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Worldwide coverage of technical literature and patents related to oil and natural gas

■ Contents:

Exploration, development and production of oil and natural gas.
Geology, geophysics and geochemistry, drilling, well logging, well completion/servicing, oil and gas production, reservoir studies, recovery methods, petroleum transportation and storage, equipment, alternate fuels and energy sources, corrosion, ecology and pollution, mineral commodities.

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■ Source:

Items are selected from journals, patents, books, conference and meeting papers, government and technical reports, theses, and abstract journals.

■ Coverage:

From 1965.

■ Number of documents:

More than 855,000 records

■ Updating:

Weekly

■ Language of documents:

English

■ Cluster searching:

TULSA is included in the ENERGY predefined cluster.
(FILE CL ENERGY).

■ SDI Profiles:

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- Not available in TULSANS

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Sample Records

Display Format: MAX (thesis)

1/1 TULSA - (C) TULS
AN - 896847
TI - MANAGING THE RISKS OF GEOLOGIC CARBON SEQUESTRATION: A REGULATORY AND LEGAL ANALYSIS
AU - WILSON, E J
OS - CARNEGIE MELLON UNIV
SO - Ph.D. thesis, 2004; DISSERTATION ABSTRACTS INTERNATIONAL, SECTION B v.65, no.12, p.6585-B, June 2005. (ISSN 0419-4217; ISBN 0-496-16421-X; Order no.DA3155792; 160 pp; Abstract only)
NU - ISBN 0-496-16421-X; ISSN 0419-4217
LA - ENGLISH [ENG]
DT - ***THESIS (A)ABSTRACT ONLY***
IT - CARBON DIOXIDE INJECTION*; CARBON DIOXIDE*; REGULATION*; RISK*; RISK ANALYSIS*; UNDERGROUND STOR FACILITY*; COMPOUND*; ECONOMIC FACTOR*; GAS INJECTION*; INJECTION*; LEGAL CONSIDERATION*; MATHEMATICAL ANALYSIS*; MATHEMATICS*; OXIDE*; STORAGE FACILITY*; AIR POLLUTION; EMISSION CONTROL; GAS DISPOSAL; GLOBAL WARMING; SEQUESTRATION; WATER POLLUTION; AQUIFER; ATMOSPHERE; CARBON; CARBON CONTENT; COAL BED; CONCENTRATION; DEPLETED RESERVOIR; DEPTH; ECOLOGY; ELECTRIC POWER; ELECTRICITY; EMISSION; ENERGY; ENVIRONMENTAL IMPACT; FOSSIL FUEL; GAS LEAK; GAS RESERVOIR; GAS STORAGE; GASEOUS FUEL; GEOLOGIC DATA; GEOLOGY; GREENHOUSE GAS; GROUND WATER; HYDROGEN; MONITORING; MOTOR FUEL; OIL RESERVOIR; PARAMETER; POLLUTION CONTROL; POWER PLANT; REGULATORY AGENCY; REMOVAL; RESERVOIR CHARACTERISTIC; STABILIZATION; STACK GAS; STRATEGY; TOXIC EFFECT; TRANSPORTATION; WASTE GAS; ADMINISTRATION; ALKALI METAL; BUSINESS OPERATION; CHARACTERISTIC; CLIMATE; COMPOSITION; CONTAMINATION; CONTROL; DATA; DISPOSAL; ECOLOGY & POLLUTION; ELEMENT (CHEMICAL); ENGLISH; ENVIRONMENT; ENVIRONMENTAL POLLUTION; FLUID; FLUID LOSS; FUEL; GAS; GEOLOGIC STRUCTURE; GOVERNMENT; GROUP IVA; INDUSTRIAL PLANT; LEAK; MANAGEMENT; METEOROLOGICAL PHENOMENON; PHYSICAL PROPERTY; PLANNING; POWER; RESERVOIR; STORING; STRATA; TESTING; THESIS (A); WASTE DISPOSAL; WASTE MATERIAL; WATER
MH - CARBON DIOXIDE INJECTION*
CC - ECOLOGY & POLLUTION
AB - With increasing international willingness to act over rising concentrations of atmospheric carbon dioxide, the political impetus for reflecting CO2 emissions is growing. To meet the long-term goal of atmospheric stabilization of CO2 levels, a major technological transformation must occur in the energy sector. One strategy to achieve this is carbon capture and sequestration. Carbon dioxide is first captured from power plants or industrial sources and then sequestered deep underground, into depleted oil and gas reservoirs, saline aquifers, or unminable coal seams. Geologic sequestration could be coupled with fossil fuel use to make electricity, hydrogen, or transportation fuels with no net emissions of CO2 into the atmosphere. Geologic sequestration of CO2 (GS) is defined as injecting CO2 into deep (greater than ca 1 km) geologic formations for the explicit purpose of avoiding atmospheric emissions of CO2. (Longer abstract available) (Original not available from T.U.)
PY - 2005

