

LORENA ARRINGTON  
DB 135 P 415

Card CSD

LATITUDE 38°40'00"

MONROE DEAL JR  
D.B 157 P 168

DB 195 P 158

15' rope 2.67S  
3.69W

ELMER F.  
LOWRY  
W.B 17 P 293

LONGITUDE 82°05'-15"  
82°07'-30"  
82°05'

NORTH

N 86°20'W - 2475.85

Fen. Coy.

588°30'W

Fen. Coy.

N 89°W

N 76°18'E - 669.59

N 85°32'W

769.07

COL. GAS

Fence Corner

W.F. NIBERT  
DB 195 P 158  
PT. C-2-484

DONALD MCCOY  
DB 133 P 450

G.C. DEAL  
DB 113 P 234

E. GILLISPIE  
DB 130 P 403

2.67S  
1.44W

FILE NO. BK 82 P 62  
DRAWING NO. \_\_\_\_\_  
SCALE 1" = 500'  
MINIMUM DEGREE OF  
ACCURACY 1:200  
PROVEN SOURCE OF  
ELEVATION USGS Road Forks  
4000'± NW LOC E1 554

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 REGU-  
LATIONS ISSUED AND PRESCRIBED BY THE DEPART-  
MENT OF MINES.

(SIGNED) C.S. Valley Jr.  
R.P.E. \_\_\_\_\_

PLACE SEAL HERE

(+) DENOTES LOCATION OF  
WELL ON UNITED STATES  
TOPOGRAPHIC MAPS  
FORM IV-B  
(8-78)



DATE FEB 27, 1984  
OPERATOR'S WELL NO. 2030-2  
API WELL NO.  
47-053-0352  
STATE COUNTY PERMIT

STATE OF WEST VIRGINIA  
DEPARTMENT OF MINES  
OIL AND GAS DIVISION

WELL TYPE: OIL \_\_\_ GAS X LIQUID INJECTION \_\_\_ WASTE DISPOSAL \_\_\_  
(IF "GAS,") PRODUCTION X STORAGE \_\_\_ DEEP \_\_\_ SHALLOW X  
LOCATION: ELEVATION 588.0 WATERSHED SIXTEENMILE CREEK  
DISTRICT HANNAN COUNTY MASON  
QUADRANGLE APPLE GROVE Glenwood 15' C5  
SURFACE OWNER W.F. NIBERT ACRES 261  
OIL & GAS ROYALTY OWNER W.F. NIBERT LEASE ACRES 261  
LEASE NO. C-2-484  
PROPOSED WORK: DRILL X CONVERT \_\_\_ DRILL DEEPER \_\_\_ REDRILL \_\_\_ FRACTURE OR  
STIMULATE X 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 3500'  
WELL OPERATOR UNION DRILLING INC. DESIGNATED AGENT JOSEPH VANZANT APR 9 1984  
ADDRESS P.O. DRAWER 40 ADDRESS P.O. DRAWER 40  
BUCKHANNON WV 26201 BUCKHANNON WV 26201



Date October 22, 1984  
 Operator's Well No. 2 - 2030  
 Farm W. Forrest Nibert #2  
 API No. 47 - 053 - 0352

IV-35 (Rev 8-81)  
**RECEIVED**  
 OCT 23 1984  
 OIL & GAS DIVISION  
 DEPT. OF MINES

State of West Virginia  
 Department of Mines  
 Oil and Gas Division

WELL OPERATOR'S REPORT  
 OF  
DRILLING, FRACTURING AND/OR STIMULATING, OR PHYSICAL CHANGE

WELL TYPE: Oil \_\_\_ / Gas x / Liquid Injection \_\_\_ / Waste Disposal \_\_\_ /  
 (If "Gas," Production \_\_\_ / Underground Storage \_\_\_ / Deep \_\_\_ / Shallow x /)

LOCATION: Elevation: 588' Watershed Sixteenmile Creek  
 District: Hannan County Mason Quadrangle Apple Grove

