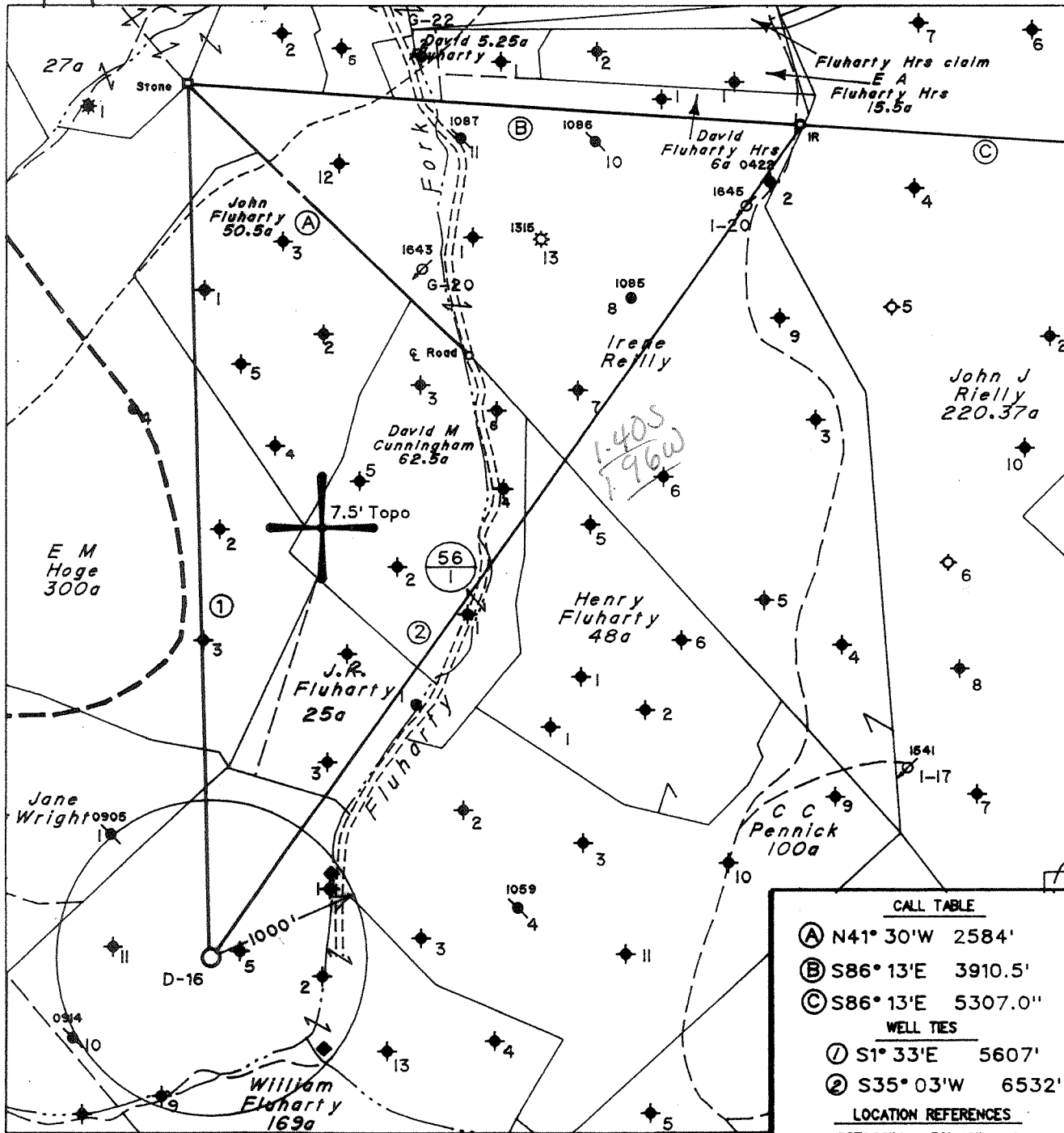


GS 3/14/95



LONGITUDE 80° 40' 00"

7,350'

