

PATENT ASSIGNMENT

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SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT
CONVEYING PARTY DATA	
Name	Execution Date
Shengwen JIN	01/19/2009
Shiyong XU	01/19/2009
RECEIVING PARTY DATA	
Name:	Landmark Graphics Corporation
Street Address:	2107 City West Boulevard, Building 2
Internal Address:	Intellectual Property Department
City:	Houston
State/Country:	TEXAS
Postal Code:	77042
PROPERTY NUMBERS Total: 1	
Property Type	Number
Application Number:	13142478
CORRESPONDENCE DATA	
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<i>Correspondence will be sent via US Mail when the fax attempt is unsuccessful.</i>	
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Address Line 1:	P O BOX 1906
Address Line 4:	CYPRESS, TEXAS 77410-1906
ATTORNEY DOCKET NUMBER:	LAND-003B
NAME OF SUBMITTER:	Daniel J. Krueger
Total Attachments: 5 source=Assignment_Signed-COMBINED#page1.tif source=Assignment_Signed-COMBINED#page2.tif source=Assignment_Signed-COMBINED#page3.tif source=Assignment_Signed-COMBINED#page4.tif source=Assignment_Signed-COMBINED#page5.tif	

OP \$40.00 13142478

ASSIGNMENT

NOW, THEREFORE, TO ALL WHOM IT MAY CONCERN, BE IT KNOWN, that the undersigned inventor(s), for good and valuable consideration, the receipt and sufficiency of which is hereby acknowledged, **SHENGWEN JIN and SHIYONG XU**, having made an invention in “**DATA ACQUISITION AND PRESTACK MIGRATION BASED ON SEISMIC VISIBILITY ANALYSIS**” while in the employ of **HALLIBURTON ENERGY SERVICES, INC.**, a corporation organized and existing under the laws of the State of Delaware, doing business at 10200 Bellaire Boulevard, Houston, Texas 77072, (sometimes hereinafter called “ASSIGNEE”), do hereby ASSIGN, SELL and CONVEY to said ASSIGNEE, its successors and assigns, the entire right, title and interest throughout the world in and to:

1. Said invention in “**DATA ACQUISITION AND PRESTACK MIGRATION BASED ON SEISMIC VISIBILITY ANALYSIS**”;

2. The International PCT Patent Application on said invention, filed concurrently herewith or as PCT Patent Application No. PCT/US09/31400 filed January 19, 2009, (Attorney's File No. 1391-781.00) attorney is authorized to fill in the application number and filing date after the USPTO assigns them), entitled “**DATA ACQUISITION AND PRESTACK MIGRATION BASED ON SEISMIC VISIBILITY ANALYSIS**”;

3. All applications for patent or like protection on said invention that have now been or may in the future be made by us or our legal representatives, whether in the United States of America or any other place anywhere in the world;

4. All patents and like protection that have now been or may in the future be granted on said invention to us or our legal representatives, whether in the United States of America or in any other country or place anywhere in the world;

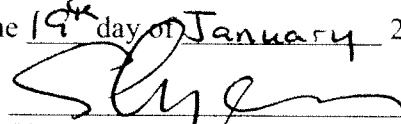
5. All substitutions for and divisions, continuations, continuations-in-part, renewals, reissues, extensions, and the like of said applications and patents and like grants, including without limitations, those obtained or permissible under past, present and future law and statutes;

6. All rights of action on account of past, present and future unauthorized use of said invention for infringement of said patents and like protection;

7. The right to ASSIGNEE to file in its name applications for patents and like protection for said invention in any country or countries foreign to the United States; and

8. All international rights of priority associated with said invention, applications, patents and like protection; and I (or We) covenant that I (or We), my (our) heirs, legal representatives, assigns, administrators, and executors will at the expense of ASSIGNEE, its successors and assigns, execute all papers and perform such other acts as may be reasonably necessary to give ASSIGNEE, its successors and assigns, the full benefit of this Assignment.


EXECUTED at HARRIS County, Texas, on the 19th day of January, 2009.


SHENGWEN JIN

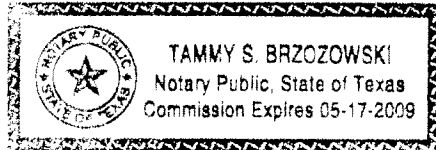
STATE OF TEXAS §
COUNTY OF HARRIS §

BEFORE ME, the undersigned authority, on this day personally appeared SHENGWEN JIN known to me to be the person whose name is subscribed to the foregoing instrument, and acknowledged to me that he executed the same for the purposes and consideration therein expressed.

GIVEN UNDER my hand and seal of office, this the 19th day of January, 2009.

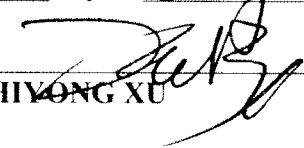

Notary Public

[SEAL]



My Commission Expires: 05-17-2009

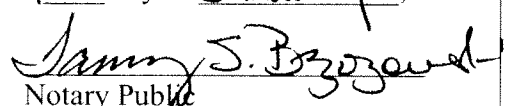
EXECUTED at HARRIS County, Texas, on the 9th day of January, 2009.


