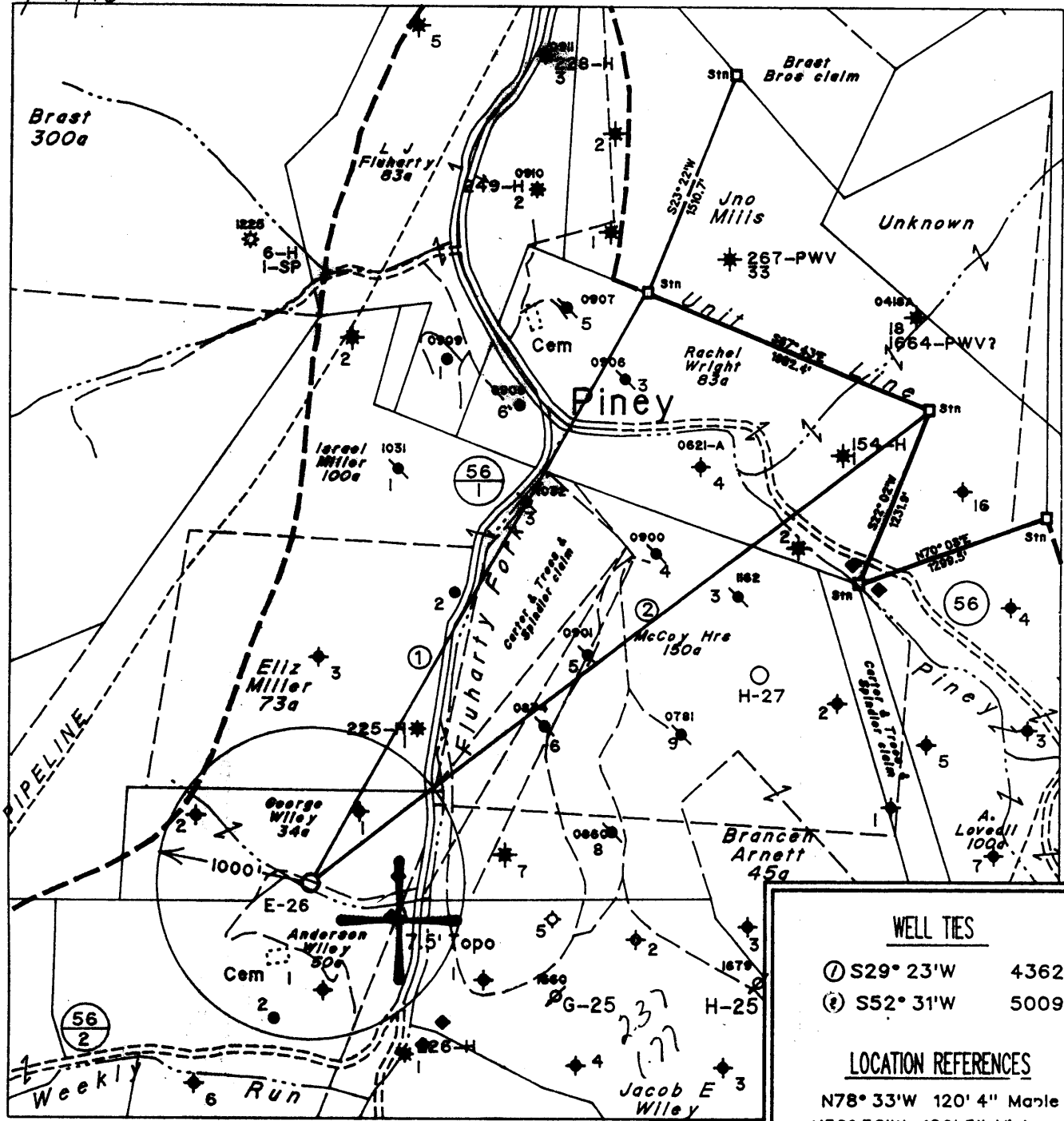


3/14/96



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

Denotes a Water Supply Source

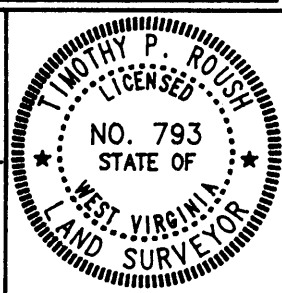
WELL TIES	
① S29° 23'W	4362'
② S52° 31'W	5009'
LOCATION REFERENCES	
N78° 33'W 120' 4" Maple	
N39° 36'W 109' 5" Hickory	
N84° 01'E 127' 4" Oak	

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

FILE NO. 1803
 MAP NO. N57 N 5 S E W 4
 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 MINES.

