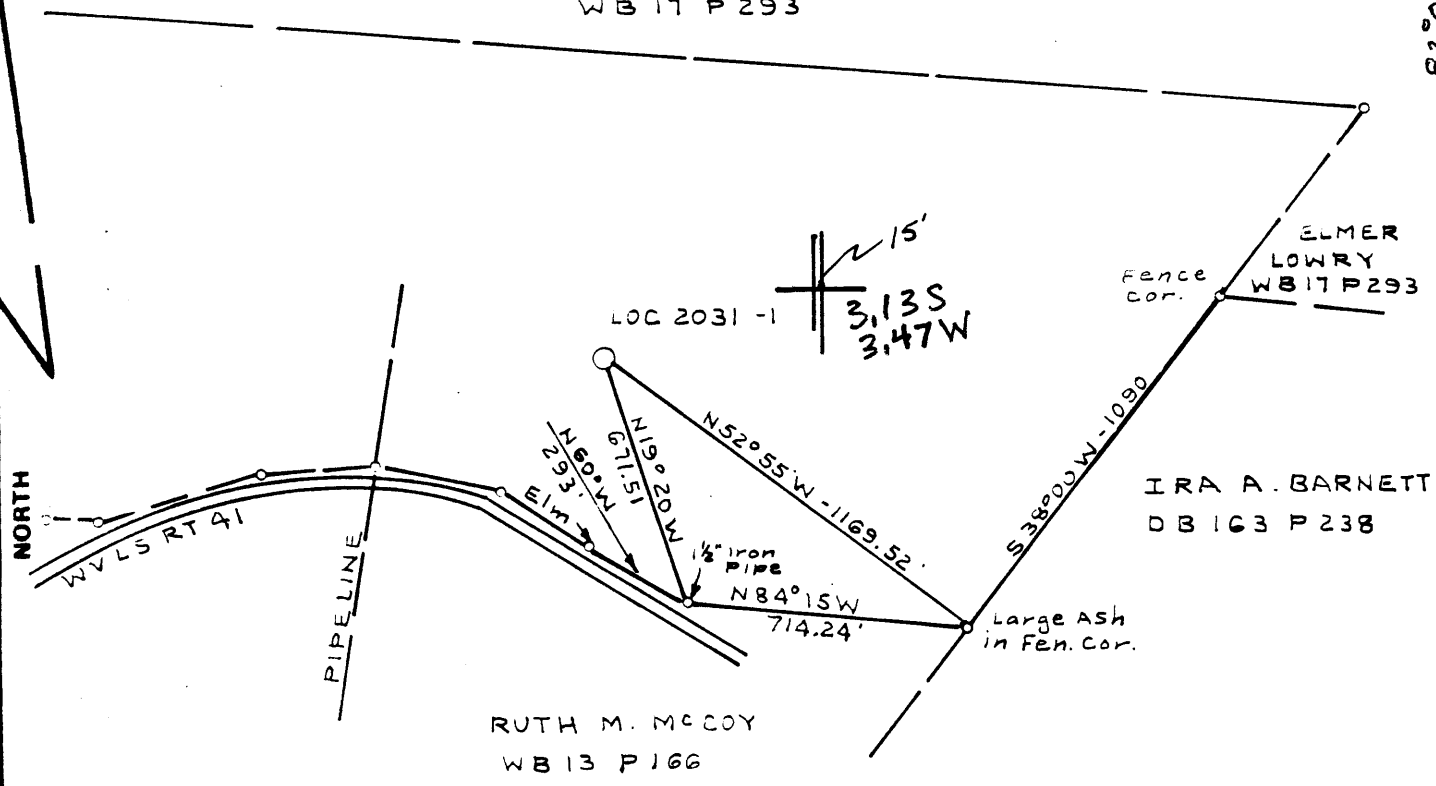


0.25S  
1.22W



ELMER LOWREY  
WB 17 P 293

LONGITUDE  
82°05'



FILE NO. BK 82 P 66  
 DRAWING NO. \_\_\_\_\_  
 SCALE 1" = 500'  
 MINIMUM DEGREE OF ACCURACY 1:200  
 PROVEN SOURCE OF ELEVATION USGS Road forks 2000 SE. LOC. E1 552

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. S. Volley Jr.  
 R.P.E. D.S. 92

PLACE SEAL HERE

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

FORM IV-6  
(8-78)



