

PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1
 Stylesheet Version v1.2

EPAS ID: PAT4129483

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| SUBMISSION TYPE: | NEW ASSIGNMENT |
| NATURE OF CONVEYANCE: | ASSIGNMENT |
| CONVEYING PARTY DATA | |
| Name | Execution Date |
| HAROLD GRAYSON WALTERS | 05/27/2014 |
| RONALD GLEN DUSTERHOFT | 05/30/2014 |
| PRIYESH RANJAN | 05/27/2014 |
| KEN SMITH | 05/30/2014 |
| GLENN ROBERT MCCOLPIN | 07/02/2014 |
| RECEIVING PARTY DATA | |
| Name: | HALLIBURTON ENERGY SERVICES, INC. |
| Street Address: | 3000 N. SAM HOUSTON PARKWAY E. |
| City: | HOUSTON |
| State/Country: | TEXAS |
| Postal Code: | 77032-3219 |
| PROPERTY NUMBERS Total: 1 | |
| Property Type | Number |
| Application Number: | 15308997 |
| CORRESPONDENCE DATA | |
| Fax Number: | (972)480-8865 |
| <i>Correspondence will be sent to the e-mail address first; if that is unsuccessful, it will be sent using a fax number, if provided; if that is unsuccessful, it will be sent via US Mail.</i> | |
| Phone: | 972-480-8800 |
| Email: | docket@PJ-iplaw.com |
| Correspondent Name: | HALLIBURTON ENERGY SERVICES, INC. C/O PA |
| Address Line 1: | P.O. BOX 832570 |
| Address Line 4: | RICHARDSON, TEXAS 75083 |
| ATTORNEY DOCKET NUMBER: | 2013-082570 U1 US |
| NAME OF SUBMITTER: | GREG H. PARKER |
| SIGNATURE: | /Greg H. Parker/ |
| DATE SIGNED: | 11/04/2016 |
| Total Attachments: 6 | |
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ASSIGNMENT

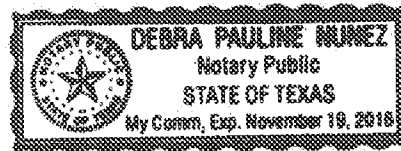
For valuable consideration, we, Glenn Robert McColpin of Katy, Texas, Harold Grayson Walters of Tomball, Texas, Ronald Glen Dusterhoft of Katy, Texas, Priyesh Ranjan of Houston, Texas, and Ken Smith of Houston, Texas, hereby assign to Halliburton Energy Services, Inc., a Delaware corporation having a place of business at Houston, Texas, and its successors and assigns (collectively hereinafter called "the Assignee"), the entire right, title and interest throughout the world in the inventions and improvements which are subject of a PCT application entitled ANALYZING GEOMECHANICAL PROPERTIES OF SUBTERRANEAN ROCK BASED ON SEISMIC DATA, filed June 4, 2014, and assigned PCT Serial Number, PCT/US2014/040857 this assignment including said application, any and all United States and foreign applications and patents, utility models, and design registrations for any of said inventions or improvements; and the right to claim priority based on the filing date of said application under all treaties; and we hereby authorize the Assignee to apply in all countries in our name or in its own name for patents, utility models, design registrations and like rights of exclusion and for inventors' certificates for said inventions and improvements; and we agree for ourselves and our respective heirs, legal representatives and assigns, without further compensation to perform such lawful acts and to sign such further applications, assignments, Preliminary Statements and other lawful documents as the Assignee may reasonably request to effectuate fully this assignment.

Glenn Robert McColpin DATE: July 2, 2014
Glenn Robert McColpin

STATE OF TEXAS §
COUNTY OF Harris §

On the 2nd day of July, 2014, before me, the undersigned notary public, personally appeared Debra Pauline Nunez, known to me to be the person whose name is subscribed on the foregoing instrument.

Debra Pauline Nunez
Notary Public, State of Texas



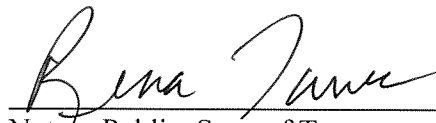


Harold Grayson Walters

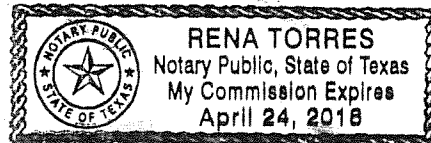
DATE: 5/27/2014

STATE OF TEXAS §
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COUNTY OF Harris §

On the 30 day of May, 2014, before me, the undersigned notary public, personally appeared Harold Grayson Walters known to me to be the person whose name is subscribed on the foregoing instrument.



Notary Public, State of Texas



Ronald Glen Dusterhoft

Ronald Glen Dusterhoft

DATE: May 30, 2019

STATE OF TEXAS

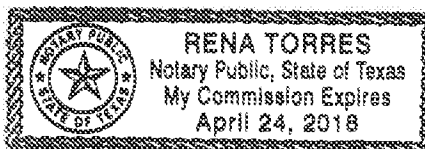
COUNTY OF Harris

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On the 30 day of May, 2019, before me, the undersigned notary public, personally appeared Ron Dusterhoft, known to me to be the person whose name is subscribed on the foregoing instrument.

Rena Torres

Notary Public, State of Texas



Priyesh Ranjan
Priyesh Ranjan

DATE:

5/27/14

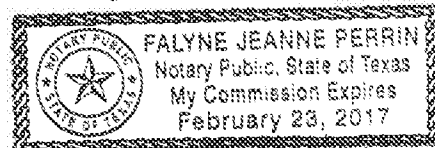
STATE OF TEXAS

COUNTY OF Harris

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On the 27th day of May, 2014 before me, the undersigned notary public, personally appeared Priyesh Ranjan, known to me to be the person whose name is subscribed on the foregoing instrument.

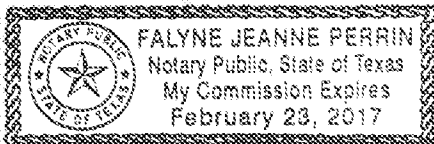
Falyne Perrin
Notary Public, State of Texas



Ken Smith DATE: 5/30/14
Ken Smith

STATE OF TEXAS §
COUNTY OF Harris §

On the 30th day of May, 2014 before me, the undersigned notary public, personally appeared Ken Smith, known to me to be the person whose name is subscribed on the foregoing instrument.



Falyne Jeanne Perrin
Notary Public, State of Texas

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