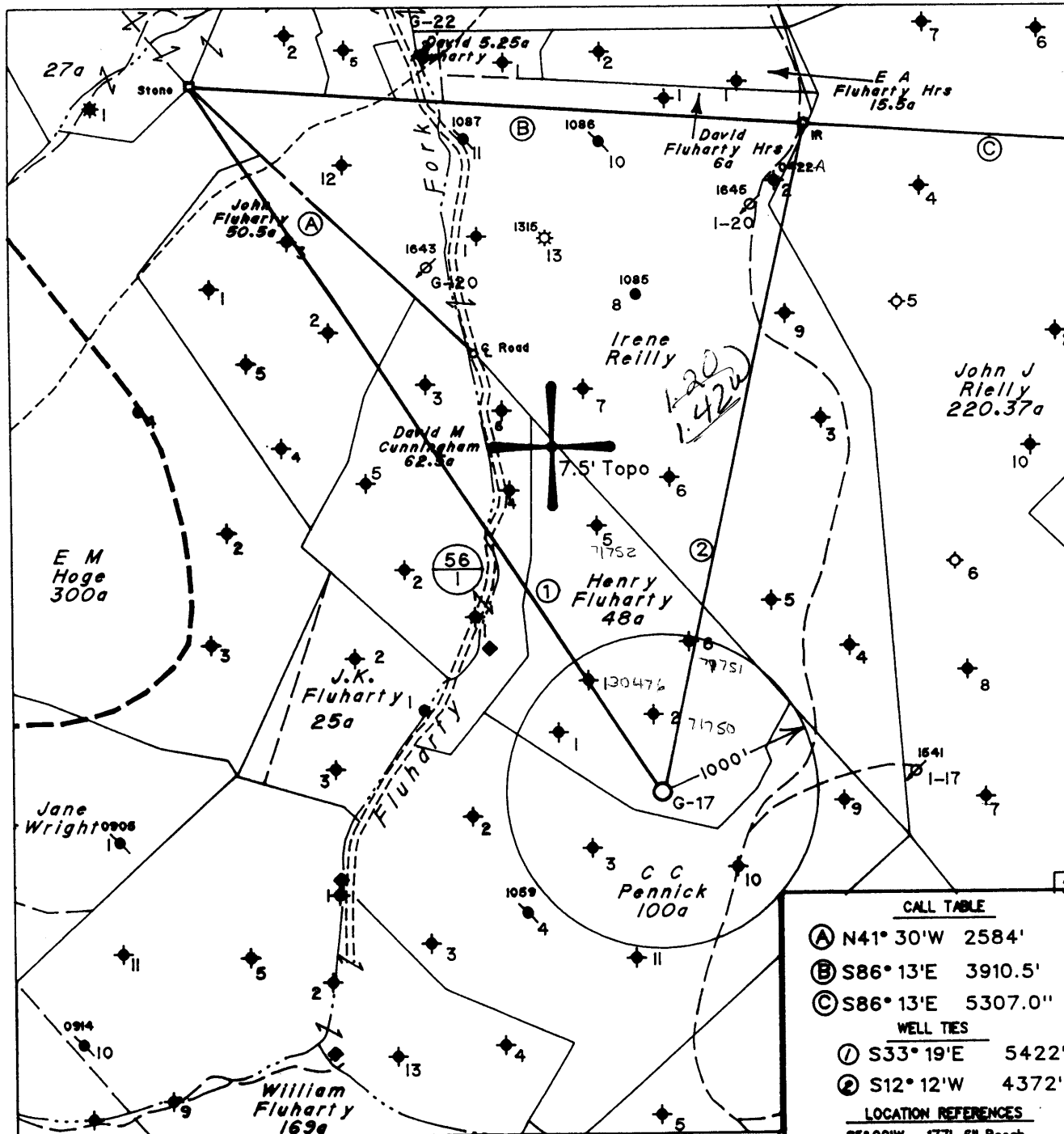


LATITUDE 39° 30' 00"

LONGITUDE 80° 40' 00"



Note: No Known Water Supply Sources Are Located Within 1000' Of Proposed Well

◆ Denotes a Water Supply Source

CALL TABLE

- Ⓐ N41° 30' W 2584'
- Ⓑ S86° 13' E 3910.5'
- Ⓒ S86° 13' E 5307.0'

