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STN Database Summary Sheet

TULSA (TULSA: Petroleum Abstracts for subscribers) contains bibliographic citations to literature on the oil and gas exploration and production industry, including geology, geochemistry, geophysics, drilling, well logging, etc. The database corresponds to Petroleum Abstracts.

The records contain bibliographic information, an abstract, indexing terms, chemical names, and CAS Registry Numbers.

Subject Coverage

- Alternate fuels and energy sources
- Drilling
- Ecology and pollution
- Geochemistry
- Geology
- Geophysics
- Mineral commodities
- Petroleum exploration, production, and development
- Pipelining and storage
- Production of oil and gas
- Reservoir engineering and recovery methods
- Supplemental technology
- Well completion and services
- Well logging

Sources

Petroleum Abstracts, which references:

- Journals
- Patents
- Theses
- Monographs
- Conferences
- Government Reports

File Data

- 1965 to the present
- More than 922,000 records (7/08)
- Updated weekly
- Automatic current-awareness searches (SDIs) are run weekly (default) and monthly

User Aids

- Online helps (HELP DIRECTORY lists the help messages available)
- STNGUIDE

Database Producer

Petroleum Abstracts
The University of Tulsa
600 S. College
Harwell 101
Tulsa, OK 74104-3189
USA

Phone: 800-247-8678 (US and Canada)
918-631-2296 (Outside US and Canada)

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URL: <http://www.pa.utulsa.edu/>

In North America

CAS
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P.O. Box 3012
Columbus, Ohio 43210-0012 U.S.A.

CAS Customer Care:

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614-447-3700 (worldwide)
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Internet: www.cas.org

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In Japan

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International Chemical Information)
STN Japan
Nakai Building
6-25-4 Honkomagome, Bunkyo-ku
Tokyo 113-0021, Japan
Phone: +81-3-5978-3601 (Technical Service)
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Internet: www.jaici.or.jp

TULSA

Search and Display Field Codes

The fields that allow left truncation in this file (/BI, /AB, /TI) are indicated by an asterisk (*).

Search Field Name	Search Code	Search Examples	Display Codes
Basic Index * (contains single words from the title (TI), abstract (AB), chemical name (CN), controlled term (CT), and subject heading (SH) fields, as well as CAS Registry Numbers)	None (or /BI)	S RESCUE S OFFSHORE INSTALLATION# S SODIUM (L) SULFATE S 64-19-7 S 51-92-3Q S ?STRUCT?	AB, CT, RN, SH, TI
Abstract	/AB	S COST/AB S ?SHORE?/AB S (?SHORE?(S)?STRUCT?)/AB	AB
Accession Number	/AN	S 2006:9998/AN S 1998:10004/AN	AN
Application Country (code and text)	/AC	S FR/AC S GERMANY/AC	AI
Application Date (1)	/AD	S GB/AC AND 20050601-20060531/AD	AI
Application Number (2)	/AP	S GB 1994-9426255/AP S 1994GB-9426255/AP	AI
Application Year (1)	/AY	S AY>=2003	AI
Author (includes inventor)	/AU	S LINDSEY J?/AU	AU
Chemical Name	/CN	S 1,2-PROPANEDIOL/CN	RN
Classification Code (3)	/CC	S WELL SURVEYING/CC	CC
Controlled Term (4) (includes major terms and subject headings)	/CT	S TAX/CT S SEISMIC ENERGY+BT/CT	CT, SH
Controlled Word (contains single words from the controlled term (CT) and subject heading (SH) fields)	/CW	S *FAULT PATTERN/CT S SURFACT?/CW S CRITICAL MICELLE/CW	CT, SH
Corporate Source (3) (includes patent assignee)	/CS	S SERV? EQUIP?/CS	CS
Cross reference	/CR	S 100086/CR	CR
Document Number (Petroleum Abstracts accession number)	/DN	S 273659/DN	DN
Document Type (code and text)	/DT (or /TC)	S L1 AND P/DT S L1 AND PATENT/DT	DT
Entry Date (1)	/ED (or /UP)	S 20000100-20000300/ED	ED
Field Availability	/FA	S AB/FA AND L5	Not displayed
International Patent Classifications (1,4)	/IPC	S A01B/IPC	IPC
International Patent Classification (includes ICM and ICS) (5)	/IC	S P16J/IC S P16J015/IC S P16J015-10/IC	IC
International Patent Classification, Main (5)	/ICM	S H05K007/ICM	ICM
International Patent Classification, Secondary	/ICS	S F01B031/ICS	ICS
International Standard (Document) Number (contains ISBN and ISSN)	/ISN	S 3-936418-04-7/ISN S 0920-4105/ISN	ISN, SO
Inventor	/IN	S IRVINE R L/IN	AU, IN
Journal Title	/JT	S J PETROL SCI ENG/JT	JT, SO

