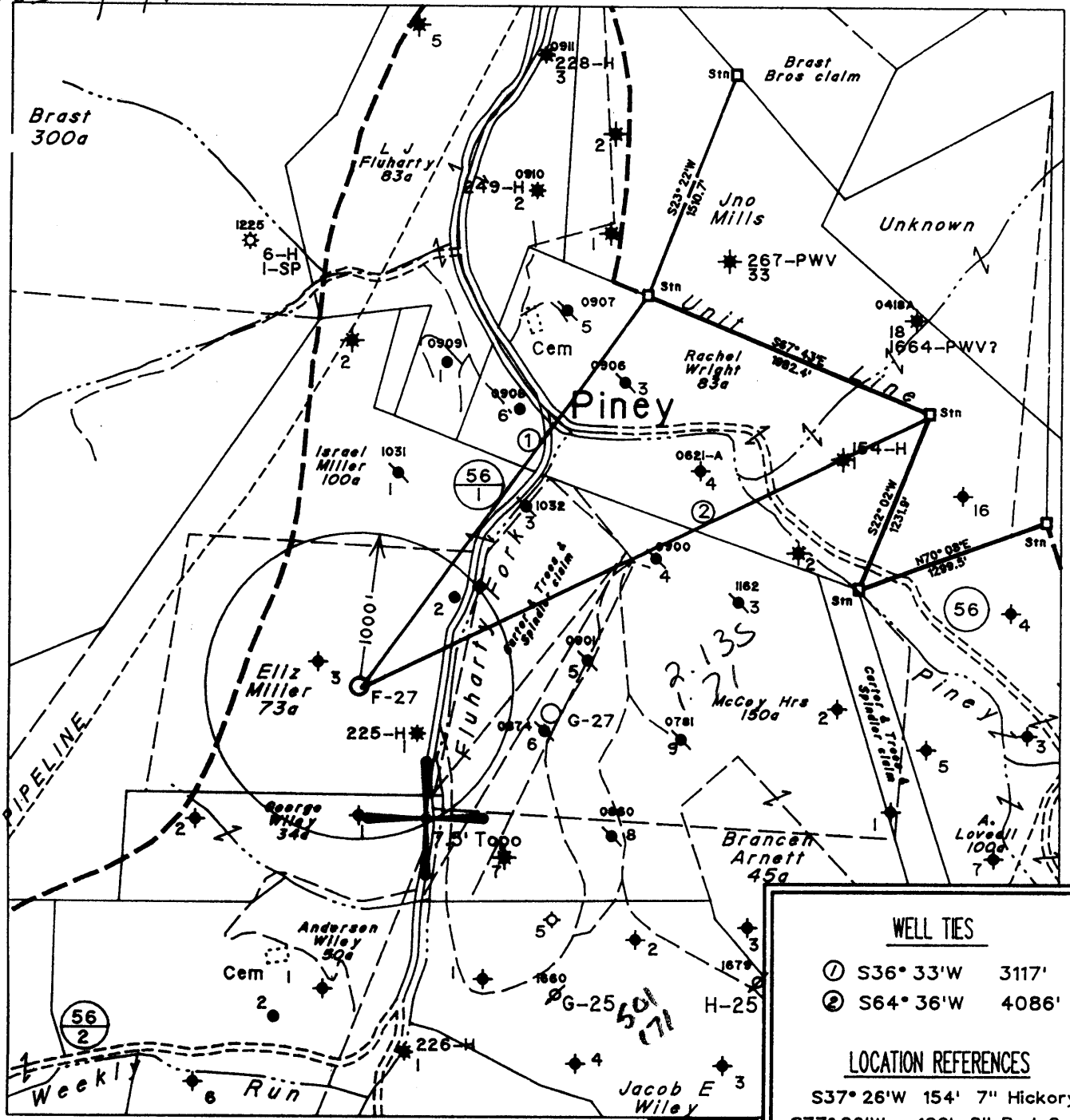


2/15/96



Note: All Known Water Supply Sources Located Within 1000' Of Proposed Well Are Shown

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

Denotes a Water Supply Source

WELL TIES	
①	S36° 33'W 3117'
②	S64° 36'W 4086'

LOCATION REFERENCES	
S37° 26'W 154' 7"	Hickory
S77° 09'W 129' 8"	Red Oak
S14° 35'E 125' 10"	Hickory

FILE NO. 1815

MAP NO. N57 N 5 S E W 5

SCALE 1" = 1000'

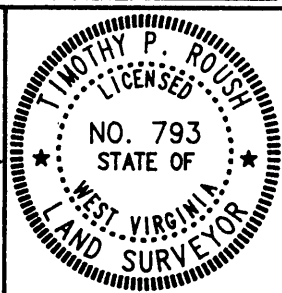
MINIMUM DEGREE OF ACCURACY 1 in 200

PROVEN SOURCE OF ELEVATION USGS BM - 902

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 MIN S.