WELL TIES

- ① S33° 19' E 5422'
- ② S12° 12' W 4372'

LOCATION REFERENCES

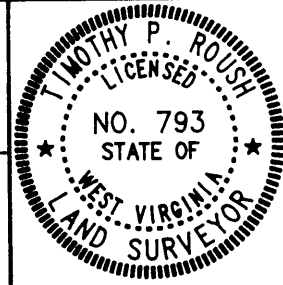
- S5° 00' W 177' 6" Beech
- S36° 08' E 123' 6" Red Oak
- N89° 52' E 138' 4" Beech

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

FILE NO. 238  
 MAP NO. N57 N 3 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 PS 793



STATE OF WEST VIRGINIA  
 DIVISION OF ENERGY  
 OIL AND GAS SECTION



DATE March 23, 19 95  
 FARM Henry Fluharty NO. G-17  
 API WELL NO. 47-103-1675-5

WELL TYPE: OIL  GAS  LIQUID INJECTION  WASTE DISPOSAL   
 (IF "GAS") PRODUCTION  STORAGE  DEEP  SHALLOW   
 LOCATION: ELEVATION (1243') WATERSHED Fluharty Fork  
 DISTRICT Green COUNTY Wetzel  
 QUADRANGLE Centerpoint NW

SURFACE OWNER Pig In A Poke, Inc. ACREAGE 45 Ac.  
 OIL & GAS ROYALTY OWNER Pennzoil Products Co. et al. LEASE ACREAGE 48 Ac.

LEASE NO. 57197-00

PROPOSED WORK: DRILL  CONVERT  DRILL DEEPER  REDRILL  FRACTURE OR STIMULATE  PLUG OFF OLD FORMATION  PERFORATE NEW FORMATION  OTHER PHYSICAL CHANGE IN WELL (SPECIFY) 8-0 95

PLUG AND ABANDON  CLEAN OUT AND REPLUG   
 TARGET FORMATION Gordon ESTIMATED DEPTH 3240'  
 WELL OPERATOR Pennzoil Products Company DESIGNATED AGENT James A. Crews  
 ADDRESS P. O. Box 5519 ADDRESS P. O. Box 5519  
Vienna, W.Va. 26105 Vienna, W.Va. 26105

FORM IV-6

RECEIVED  
WV Division of  
Environmental Protection

NOV 19 1996

3-May-95  
API # 47 -103- 1675

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: Pig in a Poke, Inc.

Operator Well No.: Henry Fluharty G-17

LOCATION: Elevation: 1,127.00 Quadrangle: Center Point  
District: Green County: Wetzel  
Latitude: 6,300 Feet south of 39 Deg 30 Min 0 Sec.  
Longitude: 7,500 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: 5/3/95

Well work Commenced: 7/27/95

Well work Completed: 7/5/96

Verbal plugging

permission granted on: \_\_\_\_\_

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

Total Depth (feet) 3255'

Fresh water depths (ft) NA

Salt water depths (ft) NA

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

Coal Depths (ft): NA

Casing & Tubing Size	Used in Drilling	Left in Well	Cement Fill Up Cu. Ft.
8 5/8"	524'	524'	160 Sacks
4 1/2"	3201.75'	3201.75'	170 Sacks

OPEN FLOW DATA

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

Producing formation Gordon Pay zone depth (ft) 3090-3155

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: 11/13/96

NOV 22 1996

**Treatment:**

**Perforations:**

**3118-3128 - 4 holes/ft. (40 holes)**

**Treatment:**

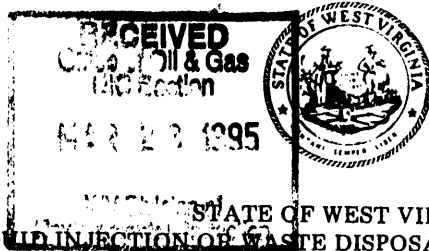
**Treated via 4.5" Casing with 300 gals. mud acid, 184 bbls. gelled water and 2,300 lbs. of 20/40 sand.**

**Well Log:**

Sand & Shale	0	-	1582
Sand	1582	-	1638
Shale	1638	-	1664
Sand	1664	-	1700
Sand & Shale	1700	-	2232
Sand	2232	-	2243
Shale	2243	-	2259
Sand	2259	-	2280
Shale	2280	-	2331
Sand <i>Layer?</i>	2331	-	2523
Shale	2523	-	3090
Gordon	3090	-	3155
TD	3255		

