

## PATENT ASSIGNMENT COVER SHEET

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<b>SUBMISSION TYPE:</b>	NEW ASSIGNMENT
<b>NATURE OF CONVEYANCE:</b>	ASSIGNMENT
<b>CONVEYING PARTY DATA</b>	
<b>Name</b>	<b>Execution Date</b>
HUI-HAI LIU	08/10/2016
BITAO LAI	08/08/2016
JINHONG CHEN	08/08/2016
DANIEL T. GEORGI	08/08/2016
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<b>Street Address:</b>	9009 WEST LOOP SOUTH FREEWAY
<b>Internal Address:</b>	OFFICE 10138
<b>City:</b>	HOUSTON
<b>State/Country:</b>	TEXAS
<b>Postal Code:</b>	77096-1799
<b>PROPERTY NUMBERS Total: 1</b>	
<b>Property Type</b>	<b>Number</b>
<b>Application Number:</b>	15212680
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<b>Fax Number:</b>	
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<b>ATTORNEY DOCKET NUMBER:</b>	004160.010023 (ASC0023)
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<b>SIGNATURE:</b>	/Eleanor L. Tyson/
<b>DATE SIGNED:</b>	10/12/2016
<b>Total Attachments: 5</b>	
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**ASSIGNMENT**

WHEREAS, we, **Hui-Hai LIU**, a citizen of the United States of America, **Bitao LAI**, a citizen of China, **Jinhong CHEN**, a citizen of the United States of America, and **Daniel T. GEORGI**, a citizen of United States of America, are the co-inventors of **METHODS FOR ANALYZING NATURAL GAS FLOW IN SUBTERRANEAN RESERVOIRS**, for which application for United States Letters Patent was filed on **July 18, 2016** as U.S. Patent Application No. **15/212,680**; and

WHEREAS, Aramco Services Company, a corporation of the State of Delaware, and having a principal address of 9009 West Loop South Freeway, Office 10138, Houston, Texas 77096-1799, USA, hereafter "ARAMCO SERVICES", is desirous of acquiring the entire right, title and interest in and to the aforesaid invention 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;

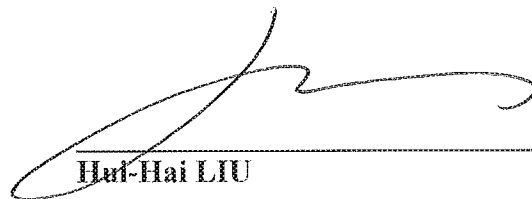
NOW, THEREFORE, for and in consideration of the sum of One Dollar (\$1.00) to me in hand paid by ARAMCO SERVICES and for other good and valuable considerations, the receipt of which is hereby acknowledged, I hereby sell, assign, transfer and set over to ARAMCO SERVICES, all right, title and interest in and to the said invention throughout the world, and said application for U.S. Letters Patent, and any and all divisions, continuations, reexaminations and reissues thereof, and any and all Letters Patent of the United States and foreign countries which may be granted therefor, 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 said Letters Patent of the United States or foreign countries are or may be granted, reexamined or reissued, as fully and entirely as the same would have been held and enjoyed by me if this assignment and sale had not been made.

And I 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 resulting from said application and from any and all divisions, continuations, and reissues thereof, to ARAMCO SERVICES, as assignee of our entire interest, and hereby covenant that I have the full right to convey the entire interest herein assigned, and that I have not executed and will not execute any agreement in conflict herewith.

And I further hereby covenant and agree that I 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 and to such Letters Patent as may be granted therefor, to ARAMCO SERVICES, its successors, assigns, or other legal representatives and that if ARAMCO SERVICES shall desire to file any divisional or continuation 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 divisional or continuation 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 I do further covenant and agree that I will, at any time upon request, communicate to ARAMCO SERVICES, its successors, assigns or other legal representatives, such facts relating to said invention 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 1<sup>0</sup> day of August, 2016.

  
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Hui-Hai LIU

EXECUTED THIS 8 day of August, 2016.



Bitao LAI

EXECUTED THIS 8 day of August, 2016.



Jinhong CHEN

EXECUTED THIS 8 day of August, 2016.

Daniel T. Georji  
Daniel T. GEORGI