 - RT Rocks
- Rock matrix**
- Rock mechanics**
- RT Field studies
 - RT Geothermal resources
 - RT Ground subsidence
 - RT Overburden
 - RT Rock drillability
 - RT Rock shear
 - RT Rock stresses
 - RT Rock failures
 - RT Rock properties
 - RT Rocks
 - RT Soil mechanics
- Rock properties**
- BT1 Physical properties
 - NT1 Rock drillability
 - RT Chemical composition
 - RT Fracture properties
 - RT Hydrologic properties
 - RT Mechanical properties
 - RT Permeability
 - RT Porosity
 - RT Rock deformation
 - RT Rock stresses
 - RT Rock mechanics
 - RT Rocks
 - RT Sand shale ratio
- Rock salt**
- Use Halite**
- Rock shear**
- BT1 Shear
 - RT Rock deformation
 - RT Rock drillability
 - RT Rock mechanics
 - RT Rock stress
 - RT Rock failures
- Rock stresses**
- BT1 Stresses
 - RT Rock deformation
 - RT Rock drillability
 - RT Rock mechanics
 - RT Rock properties
 - RT Rock shear
 - RT Rock failures
 - See Formation stress
 - See Rock pressure
 - See Well bore stress
- Rocks**
- NT1 Igneous rocks
 - NT1 Metamorphic rocks
 - NT1 Plutonic rocks
 - NT1 Reservoir rocks
 - NT1 Sedimentary rocks
 - RT Cap rock
 - RT Geological setting
 - RT Lithification
 - RT Rock fluid interactions
 - RT Rock mechanics
 - RT Rock properties
 - RT Traps
 - Also see Aphanitic rocks
 - Also see Carbonate minerals
 - Also see Carbonate rocks
 - Also see Clastic rocks
 - Also see Dolomite
 - Also see Dolomite rocks
 - Also see Evaporites
 - Also see Extrusive rocks
 - Also see Gas saturation
 - Also see Hot dry rock systems
 - Also see Intrusive rocks
 - Also see Nonclastic rocks
 - Also see Petrology
 - Also see Phaneritic rocks
 - Also see Plugging
 - Also see Porphyritic rocks
 - Also see Pyroclastic rocks
 - Also see Sedimentary petrology
 - Also see Texas

Geopressured Geothermal Bibliography

- Also see Volcanism**
- Rotary**
 - See **Rotary drilling**
- Rotary drilling**
 - BT1 Well drilling**
 - BT2 Drilling**
- Royalties**
 - RT Cost**
 - RT Income**
 - RT Investment**
 - RT Licensing**
 - RT Patents**
- Rubidium**
 - BT1 Alkali metals**
 - BT2 Metals**
- Rural**
 - See **Rural populations**
- Rural areas**
 - RT **Rural populations**
- Rural populations**
 - BT1 Human populations**
 - BT2 Populations**
 - RT **Rural areas**
- S waves**
 - Use **Seismic s waves**
- 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**
- RT Safety**
- Safety standards**
 - BT1 Standards**
 - RT Legal aspects**
 - RT Licensing**
 - RT Recommendations**
 - RT Regulations**
 - RT Safety**
- Saint Mary Parish**
 - Use **St Mary Parish**
- Sales**
 - Use **Trade**
- Saline**
 - See **Brines**
 - See **Saline aquifers**
 - See **Salt water**
 - See **Waste disposal**
- Saline aquifers**
 - BT1 Aquifers**
 - BT2 Subsurface reservoirs**
 - RT **Aquiclude**
 - RT **Brines**
 - RT **Salts**
 - RT **Waste disposal**
- Saline water**
 - Use **Salt water**
- 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**
- Salt**
 - See **Anticlines**
 - See **Halite**
 - See **Radioactive wastes**
 - See **Salinity**
 - See **Salt deposits**
 - See **Salt domes**
 - See **Salt tectonics**
 - See **Salt water**

