

## 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>
LIHONG ZHOU	01/17/2020
XIANZHENG ZHAO	01/17/2020
XIUGANG PU	01/17/2020
WENYA JIANG	01/17/2020
FENGMING JIN	01/17/2020
ZICANG LIU	01/17/2020
QUANSHENG GUAN	01/17/2020
<b>RECEIVING PARTY DATA</b>	
<b>Name:</b>	DAGANG OIL FIELD COMPANY OF CNPC
<b>Street Address:</b>	XINGFU ROAD, DAGANG OILFIELD
<b>Internal Address:</b>	BINHAI DISTRICT
<b>City:</b>	TIANJIN
<b>State/Country:</b>	CHINA
<b>Postal Code:</b>	300280
<b>PROPERTY NUMBERS Total: 1</b>	
<b>Property Type</b>	<b>Number</b>
Application Number:	16791481
<b>CORRESPONDENCE DATA</b>	
<b>Fax Number:</b>	(216)241-0816
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<b>Address Line 1:</b>	CALFEE, HALTER & GRISWOLD LLP
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<b>ATTORNEY DOCKET NUMBER:</b>	35742.04098
<b>NAME OF SUBMITTER:</b>	YIZHOU LIU
<b>SIGNATURE:</b>	/Mary Gillette for YIZHOU LIU/

PATENT

<b>DATE SIGNED:</b>	04/14/2020
<b>Total Attachments: 3</b> source=ASSIGNMENT#page1.tif source=ASSIGNMENT#page2.tif source=ASSIGNMENT#page3.tif	

ASSIGNMENT

This Assignment is made and entered into by and Lihong ZHOU, Xianzheng ZHAO, Xiugang PU, Wenya JIANG, Fengming JIN, Zicang LIU, and Quansheng GUAN (hereinafter "INVENTORS"), and DAGANG OIL FIELD COMPANY OF CNPC, Xingfu Road, Dagang Oilfield, Binhai District, Tianjin 300280 China, (hereinafter referred to as "ASSIGNEE").

Whereas INVENTORS have invented certain inventions described in a United States patent application titled Research Method Of Trajectory Design And On-Site Tracking And Adjustment Of Shale Oil Horizontal Well, US Patent Application No. 16/791,481, filed February 14, 2020, and have executed the patent application therefor;

Whereas, ASSIGNEE desires to acquire the entire right, title and interest in said applications and inventions, and to any United States and foreign patents to be obtained therefor; and

Now, Therefore, for good and valuable consideration, receipt of which is hereby acknowledged:

1. INVENTORS hereby sell, assign, and transfer to ASSIGNEE, its successors and assigns, the entire right, title and interest, so far as concerns the United States and the Territories and Possessions thereof and all foreign countries, in and to the inventions set forth in said applications including the application for United States Letters Patent executed by the INVENTORS, said applications including said application for United States Letters Patent, any and all other applications for Letters Patent on said inventions in the United States and in countries foreign to the United States, including all divisional, renewal, extension reexamination, substitute, continuation, continuation-in-part, reissue, and Convention applications based in whole or in part upon said inventions or upon said applications, and any and all Letters Patent and reissues and extension of Letters Patent granted for said inventions or upon said applications, and every priority right that is or may be predicated upon or arise from said inventions, said applications and said Letters Patent.

2. ASSIGNEE is hereby authorized to file patent applications in any or all countries on any or all said inventions in the name of the INVENTORS or in the name of ASSIGNEE or otherwise as ASSIGNEE may deem advisable, under the International Convention or otherwise.

3. The Commissioner of Patents of the United States of America and the empowered officials of all other governments are hereby authorized to issue or transfer all said Letters Patent to ASSIGNEE in accordance herewith.

4. This Assignment is being made under covenant, not only that full power to make the same is had by the INVENTORS, but also that, at the time of execution of this Assignment,

such assigned right is not encumbered by any grant, license, governmental restriction, or other right heretofore given.

5. The INVENTORS agree that they will do all acts reasonably serving to assure that said inventions, patent applications and Letters Patent shall be held and enjoyed by ASSIGNEE as fully and entirely as the same could have been held and enjoyed by the INVENTORS if this Assignment had not been made, and particularly to execute and deliver to ASSIGNEE all lawful documents including petitions, specifications, oaths, assignments, invention disclaimers, lawful affidavits, and declarations in form and in substance which may be requested by ASSIGNEE, to furnish ASSIGNEE with all facts relating to said inventions or the history thereof and any and all documents, photographs, models, samples or other physical exhibits which may be useful for establishing the facts of conception, disclosure and reduction to practice of said inventions, and to testify in any proceedings relating to said inventions, patent applications and Letters Patent.

6. INVENTORS agree that this Assignment shall be construed in accordance with the laws and courts of Ohio. INVENTORS hereby also agree to submit to the jurisdiction of any Ohio court.

7. INVENTORS acknowledge and understand that the law firm of Calfee, Halter & Griswold LLP and its attorneys represent ASSIGNEE and INVENTORS acknowledge and understand that they are not the client of Calfee, Halter & Griswold, LLP.

8. INVENTORS acknowledge and understand that they have the opportunity to consult with independent legal counsel prior to executing this Assignment.

9. INVENTORS hereby request that ASSIGNEE or its counsel enter or correct the date(s) of execution of the afore-referenced Patent Application(s), and enter or correct the Application Serial Numbers if available, prior to recording this assignment, to have the same effect as if entered prior to execution of this Assignment.

Signature:

Lihong ZHOU

Date

Signature:

Xianzheng ZHAO

Date

Signature:

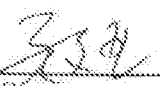


Xiugang PU

Date:

2020.1.17

Signature:



Wenya JIANG

Date:

2020.01.17

Signature:

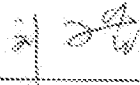


Fengming JIN

Date:

2020.01.17

Signature:

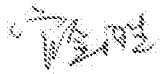


Zicang LIU

Date:

2020.1.17

Signature:



Quansheng GUAN

Date:

2020.01.17