Geopressured Geothermal Bibliography

Volume II (Geopressure Thesaurus)

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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. A thesaurus is a compiliation 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 a 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.

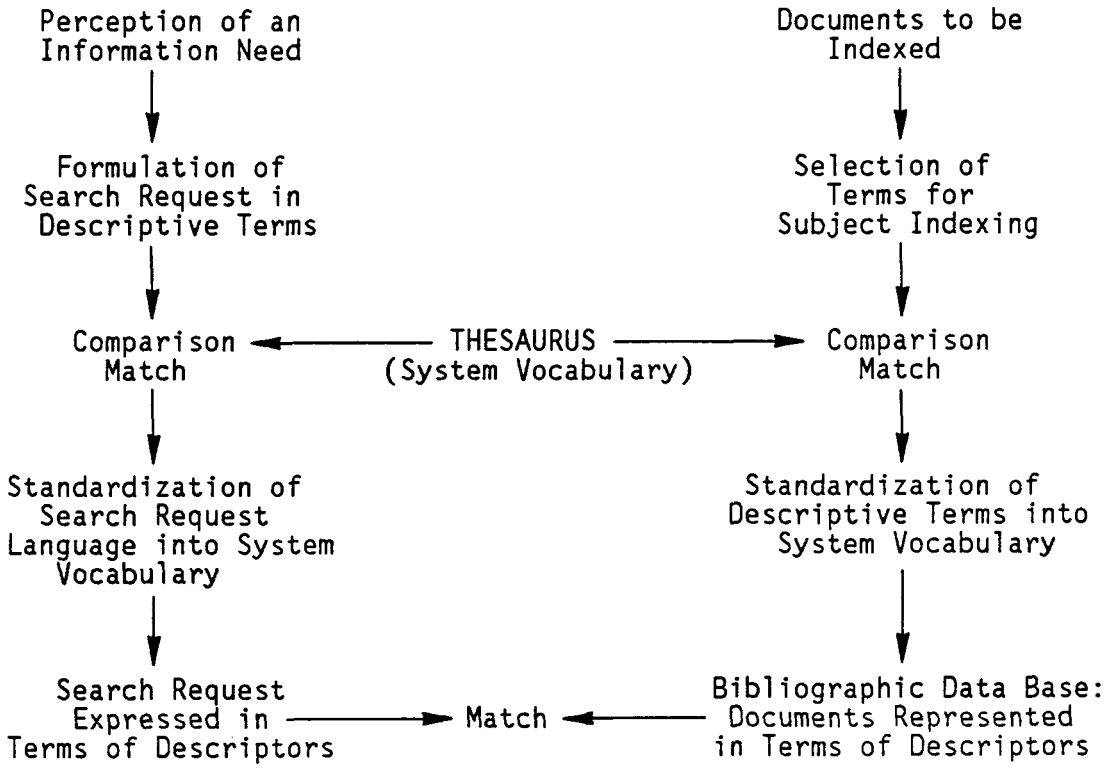

FIGURE 1 Role of a Thesaurus in an Information-Retrieval System

2.0 Subject Scope

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

1. Geopressure resource assessment: geographical distribition, 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 refererences. These references guide the user from the form of term used in other thesauri to the term expressing the same concept in the Geopressure Thesaurus.

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

4.0 Display Format

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

An on-line display has several advantages:

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

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

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

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

5.0 Thesaurus Structure

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

5.1 Cross-Reference Structure

The relationships used in the GGIS Thesaurus are the following:

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

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

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

INJECTION WELLS	WELLS
BT1 WELLS	NT1 INJECTION WELLS

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

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

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

PERMEABILITY	POROSITY
RT POROSITY	RT PERMEABILITY

SEE references are discussed in the Term Entry section.

5.2 Term Form

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

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 substitiuted 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 Laboratroy Geothermal Thesaurus served as the prototype for the hierarchical structure. Second, in order to ensure that the vocabulary reflects current usage in the field, candidate terms were collected from titles, abstracts, and indexing of a representative sample of documents, including documents stored in GEOBIB, numerous review articles, textbooks, and glossaries. Finally, terms were extracted from other more general vocabularies such as "The LBL Geothermal Thesaurus," "DOE Energy Information Data Base Subject Thesaurus," the Engineers Joint Council "Thesaurus of Engineering Terms" (5), the "Thesaurus of Water Resource Terms" prepared by the Bureau of Reclamation of the U.S. Department of the Interior (9), the American Petroleum Institute "API Thesaurus" (3) , the American Geological Institute "GeoRef Thesaurus and Guide to Indexing" (1), the Engineering Index "SHE: Subject Headings for Engineering" (4), and the "Exploration and Production Thesaurus" prepared by the University of Tulsa (10).

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.

