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- Petroleum exploration geology, geophysics, and geochemistry
- Development drilling and well completion,

servicing, and workovers

- Petroleum production, recovery, methods, and transportation
- Supplemental technology, statistics, environmental/energy-related topics, and alternate fuels and energy sources

## TIPS

### SEARCH the SRLA or SRPA number

to find related records (e.g., SRLA# 869,569):

S AA=869569

### LIMIT searches to patents in a specific subject area:

S SH=ECOLOGY & POLLUTION/PATENT

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to find related terms:

E (SOUND WAVE)

## DIALOG FILE DATA

Inclusive Dates: 1965 to present (File 87)

Selected records from 2003-2005  
(File 807)

Update Frequency: Closed (File 807)

Weekly (Files 87,986,987)

File Size:

More than 884,000 records as of June 2007 (File 87)

15,169 records (File 807)

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## SAMPLE BIBLIOGRAPHIC RECORD

DIALOG(R)File 987:TULSA (Petroleum Abs)  
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**AA=** 0001839394 PETROLEUM ABSTRACTS NO.: 885875  
**/TI** SPECIAL REPORT - INDIA'S CHANGING ENERGY BALANCE: NATURAL GAS, LNG TO  
 PLAY SUPPORT ROLE IN MEETING INDIA'S INCREASING ENERGY NEEDS  
**AU=** ELLSWORTH, C L; VIKAS, S  
**CS=** SCI APPLICATIONS INT CORP  
**JN=,SO=** OIL & GAS JOURNAL v.104, no.4, pp.18-23, 1/23/2006. (ISSN 0030-1388;  
 Color; Over 10 refs)  
**PY=** 2006  
**SN=** ISSN: 0030-1388  
**LA=** LANGUAGE: ENGLISH  
**DT=** DOCUMENT TYPE: JOURNAL ARTICLE; J  
**RT=** RECORD TYPE: ABSTRACT  
**/AB** India's energy balance is fundamentally changing due to adoption of  
 market-based economics, rapid economic growth, and a shift from traditional  
 biomass energy sources. Natural gas and LNG show promise as energy sources  
 providing a clean, efficient solution to India's energy demand. There are  
 challenges to increasing the supply of natural gas in India, including lack  
 of foreign investment and necessary infrastructure, remnants of nonmarket  
 pricing policies, and difficulties in negotiations with foreign suppliers  
 and transit countries, such as Bangladesh, Iran, and Pakistan. To address  
 these challenges, India encourages competitive pricing, provides incentives  
 for foreign companies to explore through the New Exploration Licensing  
 Policy (NELP), and relaxed regulation. Initiatives, in concert with higher  
 world prices for natural gas and renewed negotiations with foreign  
 suppliers, have stimulated activity. Progress includes the development of a  
 spot market, with contracts traded on the National Commodity & Derivative  
 Exchange Ltd. (NCDEX); interest among foreign companies to build LNG  
 terminals; increasing domestic exploration; development of pipeline  
 infrastructure; and a move toward investment in gas-fired power plants.  
 Continued access to natural gas and LNG supplies is critical to India's  
 sustained energy growth. This article discusses the energy market outlook  
 for India, natural gas pricing evolution and status, and challenges for  
 domestic and imported gas supplies, including LNG.

**/DE, /MH, /MH=** PRIMARY DESCRIPTOR: INDIA  
**/DE** MAJOR DESCRIPTORS: ADMINISTRATION; ASIA; BUSINESS OPERATION; DOMESTIC  
 POLICY; ECONOMIC MODEL; ENERGY POLICY; EURASIA; GAS INDUSTRY; GOVERNMENT;  
 LIQUEFIED NATURAL GAS; MODEL; NATURAL GAS; PETROLEUM; RESEARCH; STUDY;  
 TREND STUDY  
**/DE** MINOR DESCRIPTORS: AFRICA; ALTERNATE ENERGY; ARABIAN SEA; BOMBAY HIGH OIL  
 FIELD; BURMA; CENTRAL AMERICA; CHART; COAL; COAL RESERVE; COMMODITY FUTURES;  
 COMPANY; CONCESSION; CONSORTIUM; CONTRACT; CRUDE OIL; CUBA; DATA; DEMAND;  
 ECONOMIC FACTOR; EGYPT; ELECTRIC POWER; ELECTRICITY; ENERGY; ENERGY SOURCE;  
 ENGLISH; EXPLORATION; FINANCING; FUEL; GAS FIELD; GAS PRODUCING; GAS  
 RESERVE; GASEOUS FUEL; GRAPH; GREATER ANTILLES; IMPORT; INCENTIVE; INDIA  
 OIL & NAT GAS CORP; INDIAN OCEAN; INVESTMENT; JOINT VENTURE; LEGAL  
 CONSIDERATION; MANAGEMENT; MARINE TRANSPORTATION; NUCLEAR POWER; OIL AND  
 GAS FIELDS; OIL FIELD; ORGANIZATION; PERSIAN GULF; PETROLEUM INDUSTRY;  
 PLANNING; POWER; PRICE; PRICE CONTROL; PRODUCING; PRODUCTION STATISTICS;  
 QATAR; RESERVE; RUSSIA; SEAS AND OCEANS; SHIP; STATISTICS (DATA); STRATEGY;  
 SUPPLEMENTAL TECHNOLOGY; SUPPLY; TABLE (DATA); TANKER; TRANSPORTATION;  
 TRANSPORTATION TERMINAL; VIETNAM; WEST INDIES; WORLD WIDE  
**/SH, /SH=** SUBJECT HEADING: SUPPLEMENTAL TECHNOLOGY

