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SUBMISSION TYPE:	·	NEW ASSIGNMENT					
NATURE OF CONVE	YANCE: ASSIGNMENT						
CONVEYING PARTY	′ DATA	,					
		Execution Date					
Robert Godfrey		07/21/2008					
Jean-Michel Gehenr	 ו	07/29/2008					
Richard Dolman		07/26/2008					
Michael Nickel 08/11/2008							
Lars Sonneland 08/12/2008							
RECEIVING PARTY	DATA						
Name:	WesternGeco	L. L. C.					
Street Address:	10001 Richmc	10001 Richmond Avenue					
Internal Address:	IP Dept- Jeffre	IP Dept- Jeffrey Griffin					
City:	Houston						
State/Country:	TEXAS						
Postal Code:	77042						
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Application Number: CORRESPONDENC	E DATA (713)689 <i>be sent via US M</i> 713-689 Igoldsmiti e: WesternO 10001 Rid IP Dept: 5	-1977 <i>Aail when the fax attempt is unsuccess</i> 6265 n@slb.com Geco L. L. C.					
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Assignment

WHEREAS, the undersigned inventors, hereinafter referred to as the "Inventors", each said Inventor's address being listed below:

Robert Godfrey, a citizen of Canada, residing at Mt Pleasant Cansiron Ln, Ashurstwood East Grinstead, West Sussex RH19 3SF, UK,

Jean-Michel Gehenn, citizen of France, residing at 37 Rue Principale, 67140 Mittelbergheim, Alsace, France,

Thibaut Cheret, citizen of France, residing at 16 Lesford Road, Coley Park, Reading, Berkshire, RG1 6DX, UK,

Richard Dolman, citizen of The United Kingdom, residing at 31 Green Curve, Banstead, Surrey SM7 1NS, UK,

Michael Nickel, a citizen of Germany, residing at Klovstein veien 9A, 4041 Stavanger, Norway,

and

Lars Sonneland, a citizen of Norway, residing at Risabergstien 35, 4056 Tananger, Norway

Has/have invented certain new and useful improvements described in the invention disclosure entitled

METHOD OF DERIVING FAULT TRANSMISSIVITY USING ELASTIC IMPEDANCE FLUX

(WesternGeco Docket No. 53.0068-US) and/or as described and set forth in one or more associated patent applications (filed or to be filed). The Inventor(s) hereby authorize and request WesternGeco's legal department, to insert in the space provided in Schedule A the filing date(s), application number(s), and title(s) of said application(s) when known.

WHEREAS each of the undersigned persons warrants that no person other than these undersigned persons are inventors of the above-described invention;

AND WHEREAS, the "COMPANIES", listed in Schedule B, are desirous of acquiring or confirming their acquisition of the entire right, title and interest in and to said invention, inventions or improvements, and in and to said application, and in and to any and all patents, both of the United States and of all foreign countries, that may be obtained therefore as outlined in Schedule B;

NOW, THEREFORE, TO ALL WHOM IT MAY CONCERN, BE IT KNOWN, that the undersigned Inventors, for good and valuable considerations, the receipt and sufficiency of which hereby acknowledge, have sold, assigned, transferred and conveyed, and by this assignment do sell, assign, transfer and convey, unto said COMPANIES, their successors and

assigns, the entire right, title and interest throughout the world, in and to the above-described invention, inventions or improvements described or set forth in said application, in any form or embodiment thereof, and in and to said application, and in and to any applications filed in any foreign country based thereon, including the right to file foreign applications under the provisions of any convention or treaty; and in and to any confirmation, divisional, continuation, continuation-in-part, or substitute application which may be filed on said invention, inventions or improvements in the United States or in any foreign country; and in and to any and all patents, certificates, utility models, reissues, extensions, additions or confirmations thereof which may be granted in the United States or in any foreign country upon said invention, inventions or improvements; and entire right, title and interest in all the intellectual property in the invention including, but not limited to, any and all ideas, discoveries, writings (including software and its source code) and improvements in the invention, together with any and all domestic and foreign design rights, trademarks, trade secrets and copyrights in such ideas.

TO HAVE AND TO HOLD the same to the full end of the term or terms for which any and all such United States and foreign patents and grants may be issued on said invention, inventions or improvements.

