

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

Well Operator's Report of Well Work

	Olice of Cil & Gas
Farm name:	Ice,Patrick & Lor

Ice, Patrick & Lori I.

Operator Well No.: L.J. Fluharty F-29

LOCATION:

964.00'

College

*ેગ* 

Quadrangle:

Pine Grove

District:

Elevation:

Wetzel

Latitude:

Green 8950'

County:

Longitude:

8650'

Feet south of Feet west of

39 Deg 32 Min 80 Deg 40 Min

Sec. 0 Sec.

30

Company:

PENNZOIL PRODUCTS COMPANY

P.O. BOX 5519

VIENNA, WV 26105-5519

Agent:

PHILIP S. ONDRUSEK

Inspector:

Rotary

Randal Mick

Permit Issued:

3/4/96

Well work Commenced: Well work Completed:

6/1/96 9/3/96

Verbal plugging

permission granted on:

Cable

Total Depth (feet) Fresh water depths (ft) 2925' NA

NA

Salt water depths (ft)

Is coal being mined in area (Y/N)

Producing formation

203-210

Gordon

Date:

Casing	Used in	Left	Cement
&			Fill Up
Tubing	Drilling	in Well	Cu. Ft.
Size			
8 5/8"	263'	263'	155 Sacks
4 1/2"	3006.35'	3006.35'	275 Sacks

OPEN FLOW DATA

Coal Depths (ft):

\*Well was drilled as a waterflood injection well. No open-flow data was obtained

Pay zone depth (ft)

C		unual open now	<u> </u>	_MCF/d	O11:	Initial open	flow	*	Bbl/d
		Final open flow	*	MCF/d		Final open i	low	*	Bbl/d
		Time of open flow between	een initial	and final	test	s	*	Hours	
S	static ro	ock pressure	*	_psig (su	rface	pressure)	after		Hours
S	econd j	producing formation				Pay zo	ne depth (ft)		
G	as:	Initial open flow		MCF/d	Oil:	Initial open			Bbl/d
		Final open flow		MCF/d		Final open f			Bbl/d
		Time of open flow between	een initial	and final	tests	5		Hours	
S	tatic ro	ock pressure				pressure)	after		Hours
NOTE: ON	BACK (	OF THIS FORM, PUT THE FO	LLOWING:	1) DETAIL	S OF	PERFORATE	D INTERVAL	S. FRACTURI	NG
OR STIMU	LATING	G, PHYSICAL CHANGE, ETC	. 2) THE WE	LL LOG W	HICH	IS A SYSTE	MATIC DETA	JILED	-10
GEOLOGIC	CAL REC	CORD OF ALL FORMATION	S, INCLUDIN	NG COAL E	NCO	UNTERED B'	Y THE WELL	BORE.	
					/	1 000	- 0		
			For: PENN	IZOIL PR	ODI	CTS COM	ANY		
			By:		L	TIN 10	$(\mathcal{L}\mathcal{L})$		

manufactor of the analysis of the control of

Treatment:

Perforations:

2790' - 2796' - 6 holes/ft. (36 holes)

Teatment:

Treated via 4.5" Casing with 300 gals. 15% HCl, 220 bbls.

Borate cross-linked gelled water and 12,400 lbs. of 20/40 sand.

Well Log:

TD = 2925

Sand & Shale	0	-	203
Coal	203	-	210
Shale	210	-	532
Sand	532	-	586
Shale	586	-	810
Sand	810	-	834
Shale	834	-	1188
Sand	1188	-	1258
Shale	1258	-	1446
Sand	1446	-	1488
Shale	1488	-	1520
Sand	1520	-	1546
Shale	1546	-	1610
Sand	1610	-	1660
Shale	1660	-	1715
Sand	1715	-	1732
Shale	1732	-	1909
Big Lime	1909	-	1964
Big Injun	1964	-	2172
Shale	2172	-	2750
Sand	2750	-	2766
Shale	2766	-	2778
Gordon	2778	-	2797
Shale	2797	-	2925

