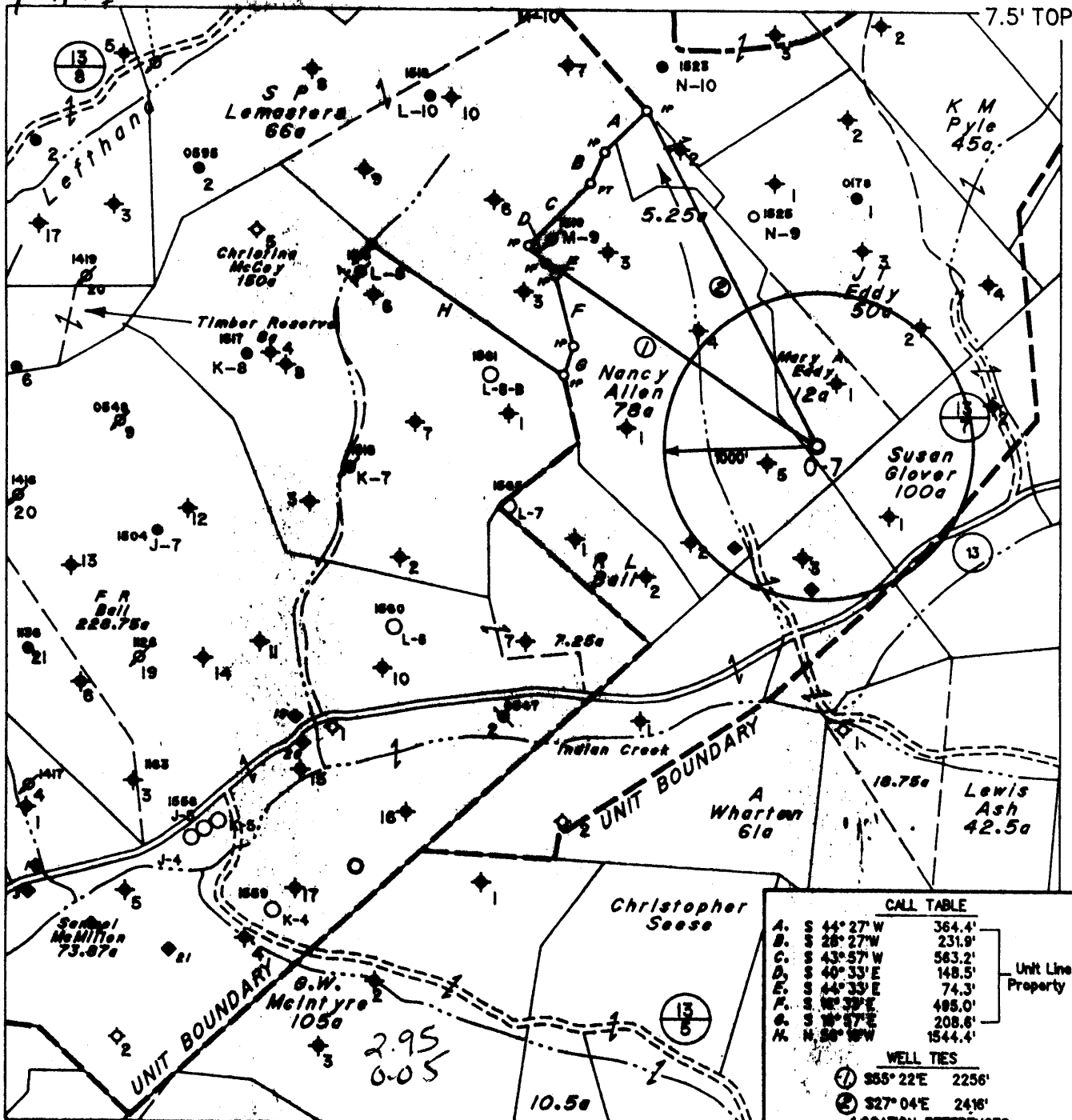


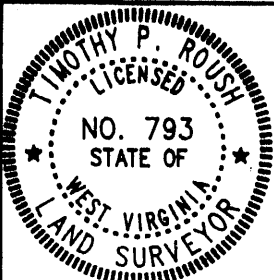
N8 3/24/94



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. 1794
 MAP NO. N48 N / S E W 3
 SCALE 1" = 1000'
 MINIMUM DEGREE OF ACCURACY 1 in 200
 PROVEN SOURCE OF ELEVATION F.R. Ball No. 9
(47-095-0548) = 1152'

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 9, 19 94
 FARM M.A. Eddy NO. 0-7
 API WELL NO. 47-095-1621-L1

