

PATENT ASSIGNMENT

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SUBMISSION TYPE:	NEW ASSIGNMENT												
NATURE OF CONVEYANCE:	ASSIGNMENT												
CONVEYING PARTY DATA													
<table border="1"> <thead> <tr> <th>Name</th> <th>Execution Date</th> </tr> </thead> <tbody> <tr> <td>YOUXIANG ZUO</td> <td>06/06/2013</td> </tr> <tr> <td>ERIC LEHNE</td> <td>06/14/2013</td> </tr> <tr> <td>SAIFON SIRIMONGKOLKITTI</td> <td>06/13/2013</td> </tr> <tr> <td>SHU PAN</td> <td>06/06/2013</td> </tr> <tr> <td>OLIVER C. MULLINS</td> <td>06/10/2013</td> </tr> </tbody> </table>	Name	Execution Date	YOUXIANG ZUO	06/06/2013	ERIC LEHNE	06/14/2013	SAIFON SIRIMONGKOLKITTI	06/13/2013	SHU PAN	06/06/2013	OLIVER C. MULLINS	06/10/2013	
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YOUXIANG ZUO	06/06/2013												
ERIC LEHNE	06/14/2013												
SAIFON SIRIMONGKOLKITTI	06/13/2013												
SHU PAN	06/06/2013												
OLIVER C. MULLINS	06/10/2013												
RECEIVING PARTY DATA													
Name:	SCHLUMBERGER TECHNOLOGY CORPORATION												
Street Address:	300 SCHLUMBERGER DRIVE												
City:	SUGAR LAND												
State/Country:	TEXAS												
Postal Code:	77478												
PROPERTY NUMBERS Total: 1													
Property Type	Number												
Application Number:	13876801												
CORRESPONDENCE DATA													
Fax Number:	(713)689-2219												
<i>Correspondence will be sent via US Mail when the fax attempt is unsuccessful.</i>													
Phone:	713-689-1137												
Email:	ncorona@slb.com												
Correspondent Name:	MIMI CORONA												
Address Line 1:	10001 RICHMOND AVENUE												
Address Line 2:	IP ADMINISTRATION CENTER OF EXCELLENCE												
Address Line 4:	HOUSTON, TEXAS 77042												
ATTORNEY DOCKET NUMBER:	117.0066-US-PCT												
NAME OF SUBMITTER:	MIMI CORONA												

CH \$40.00 13876801

Signature:	/Mimi Corona/
Date:	10/02/2013
Total Attachments: 8 source=1170066USPCT_20131002_Executed-Assignment#page1.tif source=1170066USPCT_20131002_Executed-Assignment#page2.tif source=1170066USPCT_20131002_Executed-Assignment#page3.tif source=1170066USPCT_20131002_Executed-Assignment#page4.tif source=1170066USPCT_20131002_Executed-Assignment#page5.tif source=1170066USPCT_20131002_Executed-Assignment#page6.tif source=1170066USPCT_20131002_Executed-Assignment#page7.tif source=1170066USPCT_20131002_Executed-Assignment#page8.tif	

Assignment

WHEREAS, the undersigned inventors hereinafter referred to as the "Inventors" each said Inventor's address being listed below:

Youxiang Zuo, a citizen of Canada, residing at 2222 Settlers Way Blvd., Apt. 1726, Sugar Land, Texas 77478, United States of America;

Eric Lehne, a citizen of Germany, residing at 9947 Saskatchewan Drive, #806, Edmonton, Alberta, T6E 4R, Canada;

Saifon Sirimongkolkitti, a citizen of Thailand, residing at 50/60, Mool, Posadad, Tawaburi Road, Muang, Nakhonsithammarat, 80000, Thailand;

Shu Pan, a citizen of China, residing at 12425 17A Ave., SW, Edmonton, AB, T6W 1T8, Canada;

and

Oliver C. Mullins, a citizen of the United States of America, residing at 48 Lewis Dr., Ridgefield, CT 06877, United States of America;

Has/have invented certain new and useful improvements in

Methods For Reservoir Evaluation Employing Non-Equilibrium Compositional Gradients

as described and set forth in an application for Letters Patent of the United States of America, filed with the United States Patent and Trademark Office on March 28, 2013, Serial No. 13/876,801, (Docket No. 117.0066-US-PCT). **This assignment is effective as of March 28, 2013.**

