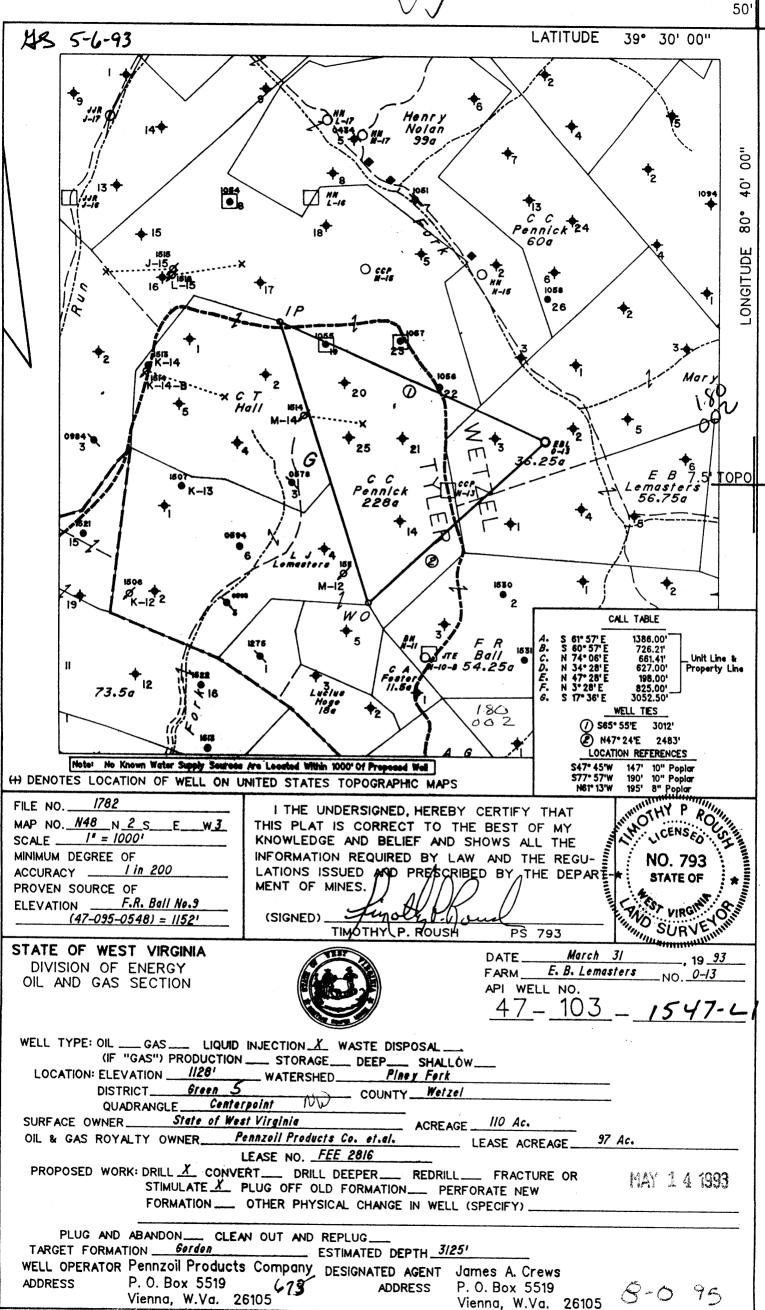
9450



Vienna, W.Va. 26105

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

Well Operator's Report of Well Work

Operator Well No.: LEMASTERS 0-13 Farm name: WVA. PUBLIC LAND CORP. LOCATION: Elevation: 1,128.00 Quadrangle: CENTER POINT District: GREEN County: WETZEL 6450 Feet South of 39 Deg. 30Min. 50 Feet West of 80 Deg. 40 Min. Latitude: Longitude Deg. 40 Min. Sec. Company: PENNZOIL PRODUCTS COMPANY P. O. BOX 5519 VIENNA, WV 26105-5519 Casing | Used in Left |Cement | æ |Fill Up| Drilling | Tubing | in Well|Cu. Ft.| Agent: JAMES A. CREWS Size To surface Inspector: RANDAL MICK Permit Issued: 05/12/93 8-5/8 3891 3891 50 sks. Well work Commenced: Well work Completed: 09/16/93 06/02/94 Verbal Plugging Permission granted on: Rotary X Cable Total Depth (feet) Riq Fresh water depths (ft) 4-1/2 3128' 3128' 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 WELL Producing formation Gordon Pay zone depth (ft) 3027'-3058' Gas: Initial open flow_______Final open flow______ MCF/d Oil: Initial open flow Bbl/d Final open flow _ MCF/d Bbl/d Time of open flow between initial and final tests Hours Static rock Pressure psig (surface pressure) after Second producing formation