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## SAMPLE PATENT RECORD

DIALOG(R)File 987:TULSA (Petroleum Abs)  
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**AA=** 0001843679 PETROLEUM ABSTRACTS NO.: 881590  
**/TI** METHOD OF DETERMINING PLANAR EVENTS FROM BOREHOLE OR CORE IMAGES  
**AU=** AUTHOR (INVENTOR): ETCHECOPAR, A; MATHIEU, G; ONDA, H; WANG, Y  
**PA=** PATENT ASSIGNEE: SCHLUMBERGER HOLDINGS LTD; SCHLUMBERGER SERV PETROL;  
SCHLUMBERGER TECHNOL BV

**PN=,PC=** PATENT INFORMATION: Europe. 1,569,163A1, p. 8/31/2005, f. 2/26/2004  
**AN=,AD=** (Appl. 04,290,532) (G06K-009/46; G01V-011/00). (12 pp; 11 claims)

**PY=** PATENT (NUMBER KIND, DATE): EU 1569163 A1, 20050831  
**AY=** APPLICATION (NUMBER, DATE): EU 04290532, 20040226  
**IC=** 2005

**LA=** PUBLICATION YEAR: 2005  
**DT=** IPC CODE: G01V-011/00; G06K-009/46  
**RT=** LANGUAGE: ENGLISH  
**/AB** DOCUMENT TYPE: PATENT; P  
RECORD TYPE: ABSTRACT

A user-guided, dip picking method from electrical borehole images is described using Hough Transform. It includes defining a top and bottom reference curve, applying the Hough Transform to the borehole image limited by the top and bottom reference dips so that the Hough Transform space is restrained in the neighborhood of the reference dips. A 1D average trace representing the extrema of the 3D Hough parameter space for each depth is then computed, and the extrema exceeding a given threshold are searched in this 1D trace. The position in the 3D Hough space of an extremum represents a dip event.

**/DE,/MH,MH=** PRIMARY DESCRIPTOR: BOREHOLE IMAGING  
**/DE** MAJOR DESCRIPTORS: CHARACTERIZATION; CLASSIFICATION; DATA; DIP; DIP LOGGING; ELECTRIC LOGGING; IMAGING; INTERPRETATION; REFERENCE DATUM; RESERVOIR CHARACTERIZATION; WELL LOG INTERPRETATION; WELL LOGGING

**/DE** MINOR DESCRIPTORS: (P) EUROPE; ALGORITHM; ANALYTICAL METHOD; APPROXIMATION; BOREHOLE; CHART; COMPUTING; CORE ANALYSIS; DATA ANALYSIS; DATA PROCESSING; DATA STORAGE; DATABASE; DETECTOR; ENGINEERING DRAWING; ENGLISH; FOCUSED CURRENT LOGGING; FORMATION EVALUATION; FORMATION FACE; FUNCTION (MATHEMATICS); GRAPH; GRAPHICAL REPRESENTATION; INDUCTION LOGGING; INSTRUMENT; MATHEMATICAL ANALYSIS; MATHEMATICAL MODEL; MATHEMATICS; MODEL; PATENT; REMOTE SENSING; REMOTE SENSOR; RESISTIVITY LOGGING; SCHLUMBERGER HOLDINGS LTD; SCHLUMBERGER SERV PETROL; SCHLUMBERGER TECHNOL BV; SIMULATION; SINUSOID; SONDE; TESTING; WELL LOG; WELL LOGGING & SURVEYING; WELL LOGGING DATA; WELL LOGGING EQUIPMENT

**/SH,SH=** SUBJECT HEADING: WELL LOGGING & SURVEYING

BASIC INDEX

SEARCH SUFFIX	DISPLAY CODE	FIELD NAME	INDEXING	SELECT EXAMPLES
—	—	All Basic Index Fields	Word	S HPHT(W)CAPABILITY
/AB	AB	Abstract <sup>1</sup>	Word	S DAMAGING(W)STORM?/AB
/DE	DE	Descriptor <sup>2</sup>	Phrase	S ENVIRONMENTAL IMPACT/DE
/MH	MH	Main Heading (Primary Descriptor) <sup>2,3</sup>	Word	S EMERGENCY/MH
/SH	SH	Subject Heading <sup>3</sup>	Word	S UNUSUAL DRILLING CONDITION/MH
/TI	TI	Title	Word	S ECOLOGY(1W)POLLUTION/SH
				S DESTRUCTIVE(W)HURRICANE?/TI

<sup>1</sup> Abstracts are available only in the Subscriber Files 986 and 987.

