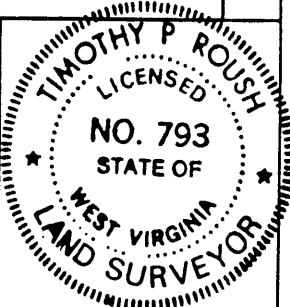


(H) DENOTES LOCATION OF WELL ON UNITED STATES TOPOGRAPHIC MAPS

FILE NO. _____
 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 August 21, 19 92
F. L. Hoge WELL No. 3
 API WELL NO. 47-103-0984-LI

WELL TYPE: OIL _____ GAS _____ LIQUID INJECTION X WASTE DISPOSAL _____
 (IF "GAS") PRODUCTION _____ STORAGE _____ DEEP _____ SHALLOW _____
 LOCATION: ELEVATION 1307' WATERSHED Cale Run
 DISTRICT Green COUNTY Wetzel
 QUADRANGLE Centerpoint
 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 3214'
 WELL OPERATOR Pennzoil Products Company DESIGNATED AGENT James A. Crews
 ADDRESS P. O. Box 5519 ADDRESS P. O. Box 5519
Vienna, W.Va. 26105 4670 ADDRESS Vienna, W.Va. 26105

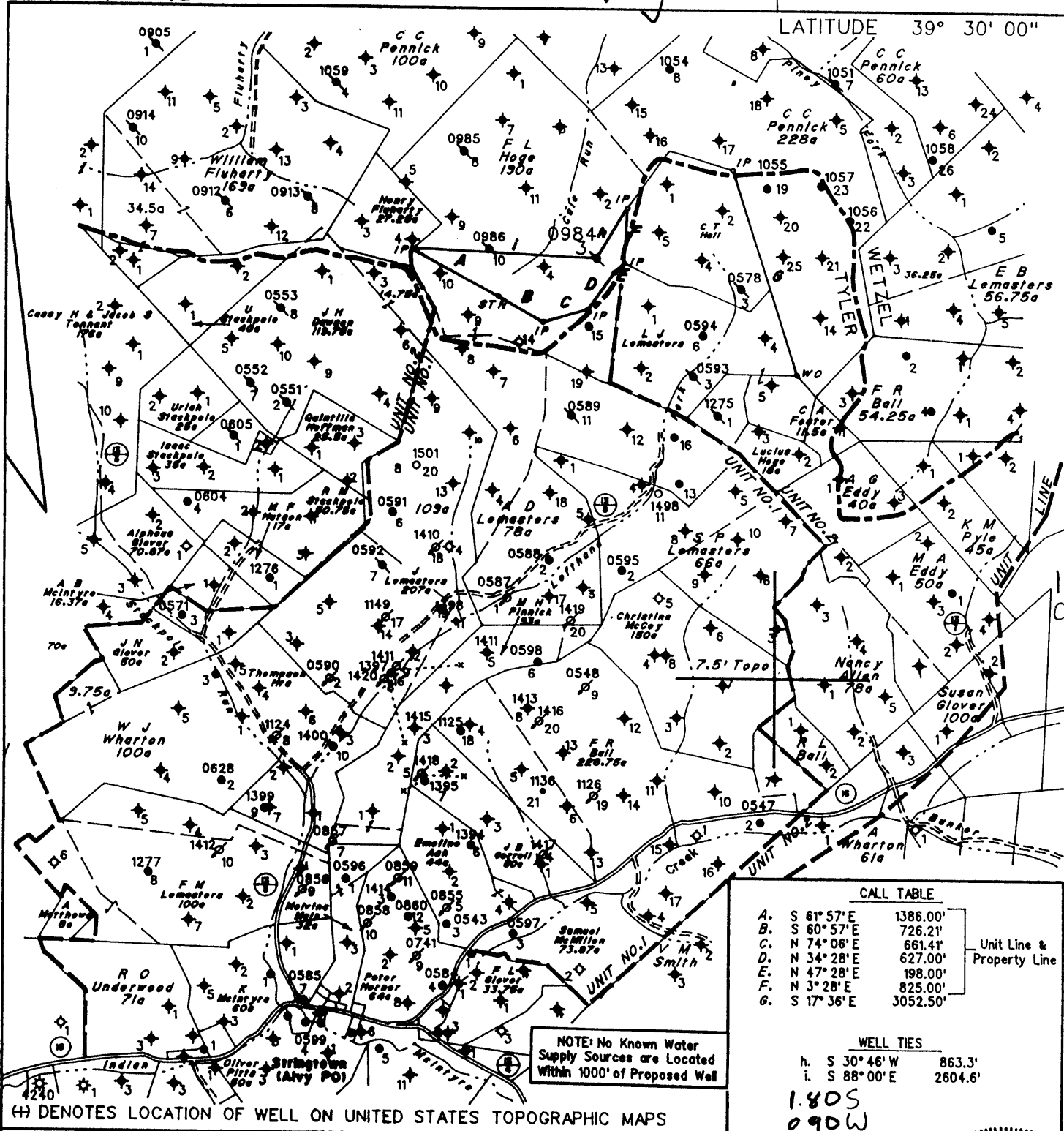
APR 11 1997

FORM IV-6

WET 0984-LI

LATITUDE 39° 30' 00"

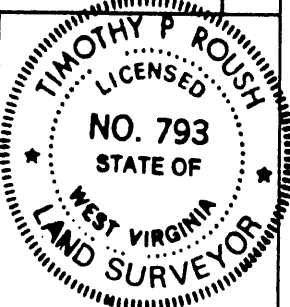
LONGITUDE 80° 40' 00"



