

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

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

CALL TABLE	
(A)	S86° 13'E 9217.5'
(B)	S86° 10'E 4800.0'
(C)	S86° 10'E 5419.8'

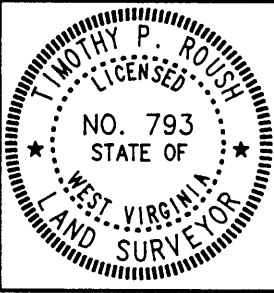
Unit Line & Property Line

WELL TIES	
(1)	S70° 37'E 3937'
(2)	S47° 29'W 1460'

FILE NO. 1732
 MAP NO. N58 N 4 S E W 2
 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 August 19, 19 94
 FARM Michael Reilly NO. 2
 API WELL NO. 47-103-1090-5

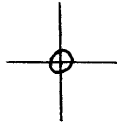
WELL TYPE: OIL GAS LIQUID INJECTION WASTE DISPOSAL
 (IF "GAS") PRODUCTION STORAGE DEEP SHALLOW
 LOCATION: ELEVATION 1499' WATERSHED Piney Fork
 DISTRICT Green COUNTY Wetzel
 QUADRANGLE Centerpoint NC

SURFACE OWNER State of West Virginia ACREAGE 253 Ac.
 OIL & GAS ROYALTY OWNER Pennzoil Products Co. et.al. LEASE ACREAGE 253 Ac.
 LEASE NO. 47257-00

PROPOSED WORK: DRILL CONVERT DRILL DEEPER REDRILL FRACTURE OR STIMULATE PLUG OFF OLD FORMATION PERFORATE NEW FORMATION OTHER PHYSICAL CHANGE IN WELL (SPECIFY) Side Track Well 1094

PLUG AND ABANDON CLEAN OUT AND REPLUG
 TARGET FORMATION Gordon ESTIMATED DEPTH 3406'
 WELL OPERATOR Pennzoil Products Company DESIGNATED AGENT James A. Crews
 ADDRESS P. O. Box 5519 673 ADDRESS P. O. Box 5519
Vienna, W.Va. 26105 Vienna, W.Va. 26105

LATITUDE 39° 30' 00"



LONGITUDE 80° 37' 30"

7'5 OGIS topo location

7.5' 10C 0.74 S 15' 10C _____
' 1.75 W (calc.) _____

Company _____

Farm _____

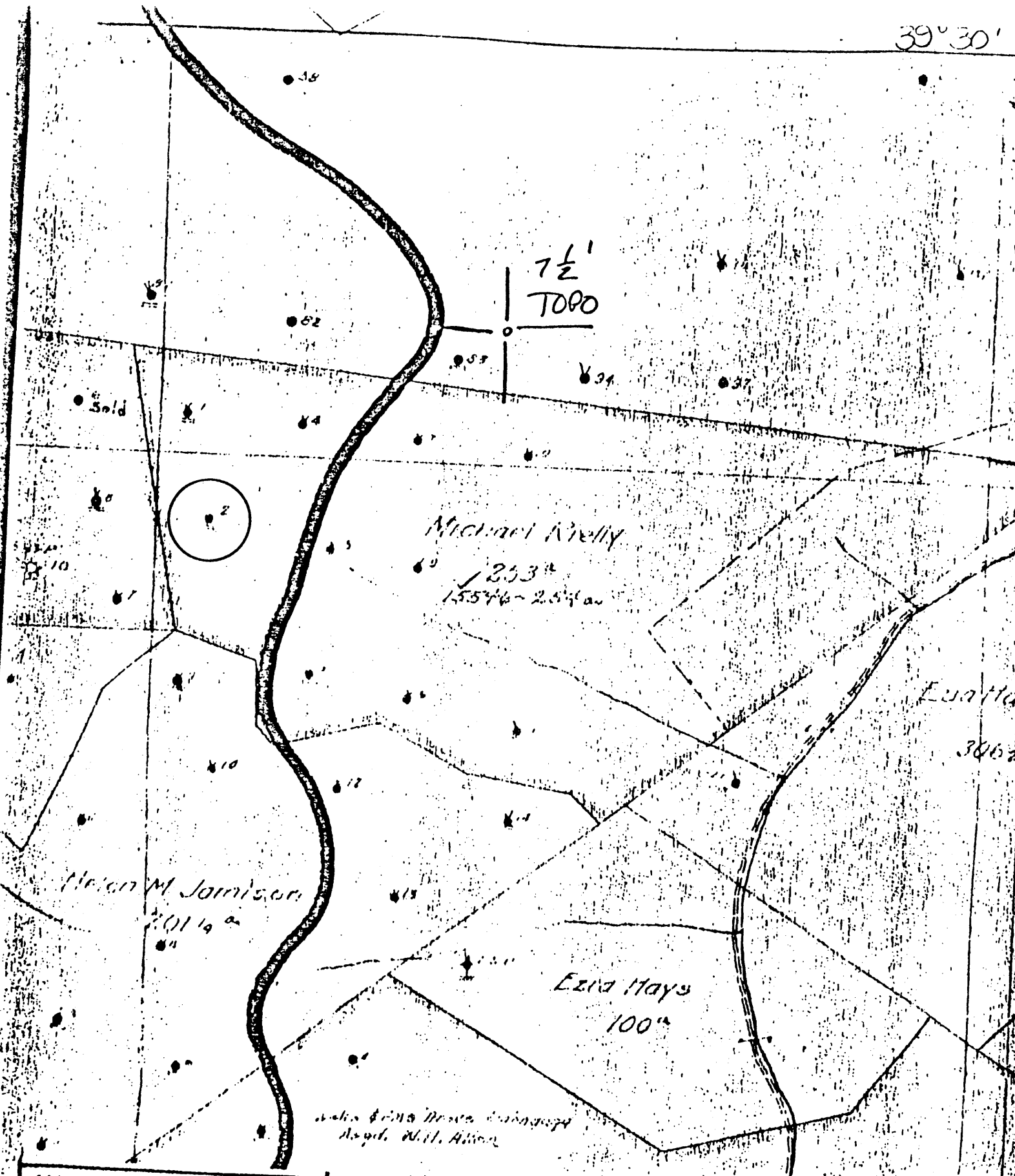
Quad CENTER POINT 7 1/2'

