

Call Table	
A	S20° W 62 P.
B	S61° 14'E 709.5'
C	N77° 47'E 594.0'
D	N60° 34'E 701.0'
E	N19° W 40 P.
WELL TIES	
①	N0° 45'E 4951'
②	N12° 25'W 5290'
LOCATION REFERENCES	
S11° 54'E	116' 5" Persimmon
S32° 18'W	119' 10" Poplar
N62° 53'E	115' 8" Pine

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

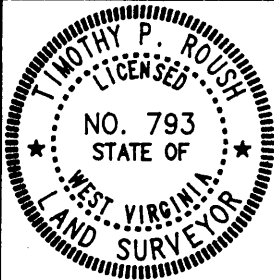
◆ Denotes a Water Supply Source

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

FILE NO. 1817
 MAP NO. N47 N S1 E W5
 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 May 6, 19 96
 FARM P.G. Wright NO. D-3
 API WELL NO. 47-095-01649-5



WELL TYPE: OIL ___ GAS ___ LIQUID INJECTION X WASTE DISPOSAL ___
 (IF "GAS") PRODUCTION ___ STORAGE ___ DEEP ___ SHALLOW ___
 LOCATION: ELEVATION 932' WATERSHED Indicn Creek
 DISTRICT McElroy COUNTY Tyler
 QUADRANGLE Centerpoint 7.5'
 SURFACE OWNER Homer R. Baker ACREAGE 67.25 Ac.
 OIL & GAS ROYALTY OWNER Pennzoil Products Co. et.al. LEASE ACREAGE 71 Ac.
 LEASE NO. 47208-00
 PROPOSED WORK: DRILL X CONVERT ___ DRILL DEEPER ___ REDRILL ___ FRACTURE OR STIMULATE X 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 2932'
 WELL OPERATOR Pennzoil Products Company DESIGNATED AGENT Philip S. Ondrusek
 ADDRESS P. O. Box 5519 ADDRESS P. O. Box 5519
4670 ADDRESS Vienna, W.Va. 26105 ADDRESS Vienna, W.Va. 26105

9-0 95

WR-35
 RECEIVED
 Division of Environmental Protection
 JAN 06 1997
 Permitting
 Office of Oil & Gas

10-Jun-96
 API # 47 -095- 1649

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

Well Operator's Report of Well Work

Farm name: Baker, Homer R.
 LOCATION: Elevation: 932.00'
 District: McElroy
 Latitude: 4,750 Feet south of
 Longitude: 11,200 Feet west of
 Company: PENNZOIL PRODUCTS COMPANY
 P.O. BOX 5519
 VIENNA, WV 26105-5519
 Agent: PHILIP S. ONDRUSEK
 Inspector: Mike Underwood
 Permit Issued: 6/10/96
 Well work Commenced: 7/17/96
 Well work Completed: 10/25/96
 Verbal plugging permission granted on:
 Rotary Cable _____ Rig _____
 Total Depth (feet) 2933'
 Fresh water depths (ft) NA
 Salt water depths (ft) NA
 Is coal being mined in area (Y/N) N
 Coal Depths (ft): 726-730

Operator Well No.: P.G. Wright #D-3
 Quadrangle: Center Point
 County: Tyler
 39 Deg 27 Min 30 Sec.
 80 Deg 40 Min 00 Sec.

Casing & Tubing Size	Used in Drilling	Left in Well	Cement Fill Up Cu. Ft.
8-5/8"	262'	262'	160 Sacks
4 1/2"	2879.1'	2879.1'	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) 2790-2802
 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: 12/27/96 JAN 10 1997

Treatment:

Perforations:

2795' - 2802' - 4 holes/ft. (28 holes)

Treatment:

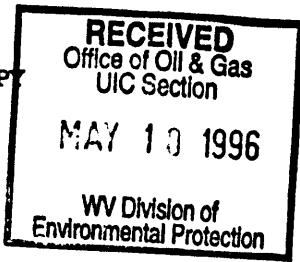
Treated via 4.5" Casing with 300 gals. 15% HCl, 196 bbls.