Display Format: MAX (patent)

1/1 TULSA - (C) TULS
AN - 901323
TI - ENERGY RECLAIMING PROCESS
AU - HELLEUR, D
SO - U.S. 2006/0,048,920A1, p. 3/9/2006, f. 7/15/2005, pr. Can. 2/25/2003
(Appl. 2,419,774) and U.S. 7/9/2004 (Appl. 780,199) (F28F-0013/06).
(32 pp; 54 claims)
LA - ENGLISH [ENG]
DT - PATENT (A)
PN - US20060048920 A1 20060309 [US20060048920]
PD - 2006-03-09
AP - US -- 20050715
PR - US 780199 20040709 [2004US-0780199]
- CA 2419774 20030225 [2003CA-2419774]
IC - F28F-0013/06
IT - ALTERNATE ENERGY*; COMPRESSED GAS*; ELECTRIC POWER SOURCE*; HEAT
EXCHANGER*; HEAT TRANSFER*; WASTE HEAT*; ENERGY SOURCE*; HEAT*; POWER*;
COOLING EQUIPMENT; ELECTRIC POWER; ENERGY CONVERSION; FLASH
VAPORIZATION; HEATING EQUIPMENT; SURPLUS; DIAGRAM; EXPANDER; FLOW
CHART; (P) USA; ABUNDANCE; ALT FUELS & ENERGY SOURCES; CHANGE; CHART;
CONTROL; CONVERSION; ENGLISH; GAIN CONTROL; PATENT (A); PHASE BEHAVIOR;
PHASE CHANGE; VAPORIZATION
MH - ALTERNATE ENERGY*
CC - ALT FUELS & ENERGY SOURCES
AB - The process relates to gaseous sources from which to reclaim energy
using a pressurized direct contact heat exchanger, and in particular,
those sources containing a condensable vapor. While the main
applications involve water as the condensable vapor, the process is
applicable to other vapors, e.g. those in the chemical and petroleum
industries where various organic solvents are used. The reclaimed
energy can be in the form of a hot fluid, process steam and/or
electricity. It has particular application to a pressure combustion
furnace and the DOE's Clean Coal Technology; the combustion of wet
fuels (biomass, peat); pulp and paper; electrolysis of alumina or
water; detoxidation, thermal depolymerization, enhanced oil recovery
(and sequestering of carbon dioxide), and phytotechnology.
PY - 2006

Searching

Basic Index (default index)

Search by	Index	Search Hints	Examples
Terms from the Basic Index	/BI (default)	<p>The Basic Index is searchable without specifying a prefix.</p> <p>Use Boolean and proximity operators as well as limited and unlimited truncation.</p> <p>Left-hand truncation is available.</p> <p>Implied adjacency is available (search by phrases).</p>	<p>FRACTAL+ AND RESERVOIR</p> <p>+STATISTIC??</p> <p>FRACTAL+ RESERVOIR CHARACTERIZATION</p>
Title	/TI (or /ET)	<p>Search by single terms (operators) or by phrases (implied adjacency). Use truncation.</p> <p>All non-English titles are translated into English. From 1977 forward, the original language title appears in parentheses (except for non-Roman alphabet languages).</p>	<p>/TI DRILLING AND ASSEMBLY</p> <p>/TI DRILL+ HOLE? AND SUBSURFACE FORMATION?</p>
Index Words	/IW	<p>Search by single terms (operators) or by phrases (implied adjacency). Use truncation.</p> <p>With the NBR, MEM and GET commands, use the /IT index.</p> <p>For efficient use of Index Terms, see the chapter "Use of Thesaurus" on page 4.</p>	<p>/IW FRACTAL</p> <p>/IW DATA PROCESS+</p>
Abstract (not available in TULSANS)	/AB (or /EA)	<p>Search by single terms (operators) or by phrases (implied adjacency). Use truncation.</p> <p>Prior to 1978, only selected documents in the field of enhanced recovery have abstracts.</p>	<p>/AB DRILL+ HOLE? AND ROTOR</p>

