

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>Trevor K.C. PUGH</td> <td>01/10/2012</td> </tr> <tr> <td>Patrick A. KELLEHER</td> <td>01/10/2012</td> </tr> </tbody> </table>		Name	Execution Date	Trevor K.C. PUGH	01/10/2012	Patrick A. KELLEHER	01/10/2012
Name	Execution Date						
Trevor K.C. PUGH	01/10/2012						
Patrick A. KELLEHER	01/10/2012						
RECEIVING PARTY DATA							
Name:	NATIONAL OILWELL VARCO, L.P.						
Street Address:	7909 Parkwood Circle						
City:	Houston						
State/Country:	TEXAS						
Postal Code:	77036						
PROPERTY NUMBERS Total: 1							
<table border="1"> <thead> <tr> <th>Property Type</th> <th>Number</th> </tr> </thead> <tbody> <tr> <td>Application Number:</td> <td>13383426</td> </tr> </tbody> </table>		Property Type	Number	Application Number:	13383426		
Property Type	Number						
Application Number:	13383426						
CORRESPONDENCE DATA							
Fax Number:	(713)238-8008						
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Address Line 1:	P.O.Box 3267						
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ATTORNEY DOCKET NUMBER:	1814-62901						
NAME OF SUBMITTER:	David M. Wilson						
<p>Total Attachments: 4 source=62901ASSIGNMENT#page1.tif source=62901ASSIGNMENT#page2.tif source=62901ASSIGNMENT#page3.tif source=62901ASSIGNMENT#page4.tif</p>							

CH \$40.00 13383426

ASSIGNMENT

FOR GOOD AND VALUABLE CONSIDERATION to me by NATIONAL OILWELL VARCO, L.P., the receipt and sufficiency of which are hereby acknowledged, we, Trevor K. C. PUGH and Patrick A. KELLEHER ("ASSIGNOR"), having made an invention in **METHODS AND APPARATUS FOR DETERMINATION OF PARAMETERS RELATED TO A COILED TUBING STRING**, while in the employ either as an employee or consultant of NATIONAL OILWELL VARCO, L.P., a Delaware Limited Partnership, doing business at 7909 Parkwood Circle Drive, Houston, Texas 77036, sometimes hereinafter called "ASSIGNEE"), do hereby assign, sell and convey to said NATIONAL OILWELL VARCO, L.P., its successors and assigns, the entire right, title and interest throughout the world in and to:

1. Said invention in **METHODS AND APPARATUS FOR DETERMINATION OF PARAMETERS RELATED TO A COILED TUBING STRING**;
2. United States of America provisional patent application on said invention, Application No. 61/232,473 filed August 10, 2009, entitled **METHODS AND APPARATUS FOR CALCULATION OF DISTANCE TRAVELED, VELOCITY AND ACCELERATION OF COILED TUBING STRING**;
3. Patent Cooperation Treaty international application on said invention, Application No. PCT/US2010/045015, filed August 10, 2010, entitled **METHODS AND APPARATUS FOR DETERMINATION OF PARAMETERS RELATED TO A COILED TUBING STRING**, based on and claiming priority to the U.S. Provisional Application No. 61/232,473 filed August 10, 2009, Attorney's File No. 1814-62900;
4. United States of America patent application on said invention, as U.S. Patent Application No. 13/383,426 filed January 11, 2012 (Attorney's File No. 1814-62901; attorney is authorized to fill in the application number and filing date after assignment by the U.S. Patent and Trademark Office), entitled **METHODS AND APPARATUS FOR DETERMINATION OF PARAMETERS RELATED TO A COILED TUBING STRING**; which is a National Phase entry from PCT Application Serial No. PCT/US2010/045015, filed August 10, 2010, which claims priority to US Provisional Application Serial No. 61/232,473 filed August 10, 2009;

5. All applications for patent or like protection on said invention that have now been or may in the future be made by me or my legal representatives, including any continuation, continuation-in-part and any other utility applications that may be based on this invention, whether in the United States of America or any other place anywhere in the world;
6. All patents and like protection that have now been or may in the future be granted on said invention to me or my legal representatives, whether in the United States of America or in any other country or place anywhere in the world;
7. All substitutions for and divisions, continuations, continuations-in-part, renewals, reissues, extensions, and the like of said applications and patents and like grants, including without limitation, those obtained or permissible under past, present and future laws and statutes;
8. All rights of action on account of past, present and future unauthorized use of said invention and for infringement of said patents and like protection;
9. The right in ASSIGNEE to file in its name applications for patents and like protection for said invention in any country or countries foreign to the United States; and
10. All international rights of priority associated with said invention, applications, patents and like protection;

and We covenant that We, and our heirs, legal representatives, assigns, administrators, and executors, will, at the expense of ASSIGNEE, its successors and assigns, execute all papers and perform such other acts as may be reasonably necessary to give ASSIGNEE, its successors and assigns, the full benefit of this Assignment.

EXECUTED on the date indicated below, opposite my signature.

Date: 1/10 2012

ASSIGNOR

Trevor K. C. PUGH
Trevor K. C. PUGH

THE STATE OF TEXAS §
 §
COUNTY OF HARRIS §

BEFORE ME, the undersigned authority, on this day personally appeared **Trevor K. C. PUGH**, known to me to be the person whose name is subscribed to the foregoing instrument, and acknowledged to me that he executed the same for the purposes and consideration therein expressed.

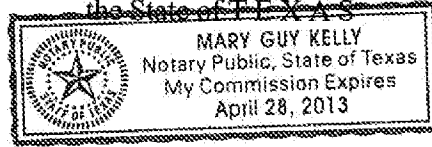
GIVEN UNDER MY HAND AND SEAL OF OFFICE, this the 10 day of January, 2012

[SEAL]

My Commission Expires:

4-28-2013

Mary Guy Kelly
Notary Public in and for
the State of TEXAS



EXECUTED on the date indicated below, opposite my signature.

Date: 1/10 2012

ASSIGNOR

[Signature]
Patrick A. KELLEHER

THE STATE OF TEXAS §
 §
COUNTY OF _____ §

BEFORE ME, the undersigned authority, on this day personally appeared **Patrick A. KELLEHER**, known to me to be the person whose name is subscribed to the foregoing instrument, and acknowledged to me that he executed the same for the purposes and consideration therein expressed.

GIVEN UNDER MY HAND AND SEAL OF OFFICE, this the 10 day of January, 2012

[SEAL]

Mary Guy Kelly
Notary Public in and for
the State of TEXAS

My Commission Expires:

4-28-2013