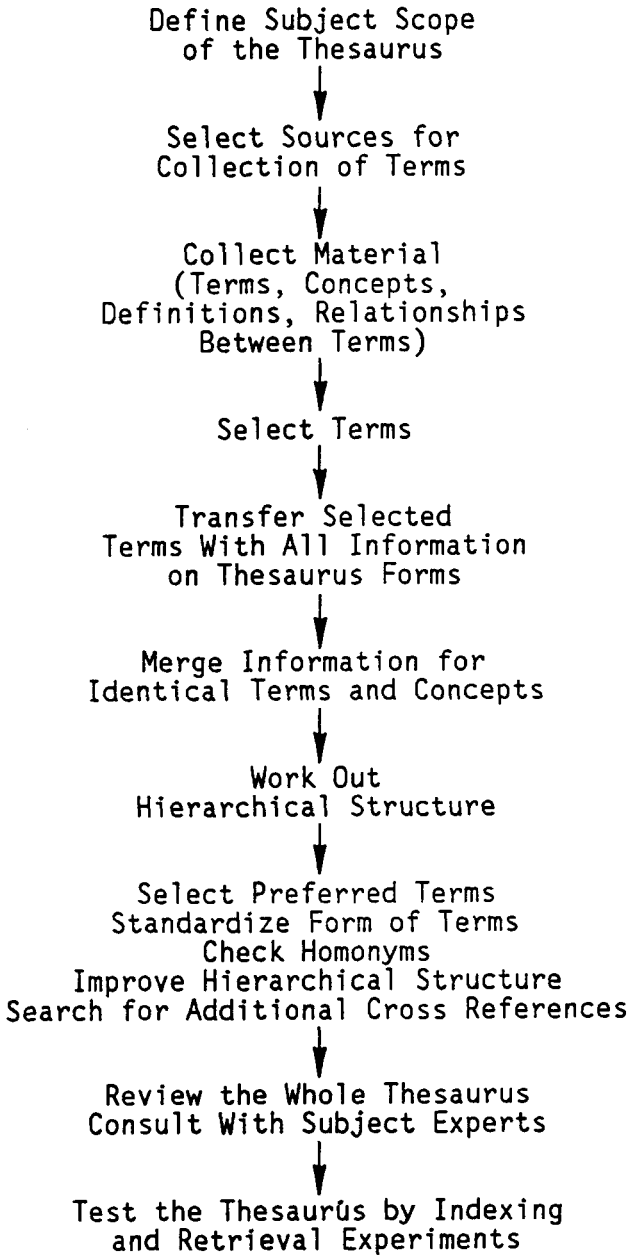

FIGURE 2 Flow of Work in Thesaurus Construction

8.0 References

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4. Engineering Index, Inc. "SHE: Subject Headings for Engineering." New York: Engineers Joint Council, 1964.

5. Engineers Joint Council. "Thesaurus of Engineering Terms." New York: Engineers Joint Council, 1964.

6. Kerr, Jessie Jr. "Development of a Geothermal Thesaurus." Berkeley, CA: University of California, Lawrence Berkeley Laboratory, 1975. <LBL-4605>.

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9. U.S. Department of the Interior. Bureau of Reclamation. "Thesaurus of Water Resource Terms." Washington, DC: U.S. Government Printing Office, 1971.

10. University of Tulsa. Information Services Division. "Exploration and Production Thesaurus." 5th ed. Tulsa, OK: University of Tulsa, 1976.

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
See Geopressure
See Subnormal formation pressure

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
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Abstracts
BT1 Document types
NT1 Leading abstract

Abundance
RT Availability
RT Chemical composition
RT Distribution

Acadia
See Acadia Parish

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
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Acid
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Acid treatment
Use Acidization

Acidification
Use Ph adjustment

Acidity
Use Ph value

Acidization
RT Permeability
RT Permeability restoration
RT Ph adjustment
RT Scrubbing
RT Well stimulation

Acidizing
See Acidization

Acoustic
See Acoustic monitoring
See Sonic logging
See Sound velocity
See Sound waves

Acoustic logging
Use Sonic logging

Acoustic monitoring
BT1 Monitoring
RT Sonic logging

Acoustic velocity
Use Sound velocity

Acoustic waves
Use Sound waves

Acquisition
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Actinides
BT1 Metals
BT2 Elements
NT1 Plutonium
NT1 Thorium
NT1 Uranium

Activation
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See Fault systems
See Faults
See Waste disposal

Active
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Active faults
BT1 Faults
BT2 Geologic structures

Activity
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Adjustment
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Administration
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Use Management

Adsorption
RT Chemisorption
RT Deposition
RT Separation processes
RT Surface properties

Adularia
BT1 Feldspars
BT2 Silicate minerals

Aerial
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Aerial prospecting
Use Aerial surveys

Aerial surveys
BT1 Exploration methods
RT Remote sensing

Africa
BT1 Continents
NT1 Nigeria

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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 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
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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

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BT1 Pollution control
BT2 Control
RT Air pollution
RT Air pollution abatement
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RT Air monitoring
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Alabama
BT1 USA
BT2 North America
RT Chattahoochee River
RT Chattahoochee Formation
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RT Tennessee River
RT Vicksburg Formation

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Alaska
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Alkali metals
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NT1 Cesium
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NT1 Lithium
NT1 Potassium
NT1 Rubidium
NT1 Sodium