SHIYONG XU

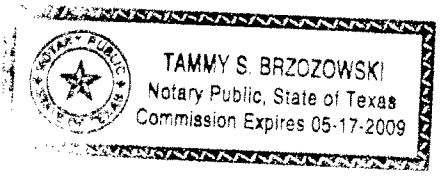
STATE OF TEXAS §
COUNTY OF HARRIS §

BEFORE ME, the undersigned authority, on this day personally appeared **SHIYONG XU** known to me to be the person whose name is subscribed to the foregoing instrument, and acknowledged to me that he executed the same for the purposes and consideration therein expressed.

GIVEN UNDER my hand and seal of office, this the 9th day of January, 2009.


Notary Public

[SEAL]



My Commission Expires: 05-17-2009

ASSIGNMENT

IN CONSIDERATION OF TEN DOLLARS (\$10.00) cash and other valuable consideration paid by **LANDMARK GRAPHICS CORPORATION**, a Delaware corporation with its principal place of business at 2107 City West Boulevard, Building 2, Houston, Texas 77042 ("ASSIGNEE"), the receipt and sufficiency of which are hereby acknowledged, **HALLIBURTON ENERGY SERVICES, INC.**, a corporation organized and existing under the laws of the State of Delaware, doing business at 10200 Bellaire Boulevard, Houston, Texas 77072 ("ASSIGNOR"), having acquired the rights identified herein below, do hereby ASSIGN, SELL and CONVEY, or do hereby affirm a previous such assignment, sale, and conveyance to ASSIGNEE, its successors and assigns, of the entire right, title and interest throughout the world in and to:

1. The following patent applications:

PCT Patent Application US09/31400, entitled "Data Acquisition and Pre-stack Migration Based on Seismic Visibility Analysis", and filed January 19, 2009, by Inventors Shengwen Jin and Shiyong Xu (Atty Dkt Nos. 2008-IP-018093 PCT / 1391-781.00);

PCT Patent Application US09/40793, entitled "Seismic Imaging Systems and Methods Employing a Fast Target-Oriented Illumination Calculation", and filed April 16, 2009, by Inventors Mingqiu Luo and Shengwen Jin (Atty Dkt Nos. 1391-782.00 / 2008-IP-018092 PCT);

2. The inventions disclosed in the above identified patent applications;
3. All applications for patent or like protection on said inventions that have now been or may in the future be made by us or our legal representatives, including any national phase, continuation, continuation-in-part and any other patent applications that may be based on this invention, whether in the United States of America or any other place anywhere in the world;
4. All patents and like protection that have now been or may in the future be granted on said inventions to the inventors, the ASSIGNOR, any intervening assignees, or any legal representatives thereof, whether in the United States of America or in any other country or place anywhere in the world;
5. All substitutions for and divisions, continuations, continuations-in-part, renewals, reissues, extensions, and the like of said applications and patents and like grants, including without limitation, those obtained or permissible under past, present and future laws and statutes;
6. All rights of action on account of past, present and future unauthorized use of said invention and for infringement of said patents and like protection;

7. The right in ASSIGNEE to file in its name applications for patents and like protection for said invention in any country or countries foreign to the United States; and
8. All international rights of priority associated with said invention, applications, patents, and like protection;

and ASSIGNOR covenants that it and its legal representatives, assigns, administrators, and executors, will, at the expense of ASSIGNEE, its successors and assigns, execute all papers and perform such other acts as may be reasonably necessary to give ASSIGNEE, its successors and assigns, the full benefit of this Assignment.

EXECUTED in Houston, Texas on the date indicated below, opposite my signature.

Date: 4-21-2009

HALLIBURTON ENERGY SERVICES, INC.

(ASSIGNOR)

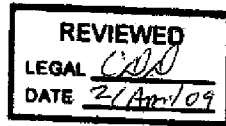
William E. Shull

WILLIAM E. SHULL

Senior Vice President and Chief Patent Counsel

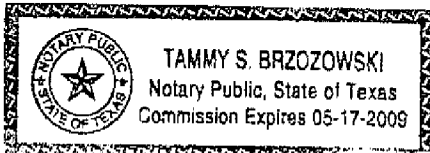
THE STATE OF TEXAS

HARRIS COUNTY



BEFORE ME, the undersigned authority, on this day personally appeared **WILLIAM E. SHULL**, known to me to be the person whose name is subscribed to the foregoing instrument, and acknowledged to me that he executed the same for the purposes and consideration therein expressed.

GIVEN UNDER MY HAND AND SEAL OF OFFICE, on this date April 21, 2009.



Tammy S. Brzozowski
Notary Public in and for the State of Texas

My Commission Expires: 05-17-2009