

<b>PATENT ASSIGNMENT COVER SHEET</b>
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EPAS ID: PAT5035202

<b>SUBMISSION TYPE:</b>	NEW ASSIGNMENT
<b>NATURE OF CONVEYANCE:</b>	ASSIGNMENT
<b>CONVEYING PARTY DATA</b>	
<b>Name</b>	<b>Execution Date</b>
GARRY MCCRAW	08/08/2014
<b>RECEIVING PARTY DATA</b>	
<b>Name:</b>	National Oilwell Varco, L.P.
<b>Street Address:</b>	7909 Parkwood Circle Drive
<b>City:</b>	Houston
<b>State/Country:</b>	TEXAS
<b>Postal Code:</b>	77036
<b>PROPERTY NUMBERS Total: 1</b>	
<b>Property Type</b>	<b>Number</b>
<b>Application Number:</b>	16026516
<b>CORRESPONDENCE DATA</b>	
<b>Fax Number:</b>	(713)434-6671
<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>	
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<b>Correspondent Name:</b>	JEFFREY ALLEN PFEIFER
<b>Address Line 1:</b>	AMERSON LAW FIRM, PLLC
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<b>ATTORNEY DOCKET NUMBER:</b>	2160.020996/60.3694-1
<b>NAME OF SUBMITTER:</b>	JEFFREY ALLEN PFEIFER
<b>SIGNATURE:</b>	/J. Pfeifer/
<b>DATE SIGNED:</b>	07/03/2018
<b>Total Attachments: 1</b>	
source=Assignment#page1.tif	

**ASSIGNMENT**

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

SELL, ASSIGN AND TRANSFER to **NATIONAL OILWELL VARCO, L.P.** (the "Assignee"), having a place of business at **7909 Parkwood Circle Drive, Houston, Texas 77036**, the entire right, title and interest for the United States and all foreign countries in and to any and all improvements which are disclosed in the application for United States Letters Patent, Serial No. 14/325,622, filed July 8, 2014, entitled **CLOSED LOOP DRILLING MUD COOLING SYSTEM FOR LAND-BASED DRILLING OPERATIONS**, 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 and all foreign countries on any of such improvements; all original and reissued patents which have been or shall be issued in the United States and all foreign countries on such improvements; and specifically including the right to file foreign applications under the provisions of any convention or treaty and claim priority based on such application in the United States;

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 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, when requested and at the expense of the Assignee, to carry out in good faith the intent and purpose of this assignment, the undersigned will execute all divisional, continuing, substitute, renewal, reissue, and all other patent applications on any and all such improvements; execute all rightful oaths, declarations, assignments, powers of attorney and other papers; communicate to the Assignee all facts known to the undersigned relating to such improvements and the history thereof; and generally do everything possible which the Assignee shall consider desirable for vesting title to such improvements in the Assignee, and for securing, maintaining and enforcing proper patent protection for such improvements;

TO BE BINDING on the heirs, assigns, representatives and successors of the undersigned and extend to the successors, assigns and nominees of the Assignee.


Signature:   
Name: GARRY MCCRAW

Date: 8/8/2014

WITNESSES FOR GARRY MCCRAW:



Date: 8/8/2014



Date: 8/8/2014