

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

Well Operator's Report of Well Work Operator Well No.: H, NOLAND L-17 Farm name: WVA. PUBLIC LAND CORP. LOCATION: Elevation: 925.00 Quadrangle: CENTER POINT District: GREEN County: WETZEL Latitude: 6100 Feet South of 39 Deg. 30Min. Longitude 2300 Feet West of 80 Deg. 40 Min. Sec. Sec. Company: PENNZOIL PRODUCTS COMPANY P. O. BOX 5519 VIENNA, WV 26105-5519 Casing | Used in | Left |Cement | |Fill Up| Tubing | Drilling | in Well|Cu. Ft. Agent: JAMES A. CREWS Size Inspector: RANDAL MICK Permit Issued: 05/12/93 Well work Commenced: 9/8/93 Well work Completed: 10/10/93Verbal Plugging 8 5/8 189 189 100 Sks. Permission granted on:

Rotary X Cable

Total Depth (feet) 3017

Fresh water depths (ft) Rig 2990.77 4 1/2 2990.77 | 300 Sks. Salt water depths (ft) N/A Is coal being mined in area (Y/N)? N Coal Depths (ft): OPEN FLOW DATA Producing formation Gordon Pay zone der Gas: Initial open flow \* MCF/d Oil: Initial open flow in the final open flow Time of open flow between initial and final tests \_Pay zone depth (ft) \_\_2896 - 2960 \* MCF/d Oil: Initial open flow \* Bbl/d

\* MCF/d Final open flow \* Bbl/d

\* MCF/d Final open flow \* Bbl/d Hours Static rock Pressure \_\_psig (surface pressure) after Hours Water Injection Well - Not Tested Second producing formation Second producing formation Pay zone depth (ft)

Gas: Initial open flow MCF/d Oil: Initial open flow Final open flow MCF/d Final open flow 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:	PENNZOI / PRODUCTS COMPANY
	By: finally Ital
	Date: 12/6/93
	=-, -,

## TREATMENT:

Perforated: 2920 - 2922 2925 - 2936 2 Holes Per Foot - 26 Holes

Treated: 300 Gal. 15% HCL Acid, 271 Bbl. Gelled Water &

1500# 80/100 Sand & 3500# 20/40 Sand

## WELL LOG:

Sand & Shale 0 - 580 Sand 580 - 632 Sand & Shale 632 - 1390Sand 1390 - 1520 Sand & Shale 1520 - 1705 Sand 1705 - 1730Shale 1730 - 1812 1812 - 1852 Sand Shale 1852 - 2030Little Lime 2030 - 20462046 - 2060 Pencil Cave 2060 - 2130 Big Lime Big Injun 2130 - 2308 2308 - 2896 Shale 2896 - 2902 Stray Gordon 2902 - 2960

T.D. 3017

DF - 211 DFT- 419

FORM W (Obvers	N-3(B) FILE COPY se)	
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171	APR 1 5 93	
	WV TIRTON I	



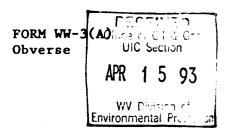
1)	Date: Ap	ril 1	3,		1 40	l
2)	Operator's Well No. HE	NRY NO	LAND	#L-1	7 (5	1
3)	SIC Code					
4	API Well NO.	47 State		03 -	IS 42	2
5.	UIC Permit No.					,

STATE OF WEST VIRGINIA

Environmental Floring OF LIQUID INJECTION OR WASTE DISPOSAL WELL WORK PERMIT APPLICATION DIVISION OF ENVIRONMENTAL PROTECTION, OFFICE OF OIL AND GAS PULS DS 12 195

