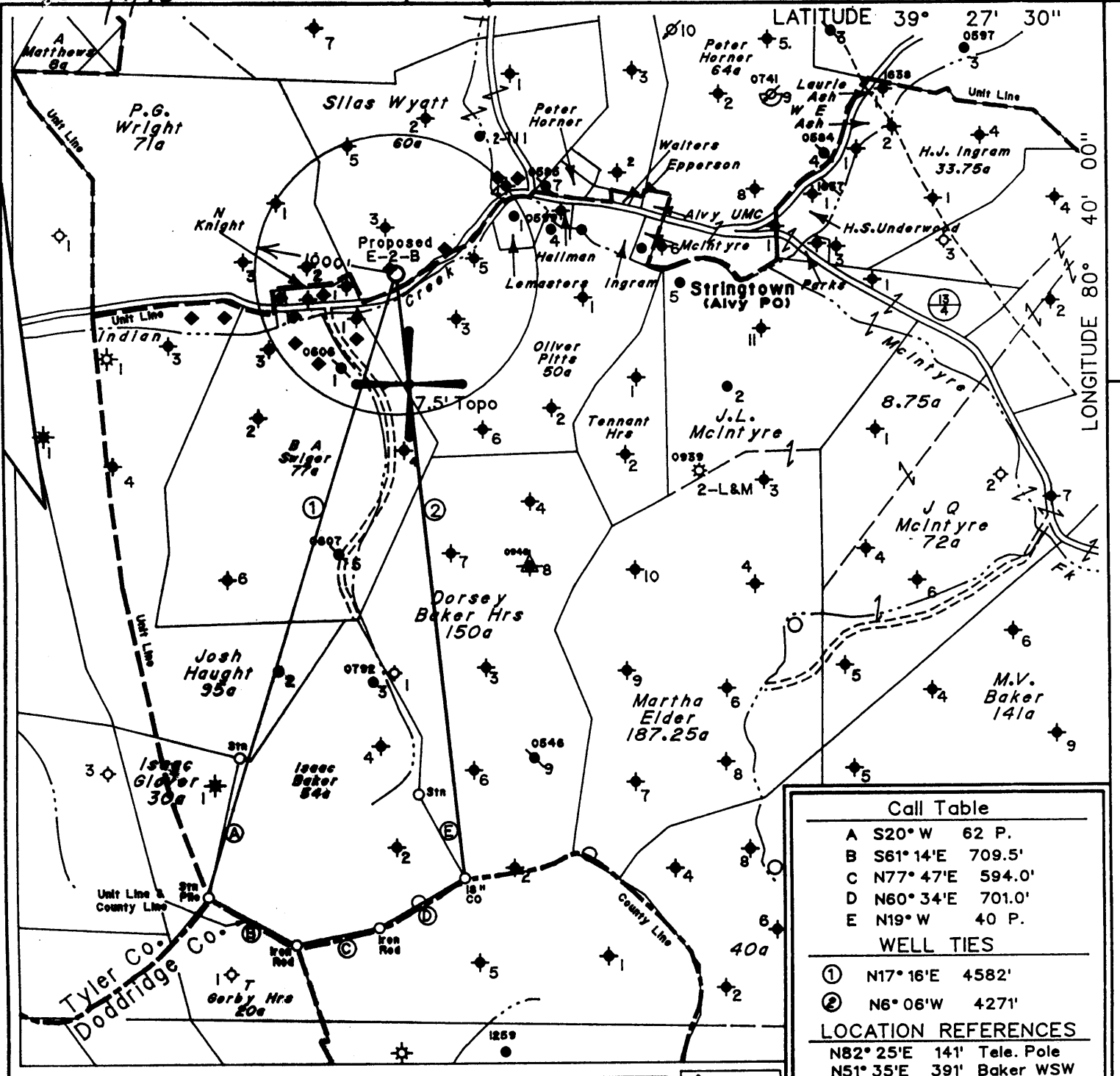


GS 9/9/96

9,850'



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	N17° 16' E 4582'
②	N6° 06' W 4271'
LOCATION REFERENCES	
N82° 25' E	141' Tele. Pole
N51° 35' E	391' Baker WS
N25° W	5' S. Wyatt E-2 (47-095-1650)

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

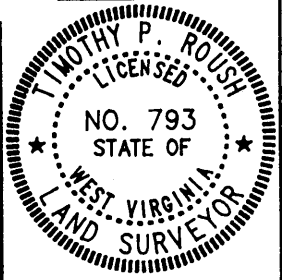
◆ Denotes a Water Supply Source

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

FILE NO. 1818
 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 August 20, 19 96
 FARM Silas Wyatt NO. E-2-B
 API WELL NO. 47-095-01663-5
095 1650 drilled as 1663