FILE NO. _____
 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

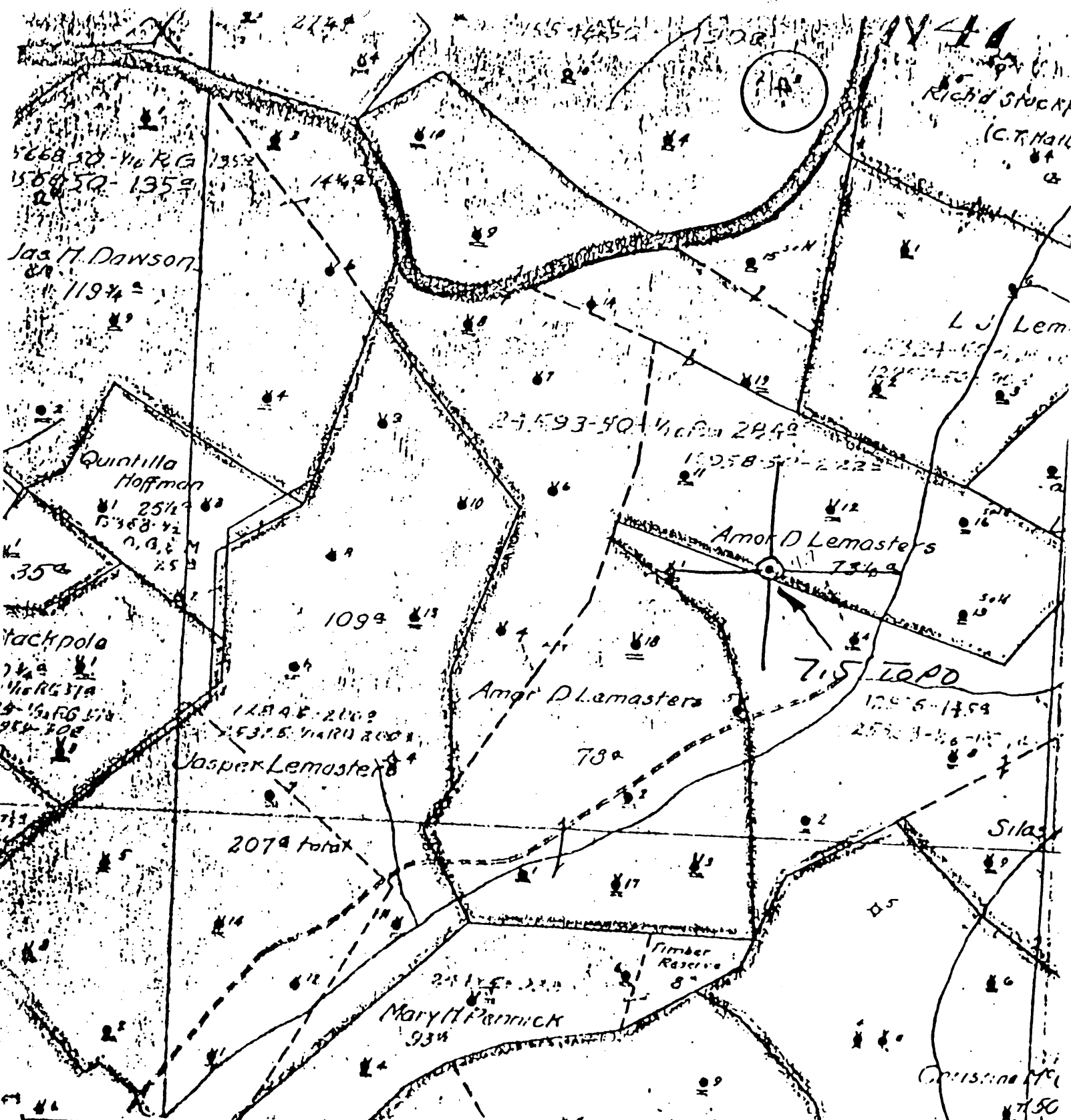


DATE August 21, 19 92
F. L. Hoge WELL No. 3
 API WELL NO. 47-103 - 0984-LI

WELL TYPE: OIL ___ GAS ___ LIQUID INJECTION X WASTE DISPOSAL ___
 (IF "GAS") PRODUCTION ___ STORAGE ___ DEEP ___ SHALLOW ___
 LOCATION: ELEVATION 1307' WATERSHED Cale Run
 DISTRICT Green 5 COUNTY Wetzel
 QUADRANGLE Centerpoint T15'NW
 SURFACE OWNER W.Va. Public Land Corporation ACREAGE 190 Ac.
 OIL & GAS ROYALTY OWNER Jean 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) OWWO
 PLUG AND ABANDON ___ CLEAN OUT AND REPLUG ___ 8-O Jacksonburg
 TARGET FORMATION Gordon ESTIMATED DEPTH 3214'
 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

FORM IV-6

SEP 28 1992 Stringtown (0915)



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

FORM IV-6
(8-78)
N47N2W9



STATE OF WEST VIRGINIA
DEPARTMENT OF MINES
OIL AND GAS DIVISION

DATE 1-23-1979
OPERATOR'S WELL NO. 3
