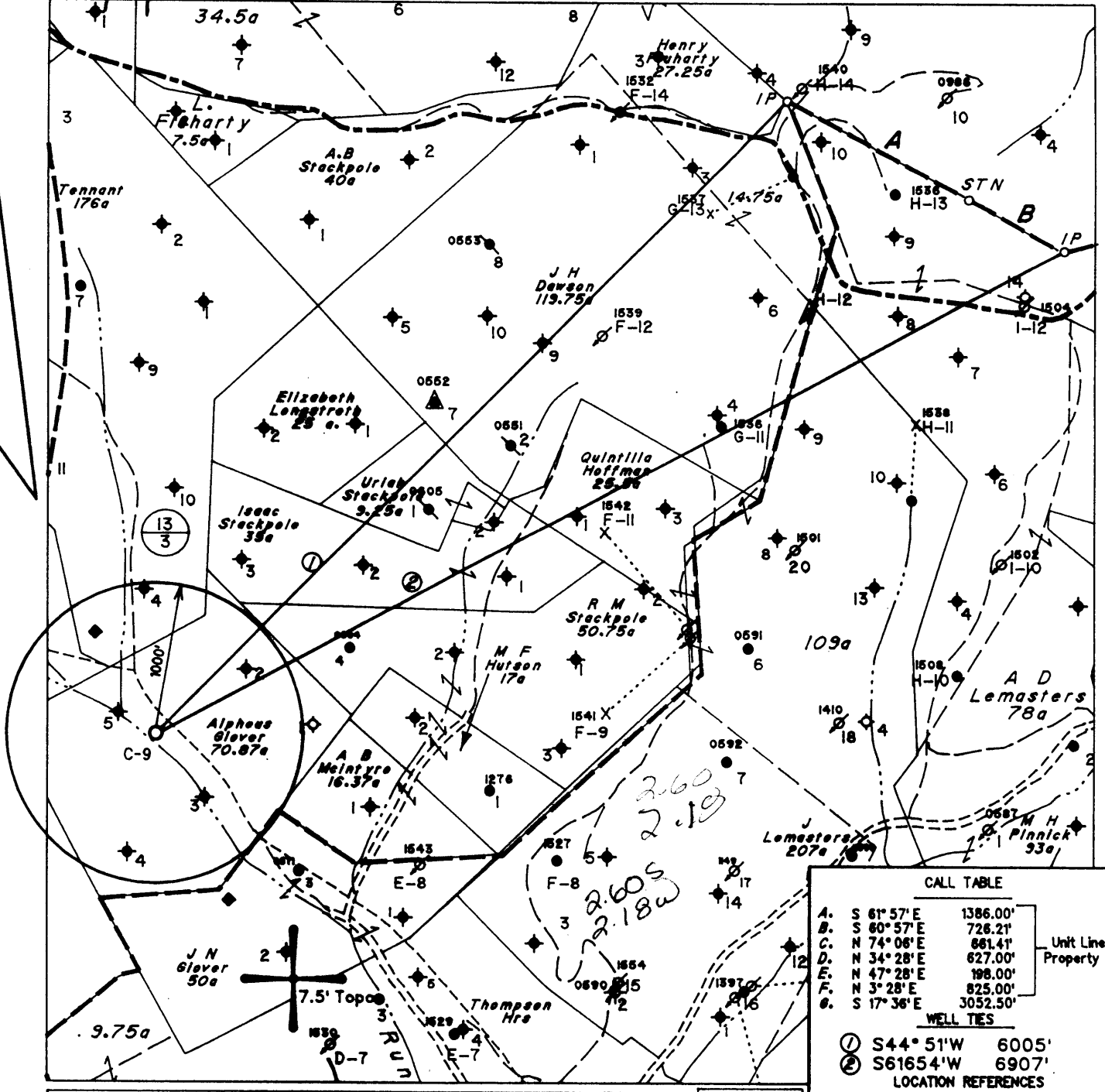


AS 4/10/95



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

◆ Denotes a Water Supply Source

CALL TABLE

A.	S 61° 57' E	1386.00'
B.	S 60° 57' E	726.21'
C.	N 74° 06' E	861.41'
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

- ① S44° 51' W 6005'
- ② S61654' W 6907'

LOCATION REFERENCES

- S34° 28' W 70' Dbl. Hickory
- N81° 08' W 172' 3" Walnut
- N61° 18' W 172' 3" Crabapple

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

FILE NO. 1293
 MAP NO. N47 N 2 S E W 4
 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 Alpheus Glover NO. C-9
 API WELL NO. 47-095-1628-5

