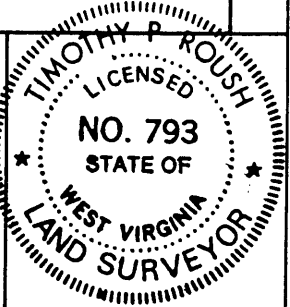


(H) DENOTES LOCATION OF WELL ON UNITED STATES TOPOGRAPHIC MAPS

FILE NO. 1774
 MAP NO. N47 N S E W
 SCALE 1" = 2000'
 MINIMUM DEGREE OF ACCURACY 1 in 200
 PROVEN SOURCE OF ELEVATION Pennzoil Company Records

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 October 14, 19 92
F. L. Hoge WELL No. 10

API WELL NO. 47-103-0986-2L

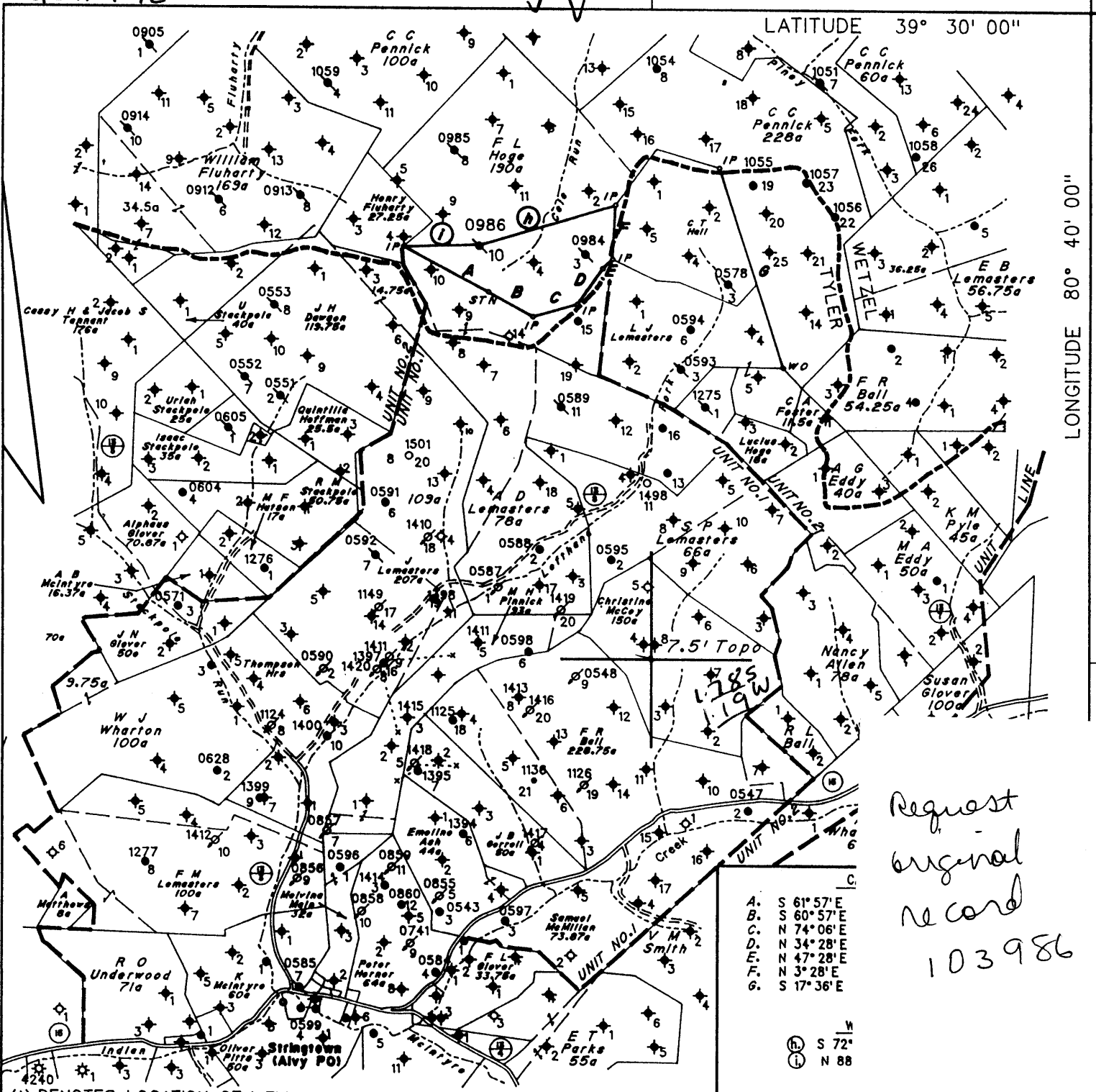
WELL TYPE: OIL GAS LIQUID INJECTION X WASTE DISPOSAL
 (IF "GAS") PRODUCTION STORAGE DEEP SHALLOW
 LOCATION: ELEVATION 1189' WATERSHED Cale Run
 DISTRICT Green COUNTY Wetzel
 QUADRANGLE Centerpoint

