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COVER SHEET
JY

U.S. DEPARTMENT OF COMMERCE

MAY 19 1998

Patent and Trademark Office

To the Honorable Commissioner of Patents and Trademarks: Please record the attached original documents or copy thereof.

1. Name of conveying part(ies):

Gordon Sorrells, 2714 Country Club Parkway, Garland,
Texas 75043 and Norman R. Warpinski, 7129 Kiowa, N.E.,
Albuquerque, New Mexico

Additional name(s) of conveying party(ies) attached? ☐ Yes ☒ No

2. Name and address of receiving party(ies)

Name: Gas Research Institute
Street Address: 8600 West Bryn Mawr Avenue
Chicago, Illinois 60631

Additional name(s) & address(es) attached? ☐ Yes ☒ No

3. Nature of conveyance:

☒ Assignment ☐ Merger
☐ Security Agreement ☐ Change of Name
☐ Other:

Execution Date: 1/20/98 and 1/12/98

4. Application number(s) or patent number(s):

If this document is being filed together with a new application, the execution date of the application is:

A. Patent application No.(s)

B. Patent No.(s)

09/015,457

Additional numbers attached? ☐ Yes ☐ No

5. Name and address of party to whom correspondence concerning document should be mailed:

Scott A. Horstemeyer
Thomas, Kayden, Horstemeyer & Risley, L.L.P.
100 Galleria Parkway, Suite 1500
Atlanta, Georgia 30339

6. Total number of applications/patents involved: [1]

7. Total fee (37 CFR 3.41) Fee previously paid

☐ Enclosed
☐ Authorized to be charged to deposit account

8. Deposit Account Number:

20-0778

(Attach duplicate copy of this page if paying by Deposit Account)

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9. Statement and signature.

To the best of my knowledge and belief, the foregoing information is true and correct and any attached copy is a
true copy of the original document.

Dan R. Gresham, Registration No. P-41,805

5/15/98

Date

Docket #: 50704-1400

Total number of pages including cover sheet, attachments, and document: [4]

Mail documents to be recorded with required cover sheet information to:

Assistant Commissioner for Patents, Box Assignments

Washington, D.C. 20231

AssignCoverSht

PATENT

REEL: 9201 FRAME: 0208

MRD 5-19-98

ASSIGNMENT

WHEREAS we, Gordon Sorrells, residing at 2714 Country Club Parkway, Garland, Texas 75043; and Norman R. Warpinski, residing at 7129 Kiowa, NE, Albuquerque, NM 87110, both citizens of the United States of America have invented certain new and useful improvements in a **“SYSTEM AND METHOD FOR DETERMINING THE DISTRIBUTION AND ORIENTATION OF NATURAL FRACTURES”**;

AND Gas Research Institute, Inc., an Illinois corporation having a principal place of business at 8600 West Bryn Mawr Avenue, Chicago, IL 60631-3562 desire to purchase the same;

NOW, THEREFORE, TO ALL WHOM IT MAY CONCERN, BE IT KNOWN THAT, for good and valuable consideration, the receipt of which is hereby acknowledged, we have sold, assigned and transferred, and do hereby sell, assign and transfer unto said Gas Research Institute, Inc., their successors and assigns, the entire right, title and interest in and to the said invention as fully set forth and described in the specification forming a part of said application for Letters Patent of the United States, and in and to said application, and in and to any and all Letters Patent of the United States which may be issued thereon, and any and all Letters Patent which may be granted for said invention in foreign countries, for the use and benefit of said Gas Research Institute, their successors and assigns.

AND we do hereby authorize and request the U.S. Commissioner of Patents and Trademarks to issue the said Letters Patent of the United States which may be granted upon said application, or upon any divisional, continuing, substitute, reissue or renewal application or applications, to said Gas Research Institute, as the assignee of the entire right, title and interest in and to the same.

AND we do hereby agree properly to execute and sign without further compensation any powers of attorney, assignments, applications or other papers which may be necessary fully to secure to said Gas Research Institute their successors and assigns, the invention shown and

For The Invention Entitled: "System And Method For Determining The
Distribution And Orientation Of Natural Fractures"

described in said application in this or any foreign country, and also to sign any divisional, continuing, substitute, reissue or renewal application or applications which may be desired by the owner of the Letters Patent or Letters Patents which may be issued for the said invention.

AND we do hereby authorize the insertion of the Serial Number of the above-referenced application for Letters Patent of the United States if it is not known at the execution date of this Assignment.

IN WITNESS WHEREOF, we have hereunto set our hand and affixed our seal on the date set out below.

First Inventor's Signature Gordon Sorrells
Gordon Sorrells

Date 1/20/98

Paul J. Alden
WITNESS
Karl D. Thomason
WITNESS

Second Inventor's Signature Norman R. Warpinski
Norman R. Warpinski

Date 1/12/98

Bruce F. Engler
WITNESS
James E. Uhl
WITNESS