

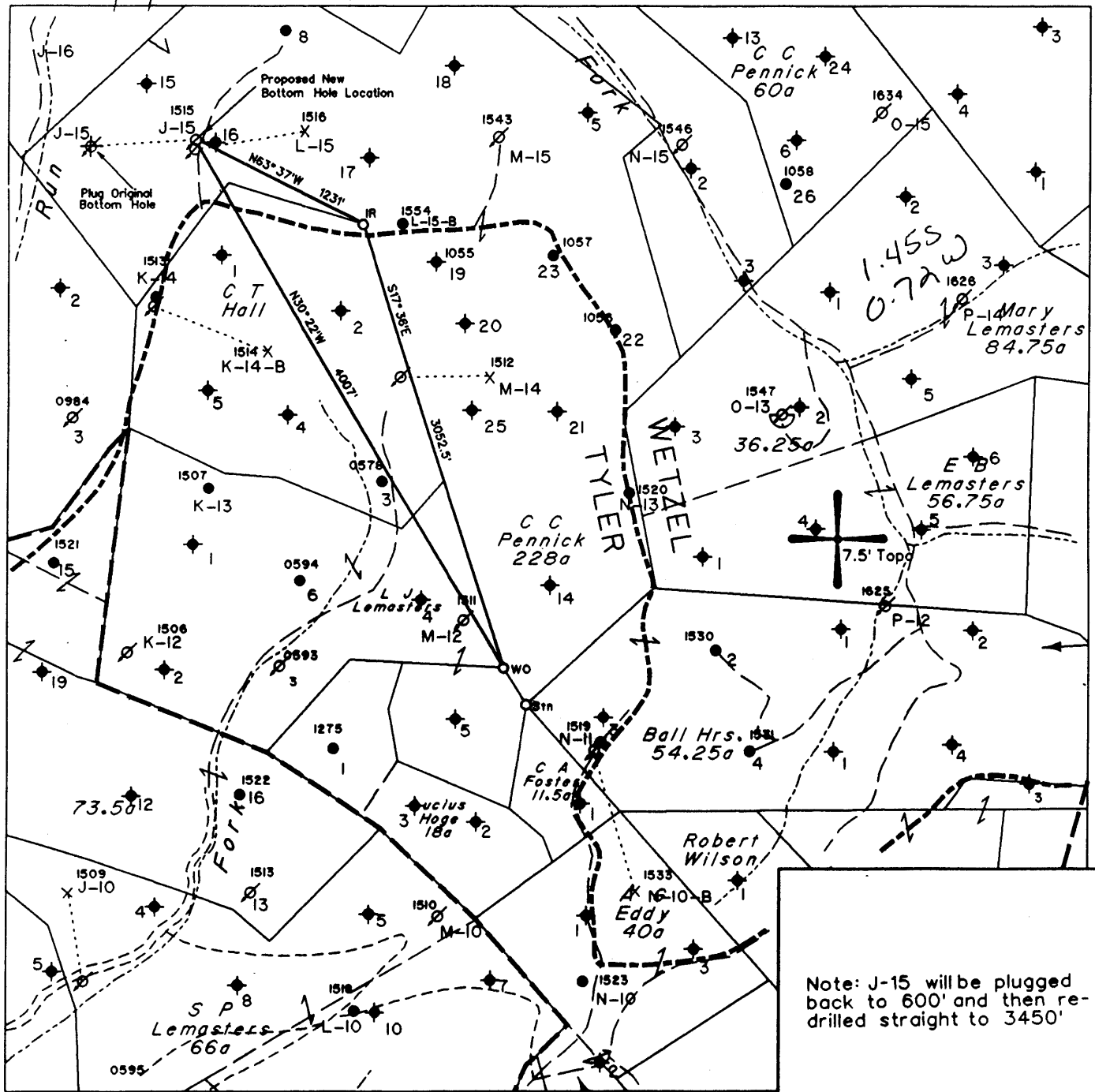
3,900'

LATITUDE 39° 30' 00"

LONGITUDE 80° 40' 00"

7,650'