Frac

SURFACE OWNER W.V.A. Public Land Corporation ACREAGE 190 Ac.
 OIL & GAS ROYALTY OWNER Joan G. Hoge et al. LEASE ACREAGE 190 Ac.
 LEASE NO. 15548-50

PROPOSED WORK: DRILL CONVERT X 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 3127
 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



- A. S 61° 57' E
- B. S 60° 57' E
- C. N 74° 06' E
- D. N 34° 28' E
- E. N 47° 28' E
- F. N 3° 28' E
- G. S 17° 36' E

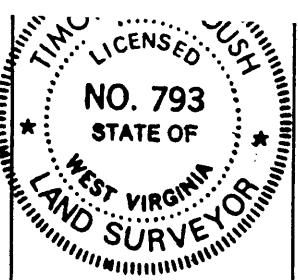
- W S 72°
- N 88

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

FILE NO. 1774
 MAP NO. N47 N S E W
 SCALE 1" = 2000'
 MINIMUM DEGREE OF ACCURACY 1 in 200
 PROVEN SOURCE OF ELEVATION Pennzoil Company Records

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 October 14, 19 92
F. L. Hoge WELL No. 10
 API WELL NO. 47-103-0986-2T

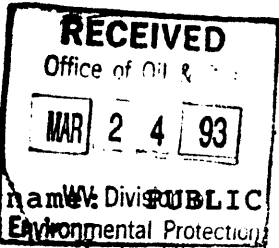
WELL TYPE: OIL GAS LIQUID INJECTION WASTE DISPOSAL
 (IF "GAS") PRODUCTION STORAGE DEEP SHALLOW
 LOCATION: ELEVATION 1189' WATERSHED Cale Run
 DISTRICT Green S COUNTY Wetzel
 QUADRANGLE Centerpoint N15 NW

SURFACE OWNER W.V.A. Public Land Corporation ACREAGE 190 Ac.
 OIL & GAS ROYALTY OWNER Joan G. Hoge et al. LEASE ACREAGE 190 Ac.
 LEASE NO. 15548-50

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 3127
 WELL OPERATOR Pennzoil Products Company DESIGNATED AGENT James A. Crews
 ADDRESS P. O. Box 5519 ADDRESS P. O. Box 5519
Vienna, W.Va. 26105 800 Jacksonburg Vienna, W.Va. 26105 Stringtown (095)

NOV 13 1992



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

Well Operator's Report of Well Work

Farm name: W. Division PUBLIC LANDS

Operator Well No.: F.L. HOGE #10

LOCATION: Elevation: 1189.00 Quadrangle: CENTER POINT

District: GREEN County: WETZEL
Latitude: 9300 Feet South of 39 Deg. 30Min. 0 Sec.
Longitude: 6250 Feet West of 80 Deg. 40 Min. 0 Sec.