				O		oil & Go ordion	3						
FOR	M WW-3(B)	FUE		COPY		Z 40	~2	1) Date	•	F	ebruary 12	2, 1996	
Obve		11/		FE	d 1	5 19	ا در	2) Well	No.		.J. Fluhart		-29
10/9							1	3) SIC	Code				
	_			'	WY DIY	ision of	ation .	4) API	Well No.	47 -	103		1693-S
				Envir	onmeni	al Prote	CUOIT		•	State	County		Permit
								5) UIC	Code				
		-		CTION C	OR WA	ASTE fo	VEST VIRGINI DISPOSAL WI	LL WOR		MIT APPI	LICATIO Expene	N _	)3/04/9 3/04/98
	D	IVISION	OF EN	VIRON	MENT	AL P	ROTECTION.	OFFICE (	OF OIL	AND GAS	3 '		
	WELL TYPE:	:	Liquid	Injection	X		Gas Injection			Wast	e Disposal		
)	LOCATION:	3	Elevation	964	/	(1)	Wate	rshed	Piney F	'ork			54.
0017		District		Green		<i>3</i> / 0	ounty Wetze	1		Quadrangl	е Р	ine Gro	ve
7	WELL OPER	ATOR:	Pennzoil 1	Products C	ompan	v 4	670 9) DE	SIGNATED	AGENT:	Phili	p S. Ondru	sek	
•			P.O. Box			<u> </u>					O. Box 551		
		•	Vienna, V	/V 26105						Vien	na, WV 26	105	
	OIL & GAS I	Ngpr∕r∩			·		11\(\) D1	RILLING C	ONTR AC				<del></del>
	OIL & GAS L		Mike Und		<i>.</i>		11, 2.		Name	1010.			
	/		Route 2, 1						Address				<del></del>
/		Audioss	Salem, W				<del></del>		11201000				
									<b>.</b>		Gu: 1	<b>T</b>	<del>*************************************</del>
12)	PROPOSED	WELL WO	RK:	Drill		X d Form	Drill Deeper	Perforate N	Redrill		Stimulate	Conver	
				_			e in Well (specify)	reriorate i	16M LOLIII	adon -	<del></del>	COUAGE	
13)	Geological tar	rget forma	tion		Gordor	7		284	14	Ft. (Top) t	2859	F	t. (Bottom)
14)	Estimated de	pth of com	pleted we	l (or actua	d depth	of exis	ting well)		2964	]	Ft.		
15)	Approximate	water stra	ta depths		Fresh		144	Ft.		Salt		1171	Ft.
16)	Approximate		-		•		776	Ft.		-			-
			-	•				•	Ma				
17)	Is coal being	mined in t	he area?				Yes	X	No				
18)	Virgin reserv	oir pressu	re in targe	t formatio	n:		1400		psig.	Source_		Estima	ted
19)	Estimated re	servoir fra	cture pres	sure:			3500		psig.				
20)	Maximum pr	oposed inic	ection ope	rations:	,	Volu	me per hour	25 bbl.	<del></del>	Bottom Hol	e Pressure	2332 ps	sig.
·	•		-		3			E		produced w			
21)	Detailed inde						ing additives: improve oil recove		sn water,	ргосисес w	ater, Dacte	ricides a	<u>nu</u>
22)	Filters (if any	<u>/):</u>	Cartridge	filters an	a/or co	er peg t	uvers						
23)	Specification	s for catho	dic protec	tion and of	her con	rrosion	control:		······································				
24) ICAS	CASING AN	D TUBINO		AM: FICATION	ıq.		FOOTAGE I	NTERVAL	3	LCEMEN	r fillup	l PA	CKERS
l	BING TYPE	Size	Grade	Weight		Used	For Drilling	Left in		1	ACKS	'''	
	ductor	J. J. L.	Grane	44 erRite	110W	Caeu	Tot Diming	1 2010 III		1		Kinds	
-	sh Water	8 5/8"	LS.	20#	X		214 250	2	× 250	Cement T		111111111111111111111111111111111111111	
Coa		0 0/8	14.5.	4UIF	<del>  ^-</del>		نان د جنو		0 زیر	Surface	-	Sizes	
	rmediate		<del> </del>					<del> </del>	<del></del>	Dettings		DITAGE	
	duction	4 1/2"	J-55	10.5#	X	<u> </u>	2964	29	64	Cement O	ver	Depths	Set
Tub		7 1/2	"	10.0#	<b>  ^</b>		250-2	25		Salt Sand		2 07 01	
Line		<del> </del>	<del></del>							Jan Danu		Perfor	ations
<del>                                      </del>		1			<del> </del>			<del> </del>		<del>                                     </del>		Top	Bottom
-		-	<del> </del>	<del> </del>	<b></b>			<del> </del>		<del> </del>	<del></del>	+	

Louisa J. Fluharty

Dated

Lease

January 16, 1896

Book 49 at Page

APPLICANTS OPERATING RIGHTS were acquired from

. Wetzel

Lease X

Other Contract

County Clerk's Office in

by Deed

4

of record in the

44

## FORM WW-3(A) Obverse

RSICEIVED Office of Oil & Gas UIC Section								
FE3	İ	)	'90 <b>3</b>					
W// Environme	Divis enta	sior d Pi	n of rotection					

1) Date 3) SIC Code

2) Well No.

4) API Well No.

February 12, 1996 L.J. Fluharty No. F-29

103

County

State

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 OPE	RATOR:			
					Name	N/A	
	<b>(i)</b>	Name	Patrick & Lori I. Ice		Address		
		Address _	H.C. 60, Box 274		_		
		_	Reader, WV 26167	7 (ii)	COAL OW	NER WITH DECLARATION ON RECORD:	
	(ii)	Name _			Name_	N/A	
		Address			Address		
	(iii)	Name		7(iii)	COAL LES	SSEE WITH DECLARATION ON RECORD:	
		Address			Name	N/A	
					Address		
		-			_		
(1 (2 (3 Th	) The sets ) The ) The wh	e Applica s out the e plat (su e Construich sets of e propos	ation for a Liquid Injection or Waste D parties involved in the drilling or other arveyor's map) showing the well location and Reclamation Plan on Form but the plan for erosion and sediment ed for the first injection or waste dispose	isposal Weller work, and on on Form WW-9 (unle control and osal is	l Work Pe d WW-6; ar ess the we for reclan	od  ell work is only to plug a well),  nation for the site and access road.	
			OU RECEIVED THESE DOCUMENTS IS				
WI	HOH	ARE SUI	MMARIZED IN THE "INSTRUCTIONS" (	IN THE REV	ERSE SID	E OF THE COPY OF THE APPLICATION	

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.

(FORM WW-3(B)) DESIGNATED FOR YOU. HOWEVER, YOU ARE NOT REQUIRED TO TAKE ANY ACTION AT ALL.

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 Vell Operator

Timothy P. Roush Supervisor, Surveying/Mapping Its

(304) 422-6565 Telephone

Reclamation completed
OTHER INSPECTIONS

Reason: