503872473 06/15/2016

PATENT ASSIGNMENT COVER SHEET

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SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT

CONVEYING PARTY DATA

Name	Execution Date
JAMES WILLIAM OGLE	03/31/2014
PHILIP D. NGUYEN	02/24/2014

RECEIVING PARTY DATA

Name:	HALLIBURTON ENERGY SERVICES, INC.
Street Address:	10200 BELLAIRE BOULEVARD
City:	HOUSTON
State/Country:	TEXAS
Postal Code:	77072

PROPERTY NUMBERS Total: 1

Property Type	Number
Application Number:	15104685

CORRESPONDENCE DATA

Fax Number:

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.

Phone: 202 756 8000

Email: mweipdocket@mwe.com, ipdockethouston@mwe.com

Correspondent Name: MCDERMOTT WILL & EMERY LLP
Address Line 1: THE MCDERMOTT BUILDING

Address Line 2: 500 NORTH CAPITOL STREET, N.W.

Address Line 4: WASHINGTON, D.C. 20001

ATTORNEY DOCKET NUMBER:	098273-0661
NAME OF SUBMITTER:	IONA N. KAISER
SIGNATURE:	/lona N. Kaiser/
DATE SIGNED:	06/15/2016
	This document serves as an Oath/Declaration (37 CFR 1.63).

Total Attachments: 4

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PATENT REEL: 038919 FRAME: 0098

DECLARATION AND ASSIGNMENT

As	s the below named inventor, I hereby declare that:
Th	nis declaration is directed to:
] The attached application to be filed as a United States application or
	PCT international application, or
\boxtimes	United States application or PCT international application number
	PCT/US2014/17910 filed on February 24, 2014; and,
entitled	"PROPPING SUBTERRANEAN FORMATION FRACTURES USING MEMORY

The above-identified application was made, or authorized to be made, by me.

PARTICULATES." Regarding that application, I declare the following:

- I believe that I am the original inventor or an original joint inventor of a claimed invention in the application.
- I hereby acknowledge that any willful false statement made in this
 declaration is punishable under 18 U.S.C. 1001 by fine or imprisonment of
 not more than five (5) years, or both.
- I have reviewed and understand the subject matter of the above-identified application, including the claims.
- I am aware of and acknowledge my duty to disclose to the United States
 Patent and Trademark Office all information known to me to be material to
 patentability under 37 CFR 1.56; including, for continuation-in-part
 applications, material information that became available between the filing of
 the prior application and the filing of the continuation-in-part application.

Moreover, Whereas, HALLIBURTON ENERGY SERVICES, INC., a Delaware Corporation, having a place of business at 10200 Bellaire Boulevard, Houston, TX 77072 (hereinafter "Assignee") is desirous of acquiring an interest therein;

NOW, THEREFORE, for good and valuable consideration, the receipt and sufficiency of which is hereby acknowledged, We, by these presents do sell, assign and transfer and convey unto Assignee, 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 Identified above, and any divisional, continuing or reissue application based on the present application preparatory to obtaining Letters Patent

1 of 2

of the United States therefore; said invention, application and any and all Letters Patent issuing there from to be held and enjoyed by Assignee, for its own use and benefit, 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 Assignee, 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.

xecuted this <u>31</u>___day of ___

. 2014

JAMES WILLIAM OGLE

COUNTY OF HALLS

Before me personally appeared said JAMES WILLIAM OGLE and acknowledged the foregoing instrument to be a free act and deed this 3 day of 4, 2014.

DORI LYNN DAVILA Notary Public, State of Texas My Commission Expires April 11, 2018

(Notary)

DECLARATION AND ASSIGNMENT

\boxtimes	The attached application to be filed as a United States application	OI
	PCT international application, or	
	United States application or PCT international application numb	ei

- The above-identified application was made, or authorized to be made, by me.
- I believe that I am the original inventor or an original joint inventor of a claimed invention in the application.
- I hereby acknowledge that any willful false statement made in this declaration is punishable under 18 U.S.C. 1001 by fine or imprisonment of not more than five (5) years, or both.
- I have reviewed and understand the subject matter of the above-identified application, including the claims.
- I am aware of and acknowledge my duty to disclose to the United States
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1 of 2

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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 Assignee, 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 ________day of ______

2014

PHILIP D. NGUYEN

STATE OF THE AS

COUNTY OF HARRIS

Before me personally appeared said PHILIP D. NGUYEN and acknowledged the foregoing instrument to be a free act and deed this 4day of 4db

Seal April 1988

(Notary)