CALL TABLE	
(A)	N41° 30' W 2584'
(B)	S86° 13' E 3910.5'
(C)	S86° 13' E 5307.0'
WELL TIES	
(1)	S1° 33' E 5607'
(2)	S35° 03' W 6532'
LOCATION REFERENCES	
S57° 26' W	136' 12" Maple
N89° 48' W	129' 12" Hickory
N47° 41' E	116' 8" Maple

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

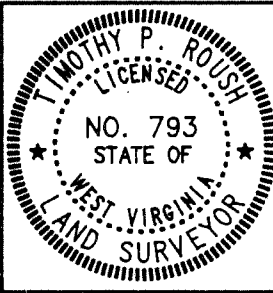
Denotes a Water Supply Source

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

FILE NO. 1061  
 MAP NO. N57 N 3 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 MINES.

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



STATE OF WEST VIRGINIA  
 DIVISION OF ENERGY  
 OIL AND GAS SECTION



DATE March 2, 19 95  
 FARM William Fluharty NO. D-16  
 API WELL NO. 47-103-01681

WELL TYPE: OIL  GAS  LIQUID INJECTION  WASTE DISPOSAL   
 (IF "GAS") PRODUCTION  STORAGE  DEEP  SHALLOW   
 LOCATION: ELEVATION 1261' WATERSHED Fluharty Fork  
 DISTRICT Green COUNTY Wetzel  
 QUADRANGLE Centerpoint NW  
 SURFACE OWNER Virginia Fluharty Drew etal ACREAGE 168.5 Ac.  
 OIL & GAS ROYALTY OWNER Pennzoil Products Co. et.al. LEASE ACREAGE 240 Ac.  
 LEASE NO. Fee-2831  
 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 3250'  
 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

JUN 27 1995  
 8-095

APR 10 1996

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

Permitting  
Office of Oil & Gas

Well Operator's Report of Well Work

Farm name: DREW, VIRGINIA FLUHARTY

Operator Well No.: WM. FLUHARTY D-16

LOCATION: Elevation: 1,261

Quadrangle: CENTERPOINT

District: GREEN

County: WETZEL

Latitude: 7,350 Feet south of

39 Deg 30 Min 0 Sec.

Longitude: 10,375 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: 5/31/95

Well work Commenced: 7/21/95

Well work Completed: 10/31/95

Verbal plugging permission granted on:

Rotary X Cable      Rig     

Total Depth (feet) 3,261

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	527'	527'	300 SKS
4 1/2"	3196.45'	3196.45'	170 SKS

OPEN FLOW DATA

\*Waterflood Producer

Producing formation GORDON Pay zone depth (ft) 3088-3148  
 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: Philip S. Ondrusek

Date: 4/8/96

APR 10 1996

**Treatment :** Perforated Gordon 3121-3130 (36 Holes) Treated via 4 1/2" with 281 BBL gelled water & 13,000# 20/40 Sand, 300 gal 15% HCl Acid.

**Well Log :**

Sand & Shale	0	-	1452'
Sand	1452'	-	1488'
Sand & Shale	1488'	-	1676'
Sand	1676'	-	1690'
Sand & Shale	1690'	-	2224'
Sand	2224'	-	2246'
Shale	2246'	-	2328'
Sand <i>Sand</i>	2328'	-	2518'
Shale	2518'	-	3038'
Gordon	3038'	-	3148'
T.D.	3261'		

**RECEIVED**  
Office of Oil & Gas  
UIC Section  
**MAY 15 1995**  
WV Division of  
Environmental Protection

103-1681  
Issued 05/31/95  
Page 3 of 4  
Expires 05/31/97

FORM WW-2B

**STATE OF WEST VIRGINIA**  
**DEPARTMENT OF ENERGY, DIVISION OF OIL AND GAS**  
**WELL WORK PERMIT APPLICATION**

1. Well Operator: Pennzoil Products Company <sup>4670</sup> 37450 (S) 286
2. Operator's Well Number: Wm. Fluharty No. D-16 3. Elevation: 1261'
4. Well type: (a) Oil  or Gas  or Observation   
 (b) If Gas: Production  Underground storage   
 Deep  Shallow
5. Proposed Target Formation(s): Gordon <sup>219</sup>
6. Proposed Total Depth: 3250 feet
7. Approximate fresh water strata depths: 441'
8. Approximate salt water depths: 1468'
9. Approximate coal seam depths: 1073'
10. Does land contain coal seams tributary to active mine? Yes  No
11. Proposed Well Work: Drill & stimulate new well.