API WELL NO. 47-103-0984
STATE COUNTY PERMIT

WELL TYPE: OIL GAS LIQUID INJECTION WASTE DISPOSAL
(IF "GAS", PRODUCTION STORAGE DEEP SHALLOW
LOCATION: ELEVATION NH WATER SHED CALE RUN, PINEY FORK
DISTRICT GREEN COUNTY WETZEL
QUADRANGLE CENTER POINT 7.5'

SURFACE OWNER _____
OIL & GAS ROYALTY OWNER _____ ACREAGE _____
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) _____

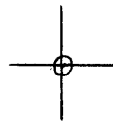
PLUS AND ABANDON CLEAN OUT AND REPLUS
TARGET FORMATION _____ ESTIMATED DEPTH _____
WELL OPERATOR Pennzoil Company DESIGNATED AGENT James A. Crews
ADDRESS P. O. Box 1588 ADDRESS P. O. Box 1588
Parkersburg, WV 26101 Parkersburg, WV 26101

F.L. HOGG-3

LATITUDE 39° 30' 00"

88° 40' 00"

LONGITUDE



7'5 OGIS topo location

7.5' loc 1.77S 15' loc _____
 0.87W (calc.) _____

Company _____

Farm _____

Quad CENTER POINT 7 1/2'

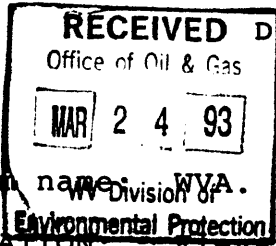
County WETZEL

District GREEN

WELL LOCATION MAP

File No. 103- 984

(095)