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

Agent: JAMES A. CREWS

Inspector: RANDAL MICK
Permit Issued: 11/09/92
Well work Commenced: 12-3-92
Well work Completed: 1-23-93
Verbal Plugging _____
Permission granted on: _____
Rotary _____ Cable X _____ Rig _____
Total Depth (feet) 3127'
Fresh water depths (ft) _____

Salt water depths (ft) _____

Is coal being mined in area (Y/N)? _____
Coal Depths (ft): _____

Casing & Tubing	Used in Drilling	Left in Well	Cement Fill Up Cu. Ft.
Size SEE ORIGINAL WELL RECORD FOR ORIGINAL PIPE LEFT IN WELL BORE.			
* PIPE REMOVED:			
4" Liner	151'	- -	
3 1/2" Tbg.	2457'	- -	
2 3/8" Tbg	2465.57'	- -	
* NEW PIPE:			
3 1/2" Csg.	3038.75'	3038.75'	75 Sks.
1 1/2" Tbg.	3068.48	3068.48	3002.00

OPEN FLOW DATA

(Conversion to Liquid Injection)

Producing formation Gordon Pay zone depth (ft) 3070 - 3082
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

Timothy P. Roush

By: Supervisor - Surveying/Mapping

Date: 3-1-93

Reviewed TMG

Recorded _____

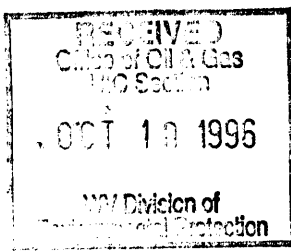
STIMULATION

PERFORATIONS: None
No Treatment

WELL LOG

See Original Well Record

REC
NY Division of
Environmental Conservation
Office of Oil & Gas



1) Date October 7, 1996
 2) Well No. F.L. Hoge No.10
 3) SIC Code _____
 4) API Well No. 47 - 108 - 0986 - F
 State County Permit
 5) UIC Code _____

Issued 10/30/96
Expires 10/30/98

22783

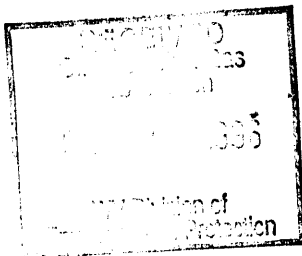
STATE OF WEST VIRGINIA
NOTICE OF LIQUID INJECTION OR WASTE DISPOSAL WELL WORK PERMIT APPLICATION
for the
DIVISION OF ENVIRONMENTAL PROTECTION, OFFICE OF OIL AND GAS

- WELL TYPE: Liquid Injection X Gas Injection _____ Waste Disposal _____
- LOCATION: Elevation 1189 Watershed _____ Cale Run _____
 District Green County Wetzel Quadrangle _____ Centerpoint _____
- WELL OPERATOR: Pennzoil Products Company 9) DESIGNATED AGENT: Philip S. Ondrusek
 P.O. Box 5519 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 X
 Plug Off Old Formation _____ Perforate New Formation _____ Convert _____
 Other Physical Change in Well (specify) _____
- 13) Geological target formation Gordon Depth 3070 Ft. (Top) to 3082 Ft. (Bottom)
- 14) Estimated depth of completed well (or actual depth of existing well) _____ 3127 Ft.
- 15) Approximate water strata depths: Fresh NA Ft. Salt NA Ft.
- 16) Approximate coal seam depths: 1000 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 2470
- 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	SPECIFICATIONS					FOOTAGE INTERVALS		CEMENT FILLUP OR SACKS	PACKERS
	Size	Grade	Weight	New	Used	For Drilling	Left in Well		
Conductor									Kinds
Fresh Water	5 3/16"					2430	2430	Existing Casing	Tension
Coal									Sizes
Intermediate									
Production	3 1/2"					3039	3039	Existing Casing	Depths Set
Tubing	1 1/2"					3068	3068	Existing Tubing	3002'
Liners									Perforations
									Top Bottom

- 25) APPLICANTS OPERATING RIGHTS were acquired from Stringtown Unit Royalty Owners
 by Deed _____ Lease _____ Other Contract X Dated _____ of record in the
Wetzel County Clerk's Office in _____ Book 69A at Page 123



1) Date October 7, 1996
2) Well No. F.L. Hoge No.10
3) SIC Code _____
4) API Well No. 47 - 103 - 0986 *F*
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 State of WV
Address Public Land Corp.
Building 3, Room 646
(ii) Name 1900 Kanawha Blvd. East
Address Charleston, WV 25305
(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 47-103-0986-F

October 30 19 96
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 10-30-98 unless well work is commenced prior to that date and prosecuted with due diligence.