Use of Thesaurus

Search by	Index	Search Hints	Examples
Index Terms	/IT	<p>Search using single and compound keywords as they are written exactly in the thesaurus.</p> <p>Terms which include words in parentheses must be entered between quotes.</p> <p>Weighted Searching Terms with assigned major concept importance are flagged with an asterisk (*). Use an asterisk (*) to search for terms from weighted index terms. Use truncation to broaden a weighted term search.</p> <p>Entry of terms without an asterisk will retrieve both weighted and unweighted terms.</p>	<p>/IT INJECTION WELL</p> <p>/IT "POROSITY (ROCK)"</p> <p>GEOSTEERING* /IT</p> <p>GEOSTEERING+* /IT</p> <p>/IT HYDRAULIC MOTOR</p>
Main Heading	/MH	<p>The Main Heading field contains the one descriptor that most accurately describes document content. The MH also appears in the Index Term field with a trailing asterisk.</p> <p>Search using single and compound keywords as they are written exactly in the thesaurus.</p>	<p>GEOSTEERING /MH</p> <p>/MH RESERVOIR CHARACTERISTIC</p>

The Petroleum Abstracts Thesaurus is available from the database producer.

Author, Source and Date

Search by	Index	Search Hints	Examples
Article author(s) or Patent inventor(s)	/AU (or /IN)	Search by the last name of the author(s) or inventor(s) only or by the last name followed by the initial(s) of the first name(s), without punctuation. If the initial is the letter D, P, S or W, enter it between quotes. With the NBR, MEM and GET commands, use the /AUN index.	/AU FULLER /AU FULLER J /AU RAJAN "S"
Organizational Source	/OS (or /AF)	The OS field is present in documents from 1984 forward, and contains the affiliation(s) of the authors at the time the material was written. Inventors were added to this field in 1986. Search by single terms (operators) or by phrases (implied adjacency). Use truncation. To display the content of this index, enter NBR /OSN.	/OS CAMCO DRILLING GROUP LTD /OS KANSAS UNIV+
Source of the document	/SO	This field contains the bibliographic citation of the original document, including serial title, volume, issue, publication year, pagination and number of references (this number is included in the SO field from 1986 forward; prior to that, references are noted in the AB field). Journal names are abbreviated. Search by single terms (operators) or by phrases (implied adjacency). Use truncation. For patent records, this field contains publication number/date/country, application date (and number if no priority is claimed), priority number/date/country and reference of publication bulletin.	/SO MS THESIS 1993 /SO THESIS AND 1993 /SO LAWRENCE AND KS /SO UNIV+ AND THESIS AND 1993
Journal Title	/JT	Derived from the source document. - the document type written out in full, use unlimited truncation (+) to retrieve all relevant results. Use NBR and select from the list	/JT OILFIELD REV+ NBR /JT GEOLOGICAL
Conference Title	/CONF	Derived from the source document. Search by: - the document type written out in full, use unlimited truncation (+) to retrieve all relevant results. - Use NBR and select from the list	/CONF TRIASSIC CHRON+ NBR /CONF SPE
SPE Report number	/SR	Search by the number.	/SR 38664
ISSN and ISBN numbers	/NU	Search by the number, with or without the ISSN or ISBN prefix. This information is available from 1979 forward.	/NU ISSN 04194217 04194217 /NU
Publication Year of the article or patent	/PY (or /DP)	Search by publication year in the format YY or YYYY. Use numeric operators: =, <, <=, >, >=.	PY=1997 PY>=1997

Reference Profile

Search by	Index	Search Hints	Examples
Publication Language of the original document	/LA (or /XE)	Search by : - English name of the language, - ISO three-letter code, - the NON-ENGLISH or the XE code to select all non-English documents	ENGLISH /LA /LA ENG /LA XE /LA NON-ENGLISH
Document Type	/DT	This field is available in documents from 1974 on, except for patents where the field is present from 1965 on. Search by: - the document type written out in full, use unlimited truncation (+) to retrieve all relevant results. - Use NBR and select from the list	THESIS+ /DT /DT PATENT+ NBR /DT MAP
Category Code	/CC (or /BH)	This field indicates the section of the printed <i>Petroleum Abstracts</i> bulletin that contains the record. Search by keywords or keyphrases (see the list on page 13). Keywords which contain parentheses or special characters such as , and & must be entered between quotes. Use the NBR command to easily view and select terms from the CC field.	GEOLOGY /CC /CC RELATED PATENT /CC "DRILLING (WELL)" NBR /CC PIPELINING