5/13/97



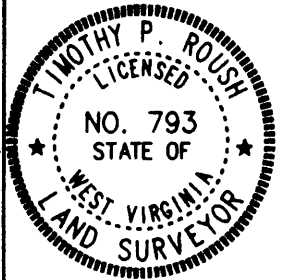
Note: J-15 will be plugged back to 600' and then re-drilled straight to 3450'

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

FILE NO. 573
 MAP NO. N58 N 3 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*
 TIMOTHY P. ROUSH PS 793



STATE OF WEST VIRGINIA
 DIVISION OF ENERGY
 OIL AND GAS SECTION



DATE May 1, 19 97
 FARM C.C. Pennick NO. J-15
 API WELL NO. 47-103-1515-w

WELL TYPE: OIL GAS LIQUID INJECTION WASTE DISPOSAL MONITORING
 (IF "GAS") PRODUCTION STORAGE DEEP SHALLOW
 LOCATION: ELEVATION 1384' WATERSHED Piney Fork
 DISTRICT Green COUNTY Wetzel
 QUADRANGLE Centerpoint

SURFACE OWNER State of West Virginia ACREAGE 228 Ac.
 OIL & GAS ROYALTY OWNER Pennzoil Products Co. et.al. LEASE ACREAGE 228 Ac.
 LEASE NO. 15688-50

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

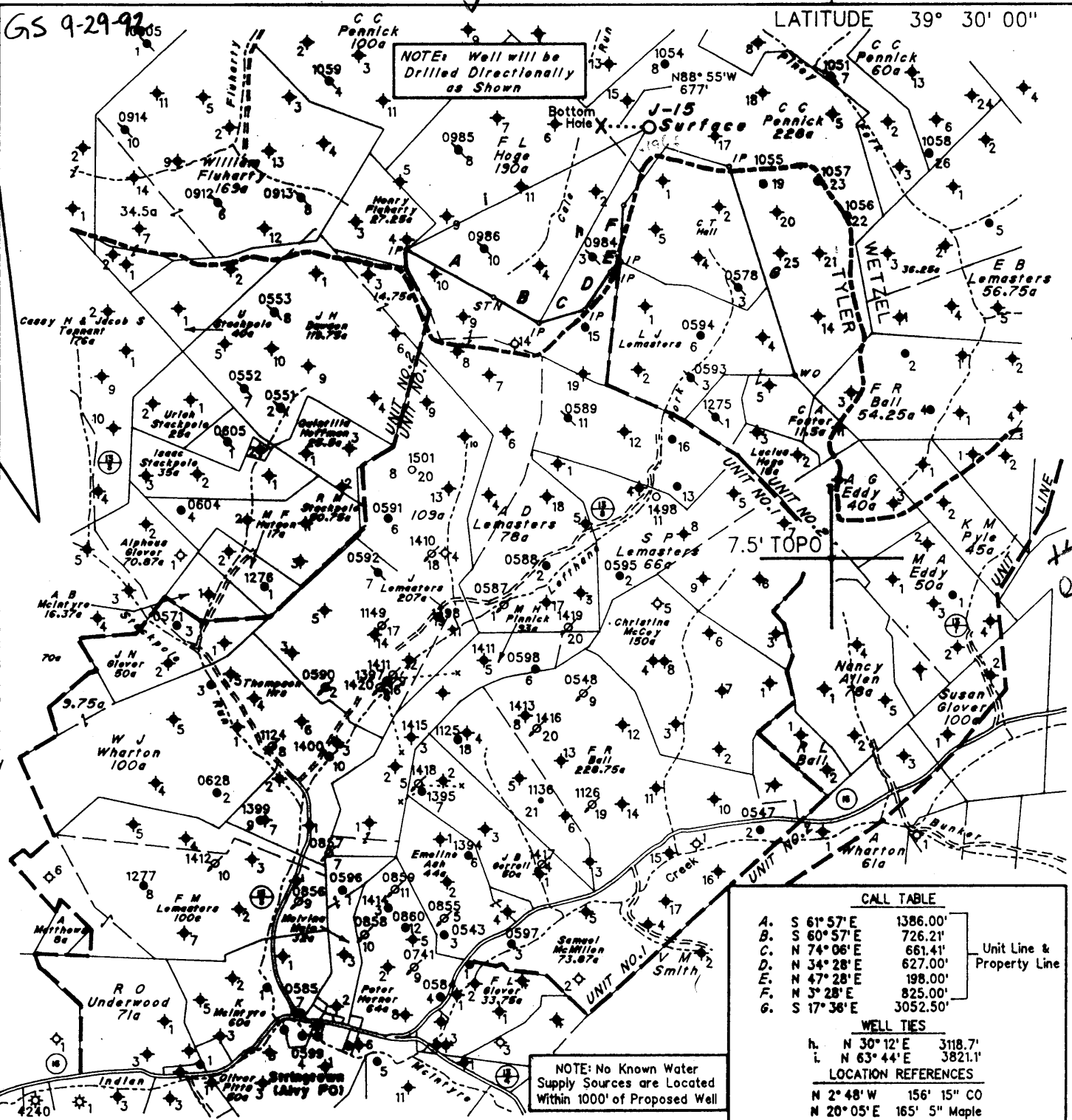
PLUG AND ABANDON CLEAN OUT AND REPLUG
 TARGET FORMATION Gordon ESTIMATED DEPTH 3450'
 WELL OPERATOR Pennzoil Products Company DESIGNATED AGENT Philip S. Ondrusek
 ADDRESS P. O. Box 5519 ADDRESS P. O. Box 5519
Vienna, W.Va. 26105 Vienna, W.Va. 26105

