



FILE NO. 82-61  
 DRAWING NO. 3  
 SCALE 1" = 1000'  
 MINIMUM DEGREE OF ACCURACY 1/200  
 PROVEN SOURCE OF ELEVATION KNOB 1156

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) Neal Hughes  
 R.P.E. \_\_\_\_\_ L.L.S. 632

PLACE SEAL HERE

(+) DENOTES LOCATION OF WELL ON UNITED STATES TOPOGRAPHIC MAPS  
 FORM IV-6 (8-78)



DATE NOV. 8, 19 82  
 OPERATOR'S WELL NO. 3  
 API WELL NO. MARSH VALENTINE  
47-085-6003  
 STATE COUNTY PERMIT

STATE OF WEST VIRGINIA  
 DEPARTMENT OF MINES  
 OIL AND GAS DIVISION

WELL TYPE: OIL  GAS  LIQUID INJECTION \_\_\_\_\_ WASTE DISPOSAL \_\_\_\_\_  
 (IF "GAS,") PRODUCTION  STORAGE \_\_\_\_\_ DEEP \_\_\_\_\_ SHALLOW   
 LOCATION: ELEVATION 1015' WATER SHED LOST RUN  
 DISTRICT GRANT COUNTY RITCHIE  
 QUADRANGLE HARRISVILLE 7.5' 15' NE  
 SURFACE OWNER WESTVACO ACREAGE 95  
 OIL & GAS ROYALTY OWNER CLIFTON VALENTINE LEASE ACREAGE 95  
 LEASE NO. P-107  
 PROPOSED WORK: DRILL  CONVERT \_\_\_\_\_ DRILL DEEPER \_\_\_\_\_ REDRILL \_\_\_\_\_ FRACTURE OR STIMULATE  PLUG OFF OLD FORMATION \_\_\_\_\_ PERFORATE NEW FORMATION \_\_\_\_\_ OTHER PHYSICAL CHANGE IN WELL (SPECIFY) \_\_\_\_\_

NOV 22 1982

PLUG AND ABANDON \_\_\_\_\_ CLEAN OUT AND REPLUG \_\_\_\_\_  
 TARGET FORMATION MARCELLUS SHALE ESTIMATED DEPTH 5990  
 WELL OPERATOR PANTHER FUEL CO DESIGNATED AGENT PANTHER FUEL CO.  
 ADDRESS P.O. BOX 850 ADDRESS P.O. BOX 850  
BRIDGEPORT, W.VA. 26330 BRIDGEPORT, W.VA 26330



IV-35  
(Rev 8-81)

Date March 15, 1983  
Operator's  
Well No. #3  
Farm MARSH-VALENTINE  
API No. 47-085-6003

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 x / Gas x / Liquid Injection    / Waste Disposal    /  
(If "Gas," Production x / Underground Storage    / Deep    / Shallow    /)  
LOCATION: Elevation: 1,015 Watershed Hushers Run of Lost Run  
District: Grant County Ritchie Quadrangle Harrisville 7.5'

COMPANY PANTHER FUEL COMPANY  
ADDRESS P. O. Box 850, Bridgeport, WV 26330  
DESIGNATED AGENT Dave Harmer  
ADDRESS Shinston, West Virginia  
SURFACE OWNER WESTVACO  
ADDRESS Parkersburg, West Virginia 26101  
MINERAL RIGHTS OWNER Clifton Valentine  
ADDRESS 4459 Edgerton Rd., N. Royalton, Ohio 44133  
OIL AND GAS INSPECTOR FOR THIS WORK Samuel Hersman  
ADDRESS P. O. Box 66, Smithville, WV 26178  
PERMIT ISSUED     
DRILLING COMMENCED 11/29/82  
DRILLING COMPLETED 12/7/82  
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 Cond.			
13-10"			
9 5/8			
8 5/8	1,260	1,260	to surface
7			
5 1/2			
4 1/2		5,762	600 sacks
3			
2			
Liners used			

GEOLOGICAL TARGET FORMATION Marcellus Depth 5,990 feet  
Depth of completed well 5,736 feet Rotary x / Cable Tools     
Water strata depth: Fresh 80' feet; Salt    feet  
Coal seam depths:    Is coal being mined in the area?   

