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Atty Ref/Docket No.: 1880.276WO1	Patent and Trademark Office	
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1. Name of conveying party(ies):	2. Name and address of receiving party(ies):	
<ul> <li>Clint P. Lozinsky, Jon Troy Gosney and Bogusław Wiecek</li> <li>Additional name(s) of conveying party(ies) attached?</li> <li>[]Yes [X]No</li> <li>3. Nature of conveyance:</li> <li>[X] Assignment [] Merger</li> <li>[] Security Agreement [] Change of Name</li> <li>[] Other</li> <li>Execution Date: September 4, 2009, September 3, 2009,</li> </ul>	Name: <u>Halliburton Energy Services, Inc.</u> Street Address: <u>10200 Bellaire Blvd</u> City: <u>Houston</u> State: <u>TX</u> Zip: <u>77072</u> Additional name(s) & address(cs) attached? [ ]Yes [X]No	
<ul> <li><u>September 30, 2009</u></li> <li>4. Application number(s) or patent number(s):</li> <li>If this document is being filed together with a new application,</li> <li>A. Patent Application No.(s)</li> <li>Serial No. PCT/US2009/52849, filed August 5, 2009</li> <li>Additional numbers attached? []Yes [X]No</li> </ul>	, the execution date of the application is: B. Patent No.(s)	
<ul> <li>5. Name and address of party to whom correspondence concerning document should be mailed:</li> <li>Name: <u>Mark V. Muller</u></li> <li>Address: <ul> <li>Schwegman, Lundberg &amp; Woessner, P.A.</li> <li>P.O. Box 2938</li> <li>Minneapolis, MN 55402-0938</li> </ul> </li> </ul>	<ol> <li>6. Total number of applications and patents involved: 1</li> <li>7. Total fee (37 CFR 3.41):\$ 40.00         <ul> <li>[]Enclosed</li> <li>[X]Authorized to be charged to deposit account 19-0743</li> </ul> </li> <li>8. Please charge any additional fees or credit any over payments to our Deposit Account No.: 19-0743</li> </ol>	
DO NOT USE THIS SPACE		
9. Statement and signature. To the best of my knowledge and belief, the foregoing informa of the original document.	tion is true and correct and any attached copy is a true copy	

Mark V. Muller/Reg. No. 37,509 / Mark V. Muller / MARCH 29, 2010 Name of Person Signing Date Date Total number of pages including cover sheet: 6

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Commissioner of Patents and Trademarks Mail Stop Assignment Recordation Services P.O. Box 1450 Alexandria, VA 22313-1450

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## ASSIGNMENT

WHEREAS, We, Clint P. Lozinsky, residing at 10-3040 Spence Wynd SW, Edmonton, Alberta T6X IN7, Canada, and Jon Troy Gosney, residing at 422 S. Holland, Bellville, TX 77418, and Boguslaw Wiecek, residing at 830 - 116A Street NW, Edmonton, Alberta T6J 6Z8, Canada, made certain new and useful inventions and improvements which are described in an application for U.S. Letters Patent on August 5, 2009, which application was assigned U.S. patent application serial number PCT/US09/52849, and is entitled <u>AZIMUTHAL ORIENTATION DETERMINATION</u>;

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

SELL, ASSIGN AND TRANSFER to <u>Halliburton Energy Services</u>, Inc. (the "Assignee"), a corporation of the State of <u>Delaware</u>, having a place of business at <u>10200</u> <u>Bellaire Blvd</u>, <u>Houston, TX 77072</u>, 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 application for U.S. Letters Patent, and which may be further identified below; 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 identified application;

AUTHORIZE AND REQUEST that any attorney associated with U.S. PTO Customer No. <u>21186</u> may (directly or through his/her designee) delete, insert, or alter any information identifying this application, or any related application, below, after execution of this Assignment;

## Additional Application Information

No Provisional claim for priority is being made at this time.

No U.S. Non-Provisional claim for priority is being made at this time.

No International or foreign claim for priority is being made at this time.

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

ASSIGNMENT Client Ref. No. 2009-IP-020239 PCT/E-Biling 2009-IPRO-020239 Assignors: Clint P. Lozinsky et al. Title: A2IMUTHAL ORIENTATION DETERMINATION Page 2 of 5 Docket No: 1880.276WO1 Serial Number: PCT/U509/52849

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 my signature below:

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ASSIGNMENT Client Ref. No. 2009-IP-020239 PCT/E-Biling 2009-IPRO-0202 Assignors: Clint P. Lozinsky et al. Title: AZIMUTHAL ORIENTATION DETERMINATION Page 3 of 5	Docket No: 1830.276WO1 39 Serial Number: PCT/U\$09/52849
IN TESTIMONY WHEREOF, I b September, 20 <u>09</u> .	ave hereunto set my hand this $\underline{4}$ day of
	Clint P. Lozinsky
STATE OF Alberty	-
)ss	
COUNTY OF (a gada )	
On this <u>day of</u> P. Lozinsky, to me known and known to me to	, 20 before me personally appeared <u>Clint</u> be the person described in and who executed the ledged to me that he/she executed the same for the
[SEAL]	

Notary Public

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ASSIGNMENT Client Ref. No. 2009-IP-020239 PCT/E-Biling 2009-IPRO-020239 Assignors: Clint P. Lozinsky et al. Title: AZIMUTHAL ORIENTATION DETERMINATION Page 4 of 5	Docket No: 1880.276WO1 Serial Number: PCT/US09/52849
IN TESTIMONY WHEREOF, I have hereunto s , 20 <u>69</u> _	et my hand this <u>3</u> day of
	J-Jamy
	Jon Troy Gosney
STATE OF <u>Texas</u> )	
)ss	
COUNTY OF Harris	
On this <u>3</u> day of <u>September</u> , 20 <u>09</u> <u>Troy Gosney</u> , to me known and known to me to be the persor foregoing instrument, and he/she duly acknowledged to me th uses and purposes therein set forth.	before me personally appeared <u>Jon</u> a described in and who executed the nat he/she executed the same for the
[SEAL]	

Notary Public

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Docket No: 1880.276WO1 ASSIGNMENT Client Ref. No. 2009-IP-020239 PCT/E-Biling 2009-IPRO-020239 Serial Number: PCT/US09/52849 Assignors: Clint P. Lozinsky et al. Title: AZIMUTHAL ORIENTATION DETERMINATION Page 5 of 5 IN TESTIMONY WHEREOF, I have hereunto set my hand this  $3\sigma$  day of ection for , 20 09. *Bayyan Migila* Boguslaw Wiecek Courtwy STATE OF Carad )55 horma COUNTY OF Alberto On this <u>30</u> day of <u>50</u> day <u>60</u> day <u>60</u> day of <u>60</u> 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.

No Exping on Commission Notary Public in and for the Province of Alberta, Canada

Nadia D. Koziak Barrister & Solicitor

> PATENT REEL: 024166 FRAME: 0448

**RECORDED: 03/31/2010**