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## STN Database Summary Sheet

**TULSA2 (Petroleum Abstracts for non-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, 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 not available

### 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)  
Fax: 918-599-9361  
E-mail: [question@TUred.pa.utulsa.edu](mailto:question@TUred.pa.utulsa.edu)  
URL: <http://www.pa.utulsa.edu/>

**In North America**  
CAS  
STN North America  
P.O. Box 3012  
Columbus, Ohio 43210-0012 U.S.A.

CAS Customer Care:  
Phone: 800-753-4227 (North America)  
614-447-3700 (worldwide)  
Fax: 614-447-3751  
E-mail: [help@cas.org](mailto:help@cas.org)  
Internet: [www.cas.org](http://www.cas.org)

**In Europe**  
FIZ Karlsruhe  
STN Europe  
P.O. Box 2465  
76012 Karlsruhe  
Germany  
Phone: +49-7247-808-555  
Fax: +49-7247-808-259  
E-mail: [helpdesk@fiz-karlsruhe.de](mailto:helpdesk@fiz-karlsruhe.de)  
Internet: [www.stn-international.de](http://www.stn-international.de)

**In Japan**  
JAICI (Japan Association for  
International Chemical Information)  
STN Japan  
Nakai Building  
6-25-4 Honkomagome, Bunkyo-ku  
Tokyo 113-0021, Japan  
Phone: +81-3-5978-3601 (Technical Service)  
+81-3-5978-3621 (Customer Service)  
Fax: +81-3-5978-3600  
E-mail: [support@jaici.or.jp](mailto:support@jaici.or.jp) (Technical Service)  
[customer@jaici.or.jp](mailto:customer@jaici.or.jp) (Customer Service)  
Internet: [www.jaici.or.jp](http://www.jaici.or.jp)

**TULSA2****Search and Display Field Codes**

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

Search Field Name	Search Code	Search Examples	Display Codes
Basic Index * (contains single words from the title (TI), 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?	CT, RN, SH, TI
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 20050601-20051231/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	S L1 AND P/DT	DT
Entry Date (1)	(or /TC) /ED (or /UP)	S L1 AND PATENT/DT S 20000100-20000300/ED	ED
Field Availability	/FA	S AB/FA AND L5	Not displayed
International Patent Classifications	/IPC	S A01B/IPC	IPC
International Patent Classification (includes ICM and ICS) (5)	/IC	S P16J/IC S P16J015/IC S P16J015-10/IC S H05K007/ICM	IC
International Patent Classification, Main (5)	/ICM		ICM
International Patent Classification, Secondary (5)	/ICS	S F01B031/ICS	ICS
International Standard (Document) Number (contains ISBN and ISSN)	/ISN	S 3-936418-04-17/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
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

## Search and Display Field Codes (cont'd)

Search Field Name	Search Code	Search Examples	Display Codes
Patent Assignee (3) Patent Country (code and text) Patent Kind Code Patent Number (2) Priority Application Country (code and text) Priority Application Date (1) Priority Application Number (2) Priority Application Year (2) Publication Date (1)	/PA /PC /PK /PN /PRC  /PRD /PRN /PRY /PD	S PECHORA RES/PA S GB/PC S USB1/PK S EP100099/PN S PORTUGAL/PRC S PT/PRC S 19951210/PRD S 1976PL-0192149/PRN S 2001-2005/PRY S 20040111/PD S PD>=19990600 S OCT 31,1999-DEC 31, 1999/PD S PY>=2004	CS, PA PI PI PI PRAI  PRAI PRAI PRAI PI, SO
Publication Year (1) Source (contains journal title, collation information number of report, publication, date, meeting information, publisher, publisher location, ISSN, ISBN, patent information, application information, priority information, international patent classifications, pages, and claims)	/PY /SO	S (PETROL AND V 48)/SO S (SPE AND MTG)/SO AND 1995-1996/PY	PY SO
Subject Heading Title *	/SH /TI	S STRATIGRAPHIC MAPPING/SH S WELL CEMENT/TI	SH 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) Patent Countries Patent Numbers (1)	/APPS  /PCS /PATS	/AP, /PRN  /PC /PN	S US1970-25003/APPS  S DE/PCS S EP536950/PATS	AI, PRAI  PI PI

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

## TULSA2

### 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
AI (AP) AN (1) AU CC (1) CR CS CT (1) DN DT (TC) ED IC (1) ICM (1) ICS (1) IN IPC 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	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 Inventor International Patent Classification 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 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 IN PA D IPC 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
ALL APPS CBIB BIB DALL IALL IBIB IND (1) SCAN (1,3) TRIAL (TRI, SAM) (1) XML	AN, DN, CR, TI, AU, IN, CS, PA, PI, AI, PRAI, SO, DT, LA, ED, 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 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 (KeyWord-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.

**TULSA2****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
Accession Number	AN	Y	N
Application Country	AC	Y (2)	Y
Application Date	AD	Y	Y
Application Information	AI	Y (3)	Y
Application Number	AP	Y	Y
Application and Priority Numbers	APPS	Y (4)	N
Application Year	AY	Y (2)	Y
Author/Inventor	AU	Y	Y
CAS Registry Number	RN	Y (5)	N
CAS Registry Number and Chemical Name	CHEM	Y (5)	N
Chemical Name	CN	Y	N
	NAME	Y (5)	N
Citation	CIT	Y (2,6)	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	N
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 (2)	Y
	PCS	Y (2)	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 (2)	Y
Priority Application Date	PRD	Y	Y
Priority Application Information	PRAI	Y (10)	Y
Priority Application Number	PRN	Y	Y
Priority Application Year	PRY	Y (2)	Y
Publication Date	PD	Y	Y
Publication Year	PY	Y	Y

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

Field Name	Field Code	ANALYZE/ SELECT (1)	SORT
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) SELECT HIT and ANALYZE HIT are not valid with this field.
- (3) Selects or analyzes Application Number with /AP appended to the terms created by SELECT.
- (4) Selects or analyzes AP and PRN with /APPS appended to the terms created by SELECT.
- (5) Appends /BI 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.

**TULSA2****Sample Records****DISPLAY BIB**

AN 2000:10700 TULSA2  
 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  
 ENTRY DATE: Entered STN: 26 Apr 2006  
 Last Updated on STN: 26 Apr 2006

**DISPLAY IALL**

ACCESSION NUMBER: 2006:11479 TULSA2  
 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  
 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 COMPLETION; WELL LOGGING; WELL  
 TOOL  
 CAS REGISTRY NO.: 73560-97-1 (SERV)

## DISPLAY IND

IC ICM C08B037-00  
ICS C12P019-04; C12R001-38  
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)  
25777-71-3 (NATURAL RESIN)  
39464-87-4 (SCLEROGLUCAN)

## DISPLAY SCAN

TI WELL TESTING IN HETEROGENEOUS AND STRATIFIED RESERVOIRS  
CC RESERVOIR ENG. & RECOVERY 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)