

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>Yunlai Yang</td> <td>07/03/2012</td> </tr> <tr> <td>Yi Luo</td> <td>07/03/2012</td> </tr> </tbody> </table>		Name	Execution Date	Yunlai Yang	07/03/2012	Yi Luo	07/03/2012				
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CORRESPONDENCE DATA											
<p>Fax Number: 7132211212 Phone: 713.221.1564 Email: jeanne.dunn@bglp.com <i>Correspondence will be sent to the e-mail address first; if that is unsuccessful, it will be sent via US Mail.</i> Correspondent Name: Jeanne E. Dunn Address Line 1: P.O. Box 61389 Address Line 4: Houston, TEXAS 77208</p>											
ATTORNEY DOCKET NUMBER:	004159.005002										
NAME OF SUBMITTER:	Jeanne E. Dunn										
Total Attachments: 2 source=005002_Assignment#page1.tif source=005002_Assignment#page2.tif											

OP \$40.00 13554470

ASSIGNMENT

WHEREAS, We, YUNLAI YANG and YI LUO, (hereinafter referred to as "ASSIGNORS"), have made certain improvements or inventions described in a Non-Provisional Patent Application titled METHODS FOR EVALUATING ROCK PROPERTIES WHILE DRILLING USING DRILLING RIG MOUNTED ACOUSTIC SENSORS, which claims the benefit of U.S. Provisional Patent Application No. 61/539,213, filed with the U.S. Patent and Trademark Office on September 26, 2011, and have executed the patent application with the United States Patent and Trademark Office filed concurrently herewith (hereinafter "Patent Applications"); and

WHEREAS, Saudi Arabian Oil Company, a Company with Limited Liability of Saudi Arabia, with a business address of 1 Eastern Avenue, Dhahran 31311, Saudi Arabia (hereinafter referred to as "SAUDI ARAMCO"), is desirous of acquiring the entire right, title and interest in and to the aforesaid improvements or inventions throughout the world, and all right, title and interest in, to and under any and all Letters Patent of the United States and all other countries throughout the world.

NOW, THEREFORE, for good and valuable consideration, receipt whereof is hereby acknowledged, we do hereby sell, assign and transfer to SAUDI ARAMCO, its successors and assigns, all right, title and interest in and to said Patent Applications set forth above, the invention or inventions therein shown and described and any improvements on said invention or inventions heretofore or hereafter made throughout the world, any and all non-provisionals, divisions, continuations, or continuations-in-part of said Patent Applications and all patents, United States and foreign, to be granted upon any such applications or for the invention or inventions thereof, any reissues, reexaminations, continuations, continuations-in-part or extensions of said patents, and all rights for past infringement related to any patents issued or to be issued thereon, the same to be held and enjoyed by them for their own use and benefit, and for the use and benefit of their successors, assigns, or other legal representatives, to the end of the term or terms for which patents are granted as fully and entirely as the same would have been held and enjoyed by the ASSIGNOR if this assignment and sale had not been made.


And we hereby authorize and request the Commissioner of Patents and Trademarks to issue any and all Letters Patent of the United States on said invention or inventions resulting

from said Patent Applications and from any and all non-provisionals, divisions, continuations, continuations-in-part, and any reissues thereof, to SAUDI ARAMCO, as assignee of our entire interest, and hereby covenant that we have the full right to convey the entire interest herein assigned, and that we have not executed and will not execute any agreement in conflict herewith.

And we further hereby covenant and agree that we will, at any time, upon request, execute and deliver any and all papers that may be necessary or desirable to perfect the title of said invention or inventions and to such Letters Patent as may be granted therefor, to SAUDI ARAMCO, its successors, assigns, or other legal representatives, and that if SAUDI ARAMCO shall desire to file any non-provisional, divisional, continuation, or continuation-in-part applications or to secure a reexamination or reissue of such Letters Patent, or to file a disclaimer relating thereto, will upon request, sign all papers, make all rightful oaths and do all lawful acts requisite for the filing of such non-provisional, divisional, continuation, or continuation-in-part application, or such application for reissue and the procuring thereof, and for the filing of such disclaimer, without further compensation, but at the expense of said assignee, its successors, or other legal representatives.

And we do further covenant and agree that we will, at any time upon request, communicate to SAUDI ARAMCO, its successors, assigns or other legal representatives, such facts relating to said invention or inventions and Letters Patent or the file history thereof as may be known to me, and testify as to the same in any interference or other litigation when requested so to do, without further compensation, but at the expense of said assignee, its successors, or other legal representatives.

EXECUTED THIS 03 day of July, 2012


YUNLAI YANG

EXECUTED THIS 03 day of July, 2012


YI LUO

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