

Search history

Search 1: PD<20131218 and IC=(E21B43/* OR E21B23/* OR E21B47/*) (Results 90258)
Search 2: 1 AND (FT = method* OR procedur* OR system* OR device*) (Results 72920)
Search 3: 1 AND (FT = (method* OR procedur* OR system* OR device*) NEAR (well* OR bore*)) (Results 35927)
Search 4: 3 AND (FT = fracture# NEAR characteri*) (Results 498)
Search 5: 4 AND (FT = inject*) (Results 407)
Search 6: 5 AND (FT = pressure# NEAR (measure# OR detect* OR calculat*)) (Results 156)
Search 7: 6 AND (FT = pressure# NEAR sens*) (Results 87)
Search 8: 7 AND (FT = (induce# OR introduce#) NEAR fractur*) (Results 42)

Title: ACTIVE SEISMIC MONITORING OF FRACTURING OPERATIONS

Abstract: A method for managing a fracturing operation. In one implementation, the method may include positioning a seismic source and at least one seismic receiver near a hydrocarbon reservoir; pumping a fracturing fluid into a well bore of the hydrocarbon reservoir; performing a seismic survey with the seismic source and the at least one seismic receiver during the fracturing operation; and identifying locations of the fracturing fluid within subsurface formations in which the hydrocarbon reservoir is located.

Classifications:

International (IPC 8-9): E21B43/26 E21B47/00 E21B47/008
E21B47/06 E21B47/10 E21B47/12 E21B49/00 G01V1/00 G01V1/30
G01V1/34 G01V1/40 G01V1/42 G01V1/44 G01V1/50 G01V3/26

G01V3/30 G06F19/00 (Advanced/Invention);

E21B47/10 (Advanced/Non-invention);

E21B43/25 E21B47/00 (Core/Invention)

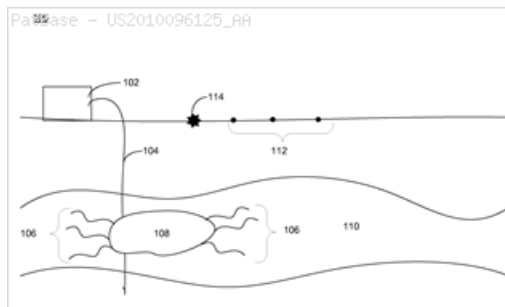
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European: E21B43/26 E21B47/10D E21B49/00P G01V1/00B

US: 1/1 166/250.01 166/250.1 166/250.100P 166/254.1

166/254.100P 166/308.1 166/308.100P 166/308.100S 367/25

367/25S 702/11 702/11S 702/7 702/7S



Family:

Publication number	Publication date	Application number	Application date
CA2683183 AA	20100422	CA20092683183	20091016
EP2180140 A2	20100428	EP20090173773	20091022
EP2180140 A3	20110810	EP20090173773	20091022
MX2009011422 A1	20100518	MX20090011422	20091022
US2010096125 AA	20100422	US20080256285	20081022
US2011214869 AA	20110908	US20110112780	20110520
US2011272147 AA	20111110	US20110112834	20110520
US2013000893 AA	20130103	US20120540460	20120702
US2014027111 AA	20140130	US20130041686	20130930
US7967069 BB	20110628	US20080256285	20081022
US8210262 BB	20120703	US20110112780	20110520
US8938363 BB	20150120	US20110112834	20110520
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Priority:

US20080193278 20080818 US20080256285 20081022 US20110112834 20110520
US20110112780 20110520 US20120540460 20120702 US20130041686 20130930

Probable Assignee: WESTERNGECO L L C

Assignee(s): (std): BEASLEY CRAIG J ; BUSH IAIN ; GECO TECHNOLOGY BV ; SCHLUMBERGER CA LTD ; WESTERNGECO LLC ; PEYRET OLIVIER

Assignee(s): WESTERNGECO L L C ; SCHLUMBERGER CANADA LIMITED ; GECO TECHNOLOGY B V

Inventor(s): (std): BEASLEY CRAIG J ; BUSH IAIN ; PEYRET OLIVIER

Inventor(s): CRAIG J BEASLEY

Agent(s): SUCKLING ANDREW MICHAEL; WESTERNGECO LLC KEVIN MCENANEY; GARY; ABIMBOLA

Designated states: AL AT BA BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LI LT LU LV MC MK MT NL NO PL PT RO RS SE SI SK SM TR

