

API#

4-Mar-96 47 -103- 1694

11N N 6 1997

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

amilling. Chilly of Oll & Gas

Well Operator's Report of Well Work

Coastal Lumber Company

Operator Well No.: McCoy Hrs. #H-27

LOCATION:

1,045.00

Quadrangle:

Elevation:

Pine Grove

District:

Green

County: Wetzel

Latitude:

Longitude:

11,200 Feet south of 6,500 Feet west of

39 Deg 32 Min

30 Sec. 80 Deg 40 Min 00 Sec.

Company:

PENNZOIL PRODUCTS COMPANY

P.O. BOX 5519

VIENNA, WV 26105-5519

Agent:

PHILIP S. ONDRUSEK

Inspector:

Randal Mick

Permit Issued:

4/9/96

Well work Commenced: Well work Completed:

6/23/96 9/27/96

Verbal plugging

permission granted on:

Cable

Rig

Rotary Total Depth (feet)

3027 NA

Fresh water depths (ft) Salt water depths (ft)

NA

Is coal being mined in area (Y/N) Coal Depths (ft):

828-832

Casing	Used in	Left	Cement			
& Theleine	D.::111	* *** **	Fill Up			
Tubing	Drilling	in Well	Cu. Ft.			
Size						
8 5/8"	307'	307'	175 0 1			
0 3/0	307	307	175 Sacks			
4 1/2"	2969.65'	2969.65'	275 Sacks			
		·				
			· ,			

### OPEN FLOW DATA

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

Producir	ng formation	Gord	lon	Pay zo	ne depth (ft)		28	82-2900
Gas:	Initial open flow	*	MCF/d	Oil: Initial open:	flow		*	Bbl/d
•	Final open flow	*	MCF/d	Final open f			*	Bbl/d
1	Time of open flow	between initial	and fina	l tests	*	Hours		
Static ro	ck pressure	*	_psig (su	rface pressure)	after			Hours
Second p	producing formation			Pay zo	ne depth (ft)			
Gas:	Turkini aman Mana		MCE/d	<del></del>	~			
Gas.	Initial open flow		MCF/G	Oil: Initial open	flow			Bbl/d
	Final open flow		MCF/d	Oil: Initial open f			<del></del>	Bbl/d Bbl/d
		between initial	MCF/d	Final open f		Hours		Bbl/d Bbl/d

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 PRODUCT

By: Date:

JAN 1 C TOUR

## Carelina of Shipman

**Treatment:** 

Perforations:

2890' - 2896' - 4 holes/ft, (24 holes)

Teatment:

Treated via 4.5" Casing with 300 gals. 15% HCl, 222 bbls.

Borate cross-linked gelled water and 13,500 lbs. of 20/40 sand.

#### Well Log:

TD - 3027'

			,
Sand & Shale	. 0	-	310
Shale	310	-	524
Sand	524	-	550
Shale	550	-	644
Sand	644	-	690
Shale	690	-	800
Sand	800	-	820
Shale	820	-	828
Coal	828	-	832
Shale	832	-	874
Sand	874	-	892
Shale	892	-	924
Sand	924	-	950
Sand & Shale	950	-	1229
Shale	1229	-	1258
Sand	1258	-	1276
Shale	1276	-	1322
Sand	1322	-	1348
Shale	1348	-	1410
Sand	1410	-	1452
Shale	1452	-	1466
Sand	1466	-	1515
Shale	1515	-	1812
Sand	1812	-	1850
Shale	1850	-	2024
Big Lime	2024	-	2076
Big Injun	2076	-	2288
Shale	2288	-	2857
Sand Stan ()	2857	-	2870
Shale	2870	-	2882
Gordon	2882	-	2900
Shale	2900	-	2912
Sand	2912	-	
Shale	2916	-	3027

FOR Obve 10/9:		-
	NOTICE O	F

_	COPY	M. MENV. O
		Child Coll & Gas UIC Section
	¥	FED 13 1935
		1131 Di Jalan of

1) Date	February 6, 1996					
2) Well No.		N	cCoy Heirs	No. H-27		
3) SIC Code						
4) API Well No.	47	•	103	· 1694-LI		
•	State		County	Permit		
5) UIC Code						

