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U.S. DEPARTMENT OF COMMERCE  
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102285496

To the Honorable Commissioner of Patents and Trademarks

by thereof.

1. Name of conveying party(ies):

Eric Pierre de Rouffignac; Ilya Emil Berchenko; Thomas David Fowler; Bruce Gerard Hunsucker; John Michael Karanikas; Charles Robert Keedy; Robert Charles Ryan; Harold J. Vinegar; Scott Lee Wellington; and Etuan Zhang

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

10-17-02

2. Name and address of receiving party(ies):

Name: Shell Oil Company

Internal Address: \_\_\_\_\_

Street Address: P. O. Box 2463

City Houston State Texas ZIP 77252-8463

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

3. Nature of Conveyance:

- ☒ Assignment ☐ Merger  
☐ Security Agreement ☐ Change of Name  
☐ Other \_\_\_\_\_

Execution Date: September 27, 2002

4. Application number:

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

A. Patent Application No.(s) 10/131,349 filed April 24, 2002 and entitled:  
**IN SITU THERMAL PROCESSING OF A RELATIVELY IMPERMEABLE FORMATION USING AN OPEN WELLBORE**

Additional numbers attached? ☐ Yes ☒ No

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

Eric B. Meyertons  
Conley, Rose & Tayon, P.C.  
P.O. Box 398  
Austin, TX 78767-0398

6. Total number of applications and patents involved: 1

7. Total fee (37 CFR 3.41): .....\$ 40.00

- ☒ Authorized to be charged to deposit account  
☐ Fee previously paid

8. Deposit account number: 19-1800/TH2283  
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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.*

Eric B. Meyertons  
Name of Person Signing  
Reg. No. 34,876

[Signature]  
Signature

10/11/02  
Date

Total number of sheets (including cover sheet, attachments, and documents): 4

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PATENT  
REEL: 013487 FRAME: 0623

ASSIGNMENT

WHEREAS, we, Eric Pierre de Rouffignac, Ilya Emil Berchenko, Thomas David Fowler, Bruce Gerard Hunsucker, John Michael Karanikas, Charles Robert Keedy, Robert Charles Ryan, Harold J. Vinegar, Scott Lee Wellington, and Etuan Zhang, have made a certain improvement in **“IN SITU THERMAL PROCESSING OF A RELATIVELY IMPERMEABLE FORMATION USING AN OPEN WELLBORE”** for which application papers for United States Patent thereon, identified as U.S. Patent Application Serial No. 10/131,349 filed April 24, 2002, have been executed by us, and,

WHEREAS, SHELL OIL COMPANY, 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 SHELL OIL COMPANY, its successors and assigns, 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 SHELL OIL COMPANY or whomsoever that company may nominate, and to claim the priority of the above-named United States application under the International Convention of Paris of 1883.

With respect to any country where for the filing of such an application and/or the transfer of priority rights a separate deed of sale, assignment or transfer is required, we will undertake at the request of SHELL OIL COMPANY to execute such separate deed to SHELL OIL COMPANY or to whomsoever that company may nominate.

And we hereby agree that we will upon request execute any instrument which SHELL OIL COMPANY desires to carry this assignment in effect, and perfect the title transferred hereby, or to prosecute any of the above-mentioned United States applications or any foreign application on this invention.

And the Commissioner of Patents of the United States is hereby authorized to issue Letters Patent on said above-named application and on any continuation, substitute or division thereof to SHELL OIL COMPANY.

IN TESTIMONY WHEREOF, we have hereunto subscribed our names.

Witnesses:

[Signature]  
742 Schell

Eric de Rouffignac  
Eric Pierre de Rouffignac

Sept. 23, '02  
Date

[Signature]  
Jan Ray

[Signature]  
Ilya Emil Berchenko

09/18/02  
Date

NOEL ARONSTAM

Thomas David Fowler  
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