Title: MICROHYDRAULIC FRACTURING WITH DOWNHOLE ACOUSTIC MEASUREMENT

Abstract: Methods and related systems are described for measuring acoustic signals in a borehole during a fracturing operation. The system includes a downhole toolstring designed and adapted for deployment in a borehole formed within a subterranean rock formation. A downhole rock fracturing tool opens and propagates a fracture in the subterranean rock formation. Dipole and/or quadrupole acoustic sources transmit acoustic energy into the subterranean rock formation. A receiver array measures acoustic energy traveling through the subterranean rock formation before, during and after the fracture induction. Geophones mounted on extendable arms can be used to measure shear wave acoustic energy travelling in the rock formation. The toolstring can be constructed such that the sources and receivers straddle the fracture zone during the fracturing. Alternatively, the sources or the receivers can co-located axially with the fracture zone, or the toolstring can be repositioned following fracturing such that the fracture zone is between the acoustic sources and receivers.

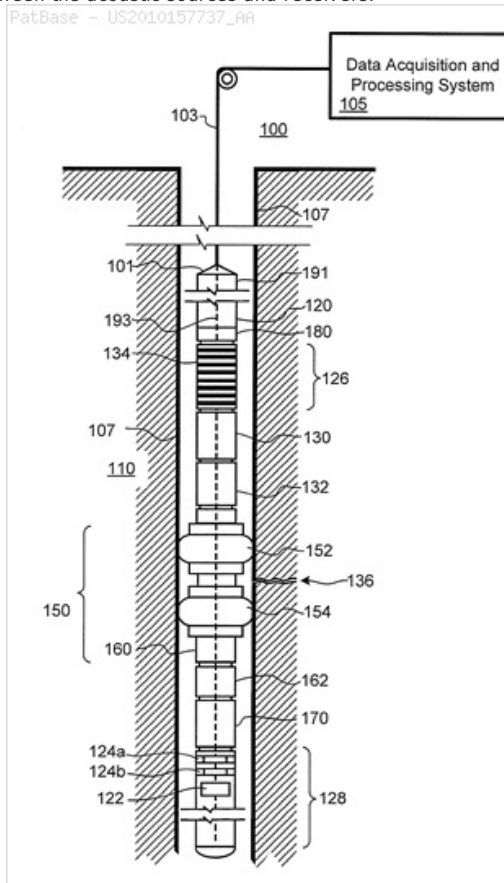
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G01S1/00 G01V1/00 (Core/Invention)

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European: E21B33/124 E21B43/26 E21B47/10D E21B49/00M
E21B49/08 G01V1/44 G01V1/46

US: 1/1 367/117 367/117P 367/31 367/31S

**Family:**

Publication number	Publication date	Application number	Application date
BRPI0810900 A2	20160719	BR2008PI10900	20081222
BRPI1001603 A2	20131224	BR2010PI01603	20100428
US2010157737 AA	20100624	US20090430914	20090428
US9477002 BB	20161025	US20090430914	20090428
WO09086279 A2	20090709	WO2008US87970	20081222
WO09086279 A3	20101216	WO2008US87970	20081222

Priority:

US20070016161P 20071221 WO2008US87970 20081222 US20090430914 20090428

Probable Assignee: SCHLUMBERGER TECHNOLOGY CORP

Assignee(s): (std): BRENNAN WILLIAM E ; D ANGELO RALPH ; FARAHANI ALIREZA ; HARRISON CHRISTOPHER ; HAUSOT ANDREAS ; LATIFZAI AHMAD ; SCHLUMBERGER CA LTD ; LIANG KENNETH K ; PRAD RES AND DEV LTD ; MULLINS OLIVER C ; MILLER DOUGLAS E ; SCHLUMBERGER SERVICES PETROL ; MACKAY BRUCE A ; PRIOUL ROMAIN CHARLES ANDRE ; ZIMMERMAN THOMAS HARVEY ; WINKLER KENNETH ; SCHLUMBERGER TECHNOLOGY BV ; SHLUMBERGER HOLDINGS LTD ; SCHLUMBERGER TECHNOLOGY CORP ; WANG CANYUN

Assignee(s): SHLUMBERGER HOLDINGS LIMITED ; SERVICES PETROLIERS SCHLUMBERGER ; SCHLUMBERGER CANADA LTD ; SCHLUMBERGER TECHNOLOGY B V ; PRAD RESEARCH AND DEVELOPMENT LTD ; SCHLUMBERGER CANADA LIMITED

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Agent(s): SCHLUMBERGER KK; DARYL R; JODY; MCALEENAN JAMES

