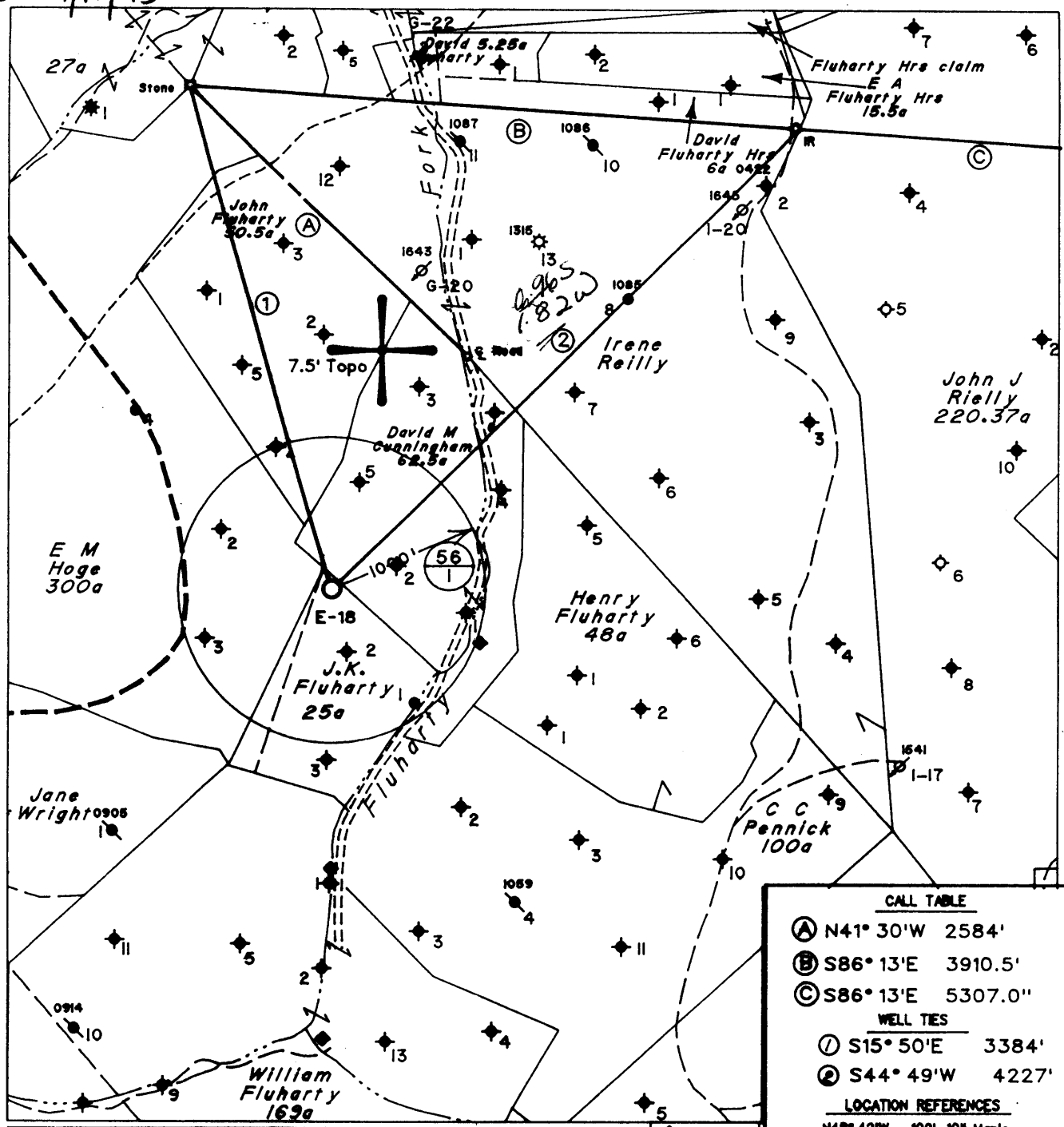


GS 4/10/95



CALL TABLE	
Ⓐ	N41° 30' W 2584'
Ⓑ	S86° 13' E 3910.5'
Ⓒ	S86° 13' E 5307.0'
WELL TIES	
①	S15° 50' E 3384'
②	S44° 49' W 4227'
LOCATION REFERENCES	
N48° 42' W	109' 10" Maple
N12° 44' W	112' 5" Maple
S35° 36' E	85' 7" Ash

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

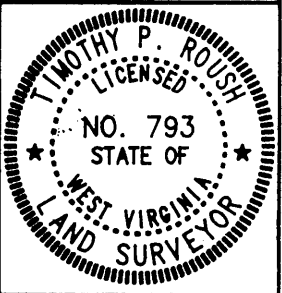
⬠ Denotes a Water Supply Source

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

FILE NO. 1060
 MAP NO. N57 N 3 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 2, 19 95
 FARM J.K. Fluharty NO. E-18
 API WELL NO. 47-103-1673-5