MAY 23 1997

GS 9-29-92

LATITUDE 39° 30' 00"

LONGITUDE 80° 40' 00"



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		
h.	N 30° 12' E	3118.7'
i.	N 63° 44' E	3821.1'

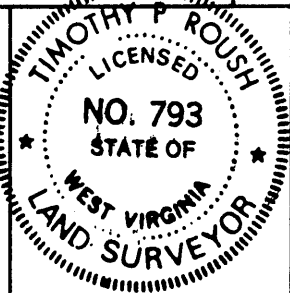
LOCATION REFERENCES		
M	2° 48' W	156' 15\" CO
N	20° 05' E	165' 5\" Maple

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

FILE NO. 573
 MAP NO. N57 N 3 S E W 4
 SCALE 1" = 2000'
 MINIMUM DEGREE OF ACCURACY 1 in 200
 PROVEN SOURCE OF ELEVATION F.L. Hoge No.3
(47-095-0984) = 1307'

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 September 27, 19 92
C.C. Pennick WELL J-15
 API WELL NO. 47-103-1515-L1
Frac.

WELL TYPE: OIL GAS LIQUID INJECTION WASTE DISPOSAL
 (IF "GAS") PRODUCTION STORAGE DEEP SHALLOW
 LOCATION: ELEVATION 1384' WATERSHED Piney Fork
 DISTRICT Green COUNTY Wetzel
 QUADRANGLE Centerpoint J15 NW
 SURFACE OWNER State of West Virginia ACREAGE 228 AC.
 OIL & GAS ROYALTY OWNER Pennzoil Products Co. et.al. LEASE ACREAGE 5675 Ac.
 LEASE NO. 67696-00
 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 3369' TVD
 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

