

PATENT ASSIGNMENT

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SUBMISSION TYPE:	NEW ASSIGNMENT												
NATURE OF CONVEYANCE:	ASSIGNMENT												
CONVEYING PARTY DATA													
<table border="1"> <thead> <tr> <th>Name</th> <th>Execution Date</th> </tr> </thead> <tbody> <tr> <td>James Randolph Lovorn</td> <td>03/09/2011</td> </tr> <tr> <td>Derrick Winston Lewis</td> <td>03/22/2011</td> </tr> <tr> <td>Michael John Strachan</td> <td>03/23/2011</td> </tr> <tr> <td>Clive D Menezes</td> <td>03/16/2011</td> </tr> <tr> <td>Daniel D Gleitman</td> <td>03/21/2011</td> </tr> </tbody> </table>		Name	Execution Date	James Randolph Lovorn	03/09/2011	Derrick Winston Lewis	03/22/2011	Michael John Strachan	03/23/2011	Clive D Menezes	03/16/2011	Daniel D Gleitman	03/21/2011
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<table border="1"> <tr> <td>Name:</td> <td>Halliburton Energy Services, Inc.</td> </tr> <tr> <td>Street Address:</td> <td>10200 Bellaire Blvd</td> </tr> <tr> <td>City:</td> <td>Houston</td> </tr> <tr> <td>State/Country:</td> <td>TEXAS</td> </tr> <tr> <td>Postal Code:</td> <td>77072</td> </tr> </table>		Name:	Halliburton Energy Services, Inc.	Street Address:	10200 Bellaire Blvd	City:	Houston	State/Country:	TEXAS	Postal Code:	77072		
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CORRESPONDENCE DATA													
<p>Fax Number: 7134291585 <i>Correspondence will be sent via US Mail when the fax attempt is unsuccessful.</i></p> <p>Phone: 713-589-4877</p> <p>Email: BSCHMIDT@WESIPLAW.COM</p> <p>Correspondent Name: WILLIAM E. SCHMIDT, P.C.</p> <p>Address Line 1: 9014 STERLINGAME DRIVE</p> <p>Address Line 4: HOUSTON, TEXAS 77031</p>													
ATTORNEY DOCKET NUMBER:	HAL039442US												
NAME OF SUBMITTER:	William E Schmidt												
Total Attachments: 7													

OP \$40.00 13635490

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ASSIGNMENT

WHEREAS, WE, James Randolph Lovorn, residing at 12722 Benton Park Lane, Tomball, TX 77377, Derrick Winston Lewis, residing at 13247 Stonecrest Drive Conroe, Texas 77302, and Michael John Strachan, residing at 53 Cascade Springs Place Spring, TX 77381, and Clive D. Menezes, residing at 2462 Bill Smith Rd, Conroe, TX 77384, and Daniel D. Gleitman, residing at 637 Cortlandt St, Houston, TX, 77007, are the inventors of certain new and useful inventions and improvements for which a PCT application is being made for Letters Patent and is further identified by Attorney's Docket No. HAL039442PCT, and is entitled "APPARATUS AND METHOD FOR WELL OPERATIONS."

WHEREAS, WE hereby authorize and request the attorneys representing Halliburton Energy Services, Inc. on this application, at William E Schmidt, PC, or at Halliburton Energy Services, Inc., to insert here in parentheses (Ser. No. PCT/US11/29533 Filing Date: 23 MAR 2011) the filing date and application number of said application, when known.

FOR GOOD AND VALUABLE CONSIDERATION, the receipt, sufficiency and adequacy of which are hereby acknowledged, the undersigned do hereby:

SELL, ASSIGN AND TRANSFER to Halliburton Energy Services, Inc. (the "Assignee"), a corporation of the State of Delaware, having a place of business at 10200 Bellaire Blvd, Houston, TX 77072, the entire right, title and interest for the United States and all foreign countries in and to: any and all inventions and improvements which are disclosed in the identified PCT application for Letters Patent; such application and all divisional, continuing, substitute, renewal, reissue and all other applications for patent which have been or shall be filed in the United States (including all provisional and non-provisional applications), and in all foreign countries on any of such inventions and/or improvements (including any applications for utility models); all original and reissued patents which have been or shall be issued in the United States and all foreign countries on such inventions and/or improvements; and specifically including the right to file foreign applications under the provisions of any convention or treaty and to claim

priority based on the application identified above and any additional priority applications listed below,

Additional Priority Applications: US 61/316819 filed March 23, 2010;

AUTHORIZE AND REQUEST the issuing authority to issue any and all United States and foreign patents granted on such improvements to the Assignee;