Index Specific To Patent Documents - Publication Number

Search by	Index	Search Hints	Examples
Patent publication Number	/PN (or /PC, /PK)	<p>Search by:</p> <ul style="list-style-type: none"> the publication number in the format PCNNNNNNNN. PC=ICIREPAT Patent Country designation NNNNNNN= seven-digit number, the first 2 digits may represent the year (YYNNNNN). the publication country the patent status <p>If the number has less than seven digits, leading hyphens are used to fill the spaces.</p>	<p>/PN US5678643</p> <p>/PN EP-770760 /PN MX—69196</p> <p>/PN US</p> <p>/PN A3</p>
Publication Date	/PD	<p>Search by the publication date in the format:</p> <p>YYYY YYYY-MM YYYY-MM-DD</p> <p>Use numeric operators: =, <, <=, >, >=.</p>	<p>PD>=1997</p> <p>PD=1997-05-02</p> <p>PD=1997-05:1998-06</p>
Crossfile Searching	/XPN	<p>To simplify crossfile searching with other patent databases, this field permits the extraction (MEM) of publication numbers in order to use them as search terms (*MEM).</p>	<p>MEM /XPN</p> <p>*MEM /XPN</p>

International Patent Classifications

International Patent Classification	/IC	<p>Search by the IPC code in the format :</p> <p>ANNA-NNN/NN (full code) ANNA-NNN (group) ANNA (sub-class) A=alphabetic character N=numeric character</p> <p>For searching by class (ANN), use limited truncation.</p>	<p>/IC E21B-007/06 /IC E21B-007 /IC E21B</p> <p>/IC E21?</p>
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Index Specific To Patent Documents - Application Number

Search by	Index	Search Hints	Examples
Application Information	/AP	<p>This field contains the date of the patent application, the application number in TULSA format, the application number in Questel.Orbit format (between parentheses in the record).</p> <p>If the patent has a priority, only the date appears in the AP field.</p> <p>Search by:</p> <ul style="list-style-type: none"> ● the application date in the format: YYYY YYYYMM YYYYMMDD Numeric operators are not authorized. ● the application number in TULSA format, PC NNNNNN PC=Patent Country code NNNNNN=six-digit number. ● the application number in Questel.Orbit format, YYYYPC-NNNNNN YYYY=year, 4 characters PC=Patent Country code NNNNNN=six-digit number ● the application country 	<p>/AP 1996 /AP 199610 /AP 19961011</p> <p>/AP US 544723</p> <p>/AP 1995US-544723</p> <p>/AP US</p>
Application Date	/APD	<p>Search by the application date in the format: YYYY YYYY-MM YYYY-MM-DD</p> <p>Use numeric operators: =, <, <=, >, >=.</p>	<p>APD>=1996</p> <p>APD=1996-10-11</p> <p>APD=1996:1999</p>

Index Specific To Patent Documents - Priority Number

Search by	Index	Search Hints	Examples
Priority Information	/PR	<p>This field contains the date of priority, the priority number in TULSA format, the priority number in Questel.Orbit format.</p> <p>Search by:</p> <ul style="list-style-type: none"> ● the priority date in the format: YYYY YYYYMM YYYYMMDD Numeric operators are not authorized. ● the priority number in TULSA format, PC NNNNNNN PC=Patent Country code NNNNNNN=six-digit number which can include commas and/or slashes. ● the priority number in Questel.Orbit format, YYYYPC-NNNNNN. YYYY=year, 4 characters PC=Patent Country code NNNNNN=priority number ● the priority country 	<p>1995/PR</p> <p>/PR GB 9,521,972</p> <p>/PR US 60/024,420</p> <p>/PR 1195GB-021972</p> <p>/PR GB</p>
Priority Date	/PRD	<p>Search by the priority date in the format: YYYY-MM-DD YYYY-MM YYYY</p> <p>Use numeric operators: = ; < ; <= ; > ; >=.</p>	<p>PRD=1995-10-26 PRD >=1995-10 PRD <=1970</p>

Other Indexes

Search by	Index	Search Hints	Examples
Accession Number	/AN (or /NO)	Search by the number that corresponds to the " <i>Petroleum Abstracts</i> " bulletin abstract number.	654371 /AN
Entry Year of the record in the database	/EY	Search by year in the format: YY or YYYY. Use numeric operators: =, <, <=, >, >=.	EY=1998 EY>=1997 EY<1997
Update Code	/UP	Search by the printed " <i>Petroleum Abstracts</i> " bulletin issue number, in the format: YYYY-WW. YYYY=year WW=week number	/UP 1998-30
Cross Reference	/XR	This field is used to retrieve information from later portions of TULSA that has been related to earlier portions of the file. To find the record corresponding to a number present in the XR field, extract this number with the MEM command and use it as a search term in the AN field by the *MEM super-term.	MEM /XR *MEM /AN