Designated states: AE AG AL AM AO AT AU AZ BA BB BE BF BG BH BJ BR BW BY BZ CA CF CG CH CI CM CN CO CR CU CY CZ DE DK DM DO DZ EC EE EG ES FI FR GA GB GD GE GH GM GN GQ GR GT GW HN HR HU ID IE IL IN IS IT JP KE KG KM KN KP KR KZ LA LC LK LR LS LT LU LV LY MA MC MD ME MG MK ML MN MR MT MW MX MY MZ NA NE NG NI NL NO NZ OM PG PH PL PT RO RS RU SC SD SE SG SI SK SL SM SN ST SV SY

SZ TD TG TJ TM TN TR TT TZ UA UG US UZ VC VN ZA ZM ZW

Title: GENERATING PROBABILISTIC INFORMATION ON SUBTERRANEAN FRACTURES

Abstract: Systems, methods, and instructions encoded in a computer-readable medium can perform operations related to generating probabilistic information on **characteristics** of natural **fractures** of a subterranean formation. Fitted fracture models are generated based on microseismic event data for a subterranean region. The fitted fracture models represent estimated locations of fractures in the subterranean region. A distribution of fracture parameter values is generated based on the fitted fracture models. The distribution includes fracture parameter values and a probability associated with each fracture parameter value. Generating the fitted fracture models may include, for example, fitting a plane, a line or another type of equation to the measured locations of microseismic events. In some implementations, an **injection** treatment may be simulated and/or designed based on the probability distribution.

Classifications:

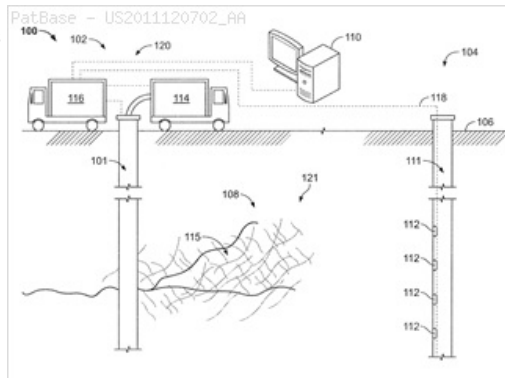
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International (IPC 1-7): E21B43/26

CPC: G01V1/282 E21B43/26

European: E21B43/26 G01V1/28B

US: 1/1 166/177.5 166/177.500S 166/250.1 166/250.100P 166/270 166/308.1 700/283 700/283S 702/11 702/16 702/16S 702/181 702/181S 703/10 703/10S 703/2 703/2S 703/6 703/6S

**Family:**

Publication number	Publication date	Application number	Application date
AR079148 AA	20111228	AR2010P104343	20101124
AU2010322931 AA	20110603	AU20100322931	20101125
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US2011120702 AA	20110526	US20100837854	20100716
US2011120706 AA	20110526	US20090626039	20091125
US8437962 BB	20130507	US20100837854	20100716
US9176245 BB	20151103	US20090626039	20091125
WO11064543 A2	20110603	WO2010GB02176	20101125
WO11064543 A3	20111215	WO2010GB02176	20101125

Priority:

US20090626039 20091125 US20100837854 20100716 WO2010GB02176 20101125

Probable Assignee: HALLIBURTON CO

Assignee(s): (std): CRAIG DAVID P ; CURTIS PHILIP ANTHONY ; HALLIBURTON CO ; HALLIBURTON ENERGY SERV INC ; HALLIBURTON ENERGY SERVICES INC

Inventor(s): (std): CRAIG DAVID P

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Designated states: AE AG AL AM AO AT AU AZ BA BB BE BF BG BH BJ BR BW BY BZ CA CF CG CH CI CL CM CN CO CR CU CY CZ DE DK DM DO DZ EC EE EG ES FI FR GA GB GD GE GH GM GN GQ GR GT GW HN HR HU ID IE IL IN IS IT JP KE KG KM KN KP KR KZ LA LC LI LK LR LS LT LU LV LY MA MC MD ME MG MK ML MN MR MT MW MX MY MZ NA NE NG NI NL NO NZ OM PE PG PH PL PT RO RS RU SC SD SE SG SI SK SL SM SN ST SV SY SZ TD TG TH TJ TM TN TR TT TZ UA UG US UZ VC VN ZA ZM ZW

Title: PROBABILISTIC EARTH MODEL FOR SUBTERRANEAN FRACTURE SIMULATION

Abstract: Systems, methods, and instructions encoded in a computer-readable medium can perform operations related to generating a model of a subterranean formation based on a probabilistic earth model. An earth model including a probability distribution for a property of a subterranean region is received. A subterranean formation model is generated based on sampling the probability distribution for the property. The subterranean formation model includes information on boundaries of rock blocks of a formation in the subterranean region. The subterranean formation model may be used for simulating an **injection** treatment applied to the formation, for example, to predict fracture propagation in the formation. In some implementations, the subterranean formation model may be used for designing an **injection** treatment for the formation.

