

(+) DENOTES LOCATION OF WELL ON UNITED STATES TOPOGRAPHIC MAPS

FILE NO. BK 117 PG 45  
 DRAWING NO. \_\_\_\_\_  
 SCALE 1" = 400'  
 MINIMUM DEGREE OF ACCURACY 1:2500'  
 PROVEN SOURCE OF ELEVATION Road forks west of location E1 652'

I THE UNDERSIGNED, HEREBY CERTIFY THAT THIS PLAT IS CORRECT TO THE BEST OF MY KNOWLEDGE AND BELIEF AND SHOWS ALL THE INFORMATION REQUIRED BY LAW AND THE REGULATIONS ISSUED AND PRESCRIBED BY THE DEPARTMENT OF ENERGY.  
 (SIGNED) C. J. Volley Jr.  
 R.P.E. \_\_\_\_\_ I.L.S. 92

PLACE SEAL HERE

**STATE OF WEST VIRGINIA**  
 DEPARTMENT OF ENERGY  
 OIL AND GAS DIVISION



DATE OCT 18, 1989  
 OPERATOR'S WELL NO. SELLERS 3  
 API WELL NO. \_\_\_\_\_

WELL TYPE: OIL  GAS  LIQUID INJECTION \_\_\_\_\_ WASTE DISPOSAL \_\_\_\_\_  
 (IF "GAS,") PRODUCTION  STORAGE \_\_\_\_\_ DEEP \_\_\_\_\_ SHALLOW   
 LOCATION: ELEVATION 764.0' WATERSHED Mc COLLINS RUN OF SOUTH FORK LEE CREEK  
 DISTRICT HARRIS 2 COUNTY WOOD  
 QUADRANGLE POND CREEK Belleville/C  
 SURFACE OWNER M. E. SELLERS ACREAGE 233  
 OIL & GAS ROYALTY OWNER M. E. SELLERS LEASE ACREAGE 233

PROPOSED WORK: DRILL  CONVERT \_\_\_\_\_ DRILL DEEPER \_\_\_\_\_ REDRILL \_\_\_\_\_ FRACTURE OR STIMULATE  PLUG OFF OLD FORMATION \_\_\_\_\_ PERFORATE NEW FORMATION \_\_\_\_\_ OTHER PHYSICAL CHANGE IN WELL (SPECIFY) \_\_\_\_\_

PLUG AND ABANDON \_\_\_\_\_ CLEAN OUT AND REPLUG \_\_\_\_\_  
 TARGET FORMATION DEVONIAN SHALE ESTIMATED DEPTH 4000'  
 WELL OPERATOR H.D. WELLS OIL & GAS EXP. & DEV. DESIGNATED AGENT H.D. WELLS  
 ADDRESS P.O. BOX 1785 CHARLESTON WV 25326 ADDRESS P.O. BOX 1785 CHARLESTON WV 25326

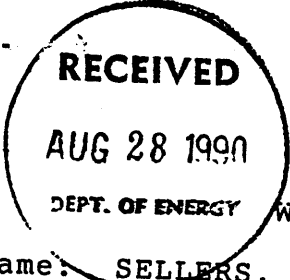
JUN 29 1990

943

W-6 New England (296)

FORM WW-6

COUNTY NAME PERMIT



State of West Virginia  
DEPARTMENT OF ENERGY  
Division of Oil and Gas

Well Operator's Report of Well Work

Farm name: SELLERS, M. E.

Operator Well No.: SELLERS 3

LOCATION: Elevation: 764.00      Quadrangle: POND CREEK

District: HARRIS      County: WOOD  
Latitude: 3400 Feet South of 39 Deg. 7 Min. 30 Sec.  
Longitude 81 Feet West of 42 Deg. 30 Min. Sec.

