

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

Well Operator's Report of Well Work

DEC 07 93

Farm name: WVA. PUBLIC LAND CORP. Operator Well No.: H. NOLAND M-17

LOCATION: Elevation: 1,000.00 Quadrangle: CENTER POINT

District: GREEN County: WETZEL
Latitude: 6250 Feet South of 39 Deg. 30Min. Sec.
Longitude 1900 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: RANDAL MICK
Permit Issued: 05/12/93
Well work Commenced: 9/14/93
Well work Completed: 10/16/93
Verbal Plugging
Permission granted on: _____
Rotary X Cable _____ Rig
Total Depth (feet) 3050
Fresh water depths (ft) N/A
Salt water depths (ft) N/A

Is coal being mined in area (Y/N)? N
Coal Depths (ft): _____

Casing & Tubing Size	Used in Drilling	Left in Well	Cement Fill Up Cu. Ft.
8 5/8	256	256	100 Sk.
4 1/2	2979.00	2979.00	300 Sk.

OPEN FLOW DATA

Producing formation Gordon Pay zone depth (ft) 2868 - 2930
 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

* Water Injection Well
 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: 12/6/93

TREATMENT:

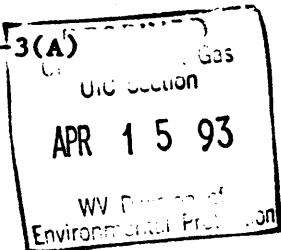
Perforated: 2893 - 2896 6 Holes
 2900 - 2910 20 Holes

Treated: 300 Gal. 15% HCL Acid, 281 Bbl. Gelled Water &
 1900# 80/100 Sand & 3700# 20/40 Sand

WELL LOG:

Sand & Shale	0 - 535
Sand	535 - 562
Shale	562 - 650
Sand	650 - 700
Sand & Shale	700 - 1130
Sand	1130 - 1240
Sand & Shale	1240 - 1430
Sand	1430 - 1460
Shale	1460 - 1500
Sand	1500 - 1540
Sand & Shale	1540 - 2030
Little Lime	2030 - 2044
Pencil Cave	2044 - 2053
Big Lime	2053 - 2120
Shale	2120 - 2150
Big Injun	2150 - 2300
Shale	2300 - 2868
Stray	2868 - 2873
Gordon	2873 - 2930
T.D.	3050

DE -411
DFT-419



1) Date April 13, 1993
Operator's
2) Well No. HENRY NOLAND #M-17
3) SIC Code _____
4) API Well No. 47 - 103 - 1544
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 WV Public Land Corp.
Address Bldg. #3, Room 643
1900 Kanawha Blvd., E.
- (ii) Name Charleston, WV 25305
Address _____
Dept. Natural Resources
- (iii) Name 1304 Goose Run Road
Address Fairmont, WV 26554
ATTN: Gary Foster

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