<sup>3</sup> Searchable in the Basic Index and in the Additional Indexes.

<sup>2</sup> Also /DE\*, /DF, /DF\*.

ADDITIONAL INDEXES

SEARCH PREFIX	DISPLAY CODE	FIELD NAME	INDEXING	SELECT EXAMPLES
AA=	AA	Petroleum Abstracts Accession Number	Phrase	S AA=888004
AC=	AC	Patent Application Country <sup>4</sup>	Phrase	S AC=EU
AC=	PR	Priority Application Country <sup>4</sup>	Phrase	S AC=GB
AD=	AD	Patent Application Date <sup>4</sup>	Phrase	S AD=20040226
AD=	PR	Priority Application Date <sup>4</sup>	Phrase	S AD=20040226
AN=	AN	Patent Application Number <sup>4</sup>	Phrase	S AN=EU 1569163
AN=	PR	Priority Application Number <sup>4</sup>	Phrase	S AN=EU 1569163
AU=	AU	Author	Phrase	S AU=WHITE, A
AY=	AY	Application Year	Phrase	S AY=2005
—	AZ	DIALOG Accession Number		
BN=	BN	International Standard Book Number (ISBN)	Phrase	S BN=0-7918-3737-8
CS=	CS	Corporate Source	Word & Phrase	S CS=(SCI(W)APPLICATIONS(W)INT)
				S CS=SCI APPLICATIONS INT?
CT=	CT	Conference Title	Word	S CT=(2ND(W)PETROMIN(F)CONF?)
DT=	DT	Document Type	Phrase	S DT=JOURNAL
IC=	IC	International Patent Class Code <sup>5</sup>	Phrase	S IC=G01V-011/00
—	II	Digital Object Identifier		
JN=	JN	Journal Name <sup>6</sup>	Phrase	S JN=OIL & GAS JOURNAL
LA=	LA	Language	Phrase	S LA=ENGLISH
MH=	MH	Main Heading (Primary Descriptor) <sup>2,3</sup>	Phrase	S MH=INDIA
PA=	PA	Patent Assignee <sup>4</sup>	Word & Phrase	S PA=(SCHLUMBERGER(W)HOLDINGS)
				S PA=SCHLUMBERGER HOLDINGS?
PC=	PC	Patent Country <sup>4</sup>	Phrase	S PC=US
PD=	PD	Patent Publication Date <sup>4</sup>	Phrase	S PD=20060123
—	PI	Patent Information <sup>4</sup>		
PN=	PN	Patent Number <sup>4</sup>	Phrase	S PN=US 1569163
PY=	PY	Publication Year	Phrase	S PY=2006
RN=	RN	Report Number (SPE Number)	Phrase	S RN=96441
				S RN=SPE-96441
				S RN=SPE96441
RT=	RT	Record Type	Phrase	S RT=ABSTRACT
SH=	SH	Subject Heading <sup>3</sup>	Phrase	S SH=SUPPLEMENTAL TECHNOLOGY
SN=	SN	International Standard Serial Number (ISSN)	Phrase	S SN=0003-1388
				S SN=10031388
SO=	SO	Source Information <sup>7</sup>	Word	S SO=(SPE(W)OFFSHORE(W)EUROPE)
UD=	—	Update	Phrase	S UD=9999
XR=	XR	Related patent or article record <sup>8</sup>	Phrase	S XR=585568

<sup>4</sup> In addition to individual display codes AC, AD, AN, PA, PC, PD, PN, and PR, complete patent information is displayable with PI.

<sup>5</sup> Available since 1989.

<sup>6</sup> Available since 1979. For complete retrieval, use SO=.

<sup>7</sup> Search and Display include Journal Name, Volume, Issue, Pagination, Publication Date, Conference Title, Patent Information, and Miscellaneous Source Information.

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<b>SORT</b>	<b>AU, CS, CT, JN, PN, PY, TI</b>	SORT S1/ALL/PY,D SORT S2/ALL/TI
<b>RANK</b>	All phrase- and numeric-indexed fields in the Additional Indexes can be ranked. Other RANK codes include: DE	RANK AU S3
<b>MAP</b>	AN, PN, PY, XR	MAP PN TEMP S4
<b>RD, ID</b>	Remove duplicates (RD) or identify duplicates (ID,IDO).	RD S5
<b>CURRENT</b>	Search only the most recent year plus one (CURRENT1) to five (CURRENT5) years.	B 87 CURRENT2

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5	--	Full Record (Abstract available only in Files 986, 987)
6	Short	Title and Publication Year
7	Long	Full Record except indexing (Abstract available only in Files 986, 987)
8	Free	Title, Indexing, and Publication Year
9	Full	Full Record (Abstract available only in Files 986, 987)
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<b>TAG</b>	Output can be displayed with tags identifying each display field.	TYPE S1/5/1-10 TAG PRINT S2/9/ALL TAG DISPLAY S3/7/ALL TAG
<b>DIRECT RECORD ACCESS</b>	If the accession number of a specific record is known, it can be used to display the record directly.	TYPE 00722372/5 DISPLAY 00722326/4 PRINT 00301964/9

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