

111121 207

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

	Por-Arra		Section of	Oil a	nd Gas			
0.	Pomitting 100 of CR 2 clas	We	ll Operator's I	Repor	t of Well V	Vork		
Farm name:	Glover, Forre			Ope	rator Well	No.: M. El	der #13-R	
LOCATION:	Elevation:	1,320.00	ı	Qua	drangle:	Center Poi	nt	
	District: Latitude: Longitude:	McElroy 8,000 8,750	Feet south of Feet west of		nty: Tyle Deg 27 Deg 40	Min 30	Sec.	
Company:	PENNZOIL I P.O. BOX 55 VIENNA, W	19	S COMPANY 519		Casing & Tubing	Used in Drilling	Left in Well	Cement Fill Up Cu. Ft.
Agent:	PHILIP S. O	NDRUSEK			Size			
Inspector: Permit Issued:	Mike Underw	10/21						
Well work Com Well work Com Verbal plugging	npleted:	12/15			8 5/8"	575'	575'	250 Sacks
permission grar Rotary X Total Depth (fe Fresh water dep	Cable et)	Rig 3336' NA			4 1/2"	3280.00'	3280.00'	275 Sacks
Salt water dept	hs (ft)	NA	<del>-</del>					
Is coal being m Coal Depths (fi		657-6						
OPEN FLOW	DATA	*Well wa	s drilled as a wa	aterflo	od injection	on well. No o	pen-flow data w	vas obtained
Produc Gas:	cing formation Initial open fl	low	Gordon * N		Oil: Init	Pay zone of ial open flow		3184-3210 * Bbl/d
Gas.	Final open flo			MCF/d		al open flow		* Bbl/d
Static	Time of operock pressure	en flow bet	ween initial ar		al tests surface pre	essure)	* Hours	Hours
	d producing for					Pay zone o		
Gas:	Initial open f			MCF/d MCF/d		ial open flow		Bbl/d
	Final open flo		ween initial a			al open flow	Hours	Bbl/d
Static	rock pressure	on now be			surface pro	essure)	after	Hours
OR STIMULATI	K OF THIS FORM NG, PHYSICAL ( RECORD OF ALL	CHANGE, E	C. 2) THE WELL	L LOG COAL	WHICH IS ENCOUNT	A SYSTEMA		CTURING
					~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~	צרושות זו	1-1/	

**Treatment:** 

Perforations:

3200' - 3204' - 4 holes/ft.(16 holes)

Teatment:

Treated via 4.5" Casing with 300 gals. 15% HCl, 204 bbls.

Borate cross-linked gelled water and 7,500 lbs. of 20/40 sand.

Well Log:

**TD - 3336** 

•			
Sand & Shale	0	-	<b>590</b>
Shale	590	-	634
Sand	634	-	657
Coal	657	-	661
Shale	661	-	847
Sand	847	-	870
Shale	870	-	1185
Sand	1185	-	1217
Shale	1217	-	1666
Sand	1666	-	1984
Shale	1984	-	2033
Sand	2033	-	2074
Shale	2074	-	2372
Sand	2372	-	2386
Big Lime	2386	-	2462
Big Injun	2462	-	2620
Shale	2620	-	3184
Gordon	3184	-	3210
Shale	3210	-	(3336)