WELL TYPE: OIL ___ GAS ___ LIQUID INJECTION X WASTE DISPOSAL ___
 (IF "GAS") PRODUCTION ___ STORAGE ___ DEEP ___ SHALLOW ___
 LOCATION: ELEVATION 1148' WATERSHED Indian Creek
 DISTRICT McEroy COUNTY Tyler
 QUADRANGLE Centerpoint 15 NW
 SURFACE OWNER Ellen Math ACREAGE 125 Ac.
 OIL & GAS ROYALTY OWNER Pennzoil Products Co. et al. LEASE ACREAGE 12.5 Ac.
 LEASE NO. _____
 PROPOSED WORK: DRILL X CONVERT ___ DRILL DEEPER ___ REDRILL ___ FRACTURE OR STIMULATE X PLUG OFF OLD FORMATION ___ PERFORATE NEW FORMATION ___ OTHER PHYSICAL CHANGE IN WELL (SPECIFY) _____
 PLUG AND ABANDON ___ CLEAN OUT AND REPLUG ___
 TARGET FORMATION Garde ESTIMATED DEPTH 3130'
 WELL OPERATOR Pennzoil Products Company DESIGNATED AGENT James A. Crews
 ADDRESS P. O. Box 5519 ADDRESS P. O. Box 5519
Vienna, W.Va. 26105 4670 ADDRESS Vienna, W.Va. 26105

MAY 27 1994

2016

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

Well Operator's Report of Well Work

Farm name: MUTH, ELLEN ETAL.

Operator Well No.: M.A. EDDY 0-7

LOCATION: Elevation: 1,148.00 Quadrangle: CENTER POINT

District: MCELROY County: TYLER
Latitude: 400 Feet South of 39 Deg. 27Min. 30 Sec.
Longitude 300 Feet West of 80 Deg. 40 Min. Sec.

Company: PENNZOIL PRODUCTS COMPANY
P. O. BOX 5519
VIENNA, WV 26105-5519

Agent: JAMES A. CREWS

Inspector: MIKE UNDERWOOD
Permit Issued: 05/25/94
Well work Commenced: 07/23/94
Well work Completed: 09/16/94

Verbal Plugging
Permission granted on: _____

Rotary X Cable _____ Rig _____

Total Depth (feet) 3148'

Fresh water depths (ft) N/A

Salt water depths (ft) N/A

Is coal being mined in area (Y/N)? N

Coal Depths (ft): N/A

Casing & Tubing Size	Used in Drilling	Left in Well	Cement Fill Up Cu. Ft. To surface
8-5/8	396	396	170 sks.
4-1/2	3104.7	3104.7	300 sks.

OPEN FLOW DATA

* Water Injection Well

Producing formation Gordon Pay zone depth (ft) 3008-3062
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: 1/4/95

TREATMENT

Perforated with 20 holes 3034'-3044'. Treated with 300 gallons 15% HCL acid, 470 barrels gelled water and 20,000# 20/40 sand.

WELL LOG

Sand & Shale	0'-1004'
Sand	1004'-1034'
Sand & Shale	1034'-1392'
Sand	1392'-1418'
Sand & Shale	1418'-1598'
Sand & Shale	1598'-1614'
Sand	1614'-1680'
Sand & Shale	1680'-2202'
Big Injun	2202'-2496'
Shale	2496'-3003'
Stray	3003'-3008'
Gordon	3008'-3062'
T.D.	3148'.

MAR 18 94



- 1) Date: _____, 19__
- 2) Operator's Well No. M. A. EDDY 0-7
- 3) SIC Code _____
- 4) API Well NO. 47 State 095 County 1621-LI Permit
- 5) UIC Permit No. _____

Issued 05/25/94
Expires 05/25/96

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

19233

- WELL TYPE: Liquid injection Gas injection (not storage) _____ Waste disposal _____
- 7) LOCATION: Elevation: 1,148' Watershed: Indian Creek
 District: McElroy County: Tyler Quadrangle: Centerpoint 286
- 8) WELL OPERATOR Pennzoil Products Company
 Address P. O. Box 5519
Vienna, WV 26105
- 9) DESIGNATED AGENT James A. Crews
 Address Pennzoil Products Company
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 Depth 3028 feet (top) to 3043 feet (bottom)
- 14) Estimated depth of completed well, (or actual depth of existing well) 3130 ft.
- 15) Approximate water strata depths; Fresh, 328 feet; salt, 1355 feet.
- 16) Approximate coal seam depths: 960'
- 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: Freshwater, produced water, bactericides, and other chemicals as necessary to maintain water quality and improve oil recovery.
- 22) FILTERS (IF ANY): Cartridge filters 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	LS	20	X		398	398	cement to surface	Sizes
Coal									
Intermediate									
Production	4-1/2	M-50	10.5	X		3130	3130	cement over salt sand	Depths set
Tubing									
Liners									Perforations:
									Top Bottom

25) APPLICANT'S OPERATING RIGHTS were acquired from Hazel L. Kiney et al
 by deed _____ / lease / other contract _____ / dated August 16
Tyler County Clerk's office in Lease Book 216, 1978 at page 725 of record in the

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

MAR 18 94

1) Date March 14, 1994
Operator's
2) Well No. M. A. EDDY O-7
3) SIC Code
4) API Well No. 47 - 095 -162-
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 Chester Yeater, Jr. & Thelma Fleming
Address 639 Washington Avenue
Clarksburg, WV 26301
 - (ii) Name Ellen J. Muth
Address Rt. 3, Box 465
Cynthiana, KY 41031
 - (iii) Name Earl & Edith Glover
Address HC 62, Box 41
Jacksonburg, WV 26377
- 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.

PENNYOIL PRODUCTS COMPANY
Well Operator
By [Signature] Timothy P. Roush
Its Supervisor, Surveying/Mapping
Telephone (304) 422-6565