

TRADEMARK ASSIGNMENT COVER SHEET

Electronic Version v1.1
 Stylesheet Version v1.2

ETAS ID: TM374576

SUBMISSION TYPE:	NEW ASSIGNMENT		
NATURE OF CONVEYANCE:	SECURITY INTEREST		
CONVEYING PARTY DATA			
Name	Formerly	Execution Date	Entity Type
H.B. Rentals, L.C.		02/22/2016	LIMITED LIABILITY COMPANY: LOUISIANA
Superior Energy Services-North America Services, Inc.		02/22/2016	CORPORATION: DELAWARE
Superior Energy Services, L.L.C.		02/22/2016	LIMITED LIABILITY COMPANY: LOUISIANA
Warrior Energy Services Corporation		02/22/2016	CORPORATION: DELAWARE
Workstrings International, L.L.C.		02/22/2016	LIMITED LIABILITY COMPANY: LOUISIANA
Wild Well Control, Inc.		02/22/2016	CORPORATION: TEXAS
RECEIVING PARTY DATA			
Name:	JPMORGAN CHASE BANK, N.A. as Administrative Agent		
Street Address:	10 S. Dearborn		
Internal Address:	7th Floor		
City:	Chicago		
State/Country:	ILLINOIS		
Postal Code:	60603		
Entity Type:	a national banking association: UNITED STATES		
PROPERTY NUMBERS Total: 23			
Property Type	Number	Word Mark	
Registration Number:	4727810	COMPLETE TRAK	
Registration Number:	4554338	SUPERIOR ENERGY SERVICES	
Registration Number:	2171374	AMBASOL	
Registration Number:	4110994	BOBCAT PRESSURE CONTROL	
Registration Number:	4724719	RISING STAR SERVICES	
Registration Number:	4724720	RISING STAR SERVICES	
Registration Number:	2899147	X-TEND-A-PERF	
Registration Number:	3642711	FASTR	
Registration Number:	4039921	WORKSTRINGS ALASKA	

CH \$590.00 4727810

Property Type	Number	Word Mark
Registration Number:	3847077	WORKSTRINGS INTERNATIONAL
Registration Number:	3744289	WORKSTRINGS INTERNATIONAL, YOUR FIRST CH
Registration Number:	4265212	BTI FLOWBACK & WELL TESTING
Registration Number:	4687201	WELLCONTAINED
Registration Number:	3720557	WILD WELL CONTROL
Registration Number:	3833289	WILD WELL CONTROL
Registration Number:	4667242	WW
Serial Number:	86723667	YOUR PRODUCTIVITY STARTS HERE
Serial Number:	86615229	SPN
Serial Number:	86615231	SPN
Serial Number:	85875738	COMPPRO
Serial Number:	86269705	UF COLLAR
Serial Number:	86269720	UF COLLAR
Serial Number:	86634766	WW REACT RESPONSE APP

CORRESPONDENCE DATA

Fax Number: 6502515002

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: 6502515027

Email: jnull@stblaw.com

Correspondent Name: Marcela Robledo

Address Line 1: 2475 Hanover Street

Address Line 4: Palo Alto, CALIFORNIA 94304

ATTORNEY DOCKET NUMBER:	509265/1645
NAME OF SUBMITTER:	J. Jason Mull
SIGNATURE:	/J. Jason Mull/
DATE SIGNED:	02/25/2016

Total Attachments: 16

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**SECURITY AGREEMENT
(Intellectual Property)**

THIS **SECURITY AGREEMENT** (Intellectual Property) (this "Agreement"), dated as of February 22, 2016 is by H.B. Rentals, L.C., a Louisiana limited liability company, Integrated Production Services, Inc., a Delaware corporation, Superior Energy Services-North America Services, Inc., a Delaware corporation, Superior Energy Services, L.L.C., a Louisiana limited liability company, Warrior Energy Services Corporation, a Delaware corporation, Workstrings International, L.L.C., a Louisiana limited liability company and Wild Well Control, Inc., a Texas corporation (the foregoing entities collectively referred to as "Pledgors") in favor of JPMORGAN CHASE BANK, N.A. as Administrative Agent (the "Administrative Agent") for the benefit of the Secured Parties under the Credit Agreement referred to below.

RECITALS

A. Superior Energy Services, Inc. (the "Parent"), SESI, L.L.C. (the "Borrower"), the Administrative Agent and certain other Lenders are parties to a certain Fourth Amended and Restated Credit Agreement dated as of February 22, 2016 (as same may be amended, supplemented or otherwise modified from time to time, the "Credit Agreement"), providing for extensions of credit to be made by the Lenders to the Borrower.

B. The obligations of the Borrower under the Credit Agreement are to be secured by the Pledgors, as provided under the Credit Agreement.

C. Pledgors are using the patents, trademarks and/or service marks, and copyrights and are the owners of the U.S. patents, patent applications, copyrights, copyright applications, trademark registrations and trademark applications which are listed on Exhibit A attached hereto (collectively the "Intellectual Property").

D. Pursuant to a Security Agreement dated of even date herewith between the Borrower, Pledgors and other Subsidiaries of Borrower and the Administrative Agent (as same may be amended, supplemented or otherwise modified from time to time, the "Security Agreement"), the Pledgors have granted the Administrative Agent, for the ratable benefit of the Lenders, a security interest in the Intellectual Property and in all proceeds relating to and deriving from the Intellectual Property on the terms and conditions set forth in the Security Agreement.

E. The Credit Agreement requires that the Pledgors shall execute and deliver this Agreement for purposes of filing with the United States Patent and Trademark Office or the United States Copyright Office, as applicable.

