

. nytor politice to me on State of West Virginia Division of Environmental Protection Permitting Section of Oil and Gas Office of Oil & Cos

Well Operator's Report of Well Work

Farm name: PENNZOIL PRODUCTS COMPANY

Operator Well No.: C. McCOY L-8

LOCATION:

Elevation: 1,000.00

Quadrangle: CENTER POINT

District:

District: MCELROY County: TYLER
Latitude: 14,550 Feet South of 39 Deg. 30Min. 0 Sec.
Longitude 3,300 Feet West of 80 Deg. 40 Min. 0 Sec.

Company: PENNZOIL PRODUCTS COMPANY P. O. BOX 5519

VIENNA, WV 26105-5519

Agent: JAMES A. CREWS

Inspector: MIKE UNDERWOOD Permit Issued: 01/08/93 Well work Commenced: 01/09/93 02/16/93 Well work Completed: Verbal Plugging Permission granted on:

Rotary X Cable

Total Depth (feet) 3005 Fresh water depths (ft) N/A Salt water depths (ft)

Is coal	being mined	in area (Y/N)? N
Coal Dept	ths (ft):	N/A 1/N/FN

Is co	oal	beir	ig mi	ned	in	area	(X/N)3 N
Coal	Dep	ths	(ft)	:		N/A	\ -, -, -, -, - <u>1, -</u>
				-			

Casing	Used in	Left	Cement
Tubing	Drilling	in Well	Fill Up Cu. Ft.
Size			
8-5/8"	309.40'	309.40	150 sks.
4-1/2"	2984.35'	2984.35	300 sks.
			·
		'	·

OPEN FLOW DATA (Water Injection Well)

Static rock Pressure	MCF/d Oil: In: MCF/d Find between initial and psig (surface)	nal open flow Bb final tests Ho	-2934 ol/d ol/d ours ours
Second producing format	tion	Pay zone depth (ft)	
Final open flow	MCF/d Oil: Ini	itial open flow Bb	01/d
			ol/d
Static rock Pressure	psig (surface	222222	urs
		Ho	urs

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, Supervisor, Surveying/Mapping

Date: September 14, 1993

SEP 1 6 1933

Treatment

Perforated: Gordon w/20 holes 2906' - 2916'

Treated: w/300 gal. reg. HF acid, 266 bbls. gelled water, 1500# 80/100 sand and $3500\#\ 20/40$ sand.

Well Log

Sand	0	_	60
Shale	60	-	134
Sand and Shale	134	-	460
Shale	460	-	593
Sand	593	_	630
Limestone	630	_	695
Shale	695	-	815
Limestone	815	-	830
Shale	830	_	870
Sand	870	_	895
Shale	895	_	1008
Sand	1008	_	1022
Shale	1022	_	1220
Sand	1220	_	1276
Shale	1276	_	1364
Sand	1364	_	1686
Shale	1686	_	1733
Sand	1733	-	1766
Shale	1766	-	1832
Sand	1832	_	1870
Shale	1870	_	2050
Little Lime	2050	_	2064
Shale	2064	_	2094
Big Lime			2172
Big Injun	2172	_	2322
Shale	2322		
Gordon	2874		
T.D.	3005		_,,,



i)	Date:	υ€	ecembe	er	23,	, 19_	92	
	Operator's Well No.		RISTI	NA	MCCOY			
3)	SIC Code							
4	API Well N	iO.	47		095		1515-L	.]
			State		County	P	rmit	
5.	UIC Permit	No.						