- 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	RT Sedimentology
Sediment deposits	Sedimentary structures
BT1 Sediments	RT Geologic structures
NT1 Alluvial deposits	RT Sedimentary petrology
RT Alluvium	RT Sedimentation
RT Deltas	RT Sedimentology
RT Geologic deposits	RT Sediments
RT Mudstone	RT Stratigraphy
RT Sand	
RT Sandstone	
RT Sedimentation	
RT Sedimentology	
RT Siltstone	
Sedimentary	Sedimentation
See Geologic structures	BT1 Geologic processes
See Sedimentary basins	RT Accumulation rate
See Sedimentary petrology	RT Burial
See Sedimentary rocks	RT Deltas
See Sedimentation	RT Deposition
See Sedimentology	RT Depositional environment
See Sediments	RT Particles
See Stratigraphy	RT Sediment deposits
	RT Sedimentary petrology
	RT Sedimentary structures
	RT Sediments
Sedimentary basins	Sedimentation rate
BT1 Basins	Use Accumulation rate
BT2 Geologic structures	
RT Sediments	
RT Stratigraphy	
Sedimentary petrology	Sedimentology
BT1 Petrology	BT1 Geology
BT2 Geology	RT Lithification
RT Deposition	RT Paleontology
RT Sedimentary rocks	RT Sediment deposits
RT Sedimentary structures	RT Sedimentary petrology
RT Sedimentation	RT Sedimentary rocks
RT Sedimentology	RT Sedimentary structures
RT Stratigraphy	RT Sediments
Sedimentary rocks	Sediments
BT1 Rocks	NT1 Sediment deposits
NT1 Clastic rocks	RT Alluvium
NT1 Limestone	RT Argillaceous rocks
NT1 Nonclastic rocks	RT Catagenesis
RT Argillaceous rocks	RT Deltas
RT Carbonate rocks	RT Depositional environment
RT Lithification	RT Geologic deposits
RT Lithology	RT Lithification
RT Sedimentary petrology	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

Serpentines

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

Geopressured Geothermal Bibliography

- 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
 - RT Shale
- 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**
 - See Lateral faults
- 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**

Geopressured Geothermal Bibliography

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
Also see Water analysis

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

Solution

See Dissolved gases
See Mathematical models
See Mathematics
See Numerical analysis
See Numerical solution

Solution gases

Use Dissolved gases

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

Solvents

RT Solubility
RT Solutions

Sonic

See Acoustic monitoring
See Cement bond logging
See Seismic detection
See Sonic logging
See Sound velocity
See Sound waves

Sonic logging

BT1 Well logging
RT Acoustic monitoring
RT Cement bond logging
RT Seismic detection
RT Sound velocity
RT Sound waves

Sonic velocity

Use Sound velocity

Sound

Also see Sound velocity
Use Sound waves

Sound velocity

BT1 Velocity
RT Sonic logging

- RT Sound waves
- Sound waves
 - RT Noise
 - RT Sonic logging
 - RT 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

Geopressured Geothermal Bibliography

- 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
 - 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

Geopressured Geothermal Bibliography

- 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
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
- Stresses**
NT1 Shear
NT1 Shear stress
RT Materials testing
RT Mechanical properties
RT Strains
RT Tensile properties
RT Thermoelasticity
- Strike slip faults**
Use Lateral faults
- Strontium**
BT1 Alkaline earth metals
BT2 Metals
Also see Strontium inorganic compounds
- Strontium inorganic compounds**
- Structural**
See Geanticlines
See Geologic control
See Geologic structures
See Mathematical models
See Stratigraphic traps
See Structural models
See Structural traps
- Structural control**
- Use Geologic control
- Structural features**
Use Geologic structures
- Structural geology**
RT Geanticlines
RT Rock deformation
RT Salt tectonics
RT Sedimentary structures
RT Structural traps
RT Uplifts
- Structural models**
BT1 Models
RT Mathematical models
- Structural traps**
BT1 Traps
BT2 Geologic structures
RT Natural gas deposits
RT Petroleum deposits
RT Stratigraphic traps
RT Structural geology
- Structure**
See Earth planetary structure
- 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
- Structures (geologic)**
Use Geologic structures
- 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
- Submarine**
See Marine geology

Geopressured Geothermal Bibliography

- See Submarine trenches
- Submarine geology**
Use Marine geology
- Submarine trenches**
RT Benioff zones
- Subnormal formation pressure**
- Subnormal pressure**
Use Subnormal formation pressure
- Subpressure**
Use Subnormal formation pressure
- Subsidence**
Also see Compaction
Also see Consolidation
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

Geopressured Geothermal Bibliography

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

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
 - 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 Geopressedure systems
 - See Geopressedure 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

Geopressured Geothermal Bibliography

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

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

Geopressured Geothermal Bibliography

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

See Observation wells

Texas

BT1 Gulf Coast
BT2 North America
NT1 Brazoria County
NT1 Brewster County
NT1 Brooks County
NT1 Cameron County
NT1 Corpus Christi Fairway
NT1 Culberson County
NT1 El Paso County
NT1 G.M. Koelemay Well No. 1

NT1 Galveston County
NT1 Harris County
NT1 Hidalgo County
NT1 Hudspeth County
NT1 Jeff Davis County
NT1 Jefferson County
NT1 Kenedy County
NT1 Kleberg County
NT1 Live Oak County
NT1 Matagorda Fairway
NT1 Matagorda County
NT1 Montgomery Fairway
NT1 Nueces County
NT1 Pleasant Bayou No. 1 Well
NT1 Pleasant Bayou No. 2 Well
NT1 Presidio County
NT1 Rio Grande Embayment
NT1 Saldana Well No. 2
NT1 Starr County
NT1 Willacy County
NT1 Zapata County
RT Anadarko Basin
RT Delaware Basin
RT Frio Formation
RT Gulf Coast
RT Norphlet Formation
RT Queen City Formation
RT Rio Grande Rift
RT Smackover Formation
RT Trans-pecos hot rocks
RT Vicksburg Formation
RT Wilcox Formation

