



14-Oct-97 API# 47 -095- 1687

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

Wall Operator's Penart of Well Work

		Well	Operator's F	Report	of Well V	Vork			The same			
Farm name:	McCoy, Don	ald L.		Oper	rator Well No.: L.J. Lemasters #5A MAR Strangers WWA Strangers							
LOCATION:	Elevation:	1,017.00		Quad	rangle:	Center Poi	nt Envir	WY DIVISION O	70 jg			
	District: Latitude: Longitude:	•	eet south of eet west of	39	ity: Tyle Deg 30 Deg 40	Min 0	Sec. Sec.	WY DIVISION O	1			
Company:	P.O. BOX 5:	PRODUCTS (519 VV 26105-551			Casing & Tubing	Used in Drilling	Left in Well	Cen Fill Cu.	Up			
Agent:	PHILIP S. O	NDRUSEK			Size							
Inspector: Permit Issued:	Mike Under	10/14/97		-								
Well work Con Well work Con Verbal plugging	npleted: g	11/11/97			8-5/8"	292'	292'	175	Sacks			
permission gran Rotary X Total Depth (fe	Cable eet)	Rig 2990'			4 ½"	2989.60'	2989.60'	275	Sacks			
Fresh water de	pths (ft)	<u>NA</u>										
Salt water dept	hs (ft)	NA										
Is coal being m Coal Depths (f	•	7/N) NA -	N .					·				
OPEN FLOW	DATA	*Well was d	rilled as a wa	aterfloo	od injection	n well. No c	pen-flow data	was obtair	ned			
Produ	cing formation		Gordon			Pay zone d	enth (ft)	2 9	35'			
Gas:	Initial open f	low			Oil: Initi	al open flow		*	Bbl/d			
	Final open fl			ICF/d		al open flow		*	Bbl/d			
Static	Time of op rock pressure	en flow between			l tests irface pre	ssure)	* Hours	S	Hours			
Secon	d producing for	rmation				Pay zone d	enth (ft)					
Gas:	Initial open f		N	/ICF/d	Oil: Initi	ial open flow			Bbl/d			
	Final open fl			/ICF/d		al open flow			Bbl/d			
		en flow between					Hour	S				
Static	rock pressure	_	p	sig (sı	ırface pre	ssure)	after		Hours			
NOTE: ON BACK OR STIMULATE GEOLOGICAL R	NG, PHYSICAL	CHANGE, ETC.	2) THE WELL	LOGV	VHICH IS A	A SYSTEMAT	TIC DETAILED	ACTURING				
		F	or: PENNZ	OIL PI	RODUÉT	S COMPAN	y Y / /					
			By:		Am	My 17		9-14-	-98			
			Date:		13/	17/58						

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1687

Treatment:

Perforated Gordon sand with 28 holes from 2929'-2940' K.B. Fractured with 300 gals 15% HCL and 202 bbls gelled water and 11,000 lbs. 20/40 sand

Well Log:

All depth are relative to K.B.

0	272 Sand and Shale
272	460 sand
460	528 Shale
528	655 sand
655	722 Shale
722	800 sand
800	838 Shale
838	933 sand
933	1380 Shale
1380	1548 sand
1548	1640 Shale
1640	1778 sand
1778	1854 Shale
1854	1880 sand
1880	2050 Shale
2050	2144 Big Lime
2144	2382 Big Injun
2382	2906 Shale
2906	2935 Gordon Stray
2935	2944 Gordon
2944	3020 Shale