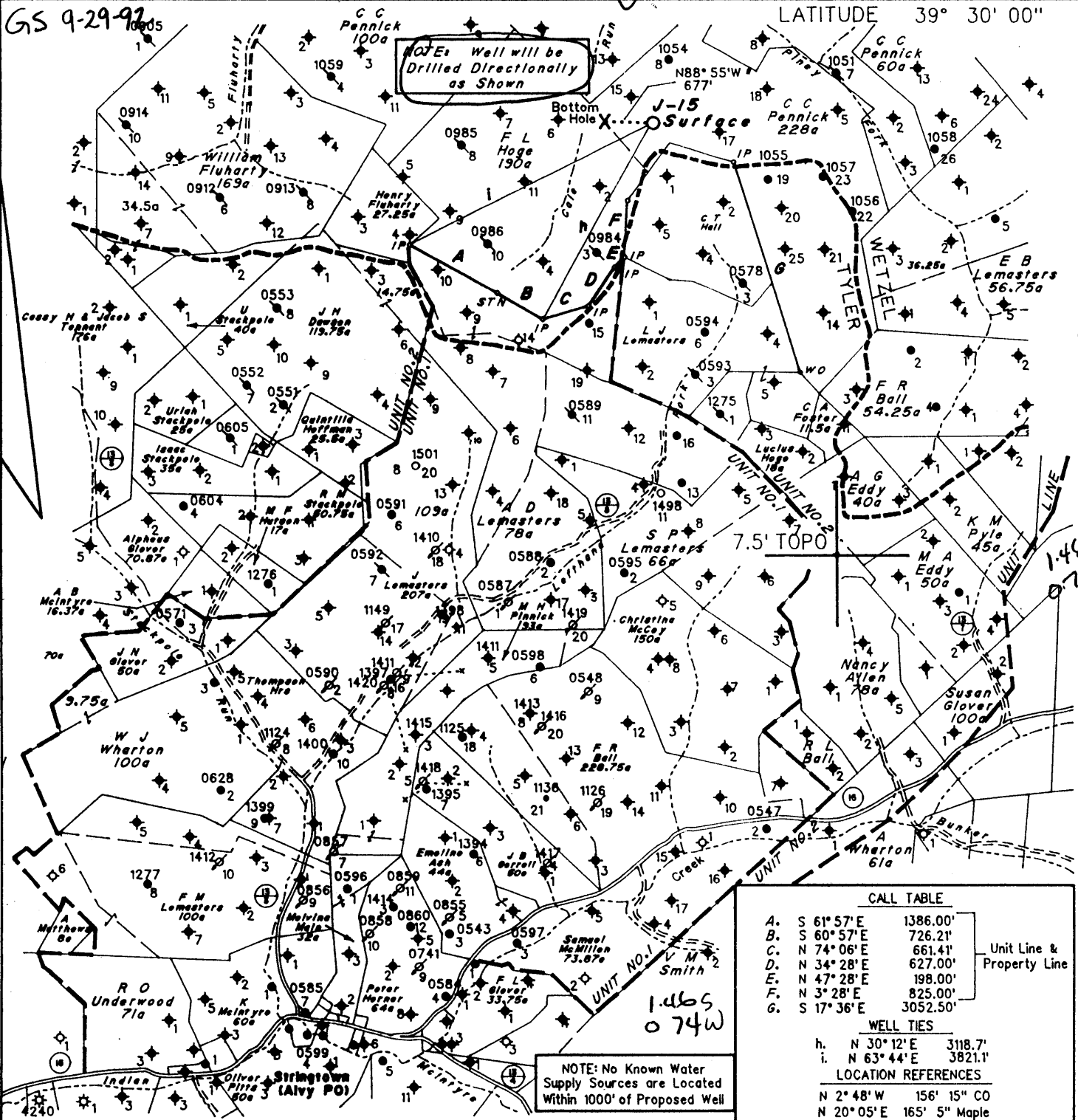
WEST 1515 L1

GS 9-29-92

LATITUDE 39° 30' 00"

LONGITUDE 80° 40' 00"

7650'



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

FILE NO. 573

MAP NO. N57 N 3 S E W 4

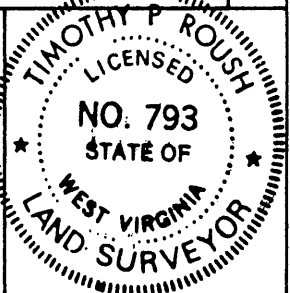
SCALE 1" = 2000'

MINIMUM DEGREE OF ACCURACY 1 in 200

PROVEN SOURCE OF ELEVATION F.L. Hoge No. 3
(47-095-0984) = 1307'

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 September 27, 19 92
C.C. Pennick WELL J-15

API WELL NO. 47-103-1515-L1

WELL TYPE: OIL ___ GAS ___ LIQUID INJECTION X WASTE DISPOSAL ___
(IF "GAS") PRODUCTION ___ STORAGE ___ DEEP ___ SHALLOW ___

LOCATION: ELEVATION 1384' WATERSHED Piney Fork Directional well

DISTRICT Green 5 COUNTY Wetzel

QUADRANGLE Centerpoint dlg NW

SURFACE OWNER State of West Virginia ACREAGE 228 AC.