Search and Display Field Codes (cont'd)

Search Field Name	Search Code	Search Examples	Display Codes
Language (code and text)	/LA	S DE/LA	LA
Meeting Title	/MT	S (ALTERNAT? ENERGY AND MIAMI)/MT	MT, SO
Number of Report	/NR	S SPE-10006/NR	NR, SO
Patent Assignee (3)	/PA	S PECHORA RES/PA	CS, PA
Patent Country (code and text)	/PC	S GB/PC	PI
Patent Kind Code	/PK	S USB1/PK	PI
Patent Number (2)	/PN	S EP100099/PN	PI
Priority Application Country (code and text)	/PRC	S PORTUGAL/PRC	PRAI
Priority Application Date (1)	/PRD	S PT/PRC	
Priority Application Number (2)	/PRN	S 19951210/PRD	PRAI
Priority Application Year (2)	/PRY	S 1976PL-0192149/PRN	PRAI
Publication Date (1)	/PD	S 2001-2005/PRY	PRAI
		S 20040111/PD	PI, SO
		S PD>=19990600	
		S OCT 31,1999-DEC 31, 1999/PD	
Publication Year (1)	/PY	S PY>=2004	PY
Source (contains journal title, collation information (volume, issue, pages, number of references), number of report, publication date, meeting information (title, location, date), publisher, publisher location, ISSN, ISBN, patent information, application information, priority information, information patent classifications, pages, and claims)	/SO	S (PETROL AND V 48)/SO	SO
		S (SPE AND MTG)/SO AND 1995-1996/PY	
Subject Heading	/SH	S STRATIGRAPHIC MAPPING/SH	SH
Title *	/TI	S WELL CEMENT/TI	TI
		S ?DRILL?/TI	

(1) Numeric search field that may be searched with numeric operators or ranges.

(2) Either STN format or Derwent format may be used.

(3) Search with implied (S) proximity is available in this field.

(4) There is an online thesaurus associated with this field.

(5) Available only for pre-2006 patent records.

Super Search Fields

Enter a super search code to execute a search in one or more fields that may contain the desired information.

Super search fields facilitate crossfile and multifile searching. EXPAND may not be used with super search fields.

Use EXPAND with the individual field codes instead.

Search Field Name	Search Code	Fields Searched	Search Examples	Display Codes
Patent Application and Patent Priority Number (1)	/APPS	/AP, /PRN	S US1970-25003/APPS	AI, PRAI
Patent Countries	/PCS	/PC	S DE/PCS	PI
Patent Numbers (1)	/PATS	/PN	S EP536950/PATS	PI

(1) Either STN format or Derwent format may be used.

TULSA

Limiting Search Codes (6)

Search results may be restricted to the following search area in the TULSA File. Only an L-number for an answer set created in TULSA may be limited.

Search Field Name	Search Code	Search Examples
Major descriptor	/MAJOR (1)	S L1/MAJ

(1) The code may be abbreviated to the first three letters.

Controlled Term (/CT) Thesaurus

There is an exploration and production and geographic term thesaurus available in the Controlled Term (/CT) field. All Relationship Codes can be used with either the SEARCH or EXPAND command.

Relationship Code	Content	Example
ALL	All associated terms (BT, SELF, NOTE, USE, USE+, UF, UF+, NT, RT)	E PIPELINE+ALL/CT
BT	Broader Terms (BT, SELF, NOTE)	S COLNETT BASIN+BT/CT
HIE	Hierarchy terms (all Broader and Narrower Terms) (BT, SELF, NOTE, NT)	E SUBATOMIC PARTICLE+HIE/CT
KT	Keyword Terms (Multiword phrases containing the term) (SELF, KT)	E POWER+KT/CT
NOTE	Notes (SELF, NOTE)	E RESERVOIR BOUNDARY+NOTE/CT
NT	Narrower Terms (SELF, NOTE, NT)	E DEPOSIT+NT/CT
PFT	All Preferred and Forbidden Terms (SELF, UF, UF+, USE, USE+)	E LAND TOPOLOGY+PFT/CT
RT	Related Terms (SELF, RT)	E CLAY CHEMISTRY+RT/CT
STD	All Broader, Narrower, and Related Terms (BT, SELF, NOTE, NT, RT)	E FUEL+STD/CT
UF	Used For terms (Forbidden Terms) (SELF, UF, UF+)	E ABANDONMENT+UF/CT
USE	Use terms (Preferred Terms) (SELF, USE, USE+)	E CROSS FRACTURE+USE/CT

