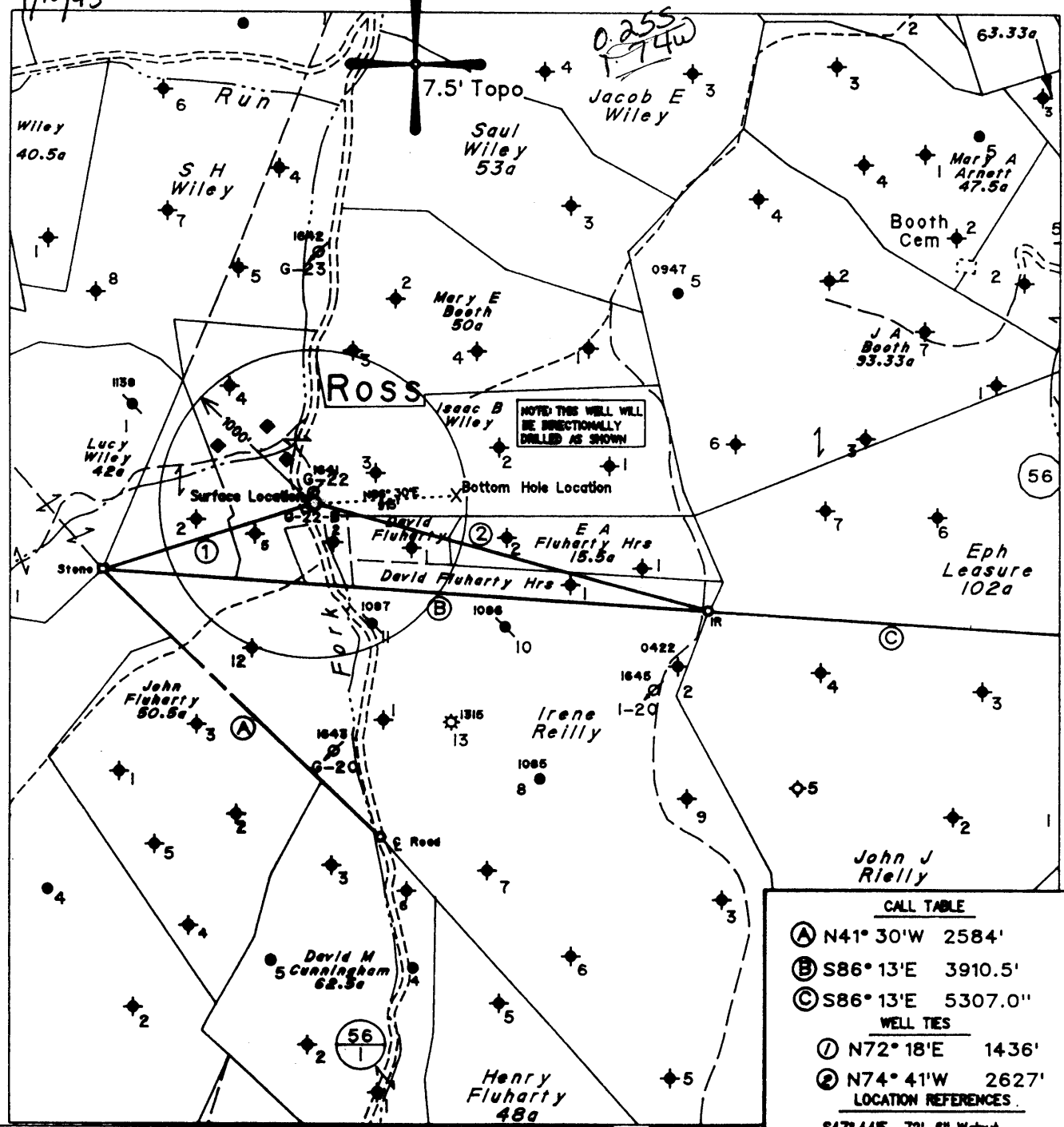


4/10/95



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

CALL TABLE

Ⓐ N41° 30' W 2584'

Ⓑ S86° 13' E 3910.5'

Ⓒ S86° 13' E 5307.0'

WELL TIES

① N72° 18' E 1436'

② N74° 41' W 2627'

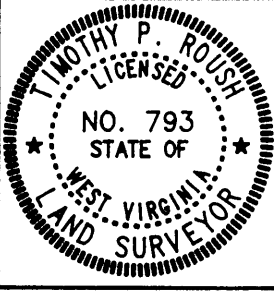
LOCATION REFERENCES

S47° 44' E 72' 6" Walnut
 N54° 24' W 5' 8" Apple
 N3° 08' W 80' I.B. Wiley No. G-22

FILE NO. 1801
 MAP NO. N58 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 March 23, 19 95
 FARM Isaac B. Wiley NO. G-22-B
 API WELL NO. 47-103-1676-5

WELL TYPE: OIL ___ GAS ___ LIQUID INJECTION WASTE DISPOSAL ___
 (IF "GAS") PRODUCTION ___ STORAGE ___ DEEP ___ SHALLOW ___
 LOCATION: ELEVATION 851' WATERSHED Fluharty Fork
 DISTRICT Green COUNTY Wetzel
 QUADRANGLE Centerpoint NW
 SURFACE OWNER Herman Kelly Ring ACREAGE 1.75 Ac.
 OIL & GAS ROYALTY OWNER Pennzoil Products Co. et al. LEASE ACREAGE 64 Ac.
 LEASE NO. 47251-00
 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 2950' MD
 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