STATE OF WEST VIRGINIA

NOTICE OF LIQUID INJECTION OR WASTE DISPOSAL WELL WORK PERMIT APPLICATION

Expure 01/08/95

Josued 01/08/93

					· · · · · · · · · · · · · · · · · · ·				·		_		
6) WELL T	YPE: Liqui	id injection	_X_/	Gas in	njection	(not storage)		Waste disp	osal	,			
7) LOCATIO		tion: 1	000'				Watershed.	-		Creek			•
	Distr	ict: M	cElroy				County:			Quadrang	a. Cer	ntern	oint
8) WELL O	PERATOR	Pennz	oil Pr	oduc	ts Co	o. 37450				GENT _J.	_		OIIIC
A	ddress	P.O.	Box 55	19		4670	ŕ	, 520.0		P.O. B			
		Vienn	a, WV	261	.05				Address .	Vienna			5
10) OIL & G	AS INSPEC	TOR TO	BE NOTIF	IED					-	vacania		2010	
Name		Underw					1.1	ו וופת (ING CON	TRACTOR:			
Addres	Route	#2 B	ox 135				* * * * * * * * * * * * * * * * * * * *	•					
	Salem	, WV	26426										
		<u></u>						Adar	es s				
12) PROPOS	ED WELL	WORK.	Drill	X	∕ Dril	II daa	,	5			7		
12) FROFOS	ED WELL	WORK:								Stimulate	7		
						ion_/ Perfor		formation_	_/ Conve	ert/			
13) 650100			Other pi	iysical	change	in weil (specify)			2005			
13) GEOLOG								······································	Depth_	2885 fee	t(top) to	<u> 2900</u>	_feet(bottor
						xisting well)	2985	ft.					
	ate water st				0.	feet; salt	ı, > 1.	50'f	et.				
	iate coal sear												
	ing mined in												·
 Virgin res 	ervoir pressu	re in targe	formation	1		psig Source	·	Estima	ted				
19) Estimated	reservoir fra	cture pres	sure		3500)	p	sig (BHFP)				
20) MAXIMU	M PROPOS	SED INJE	CTION O	PERAT	TIONS:	Volume per ho	our:	25	Bo	ottom hole pres	SHEE	2470)
21) DETAILI bacte	DIDENTI	ICATION	OF MAT	ERIAI	LS TO B	E INJECTED,	INCLUDI	NG ADDIT	TIVES F	resh wate	יר הי	oduce	ad water
22) EU TERG	.VF 4 5 770	Cartr	idaa f	11		as neces	sary L	o main	tain w	ater qual	ity a	nd in	nprove o
						id/or coal							recover
23) SPECIFIC	CATIONS F	OR CATH	ODIC PR	OTEC	TION A	ND OTHER CO	DRROSIO	NCONTR	OL:				
24) CASING	AND TUBI	NG PROC	RAM					· · · · · · · · · · · · · · · · · · ·					
CASING OR	11	SDEC.	FICATIONS		,	· ~~~	AGE INTERY				.1		
TUBING TYPE		1	Weight				1	ALS	CE	MENT FILLUP OR SACKS		PACKE	RS
	Size	Grade	per ft.	New	Used	For drilling		Left is well		(Cubic feet)	<u> </u>		
Conductor	0 5/0	TC	20	77		250					Kinds		
Fresh water	8 5/8	L.S.	20	X		250		250		ent to	11		
Cosi									Su	rtace	Sizes		
Intermediate	1										ii -		
Production	4 1/2	J-55	10.5	X		2985		2985	Ceme	ent over	Depths s	et .	
Tubing										lt Sand	11		- · · · · · · · · · · · · · · · · · · ·
Liners									1		Perforat	ions.	
											Тор		Bourse
											100		Bottom
						-			-		#		
25) APPLICA	NT'S OPE	ATING	ICHTS			C s	Z. McC	017			11		
	/ lea						March				1007		
Jy acea,								109	_		1897		record in th
		yler	C	ounty (Clerk's (office in	Lease		Book	33	at page	: 112) -

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

FORM	WW-3(A)	
Obver	se	

I)	DateL	ecember	_23,	1992	
	Operator's				
2)	Well No.	CHRICT	TNIA	MCCON	T 0'

2) Well No.

3) SIC Code

4) API Well No. 47 - 095

State County

STATE OF WEST VIRGINIA

NOTICE OF LIQUID INJECTION OR WASTE DISPOSAL WELL WORK PERMIT APPLICATION

	for the
DIVISION OF OIL AN	D GAS, DEPARTMENT OF ENERGY
6) SURFACE OWNER(S) OF RECORD TO BE SERVED	7 (i) COAL OPERATOR N/A Address
(i) Name Pennzoil Products Company Address P.O. Box 5519 Vienna, WV 26105 (ii) Name	7 (ii) COAL OWNER(S) WITH DECLARATION ON RECORD Name Address
Address(iii) NameAddress	7 (iii) COAL LESSEE WITH DECLARATION ON RECORD: Name Address
TO THE PERSON(S) NAMED AROVE. You should be	re received this Form and the following documents:
 The Application for a Liquid Injecting WW-3(B), which sets out the parties The plat (surveyor's map) showing the construction and Reclamation Plate to plug a well), which sets out the reclamation for the site and access 	on or Waste Disposal Well Work Permit on Form involved in the drilling or other work, and we well location on Form WW-6; and on Form WW-9 (unless the well work is only plan for erosion and sediment control and for road.
	or waste disposal is, 19
THE REASON YOU RECEIVED THESE DOCUMENTS IS THE WHICH ARE SUMMARIZED IN THE "INSTRUCTIONS" ON (FORM WW-3(B)) DESIGNATED FOR YOU. HOWEVER,	AT YOU HAVE RIGHTS REGARDING THE APPLICATION THE REVERSE SIDE OF THE COPY OF THE APPLICATION YOU ARE NOT REQUIRED TO TAKE ANY ACTION AT ALL.
Take notice that under Chapter 22B of the Wesproposes to file or has filed this Notice and Well Work Permit with the Director of the Divof Energy, with respect to a well at the locadepicted on attached Form WW-6. Copies of the Construction and Reclamation Plan have been metals.	t Virginia Code, the undersigned well operator Application and accompanying documents for a rision of Oil and Gas, West Virginia Department tion described on the attached Application and is Notice, the Application, the plat, and the mailed by registered or certified mail or deliv- by publication in certain circumstances) on or
The person signing this document shall make t following certification:	he
"I certify under penalty of law that I h personally examined and am familiar with information submitted in this document a attachments and that, based on my inquir those individuals immediately responsibl obtaining the information, I believe tha information is true, accurate, and complam aware that there are significant pena submitting false information, including possibility of fine and imprisonment.	the nd all y of e for t the Its Supervisor - Surveying/Mapping ete. I lties for Telephone (304) 422-6565

Reclamation completed
OTHER INSPECTIONS

Reason:_
Reason:_