



FILE NO. BK 82 P 45  
 DRAWING NO. \_\_\_\_\_  
 SCALE 1" = 1000'  
 MINIMUM DEGREE OF ACCURACY 1:200'  
 PROVEN SOURCE OF ELEVATION USGS BM  
Set RT 2 & LS RT 37  
E 1583

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 MINES.  
 (SIGNED) C. Y. Solley Jr.  
 R.P.E. LLS 92

PLACE SEAL HERE

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



DATE FEB 27, 1984  
 OPERATOR'S WELL NO. 2026-1  
 API WELL NO. \_\_\_\_\_  
47 - 053 - 0350  
 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 594.72 WATER SHED SIXTEENMILE CREEK  
 DISTRICT HANNAN 6 COUNTY MASON  
 QUADRANGLE APPLE GROVE 216 Glenwood 15' C 5  
 SURFACE OWNER BOB E. MYERS ACREAGE 051 ACRES  
 OIL & GAS ROYALTY OWNER BOB E. MYERS LEASE ACREAGE 430  
 LEASE NO. C-2-169  
 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 VANZAN APR 9 1984  
 ADDRESS P.O. DRAWER 40 ADDRESS P.O. DRAWER 40  
BUCKHANNON WV 26201 BUCKHANNON WV 26201

RECEIVED



IV-35 (Rev 8-81)

NOV 29 1984

OIL & GAS DIVISION DEPT. OF MINES

State of West Virginia

Department of Mines Oil and Gas Division

Date November 27, 1984 Operator's Well No. 1 - 2026 Farm Bobbie Myers #1 API No. 47 - 053 - 0350

RECEIVED

DEC 3 7 1984

WELL OPERATOR'S REPORT OF

CORRECTED - 12/26/84

OIL & GAS DIVISION DEPT. OF MINES

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: 594' 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 40, Buckhannon, WV 26201

SURFACE OWNER Bobbie Edward Myers

ADDRESS P.O. Box 888, Charleston, WV 25322

MINERAL RIGHTS OWNER same

ADDRESS

OIL AND GAS INSPECTOR FOR THIS WORK

Jerry Tephabock ADDRESS Rtl, Box 101A, Ripley, WV 25271

PERMIT ISSUED 4/6/84

DRILLING COMMENCED 11/2/84

DRILLING COMPLETED 11/7/84

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

Table with 4 columns: Casing & Tubing, Used in Drilling, Left in Well, Cement fill up Cu. ft. Rows include sizes 20-16, 13-10, 9 5/8, 8 5/8, 7, 5 1/2, 4 1/2, 3, 2, and Liners used.

GEOLOGICAL TARGET FORMATION Devonian Shale Depth 3500' feet

Depth of completed well 3250' feet Rotary XX / Cable Tools

Water strata depth: Fresh none feet; Salt 725', 1195' feet & 1450'

Coal seam depths: none Is coal being mined in the area? no

OPEN FLOW DATA

Producing formation Upper & Lower Huron Pay zone depth 3094' feet

Gas: Initial open flow show Mcf/d Oil: Initial open flow Bbl/d

Final open flow 119 Mcf/d Final open flow Bbl/d

Time of open flow between initial and final tests 3 days

Static rock pressure 500# psig (surface measurement) after 3 days 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.

Dowell - 1 stage Foam Frac - 11/17/84

2766/3094 - Upper Huron - 60,000# sand, 160 Bbls water and 735,000 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	102	1/2" stream salt water @725'
Gravel & Clay			102	220	1" stream salt water @1195'
Sand & Shale			220	1892	2 1/2" stream salt water @1450'
Berea			1892	1933	
Top of Devonian			1933		
Upper Huron Shale			2766	2774	
Lower Huron Shale			2815	3096	
Angola Shale			3096	3250'	T.D. gas show

*fracture 11/17/84*  
*2750 feet*  
*3095 feet*  
*83' sp. log*

2750  
3095  
817

(Attach separate sheets as necessary)

UNION DRILLING, INC.

Well Operator

By:

*Joseph C. Pettey*

Date: Joseph C. Pettey, Vice President of Production

11/27/84

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. 2026  
 3) API Well No. 47 - 053 - 0350  
 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: 594.72 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  / No

**RECEIVED**  
 MAR 16 1984  
 OIL & GAS DIVISION  
 DEPT. OF MINES

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									
Coa									Sizes
Intermediate	8-5/8		23	X		1000' 794'	1000' 794'	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	
Liners									Perforations: Top Bottom

OFFICE USE ONLY  
 DRILLING PERMIT

Permit number 47-053-0350

April 6, 1984  
 Date

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:	Agent: <input checked="" type="checkbox"/>	Plat: <input checked="" type="checkbox"/>	Casing	Fee
	<u>lp</u>	<u>MH</u>	<u>MH</u>	<u>215-377</u>

*[Signature]*

Administrator, Office of Oil and Gas

NOTE: Keep one copy of this permit posted at the drilling location.