F. In consideration of the financial and other support that the Borrower has provided, and such financial and other support as the Borrower may in the future provide, to the other Pledgors, and in order to induce the Lenders and the Administrative Agent to enter into the Credit Agreement, and the Lenders and their Affiliates to enter into one or more Rate Management Transactions and/or transactions in respect of Specified Cash Management Obligations with the Borrower and its Subsidiaries, the Pledgors are willing to guarantee the Secured Obligations of the Borrower and its Subsidiaries under the Credit Agreement.

NOW, THEREFORE, in consideration of the premises and to induce the Administrative Agent and the Lenders to enter into the Credit Agreement and to induce the Lenders to make their respective

extensions of credit to the Borrower thereunder, the Pledgors hereby agree with the Administrative Agent, for the ratable benefit of the Secured Parties, as follows:

1. All capitalized terms used herein and not otherwise defined shall have the meanings assigned to such terms in the Credit Agreement.

2. The Pledgors hereby grant to the Administrative Agent for the ratable benefit of the Secured Parties on the terms and conditions contained in the Security Agreement, which are incorporated herein and made a part hereof, and as additional security for the Subsidiary guarantees and the payment and performance by the Borrower of the Secured Obligations, a security interest in each of the Pledgor's respective right, title and interest in, to and under the Intellectual Property and in all proceeds deriving from and relating to the Intellectual Property, including, without limitation, royalties and other payments due thereon or in connection therewith; provided, however, the amount of the Obligations that will be Secured Obligations secured by the Collateral (as defined in the Credit Agreement) will be limited to the maximum principal amount permitted to be secured under the Senior Notes without triggering the equal and ratable provisions thereof. On any date, if the Obligations or any portion thereof which are not then secured by the Collateral (as defined in the Credit Agreement) may become so secured pursuant to the terms of the Senior Notes without triggering the equal and ratable provisions thereof, such Obligations or portion thereof, as applicable, shall automatically be Secured Obligations in accordance with the terms of the Credit Agreement and the other Loan Documents.

3. The Pledgors hereby acknowledge and affirm that the rights and remedies of the Administrative Agent and the Secured Parties with respect to the security interest in the Intellectual Property granted hereby are more fully set forth in the Credit Agreement and the Security Agreement, and that in the event of any conflict between the terms of this Agreement and the terms of the Security Agreement, the terms of the Security Agreement shall govern.

4. The Pledgors shall take such commercially reasonable action, under both statutory and common law, which may be necessary or useful to maintain title to the Intellectual Property (but the Pledgors have and may continue to license the Intellectual Property in the ordinary course of business) and to maintain and/or defend the Intellectual Property, including, without limitation, bringing actions against infringement of any or all of the Intellectual Property to the extent commercially reasonable.

5. The provisions of Section 10.11 of the Credit Agreement are incorporated herein, *mutatis mutandis*.

6. This Agreement shall be binding upon the Pledgors, the Administrative Agent and the Lenders and their respective successors and assigns, except that the Pledgors shall not have the right to assign their rights or delegate their obligations under this Agreement or any interest herein, without the prior written consent of the Administrative Agent. Upon the full execution of the Credit Agreement, this Agreement shall be deemed accepted and agreed to by the Administrative Agent on behalf of the Lenders.

7. This Agreement may not be amended or modified except with the written consent of the Administrative Agent with the concurrence or at the direction of the Lenders required under Section 9.12 of the Credit Agreement and then only to the extent in such writing specifically set forth.

8. The Pledgors will provide any additional documentation to support or confirm the security interest created under this Agreement.

9. This Agreement and the rights and obligations of the parties hereto shall be governed by, and construed and interpreted in accordance with, the law of the State of New York.

[Signature Page Follows]

IN WITNESS WHEREOF, the Pledgors have executed this Agreement as of the date first above written.

PLEDGOR:

SUPERIOR ENERGY SERVICES, L.L.C.

By: 

Name: Robert S. Taylor

Title: Executive Vice President, Chief Financial Officer
and Treasurer

Signature Page

SESI, L.L.C. – Security Agreement (Intellectual Property)

TRADEMARK
REEL: 005739 FRAME: 0702

SUPERIOR ENERGY SERVICES-NORTH AMERICA
SERVICES, INC.
H.B. RENTALS, L.C.
INTEGRATED PRODUCTION SERVICES, INC.
WARRIOR ENERGY SERVICES CORPORATION
WILD WELL CONTROL, INC.
WORKSTRINGS INTERNATIONAL, L.L.C.

By: 

Name: Robert S. Taylor

Title: Vice President and Treasurer

Signature Page

SESI, L.L.C. – Security Agreement (Intellectual Property)

TRADEMARK
REEL: 005739 FRAME: 0703

EXHIBIT A
PATENTS, COPYRIGHTS, TRADEMARKS

Trademarks

H.B. Rentals, L.C.

Trademark	Case Number Country	SubCase Case Type	Status Classes	Application Number/Date	Registration Number/Date
YOUR PRODUCTIVITY STARTS HERE	S11192 United States of America	00 PRI	Pending NA Int.	86/723,667 13-Aug-2015	

Superior Energy Services-North America Services, Inc.

Trademark	Case Number Country	SubCase Case Type	Status Classes	Application Number/Date	Registration Number/Date
COMPLETE TRAK	S11161 United States of America	00 ORD	Other firm 35 Int., 37 Int., 39 Int., 40 Int., 42 Int.	76/707,770 31-May-2011	4,727,810 28-Apr-2015

Superior Energy Services, L.L.C.

