PATENT ASSIGNMENT

Electronic Version v1.1 Stylesheet Version v1.1

SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT

CONVEYING PARTY DATA

Name	Execution Date		
Philip D. Nguyen	06/24/2013		
Max L. Phillippi	06/24/2013		

RECEIVING PARTY DATA

Name:	alliburton 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:	13926141

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:	091721-0319
NAME OF SUBMITTER:	Debbie Allen
Signature:	/Debbie Allen/
Date:	06/25/2013
	PATENT

502397048 REEL: 030680 FRAME: 0294

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	This document serves as an Oath/Declaration (37 CFR 1.63).
Total Attachments: 4 source=0917210319DeclAssign#page1.tif source=0917210319DeclAssign#page2.tif source=0917210319DeclAssign#page3.tif source=0917210319DeclAssign#page4.tif	

PATENT REEL: 030680 FRAME: 0295

DECLARATION AND ASSIGNMENT

A	As the	below na	amed ir	nventor, I	hereb	y dec	lare th	ıat:			
7	This d	eclaration	n is dire	ected to:							
	Z	The atta	ched a	pplication	to be	filed	as a	United	States	applic	ation or
		PCT inter	rnation	al applica	tion, o	r					
		United 5	States	applicatio	n or	PCT	interr	ational	applic	ation	number
		***************************************	filed	d on		; an	d,				
entitled	I "ME	ETHODS	FOR F	ORMING	PROP	PANT	-FREE	CHAN	NELS I	N PR	OPPANT
PACKS	IN S	JBTERRA	NEAN F	ORMATIC	N FRA	CTUR	ES."	Regard	ing that	applic	cation, I
declare	the f	ollowing:									

- 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 $2Y^{H}$ day of J

2013

STATE OF TEXAS

COUNTY OF HARRIS

Before me personally appeared said PHILIP D. NGUYEN and acknowledged the

NGU

foregoing instrument to be a free act and deed this A day of

2013.



(Notary)

DECLARATION AND ASSIGNMENT

As the below named inventor, I hereby declare that:
This declaration is directed to:
$oxed{oxed}$ 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 FOR FORMING PROPPANT-FREE CHANNELS IN PROPPANT
PACKS IN SUBTERRANEAN FORMATION FRACTURES." 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 24 day of July , 2013

MAX L. PHILLIPPI

STATE OF OKLAHOWA)

COUNTY OF STEPHENS)

Before me personally appeared said MAX L. PHILLIPPI and acknowledged the foregoing instrument to be a free act and deed this 2A day of 3, 2013.

Seal

NOTARY PUBLIC State of Okla.

ALMA FRAIRE

Comm. # 12006759

Expires 07-18-2016

Olm 7. Laire (Notary)

2 of 2

RECORDED: 06/25/2013