504554826 09/19/2017

PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1 Stylesheet Version v1.2 EPAS ID: PAT4601535

SUBMISSION TYPE:		NEW ASSIGNMENT		
NATURE OF CONVEYANCE: RELEA		RELEASE OF SECURITY IN	ITEREST	
CONVEYING PARTY	/ DATA			
		Name	Execution Date	
WELLS FARGO BAN	IK, NATIONA	AL ASSOCIATION	09/19/2017	
RECEIVING PARTY Name:		Y OILFIELD SERVICES LLC		
RECEIVING PARTY	DATA			
Street Address:		950 17TH STREET, SUITE 2400		
City:		DENVER		
State/Country:	COLOR	COLORADO		
Postal Code:	80202			
Name:	LOS AC	LOS ACQUISITION CO I LLC		
Street Address:	950 17T	950 17TH STREET, SUITE 2400		
City:	DENVE	DENVER		
		COLORADO		
State/Country:	COLOR	ADU		

PROPERTY NUMBERS Total: 13

Property Type	Number
Patent Number:	7749946
Patent Number:	8193127
Patent Number:	8347965
Patent Number:	7559373
Patent Number:	8061427
Patent Number:	9228424
Application Number:	14720277
Application Number:	62133065
Application Number:	62151737
Application Number:	62371678
Application Number:	14106194
Application Number:	14158167
Application Number:	14090928

CORRESPONDENCE DATA

Fax Number:

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.

Phone:	3128637141
Email: kristen.lange@goldbergkohn.com	
Correspondent Name:	KRISTEN N. LANGE, PARALEGAL
Address Line 1:	GOLDBERG KOHN, LTD. 55 E. MONROE ST.
Address Line 2:	SUITE 3300
Address Line 4:	CHICAGO, ILLINOIS 60603

ATTORNEY DOCKET NUMBER:	1989.526
NAME OF SUBMITTER:	KRISTEN N. LANGE
SIGNATURE:	/kristenlange/
DATE SIGNED:	09/19/2017
	This document serves as an Oath/Declaration (37 CFR 1.63).

Total Attachments: 7

source=Release of Security Interests in Patents and Trademarks (Liberty)#page1.tif source=Release of Security Interests in Patents and Trademarks (Liberty)#page2.tif source=Release of Security Interests in Patents and Trademarks (Liberty)#page3.tif source=Release of Security Interests in Patents and Trademarks (Liberty)#page4.tif source=Release of Security Interests in Patents and Trademarks (Liberty)#page5.tif source=Release of Security Interests in Patents and Trademarks (Liberty)#page6.tif source=Release of Security Interests in Patents and Trademarks (Liberty)#page6.tif

RELEASE OF SECURITY INTEREST IN PATENTS AND TRADEMARKS

This RELEASE OF PATENTS AND TRADEMARKS SECURITY INTEREST ("Release") is made and effective as of September 19, 2017 and granted by Wells Fargo Bank, National Association, a national banking association, as administrative agent (in such capacity, the "<u>Administrative Agent</u>") under the Credit Agreement referred to below (the "<u>Lenders</u>"), in favor of Liberty Oilfield Services LLC, a Delaware limited liability company, (the "<u>Original Borrower</u>"), LOS Acquisition CO I LLC, a Delaware limited liability company, (the "<u>Designated Borrower</u>" and together with the Original Borrower, the "<u>Borrowers</u>" and individually, a "<u>Borrower</u>" and together with the Borrowers party hereto from time to time (collectively with the Borrowers, the "<u>Grantors</u>" and individually, a "<u>Grantor</u>") and their successors, assigns and legal representatives.

WHEREAS, pursuant to that certain Credit Agreement dated as of October 21, 2013 (the "<u>Credit Agreement</u>") among the Original Borrower, the Administrative Agent and the lenders party thereto, the Grantors executed and delivered to the Administrative Agent (i) that certain Amended and Restated Pledge and Security Agreement, by and among the Grantors and the Administrative Agent dated as of June 15, 2017 (the "<u>Pledge and Security Agreement</u>") and (ii) that certain Patent and Trademark Security Agreement by and among the Grantors and the Administrative Agent dated as of June 15, 2017 (the "<u>Patent and Trademark Security Agreement</u>"); <u>Agreement</u>" and, together with the Pledge and Security Agreement, the "<u>Security Agreements</u>");

WHEREAS, pursuant to the Patent and Trademark Security Agreement, each Grantor pledged and granted to the Administrative Agent for the ratable benefit of the Lenders a security interest in and to all of the right, title and interest of such Grantor in, to and under the Patent and Trademark Collateral (as defined below);

WHEREAS, the Patent and Trademark Security Agreement was recorded with the United States Patent and Trademark Office at Reel 042738, Frame 0675 on June 16, 2017 and Reel 6086, Frame 0015 June 16, 2017;