Trademark	Case Number Country	SubCase Case Type	Status Classes	Application Number/Date	Registration Number/Date
SPN	T11145 United States of America	00 PRI	Published 37 Int., 39 Int., 40 Int.	86/615,229 30-Apr-2015	
SPN	T11146 United States of America	00 PRI	Published 37 Int., 42 Int.	86/615,231 30-Apr-2015	
SUPERIOR ENERGY SERVICES	S11175 United States of America	00 PRI	Registered 37 Int.	85/885,042 25-Mar-2013	4,554,338 24-Jun-2014
AMBASOL	S11155 United States of America	00 ORD	Registered 01 Int.	75/317,782 01-Jul-1997	2,171,374 07-Jul-1998
CompPro	S11174 United States of America	00 PRI	Published 07 Int.	85/875,738 14-Mar-2013	

Warrior Energy Services Corporation

Trademark	Case Number Country	SubCase Case Type	Status Classes	Application Number/Date	Registration Number/Date
BOBCAT PRESSURE CONTROL	S11159 United States of America	00 ORD	Registered 37 Int., 40 Int., 45 Int.	85/222,462 20-Jan-2011	4,110,994 13-Mar-2012
RISING STAR SERVICES	S11180 United States of	00 PRI	Registered 37 Int., 40 Int., 42	86/122,377 19-Nov-2013	4,724,719 21-Apr-2015

Trademark	Case Number Country	SubCase Case Type	Status Classes	Application Number/Date	Registration Number/Date
	America		Int.		
RISING STAR SERVICES	S11181 United States of America	00 PRI	Registered 37 Int., 40 Int., 42 Int.	86/122,379 19-Nov-2013	4,724,720 21-Apr-2015
X-TEND-A- PERF	126006 United States of America	00 ORD	Registered 37 Int.	76/555,400 30-Oct-2003	2,899,147 02-Nov-2004

Workstrings International, L.L.C.

Trademark	Case Number Country	SubCase Case Type	Status Classes	Application Number/Date	Registration Number/Date
FASTR	076807 United States of America	00 ORD	Registered 07 Int.	77/603,508 29-Oct-2008	3,642,711 23-Jun-2009
UF Collar	T11135 United States of America	00 PRI	Published 06 Int.	86/269,705 02-May-2014	
UF Collar (logo)	T11135 United States of America	01 PRI	Published 06 Int.	86/269,720 02-May-2014	
WORKSTRINGS ALASKA	S11156 United States of America	00 ORD	Registered 37 Int.	85/026,391 29-Apr-2010	4,039,921 11-Oct-2011
WORKSTRINGS INTERNATION AL	S11157 United States of America	00 ORD	Registered 37 Int.	77/765,377 22-Jun-2009	3,847,077 14-Sep-2010
WORKSTRINGS INTERNATION AL...and design	S11163 United States of America	00 ORD	Registered 37 Int.	77/765,407 22-Jun-2009	3,744,289 02-Feb-2010

Wild Well Control, Inc.

Trademark	Case Number Country	SubCase Case Type	Status Classes	Application Number/Date	Registration Number/Date
BTI FLOWBACK & WELL TESTING and design	S11164 United States of America	00 ORD	Other firm 37 Int., 40 Int., 42 Int.	85/319,440 12-May-2011	4,265,212 25-Dec-2012
WELLCONTAIN ED	T11124 United States of America	00 PRI	Registered 37 Int., 40 Int., 41 Int., 42 Int.	86/189,813 10-Feb-2014	4,687,201 17-Feb-2015
WILD WELL CONTROL	W11158 United States of America	00 ORD	Registered 37 Int., 42 Int., 45 Int.	77/350,943 13-Dec-2007	3,720,557 08-Dec-2009
WILD WELL CONTROL and design	T11166 United States of America	00 ORD	Registered 37 Int., 42 Int., 45 Int.	77/350,351 12-Dec-2007	3,833,289 17-Aug-2010

Trademark	Case Number Country	SubCase Case Type	Status Classes	Application Number/Date	Registration Number/Date
WW FLAMES design	W11131 United States of America	00 PRI	Registered 37 Int., 42 Int., 45 Int.	86/295,900 30-May-2014	4,667,242 06-Jan-2015
WW REACT RESPONSE APP design	W11147 United States of America	00 PRI	Pending 09 Int., 42 Int.	86/634,766 19-May-2015	

Patents

Integrated Production Services, Inc.

Case Number Country	SubCase	Case Type	Application Filing Date	Publication Publication Date	Patent Number Issue Date	Status Expiration Date
126006 United States of America Title: Ball Plunger Lift System for High Deviated Wellbores	01	ORD	14/702,653 01-May-2015	20150322753 12-Nov-2015		Published
OFIPS-01 United States of America Title: PAD TYPE PLUNGER	00	PRI	11/434,740 16-May-2006	20070267189 22-Nov-2007	7,448,442 11-Nov-2008	Granted 16-May-2026
OFIPS-02 United States of America Title: PLUNGER LIFT WITH MULTIPART PISTON AND METHOD OF USING THE SAME	00	PRI	09/312,737 14-May-1999		6,209,637 03-Apr-2001	Granted 14-May-2019
OFIPS-03 United States of America Title: PLUNGER LIFT WITH MULTIPART PISTON	00	PRI	09/630,255 01-Aug-2000		6,467,541 22-Oct-2002	Granted 01-Aug-2020
SMI-01 United States of America Title: DIFFERENTIAL PRESSURE CONTROLLER	01	ORD	10/298,499 18-Nov-2002	20030145986 07-Aug-2003	6,883,606 26-Apr-2005	Granted 12-Mar-2023

Superior Energy Services, L.L.C.