Document Display

File Formats

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SC	AN	TI														
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MAX	AN	TI	AU	OS	SO	SR	NU	LA	DT	PN	PD	AP	PR	IC	IT	
	MH	CC	AB	PY	XR											
ABST	AN	TI	AU	OS	SO	SR	PN	PR	NU	LA	AB					
SCPL	AN	TI	AU	PY												
PLUS	AN	TI	AU	OS	SO	SR	NU	LA	DT	PN	PD	AP	PR	IC		
	MH	CC	PY	XR												
FULL	AN	TI	AU	OS	SO	SR	NU	LA	DT	PN	PD	AP	PR	IC	IT	
	MH	CC	AB	PY	XR											
FU	AN	TI	AU	OS	SO	SR	NU	LA	DT	PN	PD	AP	PR	IC	IT	
	MH	CC	AB	PY	XR											
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	MH	CC	AB	PY	XR											

* The display of the AB field and the use of the ABST format are restricted to TULSA subscribers and are not available in the TULSANS database.

. Fields EY (Entry Year) UP (Update Code) JT (Journal Title) and CONF (Conference Title) are not included in a display format. To display them separately, enter PRT EY UP JT CONF or PRT MAX PLUS EY UP JT CONF.

. Fields APD (Patent Application Date) and PRD (Patent Priority Date) are respectively included in the fields AP and PR. To display them separately, enter PRT APD, PRT PRD or PRT MAX PLUS APD, PRT MAX PLUS PRD.

List of Fields

All these fields may be used with the PRT, BR and =YES commands.

AB	Abstract (=EA)
AN	Accession Number (=NO)
AP	Patent Application Information
APD	Application Date of the patent
APX	Application Year and Priority Country
AU	Author(s) or inventor(s) (=IN)
AUN	Author Bound Phrase
CC	Category Code (=BH)
CONF	Conference Title
DT	Document Type
EY	Entry Year of the record in the database
IC	International Patent Classification
IT	Index Terms
IW	Index Words
JT	Journal Title
LA	Publication language of the original document (=XE)
MH	Main Heading
NU	ISSN or ISBN numbers
OS	Organizational Source (=AF)
OSN	Organizational Source (Bound Phrase)
PD	Publication Date of the patent
PN	Publication Number of the patent (=PC, PK)
PR	Patent Priority Information
PRD	Priority Date of the patent
PY	Publication Year (=DP)
SO	Source of the document
SR	SPE Report number
TI	Title (=ET)
UP	Update code - weekly
UP4	Update code - monthly
XPN	Patent publication number for crossfile searching
XR	Cross Reference

List of document types: /DT

ABSTRACT ONLY
BOOK (A)
BOOK (A) ABSTRACT ONLY
GOVERNMENT REPORT
GOVERNMENT REPORTABSTRACT ONLY
MAP (A)
MAP (A) ABSTRACT ONLY
MEETING PAPER ABSTRACT
MEETING PAPER ABSTRACTABSTRACT ONLY
MEETING PAPER TEXT
MEETING PAPER TEXTABSTRACT ONLY
MEETING PAPER VISUAL (A)
MEETING PAPER VISUAL (A)ABSTRACT ONLY
NEWS
NEWS ABSTRACT ONLY
PATENT (A)
PATENT (A) ABSTRACT ONLY
REVIEW
REVIEW ABSTRACT ONLY
STANDARD (A)
STANDARD (A) ABSTRACT ONLY
THESIS (A)
THESIS (A) ABSTRACT ONLY

List of sections: /CC

ALT FUELS & ENERGY SOURCES
BUSINESS & ECONOMICS
DRILLING (WELL) (C)
ECOLOGY & POLLUTION
GEOCHEMISTRY (C)
GEOLOGY (C)
GEOPHYSICS (C)
HEALTH, SAFETY & ENVIRON
MINERAL COMMODITIES (M)
PIPELINING, SHIP & STORAGE
PRODUCING OIL & GAS
RELATED LITERATURE
RELATED PATENT
RESERVOIR ENG & REC METHOD
SCIENCE & ENGINEERING
SUPPLEMENTAL TECHNOLOGY
WELL COMPL SERV & WORKOVER
WELL LOGGING & SURVEYING

Current Awareness SDIs

It is possible to setup SDI (Current Awareness) profiles in the TULSA database by using the SDI command after the search strategy has been created in the database. The created SDI profiles will be automatically run against each new update to the database or you may choose to receive the results on a monthly basis and the results will be sent via either postal mail or email (if specified).

Syntax:

SDI <SDI NAME>;SURV UP Weekly updates
SDI <SDI NAME>; SURV UP4 Monthly updates

Example: SDI PANEL EMAIL;SURV UP

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