

27-May-94 API # 47-103-01635 s

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

Well Operator's Report of Well Work

Farm name: WVA. PUBLIC LANDS

Operator Well No.: H.M.JAMISON Q17

LOCATION:

Elevation: 1,477.00 Quadrangle: CENTER POINT

District: GREEN

GREEN County: WETZEL 4950 Feet South of 39 Deg. 30Min. Latitude: Sec.

Longitude 9400 Feet West	c of 80	Deg. 37 Mi	n. 30 Sec	•
Company:PENNZOIL PRODUCTS COMPANY P. O. BOX 5519 VIENNA, WV 26105-5519	&	Used in		Fill Uni
Agent: JAMES A. CREWS	Tubing	Drilling	in Well	Cu. Ft.
	Size	 	 	То
Inspector: RANDAL MICK Permit Issued: 06/01/94 Well work Commenced: 08/11/94	8-5/8	750	750	surface 310 sks.
Well work Completed: 09/23/94				
Permission granted on: Rotary X Cable Rig Total Depth (feet) 3804' Fresh water depths (ft) N/A	4-1/2	3753	3753 	300 sks.
Salt water depths (ft) N/A				
Is coal being mined in area (Y/N)? N Coal Depths (ft): N/A				   
OPEN FLOW DATA * Water Injection				
Producing formation Gordon  Gas: Initial open flow * MCF, Final open flow * MCF, Time of open flow between in  Static rock Pressurepsice	/d Oil: In /d F:	Pay zone on itial open inal open f	depth (ft) flow*	3648-369 * Bbl/d Bbl/d
Second producing formation  Gas: Initial open flow MCF, Final open flow between in	/d Oil: I	Pay zone onitial open	depth (ft)	Bb1/d
Final open flow MCF,	/d F	inal open f	low	Bbl/d
Static rock Pressurepsic	g (surface	e pressure)	after	Hours
NOTE: ON BACK OF THIS FORM PUT THE INTERVALS, FRACTURING OR STIMULATING LOG WHICH IS A SYSTEMATIC DETAILED INCLUDING COAL ENCOUNTERED BY THE WELD	, PHYSICA GEOLOGICA	AL CHANGE.	ETC. 2).	THE WELL
For: PENNZOLA	PROPUCT	S COMPANY		

Date:

#### **TREATMENT**

Perforated with 20 holes, 3666'-3676'. Treated with 300 gallons 15% HCL acid, 249 barrels gelled water and 8700 lbs. of 20/40 sand

#### WELL LOG

```
Sand & Shale
                0'-1118'
Sand
             1118'-1168'
Sand & Shale 1168'-1391'
Sand
             1391'-1462'
Shale
             1462'-1800'
Sand
             1800'-1846'
Sand & Shale 1846'-1984'
Sand
             1984'-2050'
Sand & Shale 2050'-2382'
Sand
             2382'-2432'
Sand & Shale 2432'-2752'
Sand
             2752'-2772'
Shale
             2772'-2780'
Big Injun
             2780'-2995'
Shale
             2995'-3628'
Stray
             3628'-3632'
Gordon
             3648'-3692'
T.D.
             3804'
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FORM WW-3(B) (Obverse)	FILE COPY
10/91	



	1)	Date:	May	13			19
WEST V	2)	Operator's Well No	н.	M.	JAMI	SON	#Q-1
	3)	SIC Code					
THE P	4	API Well N	10.	47	_ •	103	3 .
				Sta	te	Coun	ty
- initial	5.	<b>UIC Permi</b>	No.				

06/01/94

STATE OF WEST VIRGINIA CYDIA 06/01/9
NOTICE OF LIQUID INJECTION OR WASTE DISPOSAL WELL WORK PERMIT APPLICATION for the

DIVISION OF ENVIRONMENTAL PROTECTION, OFFICE OF OIL AND GAS

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MAY	1	6	94

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	**				Environmental Fi		
6)	WELL TYPE: Liquid injection X Gas injection (not storage)	/ v		٠ ـ ـ ـ ـ ـ ـ ـ ـ ـ ـ ـ ـ ـ ـ ـ ـ ـ ـ ـ			
7)	LOCATION: Elevation: 1477	Watershed:	Piney Fo	rk			
	District: Green	County:	Wetzel	Quadrangle:	Centerpoint		
8)	WELLOPERATOR Pennzoil Products Company 46	90 9	DESIGNATED A	GENT James	A. Crews		
	Address P. O. Box 5519		Address	P. O.	Box 5519		
	Vienna, WV 26105		. 13221	Vienn	a, WV 26105		
10)	Name Mike Underwood	11)	DRILLING CON	TRACTOR:			
	Address Route 2, Box 135		Name				
	Salem, WV 26426		Address				
12)	PROPOSED WELL WORK: Drill Drill deeper NOTE: This well to Plus off old formation/ Perfor be drilled directionally S 19° 20°E 845'		Redrillormation/ Conv				
	S 19° 20° E 845 T Other physical change in well (specify	/)		2/20	2//2		
13)		2520	Depth		p) to 3447 feet (bottom)		
14)		3530	ft.				
15)	Approximate water strata depths; Fresh, 657 feet; sal	lt, 168	54feet.				
16)	Approximate coal seam depths: 1289'						
17)		_					
18)	Virgin reservoir pressure in target formation 1400 psig. Source	e Est	timated				
19)	Estimated reservoir fracture pressure 3500	Р	sig (BHFP)				
20)	MAXIMUM PROPOSED INJECTION OPERATIONS: Volume per h	our:25	sig (BHFP)	Bottom hole pressure	_2332		
21)	DETAILED IDENTIFICATION OF MATERIALS TO BE INJECTED, bactericides and other chemicals as needed	INCLUDIA	NG ADDITIVES: $\overline{\mathbf{F}}$	reshwater,	produced water,		
22)	FILTERS (IF ANY): Cartridge and/or coalbed filt	ters			recovery.		
23)			CONTROL ·				
,							

### 24) CASING AND TUBING PROGRAM

CASING OR	1 .	SPECIFICATIONS					FOOTAGE INTERVALS		NT FILLUP   PACKERS	
TUBING TYPE	Size	Grade	Weight per ft.	New	Used	For drilling	Left is well	OR SACKS (Cubic feet)	1	
Conductor									Kinds	·
Fresh water	8-5/8	LS	20	X		727 <b>'</b>	727	Cement to		
Coal								surface	Sizes	
Intermediate										
Production	4-1/2	J-55	10.5	X		3530 <b>'</b>	3530	Cement over	Depths set	
Tubing								salt sand		·
Liners	1								Perforations:	
			ļ					Тор	Bottom	
				L						
										······································
25) APPLICA	NT'S OPER	RATING	NCHTS w	ere aco	uired fro	m Union Na	tional Bank	of Clarksburg	ξ	

lease X / other contract / dated Wetzel County Clerk's office in October 23 of record in the Lease 58A Book

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



1)	Date	May	13,	1994
	Operat	or's		

2) Well No. H. M. JAMISON #Q-17

3) SIC Code

4) API Well No. 47 - 103 - /635 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
Address
(i) Name WV Public Land Corporation
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
(ii) Name Charleston, WV 25305 Address Address
Dept. of Natural Resources 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:
(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 deliv-
ered 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 PENNZOLL PRODUCTS COMPANY
personally examined and am familiar with the
information submitted in this document and all
attachments and that, based on my inquiry of By Junta Timothy P. Rous
those individuals immediately responsible for
obtaining the information, I believe that the Its Supervisor, Surveying/Mapping
information is true, accurate, and complete. I
am aware that there are significant penalties for Telephone (304) 422-6565

submitting false information, including the

possibility of fine and imprisonment.