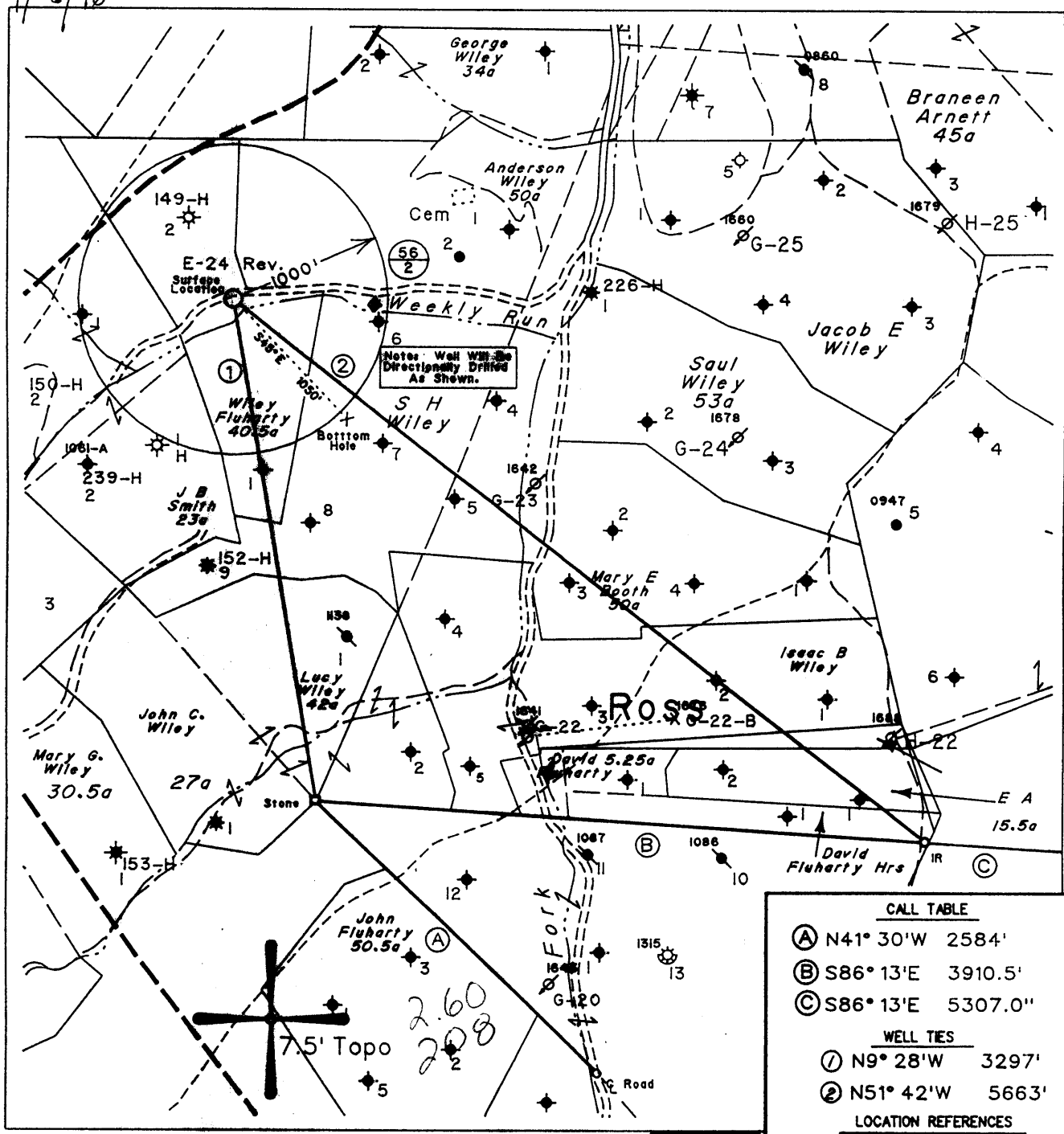


1/26/96



Note: Well Will Be Directionally Drilled As Shown.

CALL TABLE	
(A)	N41° 30' W 2584'
(B)	S86° 13' E 3910.5'
(C)	S86° 13' E 5307.0'
WELL TIES	
(1)	N9° 28' W 3297'
(2)	N51° 42' W 5663'
LOCATION REFERENCES	
S59° 30' W	99' Telephone P.c'e
N10° 13' W	50' Stake on N. Side Road

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

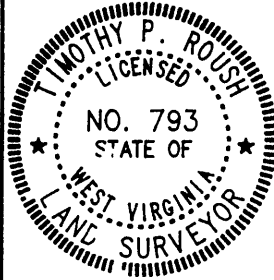
Denotes a Water Supply Source

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

FILE NO. 1094
 MAP NO. N57 N 4 S E W 5
 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 April 12, 19 96
 FARM S.H. Wiley NO. E-24 Rev
 AP' WELL NO. 47-103-01702-5

WELL TYPE: OIL GAS LIQUID INJECTION WASTE DISPOSAL
 (IF "GAS") PRODUCTION STORAGE DEEP SHALLOW
 LOCATION: ELEVATION 852' WATERSHED Weekly Run
 DISTRICT Green COUNTY Putzel
 QUADRANGLE Pine Grove

SURFACE OWNER Linda Coen A REAGE 40 Ac.
 OIL & GAS ROYALTY OWNER Pennzoil Products Co. et.al. LEASE ACREAGE 132 Ac.
 LEASE NO. RG - 2832-00