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Alkaline earth metals
BT1 Metals
BT2 Elements
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NT1 Beryllium
NT1 Calcium
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NT1 Strontium

Alkalinity
Use Ph value

Alkanes
BT1 Hydrocarbons
BT2 Organic compounds
NT1 Ethane
NT1 Hexane
NT1 Methane
NT1 Pentane
NT1 Propane
NT1 2-methylpropane

Allocations
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RT Distribution
RT Economic policy
RT Energy policy
RT Management
RT Planning

Alloys
NT1 Corrosion resistant alloys
NT1 Steels
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Alluvial
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Alluvial deposits
BT1 Sediment deposits
BT2 Sediments
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Alluvium
BT1 Geologic deposits
RT Alluvial deposits
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RT Sediments

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Aluminum inorganic compounds

Alunite
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Ammonia
BT1 Hydrogen inorganic compounds
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Amorphous
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Amphiboles
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Amphibolite
BT1 Metamorphic rocks
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NT1 Chemical analysis
NT1 Data analysis
NT1 Gas analysis
NT1 Water analysis
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Anthropogenic occurrence
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NT1 Diapirs
NT1 Geanticlines
RT Anticlinoria
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BT2 Geologic structures
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Antimony
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Aphanite
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RT Subsurface waters

Artesian basins
RT Aquifers
RT Artesian aquifers
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Artesian pressure
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Artesian water
BT1 Subsurface waters
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RT Artesian wells
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RT Free water
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Associated gases
Use Dissolved gases

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Atmosphere (Earth)
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Atmospheric
See Air pollution
See Atmospheric precipitations

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BT1 Transition elements
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RT Corrosion inhibitors
RT Corrosion monitoring
RT Corrosion products
RT Corrosion protection
RT Corrosion resistant alloys
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RT Failures
RT Fouling
RT Materials testing
RT Salinity
RT Solutions
RT Surface properties
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RT Corrosion
RT Corrosion monitoring
RT Corrosion protection

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BT1 Monitoring
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Corrosion products
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RT Coatings
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Corrosion resistance
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Corrosive
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Corrosive effects
BT1 Effects
RT Brines
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Coso Hot Springs KGRA
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Cost benefit analysis
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BT1 Mechanical properties
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BT1 Silica minerals
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Crust
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RT Amorphous state
RT Crystals
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Crystallography
BT1 Nuclear magnetic resonance
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NT1 Cultivation techniques
RT Crops
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Cultivation techniques
BT1 Cultivation
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BT1 Analysis
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BT1 Chemical reactions
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BT1 Thermoelasticity
NT1 Rock deformation
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BT1 Geologic provinces
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Demineralization
BT1 Separation processes
NT1 Desalination
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Demonstration plants
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Demonstration programs
RT Commercialization
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BT1 Physical properties
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Depletion (ground water)
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Depletion (resource)
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RT Accumulation
RT Accumulation rate
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Deposition rate
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Depositional
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Depositional environment
BT1 Environment
RT Deposition
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Depositional faults
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BT1 Dimensions
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NT1 Well design
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Devonian Period
BT1 Paleozoic Era
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RT Deep wells
RT Dehydration
RT Drawdown
RT Evaporation
RT Ground water
RT Pumping
RT Wells

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BT1 Texas
BT2 USA
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BT1 Texas
BT2 USA
BT3 North America

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BT1 Intrusive rocks
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RT Burial
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NT1 Hole diameter

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BT1 Anticlines
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NT1 Shale diapirs
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BT1 Geologic processes
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BT1 Equations
NT1 Lagrange equations
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BT1 Hydrologic properties
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BT1 Well logging

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Direct energy utilization
RT Agriculture
RT Air conditioning
RT Demineralization
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RT District heating
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RT Geothermal refrigeration
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BT1 Drilling
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BT1 Igneous intrusions
NT1 Dike intrusions
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Disposal formations
RT Disposal wells
RT Formation damage
RT Waste disposal
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Disposal wells
BT1 Injection wells
BT2 Wells
RT Disposal formations
RT Waste disposal
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BT1 Gases
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RT Ammonia
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RT Methane
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Dissolved salts
BT1 Salts

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BT1 Solids
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NT1 Geographical distribution
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BT1 Cooling

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RT Information systems

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BT1 Carbonate minerals
BT2 Minerals
RT Calcium carbonates
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RT Dolomite rocks
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Dolomite mineral
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Dolomite rocks
BT1 Nonclastic rocks
BT2 Sedimentary rocks
RT Dolomite

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Domestic
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Domestic animals
BT1 Animals
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Downhole pressure
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Downhole pumps
BT1 Pumps
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BT1 Sampling
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Downhole temperature
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RT Hydrology
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RT Dewatering
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RT Ground water recharge
RT Pressure decline
RT Water table
RT Well spacing

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See Drill bits
See Drill collars
See Drill cores
See Drill pipes
See Drill stem testing
See Drills
See Well drilling
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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
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RT Formation testing