(SIGNED) *Timothy P. Roush*

TIMOTHY P. ROUSH PS 793



STATE OF WEST VIRGINIA

DIVISION OF ENERGY

OIL AND GAS SECTION



DATE February 13, 19 96

FARM Eliz. Miller NO. F-27

API WELL NO. 47-103-01695-S

WELL TYPE: OIL \_\_\_ GAS \_\_\_ LIQUID INJECTION  WASTE DISPOSAL \_\_\_

(IF "GAS") PRODUCTION \_\_\_ STORAGE \_\_\_ DEEP \_\_\_ SHALLOW \_\_\_

LOCATION: ELEVATION 1050' WATERSHED Fluharty Fork

DISTRICT Green COUNTY Wetzel

QUADRANGLE Pine Grove *Section 56*

SURFACE OWNER Elizabeth Miller Heirs ACREAGE 72 Ac.

OIL & GAS ROYALTY OWNER Pennzoil Products Co. et.al. LEASE ACREAGE 73 Ac.

LEASE NO. 26804-50

PROPOSED WORK: DRILL  CONVERT \_\_\_ DRILL DEEPER \_\_\_ REDRILL \_\_\_ FRACTURE OR STIMULATE  PLUG OFF OLD FORMATION \_\_\_ PERFORATE NEW FORMATION \_\_\_ OTHER PHYSICAL CHANGE IN WELL (SPECIFY) \_\_\_

PLUG AND ABANDON \_\_\_ CLEAN OUT AND REPLUG \_\_\_

TARGET FORMATION Gordon ESTIMATED DEPTH 3050'

WELL OPERATOR Pennzoil Products Company DESIGNATED AGENT Philip S. Ondrusek

ADDRESS P. O. Box 5519 Vienna, W.Va. 26105 ADDRESS P. O. Box 5519 Vienna, W.Va. 26105

RECEIVED  
Division of Environmental Protection  
JAN 16 1997  
Permitting  
Office of Oil & Gas

State of West Virginia  
Division of Environmental Protection  
Section of Oil and Gas

Well Operator's Report of Well Work

Farm name: Miller, Elizabeth Heirs

Operator Well No.: E. Miller F-27

LOCATION: Elevation: 1,050.00'

Quadrangle: Pine Grove

District: Green

County: Wetzel

Latitude: 11,200' Feet south of

39 Deg 32 Min 30 Sec.

Longitude: 9,000' Feet west of

80 Deg 40 Min 0 Sec.

Company: PENNZOIL PRODUCTS COMPANY  
P.O. BOX 5519  
VIENNA, WV 26105-5519

Agent: PHILIP S. ONDRUSEK

Inspector: Randal Mick

Permit Issued: 3/4/96

Well work Commenced: 6/6/96

Well work Completed: 7/25/95

Verbal plugging

permission granted on:

Rotary X Cable \_\_\_\_\_ Rig \_\_\_\_\_

Total Depth (feet) 3052'

Fresh water depths (ft) NA

Salt water depths (ft) NA

Is coal being mined in area (Y/N) N

Coal Depths (ft): 810-820

Casing & Tubing Size	Used in Drilling	Left in Well	Cement Fill Up Cu. Ft.
8 5/8"	307'	307'	180 Sacks
4 1/2"	2868.95'	2868.95'	270 Sacks

OPEN FLOW DATA

\*Well was drilled as a waterflood injection well. No open-flow data was obtained

Producing formation Gordon Pay zone depth (ft) 2888-2905

Gas: Initial open flow \_\_\_\_\_ \* MCF/d Oil: Initial open flow \_\_\_\_\_ \* Bbl/d

Final open flow \_\_\_\_\_ \* MCF/d Final open flow \_\_\_\_\_ \* Bbl/d

Time of open flow between initial and final tests \_\_\_\_\_ \* Hours

Static rock pressure \_\_\_\_\_ \* psig (surface pressure) after \_\_\_\_\_ Hours

Second producing formation \_\_\_\_\_ Pay zone depth (ft) \_\_\_\_\_

Gas: Initial open flow \_\_\_\_\_ MCF/d Oil: Initial open flow \_\_\_\_\_ Bbl/d

Final open flow \_\_\_\_\_ MCF/d Final open flow \_\_\_\_\_ Bbl/d

Time of open flow between initial and final tests \_\_\_\_\_ Hours

Static rock pressure \_\_\_\_\_ psig (surface pressure) after \_\_\_\_\_ Hours

NOTE: ON BACK OF THIS FORM, PUT THE FOLLOWING: 1) DETAILS OF PERFORATED INTERVALS, FRACTURING OR STIMULATING, PHYSICAL CHANGE, ETC. 2) THE WELL LOG WHICH IS A SYSTEMATIC DETAILED GEOLOGICAL RECORD OF ALL FORMATIONS, INCLUDING COAL ENCOUNTERED BY THE WELLBORE.

For: PENNZOIL PRODUCTS COMPANY

By: \_\_\_\_\_

Date: 1/3/97

JAN 16 1997

**Treatment:**

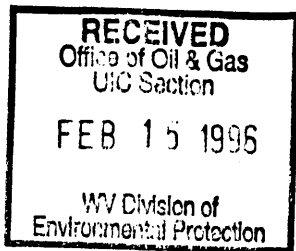
Treatment: Open hole 2878'-2903'. Treated via 4.5" Casing with 300 gals. mud acid, 778 bbls. gelled water and 9,200 lbs. of 20/40 sand.