WELL TYPE: OIL GAS LIQUID INJECTION WASTE DISPOSAL
 (IF "GAS") PRODUCTION STORAGE DEEP SHALLOW
 LOCATION: ELEVATION 1268' WATERSHED Fluharty Fork
 DISTRICT Green COUNTY Wetzel
 QUADRANGLE Centerpoint NW
 SURFACE OWNER Yellow House Sportsman's Club, Inc. ACREAGE 25 Ac.
 OIL & GAS ROYALTY OWNER Pennzoil Products Co. et.al. LEASE ACREAGE P/O 240 Ac.
 LEASE NO. Fee 2831-00
 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 3260'
 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

RECEIVED
WV Division of
Environmental Protection

APR 10 1996

Permitting
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: YELLOW HOUSE SPORTS CLUB Operator Well No.: J.K. FLUHARTY E-18

LOCATION: Elevation: 1,268 Quadrangle: CENTERPOINT

District: GREEN County: WETZEL
Latitude: 5,050 Feet south of 39 Deg 30 Min 0 Sec.
Longitude: 9,600 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: 5/3/95

Well work Commenced: 7/25/95

Well work Completed: 10/18/95

Verbal plugging permission granted on: _____

Rotary _____ Cable _____ Rig _____

Total Depth (feet) 3,262

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	528'	528'	275 SKS
4 1/2"	3231.95'	3231.05'	170 SKS

OPEN FLOW DATA *Waterflood Injection Well

Producing formation GORDON Pay zone depth (ft) 3093-3155
 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

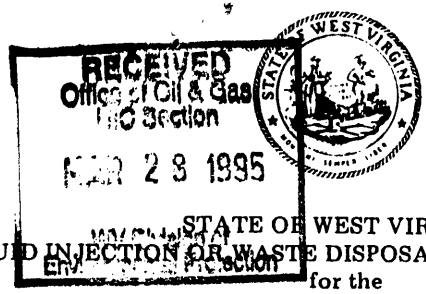
Treatment: Perforated Gordon 3124'-3132' (32 Holes) Treated Via 4 1/2 CSG with 300 Gal 15% HCl Acid, 272 BBL Gelled Water & 15,000 LB 20/40 Sand.

Well Log:

Sand & Shale	0	-	1564'
Sand	1564'	-	1648'
Shale	1648'	-	1660'
Sand	1660'	-	1712'
Sand & Shale	1712'	-	2227'
Sand	2227'	-	2276'
Sand & Shale	2276'	-	2238'
Sand <i>Solun</i>	2238'	-	2516'
Sand & Shale	2516'	-	3093'
Gordon	3093'	-	3155'
T.D.	3262'		

10/91

20609



1) Date: March 3
 2) Operator's Well No. J. K. FLUHARTY #E-18
 3) SIC Code _____
 4) API Well NO. 47 - 103 - 1673 S
 State County
 5) UIC Permit No. _____

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

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 / Gas injection (not storage) _____ / Waste disposal _____
- 7) LOCATION: Elevation: 1268' Watershed: Fluharty Fork
 District: Green County: Wetzel Quadrangle: Center Point
- 8) WELL OPERATOR Pennzoil Products Co. 37450
 Address P. O. Box 5519 4670
Vienna, WV 26105
- 9) DESIGNATED AGENT James A. Crews
 Address 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 /
 Plug off old formation _____ / Perforate new formation _____ / Convert _____
 Other physical change in well (specify) _____
- 13) GEOLOGICAL TARGET FORMATION, Gordon 419 Depth 3148 feet(top) to 3163 feet(bottom)
- 14) Estimated depth of completed well, (or actual depth of existing well) 3260 ft.
- 15) Approximate water strata depths; Fresh, 448 feet; salt, 1475 feet.
- 16) Approximate coal seam depths: 1080
- 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 and improve oil recovery.
- 22) FILTERS (IF ANY): Cartridge and/or coalbed 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		518'	518'	Cement to surface	Sizes
Coal									
Intermediate									
Production	4-1/2	J-55	10.5	X		3260'	3260'	Cement over salt sand	Depths set
Tubing									Perforations:
Liners									Top Bottom

25) APPLICANT'S OPERATING RIGHTS were acquired from Wm. Fluharty et al
 by deed / lease _____ / other contract _____ / dated May 9 1896, of record in the
Wetzel County Clerk's office in Deed Book 49 at page 133

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

RECEIVED
Office of Oil & Gas
UIC Section
MAR 28 1995
WV Division of
Environmental Protection

1) Date March 3, 1995
Operator's
2) Well No. J. K. FLUHARTY #E-18
3) SIC Code _____
4) API Well No. 47 - 103 - 1673
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 Yellow House Sportsman's Club
Address Rd. 5, Box 555
Wheeling, WV 26003
 - (ii) Name _____
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 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 47-103-1673-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: AS	Casing: AS	Fee: CR# 21500
------------	-------------	-------------	---------------	----------------------

Michael W. 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: _____