504613569 10/26/2017

PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1 Stylesheet Version v1.2 EPAS ID: PAT4660282

SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT

CONVEYING PARTY DATA

Name	Execution Date
MICHAEL GAY	09/17/2012
DRAGON'S HEAD CONSULTING, LLC	09/17/2012

RECEIVING PARTY DATA

Name:	PIONEER NATURAL RESOURCES USA, INC.
Street Address:	5205 NORTH O'CONNOR BLVD, SUITE 200
City:	IRVING
State/Country:	TEXAS
Postal Code:	75039-4412

PROPERTY NUMBERS Total: 2

Property Type	Number
Application Number:	15199040
Application Number:	15199255

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: 713-496-3456
Email: docket@KTlaw.org

Correspondent Name: KNOBLOCH & TRIPP, PLLC 4265 SAN FELIPE, SUITE 1100

Address Line 4: HOUSTON, TEXAS 77027

ATTORNEY DOCKET NUMBER:	33096USD	
NAME OF SUBMITTER:	CHARLES KNOBLOCH	
SIGNATURE:	/charles knobloch/	
DATE SIGNED:	10/26/2017	

Total Attachments: 4

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> PATENT REEL: 043961 FRAME: 0882

ORIGINAL ASSIGNMENT

For valuable consideration, I			
Michael Gay	of	Residence Address:	917 Eagle Cliff Drive
(Type name of inventor)			Norman, OK 73072
,		Citizenship:	U.S.A.

the below signed joint inventor, hereby assign to

Pioneer Natural Resources USA, Inc.

a corporation having a registered office at

5205 North O'Connor Blvd., Suite 200

Irving, TX 75039-4412

USA

and its successors and assigns (collectively hereinafter called "the Assignee"), the entire right, title and interest throughout the world in the inventions and improvements which are described or claimed in the subject of U.S. provisional application, having the attorney docket number of 33096US, also known as "Sliding Sleeve Technology", and entitled:

"Well Treatment Device, Method, and System"

This assignment includes said application, any and all United States and foreign patents, utility models, design registrations, inventor's certificates and other similar rights granted for any of said inventions or improvements, including any and all divisional applications, continuations, and continuations in part together with the entire right, title and interest in and to said applications, and to all divisional applications, continuations, and continuations in part thereof, and the right to claim priority based on the filing date of said application under the International Convention for the Protection of Industrial Property, the Patent Cooperation Treaty, the European Patent Convention, and all other treaties of like purposes. I hereby authorize the Assignee to apply in all countries in my name, or in its own name, for patents, utility models, design registrations and like rights of exclusion and for inventor's certificates for said inventions and improvements; and I agree for myself and my heirs, legal representatives and assignees, without further compensation to perform such lawful acts and to sign such further applications, assignments, Preliminary Statements and other lawful documents as the Assignee may reasonably request to effectuate fully this assignment.

P:\FILES\33096US\DFT\Assignment from Gay to Pioneer.doc

Accionment: Attu: Daf: 2200KIS ("Sliding Sleave Technology") "Wall Transment Device Mathod and System"

ociow.				
116	HALL STEEL	Michael Gay	9/17/2012	Dorman, OK, USA
Signature	of Inventor	Typed Name	Date of Signature	Place of Signature City, Country
	,			Chy, Country
_				
			, on the day and year above person whose name is subscri	
			cuted the instrument of his own	
purposes	and consideration therein	expressed.		
•			0	1
Notary Pu	ablic [SEAL]		110 2	
oT4>	OFFICIAL SEAL		(MITEM)	
FOLKET	Evan Kent		Notary Public Signature	
PUBLIC	Commission # 09000973	3	EVAN KENT	***************************************
GRAHOWA	Expires January 28, 2013	3	Printed Name of Notary Public	
This ASS	IGNMENT acknowledge	ed and agreed to by	y Pioneer Natural Resources USA	A, Inc.
\mathcal{L}	1111	T	1/0	06
Henry	Moderal	Denny D. B	Sollars <u>VP, Operatio</u> Title	ough Services
Signature	of Assignee	Typed Name	litle	
9-20	1 k3	N " T	·	
Date of S	*	Dallus Tx Place of Signatur	<u> </u>	
Date of S	ignature	Place of Signatur	re City, Country	
			day and year above specified	
We have B. Refued, known to me to be the person whose name is subscribed to the foregoing Assignment, and acknowledged to me that he executed the instrument of his own free will and				
for the purposes and consideration therein expressed.				
Notary Pu	iblic [SEAL]	_	1. 41	
			Mese / 1002	
Marie By Police	SHIELA L. MOORE	7	Notary Public Signature	•
*	Notary Public, State of Texa		Shiela L. Moon	2e
A STATE OF THE PARTY OF THE PAR	My Commission Expires May 13, 2016		Printed Name of Notary Public	