AND WHEREAS, the "**COMPANIES**", listed in **Schedule A**, are desirous of acquiring or confirming their acquisition of the entire right, title and interest in and to said invention, inventions or improvements, and in and to said application, and in and to any and all patents, both of the United States and of all foreign countries, that may be obtained therefore **as outlined in Schedule A**;

NOW, THEREFORE, TO ALL WHOM IT MAY CONCERN, BE IT KNOWN, that the undersigned Inventors, for good and valuable considerations, the receipt and sufficiency of which hereby acknowledge, have sold, assigned, transferred and conveyed, and by this assignment do sell, assign, transfer and convey, unto said COMPANIES, their successors and assigns, the entire right, title and interest throughout the world, in and to the above-described invention, inventions or improvements described or set forth in said application, in any form or embodiment thereof, and in and to said application, and in and to any applications filed in any foreign country based thereon, including the right to file foreign applications under the provisions of any convention or treaty; and in and to any confirmation, divisional, continuation,

continuation-in-part, or substitute application which may be filed on said invention, inventions or improvements in the United States or in any foreign country; and in and to any and all patents, certificates, utility models, reissues, extensions, additions or confirmations thereof which may be granted in the United States or in any foreign country upon said invention, inventions or improvements,

TO HAVE AND TO HOLD the same to the full end of the term or terms for which any and all such United States and foreign patents and grants may be issued on said invention, inventions or improvements.

AND said Inventors do hereby authorize and request the issuing authority to issue any and all of said United States and foreign patents on said application or applications to said **COMPANIES**, their successors and assigns, as the assignee of the entire right, title and interest in and to the same, for the sole use and benefit of said **COMPANIES**, their successors and assigns.

AND said Inventors do hereby covenant and warrant that said Inventors have full right to convey the entire right, title and interest herein assigned free and clear of all licenses, encumbrances and liens whatsoever, and that no said Inventors has executed and will execute any instruments in conflict herewith.

AND said Inventors, for the conditions aforesaid, do hereby covenant and agree to and with the said **COMPANIES**, their successors and assigns, that each Inventor, his or her executors, administrators, or other personal representatives, shall and will do all lawful acts and things, make all rightful oaths, and make, execute and deliver any and all other instruments in writing, and any and all further applications, papers, powers, affidavits, assignments, disclaimers and other documents, which in the opinion of counsel for said **COMPANIES**, their successors and assigns, may be required or necessary in this or in any foreign country more effectually to secure to and vest in said **COMPANIES**, their successors and assigns, the entire right, title and interest in and to said invention, inventions or improvements, application or applications, patents, rights, titles, benefits, privileges, and advantages hereby sold, assigned, confirmed, transferred and conveyed.

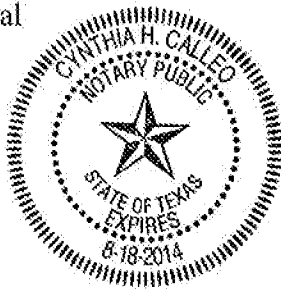
IN WITNESS WHEREOF I, **Youxiang Zuo**, have hereunto set my hand and seal this
6 day of June, 2013.


(Signature of Inventor)

STATE OF Texas
COUNTY OF Fort Bend

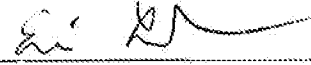
BEFORE ME this 6 day of June, 2013, personally appeared **Youxiang Zuo**, to
me known to be the person who is described in and who executed the foregoing assignment
instrument and acknowledged to me that he executed the same of his own free will for the
purpose therein expressed.

Seal

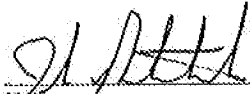



Notary Public

IN WITNESS WHEREOF I, **Eric Lehne**, have hereunto set my hand and seal this
14th day of June, 2013.



(Signature of Inventor)

BE IT KNOWN that **Eric Lehne**, is to me known to be the individual described in the foregoing assignment, that on this 14th day of June, 2013, I was personally present and did see him sign and execute the foregoing assignment; and, that he did acknowledge to me that he executed the same as his free act and deed for the uses and purposes therein set forth.