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 Operator Well No.: F.L. HOGE #3

LOCATION: Elevation: 1307.00 Quadrangle: CENTER POINT

District: GREEN County: WETZEL
Latitude: 9400 Feet South of 39 Deg. 30Min. 0 Sec.
Longitude 4700 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: 09/22/92
Well work Commenced: 10-20-92
Well work Completed: 12-1-92
Verbal Plugging _____
Permission granted on: _____
Rotary _____ Cable X _____ Rig
Total Depth (feet) 3214'
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	141 Ft.	--	
4" Liner	228 Ft.	--	
4" Liner	251 Ft.	--	
3 1/2" Tbg.	2524 Ft.	--	
* NEW PIPE:			
3 1/2" Csg.	3158.05	3158.05	75 Sks.
1 1/2" Tub	3196.30	3196.30	Tension Pkr. 3097.95

OPEN FLOW DATA (Conversion to Liquid Injection)

Producing formation Gordon Pay zone depth (ft) 3194 - 3207
 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
Timothy P. Roush

By: Supervisor - Surveying/Mapping

Date: 3-1-93

Reviewed TM6
Recorded _____

STIMULATION

PERFORATIONS: None
No Treatment

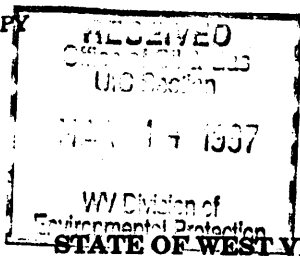
WELL LOG

See Original Well Record

Office of Oil & Gas
1
Permitting
and
REGISTRATION
1888
ELECTRONIC
FILED

PERMIT

COPY



1) Date March 7, 1997
 2) Well No. F.L. Hoge No.3
 3) SIC Code _____
 4) API Well No. 47 - 103 - 0984 - F
 State County Permit
 5) UIC Code _____

Issued 04/07/97
Expires 04/07/99

NOTICE OF LIQUID INJECTION OR WASTE DISPOSAL WELL WORK PERMIT APPLICATION

for the

DIVISION OF ENVIRONMENTAL PROTECTION, OFFICE OF OIL AND GAS

23393

WELL TYPE: Liquid Injection X Gas Injection _____ Waste Disposal _____

LOCATION: Elevation 1307' Watershed Cale Run
 District Green County Wetzel 786
 Centerpoint _____

WELL OPERATOR: Pennzoil Products Company #670
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 _____ Drill Deeper _____ Redrill _____ Stimulate X
 Plug Off Old Formation _____ Perforate New Formation _____ Convert _____
 Other Physical Change in Well (specify) _____

13) Geological target formation Gordon 419 Depth 3194 Ft. (Top) 3207 Ft. (Bottom)

14) Estimated depth of completed well (or actual depth of existing well) 3214 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.

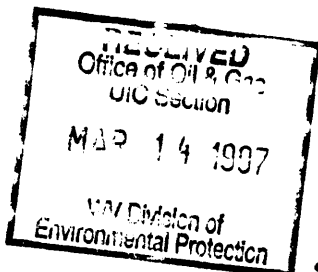
22) Filters (if any): Cartridge filters and/or coal bed filters

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									Tension
Coal									Sizes
Intermediate									
Production	3 1/2"					3158	3158	Existing Casing	Depths Set
Tubing	1 1/2"					3196	3196	Existing Tubing	
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 March 7, 1997
2) Well No. F.L. Hoge No.3
3) SIC Code _____
4) API Well No. 47 - 103 - 0984 *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 Dep't. of Natural Resources
Address 1304 Goose Run Road
Fairmont, WV 26554
Attn: Gary Foster

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 47-103-0984-F

Date April 7th. 19 97

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 4-7-99 unless well work is commenced prior to that date and prosecuted with due diligence.

