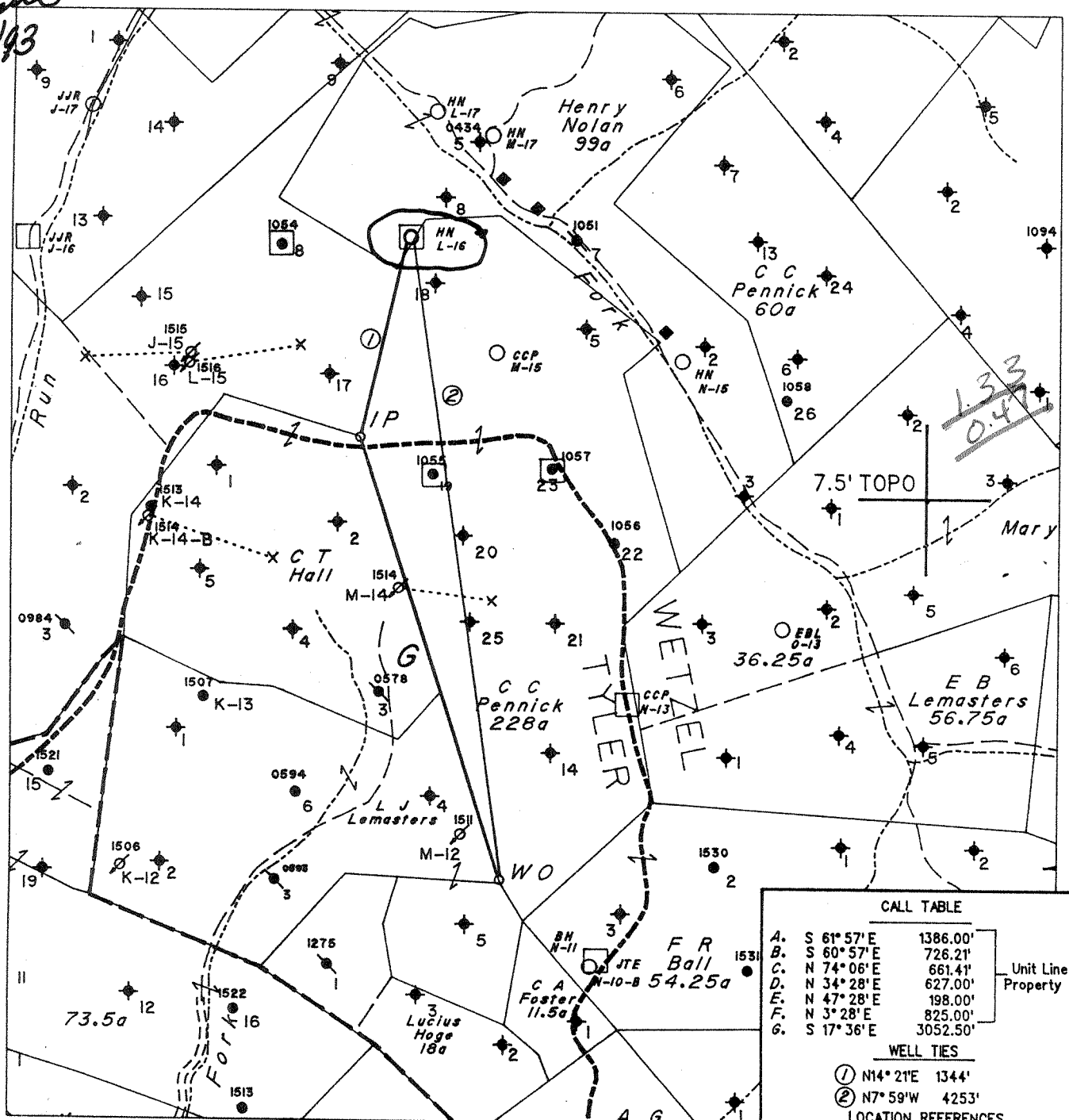


2500'

LATITUDE 39° 30' 00"

LONGITUDE 80° 40' 00"

Janil
4/30/93



CALL TABLE		
A.	S 61° 57' E	1386.00'
B.	S 60° 57' E	726.21'
C.	N 74° 06' E	661.41'
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	N14° 21' E 1344'
②	N7° 59' W 4253'

