

Farm name: WVA. PUBLIC LANDS

Operator Well No.: M.LEMASTERS-P14

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

Well Operator's Report of Well Work

LOCATION	: Elevation:	1,038.00 Qua	drangle: CE	ENTER POINT		
	District:	CDEEN	0.			
	DISCITCU:	GREEN FOOT CO	+h of 30	ounty: WETZI	SL Coo	
	Longitude:	8550 Feet So 10600 Feet We	et of 90	Deg. 30Min	Sec.	
	Dongreude	10000 reet we	SC OI OU	Deg. 37 MI	1. 30 Sec	•
	PENNZOIL PRODU					
	P. O. BOX 5519		Casing	Used in	Left	Cement
· ·	VIENNA, WV 26	105-5519	&			Fill Up
3	7. VEG		Tubing	Drilling	in Well	Cu. Ft.
Agent:	JAMES A. CREWS		Cina			
Inchesto	DANDAI MICE		Size			To
Permit T	r: RANDAL MICK ssued:	05/12/94	8-5/8	308	308	150 sks.
	k Commenced:	03/14/34		ĺ		1
	k Commenced:				 I	
Verbal P		0)/10/)4		 	! !	!
	on granted on:			! 	! 	! !
	X Cable	Rig		I	i	1
Total De	pth (feet)	3089	4-1/2	3023	3023	300 sks.
	ter depths (ft		i		' 	
	•		İ	I		ıi
Salt wat	er depths (ft)	N/A			İ	i į
Ts coal	being mined in	area (V/N)2 v		 1	 !	
	ths (ft):	N/A	-	1		
cour bep	CIID (1C)	N/A	-	 	 	!
OPEN FLO	W DATA	* Water Injection	on Well			'
Pro	ducing formati	onGordon		Pay zone	depth (ft) 2941-2982
Gas	: Initial open	flow*_MC	CF/d Oil: In	nitial open	flow *	Bb1/d
	Final open f	low* MC	CF/d F:	inal open f	low *	Bbl/d
	Time of open	flow between	initial and	d final tes	ts	Hours
Sta	tic rock Press	ureps	sig (surface	e pressure)	after	Hours
		c		_		
	ond producing	formation		_ Pay zone	depth (ft	
	: Initial open	I TOW MC	re/d Oll: II	nitial open	irow	Bb1/d
	Final open f	flow between	.r/u r. initial and	d final too	TOW	Bbl/d
Sta	tic rock Press	ire netween	iniciai and	a rinai tes	a fter	Hours Hours
564	cro rook rress	u.cp	sig (Surface	e pressure/	arcer	nours
NOTE: ON	BACK OF THIS	FORM PUT THE	FOLLOWING	G: 1). DET.	AILS OF P	ERFORATED
INTERVAL	S, FRACTURING	OR STIMULATIN	NG, PHYSICA	AL CHANGE,	ETC. 2).	THE WELL
LOG WHIC	H IS A SYSTE	MATIC DETAILED	GEOLOGICA	AL RECORD	OF ALL FO	RMATIONS,
INCLUDIN	G COAL ENCOUNT	ERED BY THE WE	ELLBORE.			·
		_				
		For: PENNZ	PROPUCT	COMPANY		
		Rv.	Land U. U.			

TREATMENT

Perforated with 20 holes 2956'-2966'. Treated with 300 gallons 15% HCL acid, 273 barrels gelled water & 7000# 20/40 sand.

WELL LOG

Sand & Shale	0'- 968'
Sand	968'- 988'
Sand & Shale	988'-1762'
Sand	1762'-1796'
Sand & Shale	1796'-2092'
Little Lime	2092'-2104'
Shale	2104'-2120
Big Lime	2120'-2182'
Shale	2182'-2216'
Big Injun	2216'-2356'
Shale	2356'-2922'
Stray	2922'-2924'
Gordon	2941'-2982'
T.D.	3089'

FORM WW-3(B) (Obverse)	FILE COPY
10/01	

10/91

1) Date:	April :	21	, 1994_
2) Operator's Man	ry Lema	sters #P	-14
3) SIC Code			
4 API Well NO.	47	. 103	1626-LI
	State	County	Permit
5. UIC Permit No.			

