PATENT ASSIGNMENT

Electronic Version v1.1 Stylesheet Version v1.1

SUBMISSION TYPE:		NEW ASSIGNMENT	
NATURE OF CONVEYANCE:		ASSIGNMENT	
CONVEYING PARTY DATA			
		Name	Execution Date
Roger Schultz 01/04/2011			
RECEIVING PARTY DATA			
Name:	HALLIBURTON ENERGY SERVICES, INC.		
Street Address:	10200 Bellaire Boulevard		
City:	Houston		
State/Country:	TEXAS		
Postal Code: 77072			
PROPERTY NUMBERS Total: 1			
Property Type		Number	
Application Number: 13004			
Application Number:	130	04352	
CORRESPONDENCE		04352	
CORRESPONDENCE	DATA		
CORRESPONDENCE	DATA (847)768-080		
CORRESPONDENCE Fax Number: <i>Correspondence will b</i> Phone:	DATA (847)768-080 De sent via US Mail 847-768-083)2 when the fax attempt is unsuccessful. 2	
CORRESPONDENCE Fax Number: <i>Correspondence will E</i> Phone: Email:	DATA (847)768-08(<i>be sent via US Mail</i> 847-768-083 mark.fejer@g)2 <i>when the fax attempt is unsuccessful.</i> 2 gastechnology.org	
CORRESPONDENCE Fax Number: <i>Correspondence will b</i> Phone:	DATA (847)768-080 <i>pe sent via US Mail</i> 847-768-083 mark.fejer@g MARK E. FE)2 <i>when the fax attempt is unsuccessful.</i> 2 jastechnology.org JER GAS TECHNOLOGY INSTITUTE	
CORRESPONDENCE Fax Number: <i>Correspondence will b</i> Phone: Email: Correspondent Name:	DATA (847)768-080 <i>be sent via US Mail</i> 847-768-083 mark.fejer@g MARK E. FE 1700 SOUTH)2 <i>when the fax attempt is unsuccessful.</i> 2 gastechnology.org	
CORRESPONDENCE Fax Number: <i>Correspondence will b</i> Phone: Email: Correspondent Name: Address Line 1:	DATA (847)768-080 <i>be sent via US Mail</i> 847-768-083 mark.fejer@g MARK E. FE 1700 SOUTH DES PLAINE	02 <i>when the fax attempt is unsuccessful.</i> 2 gastechnology.org JER GAS TECHNOLOGY INSTITUTE I MOUNT PROSPECT ROAD	
CORRESPONDENCE Fax Number: <i>Correspondence will E</i> Phone: Email: Correspondent Name: Address Line 1: Address Line 4:	DATA (847)768-080 <i>be sent via US Mail</i> 847-768-083 mark fejer@g MARK E. FE 1700 SOUTH DES PLAINE NUMBER:	02 <i>when the fax attempt is unsuccessful.</i> 2 gastechnology.org JER GAS TECHNOLOGY INSTITUTE 1 MOUNT PROSPECT ROAD (S, ILLINOIS 60018	

ASSIGNMENT

WHEREAS, I the following inventor

1. N R

Name:Roger SCHULTZResidence:Ninnekah, OklahomaPost Office Address:1164 County Rd 1460Ninnekah, Oklahoma 73067Ninnekah, Oklahoma 73067Citizenship:United States of America

hereinafter referred to as ASSIGNOR, have invented certain new and useful improvements in an invention entitled:

PURGING AND DEBRIS REMOVAL FROM HOLES

which is described and claimed in an application for Letters Patent of the United States executed by ASSIGNOR on even date herewith, and naming as inventors Hamid Ali ABBASI and Roger SCHULTZ; said improvements as described and claimed in said application for Letters Patent of the United States, being hereinafter referred to as said "Invention"; and

WHEREAS, HALLIBURTON ENERGY SERVICES, INC., a corporation duly organized and existing under and by virtue of the laws of the State of Delaware and having its principal office and place of business at 10200 Bellaire Boulevard, Houston, Texas 77072, hereinafter referred to as ASSIGNEE, is desirous of acquiring ASSIGNOR'S entire rights, title and interest in and to said Invention, and in, to and under Letters Patent therefor in the United States and countries foreign thereto;

NOW THEREFORE BE IT KNOWN THAT, for and in consideration of the sum of One Dollar (\$1.00) and other good and valuable consideration, the receipt and sufficiency of which is hereby acknowledged, ASSIGNOR has sold, assigned, transferred and set over and by these presents does hereby sell, assign, transfer and set over to and unto ASSIGNEE, its successors and assigns ASSIGNOR'S entire rights, title and interest in and to said Invention, and in, to and under the above-identified application and all other applications for Letters Patent of the United States and countries foreign thereto, and in, to and under all divisions, reissues, continuations, extensions and reexaminations thereof, and covenants that ASSIGNOR has the full right so to do; and the Commissioner of Patents is hereby authorized and requested to issue all United States Letters Patent on said Invention included herein to ASSIGNEE, as assignee of ASSIGNOR'S entire interest.

ASSIGNOR further agrees to communicate to ASSIGNEE or its representatives or agents all facts and information known or available to ASSIGNOR

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regarding said Invention including evidence for interference purposes or for other legal proceedings, whenever requested; to testify in any interference or other proceedings; to execute and deliver, on request, all lawful papers including original, divisional, continuing and reissue applications, renewals, assignments, powers of attorney, declarations, oaths, affidavits, depositions, etc.; and to generally do everything possible to aid ASSIGNEE, its successors and assigns, but at the expense of ASSIGNEE, in obtaining and enforcing proper protection for said Invention, in the United States and countries foreign thereto.

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<u>1-4-201)</u> Date

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Roger SCHULTZ

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RECORDED: 01/11/2011