Classifications:

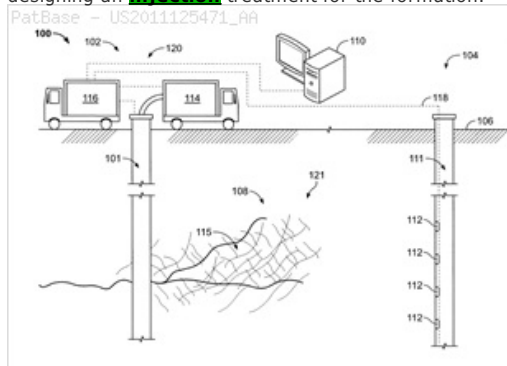
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G06F17/50 G06G7/48 (Advanced/Invention)

International (IPC 1-7): E21B43/26

CPC: E21B43/26 E21B49/00 G01V1/42

European: E21B43/26 E21B49/00 G01V1/42

US: 702/181 702/181S 703/10 703/6 703/6P

**Family:**

Publication number	Publication date	Application number	Application date
AR079147 AA	20111228	AR2010P104342	20101124
AU2010322929 AA	20110603	AU20100322929	20101125
AU2010322929 BB	20150305	AU20100322929	20101125
CA2778313 AA	20110603	CA20102778313	20101125
CA2778313 C	20150203	CA20102778313	20101125
EP2504524 A2	20121003	EP20100793280	20101125
US2011125471 AA	20110526	US20090625914	20091125
US8392165 BB	20130305	US20090625914	20091125
WO11064541 A2	20110603	WO2010GB02174	20101125
WO11064541 A3	20111215	WO2010GB02174	20101125

Priority:

US20090625914 20091125 WO2010GB02174 20101125

Probable Assignee: HALLIBURTON CO

Assignee(s): (std): CRAIG DAVID P ; CURTIS PHILIP ANTHONY ; EBERHARD MICHAEL J ; HALIBURTON ENERGY SERVICES INC ; HALLIBURTON ENERGY SERV INC

Assignee(s): HALLIBURTON CO ; HALLIBURTON ENERGY SERVICES INC

Inventor(s): (std): EBERHARD MICHAEL J ; CRAIG DAVID P

Agent(s): CALLINANS; SPRUSON AND FERGUSON; FISHER ADAMS KELLY CALLINANS; NORTON ROSE CANADA SENCRL SRL LLP; NORTON ROSE FULBRIGHT CANADA LLP SENCRL SRL; KING LAWRENCE; ROBERT A; FISH AND RICHARDSON P C; FISH AND RICHARDSON PC; COTTRILL EMILY ELIZABETH HELEN ET AL

Designated states: AE AG AL AM AO AT AU AZ BA BB BE BF BG BH BJ BR BW BY BZ CA CF CG CH CI CL CM CN CO CR CU CY CZ DE DK DM DO DZ EC EE EG ES FI FR GA GB GD GE GH GM GN GQ GR GT GW HN HR HU ID IE IL IN IS IT JP KE KG KM KN KP KR KZ LA LC LI LK LR LS LT LU LV LY MA MC MD ME MG MK ML MN MR MT MW MX MY MZ NA NE NG NI NL NO NZ OM PE PG PH PL PT RO RS RU SC SD SE SG SI SK SL SM SN ST SV SY SZ TD TG TH TJ TM TN TR TT TZ UA UG US UZ VC VN ZA ZM ZW

Title: DOWNHOLE DEPLOYABLE TOOLS FOR MEASURING TRACER CONCENTRATIONS

Abstract: Downhole deployable tools for measuring tracer concentrations are disclosed. According to one embodiment, an apparatus comprises a support cable configured to allow the apparatus to be lowered into and raised from a wellbore. A housing is attached to the support cable. The housing includes a detector window on the exterior of the housing. A detector system within the housing includes a detector that measures tracer concentrations. The detector is operably connected to the detector window to direct energy or particles from the detector window to the detector.