STATE OF WEST VINGINIA

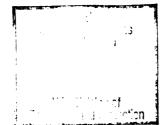
LIQUID INJECTION OR WASTE DISPOSAL WELL WORK PERMIT APPLICATION

VINCIONAL DISPOSAL WELL WORK PERMIT APPLICATION

#### for the DIVISION OF ENVIRONMENTAL PROTECTION, OFFICE OF OIL AND GAS

	WELL TYPE: Liquid Injection				<u> x</u>	X Gas Injection				Waste Disposa			l	
	LOCATION:		Elevation	1045	4		Wat	ershed	Pine	y Fork			54	
		District		Green		<u> </u>	unty Wetz	el		Quadran	gle F	ine Gro		
	WELL OPER	ATOR:	Pennzoil	Products	Compa	راک ny	70 9) DI	esigna:	red agen	NT: Ph	ilip S. Ondru	ısek		
			P.O. Box								P.O. Box 551			
			Vienna, V	WV 26105						Vie	nna, WV 26	105		
10)	OIL & GAS INSPECTOR TO BE NOTIFIED:						11) E	RILLIN	G CONTR	ACTOR:				
	Name Mike Underwood Address Route 2. Box 135						<del></del>		Na					
		Address		/V 26426			<u></u>		Addr	ess				
10\		11/13T T 11/												
12)	PROPOSED	METT M	ork:	Drill Plu		X old Form	Drill Deeper		Red te New Fo		Stimulate	Conver		
							e in Well (specify)		100 TJGM T.O	TIMACION		COHVE	- L	
13)	Geological tar	rget forms	tion		Gordo	n 410	) Dept	h	2925	Ft. (Top)	2940	F	t. (Bottom)	
14)	Estimated de	pth of con	pleted we	ll (or actu	al dept	h of exist	ting well)		30	045	Ft.			
15)	Approximate	water str	ata depths	<b>3</b> :	Fresh	Ļ	225	Ft.		Salt	<del>-</del> ;	1252	Ft.	
16)	Approximate	coal seam	depths:				857	- Ft.			<del></del>			
17)	Is coal being	mined in t	he area?			,	Yes	-	X No					
18)	Virgin reserv	oir pressu	re in targ	et formatio	on:		1400		psig	. Source	1	Estima	ted	
19)	Estimated re	servoir fra	cture pre	ssure:			3500	)	psig	•				
20)	Maximum pr	oposed inj	ection ope	rations:		Volum	ne per hour	25 bbl.		Bottom H	ole Pressure	2332 ps	sig.	
21)	Detailed inde						ng additives: mprove oil recove	ry.	Fresh wate	er, produced	water, bacter	ricides s	ınd	
22)	Filters (if any	7):	Cartridg	e filters ar	d/or co	al bed fil	ters	<del></del>						
23)	Specifications	s for catho	dic protec	tion and o	ther co	rrosion c	control:					-		
24) CAS	CASING ANI	D TUBINO		AM: FICATION	JQ		FOOTAGE	NITE DA	AT Q	I CENTEN	T FILLUP	l DA	CKERS	
	ING TYPE	Size	Grade	Weight	New	Used	For Drilling	•	t in Well	1	SACKS	I IA	CREAS	
Cond	luctor											Kinds		
Fres	h Water	8 5/8"	L.S.	20#	X		295		295	Cement '	Γο		·	
Coal										Surface		Sizes		
	mediate													
Prod Tubi	uction	4 1/2"	J-55	10.5	X		3045	ļ	3045	Cement		Depths	Set	
Line						-	<del></del>	<del> </del>		Salt San	<u> </u>	D 6		
						╁		<del> </del>			*	Perfora	Bottom	
								<del>                                     </del>				rob	DOLLOM	
										:				
25)	APPLICANT		TING RIG		acquir	red from	John	R. McCc	y et al					
	by Deed		Lease	X	•	ther Con		Dated		ruary 14, 189	6	of reco	rd in the	
			Wetzel		Count	y Clerk's	Office in	Lease	Bool	k 48	at Page	445		

FGRM WW-3(A)
Obverse



Date
 Well No.

4) API Well No.