OPEN FLOW DATA  
Producing formation Hamilton Shale Pay zone depth 5,240 to feet  
Gas: Initial open flow 1 MM Mcf/d Oil: Initial open flow -0- Bbl/d  
1,800 MCF Final open flow 1.2 MM Mcf/d Oil: Final open flow -0- Bbl/d  
Time of open flow between initial and final tests 72 hours

1,800 MCF Static rock pressure 1,120 psig (surface measurement) after 4 hours shut in  
+100SD (If applicable due to multiple completion--)  
Second producing formation Brallier Pay zone depth 3,120 to 4,100 feet  
Gas: Initial open flow Show Mcf/d Oil: Initial open flow Show Bbl/d  
Final open flow 600 Mcf/d Oil: Final open flow 100 Bbl/d  
Time of open flow between initial and final tests 72 hours  
Static rock pressure    psig (surface measurement) after 4 hours shut in

DEC 12 1983  
DEC 12 1983

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

3 Stages, 40 Holes per stage

150,000 N<sub>2</sub> per stage

WELL LOG

FORMATION	COLOR	HARD OR SOFT	TOP FEET	BOTTOM FEET	REMARKS
					Including indication of all fresh and salt water, coal, oil and gas
Big Lime			1,880	1,990	
Big Injun			1,990	2,068	Oil and Gas
Berea Cap			2,450		
Gantz Sand			2,560	2,580	
Fifth Sand			2,851	2,863	Gas
Brallier Shale			2,975	3,950	Oil and Gas
Harrell Shale			3,950	5,240	Oil and Gas
Hamilton Shale			5,240	5,870 to TD	Gas <i>Rhinestreet</i>

5870  
2450  
3420

(Attach separate sheets as necessary) /

PANTHER FUEL COMPANY

Well Operator

By: *Robert Collins*, Vice President

Date: March 21, 1983

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



1) Date: November 10, 1982, 1982  
 2) Operator's Well No. P-107-3  
 3) API Well No. 47 085 6003  
 State \_\_\_\_\_ County \_\_\_\_\_ Permit \_\_\_\_\_

DRILLING CONTRACTOR:

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

OIL AND GAS WELL PERMIT APPLICATION

- 4) WELL TYPE: A Oil \_\_\_\_\_ / Gas \_\_\_\_\_  
 B (If "Gas", Production \_\_\_\_\_ / Underground storage \_\_\_\_\_ / Deep \_\_\_\_\_ / Shallow \_\_\_\_\_)
- 5) LOCATION: Elevation: \_\_\_\_\_ Watershed: \_\_\_\_\_  
 District: \_\_\_\_\_ County: \_\_\_\_\_ Quadrangle: \_\_\_\_\_
- 6) WELL OPERATOR \_\_\_\_\_  
 Address \_\_\_\_\_
- 7) OIL & GAS ROYALTY OWNER \_\_\_\_\_  
 Address \_\_\_\_\_  
 Acreage \_\_\_\_\_
- 8) SURFACE OWNER \_\_\_\_\_  
 Address \_\_\_\_\_  
 Acreage \_\_\_\_\_
- 9) FIELD SALE (IF MADE) TO:  
 Address \_\_\_\_\_
- 10) OIL & GAS INSPECTOR TO BE NOTIFIED  
 Name \_\_\_\_\_  
 Address \_\_\_\_\_
- 11) DESIGNATED AGENT \_\_\_\_\_  
 Address \_\_\_\_\_
- 12) COAL OPERATOR \_\_\_\_\_  
 Address \_\_\_\_\_
- 13) COAL OWNER(S) WITH DECLARATION ON RECORD:  
 Name \_\_\_\_\_  
 Address \_\_\_\_\_  
 Name \_\_\_\_\_  
 Address \_\_\_\_\_
- 14) COAL LESSEE WITH DECLARATION ON RECORD:  
 Name \_\_\_\_\_  
 Address \_\_\_\_\_
- 15) PROPOSED WORK: Drill \_\_\_\_\_ / Drill deeper \_\_\_\_\_ / Redrill \_\_\_\_\_ / Fracture or stimulate \_\_\_\_\_  
 Plug off old formation \_\_\_\_\_ / Perforate new formation \_\_\_\_\_  
 Other physical change in well (specify) \_\_\_\_\_
- 16) GEOLOGICAL TARGET FORMATION, \_\_\_\_\_
- 17) Estimated depth of completed well, \_\_\_\_\_ feet
- 18) Approximate water strata depths: Fresh, \_\_\_\_\_ feet; salt, \_\_\_\_\_ feet.
- 19) Approximate coal seam depths: \_\_\_\_\_ Is coal being mined in the area? Yes \_\_\_\_\_ / No \_\_\_\_\_

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		Top	Bottom
Conductor										Kinds
Fresh water										
Coal										Sizes
Intermediate										
Production										Depths set
Tubing										
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: Larry W. Se Signed: \_\_\_\_\_  
 My Commission Expires \_\_\_\_\_ Its: \_\_\_\_\_

OFFICE USE ONLY  
 DRILLING PERMIT

Permit number \_\_\_\_\_ 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. 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 \_\_\_\_\_ unless drilling is commenced prior to that date and prosecuted with due diligence.

Bond:	Agent:	Plat:	Casing	Fee
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Administrator, Office of Oil and Gas