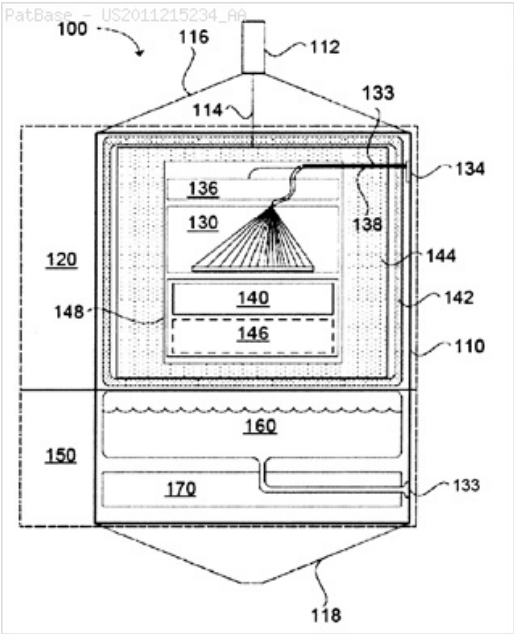
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International (IPC 8-9): E21B47/10 G01N21/64 G01V5/00 G01V5/04 G01V5/08 (Advanced/Invention)

CPC: E21B47/1015

European: E21B47/10G

US: 250/259 250/259P 250/264



Family:

Publication number	Publication date	Application number	Application date
US2011215234 AA	20110908	US20110041013	20110304
US8952319 BB	20150210	US20110041013	20110304
WO11109721 A1	20110909	WO2011US27213	20110304

Priority:

US20100310665P 20100304 US20110041013 20110304

Probable Assignee: OF UTAH RESEARCH FOUNDATION UNIV

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Inventor(s): (std): ROSE PETER E

Agent(s): THORPE NORTH AND WESTERN LLP; DUTTA SANJEET K ET AL

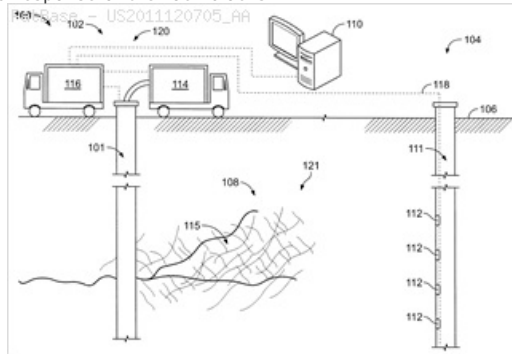
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Title: SIMULATING **INJECTION** TREATMENTS FROM MULTIPLE WELLS

Abstract: Systems, methods, and instructions encoded in a computer-readable medium can perform operations related to simulating **injection** treatments applied to a subterranean formation from multiple well bores in the subterranean formation. A subterranean formation model representing rock blocks of a subterranean formation is received. Information on multiple **injection** treatments for multiple well bores in the subterranean formation is received. The subterranean formation model and the information on the **injection** treatments is used to predict a response of each of the rock blocks to forces acting on the rock block during the **injection** treatments. The **injection** treatments may include, for example, multiple fracture treatments for simultaneous application to the subterranean formation. In some implementations, **injection** treatments may be designed for a multiple-**well bore system** based on the predicted response of the rock blocks.

Classifications:**International (IPC 8-9):** E21B33/16 E21B43/16 E21B43/22

E21B43/26 G06G7/48 (Advanced/Invention)

International (IPC 1-7): E21B43/00 E21B43/20**CPC:** E21B43/26 E21B43/16**European:** E21B43/16 E21B43/26**US:** 166/153 166/153S 166/268 166/270 166/90.1 702/6 703/10**Family:**

Publication number	Publication date	Application number	Application date
AR079144 AA	20111228	AR2010P104339	20101124
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AU2010322930 BB	20150122	AU20100322930	20101125
CA2778326 AA	20110603	CA20102778326	20101125
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EP2504522 A2	20121003	EP20100793281	20101125
US2011120705 AA	20110526	US20090625887	20091125
US2013000895 AA	20130103	US20120611310	20120912
US8886502 BB	20141111	US20090625887	20091125
WO11064542 A2	20110603	WO2010GB02175	20101125
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Priority:

US20090625887 20091125 WO2010GB02175 20101125 US20120611310 20120912

Probable Assignee: HALLIBURTON CO**Assignee(s):** (std): CURTIS PHILIP ANTHONY ; HALLIBURTON ENERGY SERV INC ; WALTERS HAROLD G ; HYDEN RONALD E**Assignee(s):** HALLIBURTON ENERGY SERVICES INC ; HALLIBURTON ENERGY SERVICES INCP.O. BOX 1431DUNCANOK73536US ; HALLIBURTON CO**Inventor(s):** (std): WALTERS HAROLD G ; HYDEN RONALD E**Inventor(s):** WALTERS HAROLD GUS ; HYDEN RONALD EUS**Agent(s):** CALLINANS; SPRUSON AND FERGUSON; FISHER ADAMS KELLY CALLINANS; NORTON ROSE CANADA SENCRL SRL LLP; NORTON ROSE FULBRIGHT CANADA LLP SENCRL SRL; KING LAWRENCE; FISH AND RICHARDSON PC; CRAIG W; COTTRILL EMILY ELIZABETH HELEN ET AL**Designated states:** AE AG AL AM AO AT AU AZ BA BB BE BF BG BH BJ BR BW BY BZ CA CF CG CH CI CL CM CN CO CR CU CY CZ DE DK DM DO DZ EC EE EG ES FI FR GA GB GD GE GH GM GN GQ GR GT GW HN HR HU ID IE IL IN IS IT JP KE KG KM KN KP KR KZ LA LC LI LK LR LS LT LU LV LY MA MC MD ME MG MK ML MN MR MT MW MX MY MZ NA NE NG NI NL NO NZ OM PE PG PH PL PT RO RS RU SC SD SE SG SI SK SL SM SN ST SV SY SZ TD TG TH TJ TM TN TR TT TZ UA UG US UZ VC VN ZA ZM ZW

Title: METHODS AND SYSTEMS FOR EVALUATING AND TREATING PREVIOUSLY-FRACTURED SUBTERRANEAN FORMATIONS

Abstract: Methods, computer programs, and systems for evaluating and treating previously-fractured subterranean formations are provided. An example method includes, for one or more of the one or more layers, determining whether there are one or more existing fractures in the layer. The method further includes, for one or more of the one or more existing fractures, measuring one or more parameters of the existing fracture and determining conductivity damage to the existing fracture, based, at least in part, on one or more of the one or more measured parameters of the existing fracture. The method further includes selecting one or more remediative actions for the existing fracture, based, at least in part, on the conductivity damage.

Classifications:

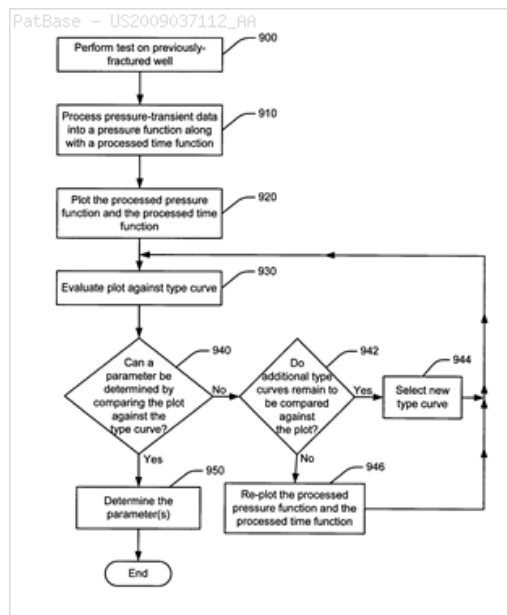
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E21B47/06 (Advanced/Non-invention);
E21B43/00 E21B43/25 E21B47/12 E21B49/00 G01V3/18
G01V9/00 (Core/Invention);
E21B47/06 (Core/Non-invention)

International (IPC 1-7): E21B43/26

CPC: E21B43/14 E21B43/26 E21B49/008

European: E21B43/14 E21B43/26 E21B49/00P

US: 166/250.01 702/11



Family:

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AR067724 AA	20091021	AR2008P103273	20080729
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AU2008281566 AA	20090205	AU20080281566	20080730
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DE602008014978 D1	20120614	DE200860014978T	20080730
EP2193255 A1	20100609	EP20080788249	20080730
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NZ582964 A	20120224	NZ20080582964	20080730
US2009037112 AA	20090205	US20070888277	20070731
US7580796 BB	20090825	US20070888277	20070731
WO09016386 A1	20090205	WO2008GB02621	20080730

Priority:

US20070888277 20070731 EP20080788249 20080730 WO2008GB02621 20080730

Probable Assignee: HALLIBURTON CO

Assignee(s): (std): ANSAH JOSEPH ; CURTIS PHILIP ANTHONY ; EAST LOYD E ; STEGENT NEIL A ; SOLIMAN MOHAMED Y ; HALLIBURTON ENERGY SERV INC

Assignee(s): HALLIBURTON ENERGY SERVICES INC DUNCAN ; HALLIBURTON CO ; HALLIBURTON ENERGY SERVICES INC

Inventor(s): (std): ANSAH JOSEPH ; EAST LOYD E ; SOLIMAN MOHAMED Y ; STEGENT NEIL A ; STEGENT NEIL ; SOLIMAN MOHAMED ; EAST LOYD

