

## 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>
CASEY TIMOTHY LESAR	09/05/2018
HUI ZHOU	09/05/2018
CHESNEE LAE DAVIS	09/11/2018
<b>RECEIVING PARTY DATA</b>	
<b>Name:</b>	HALLIBURTON ENERGY SERVICES, INC.
<b>Street Address:</b>	3000 N. SAM HOUSTON PARKWAY E.
<b>City:</b>	HOUSTON
<b>State/Country:</b>	TEXAS
<b>Postal Code:</b>	77032-3219
<b>PROPERTY NUMBERS Total: 1</b>	
<b>Property Type</b>	<b>Number</b>
<b>Application Number:</b>	16486495
<b>CORRESPONDENCE DATA</b>	
<b>Fax Number:</b>	
<i>Correspondence will be sent to the e-mail address first; if that is unsuccessful, it will be sent using a fax number, if provided; if that is unsuccessful, it will be sent via US Mail.</i>	
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<b>ATTORNEY DOCKET NUMBER:</b>	1560-053202
<b>NAME OF SUBMITTER:</b>	COREY TUMEY
<b>SIGNATURE:</b>	/Corey Tumey/
<b>DATE SIGNED:</b>	08/15/2019
<b>Total Attachments: 4</b>	
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ASSIGNMENT

Whereas, We, Casey Timothy Lesar of Houston, Texas, Hui Zhou of The Woodlands, Texas, and Chesnee Lae Davis of Spring, Texas ("ASSIGNORS"), have invented **LOWERING THE CRYSTALLIZATION TEMPERATURE OF BRINES**, and

Whereas, Halliburton Energy Services, Inc., a Delaware Corporation having a place of business at 3000 N. Sam Houston Parkway E., Houston, Texas 77032-3219, United States of America (sometimes hereinafter called "ASSIGNEE"), is desirous of acquiring an interest therein,

NOW, THEREFORE, for good and valuable consideration, the receipt and sufficiency of which is hereby acknowledged, We do hereby ASSIGN, SELL and CONVEY to said Halliburton Energy Services, Inc., its successors and assigns, the entire right, title and interest throughout the world in and to:

1. Said invention in **LOWERING THE CRYSTALLIZATION TEMPERATURE OF BRINES**,
2. United States application on said invention, Application No. 62/636,718, filed February 28, 2018, entitled **LOWERING THE CRYSTALLIZATION TEMPERATURE OF BRINES**, Halliburton Reference No. 2018-IPM-102069V1 US.
3. Patent Cooperation Treaty international application on said invention, Application No. PCT/US2018/050704, filed September 12, 2018, entitled **LOWERING THE CRYSTALLIZATION TEMPERATURE OF BRINES**, Halliburton Reference No. 2018-IPM-102069U1 PCT (The undersigned hereby grant(s) the firm of Tumey L.L.P. of 5177 Richmond Avenue, Suite 1188, Houston, Texas 77056 the power to insert on this assignment any further identification, including the application number and filing date, which may be necessary or desirable in order to comply with the rules of the United States Patent and Trademark Office for recordation of this document);
3. All applications for patent or like protection on said invention that have now been or may in the future be made by me or my legal representatives, including any continuation, continuation-in-part and any other utility applications that may be based on this invention, whether in the United States of America or in any other country or place anywhere in the world;
4. All patents and like protection that have now been or may in the future be granted on said invention to me or my legal representatives, whether in the United States of America or in any other country or place anywhere in the world;
5. All substitutions for and divisions, continuations, continuations-in-part, renewals, reissues, extensions, and the like of said applications and patents and like grants, including

without limitation, those obtained or permissible under past, present and future laws and statutes;

6. All rights of action on account of past, present and future unauthorized use of said invention and for infringement of said patents and like protection;

7. The right in ASSIGNEE to file in its name applications for patents and like protection for said invention in any country or countries foreign to the United States; and

8. All international rights of priority associated with said invention, applications, patents and like protection and we covenant that we, and our heirs, legal representatives, assigns, administrators, and executors, will, at the expense of ASSIGNEE, its successors and assigns, execute all papers and perform such other acts as may be reasonably necessary to give ASSIGNEE, its successors and assigns, the full benefit of this Assignment.

Executed this 5th day of September, 2018

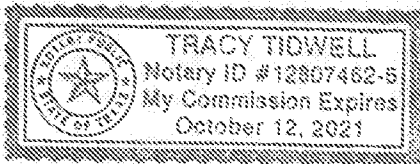


Casey Timothy Lesar

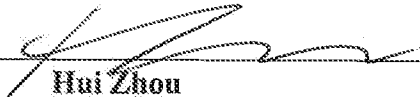
STATE OF Texas )  
 ) ss  
COUNTY OF Harris )

Before me personally appeared said **Casey Timothy Lesar** and acknowledged the foregoing instrument to be his free act and deed this 5th day of September, 2018.

Seal

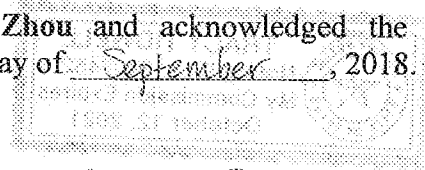
  
(Notary)

Executed this 5<sup>th</sup> day of September, 2018

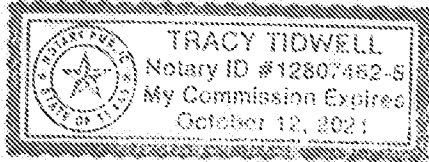
  
\_\_\_\_\_  
Hui Zhou


STATE OF Texas )  
COUNTY OF Harris ) ss

Before me personally appeared said **Hui Zhou** and acknowledged the foregoing instrument to be his free act and deed this 5<sup>th</sup> day of September, 2018.



Seal



  
\_\_\_\_\_  
(Notary)

Executed this 11<sup>th</sup> day of September, 2018

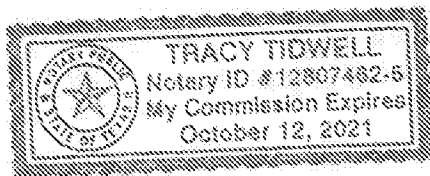
Chesnee Lae Davis

**Chesnee Lae Davis**

STATE OF Texas )  
 ) ss  
COUNTY OF Harris )

Before me personally appeared said **Chesnee Lae Davis** and acknowledged the foregoing instrument to be his free act and deed this 11<sup>th</sup> day of September, 2018.

Seal



Tracy Tidwell

(Notary)