COMPANY Union Drilling, Inc.  
 ADDRESS P.O. Drawer 40, Buckhannon, WV 26201  
 DESIGNATED AGENT Joseph C. Vanzant, Jr.  
 ADDRESS P.O. Drawer 49, Buckhannon, WV 26201  
 SURFACE OWNER W. Forrest Nibert  
 ADDRESS Gen. Del., WV St Rt. 2, Apple Grove, WV 25502  
 MINERAL RIGHTS OWNER same  
 ADDRESS \_\_\_\_\_  
 OIL AND GAS INSPECTOR FOR THIS WORK \_\_\_\_\_  
 Jerry Tephacock ADDRESS Rt. 1, Box 101-A, Ripley, WV 25271  
 PERMIT ISSUED 4/6/84  
 DRILLING COMMENCED 9/29/84  
 DRILLING COMPLETED 10/5/84

| Casing & Tubing  | Used in Drilling | Left in Well | Cement fill up Cu. ft. |
|------------------|------------------|--------------|------------------------|
| Size 20-16 Cord. |                  |              |                        |
| 13-10"           |                  |              |                        |
| 9 5/8            | 544.00'          | 544.00'      |                        |
| 8 5/8            |                  |              |                        |
| 7                | 2012.60'         | 727.15'      | 232 cf                 |
| 5 1/2            |                  |              |                        |
| 4 1/2            |                  | 3305.10'     | 151 cf                 |
| 3                |                  |              |                        |
| 2                |                  |              |                        |
| Liners used      |                  |              |                        |

IF APPLICABLE: PLUGGING OF DRY HOLE ON CONTINUOUS PROGRESSION FROM DRILLING OR REWORKING. VERBAL PERMISSION OBTAINED ON \_\_\_\_\_

GEOLOGICAL TARGET FORMATION Devonian Shale Depth 3500' feet  
 Depth of completed well 3416' feet Rotary XX / Cable Tools \_\_\_\_\_  
 Water strata depth: Fresh \_\_\_\_\_ feet; Salt 686', 1205' feet  
 Coal seam depths: 372/375 Is coal being mined in the area? no

OPEN FLOW DATA  
 Producing formation Upper Huron, Lower Huron Pay zone depth 3106' feet  
 Gas: Initial open flow show Mcf/d Oil: Initial open flow \_\_\_\_\_ Bbl/d  
 Final open flow 146 Mcf/d Final open flow \_\_\_\_\_ Bbl/d  
 Time of open flow between initial and final tests 2 hours  
 Static rock pressure 710# psig (surface measurement) after 24 hours shut in  
 (If applicable due to multiple completion--)  
 Second producing formation \_\_\_\_\_ Pay zone depth \_\_\_\_\_ feet  
 Gas: Initial open flow \_\_\_\_\_ Mcf/d Oil: Initial open flow \_\_\_\_\_ Bbl/d  
 Final open flow \_\_\_\_\_ Mcf/d Oil: Final open flow \_\_\_\_\_ Bbl/d  
 Time of open flow between initial and final tests \_\_\_\_\_ hours  
 Static rock pressure \_\_\_\_\_ psig (surface measurement) after \_\_\_\_\_ hours shut in

DETAILS OF PERFORATED INTERVALS, FRACTURING OR STIMULATING, PHYSICAL CHANGE, ETC.

2780/3106 - Upper Huron - 60,000# sand, 236 Bbls water and 980,000 scf nitrogen  
Lower Huron

WELL LOG

| FORMATION         | COLOR | HARD OR SOFT | TOP FEET | BOTTOM FEET | REMARKS   |
|-------------------|-------|--------------|----------|-------------|---|
|                   |       |              |          |             | Including indication of all fresh and salt water, coal, oil and gas |
| Sand & Shale      |       |              | 0        | 372         |   |
| Coal              |       |              | 372      | 375         | 1/2" stream salt water @686'  |
| Sand & Shale      |       |              | 375      | 1335        | 2 1/2" stream salt water @1205'                                     |
| Big Lime          |       |              | 1335     | 1435        |   |
| Injun             |       |              | 1450     | 1580        | 2" stream salt water @1687'   |
| Berea             |       |              | 1902     | 1926        |   |
| Top of Devonian   |       |              | 1942     |             |   |
| Upper Huron Shale |       |              | 2761     | 2788        |   |
| Lower Huron Shale |       |              | 2828     | 3108        |   |
|                   |       |              |          | 3416'       | T.D. gas odor   |

from GP log, etc.  
210  
RH  
8-11-84

(Attach separate sheets as necessary)

UNION DRILLING, INC.

Well Operator

By: Joseph C. Pettey  
Date: Joseph C. Pettey, Vice President of Production

October 22, 1984

Note: Regulation 2.02(i) provides as follows:  
"The term 'log' or 'well log' shall mean a systematic detailed geological record of all formations, including ..., encountered in the drilling of a well."