Case Number Country	SubCase	Case Type	Application Filing Date	Publication Publication Date	Patent Number Issue Date	Status Expiration Date
12086-11 United States of America Title: FLOW CONTROL DEVICE	01	PCT	12/990,470 04-Dec-2010	2011/0067878 24-Mar-2011	8,607,873 17-Dec-2013	Other Firm 22-Oct-2029
12086-6 United States of America Title: Reactive Stimulation of Oil and Gas Wells	02	CIP	11/160,397 22-Jun-2005		7,165,614 23-Jan-2007	Granted 12-Sep-2023
12086-7 United States of America Title: Well Stimulation Using Reaction Agents Outside the Casing	02	CON	12/888,726 23-Sep-2010		8,127,832 06-Mar-2012	Granted 18-Sep-2027

Case Number Country	SubCase	Case Type	Application Filing Date	Publication Publication Date	Patent Number Issue Date	Status Expiration Date
S11112 United States of America Title: Single Trip Horizontal Gravel Pack and Stimulation System and Method	00	ORD	10/095,182 11-Mar-2002	20030037925A1 27-Feb-2003	7,017,664 28-Mar-2006	Granted 04-Mar-2023
S11112 United States of America Title: Single Trip Horizontal Gravel Pack and Stimulation System and Method	01	CIP	11/348,275 06-Feb-2006	20060231253A1 19-Oct-2006	7,331,388 19-Feb-2008	Granted 21-Aug-2022
S11112 United States of America Title: Single Trip Horizontal Gravel Pack and Stimulation System and Method	02	CON	11/390,226 27-Mar-2006	20060162927A1 27-Jul-2006	7,210,527 01-May-2007	Granted 11-Mar-2022
S11112 United States of America Title: Single Trip Horizontal Gravel Pack and Stimulation System and Method	03	CON	11/691,831 27-Mar-2007	20070187095A1 16-Aug-2007	7,472,750 06-Jan-2009	Granted 27-Mar-2026
S11113 United States of America Title: Separable One-Trip Perforation and Gravel Pack System and Method	00	PRI	09/467,363 20-Dec-1999		6,206,100 27-Mar-2001	Granted 20-Dec-2019
S11113 United States of America Title: Separable One-Trip Perforation and Gravel Pack System and Method	01	CIP	09/818,298 27-Mar-2001	20020062960A1 30-May-2002	6,568,474 27-May-2003	Granted 20-Dec-2029
S11114 United States of America Title: Gravel Pack Isolation System	00	ORD	09/312,102 14-May-1999		6,302,208 16-Oct-2001	Granted 14-May-2019
S11116 United States of America Title: Cross-Over Tool Return Port Cover	00	PRI	10/614,500 07-Jul-2003	20050006092A1 13-Jan-2005	6,981,551 03-Jan-2006	Granted 07-Nov-2023
S11116 United States of America Title: Cross-Over Tool Return Port Cover	01	CIP	11/123,793 06-May-2005		7,383,884 10-Jun-2008	Granted 02-Nov-2023
S11117 United States of America Title: Combination Jar and Disconnect Tool	00	ORD	11/256,306 21-Oct-2005	20060086505A1 27-Apr-2006	7,395,862 08-Jul-2008	Granted 05-Feb-2026
S11118 United States of America Title: Interventionless Oil Tool Actuator with Floating Piston	00	PRI	11/049,126 02-Feb-2005	20060169462A1 03-Aug-2006	7,303,020 04-Dec-2007	Granted 24-Sep-2025
S11119 United States of America Title: Isolation System Comprising a Plug and a Circulation Valve and Method	00	PRI	11/034,228 12-Jan-2005	20060151183A1 13-Jul-2006	7,210,535 01-May-2007	Granted 06-Jul-2025
S11119 United States of America Title: Isolation System Comprising a Plug and a Circulation Valve and Method	01	CON	11/737,978 20-Apr-2007	20070246216A1 25-Oct-2007	7,810,575 12-Oct-2010	Granted 12-Jan-2025
S11120 United States of America Title: Frangible Flapper Valve with Hydraulic Impact Sleeve and Method of Breaking	00	PRI	11/879,182 16-Jul-2007	20090020290A1 22-Jan-2009	7,665,528 23-Feb-2010	Granted 11-Dec-2027
S11121 United States of America Title: System and Method for a Low Drag Flotation System	00	ORD	12/027,869 07-Feb-2008	20080185157A1 07-Aug-2008	7,677,322 16-Mar-2010	Granted 14-Apr-2028
S11122 United States of America Title: Apparatus and Method for Gravel Packing	02	CON	11/028,468 03-Jan-2005	20050178547A1 18-Aug-2005	7,178,595 20-Feb-2007	Granted 10-Aug-2021

