



IV-35
(Rev 8-84)

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AUG 24 1984

OIL & GAS DIVISION
DEPT. OF MINES

State of West Virginia

Department of Mines
Oil and Gas Division

Date August 22, 1984
Operator's
Well No. 1 - 1880
Farm USA #A1 - Confidential
API No. 47 - 071 - 0010

CONFIDENTIAL

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 x / Shallow ___ /)

LOCATION: Elevation: 2522' Watershed Shaffer Run
District: Union County Pendleton Quadrangle Hopeville

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 Monongahela Nat'l Forest

ADDRESS Jerry Bremer, Petersburg, WV 26847

MINERAL RIGHTS OWNER Same

ADDRESS

OIL AND GAS INSPECTOR FOR THIS WORK

Robert Stewart ADDRESS P.O. Box 345 Jane Lew, WV

PERMIT ISSUED 6/17/83 26378

DRILLING COMMENCED 6/23/83

DRILLING COMPLETED 8/29/83

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"	423'		
9 5/8	3017.6'	3017.6	1295 cf
8 5/8			
7			
5 1/2		9016.48	642 cf
4 1/2			
3			
2			
Liners used			

GEOLOGICAL TARGET FORMATION Oriskany Depth 8600' feet
Depth of completed well 9047' feet Rotary x / Cable Tools
Water strata depth: Fresh ___ feet; Salt ___ feet
Coal seam depths: none Is coal being mined in the area? no

OPEN FLOW DATA
Producing formation Oriskany Pay zone depth 8592' feet
Gas: Initial open flow 25 show Mcf/d Oil: Initial open flow ___ Bbl/d
Final open flow 1235 mcf Mcf/d Final open flow ___ Bbl/d
Time of open flow between initial and final tests 2 hours
Static rock pressure 1850# psig (surface measurement) after 7 days 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

SEP 24 1984 SEP 24 1984

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

Halliburton - 10/11/83 - Acid Treatment - 1500 gal. Acid
 Halliburton - 10/13/83 - Acid Treatment - 1500 gal. Acid
 Halliburton - 10/25/83 - Frac Treatment
8745/47, 8759/64, 8789/92 - 47,500# sand and 775 Bbls. water

Set bridge plug @ 8701

8515-8660-perfs-Oriskany

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	2129	
Foreknobs Group			2129	2154	
Benson			3808	3835	
Scherr			3967	4015	
Elk			5885	5920	
Harrell Black Shale			7621	7688	
Chaneyville Limestone			7845	7856	
Mahantango Shale			7860	7898	
Upper Marcellus Shale			8097	8141	
Lower Marcellus Shale			8165	8220	
Tioga Metabentonite			8315	8330	
Needmore Shale			8360	8378	
Oriskany Sandstone			8512	8597	<i>8688</i>
Helderberg Sandstone			8742	8802	
			<i>8688</i>	9047	T.D.

(Attach separate sheets as necessary)

Union Drilling, Inc.

Well Operator

By:

Joseph C. Petty

Date:

Joseph C. Petty, Vice President of Production

8/22/84

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: May 18, 19 83
 2) Operator's Well No. 1A - 1880
 3) API Well No. 47 071 0010
 State West Virginia County Putnam Permit U.S.A. #1A (1880)

DRILLING CONTRACTOR:

Union Drilling, Inc.

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

P. O. Drawer 40

Buckhannon, WV 26201

OIL AND GAS WELL PERMIT APPLICATION

(CONFIDENTIAL WELL)