Texas Railroad Commission

Texas Water Quality Board

Textbooks

BT1 Document types

Thallium

BT1 Metals

BT2 Elements

Theoretical

See Theoretical treatments

Theoretical treatments

BT1 Document types

RT Experimental results

Thermal

See Elongation

See Flashing

See Geothermal fluids

See Heat flow

See Heat transfer

See Hydrothermal systems

See Ocean thermal power plants

See Ocean thermal energy conversion

See Specific heat

See Temperature effects

See Temperature gradients

See Temperature logging

See Thermal conduction

See Thermal conductivity

See Thermal diffusivity

See Thermal efficiency

See Thermal effluents

See Thermal equilibrium

See Thermal expansion

See Thermal expansivity

See Thermal exploration methods

See Thermal insulation

See Thermal pollution

See Thermal power plants

See Thermal springs

See Thermal waters

See Thermodynamic cycles

See Thermodynamic properties

See Waste heat

Thermal capacity

Use Specific heat

Thermal conduction

BT1 Heat transfer

BT2 Energy transfer

RT Heat flow

RT Thermal conductivity

RT Thermal insulation

Thermal conductivity

BT1 Thermodynamic properties

BT2 Physical properties

RT Heat flow

RT Heat transfer

RT Thermal conduction

RT Thermal insulation

Thermal diffusion

RT Heat transfer

RT Thermal diffusivity

Thermal diffusivity

BT1 Thermodynamic properties

BT2 Physical properties

RT Thermal diffusion

RT Thermal insulation

Thermal effects

Use Temperature effects

Thermal efficiency

BT1 Efficiency

RT Thermodynamic cycles

Thermal effluents

RT Geothermal brines

RT Geothermal fluids

RT Temperature effects

RT Thermal pollution

RT Thermal waters

RT Waste heat

Thermal equilibrium

BT1 Equilibrium

RT Heat transfer

Thermal expansion

BT1 Expansion

RT Elongation

RT Thermoelasticity

RT Thermal expansivity

Thermal expansivity

BT1 Thermodynamic properties

BT2 Physical properties

Geopressured Geothermal Bibliography

- RT Thermal expansion
- Thermal exploration methods
 - BT1 Geophysical surveys
 - BT2 Exploration methods
 - NT1 Geothermal gradient surveys
 - NT1 Heat flow surveys
 - NT1 Temperature surveys
- Thermal gradients
 - Use Temperature gradients
- Thermal insulation
 - RT Air conditioning
 - RT Heat transfer
 - RT Temperature control
 - RT Thermal conduction
 - RT Thermal conductivity
 - RT Thermal diffusivity
- Thermal logging
 - Use Temperature logging
- Thermal pollution
 - BT1 Pollution
 - RT Environmental effects
 - RT Temperature effects
 - RT Thermal effluents
 - RT Waste heat
- Thermal power plants
 - BT1 Power plants
 - NT1 Combined cycle power plants
 - NT1 Fossil fuel power plants
 - NT1 Gas turbine power plants
 - NT1 Geothermal power plants
 - NT1 Nuclear power plants
 - NT1 Ocean thermal power plants
 - NT1 Steam power plants
 - RT Boilers
- Thermal properties
 - Use Thermodynamic properties
- Thermal springs
 - BT1 Water springs
 - NT1 Hot springs
 - NT1 Warm springs
 - RT Hydrothermal systems
 - 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
 - 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
- Titles**
See Ownership
- Topographic**
See Geologic structures
See Mountains
See Submarine trenches
- Topographic features**
Use Geologic structures
Use Mountains
Use Submarine trenches
- Topography**
RT Earth planet
RT Geography
RT Maps
RT Topological mapping
- Topological**
See Maps
See Topography
- Topological mapping**
RT Maps
RT Topography
- Total dissolved solids**
Use Dissolved solids
- Total flow systems**
RT Geothermal energy conversion

Geopressured Geothermal Bibliography

- RT Thermodynamic cycles
- Towers
See Cooling
See Cooling systems
See Heat exchangers
See Power plants
See Vapor condensers
- Toxicity
RT Biological effects
- Trace
See Elements
See Trace amounts
- Trace amounts
RT Infinite dilution
RT Low concentration
- Trace elements
Use Elements
Use Trace amounts
- Trade
RT Economics
RT Market
RT Taxes
- Trans-pecos
See Texas
- Trans-Pecos Hot Rocks
RT Texas
- 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
- Transfer (energy)
Use Energy transfer
- Transfer (heat)
- Use Heat transfer
- Transfer (mass)
Use Mass transfer
- Transfer pipes
BT1 Pipes
BT1 Surface equipment
BT2 Equipment
- Transformations
See Phase transformations
- Transition
See Transition elements
See Transition temperature
- 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
- Transition temperature
BT1 Thermodynamic properties
BT2 Physical properties
NT1 Melting point
- Transmissibility
Use Permeability
- Transmission
See Electric power
See Heat transfer
- Transmissivity
BT1 Hydrogeologic properties
RT Aquifers
- Transportation
See Waste transportation
- Transuranium
See Transuranium elements
- Transuranium elements

- BT1 Elements**
- Traps**
- BT1 Geologic structures
 - NT1 Stratigraphic traps
 - NT1 Structural traps
 - RT Cap rock
 - RT Natural gas deposits
 - RT Petroleum deposits
 - RT Rocks
- Travel time**
- RT Seismic waves
 - See Acoustic travel time
- 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

Geopressured Geothermal Bibliography

- 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
- Uranium compounds**
- Urban**
See Sociology
See Urban areas
See Urban populations
See Zoning
- Urban areas**
RT Urban populations
RT Zoning
- Urban populations**
BT1 Human populations
BT2 Populations
RT Sociology
RT Urban areas
- Uses**
RT Direct energy utilization
RT Exploitation
- Utah**
BT1 USA
BT2 North America
RT Uinta Basin
- Utilities**
Also see Natural gas
Also see Power generation
Use Public utilities
- Utilization**
Also see Commercialization
Also see Direct energy utilization
Also see Feasibility studies
Also see Industry