**Well Log:**

TD - 3052

Sand & Shale	0	-	810
Coal	810	-	820
Sand & Shale	820	-	1228
Sand	1228	-	1258
Shale	1258	-	1268
Sand	1268	-	1284
Shale	1284	-	1328
Sand	1328	-	1410
Shale	1410	-	1422
Sand	1422	-	1462
Sand & Shale	1462	-	2033
Big Lime	2033	-	2104
Big Injun	2104	-	2288
Shale	2288	-	2858
Gordon Stray	2858	-	2874
Shale	2874	-	2888
Gordon	2888	-	2905
Shale	2905	-	2915
Sand	2915	-	2922
Shale	2922	-	3052





1) Date February 12, 1996  
2) Well No. Eliz. Miller No. F-27  
3) SIC Code \_\_\_\_\_  
4) API Well No. 47 - 103 - 1695-5  
State County Permit

STATE OF WEST VIRGINIA  
NOTICE OF LIQUID INJECTION OR WASTE DISPOSAL WELL WORK PERMIT APPLICATION  
for the  
DIVISION OF OIL AND GAS, DEPARTMENT OF ENERGY

6) SURFACE OWNER(S) OF RECORD TO BE SERVED

(i) Name Elizabeth Miller Heirs  
Address Box 508  
Wellsburg WV 26070  
(ii) Name Patrick & Lori I. Ice  
Address H.C. 60, Box 274  
Reader, WV 26167  
(iii) Name \_\_\_\_\_  
Address \_\_\_\_\_

7 (i) COAL OPERATOR:

Name N/A  
Address \_\_\_\_\_

7 (ii) COAL OWNER WITH DECLARATION ON RECORD:

Name N/A  
Address \_\_\_\_\_

7(iii) COAL LESSEE WITH DECLARATION ON RECORD:

Name N/A  
Address \_\_\_\_\_

TO THE PERSON(S) NAMED ABOVE: You should have received this Form and the following documents:

- (1) The Application for a Liquid Injection or Waste Disposal Well Work Permit on Form WW-3(B), which sets out the parties involved in the drilling or other work, and
- (2) The plat (surveyor's map) showing the well location on Form WW-6; and
- (3) The Construction and Reclamation Plan on Form WW-9 (unless the well work is only to plug a well), which sets out the plan for erosion and sediment control and for reclamation for the site and access road.

The date proposed for the first injection or waste disposal is \_\_\_\_\_

THE REASON YOU RECEIVED THESE DOCUMENTS IS THAT YOU HAVE RIGHTS REGARDING THE APPLICATION WHICH ARE SUMMARIZED IN THE "INSTRUCTIONS" ON THE REVERSE SIDE OF THE COPY OF THE APPLICATION (FORM WW-3(B)) DESIGNATED FOR YOU. HOWEVER, YOU ARE NOT REQUIRED TO TAKE ANY ACTION AT ALL.

Take notice that under Chapter 22B of the West Virginia Code, the undersigned well operator proposes to file or has filed this Notice and Application and accompanying documents for a Well Work Permit with the Director of the Division of Oil and Gas, West Virginia Department of Energy, with respect to a well at the location described on the attached Application and depicted on attached Form WW-6. Copies of this Notice, the Application, the plat, and the Construction and Reclamation Plan have been mailed by registered or certified mail or delivered by hand to the person(s) named above (or by publication in certain circumstances) on or before the day of mailing or delivery to the Director.

The person signing this document shall make the following certification:

"I certify under penalty of law that I have personally examined and am familiar with the information submitted in this document and all attachments and that, based on my inquiry of those individuals immediately responsible for obtaining the information, I believe that the information is true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment."

Pennzoil Products Company  
Well Operator  
By   
Timothy P. Roush  
Its Supervisor, Surveying/Mapping  
Telephone (304) 422-6565

OFFICE USE ONLY  
DRILLING PERMIT

Permit number 47-103-1695-LI

March 4th. 19 96  
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 (if required) construction and reclamation plan, subject to any modifications and conditions specified below.

Permit expires 3-4-98 unless well work is commenced prior to that date and prosecuted with due diligence.

Bond: <input checked="" type="checkbox"/>	Agent: <input checked="" type="checkbox"/>	Plat: <input checked="" type="checkbox"/>	Casing: <input checked="" type="checkbox"/>	Fee: <input checked="" type="checkbox"/>
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0301298049

*Michael J. Jones*  
CHIEF, OFFICE OF OIL AND GAS

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

PERMIT MODIFICATIONS AND CONDITIONS (IF ANY) TO THE PROPOSED WELL WORK

OFFICE USE ONLY

This part of Form IV-3(b) is to record the dates of certain occurrences and any follow-up inspections.

	Date	Follow-up inspection(s)	Date(s)
Application received			
Well work started		" "	
Total depth reached		" "	
Well Record received		" "	
Reclamation completed		" "	

OTHER INSPECTIONS

Reason: \_\_\_\_\_

Reason: \_\_\_\_\_