MAY 5 1995

8-0 95

FORM IV-6

RECEIVED
WV Division of
Environmental Protection

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

APR 10 1996

Permitting
Office of Oil & Gas

Well Operator's Report of Well Work

Farm name: RING, HERMAN KELLY
LOCATION: Elevation: 851'
District: GREEN
Latitude: 1,300 Feet south of
Longitude: 9,150 Feet west of

Operator Well No.: I. WILEY G-22-B

Quadrangle: CENTERPOINT

County: WETZEL
39 Deg 30 Min 0 Sec.
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: 5/3/95

Well work Commenced: 8/25/95

Well work Completed: 10/27/95

Verbal plugging permission granted on:

Rotary X Cable _____ Rig _____

Total Depth (feet) 3,038'

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	307.85'	307.85'	To Surface
4 1/2"	2963'	2963'	170 SKS

OPEN FLOW DATA

*Waterflood Injection Well

Producing formation GORDON Pay zone depth (ft) 2884-2951
 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: 4/8/96

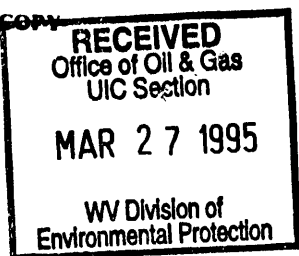
APR 10 1996

Treatment : Perforated Gordon 2914-2920 and 2926-2931 (44 Holes) Treated via 4 1/2" Casing with 300 gal. 15% HCl Acid, 256 BBL gelled water & 15,400# of 20/40 Sand.

Well Log :

Sand & Shale	0	-	1200'
Sand	1200'	-	1233'
Shale	1233'	-	1940'
Sand	1940'	-	1956'
Sand & Shale	1956'	-	1997'
Sand	1997'	-	2086'
Shale	2086'	-	2884'
Sand Gordon	2884'	-	2951'
T.D	3038'		

FILE COPY



1) Date: March 24
 2) Operator's Well No. Isaac B. Wiley G-
 3) SIC Code _____
 4) API Well NO. 47 State 103 County 16765
 5) UIC Permit No. _____

FOR (Re)

*Issued 05/03/95
Expires 05/03/97*

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

DIVISION OF ENVIRONMENTAL PROTECTION, OFFICE OF OIL AND GAS

- 6) WELL TYPE: Liquid injection / Gas injection (not storage) _____ / Waste disposal _____
 7) LOCATION: Elevation: 851' Watershed: Fluharty Fork
 District: Green County: Wetzel Quadrangle: Centerpoint
 8) WELL OPERATOR Pennzoil Products Co. 37450 9) DESIGNATED AGENT James 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 Mike Underwood
 Address Route 2, Box 135
Salem, WV 26426
 11) DRILLING CONTRACTOR: Name _____
 Address _____

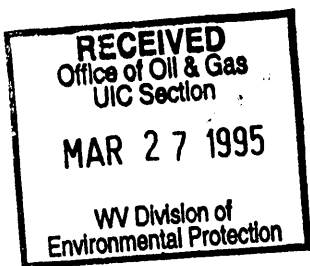
- NOTE: This well will be drilled directionally N86 - 30'E - 915'
 12) PROPOSED WELL WORK: Drill / Drill deeper _____ / Redrill _____ / Stimulate
 Plug off old formation _____ / Perforate new formation _____ / Convert _____
 Other physical change in well (specify) _____
 13) GEOLOGICAL TARGET FORMATION, Gordon 419 Depth 2830 feet(top) to 2846 feet(bottom)
 14) Estimated depth of completed well, (or actual depth of existing well) 2950 ft.
 15) Approximate water strata depths; Fresh, 31 feet; salt, 1058 feet.
 16) Approximate coal seam depths: 663'
 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 2332
 21) DETAILED IDENTIFICATION OF MATERIALS TO BE INJECTED, INCLUDING ADDITIVES: Fresh water, produced water, bactericides and other chemicals as needed to maintain water quality & improve oil
 22) FILTERS (IF ANY): Cartridge and/or Coalbed filters recovery.
 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		200	200	Cement to surface	Sizes
Coal									
Intermediate									
Production	4-1/2	J-55	10.5	X		2950	2950	Cement over salt sand	Depths set
Tubing									
Liners									Perforations: Top Bottom

- 25) APPLICANT'S OPERATING RIGHTS were acquired from Madeline K. Sovil
 by deed _____ / lease / other contract _____ / dated October 17, 19 78, of record in the
Wetzel County Clerk's office in Lease Book 58-A at page 173

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



1) Date March 24, 1995
Operator's
2) Well No. Isaac B. Wiley G-22-B
3) SIC Code _____
4) API Well No. 47 - 103 - 1676
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

7 (i) COAL OPERATOR N/A

Address _____

(i) Name Herman Kelly Ring

Address Box 20

Reader, WV 26167

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

Name _____

Address _____

(ii) Name _____

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

OFFICE USE ONLY
DRILLING PERMIT

Permit number 47-103-1676-LI

May 3 19 95
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 5-3-97 unless well work is commenced prior to that date and prosecuted with due diligence.

Bond: ✓	Agent: ✓	Plat: <i>18</i>	Casing: <i>18</i>	Fee: <i>CRB 21498</i>
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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: _____