WELL TYPE: OIL GAS LIQUID INJECTION WASTE DISPOSAL
 (IF "GAS") PRODUCTION STORAGE DEEP SHALLOW
 LOCATION: ELEVATION 800' WATERSHED Indian Creek
 DISTRICT McElroy COUNTY Tyler
 QUADRANGLE Centerpoint 7.5'
 SURFACE OWNER Pennzoil Products Co. et al. ACREAGE 3.2 Ac.
 OIL & GAS ROYALTY OWNER Pennzoil Products Co. et al. LEASE ACREAGE 60 Ac.
 LEASE NO. 47495-00
 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 2800'
 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

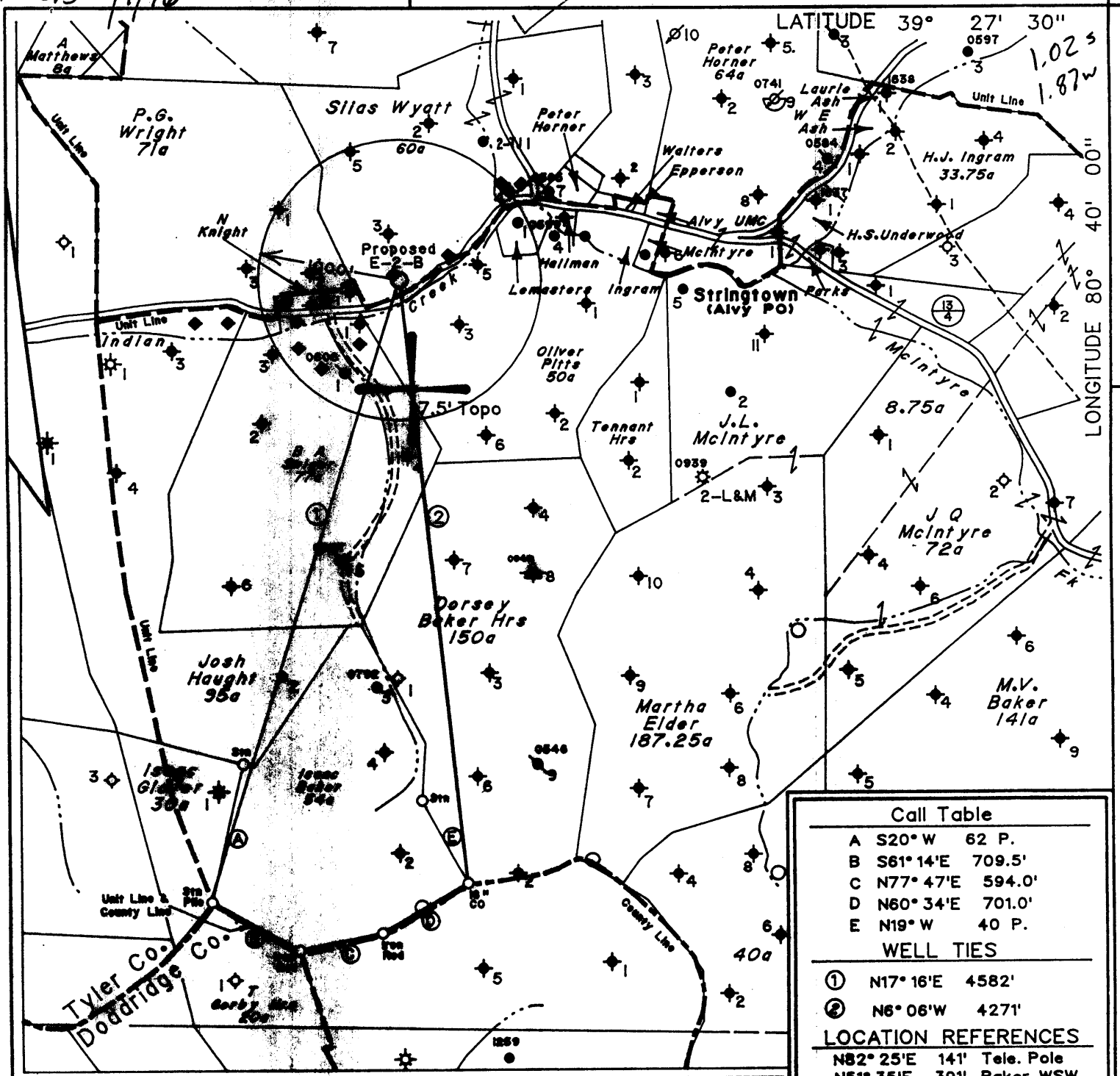
OCT 25 1996

FORM IV-6

1663-5

GS 9/9/96

9,850'