Use	Uses	RT	US	ERDA
US				
See US organizations				
See US AEC				
See US Bureau of Reclamation				
See US DOE				
See US EPA				
See US ERDA				
US organizations				
BT1 National organizations				
NT1 LASL				
NT1 US AEC				
NT1 US Bureau of Reclamation				
NT1 US DOE				
NT1 US EPA				
NT1 US ERDA				
US Atomic Energy Commission				
Use US AEC				
US AEC				
BT1 US organizations				
BT2 National organizations				
US Bureau of Reclamation				
BT1 US organizations				
BT2 National organizations				
US DOE				
BT1 US organizations				
BT2 National organizations				
RT US ERDA				
US EPA				
BT1 US organizations				
BT2 National organizations				
US ERDA				
BT1 US organizations				
BT2 National organizations				
RT US DOE				
RT USA				
USA				
BT1 North America				
BT2 Continents				
NT1 Alabama				
NT1 Missouri				
NT1 South Carolina				
RT Gulf Coast				
USSR				
RT Asia				
RT Caspian Basin				
RT Caspian Sea				
RT Europe				
RT Urals				
RT Volga River				
Vadose water				
BT1 Subsurface waters				
RT Free water				
RT Water table				
Valles Caldera				
See Valles Caldera				
Geothermal Field				
See Vapor dominated systems				
Valles Caldera Geothermal Field				
BT1 Geothermal fields				
BT1 New Mexico				
BT2 USA				
BT3 North America				
RT Vapor dominated systems				
Valley				
See Geothermal fields				
See Great Valley				
See Imperial Valley				
See Mono-long Valley KGRA				
See Rift valleys				
See San Joaquin Valley				
Valleys				
See Fault systems				
See Faults				
See Rift valleys				
See Tectonics				
Value				
See Aqueous solutions				
See Ph adjustment				
See Ph value				
Vanadium				
BT1 Transition elements				

Geopressured Geothermal Bibliography

BT2 Metals	
Vapor	
See Liquids	
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)	
Use Saturated vapor	
Vapor condensers	
BT1 Condensers	
NT1 Steam condensers	
RT Cooling towers	
Vapor dominated systems	
BT1 Hydrothermal systems	
BT2 Geothermal systems	
RT Geysers Geothermal Field	
RT Larderello Geothermal Field	
RT Valles Caldera Geothermal Field	
Vapor generators	
NT1 Steam generators	
RT Vapors	
Vapor pressure	
BT1 Thermodynamic properties	
BT2 Physical properties	
RT Volatility	
Vapor separators	
NT1 Steam separators	
RT Vapors	
Vapor solubility	
BT1 Solubility	
BT2 Chemical properties	
Vaporizing	
Use Evaporation	
Vapors	
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	
Vermillion Parish	
BT1 Louisiana	
BT2 Gulf Coast	
Vicksburg	
See Louisiana	
See Mississippi	
See Texas	
Vicksburg Formation	
RT Louisiana	
RT Mississippi	
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

Geopressured Geothermal Bibliography

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
Use Waste disposal

Wastes

NT1 Gaseous wastes
NT1 Liquid wastes
NT1 Radioactive wastes
NT1 Solid wastes
NT1 Waste heat
RT Pollution
RT Recovery processes
RT Waste disposal
RT Waste management
RT Water pollution
Also see Dissolved solids
Also see Gases
Also see Ground water
Also see Mineral wastes
Also see Surface waters
Also see Waste management

Also see Water

Water

NT1 Brackish water
 NT1 Drinking water
 NT1 Fresh water
 NT1 Rain water
 NT1 Salt water
 RT Atmospheric precipitations
 RT Ground water
 RT Hydrates
 RT Hydrosphere
 RT Jets
 RT Liquid wastes
 RT Steam
 RT Subsurface waters
 RT Surface waters
 RT Waste water
 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

