

## PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1  
Stylesheet Version v1.2

EPAS ID: PAT3008512

<b>SUBMISSION TYPE:</b>	NEW ASSIGNMENT
<b>NATURE OF CONVEYANCE:</b>	ASSIGNMENT
<b>CONVEYING PARTY DATA</b>	
<b>Name</b>	<b>Execution Date</b>
SHAOPING LU	07/28/2014
NORMAN DANIEL WHITMORE	07/28/2014
ALEJANDRO ANTONIO VALENCIANO MAVILIO	07/28/2014
NIZAR CHEMINGUI	08/29/2014
ANDREW LONG	07/30/2014
GRUNDE RØNHOLT	07/30/2014
<b>RECEIVING PARTY DATA</b>	
<b>Name:</b>	PGS GEOPHYSICAL AS
<b>Street Address:</b>	LILLEAKERVEIEN 4C, P.O. BOX 251
<b>City:</b>	LILLEAKER, OSLO
<b>State/Country:</b>	NORWAY
<b>Postal Code:</b>	0216
<b>PROPERTY NUMBERS Total: 1</b>	
<b>Property Type</b>	<b>Number</b>
Application Number:	14337957
<b>CORRESPONDENCE DATA</b>	
<b>Fax Number:</b>	(281)509-8085
<i>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.</i>	
<b>Phone:</b>	2815098000
<b>Email:</b>	Trevor.Topf@pgs.com
<b>Correspondent Name:</b>	PETROLEUM GEO-SERVICES, INC.
<b>Address Line 1:</b>	P.O. BOX 42805
<b>Address Line 4:</b>	HOUSTON, TEXAS 77242-2805
<b>ATTORNEY DOCKET NUMBER:</b>	PGS-13-29US
<b>NAME OF SUBMITTER:</b>	JAMES K. OKAMOTO
<b>SIGNATURE:</b>	/James K. Okamoto, Reg. No. 40,110/
<b>DATE SIGNED:</b>	09/04/2014
<b>Total Attachments: 7</b>	
source=PGS-13-29US_Assignment#page1.tif	

PATENT

source=PGS-13-29US\_Asssignment#page2.tif

source=PGS-13-29US\_Asssignment#page3.tif

source=PGS-13-29US\_Asssignment#page4.tif

source=PGS-13-29US\_Asssignment#page5.tif

source=PGS-13-29US\_Asssignment#page6.tif

source=PGS-13-29US\_Asssignment#page7.tif

## ASSIGNMENT

FOR GOOD AND VALUABLE CONSIDERATION, the receipt, sufficiency and adequacy of which are hereby acknowledged, the undersigned, do hereby:

SELL, ASSIGN AND TRANSFER to PGS Geophysical AS (the "Assignee"), having a place of business at Lilleakerveien 4C, P.O. Box 251, Lilleaker, 0216 Oslo, Norway, the entire right, title and interest in the application for United States Letters Patent, Serial No. 14/337,957 which has been filed on 22-July-2014, and is entitled "CONSTRUCTION AND APPLICATION OF ANGLE GATHERS FROM THREE-DIMENSIONAL IMAGING OF MULTIPLES WAVEFIELDS" and for the United States and all other countries in and to all improvements which are disclosed in such application, and all divisional, continuing, substitute, renewal, reissue, provisional and all other applications for patent which have been or shall be filed in the United States and all other countries or international or regional patent offices on any of such improvements, all original and reissued patents which have been or shall be issued in the United States and all other countries or regional or international patent offices on such improvements, and specifically including the right to file applications in other countries or international or regional patent offices under the provisions of any convention or treaty and claim priority based on such United States application;

AUTHORIZE AND REQUEST the issuing authority to issue any and all United States and other patents granted on such improvements to the Assignee;

WARRANT AND COVENANT that no assignment, grant, mortgage, license or other agreement affecting the rights and property herein conveyed has been or will be made to others by the undersigned, and that the full right to convey the same as herein expressed is possessed by the undersigned;

COVENANT, when requested and at the expense of the Assignee, to carry out in good faith the intent and purpose of this assignment, the undersigned will execute all divisional, continuing, substitute, renewal, reissue, and all other patent applications on any and all such improvements; execute all rightful oaths, declarations, assignments, powers of attorney and other papers; communicate to the Assignee all facts known to the undersigned relating to such

improvements and the history thereof; and generally do everything possible which the Assignee shall consider desirable for vesting title to such improvements in the Assignee, and for securing, maintaining and enforcing proper patent protection for such improvements;

TO BE BINDING on the heirs, assigns, representatives and successors of the undersigned and extend to the successors, assigns and nominees of the Assignee.

