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To the Director of the U.S. Patent and Trademark Office: Please record the attached documents or the new address(es) below.

1. Name of conveying party(ies)/Execution Date(s):
 Richard T. Hay - executed March 10, 2005
 Gerald Edward Kent - executed March 3, 2005
 David Leonwill Jones - executed March 4, 2005

Execution Date(s) as noted above _____
 Additional name(s) of conveying party(ies) attached? Yes No

2. Name and address of receiving party(ies)
 Name: Halliburton Energy Services, Inc.
 Internal Address: Building J, 3rd Floor
 Street Address: 3000 N. Sam Houston Pkwy. East
 City: Houston
 State: Texas
 Country: U.S.A. Zip: 770032
 Additional name(s) & address(es) attached? Yes No

3. Nature of conveyance:

Assignment Merger
 Security Agreement Change of Name
 Government Interest Assignment
 Executive Order 9424, Confirmatory License
 Other _____

4. Application or patent number(s): This document is being filed together with a new application.
 A. Patent Application No.(s)
11/006,641
 B. Patent No.(s)


 Additional numbers attached? Yes No

5. Name and address to whom correspondence concerning document should be mailed:
 Name: Terrence N. Kuharchuk
 Internal Address: _____
 Street Address: 1501 - 10060 Jasper Avenue
 City: Edmonton
 State: Alberta, Canada Zip: T5J 3R8
 Phone Number: 1-780-428-2960
 Fax Number: 1-780-423-6975
 Email Address: tnkuharchuk@smart-biggarr.ca

6. Total number of applications and patents involved: 1

7. Total fee (37 CFR 1.21(h) & 3.41) \$ 40.00
 Authorized to be charged by credit card
 Authorized to be charged to deposit account
 Enclosed
 None required (government interest not affecting title)

8. Payment Information
 a. Credit Card Last 4 Numbers _____
 Expiration Date _____
 b. Deposit Account Number 502334 Smart&Biggar
 Authorized User Name Terrence N. Kuharchuk

9. Signature:  _____
 Signature Date March 22, 2005
 Terrence N. Kuharchuk Total number of pages including cover sheet, attachments, and documents: 4
 Name of Person Signing

Documents to be recorded (including cover sheet) should be faxed to (703) 306-5995, or mailed to:
Mail Stop Assignment Recordation Services, Director of the USPTO, P.O.Box 1450, Alexandria, V.A. 22313-1450

CH \$40.00 502334 11006641

This Assignment of Invention dated this 8th day of December, 2004.

ASSIGNMENT OF INVENTION

WE, the undersigned:

- (a) **RICHARD T. HAY**
5 Lodgepole Crescent
St. Albert, Alberta
T8N 2R8
Canada

- (b) **GERALD EDWARD KENT**
#10 - 26120, Twp. Rd. 511
Spruce Grove, Alberta
T7Y 1B8
Canada

- (c) **DAVID LEONWILL JONES**
Apartment 1107, 1710 West Plato Road
Duncan, Oklahoma
73533
United States of America

(hereinafter referred to as the "Inventors") have made an invention entitled:

**DOWN HOLE DRILLING FLUID HEATING APPARATUS
AND METHOD**

as set forth and described in the following applications for Letters Patent:

- (a) in the United States of America under serial number 11/006,641, filed on December 8, 2004; and

- (b) in an International Application pursuant to the Patent Cooperation Treaty having the serial number PCT/CA2005/000021 and the international filing date of January 7, 2005;

(hereinafter collectively referred to as the "Invention").

FOR GOOD AND VALUABLE CONSIDERATION, the receipt and sufficiency of which are hereby acknowledged, we do hereby irrevocably assign, grant, sell, convey, transfer and make over unto the following:

HALLIBURTON ENERGY SERVICES, INC.
3000 N. Sam Houston Pkwy. East
Building J, 3rd Floor
Houston, Texas
United States of America
770032

our entire right, title and interest in and to the Invention, the PCT International Application listed herein including any patent applications in any country arising therefrom, the United States of America Patent Application listed herein, any and all other applications for Letters Patent for the Invention filed or to be filed in the United States of America and in any other country worldwide, including any and all applications for Letters Patent arising from or related to the Invention or any of the above listed applications for Letters Patent and any and all divisional or continuation applications thereof, and any and all patents issued and which may be issued or re-issued for the Invention in the United States of America and in any other country worldwide, together with the right to claim in respect of any country worldwide, any of the priority dates of the above listed applications for Letters Patent or any other applications for Letters Patent for the Invention filed in any country worldwide.

This Assignment shall enure to the benefit of and be binding upon the Inventors and Halliburton Energy Services, Inc. and their respective heirs, executors, administrators, successors and assigns.

IN WITNESS WHEREOF I have caused this Assignment to be signed and sealed at Houston, Texas, United States of America, this 10th day of March, 2005.

SIGNED, SEALED AND DELIVERED in the presence of:

[Signature]
(Witness)

[Signature]
RICHARD T. HAY

IN WITNESS WHEREOF I have caused this Assignment to be signed and sealed at Nisku, Alberta, Canada this 3rd day of March, 2005.

SIGNED, SEALED AND DELIVERED in the presence of:

[Signature]
(Witness)

[Signature]
GERALD EDWARD KENT

IN WITNESS WHEREOF I have caused this Assignment to be signed and sealed at Duncan, Stephens County, Oklahoma, United States of America, this 4th day of March, 2005.

SIGNED, SEALED AND DELIVERED in the presence of:

[Signature]
(Witness)

[Signature]
DAVID LEONWILL JONES