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

Well Operator's Report of Well Work

Farm name:	McCoy, Don	nald L.		Ope	rator Well	No.: L.J.	Lema	ters #354E	VED ii & Gas	
LOCATION:	Elevation:	1,017.00)	Qua	drangle:	Center Po	int	UIC Se	ection	
	District: Latitude: Longitude:	McElroy 11,150' 3,300'	Feet south of Feet west of	39	nty: Tyle Deg 30 Deg 40	Min 0	Sec.	MAY Div	1 1998 Ision of al Protection	
Company:	PENNZOIL P.O. BOX 5 VIENNA, W	519	S COMPANY		Casing & Tubing	Used in Drilling		Left in Well	Ceme Fill U Cu. F	p
Agent:	PHILIP S. C	NDRUSEK			Size			1 . A		
Inspector: Permit Issued: Well work Con	Mike Under	wood 10/14 11/11			8 5/8"	292'		292'	175 Sa	cks
Well work Cor Verbal pluggin	npleted: g	1/19			4 1/2"	2989.6'		2989.6'	275 S	acks
permission gran Rotary X Total Depth (for Fresh water de	Cable eet)	Rig 2,990' NA						998 11 11 12 12 11 12 12 12 12 12 12 12 12 12 12 12 1		
Salt water dept	ths (ft)	NA	_					in the same of		
Is coal being m Coal Depths (f	•	//N) N	A N				, 1,48	. The same ways		
OPEN FLOW	DATA	*Well wa	as drilled as a wa	aterflo	od injectio	on well. No	open-	flow data w	as obtaine	d
Gas: Static	Initial open final open final open for cock pressure	flow low en flow be	* N tween initial ar	ACF/d ACF/d nd fina	Fin	Pay zone ial open flowal open flowersure) Pay zone	w * afte	Hours	*B	,955' bl/d bl/d fours
Gas:	Initial open final open f	flow low	tween initial ar	ACF/d	. Fin	ial open flo al open flov	w	Hours	В	bl/d bl/d lours
OR STIMULATI	NG, PHYSICAL	CHANGE, E'	FOLLOWING: 1) IC. 2) THE WELL ONS, INCLUDING	LOG	WHICH IS	A SYSTEMA	TIC D	ETAILED	TURING	417 P. T
			For: PENNZ By:	OIL P	PRODUCT	S COMPA	NY-		the set of the	1555 <u></u>
			Date:		1-90-	98	1/1			

Treatment:

Perforations:

Teatment:

2,929' - 2,933' and 2,937' - 2,940': 4 holes/ft (28 holes) Treated via 4.5" Casing with 300 gals. 15% HCl, 202 bbls. cross-linked gelled water and 11,000 lbs. of 20/40 sand.

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Well Log:

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	Sand & Shale	The state of the s	0	_	460	15 1 24			. F		
	Sand		460		530	$\mathbb{P}_{\mathbb{P}^{1}} \mathbf{V}_{\mathbb{P}^{1}}$	11 1				inteduc.
	Sand & Shale		530	-	900						
	Sand		900	-	940					To the Control of the	
	Sand & Shale		940	-	1090					en de la companya de	of the same of the
	Shale	\$25.00	1090	<u> </u>	1130				्रमञ्जालका छ ।	今日本春。	Stypicar
	Sand & Shale	t 1 or January 1	1130	. - ,	1380				No. State - No.		Student herring
	Sand page	13 / Sec.	1380	-	1420		ig fat man en en en en en		tite were		i) krok llev
	Sand & Shale	* * * * * * * * * * * * * * * * * * * *	1420	-	1640						Course flow Technic physical
managament of a	Sand	Maria Carlo	1640	-	1675					***	n androgen. Sammer
	Sand & Shale		1675	-	1800			r . es.s	Ā	skis!	i ato
!	Shale	gar terminal region by a first of page	1800		1860				e di da servica mana a salahan a	· (5.5)	। ल्युडिटी भारत
	Sand		1860	-	1890				er og spek	11.	TEST WATE
	Sand & Shale		1890	-	2150		**			Thermal Arthur All Community	Street Committee
*** ***	Sand Control	Made the entropy of a community of the	2150	-	2250				er and the or News		
	Sand & Shale		2250	-	2330		£4	tit i ene e e e egege	7677	re la volai	great inco.
	Shale	Service and the service of the servi	2330	-	2893		Oph reso, a real control	1. 1.	•		red Depths
	Gordon		2893	-	2955			- 100 Table 100 Table	reflect 2000 method with the season of a co	***	4
/1 * . *	Sand & Shale	TO OV	2955	· •	3000	as elver	fielding:	inter Mill	T. P. W.	ATACTY	(a) 11 A34(
		di esson v . :	0000			nation of	\		ده! نووو	nomes & saile of	·
-	Depui driner	woll ase :	2990		ata.	HODION M	Andrews and the state of the second	Karabani sa 1 Tuliku ngasasan	no homeway: 45	amol gaioul o isitial	Fice Grs.
all a series	Depth logger		3000		7	والمنافقية والمنافقة	arabar landahan aras.	•	44.503.41-4		an parati Time terminal section of the section of

