

WR-35

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

Well Operator's Report of Well Work

47 6095 1658 Office of Oil & Gaz API# Office of Chief

MAR 1 6 1998

9-Sep-96

Farm name:

Lemasters, David W.

Operator Well No.: Joshua Haught Nenvironmental Protection

LOCATION:

1,120.00

Quadrangle:

Center Point

Elevation:

County:

District:

McElroy

Feet south of

Tyler 39 Deg 27 Min

30 Sec.

Latitude: Longitude: 8,250 10,950

Feet west of

80 Deg 40 Min

0 Sec.

Company:

PENNZOIL PRODUCTS COMPANY

P.O. BOX 5519

VIENNA, WV 26105-5519

Agent:

PHILIP S. ONDRUSEK

Inspector: Permit Issued: Mike Underwood

Well work Commenced:

9/9/96 12/18/96 1/16/97

Well work Completed: Verbal plugging

permission granted on:

Rotary Cable

Total Depth (feet)

Fresh water depths (ft)

Rig 3095' ÑΑ

NA

Salt water depths (ft)

Is coal being mined in area (Y/N) Coal Depths (ft): 930-940

Casing & Tubing	Used in Drilling	Left in Well	Cement Fill Up Cu. Ft.
Size			
8 5/8''	397'	397'	210 Sacks
4 1/2"	3045'	3045'	275 Sacks

OPEN FLOW DATA

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

Produc	ing formation	Gord		Pay z	one depth (ft)		2920-2990
Gas:	Initial open flow	*	MCF/d Oi	l: Initial oper	ı flow Î	*	Bbl/d
	Final open flow	*	MCF/d	Final open		*	Bbl/d
	Time of open flow	between initial	and final te	sts	*	Hours	
Static r	ock pressure	*	_psig (surfac	ce pressure)	after	-	Hours
Second	producing formation			Pay z	one depth (ft)		
Gas:	Initial open flow		MCF/d Oi	l: Initial oper		********	Bbl/d
	Final open flow		MCF/d	Final open	flow		Bbl/d
	Time of open flow	between initial	and final te	sts		Hours	
Static r	ock pressure		_psig (surfac	ce pressure)	after		Hours
NOTE: ON BACK	OF THIS FORM, PUT TH	TE FOLLOWING:	1) DETAILS C	F PERFORAT	ED INTERVAL	S. FRACTU	RING
OR STIMULATIN	IG, PHYSICAL CHANGE	ETC. 2) THE W	ELL LOG WHIC	CH IS A SYSTI	EMATIC DETA	ILED	
GEOLOGICAL RI	ECORD OF ALL FORMA	TIONS, INCLUDE	NG COAL ENC	OUNTERED E	Y THE WELL	BORE.	
				Λ			

For: PENNZOIL PRODUCTS

By:

Date:

MAR 13 1998

2892'-2896' - 4 holes/ft (16 holes)

Treatment:

Perforations:

Teatment:

Treated via 4.5" Casing with 300 gals. 15% HCl, 196 bbls.

Borate cross-linked gelled water and 9300 lbs. of 20/40 sand.

TD = 3095Well Log:

Sand & Shale	0	-	930
Coal	930	-	940
Shale	940	-	964
Sand	964		1000
Shale	1000	-	1310
Sand	1310	-	1346
Shale	1346	-	1424
Sand	1424	-	1473
Shale	1473	-	1494
Sand	1494	-	1526
Shale	1526	-	1534
Sand	1534	- ,	1574
Shale	1574	-	1724
Sand	1724	-	1774
Shale	1774	-	1804
Sand	1804	-	1852
Shale	1852	-	1904
Sand	1904	-	1936
Shale	1936	_	2143
Big Lime	2143	-	2252
Big Injun	2252	-	2396
Shale	2396	-	2920
Gordon	2920	-	2990
Shale	2990	-	3095

0010120	RECEIVED Office Shoul & Gas UIC Section	ОРУ
10/91	AUG 19 1998	
	WV Division of	

1) Date	August 13, 1996										
2) Well No.	Joshua Haught No.6										
3) SIC Code											
4) API Well No.	47 -	095	· 1658-L								
•	State	County	Permit								
5) UIC Code			_								