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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
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Also see Drilling rate
Also see Drills
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Drilling equipment
BT1 Equipment
NT1 Coring equipment
NT1 Drill bits
NT1 Drill collars
NT1 Drill pipes
NT1 Drills
RT Blowout preventers
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Drilling fluid flow rate
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Drilling fluids
RT Circulation
RT Drilling
RT Drills
RT Lubricants
RT Mud logging
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Drilling muds
Use Drilling fluids

Drilling rate
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
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See Drinking water

Drinking water
BT1 Water
RT Fresh water
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Drive mechanism

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See Pressure release

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See Hot dry rock systems
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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
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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
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NT1 Stratosphere
NT1 Troposphere
RT Air
RT Air pollution
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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

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Earth interior
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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
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RT Seismic waves
RT Seismology

Earth penetrators
BT1 Penetrators
RT Subterrene penetrators

Earth planet
RT Continental crust
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RT Geography
RT Geophysics
RT Lithosphere
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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

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BT1 Seismic events
BT1 Earth movements
NT1 Microearthquakes
RT Seismic S waves
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RT Seismology
RT Shock waves

Earths
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See East Mesa KGRA
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East Germany
Use German Democratic Republic

East Mesa
See East Mesa KGRA

East Mesa Geothermal Field
Use East Mesa KGRA

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

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BT1 Biology
NT1 Baseline ecology
RT Ecosystems
RT Environment
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Economic
See Allocations
See Economic geology
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See Economics
See Energy policy
See Forecasting
See Government policies
See Inflation
See Mineral production
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Economic analysis
BT1 Economics
RT Regional analysis

Economic geology
BT1 Geology
RT Economics
RT Mineral production

Economic impact
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RT Inflation
RT Socio-economic factors

Economic policy
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RT Forecasting
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NT1 Economic analysis
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RT Budgets
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RT Cost benefit analysis
RT Deregulation
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RT Financing
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RT Market
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RT Taxes
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NT1 Aquatic ecosystems
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RT Biosphere
RT Communities
RT Ecology
RT Environment
RT Populations
Also see Aquatic organisms
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BT1 Louisiana
BT2 USA
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NT1 Biological effects
NT1 Corrosive effects
NT1 Environmental effects
NT1 Heterogenous effects
NT1 Temperature effects
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Also see Biology
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Also see Heat
Also see Seismic effects
Also see Seismic events
Also see Thermal pollution
Also see Water pollution

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NT1 Thermal efficiency
RT Comparative evaluations
RT Feasibility studies
RT Net energy
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RT Performance testing
RT Productivity
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Effluents
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See Temperature effects
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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
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See Pumps
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El Paso County
BT1 Texas
BT2 Gulf Coast

El Salvador
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Elastic
See Elasticity

Elastic properties
Use Elasticity

Elasticity
BT1 Tensile properties
BT2 Mechanical properties
NT1 Thermoelasticity
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Elecric generators
RT Power generation

Electric
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See Electric heating
See Electric potential
See Electric power
See Electric power industry
See Power generation
See Power plants
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Electric conductivity
BT1 Electrical properties
BT2 Physical properties

Electric heating
BT1 Heating
RT Space heating

Electric potential

Electric power
BT1 Energy
BT1 Power
RT Electric power industry
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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
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Electrical conductivity
Use Electric conductivity

Electrical equipment
BT1 Equipment

Electrical exploration
BT1 Geophysical exploration
BT2 Exploration
RT Electrical surveys
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BT1 Well logging
NT1 Induction logging
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Electrical properties
BT1 Physical properties
NT1 Dielectric constant
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Electrical resistivity
Use Electric conductivity

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BT1 Geophysical surveys
BT2 Exploration methods
NT1 Electromagnetic surveys
NT1 Magnetotelluric surveys
NT1 Resistivity surveys
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RT Electrical logging
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Electrodialysis
BT1 Separation processes
RT Demineralization
RT Desalination
RT Diffusion
RT Mass transfer
RT Permeability
RT Semipermeable membranes

Electrolysis
RT Anions
RT Cations
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Electromagnetic radiation
NT1 Gamma radiation

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BT1 Electrical surveys
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NT1 Metals
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Also see Trace amounts
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Elevated
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Elevated concentration
RT Concentration dependence

Elevated pressure
RT Pressure dependence

Elevated temperature
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Elongation
RT Deformation
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Embayment
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Emission
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Emission spectroscopy
BT1 Measuring methods

Empirical
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Empirical equations
BT1 Equations
RT Mathematical models
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Energy
- NT1 Electric power
- NT1 Geothermal energy
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- RT Energy sources
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- Also see Availability
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- Also see Economics
- Also see Energy balance
- Also see Energy conservation
- Also see Energy consumption
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- Also see Energy policy
- Also see Energy reserves
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- Also see KGRAs
- Also see Net energy
- Also see Nuclear power plants
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- 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 reserves
- BT1 Reserves
- 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

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

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
See Directional drilling

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

Epa
Use US EPA

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
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
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
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

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

Falls
See Klamath Falls KGRA

Farm
See Domestic animals
See Farm buildings

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
See German Federal Republic
See Public lands

Federal lands
Use Public lands

Federal Buildings
BT1 Buildings
RT Military facilities
RT Office buildings
RT Public buildings

