#### 502311794 04/16/2013

### PATENT ASSIGNMENT

Electronic Version v1.1 Stylesheet Version v1.1

SUBMISSION TYPE:	NEW ASSIGNMENT	
NATURE OF CONVEYANCE:	ASSIGNMENT	

### **CONVEYING PARTY DATA**

	Name	Execution Date
P	Avi Lin	04/15/2013

### RECEIVING PARTY DATA

Name:	Halliburton Energy Services, Inc.	
Street Address: 10200 Bellaire Blvd.		
City: Houston		
State/Country: TEXAS		
Postal Code:	77072	

# PROPERTY NUMBERS Total: 1

Property Type	Number
Application Number:	13861986

#### **CORRESPONDENCE DATA**

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

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**Correspondent Name:** Fish & Richardson P.C.

Address Line 1: P. O. Box 1022

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ATTORNEY DOCKET NUMBER:	17908-0033001	
NAME OF SUBMITTER: Joni MeGuire		
Signature:	/Joni MeGuire/	
Date:	04/16/2013	

Total Attachments: 2

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**PATENT REEL: 030220 FRAME: 0306** 

Attorney Docket No.: 17908-0033001 2012-IP-064118 U1

## <u>ASSIGNMENT</u>

For valuable consideration, I, Avi Lin, of 7610 Hopewell Ln, Houston, TX 77071; hereby assign to HALLIBURTON ENERGY SERVICES, INC., a corporation of Delaware, having a place of business at 10200 Bellaire Blvd., Houston, Texas 77072, and its successors and assigns (collectively hereinafter called "the Assignee"), the entire right, title and interest throughout the world in the inventions and improvements which are subject of an application for United States Patent signed by me, entitled <u>IDENTIFYING ORIENTATION CLUSTERS FROM</u> MICROSEISMIC DATA, filed April 12, 2013, and assigned U.S. Serial Number 13/861,986, this assignment including said application, any and all United States and foreign patents, utility models, and design registrations for any of said inventions or improvements, and the right to claim priority based on the filing date of said application under the International Convention for the Protection of Industrial Property, the Patent Cooperation Treaty, the European Patent Convention, and all other treaties of like purposes; and I authorize the Assignee to apply in all countries in my name or in its own name for patents, utility models, design registrations and like rights of exclusion and for inventors' certificates for said inventions and improvements; and I agree for me and my respective heirs, legal representatives and assigns, without further compensation to perform such lawful acts and to sign such further applications, assignments, Preliminary Statements and other lawful documents as the Assignee may reasonably request to effectuate fully this assignment.

Assignment Page 1 of 2

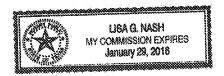
Attorney Docket No.: 17908-0033001 2012-IP-064118 Lil

DATE:	4/15/2013	alige -
		AVILIN

STATE OF <u>Texas</u>
) SS
COUNTY OF <u>Harris</u>

On April 15, 2013 before me, the undersigned, a notary public for the State of Texas, there personally appeared AVI LIN, personally known to me (or proved to me on the basis of satisfactory evidence) to be the person whose name is subscribed to this Assignment, who acknowledged having executed the same in his authorized capacity and that by his signature on this Assignment, the person or the entity upon behalf of which he acted, executed this Assignment.

WITNESS my hand and official seal.



Notary Public

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