### 504222083 02/10/2017

## PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1 Stylesheet Version v1.2 EPAS ID: PAT4268760

SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT

### **CONVEYING PARTY DATA**

Name	Execution Date
MARK ELLIOTT WILLIS	01/17/2017
BAISHALI ROY	01/13/2017
MICHAEL PAUL DAVIDSON	01/13/2017
ALI TURA	02/06/2017

### **RECEIVING PARTY DATA**

Name:	CONOCOPHILLIPS COMPANY	
Street Address:	600 NORTH DAIRY ASHFORD	
Internal Address:	LEGAL-IP/TECHNOLOGY, ATTN: DOCKETING SERVICES	
City:	HOUSTON	
State/Country:	TEXAS	
Postal Code:	77079-1175	

### **PROPERTY NUMBERS Total: 2**

Property Type	Number	
Application Number:	14277314	
PCT Number:	US1438036	

### **CORRESPONDENCE DATA**

Fax Number: (281)293-4689

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: 281-293-1460

Legal-IP@conocophillips.com Email: CONOCOPHILLIPS COMPANY **Correspondent Name:** Address Line 1: 600 NORTH DAIRY ASHFORD

Address Line 2: LEGAL-IP/TECHNOLOGY, ATTN: DOCKETING SERVICES

**HOUSTON, TEXAS 77079-1175** Address Line 4:

ATTORNEY DOCKET NUMBER:	41689US01
NAME OF SUBMITTER:	SANDRA ANDRESS
SIGNATURE:	/SANDRA ANDRESS/
DATE SIGNED:	02/10/2017

# Total Attachments: 7 source=41689US01\_20170210\_Assignment\_signed\_Final#page1.tif source=41689US01\_20170210\_Assignment\_signed\_Final#page2.tif source=41689US01\_20170210\_Assignment\_signed\_Final#page3.tif source=41689US01\_20170210\_Assignment\_signed\_Final#page4.tif source=41689US01\_20170210\_Assignment\_signed\_Final#page5.tif source=41689US01\_20170210\_Assignment\_signed\_Final#page6.tif source=41689US01\_20170210\_Assignment\_signed\_Final#page7.tif

		41689US01
Ast	the below named inventor(s), I/we declare that this is an Assignment of t	he rights, title and
inte	rest in the following invention:	
Χ	Rights, title and interest in the invention including United States applic	ations and patents
X	United States Provisional Patent Application Serial No. 61/823,472 file	ed May 15, 2013
Χ	United States Utility Patent Application Serial No. 14/277,314 filed Ma	ıy 14, 2014
	United States Patent No(s).	
	Foreign rights, title and interest in the invention including international patents	l applications and
Χ	International (PCT) Patent Application Serial No. PCT/US2014/03803	6 filed May 15, 2014
	Other (specify)	, , , , , , , , ,
<u> Fitl</u>	e of the Invention	
Г	TIME LADGE AD COATTERDIG FOR BALORICANION AND AND COMMENTAL CO.	T T T T T T T T T T T T T T T T T T T

Assignment of Rights, Title and Interest in Invention

TIME-LAPSE 4D SCATTERING FOR IMAGING HYDRAULICALLY INDUCED FRACTURES

Whereas, I/we, the below-identified Inventors, have invented certain new and useful improvements in the Invention identified above and described in the above-identified patent application(s) and/or patent(s) (hereinafter referred to as "Invention");

I/we desire to assign our above-identified rights, title and interest in the Invention to the below-identified Assignee;

Therefore, for valuable consideration, the receipt of which is acknowledged, I/we hereby assign, sell and transfer our above-identified rights, title and interest in said Invention, said application(s) as identified above, including any divisions, continuations, and continuations-in-part thereof, and any and all Letters Patent of the United States, and countries foreign thereto, which may be granted or have granted for said Invention, and in and to any and all reissues and reexaminations thereof, and in and to any and all priority rights, Convention rights, and other benefits accruing or to accrue to us with respect to the filing of applications for patents or securing of patents in the United States and countries foreign thereto, unto said Assignee;

I/we hereby authorize and request the Director of the United States Patent and Trademark Office to issue any United States Letters Patent which may issue for said Invention to said Assignee, as assignee of the whole right title and interest thereto;

I/we agree to sign and execute all necessary and lawful documents, including applications for foreign patents, for filing divisions, continuations and continuations-in-part of said application for patent, and/or, for obtaining any reissue or reissues of any Letters Patent which may be granted for my aforesaid Invention, as the Assignee or its Designee(s) may from time to time require and prepare at its own expense.

PATENT REEL: 041221 FRAME: 0455

Docket No.:

Assignment of Rights, Title and Interest in Invention			Docket No.: 41689US01
I/we hereby acknowledge that any willful false statement made in this declaration is punishable			
under 18 U.S.C. 1001 by fine or imprison	ment of n	ot more than five (5) yea	rs, or both.
Assignors		· · ·	
Inventor: Mark Elliott WILLIS	Address	: 22006 Willow Side Cou	ırt, Katy, TX 77450
Signature. 45 Fast	Citizenship: UM Date: 1 (17/717		
Inventor: Baishali ROY Signature: Baishali ROY	Address: 600 N. Dairy Ashford, Houston, TX 77079 Citizenship: USA Date: 1/13/2017		
			<del>- (/13/201/</del>
Inventor: Michael Paul DAVIDSON		600 N. Dairy Ashford,	
Signature:	Citizensi	hip: <u>Australia</u> Date	: (/13/2017
Inventor: Ali TURA	Address:	12431 Broken Bough L	Dr., Houston, TX
Signature:	Citizensi	hip: Date	:
Assignee ConocoPhillips Company hereby accepts	accionmar	ot of the above reference	d made and the still
Name: ConocoPhillips Company	assigninei	Mailing Address:	patent application.
		600 North Dairy	/ Ashford
Patent [Attorney/Agent] and Attorney-in-I ConocoPhillips Company	Fact	Houston, Texas United States of	<u>77</u> 079-11 <u>75</u>
			1