	NOTICE C	F LIQU	ID INJE				West Virgi Disposal V		ORK PER	EMIT APPIN	KALA	09	09/91
1						1	for the PROTECTION			* A	OAIIO		
1	WELL TYPE			d Injection			Gas Injectio			Waste D)isposal		
	LOCATION:		Elevation	1120		/	- W	tershed	Indian	Creek			2
	1	District	t	McElroy		∌ c	county Tyle	_	maa	Quadrangle	C	enterpo	int
	WELL OPER	RATOR:	Pennzoil	Products	Compa	_ my 46	76 9) D	ESIGNA	red agent	-	S. Ondru		
	• •		P.O. Box	5519							Box 551		
			Vienna,	WV 26105					•	Vienna,	WV 26	105	
10)	OIL & GAS				D:		11)	DRILLIN	G CONTRAC	TOR:			
			Mike Un				······································		Name				
		Address	Route 2,	Box 135 VV 26426	· · · · · ·				Addres	<u> </u>			s 4.2
12)	PROPOSED	Weit w	-	Drill								·	
/	1101000	WELL W	OIII.			X Old Forn	Drill Deepe		Redril te New Forn		imulate	X Convert	
							ge in Well (specify		1 0111			Onver	·
13)	Geological ta	rget forme	ation		Gordo	n 41		th	2980	Ft. (Top) t	2995	F	t. (Bottom)
14)	Estimated de	pth of con	apleted we	ell (or actu	al dept	h of exi	sting well)		3120			•	<u></u> (Dottom)
15)	Approximate				Fresh		300	Ft.		Salt		1327	Ft.
16)	Approximate		-				932	Ft.				1021	- ^{F (.}
17)	Is coal being						Yes	-	V 31				
18)	Virgin reserv			- 4			•	-	No No	_			
19)					on:		140		psig.	Source	<u>-</u>	Estimat	ted
•	Estimated re		-				350		psig.				•
20)	Maximum pr						me per hour	25 bbl.		Bottom Hole Pr	essure	2332 ps	ig.
21)	Other chemic	entification als as need	n of mater ded to mai	ials to be i ntain wat	njected er qual	, includ ity and	ing additives: improve oil recov	ery.	Fresh water,	produced water	, bacter	icides a	nd
22)	Filters (if any	<i>r</i>):	Cartridg	e filters an	d/or co	al bed f	ilters						
23)	Specification	s for catho	dic protec	tion and o	ther co	rrosion	control:	-					
24)	CASING AN	D TUBINO	3 PROGR	AM·	· · · · · · · · · · · · · · · · · · ·				· · · · · · · · · · · · · · · · · · ·				
	ING OR	 		FICATION	IS		FOOTAGE	INTERV	ALS	CEMENT FI	LLUP I	PAC	CKERS
_	ING TYPE	Size	Grade	Weight	New	Used	For Drilling	Left	t in Well	OR SACE			
	luctor h Water	0.5.09	1.0									Kinds	
Coal		8 5/8*	L.S.	20#	X		370	ļ	370	Cement To			
	mediate	<u> </u>						-		Surface		Sizes	
Prod	uction	4 1/2"	J-55	10.5#	X		3120	╁───	3120 .	Cement Over		Depths	Sat
ľubi										Salt Sand		Deputs	Det
ine	rs											Perfora	tions
								ļ <u> </u>				Гор	Bottom
								ļ					
25)	APPLICANT	S OPER A	TING RIG	HTS was	90011-	od from	T 1	<u> </u>					
,	by Deed		Lease		_	ther Co		ua Haugh Dated		ry 23, 1898		- C	J:- 43 -
	•		Tyler		•		's Office in	Deed –	Book		Page (of recor 499	d in the
										F	ake	433	

FORM WW-3(A)
Obverse

PECEIVED
Office of Cit 3 Gas
UIC Section

AUG 1 3 1996

WY Division of
Environmental Protection

1) Date	August 13, 1996									
2) Well No.	Joshua Haught No.6									
3) SIC Code				-						
4) API Well No.	47	- 095	- 165821							
•	State	County	Permit	_						