OIL & GAS ROYALTY OWNER Pennzoil Products Co. et al. LEASE ACREAGE 5675 Ac.

LEASE NO. 67696-00

PROPOSED WORK: DRILL X 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 3369' TVD 8-0 Sacksonburg-Stringtown

WELL OPERATOR Pennzoil Products Company DESIGNATED AGENT James A. Crews

ADDRESS P. O. Box 5519 ADDRESS P. O. Box 5519
Vienna W. Va. 26105 673 Vienna W. Va. 26105 (095)

WR-35

20-May-97
API # 47 -103- 1515

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

Well Operator's Report of Well Work

RECEIVED
Office of Oil and Gas
MAR 19 1998
WV Division of
Environmental Protection

Farm name: WVA Public Land Co. Operator Well No.: C.C. Pennick #J-15

LOCATION: Elevation: 1,384' Quadrangle: Center Point
District: Green County: Wetzel
Latitude: 7,650 Feet south of 39 Deg 30 Min 30 Sec.
Longitude: 3,900 Feet west of 80 Deg 40 Min 0 Sec.

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

Agent: PHILIP S. ONDRUSEK

Inspector: Randal Mick

Permit Issued: 5/20/97

Well work Commenced: 5/23/97

Well work Completed: 9/8/97

Verbal plugging permission granted on:

Rotary Cable Rig

Total Depth (feet) 3443'

Fresh water depths (ft) NA

Salt water depths (ft) NA

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

Coal Depths (ft): 952

Casing & Tubing Size	Used in Drilling	Left in Well	Cement Fill Up Cu. Ft.
4-1/2"	1827'	1827'	260 Sacks

OPEN FLOW DATA

Producing formation Gordon Pay zone depth (ft) 3,232
 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: 3/16/98

MAR 13 1998

WET 1515

Treatment :

Perforated Gordon sand with 32 holes from 3288'-3301' K.B. Fractured with 300 gals 15% HCL and 215 bbls gelled water and 11,000 lbs. 20/40 sand

Well Log :

All depth are relative to K.B.

0	952 Sand and Shale
952	958 Coal
958	1100 Shale
1100	1235 sand
1235	1590 Shale
1590	1619 sand
1619	2336 Shale
2336	2391 sand
2391	2510 Shale
2510	2639 Big Lime
2639	2790 Big Injun
2790	3226 Shale
3226	3232 Gordon Stray
3232	3242 Gordon
3242	3443 Shale

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

Well Operator's Report of Well Work

Farm name: WVA. PUBLIC LAND CORP. Operator Well No.: C.C.PENNICK#J15

LOCATION: Elevation: 1,384.00 Quadrangle: CENTER POINT

District: GREEN County: WETZEL
Latitude: 7650 Feet South of 39 Deg. 30Min. 0 Sec.
Longitude 3900 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: 02/16/95
Well work Commenced: 03/20/95
Well work Completed: 03/20/95
Verbal Plugging
Permission granted on: -
Rotary Cable X Rig
Total Depth (feet) 3528
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	Used in Drilling	Left in Well	Cement Fill Up Cu. Ft.
Size			
8-5/8"	660.75'	660.75'	Existing Casing
4-1/2"	3497.5'	3497.5'	Existing Casing

OPEN FLOW DATA

*Water injection well

Producing formation Gordon Pay zone depth (ft) 3378'-3386'
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

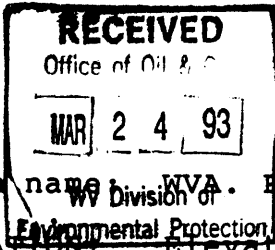
Second producing formation Pay zone depth (ft)
Gas: Initial open flow MCF/d Oil: Initial open flow Bbl/d
Final open flow MCF/d Final open flow Bbl/d
Time of open flow between initial and final tests Hours
Static rock Pressure psig (surface pressure) after Hours