AND said Inventors do hereby authorize and request the issuing authority to issue any and all of said United States and foreign patents on said application or applications to said COMPANIES, their successors and assigns, as the assignee of the entire right, title and interest in and to the same, for the sole use and benefit of said COMPANIES, their successors and assigns.

AND said Inventors do hereby covenant and warrant that said Inventors have full right to convey the entire right, title and interest herein assigned free and clear of all licenses, encumbrances and liens whatsoever, and that no said Inventors has executed and will execute any instruments in conflict herewith.

AND said Inventors, for the conditions aforesaid, do hereby covenant and agree to and with the said COMPANIES, their successors and assigns, that each Inventor, his or her executors, administrators, or other personal representatives, shall and will do all lawful acts and things, make all rightful oaths, and make, execute and deliver any and all other instruments in writing, and any and all further applications, papers, powers, affidavits, assignments, disclaimers and other documents, which in the opinion of counsel for said COMPANIES, their successors and assigns, may be required or necessary in this or in any foreign country more effectually to secure to and vest in said COMPANIES, their successors and assigns, the entire right, title and interest in and to said invention, inventions or improvements, application or applications, patents, rights, titles, benefits, privileges, and advantages hereby sold, assigned, confirmed, transferred and conveyed.

ATTORNEY DOCKET NO. 53.0068-US Page 3 of 10

WITNESSED:

IN WITNESS WHEREOF I, Robert Godfrey, have hereunto set my hand and seal this $\frac{2.1 \text{ day of } \frac{1}{3.4 \text{ cm}^2}}{2.008}$.

(Signature of Inventor)

BE IT KNOWN that Robert Godfrey is to me known to be the individual described in the foregoing assignment and that on the aforementioned date I was personally present and did see him/her sign and execute the foregoing assignment; and, that he/she did acknowledge to me that he/she executed the same as his/her free act and deed for the uses and purposes therein set forth.

Witness-Signature

JOHN KIMPERLEY HUGHES Witness-Printed Name

2 CHRISTOPHER ROAD

EAST ORINSTEAD RHI93BT

UNITED KINCDOM Post Office Address

Winess-Signatura

<u>Hüseyin Özdeni</u>r Witness-Printed Name <u>25 Danecourt</u> Gud.

<u>CR0550</u>

CREADON Post Office Address

IN	WITNESS	WHEREOF	I, Jean-Michel	Gehenn,	have	hereunto	set i	my hand	and	seal	this
2	9_ day of	July	, 2008	•		Dr	1	$\widehat{\Lambda}$			
		- ' O				YV	- 4	IV I			
					-	Jen	<u> </u>				
						Bignature	off	nventor)			

BE IT KNOWN that Jean-Michel Gehenn is to me known to be the individual described in the foregoing assignment and that on the aforementioned date I was personally present and did see him/her sign and execute the foregoing assignment; and, that he/she did acknowledge to me that he/she executed the same as his/her free act and deed for the uses and purposes therein set forth.

Witness- Signature

MARCUS ROBSON Witness- Printed Name

2381 TAMAN BAYSITORE, SALAN PANTAI PLASAU,

LUTONG, SARA-AIC, MALAYSIA Post Office Address 98100

Avena	
/Witness-Signature	t-5
(NONNY	
KNONTRA	$\gamma \in 0$

Witness- Printed Name

6 IZU MAINE 1823

PUJUT 9, LORGNG L

98000 MILI, SARAWAK Post Office Address MACAYEIA

IN WITNESS WHEREOF I, **Thibaut Cheret**, have hereunto set my hand and seal this ______day of ______, 2008.

(Signature of Inventor)

BE IT KNOWN that **Thibaut Cheret** is to me known to be the individual described in the foregoing assignment and that on the aforementioned date I was personally present and did see him/her sign and execute the foregoing assignment; and, that he/she did acknowledge to me that he/she executed the same as his/her free act and deed for the uses and purposes therein set forth.

