

25-may-93

JAN 1 6 1996

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

Permitting Well Operator's Report of Well Work Office of Oil & Gas

Farm name: WADSWORTH, FRANCES & C.I. Operator Well No.: LEMASTERS H-12

LOCATION: Elevation: 1,379.00 Quadrangle: CENTER POINT

District: Latitude:

MCELROY County: TYLER 10800 Feet South of 39 Deg. 30Min. 7200 Feet West of 80 Deg. 40 Min. Longitude Sec. Sec.

Company: PENNZOIL PRODUCTS COMPANY		Deg. 40 Mi	n. Sec	•
P. O. BOX 5519 VIENNA, WV 26105-5519	Casing	Used in	Left	Cement
Agent: JAMES A. CREWS	Tubing	Drilling	   in Well	Fill Up  Cu. Ft.
Inspector: MIKE UNDERWOOD Permit Issued: 05/25/93 Well work Commenced: 07/09/93 Well work Completed: 09/16/93	Size			
Permission granted on: Rotary X Cable	8-5/8"	649'	649'	205 sks.
Fresh water depths (ft) N/A	4-1/2"	3348.65'	3348.65	300 sks.
Salt water depths (ft) N/A  Is coal being mined in area (Y/N)?  Coal Depths (ft):				
Coal Depths (ft): N/A	¥;			
OPEN FLOW DATA (Water Injection Well)				

Static rock Pressurepsig (surface pressure) afterH	-3302 Bbl/ Bbl/ Jour
Final open flow MCF/d Oil: Initial open flow B Time of open flow between initial and final tests H  Static rock Pressure psig (surface pressure)	bl/ bl/ our

NOTE: ON BACK OF THIS FORM PUT THE FOLLOWING: 1). DETAILS OF PERFORATE INTERVALS, FRACTURING OR STIMULATING, PHYSICAL CHANGE, ETC. 2). THE WELLOG WHICH IS A SYSTEMATIC DETAILED GEOLOGICAL RECORD OF ALL FORMATIONS INCLUDING COAL ENCOUNTERED BY THE WELLBORE.

For: PENNZOAL PRODUCTS COMPANY

By: Timothy P. Roush, Supervisor, Surveying/Mapping Date: September 15, 1993

## Treatment

Perforated: Gordon from 3260' - 3276' (32 holes)

 $\ensuremath{\text{w}/290}$  bbls. of gelled water, 1500# 80/100 sand and 3500# 20/40 sand. Treated:

## Well Log

C1 c ct t			
Sand & Shale			660
Shale			834
Sand & Shale	834	_	98.5
Limestone & Shale	985	_	1040
Limestone	1040	_	1086
Shale	1086	_	1200
Limestone	1200	_	1220
Shale	1220	_	1250
Sand & Shale			1475
Shale			1610
Sand			1680
Shale	1680		
Sand & Shale	1835		
Sand	2005		
Shale	2030		
Sand	2180		
Shale Shale	2220		
Little Lime	2385		
Shale	2398		
Blue Monday	2412		
Big Lime	2440		
Big Injun	2490		
Shale	2680		
Gordon			
Total Depth	3235		3302
sepen	3390'		

10/91

WV Division of **Environmental Protection** 

APR 2 7 83

**Permittins** office of Oil & Com

b) WELL TYPE: Liquid injection X Gas injection (not storage)

McElroy

7) LOCATION: Elevation: 1379



2)	Operator's Well No.	A.D.	LEMASTERS	H-INREV
1)	Date:	<u>April</u>	26,	120.

3) SIC Code

4 API Well NO.

State

5. UIC Permit No.

Lefthand Fork

NOTICE OF LIQUID INJECTION OR WASTE DISPOSAL WELL WORK PERMIT APPLICATION por the Expuss OS/25 DIVISION OF ENVIRONMENTAL PROTECTION, OFFICE OF OIL AND GAS

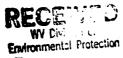
Watershed:

/ Waste disposal\_

STATE OF WEST VIRGINIA

		Distric		Elroy			County	: <u>Tyler</u>	Quadrangle:	<u>Centerpoint</u>	2
8) WELI	L OPER	ATOR E	ennzoi	il Prod	luct	s Co.	<u>3745</u> 0	9) DESIGNAT	ED AGENT J.A.		
•	Addre	τ	.O. Bo	$0 \times 5519$	)	;	1 4 3 m )		iress P.O. Box		
	7			, WV 2		5	- 'y'		Vienna, V		
O) OIL a	GAS II	NSPECT	OR TO R	E NOTIFI	FD	كي	· -				
Name	, ,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	like U	inderwo	ood				II) DRILLING	CONTRACTOR:		
•		Rt. #2	, Box	x 135				•	CONTRACTOR.		-
Auc			WV 2								
•					*		·	Youres _			
	DOCED I		ORK.	DrillX		/ Drill	deeper	7	/ StimulateX	7	
2) PROF	LOSED .	WELL W	OKK:							<u>.                                    </u>	
							on/ Perforate no	w formation	Convert/		
				•	•	_	n well (specify) ordon 419		. 2264	2270	
				MATION,					Depth 3264 feet	(top) to 32/9 feet(b	ottom)
								70 <u></u> t.			
				s; Fresh,_	1100	73	feet; salt,	feet.			
			depths:		1190	-					
17) Is cos	al being i	mined in	the area?	Yes	/ No	X/00					
							_psig. Source	Estimated	<del> </del>		
				sure		500		psig (BHFP)			
									Bottom hole press		
21) DET	AILED I	DENTIF	ICATION	OF MAT	ERIAL	S TO BI	E INJECTED, INCL	UDING ADDITIVE	s: <u>Fresh water</u>	. produced wa	ter,
bacter	ricide	es, an	d othe	er chem	ica:	s as	needed to ma	aintain wate	r quality & i	mprove oil re	cove
22) FILT	ERS (IF	ANY): _	Cartri	ldge Fi	1te	s and	d/or Coal Bed	i Filters		•	
23) SPEC	CIFICAT	IONS FO	OR CATH	ODIC PRO	OTEC	TION AI	ND OTHER CORRO	SION CONTROL:			
									•		
24) CASI	ING AN	D TUBII	NG PROC	JKAM							
•		D TUBII						JTPBUAT 6	1 covers on the	ll sevene	
CASING OF TUBING TO	R H	1	SPEC	IFICATIONS Weight	i	. 1	FOOTAGE II	1	CEMENT FILLAUP OR SACKS	PACKERS	
CASING OF	R H	D TUBI!		IFICATIONS	New	Used	FOOTAGE II	TERVALS Left in well			
CASING OF	YPE	Star	SPEC Grade	IFICATIONS Weight per ft.		Used	For drilling	Left in well	OR SACKS (Cubic feet)	PACKERS  Kinds	
CASING OF	YPE	ı	SPEC	IFICATIONS Weight	New X	Used		1	OR SACES (Cable feet)  Cement to		
CASING O	YPE	Star	SPEC Grade	IFICATIONS Weight per ft.		Used	For drilling	Left in well	OR SACKS (Cubic feet)		
CASING OF TUBING TO Conductor  Fresh water	PYPE 8	Star 3 5/8	SPEC Grade	IFICATIONS Weight per ft.		Used	For drilling	Left in well	OR SACES (Cable feet)  Cement to	Kinds	
CASING OF TUBING TO Conductor  Fresh water  Coal	PYPE 8	Star	SPEC Grade	IFICATIONS Weight per ft.		Used	For drilling	Left in well	OR SACES (Cable feet)  Cement to	Kinds Sizes	
CASING OI TUBING TO Conductor Fresh water Coal	PYPE 8	Star 3 5/8	Grade L.S.	Weight per ft.	X	Used	For drilling	Laft in well 630	OR SACKS (Cuble feet)  Cement to  Surface	Kinds Sizes	
CASING OI TUBING TO Conductor Fresh water Coal Intermediate Production	PYPE 8	Star 3 5/8	Grade L.S.	Weight per ft.	X	Used	For drilling	Laft in well 630	Cement to Surface Cement over	Kinds Sizes	
CASING OI TUBING TO Conductor Fresh water Coal Intermediate Production Tubing	PYPE 8	Star 3 5/8	Grade L.S.	Weight per ft.	X	Used	For drilling	Laft in well 630	Cement to Surface Cement over	Kinds Sizes Depths set	
CASING OI TUBING TO Conductor Fresh water Coal Intermediate Production Tubing	PYPE 8	Star 3 5/8	Grade L.S.	Weight per ft.	X	Used	For drilling	Laft in well 630	Cement to Surface Cement over	Kinds Sizes Depths set Perforations:	m
CASING OF TUBING TO TUBING TO Conductor Fresh water Coal Intermediate Production Tubing Liners	8 8	Star	Grade L.S. J-55	Weight per ft.	X		630 3370	630 3370	Cement to Surface Cement over Salt Sand	Kinds Sizes Depths set Perforations:	m
CASING OF TUBING TO TUBING TO Conductor Fresh water Coal Intermediate Production Tubing Liners	8 8	Star	Grade L.S. J-55	Weight per ft.	X		630 3370	630 3370	Cement to Surface Cement over Salt Sand	Kinds Sizes Depths set Perforations:	m
CASING OF TUBING TO TUBING TO Conductor Fresh water Coal Intermediate Production Tubing Liners	YPE 8	\$ 5/8 1/2	Grade L.S. J-55	Weight per ft.	X X	uired fro	For drilling 630 3370 Stringtown	630 3370	Cement to Surface Cement over	Kinds  Sizes  Depths set  Perforations:  Top Botto	
TUBING TO Conductor Fresh water Coal Intermediate Production Tubing Liners	YPE 8	\$ 5/8 1/2	Grade L.S. J-55	20  10.5  RIGHTS we're continued to the recommendation of the reco	X X ere acq	uired fro	For drilling 630 3370 Stringtown	630 3370 Unit #1 Ro	Cement to Surface Cement over Salt Sand	Kinds Sizes Depths set Perforations:	