Geopressured Geothermal Bibliography

RT Leakage	RT Well testing
Water jets Use Jets	Water purification Use Water treatment
Water level Use Water table	Water quality RT Drinking water RT Irrigation RT Water RT Water pollution RT Water treatment
Water management BT1 Management RT Ground water RT Irrigation RT Water resources	Water recovery Use Water production
Water monitoring BT1 Monitoring RT Air monitoring RT Water analysis RT Water pollution	Water requirements RT Water RT Water resources
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 reservoirs BT1 Surface waters NT1 Cooling ponds RT Basins RT Fresh water RT Lakes RT Reservoir engineering RT Water resources
Water pollution abatement BT1 Abatement RT Pollution control equipment RT Water pollution RT Water pollution control	Water resources BT1 Resources RT Ground water RT Rain water RT Subsurface waters RT Surface waters RT Water RT Water management RT Water requirements RT Water reservoirs RT Water rights
Water pollution control BT1 Pollution control BT2 Control RT Water pollution RT Water pollution abatement	Water rights RT Legal aspects RT Water resources
Water production BT1 Production RT Formation testing RT Oil production RT Production testing RT Water entry	Water saturation RT Gas saturation RT Oil saturation RT Reservoir rocks
	Water springs NT1 Mineral springs NT1 Thermal springs RT Aquifers RT Artesian wells RT Ground water

- RT Water table
- Water table
- RT Aquifers
 - RT Drawdown
 - RT Ground water
 - RT Ground water recharge
 - RT Vadose water
 - RT Water springs
- Water table aquifers
- Use Aquifers
- Water treatment
- RT Desalination
 - RT Water quality
- Water vapor
- BT1 Vapors
 - BT2 Gases
 - RT Steam
 - RT Water
- Waters
- See Atmospheric precipitations
 - See Coastal waters
 - See Environment
 - See Flashing
 - See Geothermal fluids
 - See Hydrogeology
 - See Hydrothermal systems
 - See Oceanography
 - See Plankton
 - See Salt water
 - See Seas
 - See Shores
 - See Subsurface reservoirs
 - See Subsurface waters
 - See Surface waters
 - See Thermal effluents
 - See Thermal waters
 - See 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

Geopressured Geothermal Bibliography

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

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 Subterrane 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

Geopressured Geothermal Bibliography

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

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

Geopressured Geothermal Bibliography

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

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 15
 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

Geopressured Geothermal Bibliography

- Anticlines 16
Anticlinoria 16
Antifoulants 16
Antimony 16
Apartment buildings 16
Aphanite 16
Aphanitic 16
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
Arcs 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
Availability 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
Barriers 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
Biostratigraphy 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
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

Geopressured Geothermal Bibliography

- 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
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
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

Geopressured Geothermal Bibliography

- 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
Demineralization 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
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

Geopressured Geothermal Bibliography

- Electric power 52
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 51
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 51
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
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 57
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
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

Geopressured Geothermal Bibliography

- 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
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 69
 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

Geopressured Geothermal Bibliography

- 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
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
- 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
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

Geopressured Geothermal Bibliography

- 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
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
- 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
KGRA's 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
- 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
Lawsuits 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
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

Geopressured Geothermal Bibliography

- 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
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 103
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 104
Nonaqueous 104
Nonaqueous
 solutions 104
Nonclastic 104
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 105
Nuclear power 105
Nuclear power
 plants 105
Nueces County 105
Numerical 105
Numerical analysis 105
Numerical solution 105
Numerical solutions 105
- O
- 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 106
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 107
Oklahoma 107
Oligocene 107
Oligocene Epoch 107
Opal 107
Open-cycle systems 107
Operation 107
Opinion 107
Optical 107
Optical properties 107
Optimization 107

Geopressured Geothermal Bibliography

- 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 108
Overburden 108
Overdraft 108
Overpressure 108
Overpressured 108
Overpressured reservoirs 108
Overturned folds 108
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 109
Paleontology 109
Paleopressure 109
Paleozoic 109
Paleozoic Era 109
Paper 109
Paper industry 109
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 110
Period 110
Periods 110
Permafrost 110
Permeability 110
Permeability barriers 110
Permeability restoration 110
Permian 110
Permian Period 110
Permits 110
Personnel 110
Petrochemical plants 110
Petroleum 110
Petroleum deposits 111
Petroleum exploration 111
Petroleum geology 111
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 112
Physical properties 112
Physiography 112
Pieistic water 112
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 113
 Planning 113
 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 114
 Plutonic 114
 Plutonic rocks 114
 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
 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