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

STATE OF WEST VIRGINIA

NOTICE OF LIQUID INJECTION OR WASTE DISPOSAL WELL WORK PERMIT APPLICATION

for the

DIVISION OF ENVIRONMENT. DIVISION OF ENVIRONMENTAL PROTECTION, OFFICE OF OIL AND GAS CKP NOS OS/12/96

-,	PE: Liquid		$\frac{\Delta}{301}$	Gas injec	tion (ot storage)	Dinor			_
7) LOCATIO		C=	38'		-5	Water	Fot zol		. Centerpoint	IJ
	Distric	l	een	duata	Com	Count		Quadrangle	c A Crows	
· ·		P A	Box 55	10	COL	pany4670		TED AGENT Jame	. Box 5519	
A	JULIUS	Vienna		26105			Ad		na, WV 26105	
								- VICII	10, 11 20105	
0) OIL & GA			E NOTIFI Inderwo				III DRILLING	CONTRACTOR:		
Name			2, Box				Name	CONTRACTOR.		
Address		Salem,		6426			Address .		· · · · · · · · · · · · · · · · · · ·	
							Audi ess.			
2) PROPOS	ED WELL W	ORK:	Drill	Х ,	Drill	deeper	Redrill	Stimulate_X	/	
12, 1 KO: 03.		O		old fo		n/ Perforale n				
			•			well (specify)				
13) GEOLOG	ICAL TARG	ET FORM				419		Depth 2918 fee	et(top) to 2933 feet(b	ottom)
14) Estimated	depth of cor	noleted we	ell. (or act	ual depti	h of ex	isting well) 301	8ft.	•	,	·
15) Approxim	ate water str	ata depths	: Fresh	218		feet; salt,	1245 feet.			
16) Approxim	ate coal seam	depths:	850 °							
	ing mined in			No_X	<u>_</u> /					
.,		e in target	formation	1400)	_psig. SourceE	ctimated			
Virgin res	ervoir pressur	C III (TI KC)	I O I III A LION			_psig. Source	SCIMACEG			
18) Virgin res	ervoir pressur reservoir frac	cture press	350	0		_psig. Source				
19) Estimated	reservoir fra	cture press	TION OF	EP A TI	ONS:	Volume per hour:	psig (BHFP) 25	Bottom hole pres	sure 2332	
19) Estimated 20) MAXIMU 21) DETAILI bacter	reservoir frac JM PROPOS ED IDENTIF icides a	cture press ED INJEC ICATION Ind oth	TION OF OF MATI	PERATION ERIALS	ONS: TO BE	Volume per hour:	psig (BHFP) 25	Bottom hole pres ES: Freshwater ter quality a	, produced wat	er,
19) Estimated 20) MAXIMU 21) DETAILI bacter	reservoir frac JM PROPOS ED IDENTIF icides a	cture press ED INJEC ICATION Ind oth	TION OF OF MATI	PERATION ERIALS	ONS: TO BE	Volume per hour:	psig (BHFP) 25	_{FS.} Freshwater	sure 2332 , produced wat nd improve oil	
19) Estimated 20) MAXIMU 21) DETAILU bacter 22) FILTERS	reservoir frac JM PROPOS ED IDENTIF icides a (IF ANY): _	eture press ED INJEC ICATION and oth Cartri	TION OF MATINET che	ERATION CONTROL CONTRO	ONS: TO BE Ls as	Volume per hour: INJECTED, INCI s needed to ed filters	psig (BHFP) 25 LUDING ADDITIV maintain wa	ES: Freshwater ter quality a	, produced wat nd improve oil	
19) Estimated 20) MAXIMU 21) DETAILU bacter 22) FILTERS	reservoir frac JM PROPOS ED IDENTIF icides a (IF ANY): _	eture press ED INJEC ICATION and oth Cartri	TION OF MATINET che	ERATION CONTROL CONTRO	ONS: TO BE Ls as	Volume per hour:	psig (BHFP) 25 LUDING ADDITIV maintain wa	ES: Freshwater ter quality a	, produced wat nd improve oil	