WELL TYPE: OIL ___ GAS ___ LIQUID INJECTION WASTE DISPOSAL ___
 (IF "GAS") PRODUCTION ___ STORAGE ___ DEEP ___ SHALLOW ___
 LOCATION: ELEVATION 885' WATERSHED Stackpole Run
 DISTRICT McElroy COUNTY Tyler
 QUADRANGLE Centerpoint

SURFACE OWNER Hugh & Darlene Carlton ACREAGE 100 Ac.
 OIL & GAS ROYALTY OWNER Pennzoil Products Co. et.al. LEASE ACREAGE 71 Ac.
 LEASE NO. FEE 2165-00

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 2880'
 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

MAY 16 1995

8-0 95



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: CARLTON, HUGH & DARLENE Operator Well No.: A. GLOVER C-9

LOCATION: Elevation: 885' Quadrangle: CENTERPOINT

District: MCELROY County: TYLER
Latitude: 13,550 Feet south of 39 Deg 30 Min 0 Sec.
Longitude: 11,550 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: MIKE UNDERWOOD
Permit Issued: 5/3/95
Well work Commenced: 7/6/95
Well work Completed: 8/18/95
Verbal plugging permission granted on:
Rotary X Cable Rig
Total Depth (feet) 2882'
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	219'	219'	75 SKS
4 1/2"	2837'	2837'	200 SKS

OPEN FLOW DATA *Waterflood Injection Well

Producing formation GORDON Pay zone depth (ft) 2721-2780

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: Philip S. Ondrusek
Date: 8/18/95

Treatment :

Perforated Gordon 2750-2756 (24 Holes) Treated via 4 1/2" with 300 gal.
15% HCl Acid, 245 BBL gelled water & 7700# 20/40 Sand.

Well Log :

Sand & Shale	0	-	1070'
Sand	1070'	-	1998'
Sand & Shale	1998'	-	1475'
Sand	1475'	-	1509'
Sand & Shale	1509'	-	1887'
Sand	1887'	-	1936'
Shale	1936'	-	2028'
Sand	2028'	-	2153'
Shale	2153'	-	2721'
Gordon	2721'	-	2780'
T.D.	2882'		

10/91

20606

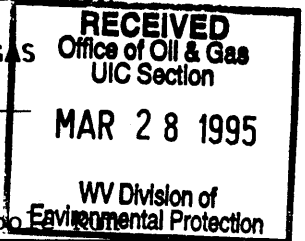


- 1) Date: March 24, 1995
- 2) Operator's Well No. Alpheus Glover No. C-9
- 3) SIC Code _____
- 4) API Well NO. 47 - 095 - 1628-LI
State County Permit
- 5) UIC Permit No. _____

*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: 885' / Watershed: Stackpo
District: McElroy / County: Tyler / Quadrangle: Centerpoint
- 8) WELL OPERATOR Pennzoil Products Co. 37450 / 9) DESIGNATED AGENT James A. Crews
Address P. O. Box 5519 / Address P. O. Box 5519
Vienna, WV 26105 / Vienna, WV 26105
- 10) OIL & GAS INSPECTOR TO BE NOTIFIED
Name Mike Underwood / 11) DRILLING CONTRACTOR:
Address Route 2, Box 135 / Name _____
Salem, WV 26426 / 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 / Depth 2765 feet(top) to 2780 feet(bottom)
- 14) Estimated depth of completed well, (or actual depth of existing well) 2880 ft.
- 15) Approximate water strata depths; Fresh, 65 feet; salt, 1092 feet.
- 16) Approximate coal seam depths: 697
- 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 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		200	200	Cement to surface	Sizes
Coal									
Intermediate									
Production	4-1/2	J-55	10.5	X		2880	2880	Cement over salt sand	Depths set
Tubing									
Liners									Perforations: Top Bottom

25) APPLICANT'S OPERATING RIGHTS were acquired from Alpheus & Martha Glover
by deed / lease _____ / other contract _____ / dated 11/9, 1896, of record in the
Tyler County Clerk's office in Deed Book 30 at page 641

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 24, 1995
- Operator's _____
- 2) Well No. Alpheus Glover No. C-9
- 3) SIC Code _____
- 4) API Well No. 47 - 095 - 1628
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 Hugh & Darlene Carlton
Address 4955 South Sanford Ave.
Sanford, FL 32773
 - (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 Timothy P. Roush
Its Supervisor, Surveying/Mapping
Telephone (304) 422-6565