12.

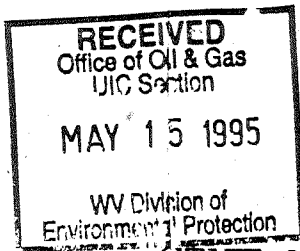
**CASING AND TUBING PROGRAM**

TYPE	SPECIFICATIONS			FOOTAGE INTERVALS		CEMENT
	Size	Grade	Weight per/ft.	For drilling	Left in well	Fill-up (cu. ft.)
Conductor						<u>3805 P 11.3</u>
Fresh water	8-5/8"	L.S.	20	511'	511'	Cmt. to surface
Coal						<u>3805 P 11.2.2</u>
Intermediate						
Production	4-1/2"	J-55	10.5	3250'	3250'	Cmt. over salt sand
Tubing						
Liners						<u>3805 P 11.1</u>

**PACKERS:** Kind \_\_\_\_\_  
 Sizes \_\_\_\_\_  
 Depths set \_\_\_\_\_

For Division of Oil and Gas Use Only

<sup>121470</sup>  
 Fee(s) paid  Well Work Permit  Reclamation Fund  WPCP  
 Plat  WW-9  WW-2B  Bond Blanket  Agent



- 1) Date: May 9, 1995
- 2) Operator's well number William Fluharty No. D-16
- 3) API Well No: 47 - 103 - 1681  
State - County - Permit

STATE OF WEST VIRGINIA  
DIVISION OF ENVIRONMENTAL PROTECTION, OFFICE OF OIL AND GAS

NOTICE AND APPLICATION FOR A WELL WORK PERMIT

- 4) Surface Owner(s) to be served:
  - (a) Name Virginia Fluharty Drew  
Address 2831 Washington Ave.  
St. Albans, WV 25177
  - (b) Name \_\_\_\_\_  
Address \_\_\_\_\_
  - (c) Name \_\_\_\_\_  
Address \_\_\_\_\_
- 6) Inspector Mike Underwood  
Address Route 2, Box 135  
Salem, WV 26426  
Telephone (304)- 782-1043

- 5) (a) Coal Operator:
  - Name N/A  
Address \_\_\_\_\_
  - (b) Coal Owner(s) with Declaration
    - Name \_\_\_\_\_  
Address \_\_\_\_\_
  - (c) Coal Lessee with Declaration
    - Name \_\_\_\_\_  
Address \_\_\_\_\_

TO THE PERSON(S) NAMED ABOVE TAKE NOTICE THAT:

\_\_\_\_\_ Included is the lease or leases or other continuing contract or contracts by which I hold the right to extract oil and gas OR  
 X Included is the information required by Chapter 22B, Article 1, Section 8(d) of the Code of West Virginia (see page 2)

I certify that as required under Chapter 22B of the West Virginia Code I have served copies of this notice and application, a location plat, and accompanying documents pages 1 through \_\_\_\_\_ on the above named parties, by:  
\_\_\_\_\_ Personal Service (Affidavit attached)  
 X Certified Mail (Postmarked postal receipt attached)  
\_\_\_\_\_ Publication (Notice of Publication attached)

I have read and understand Chapter 22B and 38 CSR 11-18, and I agree to the terms and conditions of any permit issued under this application. I certify under penalty of law that I have personally examined and am familiar with the information submitted on this application form 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.

Well Operator Pennzoil Products Company  
BY: [Signature] Timothy P. Roush  
Its: Supervisor, Surveying/Mapping  
Address P. O. Box 5519  
Vienna, WV 26105  
Telephone (304) 422-6565

Subscribed and sworn before me this 9th day of May, 19 95

[Signature]  
My commission expires October 24, 1999.