10/91

20611



1) Date: March 24, 19 95  
 2) Operator's Well No. Henry Fluharty G-17  
 3) SIC Code \_\_\_\_\_  
 4) API Well NO. 47 - 103 - 1675-LIS  
                     State           County           Permit  
 5) UIC Permit No. Issued 05/03/95

STATE OF WEST VIRGINIA  
 NOTICE OF LIQUID INJECTION OF WASTE DISPOSAL WELL WORK PERMIT APPLICATION  
 for the  
 DIVISION OF ENVIRONMENTAL PROTECTION, OFFICE OF OIL AND GAS Expires 05/03/97

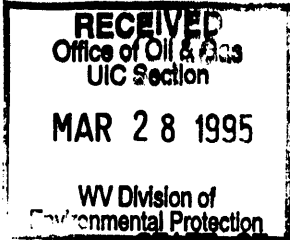
- 6) WELL TYPE: Liquid injection  / Gas injection (not storage) \_\_\_\_\_ / Waste disposal \_\_\_\_\_  
 7) LOCATION: Elevation: 1243 Watershed: Fluharty Fork  
                     District: Green County: Wetzel Quadrangle: Centerpoint  
 8) WELL OPERATOR Pennzoil Products Co. 37450 9) DESIGNATED AGENT James A. Crews  
                     Address P. O. Box 5519 4670 Address 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 419 Depth 3123 feet (top) to 3138 feet (bottom)  
 14) Estimated depth of completed well, (or actual depth of existing well) 3240 ft.  
 15) Approximate water strata depths; Fresh, 423 feet; salt, 1450 feet.  
 16) Approximate coal seam depths: 1055  
 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 (BHFP)  
 20) MAXIMUM PROPOSED INJECTION OPERATIONS: Volume per hour: 25 Bottom hole pressure 2332  
 21) DETAILED IDENTIFICATION OF MATERIALS TO BE INJECTED, INCLUDING ADDITIVES: Fresh water, produced water, bactericides and other chemicals as needed to maintain water quality & improve oil recovery.  
 22) FILTERS (IF ANY): Cartridge and/or Coalbed Filters  
 23) SPECIFICATIONS FOR CATHODIC PROTECTION AND OTHER CORROSION CONTROL: \_\_\_\_\_

24) 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									Kinds
Fresh water	8-5/8	I.S.	20	X		493	493	Cement to surface	Sizes
Coal									
Intermediate									
Production	4-1/2	J-55	10.5	X		3240	3240	Cement over salt sand	Depths set
Tubing									
Liners									Perforations: Top Bottom

25) APPLICANT'S OPERATING RIGHTS were acquired from Kermit McIntyre  
 by deed \_\_\_\_\_ / lease  / other contract \_\_\_\_\_ / dated July 5, 19 84, of record in the  
Wetzel County Clerk's office in Lease Book 67-A at page 91

See the reverse side of the APPLICANT'S COPY for instructions to the well operator.



1) Date March 24, 1995  
Operator's  
2) Well No. Henry Fluharty No. G-17  
3) SIC Code  
4) API Well No. 47 - 103 - 1675  
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 Pig in a Poke, Inc.  
Address c/o Eugene Pialet  
249 Putnam Lane  
(ii) Name Weirton, WV 26062  
Address  
WV Public Land Corp.  
(iii) Name Bldg. #3, Room 643  
Address 1900 Kanawha Blvd. E.  
Charleston, WV 25305

7 (i) ~~EXPLORER~~ SURFACE OWNER Dept. of Natural Resources  
Address Attn: Gary Foster  
1304 Goose Run Road  
Fairmont, WV 26554  
Name  
Address  
7 (iii) COAL LESSEE WITH DECLARATION ON RECORD:  
Name  
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 \_\_\_\_\_, 19\_\_\_\_.

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 47-103-1675-LI

May 3 19 95  
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 5-3-97 unless well work is commenced prior to that date and prosecuted with due diligence.

Bond: ✓	Agent: ✓	Plat: <i>MS</i>	Casing: <i>MS</i>	Fee: <i>CKE 21495</i>
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*Michael W. 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.

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

OTHER INSPECTIONS

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

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