Company: WELLS, H. D. OIL & GAS EX  
POST OFFICE BOX 1785  
CHARLESTON, WV 25326-0000

Agent: HARLEY D. WELLS

Inspector: GLEN P. ROBINSON  
Permit Issued: 06/29/90  
Well work Commenced: 08/02/90  
Well work Completed: 08/09/90  
Verbal Plugging \_\_\_\_\_  
Permission granted on: \_\_\_\_\_  
Rotary X Cable \_\_\_\_\_ Rig \_\_\_\_\_  
Total Depth (feet) 2125  
Fresh water depths (ft) 103  
Salt water depths (ft) 1068  
Is coal being mined in area (Y/N)? N  
Coal Depths (ft): \_\_\_\_\_

| Casing & Tubing Size | Used in Drilling | Left in Well | Cement Fill Up Cu. Ft. |
|----------------------|------------------|--------------|------------------------|
| 8 5/8                | 401              | 401          | 140 sks                |
| 4 1/2                | 2035             | 2035         | 65 sks                 |
|                      |                  |              |                        |
|                      |                  |              |                        |
|                      |                  |              |                        |

OPEN FLOW DATA

Producing formation Berea      Pay zone depth (ft) 2030  
 Gas: Initial open flow 20 MCF/d      Oil: Initial open flow show Bbl/d  
       Final open flow 30 MCF/d      Final open flow 1 Bbl/d  
 Time of open flow between initial and final tests 8 Hours  
 Static rock Pressure 480 psig (surface pressure) after 4 Hours

Second producing formation \_\_\_\_\_      Pay zone depth (ft) \_\_\_\_\_  
 Gas: Initial open flow \_\_\_\_\_ MCF/d      Oil: Initial open flow \_\_\_\_\_ Bbl/d  
       Final open flow \_\_\_\_\_ MCF/d      Final open flow \_\_\_\_\_ Bbl/d  
 Time of open flow between initial and final tests \_\_\_\_\_ Hours  
 Static rock Pressure \_\_\_\_\_ psig (surface pressure) after \_\_\_\_\_ Hours

NOTE: ON BACK OF THIS FORM PUT THE FOLLOWING: 1). DETAILS OF PERFORATED INTERVALS, FRACTURING OR STIMULATING, PHYSICAL CHANGE, ETC. 2). THE WELL LOG WHICH IS A SYSTEMATIC DETAILED GEOLOGICAL RECORD OF ALL FORMATIONS, INCLUDING COAL ENCOUNTERED BY THE WELLBORE.

For: WELLS, H. D. OIL & GAS EXP. & DEV. INC.

By: \_\_\_\_\_  
Date: 08/27/90

Perf: Berea 2030'-2032' 9 holes

Foam Frac: 50,000 lbs 20/40 sand  
250 gal methanol  
548,000 SCF nitrogen



| Formation    | Top Ft. | Bottom Ft. |                    |
|--------------|---------|------------|--------------------|
| Clay Red     | 0       | 100        |                    |
| Shale Dark   | 100     | 176        | Fresh Water @ 103' |
| Sand & Shale | 176     | 540        |                    |
| Red Rock     | 540     | 812        |                    |
| Shale        | 812     | 989        |                    |
| Sand-Salt    | 989     | 1254       | Salt Water @1068'  |
| Shale        | 1254    | 1665       |                    |
| Injun Sand   | 1665    | 1740       |                    |
| Shale        | 1740    | 2030       |                    |
| Berea        | 2030    | 2032       |                    |
| Shale        | 2032    | 2125       | Total Depth        |

10332

47-107-1457  
 Drilled 6/29/90  
 Expires 6/29/92 Page 3 of 3

**STATE OF WEST VIRGINIA  
 DEPARTMENT OF ENERGY, DIVISION OF OIL AND GAS  
 WELL WORK PERMIT APPLICATION**

- 1) Well Operator: <sup>943</sup> H. D. Wells Oil & Gas Exp. & Dev., Inc. 52900 (2) 552
- 2) Operator's Well Number: Sellers No. 3 3) Elevation: 764.0
- 4) Well type: (a) Oil \_\_\_ / or Gas x /  
 (b) If Gas: Production x / Underground Storage \_\_\_  
 Deep \_\_\_ / Shallow \_\_\_
- 5) Proposed Target Formation(s): <sup>395</sup> Berea Sandstone
- 6) Proposed Total Depth: 2500 feet
- 7) Approximate fresh water strata depths: 95' / 290'
- 8) Approximate salt water depths: 1000' OK
- 9) Approximate coal seam depths: n/a OK
- 10) Does land contain coal seams tributary to active mine? Yes \_\_\_ / No x /
- 11) Proposed Well Work: Drill & Stimulate New Well
- 12)