Borate cross-linked gelled water and 13,200 lbs. of 20/40 sand.

Well Log:

TD - 2933'

Sand & Shale	0	-	270
Shale	270	-	314
Sand	314	-	324
Shale	324	-	726
Coal	726	-	730
Sand	730	-	750
Shale	750	-	796
Sand	796	-	822
Shale	822	-	1012
Sand	1012	-	1030
Shale	1030	-	1088
Sand	1088	-	1110
Shale	1110	-	1342
Sand	1342	-	1368
Shale	1368	-	1442
Sand	1442	-	1454
Shale	1454	-	1492
Sand	1492	-	1510
Sand & Shale	1510	-	1924
Sand	1924	-	1980
Big Lime	1980	-	2032
Big Injun	2032	-	2203
Shale	2203	-	2790
Gordon	2790	-	2802
Shale	2802	-	2812
Sand	2812	-	2819
Shale	2819	-	2933



1) Date May 7, 1996
 2) Well No. P.G. Wright No.D-8
 3) SIC Code _____
 4) API Well No. 47 - 095 - 1649-LI
 State County Permit
 5) UIC Code _____

*Issued 06/10/96
Expires 06/10/98*

STATE OF WEST VIRGINIA
 NOTICE OF LIQUID INJECTION OR WASTE DISPOSAL WELL WORK PERMIT APPLICATION

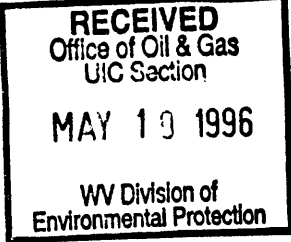
for the
DIVISION OF ENVIRONMENTAL PROTECTION, OFFICE OF OIL AND GAS

- WELL TYPE: Liquid Injection X Gas Injection _____ Waste Disposal _____
- 7) LOCATION: Elevation 932 Watershed Indian Creek
 District McElroy County Tyler Quadrangle _____ Centerpoint 286
- 8) WELL OPERATOR: Pennzoil Products Company 4670
P.O. Box 5519
Vienna, WV 26105
- 9) DESIGNATED AGENT: Philip S. Ondrusek
P.O. Box 5519
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 X Drill Deeper _____ Redrill _____ Stimulate X
 Plug Off Old Formation _____ Perforate New Formation _____ Convert _____
 Other Physical Change in Well (specify) _____
- 13) Geological target formation Gordon Depth 2792 Ft. (Top) to 2907 Ft. (Bottom)
- 14) Estimated depth of completed well (or actual depth of existing well) 2932 Ft.
- 15) Approximate water strata depths: Fresh 112 Ft. Salt 1139 Ft.
- 16) Approximate coal seam depths: 744 Ft.
- 17) Is coal being mined in the area? Yes X 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 identification 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	Size	SPECIFICATIONS				FOOTAGE INTERVALS		CEMENT FILLUP OR SACKS	PACKERS
		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		2932	2932	Cement Over	Depths Set
Tubing								Salt Sand	
Liners									Perforations
									Top Bottom

- 25) APPLICANTS OPERATING RIGHTS were acquired from Robert O. Underwood
 by Deed _____ Lease X Other Contract _____ Dated August 11, 1978 of record in the
Tyler County Clerk's Office in Deed Book 216 at Page 638



1) Date May 7, 1996
2) Well No. P.G. Wright No.D-3
3) SIC Code _____
4) API Well No. 47 - 095 - 1649-61
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 Homer R. Baker
Address Alvy, WV 26322

(ii) Name _____
Address _____

(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 [Signature]
Its Supervisor, Surveying/Mapping
Telephone (304) 422-6565

**OFFICE USE ONLY
DRILLING PERMIT**

Permit number 47-095-1649-LI

Date June 10th. 19 96

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 6-10-98 unless well work is commenced prior to that date and prosecuted with due diligence.

Bond: ✓	Agent: ✓	Plat: MS	Casing: MS	Fee: CR#
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030B44507

[Signature]
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: _____