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: _____

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



Well Operator's Report of Well Work

Farm name: WVA. PUBLIC LAND CORP. Operator Well No.: C.C.PENNICK-J15

LOCATION: Elevation: 1384.00 Quadrangle: CENTER POINT

District: GREEN County: WETZEL
Latitude: 7650 Feet South of 39 Deg. 30Min. 0 Sec.
Longitude: 3900 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: 10/05/92
Well work Commenced: 11/1/92
Well work Completed: 12/17/92

Verbal Plugging
Permission granted on: _____
Rotary Cable _____ Rig _____
Total Depth (feet) 3528'
Fresh water depths (ft) N/A

Salt water depths (ft) N/A

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

Casing & Tubing Size	Used in Drilling	Left in Well	Cement Fill Up Cu. Ft.
8 5/8	660.75'	660.75'	To Surface 175 Sk.
4 1/2	3497.5	3497.5	300 Sk.

OPEN FLOW DATA Water Injection Well

Producing formation Gordon Pay zone depth (ft) 3378' - 3380'
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: 3-3-93

Reviewed TM6
Recorded _____

TREATMENT

PERFORATED: Gordon with 16 Holes 3378' - 3386'
Treated with 500 Gal. 15% HCL Dine Acid
290 Bbls. 20# Gel Water and 20,000# 20/40 Sand

WELL LOG

(Measured Depths)
(Directionally Drilled)

Sand & Shale	0 - 520
Sand	520 - 560
Sand & Shale	560 - 835
Sand	835 - 850
Sand & Shale	850 - 1030
Sand	1030 - 1095
Sand & Shale	1095 - 1330
Sand	1330 - 1365
Sand & Shale	1365 - 1415
Sand	1415 - 1450
Shale	1450 - 1755
Sand	1755 - 1920
Sand & Shale	1920 - 1960
Sand	1960 - 1985
Sand & Shale	1985 - 2285
Sand	2285 - 2315
Sand & Shale	2315 - 2480
Sand	2480 - 2495
Shale	2495 - 2525
Sand	2525 - 2650
Sand	2650 - 2765
Shale	2765 - 3350
Gordon	3350 - 3410
T.D.	3528

RECEIVED
NY Dept of
Environmental Protection

MAR 18 93

Permitting
Office of Oil & Gas

DP 411
OFT-411



- 1) Date: September 28, 19 92
- 2) Operator's Well No. C.C. PENNICK J-15
- 3) SIC Code _____
- 4) API Well NO. 47 - 103 - 1515-41
State County Permit
- 5) UIC Permit No. UIC2R09501AP

*Issued 10/5/92
Expires 10/5/94*

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

Office of Oil & Gas
UIC Section

SEPT 29 92

 WV Division of
Environmental Protection

- 6) WELL TYPE: Liquid injection / Gas injection (not storage) _____ / Waste disposal _____
- 7) LOCATION: Elevation: 1384' / Watershed: Piney Fork 286
District: Green / County: Wetzel / Quadrangle: Centerpoint
- 8) WELL OPERATOR Pennzoil Products 37450 / 9) DESIGNATED AGENT J.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
Name Randal Mick
Address Rt. #3, Box 248
Weston, WV 26452
- 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) NOTE: WELL WILL BE DIRECTIONALLY DRILLED
- 13) GEOLOGICAL TARGET FORMATION, Gordon 41a / Depth 3269' feet(top) to 3284' feet(bottom)
- 14) Estimated depth of completed well, (or actual depth of existing well) 3369 TVD ft. / TVD / TVD
- 15) Approximate water strata depths; Fresh, 584 feet; salt, >584 feet.
- 16) Approximate coal seam depths: 1184'
- 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 3300 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		
Conductor									Kinds
Fresh water	8 5/8	L.S.	20	X		640	640	To Surface	
Coal									Sizes
Intermediate									
Production	4 1/2	J-55	10.5	X		3470 M.D.	3470 M.D.	Cement over Salt Sand	Depths set
Tubing									
Liners									Perforations:
									Top Bottom:

- 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

OFFICE USE ONLY
DRILLING PERMIT

Permit number 47-103-1515-LI

October 5th. 92
Date 19

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 10-5-94 unless well work is commenced prior to that date and prosecuted with due diligence.