County WETZEL

District GREEN

WELL LOCATION MAP

File No. 103-1090



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



DATE JAN., 19 79
 OPERATOR'S WELL NO. 2
 API WELL NO. 47-103-1090
 STATE COUNTY PERMIT

STATE OF WEST VIRGINIA
 DEPARTMENT OF MINES
 OIL AND GAS DIVISION

WELL TYPE: OIL GAS LIQUID INJECTION WASTE DISPOSAL
 (IF "GAS", PRODUCTION STORAGE DEEP SHALLOW
 LOCATION: ELEVATION NA WATER SHED CAMPBELL RUN
 DISTRICT GREEN COUNTY WETZEL
 QUADRANGLE CENTER POINT

SURFACE OWNER _____ ACREAGE _____
 OIL & GAS ROYALTY OWNER _____ LEASE NO. _____ LEASE ACREAGE _____

PROPOSED WORK: DRILL CONVERT DRILL DEEPER REDRILL FRACTURE OR STIMULATE PLUS OFF OLD FORMATION PERFORATE NEW FORMATION OTHER PHYSICAL CHANGE IN WELL (SPECIFY) _____

PLUS AND ABANDON CLEAN OUT AND REPLUS _____
 TARGET FORMATION _____ ESTIMATED DEPTH _____
 WELL OPERATOR Pennzoil Company DESIGNATED AGENT James A. Crews
 ADDRESS P. O. Box 1588 ADDRESS P. O. Box 1588
Parkersburg, WV 26101 Parkersburg, WV 26101

MICHAEL KELLY - 2

No. 1

SOUTH PENN OIL COMPANY—COMPLETION

SERIAL NO. _____ FARM Michael Reilly. WELL NO. 2.
 ELEVATION _____ N. 3. S. _____ E. _____ W. 2.
 LEASE NO. _____ ACRES 253.
 WATERS OF Buffalo.
 DISTRICT Grant. COUNTY Wetzel. STATE W. Va.
 DRILLING COMMENCED 11/13-1899 COMPLETED 2/1-1900 DEPTH 3408'

SANDS	TOP	BOTTOM	ELEV. TOP	CASING	
				PACKERS AND DEPTH SET	DEPTH
Big Injun Sand.	1260'			10"	860'
Stray Sand	2633'	2785'		8 1/4"	1750'
Gordon Sand.	3349'	3388'		6-5/8"	2254'
	3388'	3402'		5-3/16"	2754'

INITIAL PROD. 10 Bbls. SAND Gordon. DEPTH 2146'
 GAS TEST _____ QUARTS 30. 3/25-1914--80qts.
 SHOT 2/3-1900

REMARKS Show of gas in Big Injun Sand at 2738'
Show of oil in Stray Sand at 2361'
 REPORTED BY Piney District. ABANDONED _____

Cracked

NOV 22 1900

47-103.1090

RECEIVED WV Division of Environmental Protection

NOV 19 1996

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: WVA Public Land Corp.

Operator Well No.: Michael Reilly No.2

LOCATION: Elevation: 1,499.00

Quadrangle: Center Point

District: Green

County: Wetzel

Latitude: 3,650 Feet south of

39 Deg 30 Min 0 Sec.

Longitude: 9,350 Feet west of

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: 9/9/94

Well work Commenced: 7/11/95

Well work Completed: 1/29/96

Verbal plugging

Permission granted on: Rotary Cable X Rig

Total Depth (feet) 3400'

Fresh water depths (ft) NA

Salt water depths (ft) NA

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

Coal Depths (ft): NA

Table with 4 columns: Casing & Tubing, Used in Drilling, Left in Well, Cement Fill Up Cu. Ft. Rows include 11", 8 1/4", 6 5/8", 4x4 1/2" Liner.