Geopressured Geothermal Bibliography

- 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
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 123
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 125

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

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

Geopressured Geothermal Bibliography

- 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
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
 Serpientes 138
 Setting 138
 Shale 138
 Shale control 138
 Shale diapirs 139
 Shale treatment 139
 Shale water influx 139
 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 140
 Silt production 140
 Siltstone 140
 Silurian 140
 Silurian Period 140
 Silver 140
 Silver inorganic compounds 140
 Simulation 140
 Site 140
 Site preparation 140

Geopressured Geothermal Bibliography

- Site selection 140
Sites 140
Size 140
Slate 140
Slip 140
Slope 140
Slope stability 140
Slopes 140
Slurry packing 140
Smackover
Formation 140
Snow 140
Social 140
Social impact 140
Socio-economic 140
Socio-economic factors 141
Sociology 141
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 142
Solidification 142
Solids 142
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 143
Sources 143
South America 143
South China Sea 143
Soviet 143
Soviet Union 143
Sp 143
Sp logging 143
Space 143
Space heating 143
Spacing 143
Specific 143
Specific heat 143
Specifications 143
Spectrometric 143
Spectrometric surveys 143
Spectroscopy 143
Sphalerite 143
Sphalerites 144
Spontaneous potential logging 144
Spreading 144
Springs 144
Springs (water) 144
St Mary Parish 144
Stability 144
Stack 144
Stack disposal 144
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 145
Statistical 145
Statistical models 145
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 146
Stock 146
Stock intrusions 146
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 147
Streams 147
Strength 147
Strength (shear) 147
Stress 147
Stress corrosion 147
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 148
Submarine trenches 148
Subnormal formation pressure 148
Subnormal pressure 148
Subpressure 148
Subsidence 148
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 149
Sulfide 149
Sulfide minerals 149
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 150
Surface waters 150
Surpressure 150
Surveys 150
Suspended 150
Suspended solids 150
Swimming pools 150
Symposia 150
Synclines 151
Synclinoria 151
Synthetic fuels 151
Systems 151
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 152
Tectonism 152
Telluric 152
Telluric current exploration 152
Telluric surveys 152
Tellurium 152
Temperature 152
Temperature (<25 deg c) 152
Temperature (>400 deg c) 152

Geopressured Geothermal Bibliography

- 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) 153
Temperature control 153
Temperature dependence 153
Temperature distribution 153
Temperature effects 153
Temperature gradients 153
Temperature inversion 153
Temperature logging 153
Temperature measurement 153
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 154
Test 154
Test facilities 154
Testing 154
Tests 154
Texas 154
Texas Railroad Commission 154
Texas Water Quality Board 154
Textbooks 154
Thallium 154
Theoretical 155
Theoretical treatments 155
Thermal 155
Thermal capacity 155
Thermal conduction 155
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 156
Thermal gradients 156
Thermal insulation 156
Thermal logging 156
Thermal pollution 156
Thermal power plants 156
Thermal properties 156
Thermal springs 156
Thermal waters 156
Thermodynamic 156
Thermodynamic cycles 156
Thermodynamic properties 156
Thermodynamics 156
Thermoelasticity 157
Thermometers 157
Thermometry 157
Thickness 157
Thickness maps 157
Thorium 157
Thrust faults 157
Tidal 157
Tidal power 157
Tidal power plants 157
Tide 157
Tigre Lagoon Geothermal Field 157
Time dependence 157
Times 157
Tin 157
Titanium 157
Titles 157
Topographic 157
Topographic features 157
Topography 157
Topological 157
Topological mapping 157
Total dissolved solids 157