Bond: ✓	Agent: ✓	Plat: AB	Casing: AB	Fee: CK#
------------	-------------	-------------	---------------	-------------

0301589433

Michael W. Jones
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: _____

REC'D
WV Division
Environmental Protection

AUG 25 92

Permitting
Office of Oil & Gas



- 1) Date: August 24, 19 92
- 2) Operator's Well No. F.L. HOGE #3
- 3) SIC Code
- 4) API Well NO. 47 - 103 - 0984 - L
State County Permit
- 5) UIC Permit No. UIC2R09501AP

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 8/22/92
Expires 9/22/94

- 6) WELL TYPE: Liquid injection / Gas injection (not storage) _____ / Waste disposal _____
- 7) LOCATION: Elevation: 1307' Watershed: Cale Run
District: Green County: Wetzel Quadrangle: Centerpoint
- 8) WELL OPERATOR Pennzoil Products Co. 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 Rt. #2, Box 135
Salem, WV 26426
- 11) DRILLING CONTRACTOR:
Name _____
Address _____
- 12) PROPOSED WELL WORK: Drill _____ / Drill deeper _____ / Redrill _____ / Stimulate _____
Plug off old formation _____ / Perforate new formation _____ / Convert
Other physical change in well (specify) See attached prognosis
- 13) GEOLOGICAL TARGET FORMATION, Gordon Depth 3194 feet(top) to 3207 feet(bottom)
- 14) Estimated depth of completed well, (or actual depth of existing well) 3214 ft.
- 15) Approximate water strata depths; Fresh, N/A feet; salt, N/A feet.
- 16) Approximate coal seam depths: 1132'
- 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 and/or
produced water from waterflood operations.
- 22) FILTERS (IF ANY): Cartridge Filter
- 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		
Conductor								Kinds Hookwall
Fresh water	10					1150	930	Existing
Coal	8 1/4					1650	1650	"
Intermediate	6 5/8					2060	2060	"
Production	5 3/16					2582	2582	"
Tubing	3 1/2					2524	2524	"
Liners #1	4						141	"
#2	4						228	"
#3	4						251	"

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.

REC'D
WV Division of
Environmental Protection

AUG 25 1992

Permitting
Office of Oil & Gas

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

- 1) Date August 24, 1992
- Operator's
- 2) Well No. F.L. HOGE NO. 3
- 3) SIC Code _____
- 4) API Well No. 47 - 103 - 0984

State County Permit

6) SURFACE OWNER(S) OF RECORD TO BE SERVED

7 (i) COAL OPERATOR N/A
Address _____

(i) Name WV Public Lands Corp.
Address Bldg. 3 Room 643
1900 Kanawha Blvd., East

7 (ii) COAL OWNER(S) WITH DECLARATION ON RECORD:
Name _____
Address _____

(ii) Name Charleston, WV 25305
Address _____

7 (iii) COAL LESSEE WITH DECLARATION ON RECORD:
Name _____
Address _____

(iii) 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 [Signature]
Timothy P. Roush
Its Supervisor - Surveying/Mapping

Telephone (304) 422-6565

WORKOVER PROGNOSIS

RECEIVED

WM Division of
Environmental Protection

AUG 25 02

Permitting
Office of Oil & Gas

F.L. HOGE #3
47-095-0984

T.D.: 3214'
5 3/16": 2582'
3 1/2": 2524'
4" X 4 1/2" Liners:
1st - 3052'-3193'
2nd - 2824'-3052'
3rd - 2573'-2824'

This well is to be worked over as a water injection well as part of the 1992 development of the Stringtown Waterflood.

1. Remove standard rig and other surface equipment.
2. MIRU spudder.
3. POH 3 1/2" casing.
4. Remove all liners, if possible. If unable to remove any liners, notify U.I.C. section.
5. CO to TD.
6. Run GR-Caliper log.
7. Run new 3 1/2" casing - Casing point and cementing method will be determined by log.
8. Cement 3 1/2" casing with 50 sks. 50/50 Posmix with 2% CaCl₂ and 1/8# FloCele/sk.
9. Pressure test casing to 2000 psi for 20 minutes.
10. Drill out plug.
11. CO to TD.
12. Upon U.I.C. approval, place on water injection.

Curt Lucas
August 10, 1992