1) Date: March 16, 19 84  
 2) Operator's Well No. 2030 - 2  
 3) API Well No. 47 - 053 - 0352  
 State County Permit

STATE OF WEST VIRGINIA  
 DEPARTMENT OF MINES, OIL AND GAS DIVISION  
**APPLICATION FOR A WELL WORK PERMIT**

- 4) WELL TYPE: A Oil  / Gas   
 B (If "Gas", Production  / Underground storage  / Deep  / Shallow )
- 5) LOCATION: Elevation: 588.0 Watershed: Sixteenmile Creek  
 District: Hannan County: Mason Quadrangle: Apple Grove
- 6) WELL OPERATOR Union Drilling, Inc. 7) DESIGNATED AGENT Joseph C. Vanzant, Jr.  
 Address Post Office Drawer 40 Address Post Office Drawer 40  
Buckhannon, WV 26201 Buckhannon, WV 26201
- 8) OIL & GAS INSPECTOR TO BE NOTIFIED 9) DRILLING CONTRACTOR:  
 Name Jerry Tephabock Name Union Drilling, Inc.  
 Address Route 1, Box 101-A Address Post Office Drawer 40  
Ripley, WV 25271 Buckhannon, WV 26201
- 10) PROPOSED WELL WORK: Drill  / Drill deeper  / Redrill  / Stimulate   
 Plug off old formation  / Perforate new formation   
 Other physical change in well (specify) \_\_\_\_\_
- 11) GEOLOGICAL TARGET FORMATION, Devonian Shale
- 12) Estimated depth of completed well, 3500 feet  
 13) Approximate trata depths: Fresh, ? feet; salt, ? feet.  
 14) Approximate coal seam depths: ? Is coal being mined in the area? Yes

RECEIVED  
 MAR 19 1984  
 OIL & GAS DIVISION  
 DEPT. OF MINE

15) CASING AND TUBING PROGRAM

| CASING OR TUBING TYPE | SPECIFICATIONS |       |                |     |      | FOOTAGE INTERVALS |              | CEMENT FILL-UP OR SACKS (Cubic feet) | PACKERS       |  |
|-----------------------|----------------|-------|----------------|-----|------|-------------------|--------------|--------------------------------------|---------------|--|
|                       | Size           | Grade | Weight per ft. | New | Used | For drilling      | Left in well |                                      |               |  |
| Conductor             | 11-3/4         |       | 32             | X   |      | 30'               | 30'          |                                      | Kinds         |  |
| Fresh water           |                |       |                |     |      |                   |              |                                      |               |  |
| Coal                  |                |       |                |     |      |                   |              |                                      | Sizes         |  |
| Intermediate          | 8-5/8          |       | 23             | X   |      | 788' 1000'        | 788' 1000'   | to surface                           | by rule 15.05 |  |
| Production            | 4-1/2          | J     | 10 1/2         | X   |      | 3500'             | 3500'        | as required                          | Depths set    |  |
| Tubing                |                |       |                |     |      |                   |              | by rule 15.01                        | Perforations: |  |
| Liners                |                |       |                |     |      |                   |              |                                      | Top Bottom    |  |

OFFICE USE ONLY  
 DRILLING PERMIT

Permit number 47-053-0352 Date April 6, 19 84

This permit covering the well operator and well location shown below is evidence of permission granted to drill in accordance with the pertinent legal requirements subject to the conditions contained herein and on the reverse hereof. Notification must be given to the District Oil and Gas Inspector, (Refer to No. 8) Prior to the construction of roads, locations and pits for any permitted work. In addition, the well operator or his contractor shall notify the proper district oil and gas inspector 24 hours before actual permitted work has commenced.)

The permitted work is as described in the Notice and Application, plat, and reclamation plan, subject to any modifications and conditions specified on the reverse hereof.  
 Permit expires April 6, 1986 unless well work is commenced prior to that date and prosecuted with due diligence.

|                  |                  |                 |                   |                     |
|------------------|------------------|-----------------|-------------------|---------------------|
| Bond:<br>BLANKET | Agent: <u>LS</u> | Plat: <u>MH</u> | Casing: <u>MH</u> | Fee: <u>015-377</u> |
|------------------|------------------|-----------------|-------------------|---------------------|

T. J. ...  
 Administrator, Office of Oil and Gas