

PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1
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EPAS ID: PAT5164614

SUBMISSION TYPE:	NEW ASSIGNMENT	
NATURE OF CONVEYANCE:	ASSIGNMENT	
CONVEYING PARTY DATA		
	Name	Execution Date
	CAINENG ZOU	09/27/2018
	LIANHUA HOU	09/27/2018
	JINGLI YAO	09/27/2018
	TAO JIANG	09/27/2018
	HAIJUN YANG	09/27/2018
	JINGHONG WANG	09/27/2018
	WENXUE HAN	09/27/2018
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State/Country:	CHINA	
PROPERTY NUMBERS Total: 1		
	Property Type	Number
	Application Number:	16145916
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SIGNATURE:	/Charles N.J. Ruggiero/	
DATE SIGNED:	09/28/2018	

Total Attachments: 5

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**COMBINED DECLARATION AND ASSIGNMENT UNDER 37 C.F.R. §1.63 FOR
UTILITY OR DESIGN PATENT APPLICATION USING AN APPLICATION DATA SHEET**

OGRP Rev. No. A1A/01a

This Declaration and Assignment, when present, are directed to:

Title of Invention: OIL AND GAS ZONE EFFECTIVENESS EVALUATION METHOD
AND APPARATUS

Attorney Docket No.: 0012999USU/2299

☒ The specification of which is attached hereto, or

☒ United States application or PCT international application number
_____ filed on _____

I hereby authorize and request the delegated attorneys or agents or those of the Assignee, if any, to insert above the application number and filing date of the above-identified application when known.

Declaration: In accordance with the requirements under 35 U.S.C §115, as a below named inventor, I hereby declare that:

- The above-identified application was made or authorized to be made by me.
- I have reviewed and understand the contents of the above-identified application, including the claims, as required by 37 C.F.R. §1.63.
- I believe that I am the original inventor when only one inventor is named below or an original joint inventor when more than one inventor is named below of a claimed invention in the above-identified application.
- I am aware of the duty to disclose to the United States Patent and Trademark Office all information known to me to be material to the patentability of the above-identified application as defined in 37 C.F.R. §1.56.
- I hereby acknowledge that any willful false statement made in this declaration is punishable under 18 U.S.C. §1001 by fine or imprisonment of not more than five (5) years, or both.

COMBINED DECLARATION AND ASSIGNMENT UNDER 37 C.F.R. §1.63 (CONTINUED)

Assignment:

- ☒ The above-identified application is not subject to an assignment, or
- ☒ The above-identified application is subject to the following assignment.

Whereas, PetroChina Company Limited, a corporation of
China having a place of
business at 9 Dongzhimen North Street, Dongcheng District, Beijing, P.R. CHINA (the "Assignee"),
desires to acquire, and each undersigned inventor desires to grant and hereby grants to the Assignee, the
entire worldwide right, title, and interest in and to the above-identified application 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, each undersigned inventor hereby sells or has sold, assigns or has assigned, and
otherwise transfers or has transferred to the Assignee, its successors, legal representatives, and assigns,
the entire worldwide right, title, and interest in and to the invention, the above-identified United States
patent application, and any and all other patent applications and patents for the above-identified
application that may be applied for or granted therefore 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, each undersigned inventor hereby authorizes and requests 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 the Assignee, its successors, legal representatives, and
assigns, the entire worldwide right, title, and interest in and to the same to be held and enjoyed by the
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 the
undersigned had this Assignment not been made; and each undersigned inventor agrees to execute any
and all documents and instruments and perform all lawful acts reasonably related to recording this
Assignment or perfecting title to the above-identified application and all related patents and
applications, in the Assignee, its successors, legal representatives, and assigns, whenever requested by
the Assignee, its successors, legal representatives, or assigns.

Each undersigned inventor acknowledges his or her obligations to sell, assign, and transfer the rights
under this Assignment to the Assignee and is unaware of any reason why he or she may not have the full
and unencumbered right to sell, assign, and transfer the rights hereby sold, assigned, and transferred,
and has not executed, and will not execute, any document or instrument in conflict herewith.

COMBINED DECLARATION AND ASSIGNMENT UNDER 37 C.F.R. §1.63 (CONTINUED)

Add Inventor

Inventor Information:

Prefix	Given Name	Middle Name	Family Name	Suffix
	Caineng		Zou	

Signature: Zou Caineng

Date: 2018/9/27

Remove Inventor

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Date: 2018 9.27

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Date: 27/9/2018

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Remove Inventor

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Remove Inventor