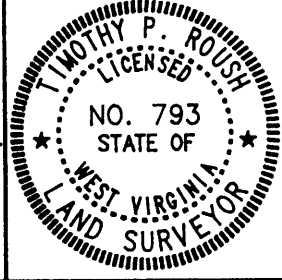
Call Table	
A	S20° W 62 P.
B	S61° 14' E 709.5'
C	N77° 47' E 594.0'
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WELL TIES	
①	N17° 16' E 4582'
②	N6° 06' W 4271'
LOCATION REFERENCES	
N82° 25' E	141' Tele. Pole
N51° 35' E	391' Baker WSW
N25° W	5' S. Wyatt E-2 (47-095-1650)

Note: All Known Water Supply Sources Located Within 1000' Of Proposed Well Are Shown
 (H) DENOTES LOCATION OF WELL ON UNITED STATES TOPOGRAPHIC MAPS
 ♦ Denotes a Water Supply Source

FILE NO. 1818
 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 August 20, 19 96
 FARM Silas Wyatt NO. E-2-B
 API WELL NO. 47-095-01663-5

WELL TYPE: OIL GAS LIQUID INJECTION WASTE DISPOSAL
 (IF "GAS") PRODUCTION STORAGE DEEP SHALLOW
 LOCATION: ELEVATION 800' WATERSHED Indian Creek
 DISTRICT McElroy COUNTY Tyler
 QUADRANGLE Centerpoint 7.5'

SURFACE OWNER Pennzoil Products Co. et al. ACREAGE 3.2 Ac.
 OIL & GAS ROYALTY OWNER Pennzoil Products Co. et al. LEASE ACREAGE 60 Ac.
 LEASE NO. 47495-00

PROPOSED WORK: DRILL CONVERT DRILL DEEPER REDRILL FRACTURE OR STIMULATE PLUG OFF OLD FORMATION PERFORATE NEW FORMATION OTHER PHYSICAL CHANGE IN WELL (SPECIFY) 8-0 95

PLUG AND ABANDON CLEAN OUT AND REPLUG
 TARGET FORMATION Gordon ESTIMATED DEPTH 2800'
 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

SEP 13 1996

FORM IV-6

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

9-Sep-96
 API # 47 -095- 1663
~~430-5~~
 1663

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

Well Operator's Report of Well Work

Farm name: Pennzoil Products Company
 LOCATION: Elevation: 800.00'
 District: McElroy
 Latitude: 5,400 Feet south of
 Longitude: 9,850' Feet west of
 Company: PENNZOIL PRODUCTS COMPANY
 P.O. BOX 5519
 VIENNA, WV 26105-5519
 Agent: PHILIP S. ONDRUSEK
 Inspector: Mike Underwood
 Permit Issued: 9/10/96
 Well work Commenced: 8/8/96
 Well work Completed: 9/27/96
 Verbal plugging permission granted on:
 Rotary X Cable _____ Rig _____
 Total Depth (feet) 2841'
 Fresh water depths (ft) NA
 Salt water depths (ft) NA
 Is coal being mined in area (Y/N) N
 Coal Depths (ft): 1028-1036

Operator Well No.: S. Wyatt #E-2-B
 Quadrangle: Center Point
 County: Tyler
 39 Deg 27 Min 30 Sec.
 80 Deg 40 Min 00 Sec.

Casing & Tubing	Used in Drilling	Left in Well	Cement Fill Up Cu. Ft.
Size			
11"	125'	125'	70 Sacks
8-5/8"	395'	395'	175 Sacks
4 1/2"	2788'	2788'	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) 2694-2700
 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

Gordon Stray?

Treatment:

Perforations:

2680' - 2686' - 4 holes/ft. (24 holes)

Treatment:

Treated via 4.5" Casing with 300 gals. 15% HCl, 220 bbls.

Borate cross-linked gelled water and 13,400 lbs. of 20/40 sand.

Well Log:

TD - 2841'

Shale	0	-	320
Sand	320	-	360
Shale	360	-	478
Sand	478	-	499
Shale	499	-	622
Sand	622	-	638
Shale	638	-	680
Sand	680	-	716
Shale	716	-	1028
Coal	1028	-	1036
Shale	1036	-	1228
Sand	1228	-	1272
Shale	1272	-	1338
Sand	1338	-	1358
Shale	1358	-	1396
Sand	1396	-	1470
Shale	1470	-	1842
Big Lime	1842	-	1912
Big Injun	1912	-	2092
Shale	2092	-	2670
Gordon Stray	2670	-	2688
Shale	2688	-	2694
Gordon	2694	-	2700
Shale	2700	-	2841