WHEREAS, Administrative Agent desires to release its security interest in and lien on the Patent and Trademark Collateral (as defined below), including but not limited to, the patents and patent applications and trademarks and trademark applications set forth on <u>Schedule I</u> hereto;

NOW, THEREFORE, for good and valuable consideration, the receipt and sufficiency of which is hereby acknowledged, Administrative Agent hereby states as follows:

1. <u>Definition</u>. The term "Patent and Trademark Collateral", as used herein, shall mean all of each Grantor's right, title and interest in the following (collectively, the "<u>Patent and Trademark Collateral</u>"

a. all of such Grantor's right, title and interest in and to (i) all inventions and discoveries, whether patentable or not, all letters patent and applications for letters patent throughout the world, including those patents and patent applications referred to in <u>Schedule I</u> hereto, (ii) all reissues, divisions, continuations, continuations in part, extensions, renewals and reexaminations

Schedules to

Release of Security Interest in Patents and Trademarks

of any of the items described in clause (i), (iii) all patent licenses, and other agreements providing any Grantor with the right to use any items of the type referred to in clauses (i) and (ii) above, and (iv) all proceeds of, and rights associated with, the foregoing (including licenses, royalties income, payments, claims, damages and proceeds of infringement suits), the right to sue third parties for past, present or future infringements of any patent or patent application, and for breach or enforcement of any patent license; and

b. all of such Grantor's right, title and interest in and to (i) (A) all trademarks, trade names, corporate names, company names, business names, fictitious business names, trade styles, service marks, certification marks, collective marks, logos and other source or business identifiers, and all goodwill of the business associated therewith, now existing or hereafter adopted or acquired, including those trademarks referred to in Schedule I hereto, whether currently in use or not, all registrations and recordings thereof and all applications in connection therewith, whether pending or in preparation for filing, including registrations, recordings and applications in the United States Patent and Trademark Office or in any office or agency of the United States of America, or any State thereof or any other country or political subdivision thereof or otherwise, and all common-law rights relating to the foregoing, and (B) the right to obtain all reissues, extensions or renewals of the foregoing (collectively referred to as the "Trademarks" and each, a "Trademark"), (ii) all Trademark licenses for the grant by or to any Grantor of any right to use any Trademark, (iii) all of the goodwill of the business connected with the use of, and symbolized by the items described in, clause (i), and to the extent applicable clause (ii), (iv) the right to sue third parties for past, present and future infringements of any Trademark Collateral described in clause (i) and, to the extent applicable, clause (ii), and (v) all Proceeds of, and rights associated with, the foregoing, (including licenses, royalties, income, payments, claims, damages and proceeds of infringement suits), the right to sue third parties for past, present or future infringement or dilution of any Trademark, Trademark registration or Trademark license, or for any injury to the goodwill associated with the use of any such Trademark or for breach or enforcement of any Trademark license and all rights corresponding thereto throughout the world.

2. <u>Release of Security Interest</u>. Administrative Agent, on behalf of itself and the Lenders, their successors, legal representatives and assigns, hereby terminates the Patent and Trademark Security Agreement and terminates, releases and discharges any and all security interest in and lien on the Patent and Trademark Collateral hereto and reassigns to each Grantor all right, title and interest it may have in, to and under the Patent and Trademark Collateral.

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Executed to be effective as of the <u>19th</u> day of September, 2017.

WELLS FARGO BANK, NATIONAL ASSOCIATION, as Administrative Agent By:

Name: Corbin M. Womac Title: Director

sultan.		
State of	12445	§.
	3 1	
County of	<u>(``\&r(;)</u>	Ş

This instrument was acknowledged before me on this 151 day of September, 2017, by Corbin M. Womac as Director of Wells Fargo Bank, National Association, a national banking association, on behalf of said entity.

AUU

Notary Public in and for

LOUISE FRANCES ZARRO Notary Public, State of Texas Comm Expires 01.17.2021 Notary 30 251701

The State of _____XAS LOUISE ZARRO Name:

My Commission Expires: 01 17 202

Schedules to Release of Security Interest in Patents and Trademarks

SCHEDULES:

Schedule I Item A- Patent Collateral

Item B-Trademark Collateral

Schedules to Release of Security Interest in Patents and Trademarks

Schedule I

<u>Item A – Patent Collateral</u>

Issued Patents

Technology	Jurisdiction	Owner	Application No.	Patent No.	Filing Date	Grant Date
Crosslinking Composition for Fracturing Fluids	Canada	LOS Acquisition Co I LLC	2,598,147	2,598,147	8/20/07	4/2/13
Crosslinking Composition for Fracturing Fluids	Canada	LOS Acquisition Co I LLC	2,802,841 (division of 2,598,147)	2,802,841	8/20/07	5/21/03
Crosslinking Composition for Fracturing Fluids	US	LOS Acquisition Co I LLC	11/841,401	7,749,946	8/20/07	7/6/10
Low Residue Fluid Fracturing System and Method of Use	Canada	LOS Acquisition Co I LLC	2,652,489	2,652,489	2/4/09	6/3/14
Low Residue Fluid Fracturing System and Method of Use	US	LOS Acquisition Co I LLC	12/365,586	8,193,127	2/4/09	6/5/12
Apparatus and Method for Creating Pressure Pulses in a Wellbore (Shockfrac)	Canada	LOS Acquisition Co I LLC	2,689,038	2,689,038	12/23/09	9/13/11
Apparatus and Method for Creating Pressure Pulses in a Wellbore (Shockfrac)	US	LOS Acquisition Co I LLC	12/646,826	8,347,965	12/23/09	1/8/13
Well Product Recovery Process (Cyclefrac)	Canada	LOS Acquisition Co I LLC and Fairborne Energy Ltd.	2,517,497	2,517,497	8/29/05	7/15/08
Process for Fracturing a Subterranean Formation (Cyclefrac)	US	LOS Acquisition Co I LLC and Fairborne Energy Ltd.	11/421,030	7,559,373	5/30/06	7/14/09
Well Product Recovery Process (Cyclespal)	Canada	LOS Acquisition Co I LLC	2,517,494	2,517,494	8/29/05	3/9/10
Well Product Recovery Process (Cyclespal)	US	LOS Acquisition Co I LLC	11/421,034	8,061,427	5/30/06	11/22/11
Method of Treating the Near- Wellbore Zone of	US	LOS Acquisition Co I LLC	13/149,558	9,228,424	5/31/11	1/5/16

Pending Patent Applications

Technology	Jurisdiction	Owner	Application No.	Filing Date
Thermo-Gas- Generating Systems and	Canada	LOS Acquisition	2834374	11/26/13
Methods for Oil and Gas Well Stimulation		Co I LLC		
Method of Treating the Near-Wellbore	Canada	LOS Acquisition	2,744,556	6/27/11
Zone of the Reservoir		CoILLC		
Hydrocarbon Stimulation by Energetic	US	LOS Acquisition	14/720,277	5/22/15
Chemistry		CoILLC	US20150337638	
Hydrocarbon Stimulation by Energetic	Canada	LOS Acquisition	2892343	5/22/15
Chemistry		CoILLC		
Method for chemically controlling delay	US	LOS Acquisition	62/133,065	3/13/15
time for breaking polymers (Friction		ColLLC		
Reducer Breaker)				
Boron Sequestration	US	LOS Acquisition	62/151,737	4/23/15
		CoILLC		
Reduced Noise Hydraulic Fracturing	US	LOS Acquisition	62371678	3/13/15
System		ColLLC		
Surfactant System as a Self-Diverted Acid	CA	LOS Acquisition	2,836,221	
for Well Stimulation		Co I LLĈ		
Apparatus and Method for Continuously	CA	LOS Acquisition	2,839,611	
Mixing Fluids Using Dry Additives		Co I LLC		

Abandoned Patent Applications

Technology	Jurisdiction	Owner	Application No.
Well Product Recovery Process	Canada	LOS Acquisition	2,518,692
		CoILLC	
Surfactant System as a Self-Diverted Acid	US	LOS Acquisition	14/106,194
for Well Stimulation		ColLLC	
Apparatus and Method for Continuously	US	LOS Acquisition	14/158,167
Mixing Fluids Using Dry Additives		ColLLC	
Thermo-Gas- Generating Systems and	US	LOS Acquisition	14/090,928
Methods for Oil and Gas Well		CoILLC	

Patent Applications in Preparation

None.

¹ Issued Patent

Item B – Trademark Collateral

Trademarks, Service Marks, Trademark Licenses

Credit Party	Jurisdiction	Trademark	Application/Registration Number
Liberty Oilfield Services LLC	US	Liberty Oilfield Services	87480891
Liberty Oilfield Services LLC	US	Liberty	87480903
Liberty Oilfield Services LLC	US	L in our signature circle, black and white	87481307
Liberty Oilfield Services LLC	US	L in our signature circle, color	87481362
Liberty Oilfield Services LLC	US	Liberty Quiet Fleet	87480720
Liberty Oilfield Services LLC	US	Liberty Quiet	87480835
Liberty Oilfield Services LLC	US	Quiet Fleet	87480770
Liberty Oilfield Services LLC	US	Liberty Spirit	87480999
LOS Acquisition Co I LLC	СА	Shockfrac	1463937
LOS Acquisition Co I LLC	US	Shockfrac	77902727/4107221
LOS Acquisition Co I LLC	СА	CYCLEFRAC	1253386
LOS Acquisition Co I LLC	СА	SANSPAL	1253387

Schedules to Release of Security Interest in Patents and Trademarks

> PATENT REEL: 043631 FRAME: 0029

RECORDED: 09/19/2017