(SIGNED) Timothy P. Roush
 TIMOTHY P. ROUSH PS 793



STATE OF WEST VIRGINIA
 DIVISION OF ENERGY
 OIL AND GAS SECTION



DATE March 6, 19 96
 FARM Anderson Wiley NO. E-26
 API WELL NO. 47-103-1699-U

WELL TYPE: OIL GAS LIQUID INJECTION WASTE DISPOSAL
 (IF "GAS") PRODUCTION STORAGE DEEP SHALLOW
 LOCATION: ELEVATION 843' WATERSHED Fluharty Fork
 DISTRICT Green COUNTY Wetzel
 QUADRANGLE Pine Grove
 SURFACE OWNER Carl E. Fluharty ACREAGE 49.59 Ac.
 OIL & GAS ROYALTY OWNER Pennzoil Products Co. et al. LEASE ACREAGE 50 Ac.
 LEASE NO. 15001-50
 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 2843'
 WELL OPERATOR Pennzoil Products Company DESIGNATED AGENT Philip S Ondrusek
 ADDRESS P. O. Box 5519 ADDRESS P. O. Box 5519
Vienna, W.Va. 26105 4670 ADDRESS Vienna, W.Va. 26105

MAY 08 1996
 9-0 95

RECEIVED
Division of Environmental Protection

JAN 06 1997

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

Well Operator's Report of Well Work

Permitting
Office of Oil & Gas

Farm name: Fluharty, Carl E. Sr.

Operator Well No.: A. Wiley #E-26

LOCATION: Elevation: 843.00
District: Green
Latitude: 12,500 Feet south of
Longitude: 9,350 Feet west of

Quadrangle: Pine Grove
County: Wetzel
39 Deg 32 Min 30 Sec.
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: 4/29/96
Well work Commenced: 7/10/96
Well work Completed: 9/18/96

Verbal plugging permission granted on:

Rotary Cable Rig

Total Depth (feet) 2846'

Fresh water depths (ft) NA

Salt water depths (ft) NA

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

Coal Depths (ft): 626-630

Casing & Tubing Size	Used in Drilling	Left in Well	Cement Fill Up Cu. Ft.
8-5/8"	220'	220'	125 Sacks
4 1/2"	2747.65'	2747.65'	275 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) 2687-2704

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: [Signature]
Date: 1/3/97

JAN 10 1997

Treatment :

Perforations:

2690' - 2700' & 2696' -2702' - 4 holes/ft.

Treatment:

Treated via 4.5" Casing with 300 gals. 15% HCl, 227 bbls.

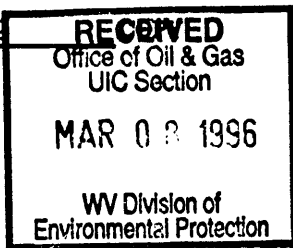
Borate cross-linked gelled water and 15,000 lbs. of 20/40 sand.

Well Log :

TD = 2846'

Sand & Shale	0	-	236
Shale	236	-	442
Sand	442	-	490
Shale	490	-	602
Sand	602	-	618
Shale	618	-	626
Coal	626	-	630
Shale	630	-	794
Sand	794	-	815
Shale	815	-	1031
Sand	1031	-	1077
Shale	1077	-	1132
Sand	1132	-	1184
Shale	1184	-	1500
Sand	1500	-	1534
Shale	1534	-	1600
Sand	1600	-	1642
Shale	1642	-	1812
Sand	1812	-	1835
Big Lime	1835	-	1908
Big Injun	1908	-	2086
Shale	2086	-	2658
Gordon Stray	2658	-	2674
Shale	2674	-	2687
Gordon	2687	-	2704
Shale	2704	-	2846