International Patent Classification (/IPC) Thesaurus

The following Relationship Codes may be used with the EXPAND and SEARCH commands in the /IPC field:

Relationship Code	Description	Example
ALL	All associated terms	E A63B0023-04+ALL/IPC
ADV	Advanced level IPC codes	E A63B0023-00+ADV/IPC
BRO	Complete class	E B015+BRO/IPC
BT	Broader term	E B01B0001-02+BT/IPC
COR	Core level IPC codes	E B01B0001-02+CORE/IPC
ED	Complete title of the SELF term and IPC manual edition	
HIE	Hierarchy terms (all broader and narrower terms)	E A61Q0001-00+HIE/IPC
INDEX	Complete title of the SELF term	E E21D+INDEX/IPC
KT	Keyword term	E BOREHOLIST+KT/IPC
NEXT	Next classification	E 21D+NEXT/IPC
NT	Narrower term	E E21B0043-00+NT/IPC
PREV	Previous classification	E G01N0001-08+PREV/IPC
RT	Related term	E E10M0113-10+RT/IPC
TI	Complete title of the SELF term and Broader Terms	E C10M0113-10+TI/IPC

DISPLAY and PRINT Formats

Any combination of display formats listed below may be used to display or print answers. Multiple codes must be separated by spaces or commas, e.g., D L1 1-5 TI AU, D L1 1-5 TI, AU. The fields are displayed in the order requested.

Hit-term highlighting is available in all fields. Highlighting must be on during SEARCH in order to use the HIT, KWIC, and OCC formats.

Format	Content	Examples
AB AI (AP) AN (1) AU CC (1) CR CS CT (1) DN DT (TC) ED IC (IPC) (1) ICM (1) ICS (1) IPC IN ISN (2) JT (2) LA MT (2) NR (2) PA PI (PN, PATS) PRAI (PRN) PY (2) RN (CN) (1) SH (1) SO TI (1) UP	Abstract Application Information Accession Number Author or Inventor Classification Code Cross reference Corporate Source or Patent Assignee Controlled Term (includes SH) Document Number (Petroleum Abstracts accession number) Document Type Entry Date International Patent Classification (ICM and ICS) IPC, Main IPC, Secondary International Patent Classification Inventor International Standard (Document) Number (ISBN or ISSN) Journal Title Language Meeting Title Number of Report Patent Assignee Patent Information Priority Information Publication Year CAS Registry Number and Chemical Name Subject Heading Source Title Update Date	D L4 1-4 AB D L1 3 AI PI D AN 1,3-5 D 1-3,7,8 AU D CC 1- D CR 1-5 D L3 CS 3 D 1 3 6,8 CT D DN D DT D ED D L8 IC 1-3 D 1,4 ICM D ICS D IPC D IN PA D ISN 3 4 D JT D TI LA D L3 MT D NR D L3 4 PA PI D PI D PRAI D PY D RN D SH D SO D TI 1-10 D UP
ABS ALL APPS CBIB BIB DALL IALL IBIB IND (1) SCAN (1,3) TRIAL (TRI, SAM) (1) XML	AB AN, DN, CR, TI, AU, IN, CS, PA, PI, AI, PRAI, SO, DT, LA, ED, AB, IC (ICM, ICS), IPC, CC, SH, CT, RN AI, PRAI AN, DN, compressed bibliographic information AN, DN, CR, TI, AU, IN, CS, PA, PI, AI, PRAI, SO, DT, LA, ED (BIB is the default) ALL, delimited for post-processing ALL, indented with text labels BIB, indented with text labels IC (ICM, ICS), IPC, CC, SH, CT, RN TI, IC (ICM, ICS), IPC, CC, SH, CT, RN (random display without answer numbers) DN, TI, IC (ICM, ICS), IPC, CC, SH, CT, RN XML version of ALL format	D ABS D 1-5 ALL D APPS 5-10 D CBIB AB D D DALL D IALL D IBIB D 10 20 IND D SCAN D TRIAL TOTAL D XML
HIT KWIC OCC (1)	Fields containing hit terms Hit terms plus 20 words on either side (Key-Word-In-Context) Number of occurrences of hit terms and fields in which they occur	D HIT D KWIC NOH D OCC

(1) No online display fee for this format.