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Designated states: AE AG AL AM AO AT AU AZ BA BB BE BF BG BH BJ BR BW BY BZ CA CF CG CH CI CM CN CO CR CU CY CZ DE DK DM DO DZ EC EE EG ES FI FR GA GB GD GE GH GM GN GQ GR GT GW HN HR HU ID IE IL IN IS IT JP KE KG KM KN KP KR KZ LA LC LI LK LR LS LT LU LV LY MA MC MD ME MG MK ML MN MR MT MW MX MY MZ NA NE NG NI NL NO NZ OM PG PH PL PT RO RS RU SC SD SE SG SI SK SL SM SN ST SV SY SZ TD TG TJ TM TN TR TT TZ UA UG US UZ VC VN ZA ZM ZW

Title: METHODS FOR DETERMINING FORMATION STRENGTH OF A WELLBORE

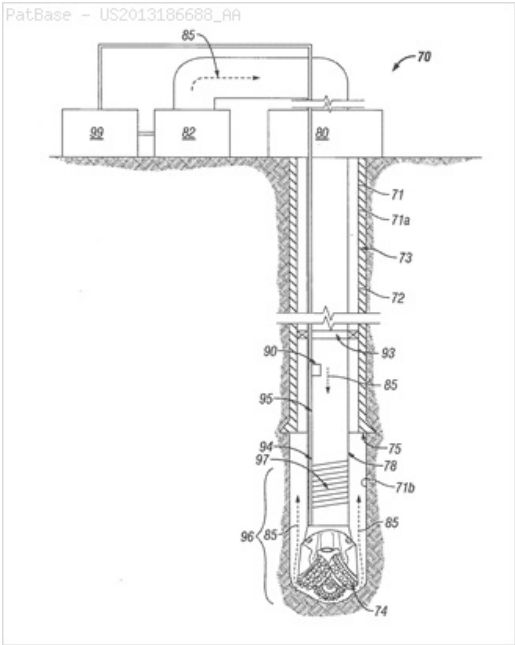
Abstract: A system and a method may determine formation strength of a **well**. The **system** and the **method** may use pressure measurements and temperature measurements to determine controlled fracture pressures before the uncontrolled fracture pressure is reached. The system and the method may use pressure measurements and temperature measurements to determine closure stresses while drilling and may use the closure stresses with core and log measurements to optimize a hydraulic stimulation program.

Classifications:

International (IPC 8-9): E21B47/06 (Advanced/Invention)

CPC: E21B47/06 E21B21/08 E21B43/26

US: 166/250.08 175/48 175/50 73/152.22



Family:

Publication number	Publication date	Application number	Application date
US2013186688 AA	20130725	US20120554649	20120720
US8899349 BB	20141202	US20120554649	20120720

Priority:

US20110510864P 20110722 US20120554649 20120720

Probable Assignee: SCHLUMBERGER TECHNOLOGY CORP

Assignee(s): (std): RASMUS JOHN C ; SCHLUMBERGER TECHNOLOGY CORP ; SUAREZ RIVERA ROBERTO ; VAYNSHTEYN VLADIMIR

Inventor(s): (std): RASMUS JOHN C ; SUAREZ RIVERA ROBERTO ; VAYNSHTEYN VLADIMIR

Agent(s): MARK D; KIMBERLY

Title: METHOD AND APPARATUS FOR A MONODIAMETER WELLBORE, MONODIAMETER CASING AND MONOBORE

Abstract: An assembly and methods are disclosed for constructing a Monowell having a monodiameter casing disposed in a monodiameter wellbore having diametric efficiency with a monobore production delivery system disposed within the monodiameter casing. An assembly for constructing a monodiameter wellbore includes a bottomhole assembly having a overgauge hole drilling member, a directional steering assembly, a measurement while drilling tool, and a logging while drilling tool; a work string attached to the bottomhole assembly and extending to the surface; drilling fluids flowing through the work string and bottomhole assembly; chemical casing casing the borehole; expandable casing disposed in the wellbore; and a sealing composition disposed between the expandable casing and the wellbore. A method for drilling a monodiameter borehole includes drilling an initial portion of the borehole with a drilling assembly having a bit, downhole motor and reamer; applying a catalyst base material to the borehole wall during drilling; back reaming the borehole as the drilling assembly is raised through the initial borehole portion; applying a set up material to the borehole wall as the borehole is back reamed; forming a chemical casing by reacting the set up material with the catalyst material; repeating the above steps by drilling additional borehole portions until the borehole is drilled; and installing a string of casing in the borehole.

Classifications:

International (IPC 8-9): C09K8/035 C09K8/04 C09K8/42 E21B17/00 E21B17/01 E21B19/16 E21B19/22 E21B29/00 E21B29/02 E21B33/13 E21B33/138 E21B33/14 E21B43/10 E21B47/00 E21B47/02 E21B47/12 E21B47/16 E21B7/00 E21B7/04 E21B7/128 E21B7/20 E21B7/26 E21B7/28 (Advanced/Invention); C09K8/42 E21B7/04 (Advanced/Non-invention); C09K8/02 E21B17/00 E21B19/00 E21B29/00 E21B33/13 E21B33/138 E21B43/02 E21B47/00 E21B47/02 E21B47/12 E21B7/00 E21B7/04 E21B7/12 E21B7/20 (Core/Invention); C09K8/42 (Core/Non-invention); E21B (Subclass/Invention)

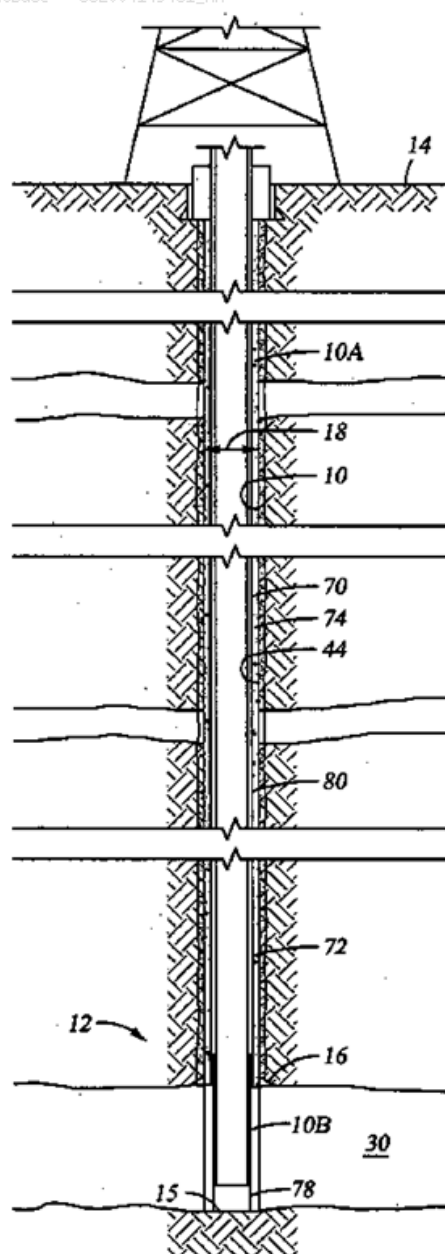
International (IPC 1-7): C09K7/00 E21B0/00 E21B17/00 E21B29/00 E21B29/02 E21B33/14 E21B43/10 E21B47/02 E21B47/12 E21B7/00 E21B7/04 E21B7/128 E21B7/137 E21B7/20 E21B7/28

CPC: C09K8/12 C09K8/34 C09K8/512 E21B33/138 C09K8/42 E21B7/20 E21B17/00 E21B29/02 E21B33/14 E21B43/10 E21B7/04 E21B41/08 E21B7/128 E21B17/01 E21B19/22 E21B43/101 E21B43/103

European: C09K8/12 C09K8/34 C09K8/42 C09K8/512 E21B17/00 E21B17/01 E21B19/22 E21B29/02 E21B33/138 E21B33/14 E21B43/10 E21B43/10A E21B43/10F E21B7/04 E21B7/128 E21B7/20

US: 166/207 166/242.1 166/242.100 166/250.01 166/254.2 166/254.200 166/277 166/292 166/295 166/380 166/382 175/171 175/22 175/45 175/50 175/57 175/61 175/64 175/65 175/72

PatBase - US2004149431_AA



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Publication number	Publication date	Application number	Application date
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Priority:

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AU20090201056 20090317	US20090486400 20090617	

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Designated states: AE AG AL AM AT AU AZ BA BB BE BF BG BJ BR BY BZ CA CF CG CH CI CM CN CO CR CU CY CZ DE DK DM DZ EC EE ES FI FR GA GB GD GE GH GM GN GQ GR GW HR HU ID IE IL IN IS IT JP KE KG KP KR KZ LC LK LR LS LT LU LV MA MC MD MG MK ML MN MR MW MX MZ NE NL NO NZ OM PH PL PT RO RU SC SD SE SG SI SK SL SN SZ TD TG TJ TM TN TR TT TZ UA UG UZ VC VN YU ZA ZM ZW