Signature: \_\_\_\_\_

Date: \_\_\_\_\_

Name: Shaoping LU

Place of Signature \_\_\_\_\_

Houston, TX

BEFORE ME, the undersigned witness, on this 28 day of July, 2014, personally appeared Shaoping Lu, known to me to be the person whose name is subscribed to the foregoing instrument and acknowledged to me that he executed the same of his own free will for the purposes and consideration therein expressed.

Witness's Signature: \_\_\_\_\_

S. Frolor

Witness's Printed Name: \_\_\_\_\_

Sergey Frolor

Witness's Printed Address: \_\_\_\_\_

15755 Foxglove Rd

Houston, Texas, 77075

Signature: Norman Daniel Whitmore

Date: July 28, 2014

Name: Norman Daniel WHITMORE

Place of Signature Houston, Texas

BEFORE ME, the undersigned witness, on this 28<sup>th</sup> day of July, 2014, personally appeared Norman Daniel Whitmore, known to me to be the person whose name is subscribed to the foregoing instrument and acknowledged to me that he executed the same of his own free will for the purposes and consideration therein expressed.

Witness's Signature:

[Signature]

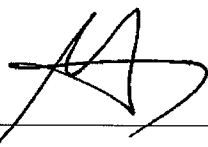
Witness's Printed Name:

ARMANDO SOSA

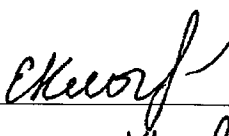
Witness's Printed Address:

719 TRADEMARK PL

HOUSTON, TX, 77079

Signature:  Date: 07/28/2014  
Name: Alejandro Antonio Valenciano MAVILIO  
Place of Signature Houston, TX

BEFORE ME, the undersigned witness, on this 28 day of July, 2014,  
personally appeared Alejandro Antonio Valenciano Mavilio, known to me to be the  
person whose name is subscribed to the foregoing instrument and acknowledged to me that he  
executed the same of his own free will for the purposes and consideration therein expressed.

Witness's Signature:   
Witness's Printed Name: Elena Klochi'khina  
Witness's Printed Address: 15735 Foxgate Rd  
Houston, Texas 77079

Signature: \_\_\_\_\_

Date: 08-29-2014

Name: Nizar CHEMINGUI

Place of Signature \_\_\_\_\_

Houston, TX USA

BEFORE ME, the undersigned witness, on this \_\_\_\_\_ day of \_\_\_\_\_, 2014, personally appeared Nizar Chemingui, known to me to be the person whose name is subscribed to the foregoing instrument and acknowledged to me that he executed the same of his own free will for the purposes and consideration therein expressed.

Witness's Signature: \_\_\_\_\_

Topf

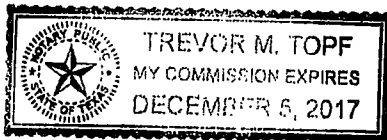
Witness's Printed Name: \_\_\_\_\_

Trevor Topf

Witness's Printed Address: \_\_\_\_\_

15150 Memorial Drive

Houston, TX 77078



Signature: Andrew Long Date: 30-7-14  
Name: Andrew LONG  
Place of Signature PERTH, AUSTRALIA

BEFORE ME, the undersigned witness, on this 30 day of JULY, 2014,  
personally appeared Andrew Long, known to me to be the person whose name is  
subscribed to the foregoing instrument and acknowledged to me that he executed the same of his  
own free will for the purposes and consideration therein expressed.

Witness's Signature: Graham Pound  
Witness's Printed Name: GRAHAM POUND  
Witness's Printed Address: 128 B PEET ROAD  
ROLEYSTONE 6111 WA



Signature: Grunde Rønholt Date: 30.07.2014  
Name: Grunde RØNHOLT  
Place of Signature OSLO, NORWAY

BEFORE ME, the undersigned witness, on this 30th day of JULY, 2014,  
personally appeared <sup>Grunde</sup>~~Nizer~~ Rønholt, known to me to be the person whose name is  
subscribed to the foregoing instrument and acknowledged to me that he executed the same of his  
own free will for the purposes and consideration therein expressed.

Witness's Signature: Stine Indrebo  
Witness's Printed Name: Stine Indrebo  
Witness's Printed Address: Otto Valstadsvei 85  
1395 Hvalstad, Norway