Bond:	Agent:	Plat:	Casing	Fee
✓	✓	AS	AS	CK # 15007

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

Director, Oil and Gas Division

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 September 28, 1992
Operator's
2) Well No. C.C. PENNICK J-15
3) SIC Code _____
4) API Well No. 47 - 103 - 1515-1
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

UIC Section
SEPT 29 92
WV Division of
Environmental Protection

- 6) SURFACE OWNER(S) OF RECORD TO BE SERVED
 - (i) Name 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 WV-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 WV-6; and
- (3) The Construction and Reclamation Plan on Form WV-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 WV-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 WV-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*
Timothy P. Roush
Supervisor - Surveying/Mapping
Telephone (304) 422-6565

1) Date May 2, 1997
2) Well No. C.C. Pennick No. J-15
3) SIC Code _____
4) API Well No. 47 - 103 - 1515
State County Permit
5) UIC Code _____

*Issued 05/20/97
Expires 05/20/99*

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

23657

WELL TYPE: Liquid Injection X Gas Injection _____ Waste Disposal _____
LOCATION: Elevation 1384 Watershed Piney Fork
District Green County Wetzel Quadrangle _____ Centerpoint 286

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

L & 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 X Stimulate X
Plug Off Old Formation X Perforate New Formation _____ Convert _____
(See Attached Prognosis.) Other Physical Change in Well (specify) Plug Back to 600' and redrill straight hole.

13) Geological target formation Gordon Depth 3378 MD Ft. (Top) to 3386 MD Ft. (Bottom)

14) Estimated depth of completed well (or actual depth of existing well) 3450 TVD Ft.

15) Approximate water strata depths: Fresh NA Ft. Salt NA Ft.

16) Approximate coal seam depths: NA 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:
other chemicals as needed to maintain water quality and improve oil recovery. Fresh water, produced water, bactericides and

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

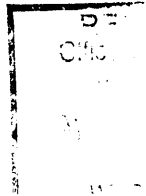
23) Specifications for cathodic protection and other corrosion control: _____

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	8 5/8"	L.S.	20#	X		661	661	Existing Casing		
Coal										Sizes
Intermediate										
Production	4 1/2"	J-55	10.5#	X	X	3450	3450	Cement Over		Depths Set
Tubing								Salt Sand		
Liners										Perforations
										Top Bottom

25) APPLICANTS OPERATING RIGHTS were acquired from MH & CC Pennick
by Deed _____ Lease X Other Contract _____ Dated May 24, 1895 of record in the
Wetzel County Clerk's Office in _____ Lease Book 47 at Page 250

*Is the plugging of #16 well near Pennick J-15 adequate?
Address this issue prior to operating well.
MS.*



1) Date	<u>May 2, 1997</u>		
2) Well No.	<u>C.C. Pennick No.J-15</u>		
3) SIC Code	_____		
4) API Well No.	<u>47</u>	<u>103</u>	<u>1515 - w</u>
	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 W.Va. Public Land Corporation
Address Building No.3, Room 643
1900 Knawha Blvd. East

(ii) Name Charleston, WV 25305
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 _____

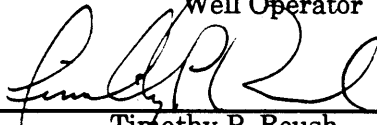
THE REASON YOU RECEIVED THESE DOCUMENTS IS THAT YOU HAVE RIGHTS REGARDING THE APPLICATION WHICH ARE SUMMARIZED IN THE "INSTRUCTIONS" ON THE REVERSE SIDE OF THE COPY OF THE APPLICATION (FORM WW-3(B)) DESIGNATED FOR YOU. HOWEVER, YOU ARE NOT REQUIRED TO TAKE ANY ACTION AT ALL.

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 
Timothy P. Roush
Its Supervisor, Surveying/Mapping

Telephone (304) 422-6565