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PATENT ASSIGNMENT COVER SHEET

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SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT

CONVEYING PARTY DATA

Name	Execution Date
ZHOU FENG	01/17/2018
NING LI	01/17/2018
HONGLIANG WU	01/17/2018
HUAFENG WANG	01/17/2018
QINGFU FENG	01/17/2018
KEWEN WANG	01/17/2018

RECEIVING PARTY DATA

Name:	PETROCHINA COMPANY LIMITED	
Street Address:	9 DONGZHIMEN NORTH STREET	
Internal Address:	DONGCHENG DISTRICT	
City:	BEIJING	
State/Country:	CHINA	
Postal Code:	100007	

PROPERTY NUMBERS Total: 1

Property Type	Number
Application Number:	15749290

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ATTORNEY DOCKET NUMBER:	GAI15CN2264P-US
NAME OF SUBMITTER:	STEPHEN F. SWINTON, JR.
SIGNATURE:	/Stephen F. Swinton, Jr./
DATE SIGNED:	02/05/2018

Total Attachments: 2 source=GAI15CN2264P-US_Assignment_Executed_31JAN2018#page1.tif source=GAI15CN2264P-US_Assignment_Executed_31JAN2018#page2.tif

PATENT REEL: 044837 FRAME: 0695

ASSIGNMENT

Whereas, we, Zhou Feng, Ning Li, Hongliang Wu, Huafeng Wang, Qingfu Feng and Kewen Wang, Owners of the entire right and interest in the invention entitled:

Title of the Invention: STRATUM COMPONENT OPTIMIZATION DETERMINATION METHOD AND DEVICE

and further identified by the Docket Number provided above in the header of this Assignment, for which a PCT application was filed having:

International Application No. PCT/CN2016/101643 filed October 10, 2016

Whereas, PETROCHINA COMPANY LIMITED, 9 Dongzhimen North Street, Dongcheng District, Beijing, 100007, Republic of China (herein referred to as "ASSIGNEE"), desires to acquire, and we desire to grant to ASSIGNEE, our entire worldwide right, title, and interest in and to the Invention and in and to any and all patent applications and patents directed thereto;

Now, therefore, for good and valuable consideration, the receipt and sufficiency thereof being hereby acknowledged, we Zhou Feng, Ning Li, Hongliang Wu, Huafeng Wang, Qingfu Feng and Kewen Wang, herein referred to ("ASSIGNOR") hereby sell or have sold, assign or have assigned, and otherwise transfer or have transferred to PETROCHINA COMPANY LIMITED (the "ASSIGNEE"), its successors, legal representatives, and assigns, our entire worldwide right, title, and interest in and to the Invention, the aboveidentified United States patent application, and any and all other patent applications and patents for the Invention which may be applied for or granted therefor in the United States and in all foreign countries and jurisdictions, including all divisions, continuations, reissues, reexaminations, renewals, extensions, counterparts, substitutes, and extensions thereof, and all rights of priority resulting from the filing of such applications and granting of such patents. In addition, we hereby authorize and request the Director of the United States Patent and Trademark Office to issue any United States Patent, and foreign patent authorities to issue any foreign patent, granted for the Invention, to ASSIGNEE, its successors, legal representatives, and assigns, our entire worldwide right, title, and interest in and to the same to be held and enjoyed by ASSIGNEE, its successors, legal representatives, and assigns to the full end of the terms for which any and all such patents may be granted, as fully and entirely as would have been held and enjoyed by us had this Assignment not been made; and we agree to execute any and all documents and instruments and perform all lawful acts reasonably related to recording this Assignment or perfecting title to the Invention and all related patents and applications, in ASSIGNEE, its successors, legal representatives, and assigns, whenever requested by ASSIGNEE, its successors, legal representatives, or assigns.

We acknowledge our prior and ongoing obligations to sell, assign, and transfer our rights under this Assignment to ASSIGNEE, and are unaware of any reason why we may not have the full and unencumbered right to sell, assign, and transfer my rights hereby sold, assigned, and transferred, and have not executed, and will not execute, any document or instrument in conflict herewith. This Assignment is governed by the substantive laws of the State of New York, and any disputes will be resolved in a New York state court or federal court sited in New York.

Zhou Feng

Signature:

Date: 2218. 1.17

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PATENT REEL: 044837 FRAME: 0696

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2 Ning Li _____Date: 2018. 1.17. Signature: JER Date: 2018-1.1) Hongliang Wu Signature: Huafeng Wang 王华峰 Date: 218.1.17 Signature:__ Qingfu Feng 泻茶付 _____Date: >018-1.17 Signature:_____ Kewen Wang II2 Date: 2015.1.17 Signature:_

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RECORDED: 02/06/2018