

CALL TABLE	
A.	S 61° 57' E 1386.00'
B.	S 60° 57' E 726.21'
C.	N 74° 06' E 661.41'
D.	N 34° 28' E 627.00'
E.	N 47° 28' E 198.00'
F.	N 3° 28' E 825.00'
G.	S 17° 36' E 3052.50'

Unit Line & Property Line

WELL TIES	
①	S70° 41' E 4227'
②	N55° 09' E 4179'

LOCATION REFERENCES	
N83° 5' E 150' 3"	Hickory
N50° 15' E 134' 4"	Beech
N48° 43' W 122' 9"	White Oak

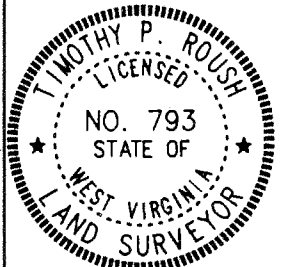
Note: No Known Water Supply Sources Are Located Within 1000' Of Proposed Well

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

FILE NO. 1782  
 MAP NO. N48 N 2 S E W 3  
 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



WEST VIRGINIA  
 DIVISION OF ENVIRONMENTAL PROTECTION  
 OFFICE OF OIL AND GAS  
 #10 McJUNKIN ROAD  
 NITRO, WEST VIRGINIA 25143-2506



DATE June 6, 19 97  
 FARM E.B. Lemasters NO. P-13  
 API WELL NO. 47-103-01740

WELL TYPE: OIL  GAS \_\_\_\_\_ LIQUID INJECTION \_\_\_\_\_ WASTE DISPOSAL \_\_\_\_\_  
 (IF "GAS") PRODUCTION \_\_\_\_\_ STORAGE \_\_\_\_\_ DEEP \_\_\_\_\_ SHALLOW \_\_\_\_\_  
 LOCATION: ELEVATION 1254' WATERSHED Piney Fork  
 DISTRICT Green COUNTY Wetzel  
 QUADRANGLE Centerpoint  
 SURFACE OWNER State of West Virginia ACREAGE 110 Ac.  
 OIL & GAS ROYALTY OWNER Pennzoil Products Co. et.al. LEASE ACREAGE 93 Ac.  
 LEASE NO. 47254-00  
 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 3270'  
 WELL OPERATOR Pennzoil Products Company DESIGNATED AGENT Philip S. Ondrusek  
 ADDRESS P. O. Box 5519 ADDRESS P. O. Box 5519  
 Vienna, W.Va. 26105 Vienna, W.Va. 26105

JUN 27 1997

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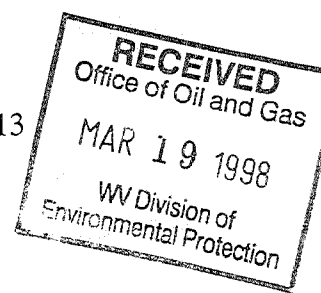
WR-35

25-Jun-97

API # 47 -103- 1740

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

Well Operator's Report of Well Work



Farm name: WVA Public Lands  
LOCATION: Elevation: 1,254.00  
District: Green  
Latitude: 9,500 Feet south of  
Longitude: 10,550 Feet west of

Operator Well No.: E.B. Lemasters P-13  
Quadrangle: Center Point  
County: Wetzel  
39 Deg 30 Min 0 Sec.  
80 Deg 37 Min 30 Sec.

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

Agent: PHILIP S. ONDRUSEK  
Inspector: Randal Mick  
Permit Issued: 6/26/97  
Well work Commenced: 7/18/97  
Well work Completed: 9/26/97  
Verbal plugging permission granted on:  
Rotary X Cable \_\_\_\_\_ Rig \_\_\_\_\_  
Total Depth (feet) 3338'  
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"	487'	487'	225 Sacks
4 1/2"	3237.80'	3237.80'	275 Sacks

OPEN FLOW DATA

Producing formation Gordon Pay zone depth (ft) 3168'  
 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: 3/17/98

MAR 13 1998

WET 1740

**Treatment :**

Perforated Gordon sand with 20 holes from 3159'-3164' K.B. Fractured with 300 gals 15% HCL and 195 bbls gelled water and 11,000 lbs. 20/40 sand

**Well Log :**

All depth are relative to K.B.