Case Number Country	SubCase	Case Type	Application Filing Date	Publication Publication Date	Patent Number Issue Date	Status Expiration Date
S11122 United States of America Title: Apparatus and Method for Gravel Packing	03	CON	11/627,873 26-Jan-2007	20070119590A1 31-May-2007	7,377,320 27-May-2008	Granted 27-Aug-2021
S11123 United States of America Title: Method and Apparatus for Production Using a Pressure Actuated Circulating Valve	00	ORD	09/378,384 20-Aug-1999		6,397,949 04-Jun-2002	Granted 20-Aug-2019
S11123 United States of America Title: Method and Apparatus for Production Using a Pressure Actuated Circulating Valve	01	CIP	10/004,956 05-Dec-2001	20020070023A1 13-Jun-2002	6,722,440 20-Apr-2004	Granted 21-Aug-2018
S11123 United States of America Title: Method and Apparatus for Production Using a Pressure Actuated Circulating Valve	02	CIP	10/364,941 12-Feb-2003	20030221839A1 04-Dec-2003	7,198,109 03-Apr-2007	Granted 21-Aug-2018
S11123 United States of America Title: Method and Apparatus for Production Using a Pressure Actuated Circulating Valve	03	CIP	10/364,945 12-Feb-2003	20030178198A1 25-Sep-2003	7,124,824 24-Oct-2006	Granted 05-Dec-2020
S11123 United States of America Title: Method and Apparatus for Production Using a Pressure Actuated Circulating Valve	04	CIP	10/712,153 13- Nov-2003	20040094304A1 20-May-2004	7,201,232 10-Apr-2007	Granted 03-Feb-2019
S11123 United States of America Title: Method and Apparatus for Production Using a Pressure Actuated Circulating Valve	05	CON	10/788,833 27-Feb-2004	20040244976A1 09-Dec-2004	7,152,678 26-Dec-2006	Granted 21-Aug-2018
S11123 United States of America Title: Method and Apparatus for Production Using a Pressure Actuated Circulating Valve	06	CON	11/614,927 21-Dec-2006	20070119598A1 31-May-2007	7,665,526 23-Feb-2010	Granted 23-Sep-2018
S11123 United States of America Title: Method and Apparatus for Production Using a Pressure Actuated Circulating Valve	07	REI	11/711,591 26-Feb-2007		RE40,648 10-Mar-2009	Granted 21-Aug-2018
S11124 United States of America Title: Reclosable Mechanical Annular Flow Valve	00	PRI	11/061,714 18-Feb-2005	20060185852A1 24-Aug-2006	7,497,265 03-Mar-2009	Granted 18-Jun-2025
S11125 United States of America Title: System and Method for Sealing Gravel Exit Ports in Gravel Pack Assemblies	00	PRI	12/329,188 05- Dec-2008	10-0139917 10-Jun-2010	8,739,870 03-Jun-2014	Granted 21-Apr-2030
S11126 United States of America Title: Apparatus and Methods for Limiting Debris Flow Back Into an Underground Base Pipe of An Injection Well	00	ORD	11/724,434 15-Mar-2007	20070246226A1 25-Oct-2007	7,793,716 14-Sep-2010	Granted 16-Apr-2028
S11126 United States of America Title: Apparatus and Methods for Limiting Debris Flow Back Into an Underground Base Pipe of An Injection Well	01	DIV	12/853,443 10-Aug-2010	2010300692 02-Dec-2010	8,240,374 14-Aug-2012	Granted 15-Mar-2027
S11127 United States of America Title: Apparatus and Methods for Allowing Fluid Flow Inside At Least One Screen and Outside A Pipe Disposed in a Well Bore	00	PRI	12/246,166 06-Oct-2008	10-084133 08-Apr-2010	7,987,909 02-Aug-2011	Granted 09-Nov-2028
S11127 United States of America Title: Apparatus and Methods for Allowing Fluid Flow Inside At Least One Screen and Outside A Pipe Disposed in a Well Bore	09	DIV	13/194,211 29-Jul-2011	2012-0090831 19-Apr-2012	8,622,125 07-Jan-2014	Granted 06-Oct-2028
S11128 United States of America Title: Radial Flow Valve and Method	00	PRI	12/048,517 14- Mar-2008	2009229828 17- Sep-2009	8,251,150 28-Aug-2012	Granted 17-Mar-2030
S11128 United States of America	01	CON	13/592,486 23-Aug-2012	US2012-0312558 A1 13-Dec-2012	8,689,887 08-Apr-2014	Granted 14-Mar-2028

Case Number Country	SubCase	Case Type	Application Filing Date	Publication Publication Date	Patent Number Issue Date	Status Expiration Date
Title: Methods of Operating a Radial Flow Valve						
S11132 United States of America	00	ORD	09/247,168 09- Feb-1999		6,211,120 03-Apr-2001	Granted 09-Feb-2019
Title: Application of Aluminum Chlorohydrate in Viscosifying Brine for Carrying Proppants in Gravel Packing						
S11133 United States of America	00	CIP	10/315,430 10-Dec-2002	US03/83205 01-May-2003	6,642,185 04-Nov-2003	Granted 16-Oct-2020
Title: Borate Crosslinked Fracturing Fluid Viscosity Reduction Breaker Mechanism and Products						
S11134 United States of America	00	PRI	09/900,343 03-Jul-2001	US03/22796 30-Jan-2003	6,617,285 09-Sep-2003	Granted 03-Jul-2021
Title: Polyols for Breaking of Borate Crosslinked Fracturing Fluid						
S11134 United States of America	01	CIP	10/627,091 25-Jul-2003	04/127367 01-Jul-2004	7,160,842 09-Jan-2007	Granted 03-Jul-2021
Title: Polyols for Breaking of Borate Crosslinked Fracturing Fluid						
S11134 United States of America	02	CIP	10/627,391 25-Jul-2003	04/0019199 29-Jan-2004	7,084,093 01-Aug-2006	Granted 01-Jun-2022
Title: Polyols for Breaking of Borate Crosslinked Fracturing Fluid						
S11135 United States of America	00	ORD	10/270,807 14-Oct-2002	US03/92581 15-May-2003	7,256,160 14-Aug-2007	Granted 13-Aug-2024
Title: Fracturing Fluids for Delayed Flow Back Operations						
S11137 United States of America	00	ORD	10/238,072 09-Sep-2002	03/119678 26-Jun-2003	7,078,370 18-Jul-2006	Granted 03-Sep-2023
Title: Biodegradable Chelant Compositions for Fracturing Fluid						
S11138 United States of America	00	ORD	10/223,118 19-Aug-2002	03/111225 19-Jun-2003	6,805,198 19-Oct-2004	Granted 16-Nov-2022
Title: Organic Acid System for High Temperature Acidizing						
S11139 United States of America	00	ORD	10/438,384 15-May-2003	03/217846 27-Nov-2003	6,923,260 02-Aug-2005	Granted 28-Oct-2023
Title: Mitigation of Proppant Sticking in Removing Downhole Tools						
S11140 United States of America	00	PRI	10/602,230 24-Jun-2003	04/262002 30-Dec-2004	6,994,166 07-Feb-2006	Granted 11-Feb-2024
Title: Composition and Method for Diversion Agents for Acid Stimulation of Subterranean Formations						
S11141 United States of America	00	PRI	10/911,898 05-Aug-2004	06/27364 09-Feb-2006	7,195,065 27-Mar-2007	Granted 24-Jun-2025
Title: Stabilizing Crosslinked Polymer Guars and Modified Guar Derivatives						
S11142 United States of America	01	CIP	12/122,843 19-May-2008	08/0220995 11-Sep-2008	7,543,646 09-Jun-2009	Granted 30-Jul-2027
Title: Concentrated Suspension of Particulate Additives to Fracturing and Other Fluids						
S11143 United States of America	00	PRI	12/122,854 19-May-2008	10/38085 18-Feb-2010	7,703,522 27-Apr-2010	Granted 23-Jun-2028
Title: Methods of Underground Formation Consolidation						
S11147 United States of America	00	PRI	12/859,455 19-Aug-2010	2012042966 23-Feb-2012	8,870,153 28-Oct-2014	Granted 29-Mar-2032
Title: Pressure Activated Ratcheting Valve						
S11152 United States of America	01	CIP	13/833,089 15-Mar-2013	2014-0182854 03-Jul-2014		Published
Title: Fluid Loss Control Pill With Internal Breaker and Method						
S11168 United States of America	00	ORD	14/457,972 12-Aug-2014	2015-0047837 19-Feb-2015		Published
Title: Multi-Zone Single Trip Well Completion System						

Case Number Country	SubCase	Case Type	Application Filing Date	Publication Publication Date	Patent Number Issue Date	Status Expiration Date
S11171 United States of America Title: Polysaccharide Delivery Unit for Wellbore Treatment Agent and Method	00	PRI	13/896,521 17-May-2013	2014-0338902 20-Nov-2014		Published
S11172 United States of America Title: Location and Stimulation Methods and Apparatuses Utilizing Downhole Tools	02	ORD	14/668,598 25- Mar-2015	20150275643 01-Oct-2015		Published
S11172 United States of America Title: Location and Stimulation Methods and Apparatuses Utilizing Downhole Tools	03	PRO	62/222,023 22-Sep-2015			Pending 22-Sep-2016
S11182 United States of America Title: Casing Valve	01	ORD	14/328,335 10-Jul-2014			Pending
S11183 United States of America Title: Disappearing Sleeve	00	PRO	62/157,834 06-May-2015			Pending 06-May-2016
S11184 United States of America Title: Over-Coupling Screen Communication System	01	ORD	14/702,291 01-May-2015	20150315881 05-Nov-2015		Published
S11188 United States of America Title: Downhole Tool With Counting Mechanism	01	ORD	14/813,865 30-Jul-2015	20160032684 04-Feb-2016		Published
S11189 United States of America Title: Multi-Pressure Toe Valve	00	PRO	62/144,722 08-Apr-2015			Pending 08-Apr-2016
S11189 United States of America Title: Multi-Pressure Toe Valve	01	ORD	14/874,696 05-Oct-2015			Pending
S11190 United States of America Title: Method and Apparatus for Secondary Recovery Operations in Hydrocarbon Formations	01	ORD	14/932,594 04-Nov-2015			Pending

Superior Energy Services-North America Services, Inc.

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IPSO-01 United States of America Title: MULTI STAGE SPRING FOR USE WITH ARTIFICIAL LIFT	01	PRI	12/540,951 13-Aug-2009	20100038071 18-Feb-2010		Published
NASI-010 United States of America Title: SNUBBING ASSEMBLIES AND METHODS FOR INSERTING AND REMOVING TUBULARS FROM A WELLBORE	00	PRI	13/507,329 21-Jun-2012		9,097,064 04-Aug-2015	Other Firm 24-Jun-2033
NASI-015 United States of America Title: LONG LATERAL COMPLETION SYSTEM PIPE TONG AND METHOD OF USING THE SAME	00	PRI	13/507,326 21-Jun-2012			Other Firm
NASI-017 United States of America Title: CONTROL SYSTEM AND METHOD FOR A WELL COMPLETION SYSTEM	00	PRI	13/507,354 21-Jun-2012			Other Firm

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NASI-026 United States of America Title: GRIPPING ATTACHMENT FOR USE WITH DRIVE SYSTEMS	00	PRI	13/507,356 21-Jun-2012			Other Firm
NASI-027 United States of America Title: METHOD AND APPARATUS FOR INSPECTING AND TALLYING PIPE	00	PRI	13/507,323 21-Jun-2012	2013-0340998 26-Dec-2013		Other Firm
NASI-028 United States of America Title: TRANSPORTABLE SINGLE OPERATOR RIG APPARATUS AND METHOD FOR OPTIMIZING DRILLING AND/OR COMPLETION	00	PRI	13/507,341 21-Jun-2012	2013-0341003 26-Dec-2013		Other Firm
NASI-030 United States of America Title: GUIDE ATTACHMENT FOR USE WITH DRIVE SYSTEMS	00	PRI	13/507,346 21-Jun-2012	2013-0341045 26-Dec-2013	9,016,386 28-Apr-2015	Other Firm 12-Apr-2033
NASI-031 United States of America Title: TRANSPORTABLE SINGLE OPERATOR RIG APPARATUS AND METHOD FOR OPTIMIZING DRILLING AND/OR COMPLETION	00	PRI	13/507,334 21-Jun-2012	2013-0341096 26-Dec-2013		Other Firm
NASI-032 United States of America Title: METHOD AND APPARATUS FOR WORKING MULTIPLE WELLHEADS IN CLOSE PROXIMITY	00	PRI	13/507,339 21-Jun-2012	2013-0341038 26-Dec-2013		Other Firm
NASI-033 United States of America Title: SYSTEM AND METHOD FOR CONTROLLING SURFACE EQUIPMENT TO INSERT AND REMOVE TUBULARS WITH A WELL UNDER PRESSURE	00	PRI	13/507,353 21-Jun-2012	20130341046 26-Dec-2013	9,194,194 24-Nov-2015	Granted 21-Jun-2032
NASI-035 United States of America Title: METHOD OF DEPLOYING A MOBILE RIG SYSTEM	00	RCE	13/507,336 21-Jun-2012	2013-0343858 26-Dec-2013		Other Firm
NASI-036 United States of America Title: METHODS FOR REAL TIME CONTROL OF A MOBILE RIG	00	PRI	13/507,349 21-Jun-2012	2013-0341013 26-Dec-2013		Other Firm
NASI-037 United States of America Title: GROUND LEVEL RIG AND METHOD	00	PRI	13/507,325 21-Jun-2012	2013-0341039 26-Dec-2013		Other Firm
NASI-038 United States of America Title: LOW WIND RESISTANCE RIG	00	PRI	13/507,335 21-Jun-2012	2013-0341037 26-Dec-2013		Other Firm
NASI-039 United States of America Title: METHOD AND APPARATUS FOR ALIGNING A BOP STACK AND A MAST	00	PRI	13/507,332 21-Jun-2012	2013-0341036 26-Dec-2013		Other Firm
NASI-040 United States of America Title: PIPE EJECTOR MECHANISM AND METHOD	00	PRI	13/507,338 21-Jun-2012	2013-0343835 26-Dec-2013	8,899,907 02-Dec-2014	Other Firm 09-Oct-2032
NASI-041 United States of America Title: PIPE CLAMP MECHANISM AND METHOD	00	PRI	13/507,348 21-Jun-2012	2013-0341002 26-Dec-2013	8,944,158 03-Feb-2015	Other Firm 15-Feb-2033
NASI-043 United States of America Title: SKID MOUNTED PIPE ARM WITH WALKWAY AND METHOD	00	PRI	13/507,328 21-Jun-2012	2013-0343834 26-Dec-2013		Other Firm
NASI-044 United States of America Title: RIG CARRIER INTERCONNECTION SUPPORT AND METHOD	00	PRI	13/507,351 21-Jun-2012	2013-0341000 26-Dec-2013		Other Firm

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NASI-045 United States of America	00	PRI	13/507,324 21-Jun-2012	2013-0340356 26-Dec-2013	8,661,743 04-Mar-2014	Other Firm 21-Jun-2032
Title: BRACE SUPPORT MAST ASSEMBLY FOR A TRANSPORTABLE RIG						
OFIPS-04 United States of America	00	PRI	10/292,238 12-Nov-2002		6,719,060 13-Apr-2004	Granted 12-Nov-2022
Title: PLUNGER LIFT SEPARATION AND CYCLING						
T11140 United States of America	00	PRI	13/507,322 21-Jun-2012		8,915,310 23-Dec-2014	Other Firm 21-Jun-2032
Title: LONG LATERAL COMPLETION SYSTEM AND METHOD						
T11141 United States of America	00	PRI	13/507,350 21-Jun-2012		8,875,447 04-Nov-2014	Other Firm 21-Jun-2032
Title: MAST AND GUY WIRE SYSTEMS FOR USE WITH A LONG LATERAL COMPLETION SYSTEMS AND METHOD						
T11142 United States of America	00	PRI	13/507,343 21-Jun-2012			Other Firm
Title: MOBILE RIG AND METHOD						
T11143 United States of America	00	PRI	13/507,342 21-Jun-2012		8,985,928 24-Mar-2015	Other Firm 09- Oct-2032
Title: LONG LATERAL COMPLETION SYSTEM AND METHOD FOR PIPE HANDLING						
T11144 United States of America	00	PRI	13/507,347 21-Jun-2012			Other Firm
Title: DRIVE SYSTEMS FOR USE WITH LONG LATERAL COMPLETION SYSTEMS AND METHODS						

Warrior Energy Services Corporation

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140140-04200 United States of America	00	ORD	14/472,044 28-Aug-2014			Pending
Title: Plunger Lift Assembly With an Improved Free Piston Assembly						
170140 United States of America	00	PRI	13/523,238 14-Jun-2012	2013-0336747 19-Dec-2013	8,899,901 02-Dec-2014	Other Firm 05-Oct-2032
Title: Pipe Handling Apparatus and Method						
170140 United States of America	01	CIP	13/548,048 12-Jul-2012	2013-0336748 19-Dec-2013	8,950,996 10-Feb-2015	Other Firm 13-Nov-2032
Title: Pipe Handling Apparatus and Method						
170140 United States of America	02	CIP	13/660,784 25-Oct-2012	2014-0119855 01-May-2014		Other Firm
Title: Pipe Handling Apparatus and Method						
170140 United States of America	03	CON	14/494,377 23-Sep-2014	2015-0010377 08-Jan-2015		Other Firm
Title: Pipe Handling Apparatus and Method						

Wild Well Control, Inc.