Witness- Signature

Witness- Signature

Witness- Printed Name

Witness- Printed Name

Post Office Address

Post Office Address

IN WITNESS WHEREOF I, Richard Dolman, have hereunto set my hand and seal this

(Signature of Inventor)

BE IT KNOWN that **Richard Dolman** is to me known to be the individual described in the foregoing assignment and that on the aforementioned date I was personally present and did see him/her sign and execute the foregoing assignment; and, that he/she did acknowledge to me that he/she executed the same as his/her free act and deed for the uses and purposes therein set forth.

Carol P. Hartley Witness-Signature

(Miss) C.P. HARTLEY

Witness- Printed Name

33 Green Curve, Banstead,

Surrey. SM7 INS. Post Office Address

Witness- Signature

SARAH HERBERT Witness- Printed Name

31 GREEN CURVE

BANSTEAD

SURREY SM7 INS Post Office Address

IN WITNESS WHEREOF I, Michael Nickel, have hereunto set my hand and seal this <u>day</u> , 2008. of Hugust

BE IT KNOWN that **Michael Nickel** is to me known to be the individual described in the foregoing assignment and that on the aforementioned date I was personally present and did see him/her sign and execute the foregoing assignment; and, that he/she did acknowledge to me that he/she executed the same as his/her free act and deed for the uses and purposes therein set forth.

Witness- Signature

Witness- Printed Name

Postbohs 76

4098 TANANCER Post Office Address

Anne Will Laran Witness-Signature

ANNE LOUISE LARSEN Witness- Printed Name

Stokkaveien 630

4024 STAVANÉER Post Office Address

IN WITNESS WHEREOF I, Lars Sonneland, have hereunto set my hand and seal this <u>12</u> day of <u>August</u>, 2008.

Lasfandere

(Signature of Inventor)

BE IT KNOWN that **Lars Sonneland** is to me known to be the individual described in the foregoing assignment and that on the aforementioned date I was personally present and did see him/her sign and execute the foregoing assignment; and, that he/she did acknowledge to me that he/she executed the same as his/her free act and deed for the uses and purposes therein set forth.

mas

Witness- Signature

Witness- Printed Name

Postschs 76

4098 TANANGER

Post Office Address

Anne Wilse Laisen Witness-Signature

ANNE LUVISE LARSEN Witness- Printed Name

Stokkavelen 630

4024 STAVANGER Post Office Address

Schedule A "APPLICATIONS"

Filing Date	Application No.	Title
08-OCT-2007	60/978,269	DETERMINING FAULT TRANSMISSIVITY IN A SUBTERRANEAN
	,	RESERVOIR TECHNICAL FIELD
17-AUG-2008	12/193,029	DETERMINING FAULT TRANSMISSIVITY IN A SUBTERRANEAN
		RESERVOIR

Schedule B "COMPANIES"

WESTERNGECO, L.L.C.

<u>Corporation of</u>: Delaware, USA <u>Located at</u>: 10001 Richmond Avenue, Houston, Texas 77042-4299, USA <u>Assignee for applications in:</u> The United States of America

SCHLUMBERGER CANADA LIMITED

<u>Corporation of:</u> Canada <u>Located at:</u> 525 – 3rd Avenue S.W., Calgary, Alberta, T2P 0G4 Canada <u>Assignee for applications in</u>: Canada

GECO TECHNOLOGY B.V.

Corporation of: The Netherlands

Located at: Gevers Deynootweg 61, 2586 BJ S Gravenhage, The Netherlands

Assignee for applications in: Albania, Algeria, Angola, Argentina, Australia, Austria, Azerbaijan, Brazil, Brunei, Bulgaria, China, Colombia, Czech Republic, Denmark, Ecuador, Egypt, Eurasia, Europe, Faroe Islands, France, Germany, Greece, Gulf Cooperation Council, Hungary, India, Indonesia, Ireland, Israel, Italy, Japan, Kazakhstan, Korea, Kuwait, Lithuania, Malaysia, Mexico, The Netherlands, New Zealand, Nigeria, Norway, Oman, Pakistan, Poland, Qatar, Romania, Russia, Saudi Arabia, Singapore, Slovakia, Slovenia, South Africa, Spain, Thailand, Trinidad, Tunisia, Turkey, Turkmenistan, Ukraine, United Arab Emirates, United Kingdom, Uzbekistan, Venezuela, Vietnam, and Rest of World