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.

MCF/d

Time of open flow between initial and final tests

Final open flow

Static rock Pressure

For: PENNZOIE PRODUCTS COMPANY JUL 1 5 1994 By: Date:

psig (surface pressure) after

Final open flow

Bbl/d

Hours

Hours

TREATMENT

Perforated: Gordon with 22 holes 3043' - 3054'.

Treated with 300 gal. 15% HCL, 322 bbls. gelled water,

and 7000# 20/40 sand.

WELL LOG

Sand & Shale	0 - 1608'
Sand	1608 - 1640
Shale	1640 - 1725
Sand	1725 - 1770
Sand & Shale	1770 - 2178
Big Injun	2178 - 2445
Shale	2445 - 2798
Berea	2798 - 2809
Shale	2809 - 3005
Stray	3005 - 3027
Gordon	3027 - 3058
T.D.	3163

48/11

FORM, WW-3(B) (Obverse)	FILE COPY
10/91	

RECEIVED
Chica of Cl & Gas
UIC Section



1)	Date: Apr	11 13,		_, 19_93
2)	Operator's Well No. E.	B. LEMA	STERS	# 0-13
3)	SIC Code			
4	API Well NO.	47 .	103	- 1547-L
		State	County	Permit

Issued 05/12/93

STATE OF WEST VIRGINIA

NOTICE OF LIQUID INJECTION OR WASTE DISPOSAL WELL WORK PERMIT APPLICATION

for the

DIVISION OF ENVIRONMENTAL PROTECTION, OFFICE OF OIL AND GAS

) WELL TYP	PE: Liquid	·	-	Gas inj	ection (not storage)	∠/ Waste disposa	u/	
) LOCATION	N: Eleva	tion:	1128'			Water	shed: Piney	Z Fork	28
	Distri		Green				y: Wetzel	Quadrangle	: Centerpoint
) WELL OPE	ERATOR				s Co	<u>mpany</u> 37450	9) DESIGNA	TED AGENT J.A.	Crews
Ad	ldress		Box 551				A	ddress P.O. Box	5519
		Vienna	a, WV	2610	<u> </u>		• •	Vienna.	WV 26105
OIL & GAS			E NOTIF		Mike	Underwood	II) DRILLIN	G CONTRACTOR:	
Address .	<u> 111-B:</u>	lacksh:	ire Dr.		Rt.	<u>2. Box 135</u>	Name		
		ngton.	WV -		Sale	n. WV 26426	Address		
	26582		• /	_			•		
) PROPOSE	D WELL V	VORK:	Drill	<u> </u>	/ Drill	deeper		/ Stimulate	X
			Plug of	f old	formation	on/ Perforale i	new formation/	Convert_/	
			•	-	_	n well (specify)			
) GEOLOGI	CAL TAR	GET FOR	MATION,		Go			Depth 3023 feet	(top) to 3038feet (bottom)
						isting well)3	125 ft.		
) Approxima	ate water st	rata depth	s; Fresh,	30	8	feet; salt,	feet		
) Approxima	ate coal sear	n depths:			940				····
) Is coal beir	ng mined in	the area?	Yes	/ No.	X				
) Virgin reser	rvoir pressu	re in targe	t formation	n	1400	_psig. Source	ESTIMATED		
3) Virgin reser	-	_					ESTIMATEDpsig (BHFP)		
B) Virgin reser D) Estimated r	reservoir fra	cture pres	sure		350	00	psig (BHFP)	Bottom hole press	ure2380
Virgin reser Estimated r MAXIMUI DETAILEI	reservoir fra M PROPOS D IDENTII	acture press SED INJECTION	sure CTION OF N OF MAT	PERAT ERIAL	35(IONS: .s to bi	Volume per hour:	psig (BHFP) 25 LUDING ADDITIV	VES: Fresh wate	r. produced water.
 Virgin reser Estimated r MAXIMUI DETAILEI bacter 	reservoir fra M PROPOS D IDENTIF icides	SED INJECTION and ot	sure CTION OF NOF MAT Ther ch	PERAT ERIAL nemic	35(TIONS: S TO BI als a	OO Volume per hour: EINJECTED, INCL S necessary	psig (BHFP) 25 LUDING ADDITIV	VES: <u>Fresh wate</u> n water qualit	r. produced water, y & improve oil
B) Virgin reser D) Estimated r D) MAXIMUI DETAILEI bacter D) FILTERS (reservoir fra M PROPOS D IDENTIF icides (IF ANY):	SED INJECTION AND OT Carts Carts	sure CTION OF N OF MAT ther ch ridge F	PERAT ERIAL nemic	35(NONS: STOBE als a	OO Volume per hour: EINJECTED, INCL S necessary	psig (BHFP) 25 LUDING ADDITIVE to maintaid Filters	ves: <u>Fresh wate</u> n water qualit	r. produced water, y & improve oil