FORM	M WW-3(B)	FILE	<u> </u>	COPY			TAEU/70		1) Date			September	24, 199	6
Obve	rse				1	O#	RECEIVED Ice of Cil & Gas		2) Well			Martha Ele	ler No.	l3 Rev.
10/91					1	Oil	UIC Section	- 1	3) SIC (		47	005		
						c t	P 2 7 1996	1	4) API (	Well No.	State	095 County		1667-S Permit
						) i	- 2 / 1550		5) UIC	Code	Duave	County		I GIMIC
	, F	•					WV Division of		•		ls	sued 1	0/21/	91
	MORTOR O		TO TALLED				West avergrical		TIVO D					76
1	NOTICE O	r. r.idoi	D INJE	CTION	OR W.		DISPOSAL WE	ىلىلن	WOR	K PEKI	_			1
	D	IVISION	OF EN	VIRON	MENT		ROTECTION, (	OFF	FICE C	F OIL		fires i	0/21	(98
	WELL TYPE			Injection	х		Gas Injection					ste Disposal		
	LOCATION:		•	,			•	1	. 3	1.C-T4	•	ow Diaposai		20
	LOCATION:	District	Elevation	1320 McElroy		(Š) c	Wate ounty Tyler	rsne	•a	McInty	re Fork Quadrans	zle C	enterp	
) )	WELL OPER		Pennzoil		~\ ?		20		I A MED	A CIENIO	• '	<b>4</b>		
8)	WELL OF ER	AIOR:	P.O. Box		Compar	1y 10	745	olGiv	NAIED	AGENT:		lip S. Ondru P.O. Box 551		
			Vienna, V	VV 26105			<del></del>					nna, WV 20		<del></del>
10)	OIL & GAS I	NSPECTO	R TO BE	NOTIFIE	D:		 11) DI	RILL	ING CO	ONTRAC	TOR:			
			Mike Und							Name				
		Address	Route 2, 1				<del></del>			Address				
			Salem, W						•					
12)	PROPOSED	WELL WO	ORK:	Drill	- Off O	X ld Form	Drill Deeper	Dare	onata N	_Redrill ew Form		Stimulate		
							ge in Well (specify)	Peri	orate in	ew rorm	ation		Conve	:t
13)	Geological tar	rget forma	tion		Gordo		419 Depth		3180	)	Ft. (Top) t	3195	1	t. (Bottom
14)	Estimated de	_		ll (or actua						3320	•	Ft.	-	
<i>/</i> 15)	Approximate	_	_	•	Fresh	I OI OAL	•	Ft.		0020	Salt	•	1597	E-4
•			_	•	rresn						Sait		1527	— <sup>Ft.</sup>
16)	Approximate		_		-			Ft.						
17)	Is coal being						Yes		X	_No				
18)	Virgin reserv	oir pressu	re in targe	et formatio	on:		1400			_psig.	Source		Estim	ated
19)	Estimated re	servoir fra	cture pres	sure:			3500			_psig.				
20)	Maximum pr	oposed inj	ection ope	rations:		Volu	me per hour	25 b	bl.		Bottom Ho	ole Pressure	2332 p	sig.
21)	Detailed inde				_,	, —	ing additives: improve oil recover	<b>y</b> .	Fres	h water,	produced v	vater, bacte	ricides	and
22)	Filters (if any	<i>r</i> ):	Cartridge	filters an	d/or co	al bed f	ilters							
23)	Specifications	s for catho	dic protec	tion and o	ther co	rrosion	control:			-				
							•							
24)	CASING AN	D TUBING			10		l Boom and the		DII. I G		Lamen			
	NG OR ING TYPE	Size	Grade	FICATION Weight		Used	FOOTAGE II For Drilling	i	Left in \			T FILLUP SACKS	PA	CKERS
	uctor		52000			0000	Tot Dilling		DOI'U		- 010	onono	Kinds	
Fresl	ı Water	8 5/8"	L.S.	20#	X		570		57	0	Cement 7	Го		·
Coal											Surface		Sizes	
	mediate	4 1/2"	TEE	10 54	v		2200		990		0	<u> </u>	ID.	. 0
Tubir	uction ng	4 1/2"	J-55	10.5#	X		3320		332	<u> </u>	Cement (		Depth	s Set
Liner	<del></del>				<u> </u>	1					- Liv Sant		Perfor	ations
													Тор	Bottom
				L	l	<u> </u>		<u> </u>		. •	<u> </u>		<u> </u>	
25)	APPLICANT				=		*****		Elder e		1000			-3: 4
	by Deed		Lease	X	-	ther Co	ntract 's Office in	Date Dee	-	July 9, Book	1993 305	Page	of rece 131	ord in the
			Tyler											

FORM WW-3(A) Obverse

RECEIVED
Office of Oil & Gas **UIC Section** 

SEP 27 1996

WV Division of Environmental Protection

1)	Date	

3) SIC Code 4) API Well No.

2) Well No.

September 24, 1996

Martha Elder No.13 Rev.

095

47 Permit State County

## 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)	SUR	FACE OW	NER(S) OF RECORD TO BE SERVED	6 (iv) ADDITIONAL SURFACE OWNERS					
					Name_				
	(i)	Name	Forrest Glover		Address				
		Address	P.O. Box 332		_				
			Middlebourne, WV 26149	7 (ii)	COAL OW	NER WITH DECLARATION ON RECORD:			
	(ii)	Name	Dorsey Baker Estate		Name	N/A			
		Address	c/o Earle M. Long		Address				
		-	117 Ellis Ave.		_				
	(iii)	Name -	Elkins, WV 26241	7(iii)	COAL LE	SSEE WITH DECLARATION ON RECORD:			
		Address			Name_	N/A			
		_			Address				
		_		•	•				
(1 (2 (3 Th	) The sets 2) The 3) The whi e dat	e Applica s out the e plat (so e Constr ich sets e propos	ation for a Liquid Injection or Waste e parties involved in the drilling or of urveyor's map) showing the well local ruction and Reclamation Plan on Formout the plan for erosion and sediments of the first injection or waste disposed for the	Disposal Wellher work, and tion on Form MW-9 (unle t control and posal is	l Work Pedd WW-6; aress the wefor reclar	nd ell work is only to plug a well), nation for the site and access road.  GHTS REGARDING THE APPLICATION			
			MMARIZED IN THE "INSTRUCTIONS" ) DESIGNATED FOR YOU. HOWEVER			DE OF THE COPY OF THE APPLICATION RED TO TAKE ANY ACTION AT ALL.			
			Take notice that under Chapter 22B of the						

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 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."

Well Operator Supervisor, Surveying/Mapping Its (304) 422-6565 Telephone

Pennzoil Products Company

		OFFICE USE ONLY
		DRILLING PERMIT
Permit number	47-095-1667-S	October 21st. 99
		Date
No. 8) Prior to the c district oil and gas i The permitted work	onstruction of roads, locations and pits inspector 24 hours before actual permitte is as described in the Notice and Applica	own below is evidence of permission granted to drill in accordance with the pertinent legal r in the reverse hereof. Notification must be given to the District Oil and Gas Inspector, (Refer for any permitted work. In addition, the well operator or his contractor shall notify the prop- ed work has commenced.) ation, plat, and (if required) construction and reclamation plan, subject to any modifications ar
onamons specifica	10-21-98	
Permit expires	10-21-96	unless well work is commenced prior to that date and prosecuted with due diligenc
Bond:	Agent: Plat: Casing	O301449888 Males Dens
NOTE: Keep one	copy of this permit posted at the drilling	
	PERMIT MODIFICATIONS AN	ND CONDITIONS (IF ANY) TO THE PROPOSED WELT. WORK
		WELL WORK

Application received

Reason:\_ Reason:\_\_

Well work started Total depth reached Well Record received Reclamation completed OTHER INSPECTIONS Date(s)

Follow-up inspection(s)