LOCATION REFERENCES

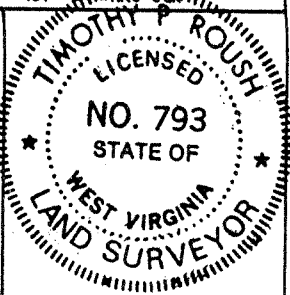
N35° 47' W	154' 14" Ash
N62° 32' W	112' 10" Poplar
N2° 15' W	131' 6" White Oak

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

FILE NO. 523
 MAP NO. N58 N 3 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 31, 19 93
 FARM Henry Nolan NO. L-16
 API WELL NO. 47-103-1535

WELL TYPE: OIL GAS LIQUID INJECTION WASTE DISPOSAL
 (IF "GAS") PRODUCTION STORAGE DEEP SHALLOW
 LOCATION: ELEVATION 962' WATERSHED Piney Fork
 DISTRICT Green 5 COUNTY Wetzel
 QUADRANGLE Centerpoint NW
 SURFACE OWNER State of West Virginia ACREAGE 25.8 Ac.
 OIL & GAS ROYALTY OWNER Pennzoil Products Co. et.al. LEASE ACREAGE 160 Ac.
 LEASE NO. 24422-50
 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 6-6 Jacksonburg-Stringtown (095)
 TARGET FORMATION Gordon ESTIMATED DEPTH 2950'
 WELL OPERATOR Pennzoil Products Company DESIGNATED AGENT James A. Crews
 ADDRESS P. O. Box 5519 ADDRESS P. O. Box 5519
Vienna, W. Va. 26105 673 4670

MAY 07 1993

MAY 07 1993

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

Well Operator's Report of Well Work

Farm name: WV. PUBLIC LAND CORP. Operator Well No.: H. NOLAND L-16

LOCATION: Elevation: 962' Quadrangle: Centerpoint

District: GREEN County: WETZEL
Latitude: 6,900 Feet South of 39 Deg. 30 Min. 00 Sec.
Longitude 2,500 Feet West of 80 Deg. 40 Min. 00 Sec.

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

Agent: JAMES A. CREWS

Inspector: RANDAL MICK
Permit Issued: 05/03/93
Well work Commenced: 9/22/93
Well work Completed: 10/30/93
Verbal Plugging
Permission granted on: _____
Rotary Cable _____ Rig
Total Depth (feet) 3044
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	216	216	100 Sks.
4 1/2	2933.70	2933.70	300Sks.

OPEN FLOW DATA

Producing formation Gordon Pay zone depth (ft) 2840 - 2896
 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

* Waterflood Producer - Not Tested
 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

Reviewed TMG
Recorded _____

DEC 14 1993

TREATMENT:

PERFORATED: 2687 - 2869 4 Holes
2872 - 2880 16 Holes
2890 - 2892 4 Holes

TREATED: 300 Gal. 15% HCL, 240 Bbl. Gelled Water, & 1500#
80/100, 3500# 20/40 Sand

WELL LOG:

Sand & Shale 0 - 622
Sand 622 - 670
Sand & Shale 670 - 894
Sand 894 - 922
Shale 922 - 1390
Sand 1390 - 1518
Sand & Shale 1518 - 1608
Sand 1608 - 1624
Sand & Shale 1624 - 1708
Sand 1708 - 1714
Sand & Shale 1714 - 1798
Sand 1798 - 1840
Sand & Shale 1840 - 2010
Sand 2010 - 2024
Shale 2024 - 2104
Little Lime 2104 - 2116
Pencil Cave 2116 - 2120
Big Lime 2120 - 2192
Shale 2192 - 2346
Big Injun 2346 - 2430
Sand & Shale 2430 - 2840
Stray 2840 - 2844
Gordon 2844 - 2896