(2) Custom display only

(3) SCAN must be specified on the command line, i.e., D SCAN or DISPLAY SCAN.

TULSA**SELECT, ANALYZE, and SORT Fields**

The SELECT command is used to create E-numbers containing terms taken from the specified field in an answer set.

The ANALYZE command is used to create an L-number containing terms taken from the specified field in an answer set.

The SORT command is used to rearrange the search results in either alphabetic or numeric order of the specified field(s).

Field Name	Field Code	ANALYZE/ SELECT (1)	SORT
Abstract	AB	Y	N
Accession Number	AN	Y	N
Application Country	AC	Y (3)	Y
Application Date	AD	Y	Y
Application Information	AI	Y (4)	Y
Application Number	AP	Y	Y
Application and Priority Numbers	APPS	Y (5)	N
Application Year	AY	Y (3)	Y
Author/Inventor	AU	Y	Y
CAS Registry Number	RN	Y (2)	N
CAS Registry Number and Chemical Name	CHEM	Y (2)	N
Chemical Name	CN	Y	N
	NAME	Y (2)	N
Citation	CIT	Y (3,6)	N
Classification Code	CC	Y	Y
Controlled Term	CT	Y	N
Corporate Source/Patent Assignee	CS	Y	Y
Cross Reference	CR	Y (7)	N
Document Number (Petroleum Abstracts accession number)	DN	Y	Y
Document Type	DT	Y	Y
Entry Date	ED	Y	N
International Patent Classification, Main and Secondary	IC	Y	Y
International Patent Classifications	IPC	Y	Y
International Standard Book Number	ISBN	N	Y
International Standard (Document) Number	ISN	Y (8)	N
International Standard Serial Number	ISSN	N	Y
IPC, Main	ICM	Y	Y
IPC, Secondary	ICS	Y	Y
Journal Title	JT	Y	Y
Language	LA	Y	Y
Meeting Title	MT	Y	Y
Number of Report	NR	Y	Y
Occurrence Count of Hit Terms	OCC	N	Y
Patent Country	PC	Y (3)	Y
	PCS	Y (3)	N
Patent Information	PI	Y (9)	Y
Patent Kind Code	PK	Y	Y
Patent Number	PN	Y	Y
	PATS	Y	N
Priority Application Country	PRC	Y (3)	Y
Priority Application Date	PRD	Y	Y
Priority Application Information	PRAI	Y (10)	Y

SELECT, ANALYZE, and SORT Fields (cont'd)

Field Name	Field Code	ANALYZE/ SELECT (1)	SORT
Priority Application Number	PRN	Y	Y
Priority Application Year	PRY	Y (3)	Y
Publication Date	PD	Y	Y
Publication Year	PY	Y	Y
Source	SO	Y (11)	N
Subject Heading	SH	Y	N
Title	TI	Y (default)	Y
Treatment Code	TC	Y	Y
Update Date	UP	Y	N

- (1) HIT may be used to restrict terms extracted to terms that match the search expression used to create the answer set, e.g., SEL HIT CT.
(2) Appends /BI to the terms created by SELECT.
(3) SELECT HIT and ANALYZE HIT are not valid with this field.
(4) Selects or analyzes Application Number with /AP appended to the terms created by SELECT.
(5) Selects or analyzes AP and PRN with /APPS appended to the terms created by SELECT.
(6) Extracts first author, publication year, and first page with a truncation symbol appended and with /RE appended to the terms created by SELECT.
(7) Appends /DN to the terms created by SELECT.
(8) Selects or analyzes ISSN or ISBN with /ISN appended to the terms created by SELECT.
(9) Selects or analyzes patent number with /PN appended to the terms created by SELECT.
(10) Selects or analyzes priority application number with /PRN appended to the terms created by SELECT.
(11) Selects or analyzes ISBN or ISSN with /SO appended to the terms created by SELECT.