Bond: ✓	Agent: ✓	Plat: MS	Casing: MS	Fee: ck#
------------	-------------	-------------	---------------	-------------

030144996

NOTE: Keep one copy of this permit posted at the drilling location.

CHIEF, OFFICE OF OIL AND GAS

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: _____

7/85
UIC Section
OC: 2792
WV Division of
Environmental Protection



- 1) Date: October 26, 19 92
- 2) Operator's Well No. F.L. HOGE NO. 10
- 3) SIC Code 103
- 4) API Well No. 47 State WV County Wetzel Permit 0986
- 5) UIC Permit No. UIC 2209501 AD

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

DEPARTMENT OF ENERGY, OIL AND GAS DIVISION

Issued 11/09/92
Expires 11/09/94

- 6) WELL TYPE: Liquid injection / Gas injection (not storage) / Waste disposal
- 7) LOCATION: Elevation: ~~XXXXXX~~ 1189' Watershed: Cale Run District: Green County: Wetzel Quadrangle: Centerpoint
- 8) WELL OPERATOR Pennzoil Products Company 37450 Address P.O. Box 5519 Vienna, WV 26105
- 9) DESIGNATED AGENT J.A. Crews Address 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
Name Randal Mick Address 111 Blackshere Drive Mannington, WV 26582
- 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 Depth 3070 feet(top) to 3082 feet(bottom)
- 14) Estimated depth of completed well, (or actual depth of existing well) 3127 ft.
- 15) Approximate water strata depths; Fresh, N/A feet; salt, N/A feet.
- 16) Approximate coal seam depths: 1000
- 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 2470
- 21) DETAILED IDENTIFICATION OF MATERIALS TO BE INJECTED, INCLUDING ADDITIVES: Fresh water, produced water, bactericides, and other chemicals as necessary 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: _____

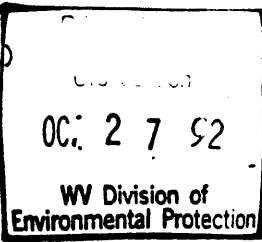
24) CASING AND TUBING PROGRAM

CASING OR TUBING TYPE	SPECIFICATIONS				FOOTAGE INTERVALS		CEMENT FILL-UP OR SACKS (Cubic feet)	PACKERS		
	Size	Grade	Weight per ft.	New	Used	For drilling		Left in well	Kind	Size
Conductor										
Fresh water	10					540				
Coal	8 1/4					1385				
Intermediate	6 5/8					1964				
Production	5 3/16					2430	2430			Depths set
Tubing	3 1/2					2457				
Liners	4 X 4 1/2						151			Perforations:
Tubing	3 1/2						*	*		Top Bottom
* SEE ATTACHED PROGNOSIS										

25) APPLICANT'S OPERATING RIGHTS were acquired from Stringtown Unit Royalty Owners by deed / lease / other contract dated _____, 19____, of record in the Wetzel County Clerk's office in Book 69A at page 123

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

14554



1) Date October 26, 1992
Operator's
2) Well No. F.L. HOGE NO. 10
3) SIC Code _____
4) API Well No. 47 - 103 - 0986 -
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 State of WV - Public Land Corp.
Address Bldg. #3 Room 643
1900 Kanawha Blvd., E.
 - (ii) Name Charleston, WV 25305
Address _____
 - (iii) Name _____
Address _____
- 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.

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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

Timothy P. Roush
Well Operator

By Timothy P. Roush
Its Supervisor - Surveying/Mapping
Telephone (304) 422-6565