FILE



1) Date March 4, 1996
 2) Well No. Anderson Wiley E-28
 3) SIC Code _____
 4) API Well No. 47 - 103 - 1699-LI
 State County Permit
 5) UIC Code _____

Issued 04/29/96
Expires 04/29/98

21970

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

WELL TYPE: Liquid Injection Gas Injection _____ Waste Disposal _____

LOCATION: Elevation 843 Watershed Fluharty Fork
 District Green County Wetzel Quadrangle Pine Grove

8) WELL OPERATOR: Pennzoil Products Company 9) DESIGNATED AGENT: Philip S. Ondrusek
P.O. Box 5519 P.O. Box 5519
Vienna, WV 26105 Vienna, WV 26105

10) OIL & GAS INSPECTOR TO BE NOTIFIED: Name Mike Underwood
 Address Route 2, Box 135
Salem, WV 26426

11) DRILLING CONTRACTOR: Name _____
 Address _____

12) PROPOSED WELL WORK: Drill Drill Deeper _____ Redrill _____ Stimulate
 Plug Off Old Formation _____ Perforate New Formation _____ Convert _____
 Other Physical Change in Well (specify) _____

13) Geological target formation Gordon Depth 2723 Ft. (Top) t 2738 Ft. (Bottom)

14) Estimated depth of completed well (or actual depth of existing well) 2843 Ft.

15) Approximate water strata depths: Fresh 30 Ft. Salt 1050 Ft.

16) Approximate coal seam depths: 655 Ft.

17) Is coal being mined in the area? Yes _____ No

18) Virgin reservoir pressure in target formation: 1400 psig. Source Estimated

19) Estimated reservoir fracture pressure: 3500 psig.

20) Maximum proposed injection operations: Volume per hour 25 bbl. Bottom Hole Pressure 2332 psig.

21) Detailed indentification of materials to be injected, including additives: Fresh water, produced water, bactericides and other chemicals as needed to maintain water quality and improve oil recovery.

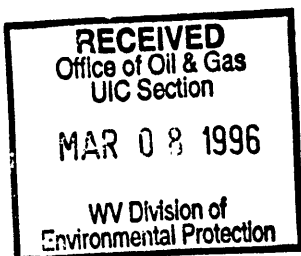
22) Filters (if any): Cartridge filters and/or coal bed filters

23) Specifications for cathodic protection and other corrosion control: _____

24) CASING AND TUBING PROGRAM:

CASING OR TUBING TYPE	SPECIFICATIONS					FOOTAGE INTERVALS		CEMENT FILLUP OR SACKS	PACKERS
	Size	Grade	Weight	New	Used	For Drilling	Left in Well		
Conductor									Kinds
Fresh Water	8 5/8"	L.S.	20#	X		200	200	Cement To	
Coal								Surface	Sizes
Intermediate									
Production	4 1/2"	J-55	10.5#	X		2843	2843	Cement Over	Depths Set
Tubing								Salt Sand	
Liners									Perforations
									Top Bottom

25) APPLICANTS OPERATING RIGHTS were acquired from Nellie Amos et vir
 by Deed _____ Lease Other Contract _____ Dated September 1, 1984 of record in the
Wetzel County Clerk's Office in Lease Book 306 at Page 379



1) Date March 4, 1996
2) Well No. Anderson Wiley E-26
3) SIC Code _____
4) API Well No. 47 - 103 - 1699-21
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 Carl E. Fluharty Sr.
Address S.R. 550 West
Barlow, OH 45712
(ii) Name Carole Stackpole
Address HC 60, Box 290
Reader, WV 26167
(iii) Name Austin Hall Jr.
Address HC 60, Box 280
Reader, WV 26167

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
Its Timothy P. Roush
Supervisor, Surveying/Mapping
Telephone (304) 422-6565

**OFFICE USE ONLY
DRILLING PERMIT**

Permit number 47-103-1699-LI

April 29th. 96
Date 19

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 4-29-98 unless well work is commenced prior to that date and prosecuted with due diligence.

Bond: ✓	Agent: ✓	Plat: <i>HS</i>	Casing: <i>HS</i>	Fee: <i>CK# 0301298175</i>
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Michael D. Lewis

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.

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

OTHER INSPECTIONS

Reason: _____

Reason: _____