T.D. 3044

DF-44

DF-49

13021

RECEIVED

WV Div. Environmental
FORM WW-2B
APR 15 93

103-1535
Issued 05/03/93
Page 3 of 4
Expires 05/03/95

STATE OF WEST VIRGINIA
DEPARTMENT OF ENERGY, DIVISION OF OIL AND GAS
WELL WORK PERMIT APPLICATION

Permitting
Office of Oil & Gas

- 1) Well Operator: Pennzoil Products Company 37450 (5) 286
- 2) Operator's Well Number: HENRY NOLAND #L-16 3) Elevation: 962'
- 4) Well type: (a) Oil X/ or Gas /
(b) If Gas: Production / Underground Storage /
Deep / Shallow /
- 5) Proposed Target Formation(s): Gordon
- 6) Proposed Total Depth: 2950 feet
- 7) Approximate fresh water strata depths: 142'
- 8) Approximate salt water depths: > 110
- 9) Approximate coal seam depths: 775
- 10) Does land contain coal seams tributary to active mine? Yes / No X/
- 11) Proposed Well Work: Drill & Stimulate New Well
- 12)

CASING AND TUBING PROGRAM

TYPE	SPECIFICATIONS			FOOTAGE INTERVALS		CEMENT
	Size	Grade	Weight per ft.	For drilling	Left in well	Fill-up (cu. ft.)
Conductor						3805R/11.3
Fresh Water	8 5/8	L.S.	20	214	214' 214 OK	Cement to Surface
Coal						3805R/18 1/2
Intermediate						
Production	4 1/2	J-55	10.5	2950	2950	Cement over Salt Sand
Tubing						3805R/18 1/2
Liners						

PACKERS : Kind _____
Sizes _____
Depths set _____

For Division of Oil and Gas Use Only

Fee(s) paid: Well Work Permit Reclamation Fund WPC

Plat WW-9 WW-2B Bond Blanket cover

17091

18907

1) Date: April 13, 1993
2) Operator's well number
HENRY NOLAND #L-16
3) API Well No: 47 - 103 - 1535
State - County - Permit

APR 15 93

Permitting
Office of Oil & Gas

STATE OF WEST VIRGINIA
DEPARTMENT OF ENERGY, DIVISION OF OIL AND GAS

NOTICE AND APPLICATION FOR A WELL WORK PERMIT

INSPECTOR:

4) Surface Owner(s) to be served:
(a) Name WV Public Land Corp.
Address Bldg. #3, Room 643
1900 Kanawha Blvd., E.
(b) Name Charleston, WV 25305
Address _____
(c) Name Dept of Natural Resources
Address 1304 Goose Run Road
Fairmont, WV 26554
ATTN: Gary M. Foster
6) Inspector Randall Mick
Address 111 Blackshere Drive
Mannington, WV 26582
Telephone (304)- 987-3324

5) (a) ~~XXXXXXXXXXXX~~
Name Mike Underwood
Address Rt. #2, Box 135
Salem, WV 26426 (304)782-1043
(b) Coal Owner(s) with Declaration
Name _____
Address _____
Name _____
Address _____
(c) Coal Lessee with Declaration
Name _____
Address _____

TO THE PERSON(S) NAMED ABOVE TAKE NOTICE THAT:

_____ Included is the lease or leases or other continuing contract or contracts by which I hold the right to extract oil and gas OR
X Included is the information required by Chapter 22B, Article 1, Section 8(d) of the Code of West Virginia (see page 2)

I certify that as required under Chapter 22B of the West Virginia Code I have served copies of this notice and application, a location plat, and accompanying documents pages 1 through _____ on the above named parties, by:
_____ Personal Service (Affidavit attached)
X Certified Mail (Postmarked postal receipt attached)
_____ Publication (Notice of Publication attached)

I have read and understand Chapter 22B and 38 CSR 11-18, and I agree to the terms and conditions of any permit issued under this application.
I certify under penalty of law that I have personally examined and am familiar with the information submitted on this application form 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.

Well Operator Pennzoil Products Company
By: Supervisor - Surveying/Mapping
Its: Timothy P. Roush
Address P.O. Box 5519
Vienna, WV 26105
Telephone (304) 422-6565

Subscribed and sworn before me this 13th day of April, 19 93

Joyce M. Board
My commission expires October 24, 1999



OFFICIAL SEAL Notary Public
NOTARY PUBLIC
STATE OF WEST VIRGINIA
JOYCE M. BOARD