0	500 Sand and Shale
500	852 Shale
852	952 sand
952	1184 Shale
1184	1310 sand
1310	1630 Shale
1630	1924 sand
1924	1972 Shale
1972	2004 sand
2004	2070 Shale
2070	2116 sand
2116	2306 Shale
2306	2430 Big Lime
2430	2564 Big Injun
2564	3146 Shale
3146	3168 Gordon Stray
3168	3184 Gordon
3184	3338 Shale

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STATE OF WEST VIRGINIA  
DIVISION OF ENVIRONMENTAL PROTECTION, OFFICE OF OIL AND GAS  
WELL WORK PERMIT APPLICATION

1) Well Operator: Pennzoil Products Company 37450 286 (5)

2) Operator's Well Number: E.B. Lemasters No. P-13 3) Elevation 1254

Well Type: (a) Oil X or Gas \_\_\_\_\_

(b) If Gas: Production \_\_\_\_\_

Underground Storage \_\_\_\_\_

Issued 06/26/97  
Expires 06/26/99

Proposed Target Formation(s): Gordon 410

Proposed Total Depth: 3270 feet

Approximate fresh water strata depths: 430

Approximate salt water depths: NA

9) Approximate coal seam depths: NA

10) Does land contain coal seams tributary to active mine? Yes \_\_\_\_\_ No X

11) Proposed Well Work: Drill and Stimulate New Well

12) CASING AND TUBING PROGRAM

TYPE	SPECIFICATIONS		Weight Per Ft.	For Drilling	FOOTAGE INTERVALS	Left in Well	CEMENT
	Size	Grade					
Conductor						<u>580</u>	<u>38 CS 8 1/2 3</u>
Fresh Water	8 5/8	L.S.	20	480		480	Cement to Surface
Coal							<u>38 CS 8 1/2 2.2</u>
Intermediate							
Production	4 1/2	J-55	10.5	3230		<u>3230</u>	Cement over Salt Sand
Tubing							<u>38 CS 8 1/2 1</u>
Liners							

Packers: Kind \_\_\_\_\_  
Sizes \_\_\_\_\_  
Depths set \_\_\_\_\_

For Office of Oil and Gas Use Only

Fee(s) Paid  Well Work Permit  Reclamation Fund  WPCP  
 Plat  WW-9  WW-2B  Bond \_\_\_\_\_  Agent  
(Type)

23809

Office of Oil and Gas  
JULY

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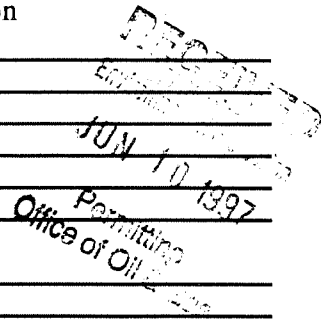
1) Date: June 6, 1997  
2) Operator's Well Number  
E.B. Lemasters No. P-13  
3) API Well No: 47 - 103 - 1740  
State County Permit

**STATE OF WEST VIRGINIA - BUREAU OF ENVIRONMENT  
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 W.Va. Public Lands Corp.  
Address Building No.3, Room 643  
1900 Kanawha Blvd. East  
(b) Name Charleston, WV 25305  
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 NA  
Address \_\_\_\_\_  
(b) Coal Owner(s) with Declaration  
Name NA  
Address \_\_\_\_\_  
Name \_\_\_\_\_  
Address \_\_\_\_\_  
(c) Coal Lessee with Declaration  
Name NA  
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**  
 Included is the information required by Chapter 22, Article 6, Section 8(d) of the Code of West Virginia (see page 2)

I certify that as required under Chapter 22 of the West Virginia Code I have served copies of this notice and application, a location plat, and accompanying documents pages 1 through 4 on the above-named parties, by:

- \_\_\_\_\_ Personal Service (Affidavit attached)
- Certified Mail (Postmarked postal receipt attached)
- \_\_\_\_\_ Publication (Notice of Publication attached)

I have read and understand Chapter 22-6 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 26105-5519  
Telephone (304) 422-6565

Subscribed and sworn before me this 6th day of June  
[Signature] Notary Public

My commision expires 10/3/2000

