

PATENT ASSIGNMENT COVER SHEET

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SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT
CONVEYING PARTY DATA	
Name	Execution Date
CASEY LEE COX	03/03/2020
RUSSELL JAMES PADALECKI	03/03/2020
NATHAN TAYLOR CRAWFORD	03/03/2020
KENNETH LEE BORGAN	09/16/2019
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State/Country:	TEXAS
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PROPERTY NUMBERS Total: 1	
Property Type	Number
Application Number:	16809379
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DATE SIGNED:	03/05/2020
Total Attachments: 5	
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ASSIGNMENT

Whereas, We, **Casey Lee Cox** of **Midland, Texas**, **Russell James Padalecki** of **Midland, Texas**, and **Nathan Taylor Crawford** of **Midland, Texas**, ("ASSIGNORS"), have invented **CALCULATING ENERGY BASED NET PRESSURE AND CORRESPONDING DISCHARGE AREA OBSERVED DURING HYDRAULIC STIMULATION PROCESSES**, together with co-inventor **Kenneth Lee Borgen** of **Midland, Texas**, 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 **CALCULATING ENERGY BASED NET PRESSURE AND CORRESPONDING DISCHARGE AREA OBSERVED DURING HYDRAULIC STIMULATION PROCESSES**,
2. United States Patent application on said invention, Application No. 16/809,379, filed March 4, 2020, entitled **CALCULATING ENERGY BASED NET PRESSURE AND CORRESPONDING DISCHARGE AREA OBSERVED DURING HYDRAULIC STIMULATION PROCESSES**, Halliburton Reference No. **2019-IPM-103711U1 US**; (The undersigned hereby grant(s) the firm of C. Tumey Law Group, PLLC. of 1150 Clear Lake City Blvd., Suite 201, Houston, Texas 77062 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;

Halliburton Energy Services, Inc.

Docket Number: 2019-IPM-103711U1
(Assigned by the Law Department)

Date: Method for Calculating Energy Based Net Pressure and Corresponding Discharge Area

Title: Observed During Hydraulic Stimulation Processes

Project #:

COMBINED DECLARATION AND ASSIGNMENT OF ANY PATENT APPLICATIONS RELATING TO THIS INVENTION DISCLOSURE

The content of this disclosure is the property of Halliburton Energy Services, Inc., Landmark Graphics Corp, or Multi-Chem LLC (referred to at points herein as ASSIGNEE or collectively referred to herein as Halliburton) and the inventor(s) hereby agrees to and does hereby assign all right, title, and interest to Halliburton in any intellectual property contained herein, including but not limited to copyright, trade secrets and other confidential information, and patent-eligible subject matter by virtue of the formal Assignment and Declaration contained in this Invention Disclosure.

As a below named inventor, I hereby declare that the invention described in this Invention Disclosure was made or authorized to be made by me and that I believe that I am the original inventor or an original joint inventor of a claimed invention in an application resulting from this Invention Disclosure.

NOW, THEREFORE, in consideration of other good and valuable consideration acknowledged by the Assignors to have been received in full from the Assignees, I agree to and hereby assign and transfer unto said ASSIGNEE, the full and exclusive right to the said invention in the United States and its territorial possessions and in all foreign countries (including the right to claim priority under the terms of the International Convention and other relevant International Treaties and Arrangements from the aforesaid application) and the entire right, title and interest in and to any and all Letters Patent which may be granted therefor in the United States and its territorial possessions and in any and all foreign countries and in and to any and all divisions, reissues, continuations, substitutions and renewals thereof. I hereby authorize and request the Patent Office Officials in the United States and its territorial possessions and any and all foreign countries to issue any and all of said Letters Patent, when granted, to said ASSIGNEE as the assignee of my entire right, title and interest in and to the same, for the sole use and behoove of said ASSIGNEE, its successors and assigns, to the full end of the term for which said Letters Patent may be granted, as fully and entirely as the same would have been held by me had this Assignment not been made. Further, I agree to cooperate with the Assignee to enable the Assignee to enjoy to the fullest extent the right, title and interest to the invention herein conveyed, such cooperating including prompt production of pertinent facts and documents, execution of petitions, oaths, specifications, declarations or other papers and assistance for perfecting in the Assignee the right, title and interest herein conveyed, for prosecuting any applications for Letters Patent, and for legal proceedings involving the invention and any application therefor, including without limitation, opposition proceedings, cancellation proceedings, priority contests, public use proceedings, infringement actions and court actions; provided, however, that the expense incurred by the Assignors in providing such cooperation shall be paid for by the Assignee.

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.

2nd Inventor

Signed (Inventor Name)

Date

9-16-2019