Witness

522 Butterworth Way
Edmonton AB T6R2N4

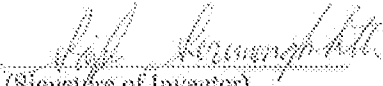
Post Office Address


Witness (AFZAL MEMON)


7416, 11 AVE SW
Edmonton, AB, T6X0N7

Post Office Address

IN WITNESS WHEREOF I, Saifon Sirmongkolkiti, have hereunto set my hand and seal this
11 day of JUNE, 2013.


(Signature of Inventor)

BE IT KNOWN that Saifon Sirmongkolkiti, is to me known to be the individual described in
the foregoing assignment, that on this 11th day of June, 2013, I was
personally present and did see him sign and execute the foregoing assignment; and, that he did
acknowledge to me that he executed the same as his free act and deed for the uses and purposes
therein set forth.


Witness

Suite 4201, Wisma Mulia
Jl. Jend. Gatot Subroto No 42
Jakarta 12710, Indonesia

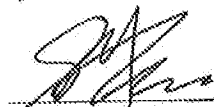
Post Office Address


Witness KRISNA PERHAYAL

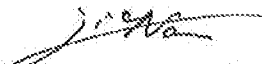
Suite 4201, Wisma Mulia
Jl. Jend. Gatot Subroto No 42
JAKARTA 12710, INDONESIA

Post Office Address

IN WITNESS WHEREOF I, **Shu Pan**, have hereunto set my hand and seal this 6 day
of June, 2013.



(Signature of Inventor)

BE IT KNOWN that **Shu Pan**, is to me known to be the individual described in the foregoing
assignment, that on this 6 day of June, 2013, I was personally present
and did see him sign and execute the foregoing assignment; and, that he did acknowledge to me
that he executed the same as his free act and deed for the uses and purposes therein set forth.

Na Jia 
Witness

8506 Sloane Crescent
Edmonton, Alberta
T6R 0L1


Post Office Address

Hongying Zhao 
Witness

108, Tegler Gate
Edmonton, Alberta
T6R 3A4

Post Office Address

IN WITNESS WHEREOF I, **Oliver C. Mullins**, have hereunto set my hand and seal this
10th day of June, 2013.



(Signature of Inventor)

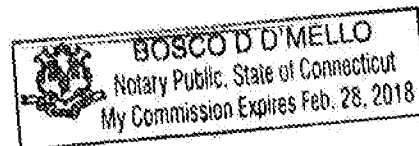
STATE OF _____

COUNTY OF _____

BEFORE ME this 10 day of June, 2013, personally appeared **Oliver C. Mullins**, to me known to be the person who is described in and who executed the foregoing assignment instrument and acknowledged to me that he executed the same of his own free will for the purpose therein expressed.

Seal


Notary Public



Schedule A
“COMPANIES”

SCHLUMBERGER TECHNOLOGY CORPORATION

Corporation of: United States of America

Located at: 300 Schlumberger Drive, Sugar Land, Texas 77478 U.S.A.

Assignee for applications in: United States of America

SCHLUMBERGER CANADA LIMITED

Corporation of: Canada

Located at: 525-3rd Avenue S.W., Calgary, Alberta, Canada T2P 0G4

Assignee for applications in: Canada

SERVICES PETROLIERS SCHLUMBERGER

Corporation of: France

Located at: 42 rue Saint Dominique, 75007 Paris, France

Assignee for applications in: France

SCHLUMBERGER HOLDINGS LIMITED

Corporation of: British Virgin Islands

Located at: P.O. Box 71, Craigmuir Chambers, Road Town, 1110 Tortola, British Virgin Islands

Assignee for applications in: Japan, The Netherlands, United Kingdom

SCHLUMBERGER TECHNOLOGY B.V.

Corporation of: the Netherlands

Located at: Parkstraat 83-89, 2514 JG The Hague, The Netherlands

Assignee for applications in: GCC and all other countries.

PRAD RESEARCH AND DEVELOPMENT LIMITED

Corporation of: British Virgin Islands

Located at: P.O. Box 71, Craigmuir Chambers, Road Town, 1110 Tortola, British Virgin Islands

Assignee for applications in: Angola, Bahrain, Bangladesh, Benin, Cambodia, Cameroon, Chad, China, Congo, Gabon, Ghana, Guinea-Bissau, India, Ivory Coast, Jordan, Libya, Mauritania, Morocco, Mozambique, Myanmar, Namibia, Nigeria, Philippines, Senegal, Sudan, Syria, Taiwan, Togo, UAE, Vietnam, Zaire.