February 6, 1996 McCoy Heirs No. H-27

3) SIC Code

47

State

103 County 7694-21 Permit

#### STATE OF WEST VIRGINIA

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

6) SURFACE OWNER(S) OF RECORD TO BE SERVED  (i) Name Coastal Lumber Company Address  P.O. Box 979  Buckhannon, WV 26201  (ii) Name Elza and Joyce Anderson Jr. Address  Reader, WV 26167  (iii) Name Reader, WV 26167  (iii) Name Address  TO THE PERSON(S) NAMED ABOVE: You should have received this Form and the following documents:								
(i) Name Coastal Lumber Company Address P.O. Box 979 Buckhannon, WV 26201 (ii) Name Elza and Joyce Anderson Jr. Address H.C. 60, Box 294 Reader, WV 26167 (iii) Name Address Address Reader, WV 26167  (iii) Name Address N/A  Reader, WV 26167  (iii) Name Address N/A  Address N/A  T(iii) COAL LESSEE WITH DECLARATION ON RECORD: Name N/A  Address N/A  Address								
(i) Name Coastal Lumber Company Address P.O. Box 979 Buckhannon, WV 26201 (ii) Name Address H.C. 60, Box 294 Reader, WV 26167 (iii) Name Address Address Reader, WV 26167  (iii) Name Address Reader, WV 26167  (iii) Name Address Address Reader, WV 26167								
Address P.O. Box 979 Buckhannon, WV 26201  (ii) Name Elza and Joyce Anderson Jr. Address H.C. 60, Box 294 Reader, WV 26167  (iii) Name Address Toylor Coal Lessee with Declaration on Record: Name N/A Address Name N/A Address Name N/A Address								
Buckhannon, WV 26201  (ii) Name Elza and Joyce Anderson Jr. Address Reader, WV 26167  (iii) Name Address Address  Address  Address  Address  T(ii) COAL OWNER WITH DECLARATION ON RECORD: Name N/A  Address  Name N/A  Address								
(ii) Name Elza and Joyce Anderson Jr.  Address H.C. 60, Box 294  Reader, WV 26167  (iii) Name Address  Address  Name N/A  7(iii) COAL LESSEE WITH DECLARATION ON RECORD: Name N/A  Address								
Address H.C. 60, Box 294 Reader, WV 26167  (iii) Name Address Address  Address  Name N/A Address								
Reader, WV 26167  (iii) Name Address  Reader, WV 26167  7(iii) COAL LESSEE WITH DECLARATION ON RECORD: Name Address								
(iii) Name  7(iii) COAL LESSEE WITH DECLARATION ON RECORD:  Name  Name  Nddress								
Address Name N/A Address								
Address								
TO THE PERSON(S) NAMED ABOVE: You should have received this Form and the following documents:								
TO THE PERSON(S) NAMED ABOVE: You should have received this Form and the following documents:								
TO THE PERSONAL PROPERTY.								
·								
(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								
THE REASON YOU RECEIVED THESE DOCUMENTS IS THAT YOU HAVE RIGHTS REGARDING THE APPLICATION								
H 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 Pennzoil Products Company								
I certify under penalty of him under mave								
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 By								
obtaining the information. I believe that the								
information is true, accurate, and complete. I Its Supervisor, Surveying/Mappi								
am aware that there are significant penalties for								
submitting false information, including the Telephone (304) 422-6565								
DANTHINATIP TATOR TITATION TO TO TO THE TATOR TO THE TATO								

FORM WW-3(B) FILE COPY (Reverse)

		OFFICE USE ON	LY		
***		DRILLING PER			
Permit number	47-103-1694-LI			March 4th.	19 96
quirements subject No. 8) Prior to the	ing the well operator and well location shown to the conditions contained herein and on the construction of roads, locations and pits for s inspector 24 hours before actual permitted w	e reverse hereof. Notif any permitted work. I	cation must be given to the	District Oil and Gas In-	spector, (Refer to
The permitted wor	rk is as described in the Notice and Application ed below.	n, plat, and (if required	construction and reclamat	ion plan, subject to any r	nodifications and
Permit expires	3-4-98	unless well we	ork is commenced prior to the	nat date and prosecuted w	vith due diligence.
Bond:	Agent: Plat: Casing 3	61260915	Michael	Jun Speen	Δ
NOTE: Keep on	ne copy of this permit posted at the drilling lo	cation.	CHIEF, OFFICE OF	OIL AND GAS	
	PERMIT MODIFICATIONS AND	CONDITIONS (IF AN	Y) TO THE PROPOSED	WELL WORK	
	•				
				·	
		OFFICE USE O	NLY		
This part of Form	m IV-3(b) is to record the dates of certain occ	turrences and any follo	w-up inspections.		
	Date				Date(s)
Application recei	ved		Follow-up inspection	(s)	
Well work started	d		** **		
Total depth reach	hed		19		
Well Record rece	eived		** **		
Reclamation com	npleted		** **		
OTHER INSPEC	CTIONS	¥			
Reason:					
Reason:					