WARRANT AND COVENANT that no assignment, grant, mortgage, license or other agreement affecting the rights and/or property herein conveyed has been or will be made to others by the undersigned, and that the full right to convey the same as herein expressed is possessed by the undersigned;

COVENANT, that when requested and without compensation, but at the expense of the Assignee, in order to carry out in good faith the intent and purpose of this Assignment, the undersigned will (1) execute all provisional, non-provisional, divisional, continuing, substitute, renewal, reissue, and all other patent applications on any and all such improvements; (2) execute all rightful oaths, declarations, assignments, powers of attorney and other papers; (3) communicate to the Assignee all facts known to the undersigned relating to such improvements and the history thereof; (4) cooperate with the Assignee in any interference, reexamination, reissue, opposition, dispute, or litigation involving any of the applications or patents for such improvements; and (5) take such further actions as the Assignee shall reasonably consider necessary or desirable for vesting title to such improvements in the Assignee, or for securing, maintaining and enforcing proper patent protection for such improvements;

THIS AGREEMENT IS TO BE BINDING on the heirs, assigns, representatives and successors of the undersigned, and is to extend to the benefit of the successors, assigns and nominees of the Assignee.

AGREED as of the date of our signatures below:

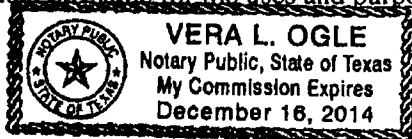
IN TESTIMONY WHEREOF, I have hereunto set my hand this 9 day of
March, 2011.

James Randolph Lovorn
James Randolph Lovorn

STATE OF Texas

COUNTY OF Harris

On this 9 day of March, 2011 before me personally appeared James
Randolph Lovorn, to me known and known to me to be the person described in and who
executed the foregoing instrument, and he/she duly acknowledged to me that he/she
executed the same for the uses and purposes therein set forth.



[SEAL]

Vera L. Ogle
Notary Public

IN TESTIMONY WHEREOF, I have hereunto set my hand this 22nd day of MARCH, 20 11.



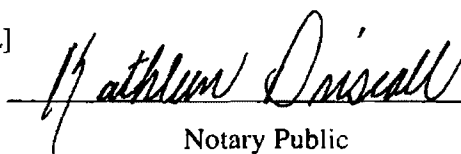
Derrick Winston Lewis

STATE OF Texas

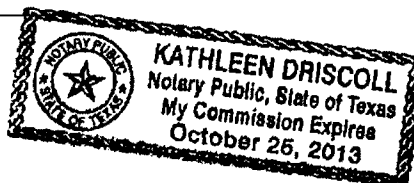
COUNTY OF HARRIS

On this 22nd day of MARCH, 20 11 before me personally appeared Derrick Winston Lewis, to me known and known to me to be the person described in and who executed the foregoing instrument, and he/she duly acknowledged to me that he/she executed the same for the uses and purposes therein set forth.


[SEAL]



Notary Public



IN TESTIMONY WHEREOF, I have hereunto set my hand this 23 day of
March, 2011.



Michael John Strachan

STATE OF _____)

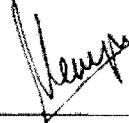
COUNTY OF Dubai, UAE)

On this _____ day of _____, 20____ before me personally appeared
Michael John Strachan, to me known and known to me to be the person described in and
who executed the foregoing instrument, and he/she duly acknowledged to me that he/she
executed the same for the uses and purposes therein set forth.

[SEAL]

Notary Public

IN TESTIMONY WHEREOF, I have hereunto set my hand this 16 day of March, 2011.

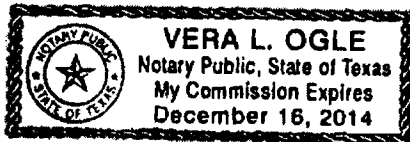


Clive D. Menezes

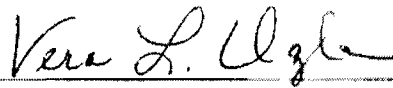
STATE OF Texas

COUNTY OF Harris

On this 16 day of March, 2011 before me personally appeared Clive D. Menezes, to me known and known to me to be the person described in and who executed the foregoing instrument, and he/she duly acknowledged to me that he/she executed the same for the uses and purposes therein set forth.



[SEAL]



Notary Public

IN TESTIMONY WHEREOF, I have hereunto set my hand this 21 day of March, 2011.



Daniel D. Gleitman

STATE OF Texas,

COUNTY OF Harris,

On this 21 day of March, 2011 before me personally appeared Daniel D. Gleitman, to me known and known to me to be the person described in and who executed the foregoing instrument, and he/she duly acknowledged to me that he/she executed the same for the uses and purposes therein set forth.



[SEAL]



Notary Public