To the Honorable Commissioner of Patents and Trademarks. Please re-

1. Name of conveying party(ies):

Harold J. Vinegar; George Leo Stegemeier; Dannie Antoine Aymond Jr.;
Billy John McKinzie, II; John Michael Ward; Kevin Albert Maher;
Ronnie Wade Watkins; Bruce Donald Palfreyman; and Scott Lee
Wellington

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

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: February 25, 2003

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) 10/279,291 filed October 24, 2002 and entitled:
   IN SITU RECOVERY FROM A HYDROCARBON CONTAINING FORMATION USING BARRIERS

Additional numbers attached? □ Yes □ No

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

   Eric B. Meyertons
   Meyertons, Hood, Kivlin, Kowert & Goetzell, P.C.
   P.O. Box 398
   Austin, TX 78767-0398

6. Total number of applications and patents involved: ___

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/TH2333
   (Attach a duplicate copy of this page if paying by deposit account)

DO NOT USE THIS SPACE

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.

   ____________________________  ____________________________
   Name of Person Signing      Signature       Date
   Reg. No. 39,338

OMB No. 0651-011 (exp.4/94)

PATENT
REEL: 013847 FRAME: 0172
ASSIGNMENT

WHEREAS, we, Harold J. Vinegar, George Leo Stegemeier, Dannie Antoine Aymond Jr., Billy John McKinzie, II, John Michael Ward, Kevin Albert Maher, Ronnie Wade Watkins, Bruce Donald Palfreyman, and Scott Lee Wellington, have made a certain improvement in "IN SITU RECOVERY FROM A HYDROCARBON CONTAINING FORMATION USING BARRIERS" for which application papers for United States Patent thereon, identified as U.S. Patent Application Serial No. 10/279,291 filed October 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:

Diana Barnes

Houses

Delma Happi

Dann Jo Aymond Jr.

Dee R. Bagg

Dane J. McKinzie, II

Tom Voggene

Kevin Albert Maher

Hans J. Vinegar

Jan. 31, 2003

George Leo Stegemeier

2/6/03

Dannie Antoine Aymond Jr.

2/25/03

Billy John McKinzie, II

1/28/03

John Michael Ward

1/28/03

Kevin Albert Maher

28 Jan. 03
Witnesses:

D.O. McDermott
Bruce Donald Palfreyman
Scott Lee Wellington

Ronnie Wade Watkins

1/28/03
1/28/03
Feb. 3, 2003

Date
Date
Date