Sample Records**DISPLAY BIB**

```
AN 2000:10700 TULSA
DN 727304
TI MEASURING THE VELOCITY OF FLOW OF A FLUID STREAM BY DETERMINATION OF
THE PHASE LAG OF THE FREQUENCY SPECTRUM OF RECEIVED PULSES
IN BEAUDUCEL, C; LEPAGE, T
PA INST FRANCAIS DU PETROLE
PI GB 2339907 A 20000209
AI GB 19990723
PRAI 1998FR-9809541 19980724
SO GR BRIT 2,339,907A, P 2/9/2000, F 7/23/1999, PR FR 7/24/1998 (APPL
9,809,541) (G01P-005/24; G01F-001/66) (24 PP; 11 CLAIMS)
DT Patent
LA English
ED Entered STN: 10 May 2000
Last updated on STN: 10 May 2000
```

TULSA**DISPLAY IALL**

ACCESSION NUMBER: 2006:11479 TULSA
 DOCUMENT NUMBER: 892721
 TITLE: DOWNHOLE MEASUREMENT SYSTEM AND METHOD
 INVENTOR: BROCKMAN, M W; CHO, B W; GAMBIER, P; RIOUFOL, E
 PATENT ASSIGNEE: SCHLUMBERGER CANADA LTD
 PATENT INFO.: CA 2512443 A1 20060122
 APPLN. INFO.: CA 20050719
 PRIORITY INFO.: US 2004-711400 20040916
 PRIORITY INFO.: US 2004-711396 20040916
 PRIORITY INFO.: US 2004-522023 20040803
 PRIORITY INFO.: US 2004-521934 20040722
 SOURCE: Can. 2,512,443A1, p. 1/22/2006, f. 7/19/2005, pr. U.S.
 7/22/2004 (Appl. 60/521,934), U.S. 8/3/2004 (Appl.
 60/522,023), U.S. 9/16/2004 (Appl. 711,396) and U.S.
 9/16/2004 (Appl. 711,400) (E21B-047/06). (22 pp; 23 claims)
 DOCUMENT TYPE: Patent
 LANGUAGE: English
 ENTRY DATE: Entered STN: 26 Apr 2006
 Last Updated on STN: 26 Apr 2006

ABSTRACT:

Various apparatuses, systems and methods are provided for measuring well functions. One aspect relates to a measurement method comprising measuring a characteristic of a supply, measuring the characteristic in or near a downhole tool and spaced from the supply measurement, and comparing the measurements (e.g., using a surface or downhole controller, computer, or circuitry). Another aspect relates to a measurement system, comprising a first sensor adapted to measure a characteristic of a supply, a second sensor adapted to measure the characteristic in or near a downhole tool, the second sensor measuring the characteristic at a point that is spaced from the supply measurement. Other aspects relate to verifying downhole functions using the measurements, improving feedback, providing instrumentation to downhole equipment without incorporating the gauges within the equipment itself and other methods, systems, and apparatuses. Further aspects relate to placement of gauges in or near packers as well as related systems and methods.

INT. PATENT CLASS.:

IPC: E21B0047-06

CLASSIFICATION: WELL COMPL SERV & WORKOVER
 SUBJECT HEADING: *PERMANENT DOWNHOLE SENSOR
 CONTROLLED TERM: *DETECTOR; *GAGE; *GAGING; *INSTRUMENT; *INSTRUMENTATION;
 *MEASURING; *PACKER SETTING; *PRESSURE GAGE; *REMOTE
 SENSOR; *SETTING TOOL; *SYSTEM (ASSEMBLAGE); *TESTING; (P)
 CANADA; ACOUSTIC RECEIVER; ACOUSTICS; CALIBRATION;
 CHARACTERISTIC; CHARACTERIZATION; CHART; CLASSIFICATION;
 COMPARISON; COMPOSITION; CONTROL; DATA; ELECTRICAL
 EQUIPMENT; ELECTRICAL PROPERTY; ELECTRONIC EQUIPMENT;
 ENGINEERING DRAWING; ENGLISH; FEEDBACK; FLOW MEASURING;
 FLOW RATE; FLOWMETER; GAS LIQUID RATIO; GAS WATER RATIO;
 GRAVEL PACKING; HYDRAULIC FLUID; HYDRAULIC PRESSURE;
 HYDRAULIC SYSTEM; LUBRICANT/INDUSTRIAL OIL; METERING;
 MULTIPHASE FLOWMETER; MULTIPLE COMPLETION; PACKER; PATENT;
 PHYSICAL PROPERTY; POSITIONING (WELL); PRESSURE; PRESSURE
 TRANSDUCER; RATE; RECEIVER (ELECTRONIC); REFERENCE DATUM;
 REMOTE SENSING; RESISTIVITY; RESISTIVITY EQUIPMENT; SAND;
 SAND CONTROL; SAND SCREEN; SCHLUMBERGER CANADA LTD; SCREEN;
 SEDIMENT (GEOLOGY); STANDARDIZATION; STRAIN GAGE;
 TELEMETERING; TEMPERATURE MEASURING; TEMPERATURE PROBE;
 THERMOMETER; TRANSDUCER; VALIDATION; WATER OIL RATIO; WELL
 COMPL SERV & WORKOVER; WELL