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12086-4 United States of America	00	ORD	13/776,788 26-Feb-2013	2013-0269948 17-Oct-2013		Other Firm
Title: Annulus Cementing Tool for Subsea Abandonment Operation						

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71768.54 United States of America	01	ORD	12/334,800 15-Dec-2008	20090178810 16-Jul-2009	8,002,032 23-Aug-2011	Granted 19-Aug-2029
Title: Hydraulic Overshot with Removable Setting and Testing Core						
OF71768.60 United States of America	01	ORD	13/077,053 31-Mar-2011	20110240300 06-Oct-2011	8,678,110 25-Mar-2014	Granted 02-Mar-2032
Title: MUD SAVER VALVE AND METHOD OF OPERATION OF SAME						
OF71768.60 United States of America	02	CIP	14/222,293 21-Mar-2014	20140284112 25-Sep-2014		Published
Title: IMPROVED MUD SAVER VALVE AND METHOD OF OPERATION OF SAME						
T11110 United States of America	00	PRI	13/309,137 01-Dec-2011	US2013-0140008 06-Jun-2013	9,097,378 04-Aug-2015	Granted 06-Mar-2034
Title: Insulated Pipe Junction Jacket for Freezing the Contents of a Pipe Junction and Methods of Using Same						
T11110 United States of America	02	CON	14/802,161 17-Jul-2015	20150323120 12-Nov-2015		Published
Title: Pipe Junction Jacket and Method for Using Same						
T11138 United States of America	00	PRO	62/148,515 16-Apr-2015			Pending 16-Apr-2016
Title: Wire Saw Apparatus						
W11160 United States of America	01	ORD	12/276,863 24-Nov-2008	20100084024 08-Apr-2010	7,938,137 10-May-2011	Granted 21-Nov-2029
Title: Method of Direct Hot Tapping Into a Multiple Production String Without Removing Outer Layers of Casing						
W11160 United States of America	02	CON	13/104,397 10-May-2011		8,474,473 02-Jul-2013	Granted 24-Nov-2028
Title: Method of Direct Hot Tapping Into a Multiple Production String Without Removing Outer Layers of Casing						
W11160 United States of America	04	CON	13/946,079 19-Jul-2013	20130306162 21-Nov-2013	8,701,699 22-Apr-2014	Granted 24-Nov-2028
Title: Hot Tapping Seal Assembly						
W11160 United States of America	05	CON	14/182,145 17-Feb-2014	20140158222 12-Jun-2014	9,091,383 28-Jul-2015	Granted 24-Nov-2028
Title: Hot Tapping Clamp Assembly						
W11160 United States of America	06	DIV	14/182,147 17-Feb-2014	20140158218 12-Jun-2014	9,010,350 21-Apr-2015	Granted 24-Nov-2028
Title: Method of Hot Tapping Into a Pipe						
WWC-01 United States of America	00	PRI	07/621,837 04-Dec-1990		5,154,233 13-Oct-1992	Other Firm 04-Dec-2010
Title: WELL PROTECTION APPARATUS AND METHOD						
WWC-02 United States of America	00	PRI	08/186,330 24-Jan-1994		5,607,020 04-Mar-1997	Other Firm 04-Mar-2014
Title: REMOTE CONTROLLED, PORTABLE DELUGE SYSTEMS AND METHOD						
WWC-03 United States of America	00	PRI	12/271,578 14-Nov-2008		8,141,509 27-Mar-2012	Other Firm 14- Nov-2028
Title: SUBSEA SALVAGE OPERATION USING LIFTING MAGNET						
WWC-04 United States of America	00	PRI	12/268,748 11-Nov-2008	2010-0116504 13-May-2010	8,240,387 14-Aug-2012	Other Firm 11- Nov-2028
Title: CASING ANNULUS TESTER FOR DIAGNOSTICS AND TESTING OF A WELLBORE						
WWC-07 United States of America	00	PRI	13/095,596 27-Apr-2011	2012-0273219 01-Nov-2012	8,857,520 14-Oct-2014	Other Firm 27-Dec-2032
Title: EMERGENCY DISCONNECT SYSTEM FOR RISELESS SUBSEA WELL INTERVENTION SYSTEM						
WWC-08 United States of America	00	PRI	12/210,109 12-Sep-2008			Other Firm

Case Number Country	SubCase	Case Type	Application Filing Date	Publication Publication Date	Patent Number Issue Date	Status Expiration Date
Title: DEVICE AND METHOD FOR TISSUE RETRACTION IN SPINAL SURGERY						
WWC-09 United States of America	00	PRI	13/237,549 20-Sep-2011	US2012/0125623 24-May-2012	8,931,562 13-Jan-2015	Other Firm 18-Mar-2032
Title: Collector for Capturing Flow Discharged from a Subsea Blowout						
WWC-09 United States of America	02	DIV	14/561,274 05-Dec-2014	2015-0159456 11-Jun-2015	9228408 05-Jan-2016	Granted 10-Sep-2011
Title: Collector for Capturing Flow Discharged from a Subsea Blowout						
WWC-10 United States of America	01	ORD	13/292,280 09-Nov-2011	2012-0111572 10-May-2012		Other Firm
Title: EMERGENCY CONTROL SYSTEM FOR SUBSEA BLOWOUT PREVENTER						
WWC-11 United States of America	01	CIP	13/294,785 11-Nov-2011	US2012/0201604 09-Aug-2012	8,708,600 29-Apr-2014	Other Firm 16-Dec-2030
Title: Subsea Injection of Oil Dispersant						
WWC-12 United States of America		PRO	61/479,888 28-Apr-2011			Other Firm 28- Apr-2012
Title: Subsea Dispersant Injection Systems and Methods						
WWC-12 United States of America	00	ORD	13/455,724 25-Apr-2012	20130022400A1 24-Jan-2013	8,784,004 22-Jul-2014	Other Firm 25-Apr-2032
Title: Subsea Dispersant Injection Systems and Methods						
WWC-13 United States of America	00	PRI	13/523,746 14-Jun-2012			Other Firm
Title: SUBSEA CONNECTOR WITH A LATCHING ASSEMBLY						
WWCI-0022 United States of America	01	ORD	14/851,106 11-Sep-2015			Other Firm
Title: CEMENTING SYSTEM FOR RISERLESS ABANDONMENT OPERATION						