

## PATENT ASSIGNMENT COVER SHEET

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Stylesheet Version v1.2

EPAS ID: PAT4210164

<b>SUBMISSION TYPE:</b>	NEW ASSIGNMENT
<b>NATURE OF CONVEYANCE:</b>	ASSIGNMENT
<b>CONVEYING PARTY DATA</b>	
<b>Name</b>	<b>Execution Date</b>
LUCAS FONTENELLE	07/16/2014
ENRIQUE ANTONIO REYES	07/16/2014
ELI ALLEN SCHNOOR	07/16/2014
DANDAN HU	07/16/2014
<b>RECEIVING PARTY DATA</b>	
<b>Name:</b>	HALLIBURTON ENERGY SERVICES, INC.
<b>Street Address:</b>	3000 N. SAM HOUSTON PARKWAY E.
<b>City:</b>	HOUSTON
<b>State/Country:</b>	TEXAS
<b>Postal Code:</b>	77032-3219
<b>PROPERTY NUMBERS Total: 1</b>	
<b>Property Type</b>	<b>Number</b>
<b>Application Number:</b>	15323090
<b>CORRESPONDENCE DATA</b>	
<b>Fax Number:</b>	(888)712-9587
<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>	
<b>Phone:</b>	281-825-5235
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<b>Address Line 1:</b>	P.O. BOX 1906
<b>Address Line 4:</b>	CYPRESS, TEXAS 77032-3219
<b>ATTORNEY DOCKET NUMBER:</b>	1399-076.03
<b>NAME OF SUBMITTER:</b>	VY NGUYEN
<b>SIGNATURE:</b>	/Vy Nguyen/
<b>DATE SIGNED:</b>	01/04/2017
<b>Total Attachments: 5</b>	
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## ASSIGNMENT

Whereas, I/We, Lucas FONTENELLE, of Houston, Texas, Enrique Antonio REYES, of Tomball, Texas, Eli Allen SCHNOOR of Kingwood, Texas, and Dandan HU, of Tomball, Texas have invented "Methods for Increasing the Surface Area of Fractures or to Increase the Depth of Penetration Fractures in Low Permeability Oil and Gas Reservoirs Containing Shale to Increase Productivity" for which I/We have made application for Letters Patent of the United States; and

Whereas, HALLIBURTON ENERGY SERVICES, INC., a Delaware Corporation, having a place of business at 3000 N. Sam Houston Parkway E., Houston, Texas 77032 is desirous of acquiring an interest therein;

NOW, THEREFORE, for good and valuable consideration, the receipt and sufficiency of which is hereby acknowledged, I/We, by these presents do sell, assign and transfer and convey unto HALLIBURTON ENERGY SERVICES, INC., its successors and assigns, the full and exclusive right, for the United States of America and its territorial possessions and for any and all foreign countries, in and to the said invention, described in the Patent Application serial number PCT/US2014/047137 filed on July 18, 2014 (attorney is authorized to enter the serial number and filing date) and any divisional, continuing or reissue application based on the present application preparatory to obtaining Letters Patent of the United States therefor; said invention, application and any and all Letters Patent issuing therefor to be held and enjoyed by HALLIBURTON ENERGY SERVICES, INC., for its own use and behoof, and for its legal representatives, successors and assigns, to the full end of the term for which said Letters Patent may be granted, as fully and entirely as the same would have been held by me and had this assignment and sale not been made.

And I do further agree to sign all papers, make all rightful oaths and do all requisite acts for the filing of any disclaimer or for the filing and assignment of any divisional, continuing or reissue application or applications for patent based on the present application, as well as for any other U.S. or foreign application for patent which relates to the said invention.

And I do further agree to communicate to HALLIBURTON ENERGY SERVICES, INC., its successors, assign or other legal representatives, such facts relating to the invention disclosed in the present application or Letters Patent issuing thereon as may be known to me, and to testify as to such facts in any interference or other litigation.

Executed this 16<sup>th</sup> day of July, 2014.

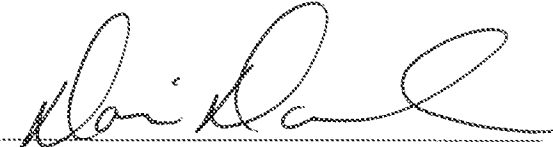
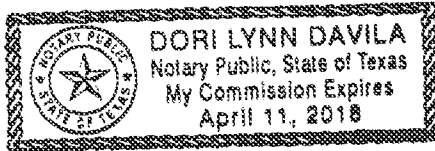


Lucas FONTENELLE

STATE OF TEXAS )  
 ) ss  
COUNTY OF HARRIS )

Before me, the undersigned authority, on this day 16 day of July, 2014, personally appeared **Lucas FONTENELLE**, known to me to be the person whose name is subscribed to the foregoing instrument and acknowledged to me that he executed the same of his own free will for the purposes and consideration therein expressed.

[SEAL]



(Notary Public)

Executed this 16 day of July, 2014.

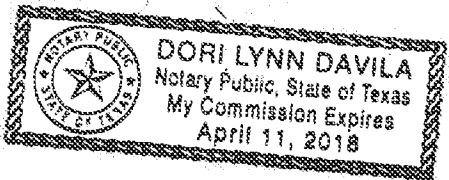
*[Handwritten Signature]*  
Enrique Antonio REYES

STATE OF Texas )  
                                  ) ss  
COUNTY OF Harris )

Before me, the undersigned authority, on this day 16 day of July, 2014,  
personally appeared Enrique Antonio REYES, known to me to be the person whose name is  
subscribed to the foregoing instrument and acknowledged to me that he executed the same of his  
own free will for the purposes and consideration therein expressed.

[SEAL]

*[Handwritten Signature]*  
(Notary Public)



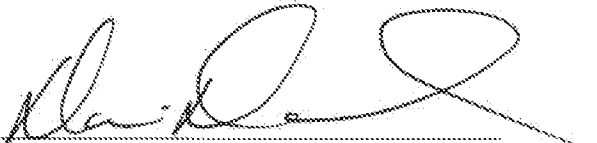
Executed this 16<sup>th</sup> day of July, 2014.

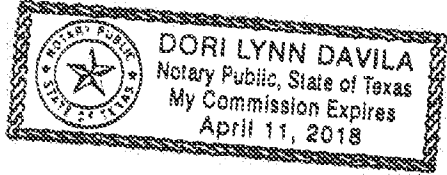
  
Eli Allen SCHNOOR

STATE OF Texas            )  
  ) ss  
COUNTY OF Harris         )

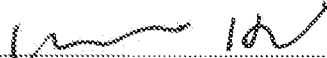
Before me, the undersigned authority, on this day 16<sup>th</sup> day of July, 2014, personally appeared **Eli Allen SCHNOOR**, known to me to be the person whose name is subscribed to the foregoing instrument and acknowledged to me that he executed the same of his own free will for the purposes and consideration therein expressed.

[SEAL]

  
(Notary Public)




Executed this 16 day of July, 2014.

  
Dandan HU

STATE OF Texas )  
 ) ss  
COUNTY OF Harris )

Before me, the undersigned authority, on this day 14 day of July, 2014, personally appeared **Dandan HU**, known to me to be the person whose name is subscribed to the foregoing instrument and acknowledged to me that he executed the same of his own free will for the purposes and consideration therein expressed.

[SEAL]

  
(Notary Public)