DISPLAY IND

IC ICM C08B0037-00
ICS C12P0019-04; C12R0001-38
IPC C08B0037; C12P0019-04; C12R0001-38
CC SUPPLEMENTAL TECHNOLOGY
SH *POLYSACCHARIDE
CT *ADDITIVE; *BIOPOLYMER; *COMPOUND; *LIQUID SOLID SEPARATION;
*PHYSICAL SEPARATION; *POLYMER; *PURIFYING; *SUGAR; *SURFACE ACTIVE
AGENT; *THICKENER; AEROBIC BACTERIA; ALGINATE; ANION; BACTERIA;
BACTERIAL ECOLOGY; BUSINESS OPERATION; CENTRIFUGING; CHEMICAL
PROCESS; CHLOROHYDROCARBON; CONTROL; DERIVATIVE (CHEMICAL); DEXTRAN;
ECOLOGY; ENHANCED RECOVERY; FERMENTATION; FLOODING (FORMATION);
FLUOROHYDROCARBON; FRACTURING FLUID; FRACTURING FLUID ADDITIVE;
GRAVEL PACKING; GRAVITATIONAL SEPARATION; HALOHYDROCARBON; INST
FRANCAIS DU PETROLE; ION; MANUFACTURING; MIXING; NATURAL RESIN;
NONIONIC; PHYSICAL PROPERTY; POLYMER WATERFLOODING; PRECIPITATION;
PRODUCT; SAND CONTROL; SCLEROGLUCAN; SODIUM DODECYL SULFATE;
SOLVENT; SULFATE; SURFACE ACTIVITY; SURFACE PROPERTY; WATER
THICKENING; WATER TREATING; WATERFLOODING; WELL COMPLETION; WELL
COMPLETION FLUID; WELL STIMULATION; WELL WORKOVER; XANTHAN GUM
RN 151-21-3 (SODIUM DODECYL SULFATE)
9004-54-0 (DEXTRAN)
11138-66-2 (XANTHAN GUM)
39464-87-4 (SCLEROGLUCAN)

DISPLAY SCAN

TI WELL TESTING IN HETEROGENEOUS AND STRATIFIED RESERVOIRS
CC RESERVOIR ENG. & REC METHODS
SH *PRODUCTION TEST
CT *COMMINGLED PRODUCTION; *FORMATION DAMAGE; *GEOLOGIC STRUCTURE;
*HETEROGENEOUS RESERVOIR; *INTERFERENCE TEST; *PETROLEUM; *PRESSURE
TRANSIENT ANALYS; *RESERVOIR; *SKIN EFFECT (WELL); *STRATIFIED
RESERVOIR; *TESTING; *WELL TESTING; BOREHOLE STORAGE; BOUNDARY;
BOUNDARY CONDITION; CHART; DATA; DERIVATIVE (MATHEMATICS); DRAINAGE
RADIUS; EQUATION; FLOW RATE; FLUID FLOW; FLUID FLOW EQUATION;
FRACTIONAL FLOW EQUATION; FUNCTION (MATHEMATICS); GRAPH; GRAPHICAL
REPRESENTATION; LAYER; LIMIT; MATHEMATICAL ANALYSIS; MATHEMATICAL
MODEL; MATHEMATICS; MODEL; MULTIPLE LAYER MODEL; PERMEABILITY;
PERMEABILITY (ROCK); PHYSICAL PROPERTY; PRESSURE; PRESSURE BUILDUP
ANALYSIS; RADIUS; RATE; RESERVOIR BOUNDARY; RESERVOIR LIMIT TEST;
RESERVOIR MODEL; STRATA; TABLE (DATA); TYPE CURVE; UNSTEADY STATE
FLOW; WELL PRESSURE
RN 8002-05-9 (PETROLEUM)