- Total flow systems 157
 Towers 158
 Toxicity 158
 Trace 158
 Trace amounts 158
 Trace elements 158
 Trade 158
 Trans-pecos 158
 Trans-Pecos Hot
 Rocks 158
 Transfer 158
 Transfer (energy) 158
 Transfer (heat) 158
 Transfer (mass) 158
 Transfer pipes 158
 Transformations 158
 Transition 158
 Transition elements 158
 Transition
 temperature 158
 Transmissibility 158
 Transmission 158
 Transmissivity 158
 Transportation 158
 Transuranium 158
 Transuranium
 elements 158
 Traps 159
 Travel time 159
 Treatment 159
 Treatments 159
 Trenches 159
 Trend 159
 Trend analysis 159
 Trend maps 159
 Trend surface
 analysis 159
 Trends 159
 Triassic 159
 Triassic Period 159
 Tridymite 159
 Troposphere 159
 Tuff 159
 Tungsten 159
 Turbine 159
 Turbines 159
 Turkey 159
 Two phase 159
 Two phase flow 159
- U**
 Uinta 160
 Uinta basin 160
 Unconfined
 aquifers 160
- Unconfined ground
 water 160
 Underground 160
 Underground
 disposal 160
 Underground
 explosions 160
 Underpressure 160
 Union of Soviet Socialist
 Republics 160
 United States 160
 United States of
 America 160
 Unwatering 160
 Uplifts 160
 Ural Mountains 160
 Urals 160
 Uranium 160
 Uranium compounds 160
 Urban 160
 Urban areas 160
 Urban populations 160
 US 161
 US AEC 161
 US Atomic Energy
 Commission 161
 US Bureau of
 Reclamation 161
 US DOE 161
 US EPA 161
 US ERDA 161
 US organizations 161
 USA 161
 Uses 160
 USSR 161
 Utah 160
 Utilities 160
 Utilization 160
- V**
 Vadose water 161
 Valles Caldera 161
 Valles Caldera
 Geothermal Field 161
 Valley 161
 Valleys 161
 Value 161
 Vanadium 161
 Vapor 162
 Vapor (saturated) 162
 Vapor condensers 162
 Vapor dominated
 systems 162
 Vapor generators 162
 Vapor pressure 162
 Vapor separators 162

Geopressured Geothermal Bibliography

- Vapor solubility 162
Vaporizing 162
Vapors 162
Variations 162
Velocity 162
Velocity of sound 162
Vermillion Parish 162
Vicksburg 162
Vicksburg Formation 162
Viscosity 162
Vitrinite 162
Volatility 162
Volcanic 162
Volcanic activity 163
Volcanic regions 163
Volcanicity 163
Volcanism 163
Volcanoes 163
Volga 163
Volga River 163
Volume 163
Vulcanism 163
- W
- Wairakei 163
Wairakei Geothermal Field 163
Wairakite 163
Warm springs 163
Warming 163
Washing 163
Washington 163
Waste 163
Waste disposal 164
Waste heat 164
Waste injection 164
Waste management 164
Waste processing 164
Waste storage 164
Waste transportation 164
Waste treatment 164
Waste water 164
Waste water disposal 164
Wastes 164
Water 165
Water analysis 165
Water conditioning 165
Water entry 165
Water fracturing 165
Water inflow 165
Water influx 165
Water jets 166
Water level 166
- Water management 166
Water monitoring 166
Water pollution 166
Water pollution abatement 166
Water pollution control 166
Water production 166
Water purification 166
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 167
Water table aquifers 167
Water treatment 167
Water vapor 167
Waters 167
Wave propagation 167
Waves 167
Weather 167
Weeks Island 167
Well 167
Well acidizing 168
Well casings 168
Well cementing 168
Well characteristics 168
Well completion 168
Well data 168
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 169
Well logging 169
Well logging equipment 169
Well logs 169
Well monitoring 169
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

Index

- Wellhead prices 170
Wellheads 170
Wells 170
Wells of
 opportunity 170
West Germany 170
West Indies 171
West Virginia 171
Wet steam systems 171
Wilcox Formation 171
Wild animals 171
Wildcat 171
Wildcat wells 171
Willacy County 171
Wind 171
Wind energy 171
Wind power 171
Wind power plants 171
Wireline operation 171
Withdrawal 171
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 172
Zinc 172
Zonation 172
Zones 172
Zoning 172
- 2
- 2-methylpropane 172