8) Virgin reser 9) Estimated r 10) MAXIMUI 11) DETAILEI 12) FILTERS (reservoir fra M PROPOS D IDENTIF icides (IF ANY): _ ATIONS F	SED INJECTION and ot Cartr OR CATH	sureCTION OF MATCher ch	PERAT ERIAL nemic	35(NONS: STOBE als a	Volume per hour: INJECTED, INCI as necessary	psig (BHFP) 25 LUDING ADDITIVE to maintaid Filters	ves: <u>Fresh wate</u> n water qualit	r. produced water, y & improve oil
8) Virgin reset 9) Estimated r 10) MAXIMUI 11) DETAILE bacter 12) FILTERS (13) SPECIFIC	reservoir fra M PROPOS D IDENTIF icides (IF ANY): _ ATIONS F	SED INJECTION and ot Cartron CATH	sureCTION OF MATCher ch	PERAT ERIAL nemic	35(NONS: STOBE als a	Volume per hour: EINJECTED, INCI AS necessary I/or Coal Be	psig (BHFP) 25 LUDING ADDITIVE to maintaid Filters	ves: <u>Fresh wate</u> n water qualit	r. produced water, y & improve oil
i) Virgin reset ii) Estimated r iii) MAXIMUI i) DETAILE bacter iii) SPECIFIC iii) CASING A CASING OR TUBING TYPE	reservoir fra M PROPOS D IDENTIF icides (IF ANY): _ ATIONS F	SED INJECTION and ot Cartron OR CATH	CTION OF MATCHER Cheridge FOODIC PROGRAM IFICATIONS Weight	PERATERIAL NEMICOTECT	35(CIONS: STO BE als a r and	Volume per hour: EINJECTED, INCI AS necessary I/or Coal Be ND OTHER CORRO	psig (BHFP) 25 LUDING ADDITIV to maintai d Filters OSION CONTROL	VES: Fresh waten water qualit	r, produced water, y & improve oil recovery.
b) Virgin reset b) Estimated r c) MAXIMUI c) DETAILEI c) DETAILEI c) FILTERS (c) SPECIFIC c) CASING A casing or custom or conductor	reservoir fra M PROPOS D IDENTIF icides (IF ANY): _ ATIONS F	SED INJECTION and ot Cartron OR CATH	CTION OF MATCHER Cheridge FOODIC PROGRAM IFICATIONS Weight	PERATERIAL NEMICOTECT	35(CIONS: STO BE als a r and	Volume per hour: EINJECTED, INCI AS NECESSARY I/OR COAL BE ND OTHER CORRO FOOTAGE For drilling	psig (BHFP) 25 LUDING ADDITIV to maintai d Filters OSION CONTROL	CEMENT FILLUP OR SACKS (Cabbe feet)	r, produced water, y & improve oil recovery. PACKERS
b) Virgin reset c) Estimated r d) MAXIMUI d) DETAILEI bacter e) PILTERS (d) SPECIFIC d) CASING A CASING OR TUBING TYPE conductor ceth water	M PROPOS D IDENTIF icides (IF ANY): _ ATIONS F	SED INJECTION and ot Cartron OR CATH	CTION OF MATCHER Ch CHOP Ch CHOP CH CODIC PRODIC PRO GRAM IFICATIONS Weight per ft.	PERATERIAL Nemic 11te	35(CIONS: STO BE als a r and	Volume per hour: EINJECTED, INCI AS necessary I/or Coal Be ND OTHER CORRO	psig (BHFP) 25 LUDING ADDITIV to maintai d Filters OSION CONTROL	CEMENT FILLUP OR SACKS (Cebk feet) Cement to	r, produced water, y & improve oil recovery. PACKERS
i) Virgin reset i) Estimated r ii) MAXIMUI i) DETAILEI bacter ii) SPECIFIC ii) CASING A CASING OR TUBING TYPE conductor cesh water coel	M PROPOS D IDENTIF icides (IF ANY): _ ATIONS F	SED INJECTION and ot Cartron OR CATH	CTION OF MATCHER Ch CHOP Ch CHOP CH CODIC PRODIC PRO GRAM IFICATIONS Weight per ft.	PERATERIAL Nemic 11te	35(CIONS: STO BE als a r and	Volume per hour: EINJECTED, INCI AS NECESSARY I/OR COAL BE ND OTHER CORRO FOOTAGE For drilling	psig (BHFP) 25 LUDING ADDITIV to maintai d Filters OSION CONTROL	CEMENT FILLUP OR SACKS (Cabbe feet)	r, produced water, y & improve oil recovery. PACKERS