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 Gardon ESTIMATED DEPTH 3,110'

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 9-0 95

FORM IV-6

JUN 16 1997

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

Permitting
Office of Oil & Gas

Well Operator's Report of Well Work

Farm name: Coen. Linda Operator Well No.: S.H. Wiley #E-24 R

LOCATION: Elevation: 852.00 Quadrangle: Pine Grove
District: Green County: Wetzel
Latitude: 13,650 Feet south of 39 Deg 32 Min 30 Sec.
Longitude: 11,000 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: 5/15/96

Well work Commenced: 6/27/96

Well work Completed: 9/20/96

Verbal plugging permission granted on:

Rotary Cable Rig

Total Depth (feet) 3433'

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 Size	Used in Drilling	Left in Well	Cement Fill Up Cu. Ft.
8-5/8"	833'	833'	350 Sacks
4 1/2"	3352.8'	3352.8'	315 Sacks

OPEN FLOW DATA

*Well was drilled as a waterflood injection well. No open-flow data was obtained
Note This well was drilled directionally S30-20E 1272' to Gordon formation.

Producing formation Gordon Pay zone depth (ft) 3224-3297

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: 1/3/97

JUN 16 1997

Treatment : Perforations: 3286' - 3290' - 6 holes/ft. (24 holes)
Treatment: Treated via 4.5" Casing with 300 gals. 15% HCl, 191 bbls.
Borate cross-linked gelled water and 15,000 lbs. of 20/40 sand.

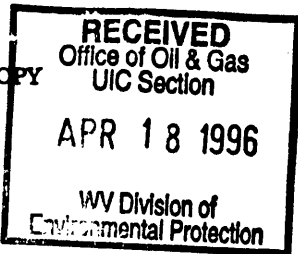
Note This well was drilled directionally S30-20E 1272' to Gordon formation.
All depths given are measured depths.

Well Log : TD = 3433'

Sand & Shale	0	-	1012
Sand	1012	-	1070
Shale	1070	-	1110
Sand	1110	-	1178
Shale	1178	-	1223
Sand	1223	-	1270
Shale	1270	-	1515
Sand	1515	-	1552
Shale	1552	-	1610
Sand	1610	-	1670
Shale	1670	-	1866
Sand	1866	-	1893
Big Lime	1893	-	1985
Big Injun	1985	-	2236
Shale	2236	-	3224
Gordon	3224	-	3297
Shale	3297	-	3312
Sand	3312	-	3323
Shale	3323	-	3433

22024

FORM WW-3(B) PERMIT COPY
reverse
'91



1) Date April 12, 1996
2) Well No. S.H. Wiley No.E-24 Rev.
3) SIC Code _____
4) API Well No. 47 - 103 - 1702-LI
State County Permit
5) UIC Code _____

*Issued, 05/15/96
Expires 05/15/98*

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

6) WELL TYPE: Liquid Injection X Gas Injection _____ Waste Disposal _____
7) LOCATION: Elevation 852 Watershed Weekley Run 548
District Green County Wetzel Quadrangle Pine Grove

8) WELL OPERATOR: Pennzoil Products Company 4670 9) DESIGNATED AGENT: Philip S. Ondrusek
P.O. Box 5519 37450 P.O. Box 5519
Vienna, WV 26105 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 X Drill Deeper _____ Redrill _____ Stimulate X
Plug Off Old Formation _____ Perforate New Formation _____ Convert _____
Other Physical Change in Well (specify) (Note! Well Will Be Drilled Directionally S45E 1050')

13) Geological target formation Gordon 419 Depth 3005 Ft. (Top) 3018 Ft. (Bottom)

14) Estimated depth of completed well (or actual depth of existing well) 3110 Ft.

15) Approximate water strata depths: Fresh 32 Ft. Salt 1059 Ft.

16) Approximate coal seam depths: 664 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 indentification 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.

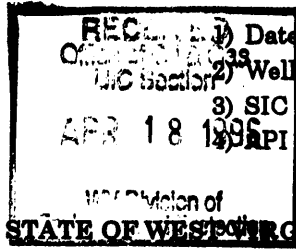
22) Filters (if any): Cartridge filters and/or coal bed filters

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	8 5/8"	L.S.	20#	X		200	200	Cement To	
Coal								Surface	Sizes
Intermediate									
Production	4 1/2"	J-55	10.5#	X		3100	3100	Cement Over	Depths Set
Tubing								Salt Sand	
Liners									Perforations
									Top Bottom

25) APPLICANTS OPERATING RIGHTS were acquired from Richard Wiley et al
by Deed _____ Lease X Other Contract _____ Dated December 28, 1953 of record in the
Wetzel County Clerk's Office in Lease Book 49 at Page 134



April 12, 1996

S.H. Wiley No.E-24 Rev.

Well No. _____
SIC Code _____
API Well No. 47 - 103 - 1702 - L1
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 Linda Coen
Address Rd. 2, Box 87
Proctor, WV 26055
(ii) Name _____
Address _____
(iii) Name _____
Address _____

7 (i) COAL OPERATOR WITH DECLARATION ON RECORD:

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 47-103-1702-LI Date May 15th. 19 96

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 5-15-98 unless well work is commenced prior to that date and prosecuted with due diligence.

Bond: ✓	Agent: ✓	Plat: 18	Casing: 18	Fee ck# D301344345
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Michael J. Fair
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:	_____		