**CASING AND TUBING PROGRAM**

| TYPE         | SPECIFICATIONS |       |                | FOOTAGE INTERVALS |                  | CEMENT            |
|--------------|----------------|-------|----------------|-------------------|------------------|-------------------|
|              | Size           | Grade | Weight per ft. | For drilling      | Left in well     | Fill-up (cu. ft.) |
| Conductor    |                |       |                |                   |                  | 38CSR1811.3       |
| Fresh Water  | 8 5/8"         | J55   |                | 400'              | 400' <i>cts</i>  | 200 sacks         |
| Coal         |                |       |                |                   |                  |                   |
| Intermediate |                |       |                |                   |                  |                   |
| Production   | 4 1/2"         | J55   |                | 2500'             | 2500' <i>cts</i> | 1000 ft.          |
| Tubing       |                |       |                |                   |                  | 38CSR1811.1       |
| Liners       |                |       |                |                   |                  |                   |

PACKERS : Kind \_\_\_\_\_  
 Sizes \_\_\_\_\_  
 Depths set \_\_\_\_\_

**RECEIVED**  
 Division of Energy  
 JUN 19 90

For Division of Oil and Gas Use Only

5750 #16

Fee(s) paid:  Well Work Permit  Reclamation Fund  WPCP  
 Plat  WW-9  WW-2B  Bond *Blanketone*  Agent

Permitting  
 Oil and Gas Section

**RECEIVED**

Division of Energy

**JUN 11 9 90**

Permitting  
Oil and Gas Section

Page 1 of 3  
Form WW2-A  
(09/87)  
File Copy

1) Date: June 11, 1990  
2) Operator's well number  
Sellers No. 3  
3) API Well No: 47 - 107 - 1457  
State - County - Permit

STATE OF WEST VIRGINIA  
DEPARTMENT OF ENERGY, DIVISION OF OIL AND GAS

NOTICE AND APPLICATION FOR A WELL WORK PERMIT

- 4) Surface Owner(s) to be served:
- (a) Name M. E. Sellers  
Address Belleville, WV 26133
  - (b) Name \_\_\_\_\_  
Address \_\_\_\_\_
  - (c) Name \_\_\_\_\_  
Address \_\_\_\_\_
- 5) (a) Coal Operator:
- Name n/a  
Address \_\_\_\_\_
  - (b) Coal Owner(s) with Declaration  
Name n/a  
Address \_\_\_\_\_
  - Name \_\_\_\_\_  
Address \_\_\_\_\_
  - (c) Coal Lessee with Declaration  
Name n/a  
Address \_\_\_\_\_
- 6) Inspector Glen P. Robinson  
Address Rt. 1, #6 Mt. Pleasant Est.  
Mineral Wells, WV 26150  
Telephone (304)-489-2736

TO THE PERSON(S) NAMED ABOVE TAKE NOTICE THAT:

       Included is the lease or leases or other continuing contract or contracts by which I hold the right to extract oil and gas OR  
  x   Included is the information required by Chapter 22B, Article 1, Section 8(d) of the Code of West Virginia (see page 2)

I certify that as required under Chapter 22B of the West Virginia Code I have served copies of this notice and application, a location plat, and accompanying documents pages 1 through 3 on the above named parties, by:

- Personal Service (Affidavit attached)
- x   Certified Mail (Postmarked postal receipt attached)
- Publication (Notice of Publication attached)

I have read and understand Chapter 22B and 38 CSR 11-18, and I agree to the terms and conditions of any permit issued under this application.

I certify under penalty of law that I have personally examined and am familiar with the information submitted on this application form and all attachments, and that based on my inquiry of those individuals immediately responsible for obtaining the information, I believe that the information is true, accurate, and complete.

I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment.

Well Operator H. D. Wells Oil & Gas Exp. & Dev., Inc.  
By: [Signature]  
Its: President  
Address P.O. Box 1785  
Charleston, WV 25326  
Telephone 346-2829

Subscribed and sworn before me this 11th day of June, 19 90

[Signature] Notary Public  
My commission expires November 20, 1995