23) SPECIFICATIONS FOR CATHODIC PROTECTION AND OTHER CORROSION CONTROL:  24) CASING AND TUBING PROGRAM  CASING OR TUBING TYPE Size Grade per ft. New Used For drilling Left in well (Cable feet)  Conductor Fresh water 8 5/8 L.S. 20 X 200 200 Cement to	LOCATION	E: Liquid	injection	_X_ (	Gas inj	ection (	not storage)	/ Waste disposal		•• ·	
WELL OPERATOR Pennzoil Products Co. 37450  Address P.O. Box 5519  Vienna, WV 26105  O) OIL & GAS INSPECTOR TO BE NOTIFIED  Name Randall Mick Mike Underwood  Address 111 Blackshere Dr. Rt. #2. Box 135  Mannington, WV Salem, WV 26426  26582  2) PROPOSED WELL WORK: *Drill X Drill deeper TRedrill Stimulate X  Plug off old formation Perforate new formation Convert Other physical change in well (specify)  Other physical change in well (specify)  Specifications for a catual depth of existing well)  15 Approximate water strata depths; Fresh 105  Approximate water strata depths: Fresh 105  Name Salem W 26426  Address 110 DRILLING CONTRACTOR:  Name Address Address  Address 111 Blackshere Dr. Rt. #2. Box 135  Address 125  Address 125  PROPOSED WELL WORK: *Drill X Drill deeper TRedrill Stimulate X Drill S	POCY 1101	N: Elevati	on:	925'		_	Waters	hed: Piney	7 Fork		<i>&gt;</i>
Address P.O. Box 5519  Vienna, WV 26105  OIL & GAS INSPECTOR TO BE NOTIFIED  Name Randall Mick Mike Underwood  Address 111 Blackshere Dr. Rt. #2. Box 135  Mannington, WV Salem, WV 26426  Address 26582  2) PROPOSED WELL WORK: *Drill X Drill deeper Red of completed well, for actual depth of existing well)  3) GEOLOGICAL TARGET FORMATION, Gordon Depth 2915 feet(top) to 2931 feet(top) and the series of the se								: Wetzel	Quadrangle	:Center	point
Vienna, WV 26105   Vienna, WV 26105	WELL OPE					s Co.	<u>374</u> 50	9) DESIGNAT	TED AGENT _I_A_	Crews	
OIL & GAS INSPECTOR TO BE NOTIFIED  Name Randall Mick Mike Underwood Address 111 Blackshere Dr. Rt. #2. Box 135  Mannington, WV Salem, WV 26426  Address 26582  PROPOSED WELL WORK: *Drill X Drill deeper Redrill Stimulate X  Plug off old formation Perforate new formation Convert Depth physical change in well (specify)  Other physical change in well (specify)  GEOLOGICAL TARGET FORMATION, Gordon Depth 2915 feet((top) to 2931 feet(  Estimated depth of completed well, (or actual depth of existing well) 3015 feet.  Approximate water strata depths; Fresh 105 feet; salt, feet.  Approximate coal seam depths: 750  Is coal being mined in the area? Yes No X  Wirgin reservoir pressure in target formation 1400 psig. Source ESTIMATED  Estimated reservoir fracture pressure 3500 psig (BHFP)  MAXIMUM PROPOSED INJECTION OPERATIONS: Volume per hour: 25 Bottom hole pressure 2380  DETAILED IDENTIFICATION OF MATERIALS TO BE INJECTED, INCLUDING ADDITIVES: Fresh water, produced we bactericides, and other chemicals as necessary to maintain water quality and improve bactericides, and other chemicals as necessary to maintain water quality and improve participles of the property of the proper	Ade							Ad			
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5) APPLICANT'S OPERATING RIGHTS were acquired from Henry & Mary Noland  by deed / lease X / other contract / dated December 7, XX 1894, of reco	MAXIMUI DETAILEI Dacter: FILTERS ( SPECIFIC CASING A ASING OR UBING TYPE Inductor sh water al ermediate induction bing hers	M PROPOS D IDENTIF Icides, IF ANY): _ ATIONS FO AND TUBIN  Star  8 5/8	ED INJECTION AND CATTON	CTION OPNOF MATH	ERATERIAL Nemi Lite	Used	Volume per hour: _ E INJECTED, INCL as necessary nd/or Coal Be ND OTHER CORRO  FOOTAGE IF For drilling  200  3015	psig (BHFP) 25  UDING ADDITIV to maintai d Filters SION CONTROL  ATTERVALS Left in well 200  3015	CEMENT FILLUP OR SACKS (Cable feet)  Cement to Surface  Cement over Salt Sand	PACKE  Kinds  Sizes  Depths set  Perforations:	d water, prove of covery.
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See the reverse side of the APPLICANT'S COPY for instructions to the well operator.



1)	Date	April	13,	1993	
	Operator's				•

2) Well No. HENRY NOLAND #L-17

3) SIC Code

4) API Well No. 47 - 103 -/542 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	7 (i) COAL OPERATOR N/A Address
(i) Name WV Public Land Corp.	20 0 Phys.
Address Bldg. #3, Room 643	7 (ii) COAL OWNER(S) WITH DECLARATION ON RECORD
1900 Kanawha Blvd., E.	
	Name
(ii) Name Charleston, WV 25305	Address
Address	
	7 (iii) COAL LESSEE WITH DECLARATION ON RECORD:
(iii) Name 1304 Goose Run Road	Name
Address Fairmont, WV 26554	Address
ATTN: Gary Foster	
TO THE PERSON(S) NAMED ABOVE. You should have	received this Form and the following documents:
10 THE FERSON(S) NAMED ABOVE: 100 SHOULD Have	received this form and the following documents:
(1) The Application for a Liquid Injection	n or Waste Disposal Well Work Permit on Form
	nvolved in the drilling or other work, and
(2) The plat (surveyor's map) showing the	
	on Form WW-9 (unless the well work is only
	lan for erosion and sediment control and for
reclamation for the site and access re	
reclamation for the site and access to	Jau.
The date proposed for the first injection of	or waste disposal is, 19
THE REASON YOU RECEIVED THESE DOCUMENTS IS THAT	I YOU HAVE RIGHTS REGARDING THE APPLICATION
WHICH ARE SUMMARIZED IN THE "INSTRUCTIONS" ON :	
(FORM WW-3(B)) DESIGNATED FOR YOU. HOWEVER, YO	
CIONEL MA SCRIP DESIGNATED FOR TOO. HOWEVER, IN	JO 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 Divis	sion of Oil and Gas West Virginia Department
of Energy, with respect to a well at the locat:	ion described on the attached Application and
depicted on attached Form Miles Coming of this	Notice the Analysis about the accordance with the
depicted on attached Form WW-6. Copies of this	s Notice, the Application, the plat, and the
Construction and Reclamation Plan have been man	lled by registered or certified mail or deliv-
ered by hand to the person(s) named above (or h	by publication in certain circumstances) on or
before the day of mailing or delivery to the D:	irector.
The person signing this document shall make the	2
following certification:	
"I certify under penalty of law that I have	ve PENNZOIL PRODUCTS COMPANY
personally examined and am familiar with t	
information submitted in this document and	
attachments and that, based on my inquiry	
those individuals immediately responsible	<del>-</del>
obtaining the information, I believe that	
information is true, accurate, and complet	
am aware that there are significant penalt	
submitting false information, including th	16
possibility of fine and imprisonment.	~