DATE FEB 27, 19 84  
 OPERATOR'S WELL NO. 2031-1  
 API WELL NO. \_\_\_\_\_

47 - 053 - 0355  
 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 686.93' WATER SHED EIGHTEENMILE CREEK  
 DISTRICT HANNAN 6 373 COUNTY MASON  
 QUADRANGLE GLENWOOD 415' C 5  
 SURFACE OWNER STANLEY BROTHERS INC<sup>051</sup> ACREAGE 250  
 OIL & GAS ROYALTY OWNER STANLEY BROTHERS INC LEASE ACREAGE 250  
 LEASE NO. C-2-203

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 16 1984  
 ADDRESS P.O. DRAWER 40 893 ADDRESS P.O. DRAWER 40  
BUCKHANNON WV 26201 BUCKHANNON WV 26201

IV-35  
(Rev 8-81)

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DEC 10 1984

OIL & GAS DIVISION  
DEPT. OF MINES



State of West Virginia  
Department of Mines  
Oil and Gas Division

Date December 6, 1984  
Operator's  
Well No. 1 - 2031  
Farm Stanley Brothers, Inc. #1  
API No. 47 - 053 - 0355

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: 686' Watershed Eighteenmile Creek.  
District: Hannan County Mason Quadrangle Glenwood

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 Stanley Brothers, Inc.  
ADDRESS P.O. Box 1546, Huntington, WV 25701  
MINERAL RIGHTS OWNER Same  
ADDRESS       
OIL AND GAS INSPECTOR FOR THIS WORK       
Jerry Tephacock ADDRESS Rt1, Box 101A, Ripley, WV 25271  
PERMIT ISSUED 4/9/84  
DRILLING COMMENCED 11/5/84  
DRILLING COMPLETED 11/10/84  
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	Corent fill up Cu. ft.
Size 20-16 Cord.			
13-10"	25.00'	25.00'	
9 5/8	534.80	534.80'	247 cf
8 5/8			
7	2130.30'	708.25'	59 cf
5 1/2			
4 1/2		3334.15'	148 cf
3			
2			
Liners used			

GEOLOGICAL TARGET FORMATION Devonian Shale Depth 3500' feet  
Depth of completed well 3424' feet Rotary XX / Cable Tools       
Water strata depth: Fresh 60', 1357' feet; Salt none feet  
Coal seam depths: none Is coal being mined in the area? no

OPEN FLOW DATA

Producing formation Upper & Lower Huron Pay zone depth 3244' feet  
Gas: Initial open flow show Mcf/d Oil: Initial open flow      Bbl/d  
Final open flow 267 Mcf/d Final open flow      Bbl/d  
Time of open flow between initial and final tests 3 days hours  
Static rock pressure 700# psig (surface measurement) after 3 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

DEC 26 1984

(Continue on reverse side)

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

2894/3234 - { Upper Huron - 60,000# sand, 160 Bbls water and 2,000,000 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	1424	1/2" stream water @60'
Big Lime			1424	1493	6" stream water @1357'
Injun			1493	1588	
Berea			2020	2059	
Top of Devonian Shale			2059		
Upper Huron			2891	2911	
Lower Huron			2956	3239	
<u>Angola Shale</u>			3239	<u>3424'</u>	T.D. gas show

from GR 100  
FT.

83' up Sec.

(Attach separate sheets as necessary)

UNION DRILLING, INC.

Well Operator

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

12/6/84

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. 2031 - 1  
 3) API Well No. 47 - 053 - 0355  
 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: 686.93 Watershed: Eighteenmile Creek  
 District: Hannan County: Mason Quadrangle: Glenwood
- 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 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
- 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 X

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 DEPT. OF MINES

15) CASING AND TUBING PROGRAM

CASING OR TUBING TYPE	SPECIFICATIONS					FOOTAGE INTERVALS		CEMENT FILL OR SACKS (Cubic feet)	SIZES
	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		1000-886	1000-886	to surface	<u>NEAT</u>
Production	4-1/2	J	10 1/2	X		3500'	3500'	as required	Depths set
Tubing								<u>by rule</u>	<u>15, 01</u>
Liners									Perforations:
									Top Bottom

OFFICE USE ONLY  
 DRILLING PERMIT

Permit number 47-053-0355 Date April 9, 1984

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 9, 1986 unless well work is commenced prior to that date and prosecuted with due diligence.

Bond: <u>SLAKE</u>	Agent: <u>[Signature]</u>	Plat: <u>MH</u>	Casing: <u>MH</u>	Fee: <u>015</u> <u>377</u>
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[Signature]  
 Administrator, Office of Oil and Gas

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