STATE OF WEST VIRGINIA OTICE OF LIQUID INJECTION OR WASTE DISPOSAL WELL WORK PERMIT APPLICATION for the

DIVISION OF OIL AND GAS, DEPARTMENT OF ENERGY

	SUR	FACE OW	NER(S) OF RECORD TO BE SERVED	6 (iv)	ADDITION	NAL SURFACE OWNERS
	(i)	Name	David W. Lemasters		Address	
		Address	220 Fair Ave.		Muur ees	
	•	_	Middlebourne, WV 26149	7 (6)	COALOW	NER WITH DECLARATION ON RECORD:
	(ii)	Name —	Virginia Lemasters	, (11)	Name	N/A
	` '	Address	Alvy, WV 26322		_	IVA
	•	Audi ess	Alvy, W V 20022	•	Address_	
	(iii)	Name	Garnett Ferrebee	7(iii)	COAL LES	SSEE WITH DECLARATION ON RECORD:
		Address	115 North 7th Ave.	•	Name	N/A
			Paden City, WV 26159	•	Address	
	sets		non for a factor infection or waste	Disdosai wen	VVOPK PE	rmit on Form WW-3(B), which
(3)	The whi	e plat (su e Constru ch sets o e propose	parties involved in the drilling or ot rveyor's map) showing the well local ction and Reclamation Plan on Form ut the plan for erosion and sedimen and for the first injection or waste disp	her work, and tion on Form n WW-9 (unle t control and posal is	d WW-6; ar ess the we for reclan	nd ell work is only to plug a well), nation for the site and access road.
The THE WH	The whi e date E REA	e plat (su e Constru ch sets o e propose ASON YO ARE SUM	parties involved in the drilling or ot rveyor's map) showing the well local ction and Reclamation Plan on Formut the plan for erosion and sedimented for the first injection or waste dispute RECEIVED THESE DOCUMENTS I	her work, and tion on Form n WW-9 (unle t control and posal is S THAT YOU ON THE REV	d WW-6; ar ess the we for recland	ad all work is only to plug a well), nation for the site and access road. CHTS REGARDING THE APPLICATION E OF THE COPY OF THE APPLICATION

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 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."

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

Pennzoil Products Company

Well Operator

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E COPY
1

Reason:___ Reason:___

and the second second

				OFFIC				*************					
•				DRILL	ING	PER	MIT						
Permit number	47-09	5-1658-1	.I					Se	ptembe	9th.		96	- 19
This permit cover quirements subject No. 8) Prior to the district oil and ga	e construction	ons contained of roads, loca	I herein and o itions and pit	on the reverse s for any pern	hereo nitted	f. Noti work.	fication mu In addition,	st be #i	ven to the F	district Mi	ice with t	. 15.5500	- (D-f
The permitted wo conditions specific	rk is as describe ed below.	ed in the Notic	ce and Applic	ation, plat, as	nd (if r	equired	l) constructi	on and	reclamation	n plan, su	bject to a	iny modifi	cations and
Permit expires	9	-9-98			_unless	s well w	ork is comn	nenced	prior to that	date and	prosecut	ed with du	e diligence.
Bond:	Agent:	Plat:	Casine	Fee CK# 030/284	92/	1/1	aill	200	(D)			^	
NOTE: Keep or	ne copy of this	permit posteo	at the drilling		٠٠,		CHIEF,	OFF	ICE OF	BIL AI	VD GAS	6	
	PERN	AIT MODIFI	CATIONS A	ND CONDIT	IONS	(IF A	NY) TO TH	E PRO	POSED W	ELI. WO	RK		
													,
											٠	• . •	
				OFFI									
This part of For	m IV-3(b) is to	record the da	ites of certain	occurrences	and a	ny folic	w-up inspe	ctions.					
	ı		Date								-	Date(s)	
Application recei	ived		•				Folio	w-up i	rspection(s)				
Well work starte	d							••	••				
Total depth reac	hed							••	••				
Well Record reco	eived							••	••				
Reclamation com	npleted							••	••				
OTHER INSPEC	CTIONS		_										