

WELL 1916  
MASON 0304

VERNON V. VARNIUM  
DB 231 P 140

N64°20'W  
2454'

S89°36'E - 3518.77

8" chestnut  
oak in  
fence corner.

Fence  
corner

69.24 ACTR.  
D.B. 126 P 52

LOC. 1967

S48°37'W  
638.38'

N40°09'W  
614.84'

S55°18'W  
896.01'

BILLIE W. BUSKIRK  
DB 230 P 500

Fence corner  
Large  
Hickory

N88°36'W - 3175.24'

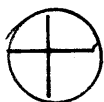
Large  
white oak  
in fence corner.

NORTH

JOHN B WALLACE  
DB 126 P 52

KENNETH BLAKE  
DB 243 P 531

15' loc.  
544S  
3.86W



2.56S  
1.60W

FILE NO. BK 81 P 18  
DRAWING NO. \_\_\_\_\_  
SCALE 1" = 500'  
MINIMUM DEGREE OF  
ACCURACY 1:200  
PROVEN SOURCE OF  
ELEVATION USGS BM G-118  
EL 579.85

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. L. B. 92

PLACE SEAL HERE

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

FORM IV-B  
(8-78)



DATE NOV 30, 1983  
OPERATOR'S WELL NO. 1967 (1)  
API WELL NO.

47-053-0326  
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 860.81 WATER SHED DAVES RUN

DISTRICT CLENDENIN COUNTY MASON

QUADRANGLE APPLE GROVE 7.5' Glenwood 15' NC

SURFACE OWNER JOHN B. WALLACE ACREAGE 110

OIL & GAS ROYALTY OWNER JOHN B. WALLACE LEASE ACREAGE 110

LEASE NO. C-2-194

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 3000

WELL OPERATOR UNION DRILLING DESIGNATED AGENT JOSEPH VANZANT

ADDRESS P.O. DRAWER 40 ADDRESS P.O. DRAWER 40

BUCKHANNON WVA 26201 BUCKHANNON WVA 26201

JAN 3 1984

RECEIVED

APR 5 - 1984



OIL & GAS DIVISION  
DEPT. OF MINES

State of West Virginia

Department of Mines  
Oil and Gas Division

Date April 4, 1984  
Operator's  
Well No. 1 - 1967  
Farm John B. Wallace #1  
API No. 47 - 053 - 0326

IV-35  
(Rev 8-81)

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: 860' Watershed Daves Run  
District: Clendenin 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 John B. Wallace

ADDRESS Apple Grove, WV 25502

MINERAL RIGHTS OWNER Same

ADDRESS \_\_\_\_\_

OIL AND GAS INSPECTOR FOR THIS WORK \_\_\_\_\_

Jerry Tephabock ADDRESS Rt #1, Box 101-A, Ripley, WV

PERMIT ISSUED 12/29/83 25271

DRILLING COMMENCED 3/14/84

DRILLING COMPLETED 3/19/84

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

Casing & Tubing	Used in Drilling	Left in Well	Cement fill up Cu. ft.
Size 20-16 Cord.			
13-10"			
9 5/8	1017.85'		385 cf
8 5/8			
7	2230.70	727.50	59 cf
5 1/2			
4 1/2	3475.40		147 cf
3			
2			
Liners used			

GEOLOGICAL TARGET FORMATION Lower Huron Depth 3000' feet

Depth of completed well 3524' feet Rotary X / Cable Tools \_\_\_\_\_

Water strata depth: Fresh 27,785' feet; Salt 1365,1475' feet

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

OPEN FLOW DATA

Producing formation Huron Pay zone depth 3310' feet

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

Final open flow 103 Mcf/d Final open flow \_\_\_\_\_ Bbl/d

Time of open flow between initial and final tests 6 days

Static rock pressure not taken psig (surface measurement) after \_\_\_\_\_ 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 16

Static rock pressure \_\_\_\_\_ psig (surface measurement) after \_\_\_\_\_ hours shut in 1984

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

3/28/84 - Nowsco - 1 stage Foam Frac

2986/3310 - Huron - 60,000# 20/40 sand, 167 Bbls water and 904,000 scf nitrogen

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	294	1/2" stream water @27'
Red Rock			294	985	1" stream water @785'
Sand & Shale			985	1470	1/2" salt water @1365'
Big Lime			1470	1560	1 1/2" salt water @1475'
Sand & Shale			1560	1595	
Injun			1595	1680	
Sand & Shale			1680	2120	
Berea			2120 ←	→ 2274	2110 2136 (26)
Sand & Shale			2274	2980	
Upper Huron			2985	3036	
Lower Huron			3036	3312	
				3508	T.D. gas show

*Handwritten notes:*  
 H - 2965-3316 (99)  
 J 3016-2412 (92)  
 A 342-

(Attach separate sheets as necessary)

UNION DRILLING, INC.

Well Operator

By: Joseph C. Pitley

Date: Vice President of Production

4/4/84

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: December 8, 19 83  
 2) Operator's Well No. 1967 (1)  
 3) API Well No. 47 - 053 - 0326  
 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 X /  
 B (If "Gas", Production X / Underground storage \_\_\_\_\_ / Deep \_\_\_\_\_ / Shallow X /)
- 5) LOCATION: Elevation: 860.81' Watershed: Daves Run  
 District: Clendenin County: Mason Quadrangle: Apple Grove
- 6) WELL OPERATOR Union Drilling, Inc.  
 Address Post Office Drawer 40  
Buckhannon, WV 26201
- 7) DESIGNATED AGENT Joseph C. Vanzant, Jr.  
 Address Post Office Drawer 40  
Buckhannon, WV 26201
- 8) OIL & GAS INSPECTOR TO BE NOTIFIED  
 Name Jerry Tephabock  
 Address Route 1, Box 101-A  
Ripley, WV 25271
- 9) DRILLING CONTRACTOR:  
 Name Union Drilling, Inc.  
 Address Post Office Drawer 40  
Buckhannon, WV 26201
- 10) PROPOSED WELL WORK: Drill X / Drill deeper \_\_\_\_\_ / Redrill \_\_\_\_\_ / Stimulate X /  
 Plug off old formation \_\_\_\_\_ / Perforate new formation \_\_\_\_\_  
 Other physical change in well (specify) \_\_\_\_\_
- 11) GEOLOGICAL TARGET FORMATION, Devonian Shale LOWER HURON
- 12) Estimated depth of completed well, 3000 feet
- 13) Approximate strata depths: Fresh, ? feet; salt, ? feet.
- 14) Approximate coal seam depths: ? Is coal being mined in the area? Yes \_\_\_\_\_ No X

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	1000'	1000'	210 sacks	<u>CTS NEAT</u>
Production	4-1/2	J	10.5	X		3000'	3000'	640 sacks	Depths set
Tubing									<u>or as req. by rule 1501</u>
Liners									Perforations:
									Top Bottom

OFFICE USE ONLY  
 DRILLING PERMIT

Permit number 47-053-0326

December 29, 19 83  
 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 December 29, 1985 unless well work is commenced prior to that date and prosecuted with due diligence.

Bond:	Agent: <u>lp</u>	Plat: <u>MH</u>	Casing: <u>MH</u>	Fee: <u>011 594</u>
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Margaret J. Hass  
 Administrator, Office of Oil and Gas

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