- 4) WELL TYPE: A Oil XX / Gas XX /
 B (If "Gas", Production XX / Underground storage XX / Deep XX / Shallow XX /)
- 5) LOCATION: Elevation: 2522' Watershed: Shaffer Run
 District: Union County: Pendleton Quadrangle: Hopeville 7.5'
- 6) WELL OPERATOR Union Drilling, Inc. 11) DESIGNATED AGENT Joseph C. Vanzant, Jr.
 Address P. O. Drawer 40 Address P. O. Drawer 40
Buckhannon, WV 26201 Buckhannon, WV 26201
- 7) OIL & GAS ROYALTY OWNER Monongahela National Forest 12) COAL OPERATOR _____
 Address Jerry Bremer, District Ranger Address _____
Petersburg, WV 26847
- 8) SURFACE OWNER Monongahela National Forest 13) COAL OWNER(S) WITH DECLARATION ON RECORD:
 Address Jerry Bremer, District Ranger Name No Marketable Coal Seams
Petersburg, WV 26847 Address _____
 Acreage 2327.75 Name _____
 Address _____
- 9) FIELD SALE (IF MADE) TO: Address Not determined at this time
- 10) OIL & GAS INSPECTOR TO BE NOTIFIED 14) COAL LESSEE WITH DECLARATION ON RECORD:
 Name Robert Stewart (884-7782) Name _____
 Address P. O. Box 345 Address _____
Jane Lew, WV 26378
- 15) PROPOSED WORK: Drill XX / Drill deeper _____ / Redrill _____ / Fracture or stimulate XX /
 Plug off old formation _____ / Perforate new formation _____
 Other physical change in well (specify) _____
- 16) GEOLOGICAL TARGET FORMATION, Oriskany
- 17) Estimated depth of completed well, 8600 feet
- 18) Approximate water strata depths: Fresh, 2-1/2 feet; salt, ? feet.
- 19) Approximate coal seam depths: none Is coal being mined in the area? Yes _____ / No XX /

20) 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	<u>13 3/8</u>	<u>H-40</u>	<u>48#</u>	<u>X</u>		<u>200'</u>	<u>200'</u>	<u>250 sks.</u>	Kinds
Fresh water									
Coal	<u>9 5/8</u>	<u>N-80</u>	<u>43#</u>	<u>X</u>		<u>OR</u>			Sizes
Intermediate	<u>9 5/8</u>	<u>K-36</u>	<u>36#</u>	<u>X</u>		<u>2500'</u>	<u>2500'</u>	<u>575 sks.</u>	Depths set
Production	<u>5 1/2</u>	<u>N-80</u>	<u>20#</u>	<u>X</u>		<u>OR</u>			
Tubing	<u>5 1/2</u>	<u>N-80</u>	<u>17#</u>	<u>X</u>			<u>8600</u>	<u>450 sks.</u>	
Liners									Perforations: Top Bottom

21) EXTRACTION RIGHTS

Check and provide one of the following:

- Included is the lease or leases or other continuing contract or contracts by which I hold the right to extract oil or gas.
 The requirement of Code 22-4-1-(c) (1) through (4). (See reverse side for specifics.)

22) ROYALTY PROVISIONS

Is the right to extract, produce or market the oil or gas based upon a lease or other continuing contract or contracts providing for flat well royalty or any similar provision for compensation to the owner of the oil or gas in place which is not inherently related to the volume of oil or gas so extracted, produced or marketed? Yes No

If the answer above is No, nothing additional is needed. If the answer is Yes, you may use Affidavit Form IV-60.

23) Required Copies (See reverse side.)

24) Copies of this Permit Application and the enclosed plat and reclamation plan have been mailed by registered mail or delivered by hand to the above named coal operator, coal owner(s), and coal lessee on or before the day of the mailing or delivery of this Permit Application to the Department of Mines at Charleston, West Virginia.

Notary: _____
 My Commission Expires 05/22/89
Commissioned as Sharon L. Kelley

Signed: Joseph C. Pettay, Vice President of Production
 Its: _____

OFFICE USE ONLY

DRILLING PERMIT

Permit number 47-071-0010 Date June 17 19 83

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. 10) 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.)

Permit expires June 17, 1984 unless drilling is commenced prior to that date and prosecuted with due diligence.

Bond:	Agent:	Plat:	Casing	Fee
<u>B</u>				

Administrator, Office of Oil and Gas