Federal Republic of Germany
Use German Federal Republic

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

Ffg

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

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
See Injection rates

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
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

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

Fluorite
BT1 Halide minerals
BT2 Minerals

Flux
See Heat flow

Fold
See Fold systems

Fold systems
BT1 Geologic structures
NT1 Anticlinoria
NT1 Synclinoria
RT Folds

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

Food processing

Foraminifera
BT1 Protozoa
BT2 Microorganisms
BT2 Invertebrates
RT Biostratigraphy
RT Paleontology

Forecasting
RT Correlation
RT Economic policy
RT Evaluation
RT Management
RT Market
RT Possibilities

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

Formation damage
RT Disposal formations
RT Permeability
RT Plugging
RT Well completion

Formation fracture gradient
Use FFG

Formation fracturing
Use Fracturing

Formation heat
BT1 Reaction heat
BT2 Enthalpy

Formation plugging
Use Plugging

Formation pressure
Use Reservoir pressure

Formation testing
BT1 Testing
RT Bottom hole pressure
RT Bottom hole temperature
RT Gas production
RT Reserves
RT Reservoir engineering
RT Reservoir pressure
RT Sampling
RT Well logging
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
See Fossil fuel power plants
See Fossil fuels

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
See Fractured reservoirs

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
See Clastic rocks

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
See Frasch sulfur process

Frasch sulfur process
BT1 Recovery processes
RT Sulfur

Free
See Free water
See Ground water

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
See Drinking water
See Fresh water
See Salt water

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
BT2 Gulf Coast

Gamma
See Gamma radiation
See Gamma ray logging
See Gamma ray surveys
See Gamma spectroscopy

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
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 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
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 Noncondensible 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
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
See Geothermal brines

Geo brines
Use Geothermal brines

Geochemical
See Geochemical surveys

Geochemical surveys
BT1 Exploration methods
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
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RT Leakage
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NT1 Edna Delcambre No. 1 Well
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BT1 Subsurface reservoirs
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Magnesium carbonates
BT1 Magnesium inorganic compounds
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Magnesium chlorides
BT1 Magnesium inorganic compounds
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Magnesium inorganic compounds
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Magnesium sulfates
BT1 Magnesium inorganic compounds
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Matagorda County
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BT1 Texas
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Materials recovery
BT1 Waste processing
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BT1 Testing
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BT1 Phase transformations
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Mesozoic Era
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BT1 Elements
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NT1 Alkali metals
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Metamorphic rocks
BT1 Rocks
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BT1 Geologic processes
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BT1 Ground water
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NT1 Atmospheric precipitations
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RT Seasons
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RT Storms
RT Temperature inversions
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BT1 Alkanes
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Methylene blue
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BT1 Silicate minerals
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NT1 Biotite
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BT1 Feldspars
BT2 Silicate minerals

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BT1 Earthquakes
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Microlaterologging
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Mineral composition
BT1 Composition

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Mineral production
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RT Economic geology

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BT1 Resources
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BT1 Ownership
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BT1 Water springs
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BT1 Solid wastes
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NT1 Halide minerals
NT1 Oxide minerals
NT1 Silica minerals
NT1 Silicate minerals
NT1 Sodium minerals
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RT Crystallography
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Miocene Epoch
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BT1 Gulf Coast
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NT1 Greene County
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RT Gulf Coast
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BT1 North America
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BT1 Carboniferous Periods
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BT1 Buildings
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Moderate concentration
RT Concentration dependence

Moderate pressure
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Moderate temperature
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Molybdenum
BT1 Transition elements
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NT1 Air monitoring
NT1 Corrosion monitoring
NT1 Scale monitoring
NT1 Temperature monitoring
NT1 Water monitoring
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Monitoring wells
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Mono-long
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BT1 Oxygen inorganic compounds
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BT1 Exploration
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BT1 Chemical properties
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BT1 Aquatic organisms
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NT1 Air pollution
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BT1 Control
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BT1 Trends
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Also see Combined cycle power generation
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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 Elecric 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