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19) Estimated 20) MAXIMU 21) DETAILI bacter 22) PILTERS 23) SPECIFIC 24) CASING CASING OR TUBING TIPE Conductor	reservoir fraum PROPOS ED IDENTIF icides a (IF ANY): CATIONS FO	eture press ED INJEC ICATION ICATION CATTTI OR CATH	CTION OF OF MATI OF Che Ldge &/ ODIC PRO GRAM GRAM GRATIONS Weight	PERATION OF CO	ONS: TO BE Ls as Dalbe	Volume per hour: INJECTED, INCI s needed to ed filters ND OTHER CORRO	psig (BHFP) 25 UDING ADDITIV maintain wa OSION CONTROL	cement fillup or sacks	nd improve oil recove	
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19) Estimated 20) MAXIMU 21) DETAILI bacter 22) FILTERS 23) SPECIFIC 24) CASING CASING OR TUBING TIPE Conductor Fresh water	reservoir fraum PROPOS ED IDENTIF icides a (IF ANY): CATIONS FO	cture press ED INJEC ICATION IND OTH CATTI OR CATH	CTION OP OF MATI er che dge &/ ODIC PRO FRAM FRAM FRATIONS Weight per h.	PERATION OF CO	ONS: TO BE Ls as Dalbe	Volume per hour: INJECTED, INCI s needed to ed filters ND OTHER CORRO FOOTAGE For drilling	psig (BHFP) 25 UDING ADDITIV maintain wa OSION CONTROL INTERVALS Left in well	CEMENT FILLUP OR SACKS (Cabbe feet) Cement to	nd improve oil recove	
19) Estimated 20) MAXIMU 21) DETAILI bacter 22) FILTERS 23) SPECIFIC 24) CASING CASING OR TUBING TIPE Conductor Fresh water Coal	reservoir fraum PROPOS ED IDENTIF icides a (IF ANY): CATIONS FO	cture press ED INJEC ICATION IND OTH CATTI OR CATH	TION OF MATHER Che Cdge &/ ODIC PROFITATIONS Weight per h.	PERATION OF CONTECTION New X	ONS: TO BE Ls as Dalbe	Volume per hour: INJECTED, INCI s needed to ed filters ND OTHER CORRO FOOTAGE For drilling	psig (BHFP) 25 UDING ADDITIV maintain wa OSION CONTROL INTERVALS Left in well	CEMENT FILLUP OR SACKS (Cabbe feet) Cement to	produced war nd improve oil recove **ACKERS** Kinds** Sizes	
19) Estimated 20) MAXIMU 21) DETAILI bacter 22) PILTERS 23) SPECIFIC 24) CASING CASING OR TUBING TYPE Conductor Fresh water Coal Intermediate	reservoir fraudin PROPOS ED IDENTIFICATIONS FOR AND TUBIN Star 8-5/8	cture press ED INJEC ICATION IND OTH CATTI OR CATH	TION OF MATHER Che Cdge &/ ODIC PROFITATIONS Weight per h.	PERATION OF CONTECTION New X	ONS: TO BE Ls as Dalbe	Volume per hour: INJECTED, INCI needed to ed filters ND OTHER CORRE FOOTAGE For drilling	psig (BHFP) 25 LUDING ADDITIV maintain wa OSION CONTROL INTERVALS Left is well 288	CEMENT FILLUP OR SACKS (Cabbe feet) Cement to surface	produced war nd improve oil recove **ACKERS** Kinds** Sizes	
19) Estimated 20) MAXIMI 21) DETAILI bacter 22) FILTERS 23) SPECIFIC 24) CASING CASING OR TUBING TIPE Conductor Fresh water Coal Intermediate Production	reservoir fraudin PROPOS ED IDENTIFICATIONS FOR AND TUBIN Star 8-5/8	cture press ED INJEC ICATION IND OTH CATTI OR CATH	TION OF MATHER Che Cdge &/ ODIC PROFITATIONS Weight per h.	PERATION OF CONTECTION New X	ONS: TO BE Ls as Dalbe	Volume per hour: INJECTED, INCI needed to ed filters ND OTHER CORRE FOOTAGE For drilling	psig (BHFP) 25 LUDING ADDITIV maintain wa OSION CONTROL INTERVALS Left is well 288	Cement to surface Cement over	produced war nd improve oil recove **ACKERS** Kinds** Sizes	
19) Estimated 20) MAXIMI 21) DETAILI bacter 22) FILTERS 23) SPECIFIC 24) CASING CASING OR TUBING TIPE Conductor Fresh water Coal Intermediate Production Tubing	reservoir fraudin PROPOS ED IDENTIFICATIONS FOR AND TUBIN Star 8-5/8	cture press ED INJEC ICATION IND OTH CATTI OR CATH	TION OF MATHER Che Cdge &/ ODIC PROFITATIONS Weight per h.	PERATION OF CONTECTION New X	ONS: TO BE Ls as Dalbe	Volume per hour: INJECTED, INCI needed to ed filters ND OTHER CORRE FOOTAGE For drilling	psig (BHFP) 25 LUDING ADDITIV maintain wa OSION CONTROL INTERVALS Left is well 288	Cement to surface Cement over	Tecove PACKERS Kinds Sizes Depths set	ery.
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19) Estimated 20) MAXIMU 21) DETAILI bacter 22) FILTERS 23) SPECIFIC 24) CASING CASING OR TUBING TYPE Conductor Fresh water Coal Intermediate Production Tubing Liners	reservoir frauding PROPOS ED IDENTIFICATIONS FOR AND TUBIN Star 8-5/8 4-1/2	cture press ED INJEC ICATION IND OTH CATTI OR CATH	CTION OF MATHER Che Che Che Che Che Che Che Che Che Che	PERATION OF CONTECTION New X	ONS: TO BE LS as Dalbe ON AN	Volume per hour: INJECTED, INCI needed to ed filters ND OTHER CORRE FOOTAGE For drilling 288!	DSIG (BHFP) 25 LUDING ADDITIVE maintain wa DSION CONTROL INTERVALS Left in well 288 3018	CEMENT FILLUP OR SACKS (Cabb feet) Cement to surface Cement over salt sand	produced war nd improve oil recove **PACKERS** Kinds Sizes Depths set Perforations:	ery.
19) Estimated 20) MAXIMU 21) DETAILI bacter 22) FILTERS 23) SPECIFIC 24) CASING CASING OR TUBING TYPE Conductor Fresh water Coal Intermediate Production Tubing Liners	reservoir fraudin PROPOS ED IDENTIFICIDES a (IF ANY): CATIONS FO AND TUBIN \$===================================	cture press ED INJEC ICATION IND OTH CATTRI OR CATH	CTION OF MATHER Che Che Che Che Che Che Che Che Che Che	PERATION OF CONTECTION New X	ONS: TO BE LS as Dalbe ON AM	Volume per hour: INJECTED, INCIS INDECTED, INC	DSIGN CONTROL INTERVALS Left in well 3018 Stansberry	CEMENT FILLUP OR SACKS (Cabbe feet) Cement to surface Cement over salt sand et al	produced war nd improve oil recove **PACKERS** Kinds Sizes Depths set Perforations:	ery.

3 2 6 94

1)	Date	April	21,	1994
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Operator's

2) Well No. Mary Lemasters #P-14

3) SIC Code

API Well No. 47 - 095 -/626
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

SURI	FACE OWN	ER(S) OF RECORD TO BE SERVED	7 (i)	COAL OPERATOR N/A Address
(i)	Name W	V 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
	Address			
		Dep't. 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 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. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment.

Pennzoil Products Company

Well Operator

Timothy P. Roush

Its Supervisor, Surveying/Mapping

Telephone (304) 422-6565