Assignment of Rights, Title and Interest in Invention	Docket No.; 41689US01
Notarization  Executed this 13th day of ANULY in the year 2017  At	(State)
Balshali Roy Michael Paul Bayidsen	
who acknowledged the foregoing instrument to be a free act and dee that he or she is authorized to execute the same this 13 the day of August Audus	
(Notary Public)	-
SANDRA H. ANDRESS Notary Public, State of Texas Comm. Expires 06-17-2019 Notary ID 358226-1	
My Commission Expires:	
June 17, 2019	

Assignment of Rights, Title and Interest in Invention	Docket No.: 41689US01
Notarization  Executed this 17th day of MULLY in the year 2017  At MULLY in the year 2017  State of County of Hars  Before me personally appeared	(State)
Mark Elliott Willis	
who acknowledged the foregoing instrument to be a free act and dee that he or she is authorized to execute the same this 17 <sup>th</sup> day of MUCLY	
Agudu A audrens (Notary Public)	
SANDRA H. ANDRESS Notary Public, State of Texes Comm. Expires 06-17-2019 Notary ID 358226-1	
My Commission Expires:	
June 17, 2019	

	Assignment of Rights, Title and Interest in Invention	Docket No.: 41689US01
	he below named inventor(s), I/we declare that this is an Assignment of trest in the following invention:  Rights, title and interest in the invention including United States applies	,
X	United States Provisional Patent Application Serial No. 61/823,472 file United States Utility Patent Application Serial No. 14/277,314 filed Mounted States Patent No(s).	ed <b>May 15, 2013</b>
	Foreign rights, title and interest in the invention including international patents	ıl applications and
X	International (PCT) Patent Application Serial No. <b>PCT/US2014/0380</b> 3 Other (specify)	36 filed <b>May 15, 2014</b>

### Title of the Invention

# TIME-LAPSE 4D SCATTERING FOR IMAGING HYDRAULICALLY INDUCED FRACTURES

Whereas, I/we, the below-identified Inventors, have invented certain new and useful improvements in the Invention identified above and described in the above-identified patent application(s) and/or patent(s) (hereinafter referred to as "Invention");

I/we desire to assign our above-identified rights, title and interest in the Invention to the below-identified Assignee;

Therefore, for valuable consideration, the receipt of which is acknowledged, I/we hereby assign, sell and transfer our above-identified rights, title and interest in said Invention, said application(s) as identified above, including any divisions, continuations, and continuations-in-part thereof, and any and all Letters Patent of the United States, and countries foreign thereto, which may be granted or have granted for said Invention, and in and to any and all reissues and reexaminations thereof, and in and to any and all priority rights, Convention rights, and other benefits accruing or to accrue to us with respect to the filing of applications for patents or securing of patents in the United States and countries foreign thereto, unto said Assignee;

I/we hereby authorize and request the Director of the United States Patent and Trademark Office to issue any United States Letters Patent which may issue for said Invention to said Assignee, as assignee of the whole right title and interest thereto;

I/we agree to sign and execute all necessary and lawful documents, including applications for foreign patents, for filing divisions, continuations and continuations-in-part of said application for patent, and/or, for obtaining any reissue or reissues of any Letters Patent which may be granted for my aforesaid Invention, as the Assignee or its Designee(s) may from time to time require and prepare at its own expense.

Assignment of Rights, Title and Interest in Invention		Docket No.: 41689US01	
I/we hereby acknowledge that any willful	l false state	ement made in this	declaration is punishable
under 18 U.S.C. 1001 by fine or imprison	nment of no	ot more than five (	5) years, or both.
Assignors			
Inventor: Mark Elliott WILLIS			le Court, Katy, TX 77450
Signature:	Citizenship: Date:		
Inventor: Baishali ROY	Address:	600 N. Dairy Ash	ford, Houston, TX 77079
Signature:	Citizensh	nip: Do	ate:
Inventor: Michael Paul DAVIDSON	Address:	600 N. Dairy Ash	ford, Houston, TX 77079
Signature:	I		Date:
Inventor: Ali TURA	Address:	12431 Broken Bo	ough Dr., Houston, TX
Signature: M. Mu.			Date: 2/6/2017
Assignee ConocoPhillips Company hereby accepts Name: ConocoPhillips Company	assignmen	Mailing Address. 600 North	
Patent [Attorney/Agent] and Attorney-in-	Fact	•	ates of America
ConocoPhillips Company			
	ı		
		-	

Assignment of Rights, Title and Interest in Invention	Docket No.; 41689US01
Notarization  Executed this 6th day of February in the year 2017  At	(State)
	in the year 2017
(Notary Public)	gs
NANCY CUMMINGS Notary Public State of Colorado Notary ID 20014034779 My Commission Expires Nov 17, 2017	
My Commission Expires:	
November 17, 2017	
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**RECORDED: 02/10/2017**