10

JAN 06 1997
Mining
Office of Oil & Gas

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

Well Operator's Report of Well Work

Farm name: Pennzoil Products Company
LOCATION: Elevation: 800.00'
District: McElroy
Latitude: 5,400 Feet south of
Longitude: 9,850' Feet west of
Company: PENNZOIL PRODUCTS COMPANY
P.O. BOX 5519
VIENNA, WV 26105-5519
Agent: PHILIP S. ONDRUSEK
Inspector: Mike Underwood
Permit Issued: 9/10/96
Well work Commenced: 8/8/96
Well work Completed: 9/27/96
Verbal plugging permission granted on:
Rotary Cable Rig
Total Depth (feet) 2841'
Fresh water depths (ft) NA
Salt water depths (ft) NA
Is coal being mined in area (Y/N) N
Coal Depths (ft): 1028-1036

Operator Well No.: S. Wyatt #E-2-B
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.
11"	125'	125'	70 Sacks
8-5/8"	395'	395'	175 Sacks
4 1/2"	2788'	2788'	275 Sacks

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Producing formation Gordon Pay zone depth (ft) 2694-2700

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

01/10/97 batch

Treatment :

Perforations:

2680' - 2686' - 4 holes/ft. (24 holes)

Treatment:

Treated via 4.5" Casing with 300 gals. 15% HCl, 220 bbls.

Borate cross-linked gelled water and 13,400 lbs. of 20/40 sand.

Well Log :

TD - 2841'

Shale	0	-	320
Sand	320	-	360
Shale	360	-	478
Sand	478	-	499
Shale	499	-	622
Sand	622	-	638
Shale	638	-	680
Sand	680	-	716
Shale	716	-	1028
Coal	1028	-	1036
Shale	1036	-	1228
Sand	1228	-	1272
Shale	1272	-	1338
Sand	1338	-	1358
Shale	1358	-	1396
Sand	1396	-	1470
Shale	1470	-	1842
Big Lime	1842	-	1912
Big Injun	1912	-	2092
Shale	2092	-	2670
Gordon Stray	2670	-	2688
Shale	2688	-	2694
Gordon	2694	-	2700
Shale	2700	-	2841

FILE COPY

RECEIVED
Office of Oil & Gas
UIC Section

AUG 26 1996

WV Division of
Environmental Protection

1) Date May 28, 1996
 2) Well No. Silas Wyatt No.E-2-B
 3) SIC Code _____
 4) API Well No. 47 - 095 - 1663-LI
 State County Permit
 5) UIC Code _____

issued 09/10/96
Expires 09/10/98

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

22564

- WELL TYPE: Liquid Injection Gas Injection _____ Waste Disposal _____
- LOCATION: Elevation 800 Watershed Indian Creek
 District McElroy County Tyler Quadrangle _____ Centerpoint _____
- 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
- 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
 Plug Off Old Formation _____ Perforate New Formation _____ Convert _____
 Other Physical Change in Well (specify) _____
- 13) Geological target formation Gordon 419 Depth 2660 Ft. (Top) to 2675 Ft. (Bottom)
- 14) Estimated depth of completed well (or actual depth of existing well) 2800 Ft.
- 15) Approximate water strata depths: Fresh 30 Ft. Salt 1007 Ft.
- 16) Approximate coal seam depths: 612 Ft.
- 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.
- 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	SPECIFICATIONS					FOOTAGE INTERVALS		CEMENT FILLUP OR SACKS	PACKERS
	Size	Grade	Weight	New	Used	For Drilling	Left in Well		
Conductor	11"	L.S.	32#			125	125	70 Sks.	Kinds
Fresh Water	8 5/8"	L.S.	20#	X		395	395	175 Sks.	
Coal									Sizes
Intermediate									
Production Tubing	4 1/2"	J-55	10.5#	X		2788	2788	275 Sks.	Depths Set
Liners									Perforations
									Top Bottom

- 25) APPLICANTS OPERATING RIGHTS were acquired from Kermit McIntyre et al.
 by Deed _____ Lease Other Contract _____ Dated August 22, 1980 of record in the
Tyler County Clerk's Office in Deed Book 226 at Page 277

RECEIVED
Office of Oil & Gas
UIC Section
AUG 26 1996
WV Division of
Environmental Protection

RECEIVED
Office of Oil & Gas
UIC Section
AUG 26 1996
WV Division of
Environmental Protection

1) Date May 28, 1996
2) Well No. Silas Wyatt No.E-2-B
3) SIC Code _____
4) API Well No. 47 - 095 - 1463-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 Pennzoil Products Co.
Address P.O. Box 5519
Vienna, WV 26105

(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 47-095-1663-LI

Sept. 10th. 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 9-10-98 unless well work is commenced prior to that date and prosecuted with due diligence.

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

0301449537

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: _____