FORM WW-3(A) Olverse



MPR 2 7 93

1)	Date_	April	. 26,	1993	,	4
	Opera	tor's				
2)	Well	No. A.	D. T.	EMASTI	ZRS	

Well No. A.D. LEMASTERS 3) SIC Code

Telephone (304) 422-6565

-1535 4) API Well No. 47

State County Permi

# Permitting

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.

### STATE OF WEST VIRGINIA

NOTICE OF LIQUID INJECTION OR WASTE DISPOSAL WELL WORK PERMIT APPLICATION for the

DIVISI	ON OF OIL AND GAS, DEPARTMENT OF ENER	RGY
6) SURFACE OWNER(S) OF RECORD TO	O BE SERVED , 7 (i) COAL OPERATORAddress	N/A
(i) Name Frances & C.I. Wad	sworth	
Address Alvy, WV 26322	7 (ii) COAL OWNER(S) W	ITH DECLARATION ON RECOR
(ii) Name	Address	
Address		
		H DECLARATION ON RECORD:
( ) >*		a beamailton on alcom:
(111) NameAddress		
TO THE PERSON(S) NAMED ABOVE: You	ou should have received this Form and	the following documents
WW-3(B), which sets out (2) The plat (surveyor's mag (3) The Construction and Rec	iquid Injection or Waste Disposal Wel the parties involved in the drilling p) showing the well location on Form clamation Plan on Form WW-9 (unless to sets out the plan for erosion and sed e and access road.	or other work, and WW-6; and he well work is only
The date proposed for the fir	rst injection or waste disposal is	
WHICH ARE SUMMARIZED IN THE "INS:	CUMENTS IS THAT YOU HAVE RIGHTS REGAR TRUCTIONS" ON THE REVERSE SIDE OF THE U. HOWEVER, YOU ARE NOT REQUIRED TO	COPY OF THE APPLICATION
proposes to file or has filed the Well Work Permit with the Director of Energy, with respect to a well depicted on attached Form WW-6. Construction and Reclamation Plan	2B of the West Virginia Code, the undis Notice and Application and accompanion of the Division of Oil and Gas, Well at the location described on the at Copies of this Notice, the Application have been mailed by registered or comed above (or by publication in certainery to the Director.	nying documents for a st Virginia Department tached Application and on, the plat, and the ertified mail or deliv-
The person signing this document following certification:	shall make the	
"I certify under penalty of	law that I have Pennzoil Prod	ucte Company
personally examined and am		
information submitted in the attachments and that, based	is document and all	operator LAC
those individuals immediate		Roush
obtaining the information, I	I believe that the Its_Superviso	r - Surveying/Mapping