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	M WW-3(B)	- Kelmi	T	COPY	1 .		EIVED	1) Da				26 , 1997	
Obve 10/91					1 '	Cill	f Oil & Gas Dection		'ell No. [C Code	L	J. Lemas	ters No.3-A	1
LUIJ	•								PI Well No.	47 -	095	- 16	C- C
					1 '	OCT	0 2 1997	-/	52 110.	State	County		Permit
					1	MAZ E	ivision of	5) U	IC Code				
					L En	virocme	n'il Embetion				ىددك	ed id	101/0-
	MOTICE O	r l.iqin	ID INJE	CTION	UB M		DISPOSAL		DE DED			-	· 407
,)	TOTTOE O	r meo.	D HOE	CHON	OIL W		or the	METT MO	IKK PER	MIT APPL			11
۲.	D	ivisio	N OF EN	VIRON	MEN		ROTECTION	. OFFICE	е об оп	. AND GAS	ex	service 10	X(4(9
7													
	WELL TYPE	G:	Liquid	l Injection	<u>x</u>	_	Gas Injecti	on		_ Waste	Disposal		
	LOCATION:		Elevation			(4)		atershed	Left H	and Fork			28
		District		McElroy	(-	ounty Ty	er		_Quadrangle		enterpoint	
	VELL OPER	RATOR:		Products	Compa	ny46	70 9)1	DESIGNATE	ED AGENT				
			P.O. Box				45). Box 551		
				WV 26105		- 5'					a, WV 26	3105	
10)	OIL & GAS				ED:		11)	DRILLING					
			Mike Un Route 2,						Name Address				
			$\overline{}$	V 26426					Addres				
12)	PROPOSED	WELL W	ORK.	Drill		х	Drill Deep		10 - J:1	1	N	37	
	11.01.0022	WELL W	OIUL.			old Forn			Redril New Forn		Stimulate	X Convert	
							ge in Well (speci						
13)	Geological ta	rget form	ation		Gordo	n	419 De	oth 2	910	Ft. (Top) t	2930	Ft. ()	Bottom
14)	Estimated de	epth of con	npleted we	ell (or actu	al dept	th of exi			3050			`	
15)	Approximate				Fresh		195	Ft.		Salt	-	1000 134	
16)	Approximate		-	••	1.16911					Sait		1222 F	ů.
-			-				855	Ft.					
17)	Is coal being						Yes	X	No				
18)	Virgin reserv	voir pressu	ıre in targ	et formati	on:		14	00	psig.	Source _	***	Estimated	
19)	Estimated re	servoir fr	acture pre	ssure:			35	00	psig.				
20)	Maximum pr	roposed inj	jection ope	rations:		Volu	me per hour	25 bbl.		Bottom Hole	Pressure	2332 psig.	
21)	Detailed inde	entification	n of mater	ials to be	njected	d, includ	ing additives:	Fr	esh water,	produced wat	er, bacte	ricides and	
	other chemic	als as nee	ded to mai	intain wat	er qua	lity and	improve oil reco	very.					
22)	Filters (if any	<u>y):</u>	Cartridge	e filters ar	d/or co	al bed f	ilters					-	
23)	Specification	s for catho	odic protec	tion and o	ther co	rrosion	control:						
24) CASI	CASING AN	D TUBIN		AM: FICATION	•		7007.0			•			
	ING OK ING TYPE	Size	Grade	Weight	•	Used	FOOTAGE For Drilling	INTERVAL	in Well	OR SA		PACKI	ers
Cond	uctor			Weight	11011	Osed	TOI DIMME	Delti	ш меп	ORBA	CNS	Kinds	
Fresl	ı Water	8 5/8"	L.S.	20#	х		282		282	Cement To		Kinds	
Coal										Surface		Sizes	
	mediate	4 7 /0"			<u> </u>	 							
Tubi:	uction	4 1/2"	J-55	10.5#	X	-	3050	3	050	Cement Ove	er	Depths Se	t
Line					 	 				Salt Sand		Perforation	
						1				†			ns ottom
										1		1 27 20	- 100H
													