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
See Presidio County

Presidio County
BT1 Texas
BT2 Gulf Coast

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

Pressure (< 1.0 E05 newton/sq m)
Use Standard pressure

Pressure (< 1.02 kg/sq m)
Use Low pressure

Pressure (< 1.45 E01 psi)
Use Low pressure

Pressure (> 5.0 E07 newton/sq m)
Use High pressure

Pressure (> 5.1 E02 kg/sq m)
Use High pressure

Pressure (> 7.25 E04 psi)
Use High pressure

Pressure (<1 bar)
Use Low pressure

Pressure (>500 bar)
Use High pressure

Pressure (back)
Use Back pressure

Pressure (bottom hole)
Use Bottom hole pressure

Pressure (differential)
Use Differential pressure

Pressure (fluid)
Use Fluid pressure

Pressure (geostatic)
Use Geostatic pressure

Pressure (pore)
Use Pore pressure

Pressure (vapor)
Use Vapor pressure

Pressure (well head)
Use Well head pressure

Pressure (1 bar)
Use Standard pressure

Pressure (1.0 E04-5.0 E07 Newton/SQ M)
Use Elevated pressure

Pressure (1.0 E05 newton/sq m)
Use Standard pressure

Pressure (1.0 E05 pascals)
Use Standard pressure

Pressure (1.0 E05-1.0 E07 pascals)
Use Elevated pressure

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

Pressure (1.02 kg/sq m)
Use Standard pressure

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

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

Pressure (1.45 E01 psi)
Use Standard pressure

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

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

Pressure (1-100 bar)
Use Moderate pressure

Pressure (101-500 bar)
Use Elevated pressure

Pressure buildup

Pressure control
BT1 Control
RT Isopiestic measurement
RT Pressure measurement

Pressure decline
RT Drawdown
RT Time dependence

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

Pressure drawdown
Use Pressure decline

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

Pressure gages
BT1 Measuring instruments
RT Pressure measurement

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

Prieto
See Cerro Prieto Geothermal Field
See Hot water systems

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BT1 Document types
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
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Productivity
RT Efficiency
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RT Feasibility studies
RT Net energy
RT Performance testing
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RT Production testing
RT Production

Products
See Anthropogenic occurrence
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See Recovery processes

Profitabilty
RT Evaluation
RT Financial incentives
RT Income
RT Investment
RT Optimization
See Rate of Return

Profits
RT Charges
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RT Income

Programming
RT Computer codes
RT Computers

Programs
See Commercialization
See Computer codes
See Information needs
See Planning
See Research programs
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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
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See Mechanical properties
See Optical properties
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See Reservoir engineering
See Reservoir properties
See Rheology
See Rock properties
See Shear properties
See Strains
See Stresses
See Surface properties
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See Well characteristics

Prospecting
Also see Aerial surveys
Use Exploration

Protection
See Corrosion
See Corrosion monitoring
See Corrosion protection
See Crevice corrosion
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Protozoa
BT1 Microorganisms
BT1 Invertebrates
BT2 Animals
NT1 Foraminifera
RT Paleontology

Provinces
See Geologic provinces

Psi
See High pressure
See Low pressure
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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
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See Sociology

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Use Public opinion

Public buildings
BT1 Buildings
RT Federal buildings

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

Public opinion
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Public relations
RT Management
RT Public opinion
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Public utilities
RT Electric power
RT Natural gas
RT Power generation

Pumice
BT1 Pyroclastic rocks
BT2 Extrusive rocks

Pump
See Aquifer tests

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
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Purification
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Pyrite
BT1 Sulfide minerals
BT2 Minerals

Pyrites
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Also see Pyrite
Use Sulfide minerals

Pyroclastic
See Pyroclastic rocks
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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

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See Chemical composition
See Chemistry
See Gas analysis
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Qualitative chemical analysis
BT1 Chemical analysis
BT2 Analysis
RT Chemical analysis methods
RT Chemical composition
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RT Gas analysis
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Quality
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See Chemical composition
See Chemistry
See Gas analysis
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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
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Quaternary Period
BT1 Cenozoic Era
BT2 Geologic times
NT1 Pleistocene Epoch
NT1 Recent Epoch

Queen
See Louisiana
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Queen City Formation
RT Louisiana
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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
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Radioactivity
RT Contamination
Also see Radioactivity logging
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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
See Raft River KGRA

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
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Also see Rain water

Rain water
BT1 Water
RT Rain
RT Water resources

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Ranges
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Rankin County
BT1 Mississippi
BT2 Gulf Coast

Rankine
See Power generation
See Rankine cycle
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Rankine cycle
BT1 Thermodynamic cycles
RT Rankine cycle power systems
RT Steam turbine power generation

Rankine cycle power systems
RT Power generation
RT Rankine cycle

Rare
See Rare earths
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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
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See Rayleigh waves

Rayleigh waves
BT1 Seismic waves

Reaction
See Reaction heat

Reaction heat
BT1 Enthalpy
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NT1 Formation heat

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See Chemical equilibrium
See Chemical properties
See Chemical reactions
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Use Chemical reactions

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RT Plugging
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Recent Epoch
BT1 Quaternary Period
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Recharge
Also see Hydrology
Also see Injection wells
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Use Artificial recharge
Use Ground water recharge
Use Natural recharge

Recharge wells
Use Injection wells

Reclamation
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See US Bureau of Reclamation

Reclamation (land)
Use Land reclamation

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Recluse Field
BT1 Wyoming
BT2 Gulf Coast

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Recording systems
RT Data acquisition systems
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Recovery processes
NT1 Frasch sulfur process
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RT Public lands

Redox
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Redox potential
RT Oxidation
RT Redox reactions
RT Reduction

Redox reactions
BT1 Chemical reactions
NT1 Oxidation
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Reduction
BT1 Redox reactions
BT2 Chemical reactions
RT Redox potential
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BT1 Processing
RT Separation processes

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Regional analysis
RT Ecology
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RT Human populations
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Regions
See Arctic regions
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Regolith
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Regulations
NT1 Pollution regulations
NT1 Zoning
RT Agreements
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RT Local government
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RT Recommendations
RT Regulatory guides
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Regulatory
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Regulatory guides
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Rehabilitation
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Reinjection
Also see Injection wells
Use Artificial recharge

Reinjection wells
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Release
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Reliability
RT Failures
RT Hazards
RT Performance
RT Performance testing
RT Specifications
RT Systems analysis

Remote
See Aerial surveys
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See Remote control

Remote control
BT1 Control
RT Monitoring

Remote sensing
RT Aerial surveys
RT Infrared surveys

Republic
See German Democratic Republic
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Republics
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See Water resources

Requirements (land)
Use Land requirements

Requirements (water)
Use Water requirements

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Research programs
RT Demonstration programs
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RT Planning
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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
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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
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Reservoir engineering
BT1 Engineering
NT1 Well stimulation
RT Compaction
RT Formation testing
RT Geopressured reservoirs
RT Geothermal reservoirs
RT Hydraulic fracturing
RT Petroleum gelogy
RT Reservoir properties
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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
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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
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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
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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
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See Reservoir properties
See Reservoir temperature
See Subsurface reservoirs
See Volcanism
See Water reservoirs

Reservoirs (geothermal)
Use Geothermal reservoirs

Reservoirs (magma)
Use Magma reservoirs

Reservoirs (subsurface)
Use Subsurface reservoirs

Reservoirs (water)
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See Residential buildings

Residential buildings
BT1 Buildings
NT1 Apartment buildings
NT1 Houses

Residential structures
Use Residential buildings

Resistance
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See Crevice corrosion
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Resistivity logging
BT1 Electrical logging
BT2 Well logging
NT1 Laterolog
NT1 Microresistivity logging
RT Electrical surveys
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Resistivity surveys
BT1 Electrical surveys
BT2 Geophysical surveys
RT Induction logging

Resonance
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See Nuclear magnetic resonance

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See Resource conservation
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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
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Also see Rock mechanics
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Also see Water
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Resurgent
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Resurgent water
Use Juvenile water

Retrieval
See Information needs
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Retrofitting
BT1 Construction
RT Buildings

Return
See Profits

Return on investment
Use Profits

Revenue
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Reverse
See Thrust faults

Reverse faults
Use Thrust faults

Reversed
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Reversed folds
Use Overturned folds

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BT1 Document types
RT Research programs

Rheology
RT Creep
RT Deformation
RT Fluid flow
RT Mechanical properties
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Rhyolite
BT1 Extrusive rocks
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Ridges
See Rift valleys

Rift
See Colorado
See Fault systems
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See Rift valleys
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Rift valleys
BT1 Geologic structures
RT Continental drift
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RT Imperial Valley
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Rio
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See Rio Grande
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Rio Grande
BT1 Rivers
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Rio Grande Embayment
BT1 Texas
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Rio Grande Rift
BT1 North America
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RT Colorado
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Risk assessment
RT Energy source development

Risks
Use Hazards

River
See Mississippi River
See Raft River KGRA
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Rivers
BT1 Streams
BT2 Surface waters
NT1 Mississippi River
NT1 Rio Grande
NT1 Volga River
RT Deltas
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Rock
See Aquifers
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See Hydrothermal systems
See Mechanical properties
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See Rock drilling
See Rock failures
See Rock matrix
See Rock mechanics
See Rock properties
See Rocks
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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
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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
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Rock fluid interactions
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RT Rocks

Rock matrix

Rock mechanics
RT Field studies
RT Geothermal resources
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Rock properties
BT1 Physical properties
NT1 Rock drillability
RT Chemical composition
RT Fracture properties
RT Hydrologic properties
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RT Permeability
RT Porosity
RT Rock deformation
RT Rock stresses
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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
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RT Rock shear
RT Rock failures
See Formation stress
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Rocks
NT1 Igneous rocks
NT1 Metamorphic rocks
NT1 Plutonic rocks
NT1 Reservoir rocks
NT1 Sedimentary rocks
RT Cap rock
RT Geological setting
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RT Rock properties
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Also see Aphanitic rocks
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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
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Rotary
See Rotary drilling

Rotary drilling
BT1 Well drilling
BT2 Drilling

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RT Cost
RT Income
RT Investment
RT Licensing
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BT1 Penetrators
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BT1 Minerals
NT1 Alunite
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RT Sulfates

Sulfates
BT1 Oxygen inorganic compounds
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NT1 Barium sulfates
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NT1 Calcium sulfates
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RT Sulfate minerals
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Sulfide minerals
BT1 Minerals
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BT1 Sulfur inorganic compounds
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BT1 Equipment
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NT1 Coastal waters
NT1 Estuaries
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Suspended solids
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BT1 Surface waters

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NT1 Geosynclines
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RT Failures
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BT1 Geology
NT1 Plate tectonics
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RT Rift valleys
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BT1 Electrical surveys
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BT1 Semimetals
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See Moderate temperature
See Physical properties
See Reservoir temperature
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See Temperature control
See Temperature distribution
See Temperature effects
See Temperature gradients
See Temperature logging
See Temperature measurement
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See Thermal insulation
See Transition temperature
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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
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RT Standard temperature
RT Temperature distribution
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Temperature distribution
BT1 Distribution
RT Isotherm
RT Temperature dependence
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BT1 Effects
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Temperature gradients
NT1 Geothermal gradients
RT Isotherm
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Temperature logging
BT1 Well logging
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Temperature measurement
BT1 Measurement
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RT Geothermometry
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RT Physical properties
RT Temperature control
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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

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BT1 Louisiana
BT2 USA
BT3 North America

Tensile
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See Stresses
See Tensile properties

Tensile properties
BT1 Mechanical properties
NT1 Elasticity
RT Shear
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Tensile strength
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Terrebonne Parish
BT1 Louisiana
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Terrestrial
See Heat flow

Terrestrial heat flow
Use Heat flow

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Tertiary Period
BT1 Cenozoic Era
BT2 Geologic times
NT1 Eocene Epoch
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Test facilities
RT Aquifer tests
RT Comparative evaluations
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NT1 Drill stem testing
NT1 Materials testing
NT1 Performance testing
RT Feasibility studies
RT Laboratory testing
RT Sampling
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Tests
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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 Galveston County
NT1 Harris County
NT1 Hidalgo County
NT1 Hudspeth County
NT1 Jeff Davis 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
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RT Vicksburg Formation
RT Wilcox Formation

Texas Railroad Commission

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BT1 Document types

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BT1 Metals
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Theoretical treatments
BT1 Document types
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See Thermal insulation
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Thermal capacity
Use Specific heat

Thermal conduction
BT1 Heat transfer
BT2 Energy transfer
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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
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Thermal equilibrium
BT1 Equilibrium
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Thermal expansion
BT1 Expansion
RT Elongation
RT Thermoelasticity
RT Thermal expansivity

Thermal expansivity
BT1 Thermodynamic properties
BT2 Physical properties
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Thermal exploration methods
BT1 Geophysical surveys
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NT1 Geothermal gradient surveys
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Thermal gradients
Use Temperature gradients

Thermal insulation
RT Air conditioning
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Thermal logging
Use Temperature logging

Thermal pollution
BT1 Pollution
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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
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RT Boilers

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Use Thermodynamic properties

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BT1 Water springs
NT1 Hot springs
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RT Hydrothermal systems
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Thermal waters
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Thermodynamic
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RT Binary cycles
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BT1 Physical properties
NT1 Enthalpy
NT1 Specific heat
NT1 Thermal conductivity
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NT1 Transition temperature
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RT Energy recovery
RT Energy
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BT1 Elasticity
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NT1 Deformation
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BT1 Measuring instruments
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BT1 Dimensions
NT1 Formation thickness
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BT1 Actinides
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Tidal power
BT1 Energy sources
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BT1 Power plants
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Use Trace amounts

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BT1 Pipes
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BT1 Metals
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BT1 Thermodynamic properties
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BT1 Geologic structures
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BT1 Mathematics
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Trend maps
BT1 Stratigraphic maps
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BT1 Mesozoic Era
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BT1 Earth atmosphere
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BT1 Pyroclastic rocks
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BT1 Transition elements
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NT1 Gas turbines
NT1 Steam turbines
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BT1 Middle East
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Underground explosions
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BT1 Geologic structures
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BT1 Mountains
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Uranium compounds

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BT1 Human populations
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BT1 USA
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BT1 National organizations
NT1 LASL
NT1 US AEC
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US AEC
BT1 US organizations
BT2 National organizations

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BT1 US organizations
BT2 National organizations

US DOE
BT1 US organizations
BT2 National organizations
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BT1 US organizations
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US ERDA
BT1 US organizations
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BT1 North America
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NT1 Alabama
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Vadose water
BT1 Subsurface waters
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Valles Caldera
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BT1 Transition elements
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Vapor condensers
BT1 Condensers
NT1 Steam condensers
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Vapor dominated systems
BT1 Hydrothermal systems
BT2 Geothermal systems
RT Geysers Geothermal Field
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Vapor generators
NT1 Steam generators
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Vapor pressure
BT1 Thermodynamic properties
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BT1 Gases
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NT1 Water vapor
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NT1 Sound velocity
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NT1 Beulah Simon No. 2 Well
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BT1 Louisiana
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Vicksburg Formation
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BT1 Thermodynamic properties
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Volcanic regions
RT Volcanism
RT Volcanoes

Volcanicity
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BT1 Geologic processes
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RT Magma reservoirs
RT Plate tectonics
RT Pyroclastic rocks
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Volcanoes
RT Volcanic regions
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BT1 Europe
BT2 Continents
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BT1 Physical properties
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BT1 Geothermal fields
BT1 New Zealand
BT2 Australasia
RT Hot water systems

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BT1 Zeolites
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Warm springs
BT1 Thermal springs
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Washing
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BT1 USA
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BT1 Waste management
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RT Brine treatment
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BT1 Wastes
RT Aquaculture
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RT Thermal pollution

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RT Injectivity
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RT Injection pumps

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BT1 Management
NT1 Waste disposal
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NT1 Waste storage
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BT1 Processing
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