

PATENT ASSIGNMENT COVER SHEET

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| SUBMISSION TYPE: | NEW ASSIGNMENT |
| NATURE OF CONVEYANCE: | ASSIGNMENT |
| CONVEYING PARTY DATA | |
| Name | Execution Date |
| RICHARD J LANGENWALTER | 01/27/2015 |
| TOM C DAFFIN | 01/27/2015 |
| RECEIVING PARTY DATA | |
| Name: | LANDMARK GRAPHICS CORPORATION |
| Street Address: | 10200 BELLAIRE BLVD. |
| City: | HOUSTON |
| State/Country: | TEXAS |
| Postal Code: | 77072 |
| PROPERTY NUMBERS Total: 1 | |
| Property Type | Number |
| Application Number: | 13699514 |
| CORRESPONDENCE DATA | |
| Fax Number: | (713)658-1921 |
| <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> | |
| Phone: | 713-658-2323 |
| Email: | jharris@craincaton.com |
| Correspondent Name: | CRAIN CATON & JAMES |
| Address Line 1: | 1401 MCKINNEY, SUITE 1700 |
| Address Line 4: | HOUSTON, TEXAS 77010 |
| ATTORNEY DOCKET NUMBER: | 33849-577 |
| NAME OF SUBMITTER: | WILLIAM P. JENSEN |
| SIGNATURE: | /William P. Jensen/ |
| DATE SIGNED: | 04/21/2015 |
| Total Attachments: 3 | |
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ASSIGNMENT

WHEREAS, we **Richard J. Langenwalter, Fred B. Poland and Tom C. Daffin**, are the joint inventors of "**Systems and Methods for Horizontal Well Correlation and Geosteering**"; for which application papers were submitted on November 21, 2012 and assigned serial number 13/699,514 and,

WHEREAS, **Landmark Graphics Corporation ("Landmark")**, a Delaware Corporation, has equitable rights in and to this invention and desires to confirm such rights and to acquire all right, title and interest in and to said invention;

NOW THEREFORE, for valuable consideration received, we hereby sell, assign, and transfer to said **Landmark**, its successors, assigns, and designees all right, title and interest in and to said invention in the United States and in all other countries throughout the world; including without limitation those in and to the above-named application and any continuation, substitute or division application thereof and the patent or patents which may be issued thereon in the United States and any reissue of any such patent, and those in and to any application or patent or utility model in any and all such other countries of the world, and further including the right to file further applications in all countries throughout the world in the name of **Landmark** or whomsoever that company may nominate, and to claim the priority of the above-named PCT application under the International Convention of Paris of 1883.

And we hereby authorize and request the Commissioner of Patents and Trademarks to issue any and all Letters Patent of the United States on said invention or resulting from said application and from any and all divisions, continuations, and reissues thereof, to **Landmark**, its successors, assigns, designees or other legal representatives, as assignee of our entire interest, and hereby covenant that we have the full right to convey the entire interest herein assigned, and that we have not executed and will not execute any agreement in conflict herewith.

And we further hereby covenant and agree that we will, at any time, upon request, execute and deliver any and all papers that may be necessary or desirable to perfect the title of said invention and to such Letters Patent as may be granted therefore, to **Landmark**, its successors, assigns, designees, or other legal representatives and that if **Landmark**, its successors, assigns, designees or other legal representatives shall desire to file any divisional or continuation applications or to secure a reexamination or reissue of such Letters Patent, or to file a disclaimer relating thereto, will upon request, sign all papers, make all rightful oaths and do all lawful acts requisite for the filing of such divisional or continuation application, or such application for reissue and the procuring thereof, and for the filing of such disclaimer, without further compensation but at the expense of said assignee, its successors, designees or other legal representatives.

And we do further covenant and agree that we will, at any time upon request, communicate to **Landmark**, its successors, assigns, designees or other legal representatives, such facts relating to said invention and Letters Patent or the file history thereof as may be known to us, and testify as to the same in any interference or other litigation when requested so to do, without further compensation but at the expense of said assignee, designee, its successors, or other legal representatives.

And we hereby agree that we will upon request execute any instrument which **Landmark**, or whomsoever that company may nominate, desires to carry this assignment in effect, and perfect the title transferred hereby, or to prosecute any of the above-mentioned PCT applications or any foreign application on this invention.

IN TESTIMONY WHEREOF, I have executed this Assignment next to my name below, which shall be effective as of May 21, 2010.

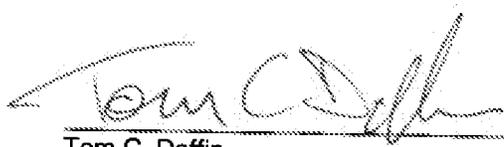
Signature:

Richard J. Langenwaiter
Richard J. Langenwaiter

1-27-15
Date

SUBSCRIBED AND SWORN TO BEFORE ME on this the 27 day of Jan, 2015, to certify which witness my hand and seal of office.

[Signature]
Notary Public

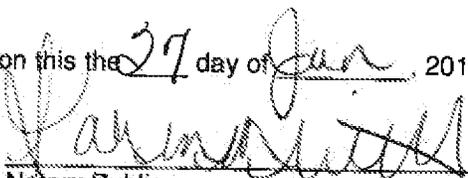


Tom C. Daffin

1-27-15

Date

SUBSCRIBED AND SWORN TO BEFORE ME on this the 27 day of Jan, 2015, to certify which witness my hand and seal of office.



Notary Public