OPEN FLOW DATA

*Well was to be converted from existing producer to water injection well.

Conversion failed and well was plugged with verbal permission of Inspector.

Producing formation Gordon 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

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

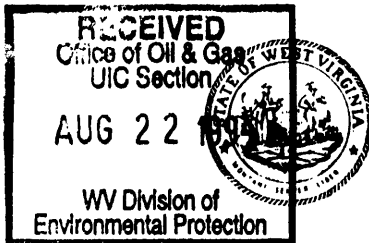
Treatment:

Conversion failed. No treatment was performed.

Well Log:

See original well record.

10/91



- 1) Date: August 19, _____, 1994
- 2) Operator's Well No. Michael Reilly #2
- 3) SIC Code _____
- 4) API Well NO. 47 - 103 - 1090 -LI
State County Permit
- 5) UIC Permit No. _____

Issued 09/09/94
Expires 09/09/96

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

19702

- WELL TYPE: Liquid injection / Gas injection (not storage) _____ / Waste disposal _____
- 7) LOCATION: Elevation: 1499' (S) Watershed: Piney Fork *286*
District: GRFFN County: WETZEL Quadrangle: Certerpoint
- 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 11) DRILLING CONTRACTOR:
Name Mike Underwood Name _____
Address Route 2, Box 135 Address _____
Salem, WV 26426
- 12) PROPOSED WELL WORK: Drill _____ / Drill deeper _____ / Redrill _____ / Stimulate _____
Plug off old formation _____ / Perforate new formation _____ / Convert /
Other physical change in well (specify) Sidetrack well approx. 30'
- 13) GEOLOGICAL TARGET FORMATION, Gordon *419* Depth 3388 feet(top) to 3402 feet(bottom)
- 14) Estimated depth of completed well, (or actual depth of existing well) 3440 ft.
- 15) Approximate water strata depths; Fresh, N/A feet; salt, N/A feet.
- 16) Approximate coal seam depths: 1260'
- 17) Is coal being mined in the area? Yes _____ / No /
- 18) Virgin reservoir pressure in target formation 1260 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 and improve oil recovery.
- 22) FILTERS (IF ANY): Cartridge filters and/or coal bed filters recovery.
- 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	See original well record								
Coal									Sizes
Intermediate									
Production	<u>3 1/2"</u>	<u>J-55</u>	<u>9.2</u>	<u>X</u>		<u>3440</u>	<u>3440</u>	<u>30 sks</u>	Depths set
Tubing	<u>1 1/2"</u>					<u>3000</u>	<u>3000</u>		<u>3000'</u>
Liners									Perforations:
									Top Bottom

- 25) APPLICANT'S OPERATING RIGHTS were acquired from UNION NATIONAL BANK OF CLARKSBURG
by deed _____ / lease / other contract _____ / dated OCTOBER 25, 1978, of record in the
WETZEL County Clerk's office in Lease Book 58A at page 185

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

OFFICE USE ONLY
DRILLING PERMIT

Permit number 47-103-1090-LI

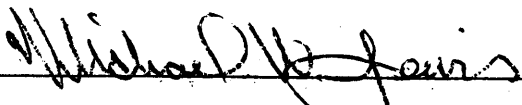
September 9th. 19 94
Date

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 9-9-96 unless well work is commenced prior to that date and prosecuted with due diligence.

Bond: <input checked="" type="checkbox"/>	Agency: <input checked="" type="checkbox"/>	Plat: 	Casing: 	File: 
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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

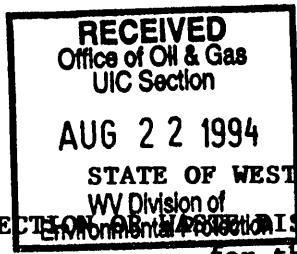
This part of Form IV-3(b) is to record the dates of certain occurrences and any follow-up inspections.

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

OTHER INSPECTIONS

Reason: _____
Reason: _____

- 1) Date August 19, 1994
Operator's _____
- 2) Well No. Michael Reilly #2
- 3) SIC Code _____
- 4) API Well No. 47 - 103 - 1090 - 5
State County Permit



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 WV Public Land Corporation
Address Bldg #3, Room 643
1900 Kanawha Blvd E.
 - (ii) Name Charleston, WV 25305
Address _____
Dep't of Natural Resources
 - (iii) Name 1304 Goose Run Road
Address Fairmont, WV 26554
Attn: Gary Foster
- 7 (i) COAL OPERATOR N/A
Address _____
- 7 (ii) COAL OWNER(S) WITH DECLARATION ON RECORD:
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