25)	APPLICANT				acqui	red fron	a	S.P. & I	L.J. Lemast	ters			
	by Deed		Lease	X	•	ther Co		Dated	April 5	5, 1894		of record is	n the
			Tyler		Count	v Clerk	s Office in	Deed	Book	23	Page	98	

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FORM WW-3(A) Obverse

Crive Colors Crive Colors
007 0 L 1337
WM Division of Environment and intention

1) Date

September 26, 1997 L.J. Lemasters No.3-A

2) Well No. 3) SIC Code

4) API Well No.

47 095

State

County

Permit

STATE OF WEST VIRGINIA

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

	DIVISION OF OIL AND GA	AS, DEPART	TMENT OF ENERGY
6) SURFACE C	OWNER(S) OF RECORD TO BE SERVED	6 (iv)	y) ADDITIONAL SURFACE OWNERS Name
(i) Name	Donald L. McCoy		Address
Address	Alvy, WV 26322		
11441655		7 (ii)	OCAL OWNER WITH DECLARATION ON RECORD:
(ii) Name		- ()	Name N/A
	-		Address
.;			
(iii) Name		7 (iii)	i) COAL LESSEE WITH DECLARATION ON RECORD:
			Name N/A
			Address
TO THE PERSO	ON(S) NAMED ABOVE: You should have	e received this	is Form and the following documents:
which set The date prop THE REASON WHICH ARE S	s out the plan for erosion and sediment osed for the first injection or waste disp YOU RECEIVED THESE DOCUMENTS IS UMMARIZED IN THE "INSTRUCTIONS"	control and osal is STHAT YOU ON THE REV	U HAVE RIGHTS REGARDING THE APPLICATION EVERSE SIDE OF THE COPY OF THE APPLICATIO
(FORM WW-3(B)) DESIGNATED FOR YOU. HOWEVER,	YOU ARE NO	NOT REQUIRED TO TAKE ANY ACTION AT ALL.
	Take notice that under Chapter 22B of the proposes to file or has filed this Notice and Well Work Permit with the Director of the of Energy, with respect to a well at the local depicted on attached Form WW-6. Copies Construction and Reclamation Plan have by hand to the person(s) named above (or the day of mailing or delivery to the Director)	d Application e Division of C cation describe of this Notice been mailed b by publication	n and accompanying documents for a Oil and Gas, West Virginia Department bed on the attached Application and ce, the Application, the plat, and the by registered or certified mail or delivered
The person si	gning this document shall make the fol	lowing certifi	ification:
NT andic	under penalty of low that I have		Pennzoil Products Company
	under penalty of law that I have ly examined and am familiar with the		Well-Operator
herzonan	is evammen ann am rammar wim me		/ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \

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."

Supervisor, Surveying/Mapping

Telephone

(304) 422-6565