

# State of West Virginia Division of Environmental Protection

FUNKOlini ... Section of Oil and Gas 1 6 **33** 

Well Operator's Report of Well Work

Farm names of WVA. PUBLIC LAND CORP. Operator Well No.: F.L. HOGE H-14

LOCATION: Elevation: 1,359.00 Quadrangle: CENTER POINT

District:

GREEN County: WETZEL 9250 Feet South of 39 Deg. 30Min. 7200 Feet West of 80 Deg. 40 Min. Latitude: Sec. Longitude 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	 	 	 I
Inspector: RANDAL MICK	İ	Ì	İ	1
Permit Issued: 05/12/93	İ	İ	İ	İ
				1
Well work Completed: 09/16/93 Verbal Plugging	8-5/8"	606'	606'	200 sks.
Permission granted on:				
Rotary X Cable Rig Total Depth (feet) 3336	   4-1/2"	3313.80'	3313.80'	300 sks.
		 		' 
Fresh water depths (ft) N/A	I		_	

OPEN FLOW DATA (Water Injection Well)

Is coal being mined in area (Y/N)? N

N/A

Salt water depths (ft) \_\_N/A

Coal Depths (ft):

Producing formation Gordon  Gas: Initial open flow MCF/d Oil:  Final open flow MCF/d  Time of open flow between initial a	Final open flow B	3285 bl/d bl/d
Static rock Pressurepsig (surfa	ce pressure) afterH	ours
Second producing formation  Gas: Initial open flow MCF/d Oil:	Pay zone depth (ft) Initial open flow B	b1/d
Final open flow MCF/d Time of open flow between initial a	Final open flow Band final tests H	bl/d bl/d lours

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: PENNZOIL PRODUCTS COMPANY

Timothy P. Roush, Suppervisor - Surveying/Mapping Date: September 15, 1993

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## Treatment

Perforated: Gordon from 3246' - 3254' (16 holes)

w/290 bbls. of gelled water, 1500# of 80/100 sand and 3500# of 20/40 sand. Treated:

## Well Log

Sand & Shale	0	_	674
Shale	674	_	795
Sand	795	_	822
Shale	822	_	904
Limestone & Shale	904	_	1008
Limestone	1008	_	1056
Shale	1056	_	1174
Limestone	1174	_	1184
Sand & Shale	1184	_	1394
Shale	1394	_	1594
Sand	1594	_	1650
Shale	1650	_	1775
Sand	1775	· _	1838
Sand & Shale	1838	_	1980
Sand	1980	_	2010
Sand & Shale	2010	_	2205
Sand	2205	-	2236
Shale	2236	_	2364
Little Lime	2364	_	2377
Shale	2377	_	2390
Blue Monday	2390	_	2410
Big Lime	2410	_	2464
Big Injun	2464	_	2650
Shale	2650	_	3240
Gordon			3285
Total Depth	3390	•	-

DET-4119

FORM WW-3(B)	FILE COPY
Obverse)	•
10/91	Office Cection
•	APR 1 5 93

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Envire 2



1) Date: Apri	.1 13,		. 19_93
2) Operator's F.I	HOGE	<b>#</b> H−14	
3) SIC Code			
4 API Well NO.	State .	103 County	- 1540-L]
5. UIC Permit No.			

Asued 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	•	•		Gas in	jection (	not storage)	- ·		1
LOCATION	i: Elevat	ion:	1359'			7		harty Fork	· Centernoint
	Distric		reen				y: Wetzel	Quadrangle	:: Centerpoint C
WELL OPE	-				s Co	37450	9) DESIGNA	TED AGENT J.A.	Crews
Add			ox 551			* **	Ac	Idress P.O. Box	c 5519
.* :: :		Vienna		<u> 2610</u>	)5	<u>′                                      </u>	•	Vienna	WV 26105
OIL & GAS			E NÓTIFI		_				
1401114	indall					nderwood	II) DRILLING	CONTRACTOR:	
Address _						Box 135	Name	<del>-</del>	
	Mannin		WV	Sa	lem,	<u>WV 26426</u>	Address		
	26582	*	**					7,	
PROPOSEI	D WELL W	ORK:	Drill	<u>X</u>	∠ Dril	deeper	Redrill	/ Stimulate	<u>X</u> /
			Plug off	old	formati	on/ Perforale r	new formation/	Convert/	
						n well (specify)			
GEOLOGIC	CAL TARG	ET FOR	MATION,		G	ordon 6 6		Depth 3240 fee	t(top) to 3255 feet(botto
							<u>40</u>		
Approximat	te water str	ata depth	s; Fresh,_	5	39	feet; salt,	feet.		
Approximat	te coal sean	depths:		11	70				
Is coal being	g mined in	the area?	Yස	/ No	<u>X</u> /				
Virgin reser	voir pressu	re in target	formation	1	400	_psig. Source	ESTIMATI	ED	
Estimated re	eservoir fra	cture pres	sure		350	00	psig (BHFP)		
							25	Bottom hole press	sure <u>2380</u>
DETAILED	DIDENTIF	ICATION	OF MAT	ERIAI	S TO B	E INJECTED, INCI	UDING ADDITIV	ES: Fresh water	produced water
bacteri	lcides,	and o	ther c	hemi	cals	as necessar	y to mainta	in water quali	ty and improve o
PILTERS (	IF ANY):_	Cartri	dge Fi	<u>lter</u>	s and	l/or Coal Be	d Filters		recovery.
SPECIFICA	ATIONS F	OR CATH	ODIC PR	OTEC	TION A	ND OTHER CORR	OSION CONTROL	•	
								· · · · · · · · · · · · · · · · · · ·	
CASING A	ND TUBI	NG PROC	GRAM						
ASING OR	н	SPEC	IFICATIONS		1	FOOTAGE	INTERVALS	CEMENT FILLUP	PACKERS
			Weight		١,,,,,		1	OR SACES	FACELOS
	Size	Grade	per ft.	New	Used	For drilling	Left is well	(Cabic feet)	
UBING TYPE		7.0	20	- 17	<del> </del> -	611	611		Kinds
UBING TYPE	0 5/0		20	-X	<del> </del>	611	611	Cement to	
UBING TYPE	8 5/8	L.S.			1	1		Surface	Sizes
UBING TYPE  Inductor  Sh water	8 5/8	L.S.		<del> </del>				ll .	li .
UBING TYPE  nductor  sh water  sl ermediate			10.5	17		22/0			
nductor sh water al ermediate	8 5/8 4 1/2	J-55	10.5	X		3340	3340	Cement over	Depths set
onductor sih water al ermediate oduction bing			10.5	X		3340	3340	Cement over Salt Sand	
CUBING TYPE  conductor  cal  conduction  bing			10.5	_X		3340	3340	R	Perforations:
rubing Type shouteror esh water bal termediate oduction thing			10.5	_X		3340	3340	R	
CUBING TYPE  conductor  cal  conduction  bing			10.5	X		3340	3340	R	Perforations:

Deed

County Clerk's office in

Book 306 at page 415

FORM	WW-3(A)
Obver	se

Ul	<del>- : :</del> د د	ection.	ED Las On	
APR	1	5	93	
WV Environr	Div nen	visio tal l	n of Protect	ion

submitting false information, including the

possibility of fine and imprisonment.

1)	Date	April	13,	1993
	Operator's			

Well No. F. L. HOGE #H-14

3) SIC Code

API Well No. 47 - 103 State County Permit

### STATE OF WEST VIRGINIA

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

	DIVISION OF OIL A			<b>GY</b>
6) SUR	FACE OWNER(S) OF RECORD TO BE SERVED	7 (i) S	JRFACE COMML OPERATOR	Richard H. Evans
			Address	P.O. Box 35
(i)	Name WV Public Land Corp.			New Martinsville, WV 26
	Address Bldg. #3, Room 643	7 (ii)	COAL OWNER(S) WI	TH DECLARATION ON RECORD
	1900 Kanawha Blvd., E.		Name	에 이 있는 역 시간에 1984년 - 1일 중에
(ii)	Name Charleston, WV 25305		Address	
	Address			
	Dept. Natural Resources			DECLARATION ON RECORD:
(iii)			Name	
	Address Fairmont, WV 26554	•	Address	
<u> </u>	ATTN: Gary Foster			
TO THE	PERSON(S) NAMED ABOVE: You should ha	ve receive	d this Form and	the following documents:
(1)	The Application for a Liquid Inject	tion or Was	te Disposal Well	Work Permit on Form
	WW-3(B), which sets out the parties	s involved	in the drilling	or other work and
(2)	The plat (surveyor's map) showing t	the well lo	cation on Form W	W-6: and
(3)	The Construction and Reclamation Pl	lan on Form	WW-9 (unless th	e well work is only
	to plug a well), which sets out the	plan for	erosion and sedi	ment control and for
	reclamation for the site and access	road.		
The	date proposed for the first injection		diamonal is	10
				, 19
WHICH A	SON YOU RECEIVED THESE DOCUMENTS IS T RE SUMMARIZED IN THE "INSTRUCTIONS" O W-3(B)) DESIGNATED FOR YOU. HOWEVER,	ON THE REVE	RSE SIDE OF THE	COPY OF THE APPLICATION
Take not	tice that under Chapter 22B of the We	st Virgini	Code, the unde	rsigned well operator
proposes	s to file or has filed this Notice an	nd Applicat	ion and accompan	ving documents for a
Well Wor	rk Permit with the Director of the Di	vision of (	Oil and Gas. Wes	t Virginia Department
of Energ	gy, with respect to a well at the loc	ation desc	ribed on the att	ached Application and
depicted	d on attached Form WW-6. Copies of t	his Notice	the Application	n. the plat, and the
Construc	ction and Reclamation Plan have been	mailed by	registered or ce	rtified mail or deliv-
ered by	hand to the person(s) named above (o	or by public	cation in certai	n circumstances) on or
before t	the day of mailing or delivery to the	Director.		
The second				
	son signing this document shall make ng certification:	the		
"I	certify under penalty of law that I	have	PENNZOIL PRODU	JCTS COMPANY
per	rsonally examined and am familiar wit	h the	Well Ø	Verator
ini	formation submitted in this document	and all	D- []	(/ D) ()
att	tachments and that, based on my inqui	ry of	By Junal	Mont
	ose individuals immediately responsib		Timothy P.7	
obt	taining the information, I believe th	at the	Its Supervisor	- Surveying/Mapping
101	formation is true, accurate, and comp	lete. I	فين تقاير ال	
am	aware that there are significant pen	alties for	Telephone (304	+) 422-6565