D) Virgin reset D) Estimated r D) MAXIMUI DETAILEI bacter D) FILTERS (D) SPECIFIC CASING A CASING OR	reservoir fra M PROPOS D IDENTIF icides (IF ANY): _ CATIONS F AND TUBI Star 8 5/8	SED INJECTION and ot Cartron OR CATH	CTION OF MATCHER Cheridge FOODIC PROGRAM IFICATIONS Weight per ft. 20	PERATERIAL DEMIC	35(CIONS: STO BE als a r and	Volume per hour: EINJECTED, INCI AS necessary I/or Coal Be ND OTHER CORRO FOOTAGE For drilling 380	psig (BHFP) 25 LUDING ADDITIV to maintaid d Filters OSION CONTROL INTERVALS Left in well 380	CEMENT FILLUP OR SACKS (Cobbe feet) Cement to Surface	PACKERS Kinds Sizes
casing or trubing type onductor restricted water on the conductor of the conduction	reservoir fra M PROPOS D IDENTIF icides (IF ANY): _ CATIONS F AND TUBI Star 8 5/8	SED INJECTION and ot Cartron OR CATH	CTION OF MATCHER Cheridge FOODIC PROGRAM IFICATIONS Weight per ft. 20	PERATERIAL DEMIC	35(CIONS: STO BE als a r and	Volume per hour: EINJECTED, INCI AS NECESSARY I/OR COAL BE ND OTHER CORRO FOOTAGE For drilling	psig (BHFP) 25 LUDING ADDITIV to maintai d Filters OSION CONTROL	CEMENT FILLUP OR SACKS (Cubic feet) Cement to Surface Cement over	r, produced water, y & improve oil recovery. PACKERS
b) Virgin reset b) Estimated r c) MAXIMUI c) DETAILE bacter c) FILTERS (d) SPECIFIC c) CASING A CASING OR TUBING TYPE conductor resh water coal intermediate reduction	reservoir fra M PROPOS D IDENTIF icides (IF ANY): _ CATIONS F AND TUBI Star 8 5/8	SED INJECTION and ot Cartron OR CATH	CTION OF MATCHER Cheridge FOODIC PROGRAM IFICATIONS Weight per ft. 20	PERATERIAL DEMIC	35(CIONS: STO BE als a r and	Volume per hour: EINJECTED, INCI AS necessary I/or Coal Be ND OTHER CORRO FOOTAGE For drilling 380	psig (BHFP) 25 LUDING ADDITIV to maintaid d Filters OSION CONTROL INTERVALS Left in well 380	CEMENT FILLUP OR SACKS (Cobbe feet) Cement to Surface	PACKERS Kinds Sizes
b) Virgin reset b) Estimated r c) MAXIMUI c) DETAILE bacter c) FILTERS (d) SPECIFIC c) CASING A CASING OR TUBING TYPE conductor resh water coal intermediate reduction	reservoir fra M PROPOS D IDENTIF icides (IF ANY): _ CATIONS F AND TUBI Star 8 5/8	SED INJECTION and ot Cartron OR CATH	CTION OF MATCHER Cheridge FOODIC PROGRAM IFICATIONS Weight per ft. 20	PERATERIAL DEMIC	35(CIONS: STO BE als a r and	Volume per hour: EINJECTED, INCI AS necessary I/or Coal Be ND OTHER CORRO FOOTAGE For drilling 380	psig (BHFP) 25 LUDING ADDITIV to maintaid d Filters OSION CONTROL INTERVALS Left in well 380	CEMENT FILLUP OR SACKS (Cubic feet) Cement to Surface Cement over	Perforations:
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S) Virgin reset D) Estimated r D) MAXIMUI DETAILE bacter C) FILTERS (D) SPECIFIC CASING OR TUBING TYPE Onductor resh water oel	reservoir fra M PROPOS D IDENTIF icides (IF ANY): _ CATIONS F AND TUBI Star 8 5/8	SED INJECTION and ot Cartron OR CATH	CTION OF MATCHER Cheridge FOODIC PROGRAM IFICATIONS Weight per ft. 20	PERATERIAL DEMIC	35(CIONS: STO BE als a r and	Volume per hour: EINJECTED, INCI AS necessary I/or Coal Be ND OTHER CORRO FOOTAGE For drilling 380	psig (BHFP) 25 LUDING ADDITIV to maintaid d Filters OSION CONTROL INTERVALS Left in well 380	CEMENT FILLUP OR SACKS (Cubic feet) Cement to Surface Cement over	Perforations:
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FORM WW-3(A) Obverse



Date April

Operator's 2) E.B.

Well No. SIC Code

4) API Well No. 47 103

State County Permit

LEMASTERS

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) SUR	FACE OWNE	R(S) OF RECORD TO BE SERVED	7 (i)	COAL OPERATOR Address	N/A	
(i)		Public Land Corp. Bldg. #3, Room 643 1900 Kanawha Blvd., E.	7 (ii)		WITH DECLARATION ON RECO	ORD
(ii)	Name	Charleston, WV 25305		Address		
	Address_					
(iii)	Name -	Dept. Natural Resources 1304 Goose Run Road	7 (iii)	COAL LESSEE WI	ITH DECLARATION ON RECOR	D:
• •		Fairmont, WV 26554		Address		
		ATTN: Gary Foster				
	The pla The Con to plug reclama date pro	, which sets out the parties t (surveyor's map) showing t struction and Reclamation Pl a well), which sets out the tion for the site and access posed for the first injection	the well lan on Form plan for s road.	ocation on Form WW-9 (unless erosion and se	n WW-6; and the well work is only ediment control and for, 19	_•
WHICH A	RE SUMMAR	ECEIVED THESE DOCUMENTS IS T IZED IN THE "INSTRUCTIONS" (ESIGNATED FOR YOU. HOWEVER,	ON THE REV	ERSE SIDE OF TI	HE COPY OF THE APPLICATION	
propose	s to file	under Chapter 22B of the We or has filed this Notice ar with the Director of the Di	nd Applica ivision of	tion and accomp Oil and Gas, N	panying documents for a	

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. am aware that there are significant penalties for Telephone (304) 422-6565 submitting false information, including the possibility of fine and imprisonment.

PENNZOIL PRODUCTS COMPANY

Timothy JP. Roush

Its Supervisor - Surveying/Mapping