IN WITNESS WHEREOF, I hereby set my hand, date of signature and place of signature as indicated

ASSIGNMENT

Dragon's Head Consulting, LLC, a limited liability company having a place of business at 917 Eagle Cliff Drive, Norman, OK 73072 (hereinafter "Assignor"), releases its interests in the patent application listed below.

For valuable consideration, Assignor hereby assigns to

Pioneer Natural Resources USA, Inc.

a corporation having a registered office at

5205 North O'Connor Blvd., Suite 200

Irving, TX 75039-4412

USA

and its successors and assigns (collectively hereinafter called "the Assignee"), its entire right, title and interest throughout the world in the inventions and improvements which are described or claimed in the subject of U.S. provisional patent application, having the attorney docket number of 33096US, also known as "Sliding Sleeve Technology", and entitled:

"Well Treatment Device, Method, and System"

This assignment includes said application, any and all United States and foreign patents, utility models, design registrations, inventor's certificates and other similar rights granted for any of said inventions or improvements, including any and all divisional applications, continuations, and continuations in part together with the entire right, title and interest in and to said applications, and to all divisional applications, continuations, and continuations in part thereof, and the right to claim priority based on the filing date of said application under the International Convention for the Protection of Industrial Property, the Patent Cooperation Treaty, the European Patent Convention, and all other treaties of like purposes. Assignor hereby agrees for itself and its successors-in-interest, legal representatives and assignees, without further compensation to perform such lawful acts and to sign such further applications, assignments, Preliminary Statements and other lawful documents as the Assignee may reasonably request to effectuate fully this assignment.

P:\FILES\33096US\DFT\Assignment from Dragon Head to PNR USA.doc
Assignment: Attr. Daf: 22006US "Stiding Stague Technology"\ "Well Transment Davide Mathod and Suntam"

IN WITNESS WHEREOF, I hereby set my hand, date of sig below.	nature and place of signature as indicated
Michael (2014) Signature of Assignor Typed Name	President Title
2/17/20/2	Country
BEFORE ME, the undersigned authority, on the appeared Michael Gan, known to me to be the person Assignment, and acknowledged to me that he executed the purposes and consideration therein expressed.	whose name is subscribed to the foregoing
Notary Public [SEAL]	Jun Jean
PUBLIC Evan Kent PUBLIC Commission # 00000073	Public Signature EUAN CENT I Name of Notary Public
This ASSIGNMENT acknowledged and agreed to by Pione	er Natural Resources USA, Inc.
Signature of Assignee Denny B. B. Hand	VP Operational Services
9-20-12 Dallus, Texus, Place of Signature City,	USA Country
BEFORE ME, the undersigned authority, on the day as Denny B. Bollaco, known to me to be foregoing Assignment, and acknowledged to me that he exfor the purposes and consideration therein expressed.	the person whose name is subscribed to the
Notary Public [SEAL]	hun X Joore
SHIELA L. MOORE Notary Public, State of Texas My Commission Expires	y Public Signature Shicla L. Mooke and Name of Notary Public

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Accimment: Attu: Def: 22006HS ("Cliding Cleave Technology") "Well Treatment Device Method and System"

RECORDED: 10/26/2017