PATENT ASSIGNMENT

Electronic Version v1.1 Stylesheet Version v1.1

SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT

CONVEYING PARTY DATA

Name	Execution Date
Paul D. Lord	04/15/2013
Renee A. LeBas	04/15/2013
Jim D. Weaver	04/12/2013

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:	13867389	

CORRESPONDENCE DATA

Fax Number: 2027568087

Correspondence will be sent via US Mail when the fax attempt is unsuccessful.

Phone: 202 756 8000

Email: mweipdocket@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, DISTRICT OF COLUMBIA 20001

ATTORNEY DOCKET NUMBER:	091721-0324	
NAME OF SUBMITTER:	Debbie Allen	
Signature:	/Debbie Allen/	

PATENT REEL: 030272 FRAME: 0855 40.00 1386

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Date:	04/22/2013
	This document serves as an Oath/Declaration (37 CFR 1.63).
Total Attachments: 6 source=0917210324DeclAssign#page1.tif source=0917210324DeclAssign#page2.tif source=0917210324DeclAssign#page3.tif source=0917210324DeclAssign#page4.tif source=0917210324DeclAssign#page5.tif source=0917210324DeclAssign#page6.tif	

PATENT REEL: 030272 FRAME: 0856

DECLARATION AND ASSIGNMENT

As	the below named inventor, I hereby declare that:
Thi	s declaration is directed to:
\boxtimes	The attached application to be filed as a United States application or
	PCT international application, or
	United States application or PCT international application number
	filed on; and,
entitled	"METHODS AND COMPOSITIONS OF TREATING A SUBTERRANEAN
FORMATION	ON WITH AN OPTIMIZED TREATMENT FLUID." Regarding that application,
I declare	the following:

- 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
 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

1 of 2

application based on the present application preparatory to obtaining Letters Patent 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.

Executed this	day ↔	f
STATE OF)	
COUNTY OF)	

Before me personally appeared said PAUL D. LORD and acknowledged the foregoing instrument to be a free act and deed this $\sqrt{5}$ day of Aocd, 2013.

Seal (Notary)

SAMANTHA LATRICE HENRY
Notary Public, State of Texas
My Commission Expires
January 31, 2017

DECLARATION AND ASSIGNMENT

As th	ne below named inventor, I hereby declare that:
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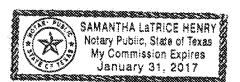
And I do further agree to sign all papers, make all rightful oaths and do all requisite acts for the filing of any disclaimer or for the filing and assignment of any divisional, continuing or reissue application or applications for patent based on the present application, as well as for any other U.S. 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	1 wee	<u> </u>	, 2013 Ole Pas
		KÉNEE A. LE	BAS	
STATE OF)			
COUNTY OF	í			

Before me personally appeared said RENEE A. LEBAS and acknowledged the foregoing instrument to be a free act and deed this $\sqrt{5}$ day of $\frac{\triangle pc}{\sqrt{1}}$, 2013.

Seal



(Notary)

DECLARATION AND ASSIGNMENT

As the below named inventor, I hereby declare that:
This declaration is directed to:
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PCT international application, or
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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 ______

STATE OF OKLAHOMA)

COUNTY OF STE PHEND)

Before me personally appeared said JIM D. WEAVER and acknowledged the foregoing instrument to be a free act and deed this $\frac{\lambda^{+}\Sigma}{\lambda}$ day of

2013.

Seal

Notary Public, State of Oklahoma TAMMY KNIGHT Commission # 10001384 Stephens Co., Oklahoma Expires 02-18-2014

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RECORDED: 04/22/2013