



DIVISION OF OIL & GAS DEPARTMENT OF ENERGY



State of Mest Airginia Bepartment of Mines

Bepartment of Mines Gil und Gas Bivision

Date	February	16,	1984			
Operator's Well No. C-90						
Farm						
API No.	<u>47 - 059</u>		1091			

WELL OPERATOR'S REPORT OF

DRILLING, FRACTURING AND/OR STIMULATING, OR PHYSICAL CHANGE

IL TYPE: Oil / Gas x / Liquid Injection (If "Gas," Production x / Underground	/ Wast nd Storag	e Disposal ge/ Deep	/ Sha	llow_x_/)
CATION: Elevation: 1450' Watershed				
District: Hardee County	Mingo	Quadrangle	Myrtle	
D13 (12 10 0)				
MPANY Seneca-Upshur Petroleum Company				Cement
DRESS P.O. Box 2048, Buckhannon, WV 26201	Casing	Used in		fill up
SIGNATED AGENT <u>Joseph G. Hager</u>	Tubing	Drilling	in Well	Cu. ft.
DRESS P.O. Box 2048, Buckhannon, WV 26201	Size 20-16			
RFACE OWNER Georgia-Pacific	Cond.	19	19	10
DRESS 133 Teachtree St., N.E., Atlanta, GA	13-10"			
NERAL RIGHTS OWNER Cotiga Development Co. 2nd Floor Rear, 14 East Lancaster Ave.	9 5/8			
DRESS Paoli PA 19301	8 5/8	2366	2366	400
L AND GAS INSPECTOR FOR THIS WORK Arthur	7			
St. Clair ADDRESS p.O. Box 157, Brenton, WV	5 1/2			
ERMIT ISSUED 12/15/83	4 1/2		4726	185
RILLING COMMENCED 12/31/83	3			
RILLING COMPLETED 01/08/84	2			
F APPLICABLE: PLUGGING OF DRY HOLE ON	Liners			
ONTINUOUS PROGRESSION FROM DRILLING OR EWORKING. VERBAL PERMISSION OBTAINED	used			
N				
EOLOGICAL TARGET FORMATION Marcellus		Deg	oth5	000 feet
Depth of completed well 4795 feet	Rotary	/ Cab:	le Tools_	
Water strata depth: Freshfeet;	Salt	feet	t	
Coal seam depths: 737', 792'		l being mi	ned in th	ne area? No
DPEN FLOW DATA				
Producing formation Devonian Shale	P	ay zone de	pth	3300 reet
Gas: Initial open flow Trace Mcf/d	Oil: I	nitial ope	n flow	0 Bb1/d
Final open flow 880 Mcf/d		'inal open		Bbl/c
Time of open flow between ini	tial and	final test	s	hours
Static rock pressure 590 psig(surfa	ce measur	rement) aft	er 24 h	ours shut i
(If applicable due to multiple completion	n)			
Second producing formation	I	Pay zone de	epth	fee
Gas: Initial open flow Mcf/d	Oil:	Initial ope	su ilom_	Bbl/c
Final open flowMcf/d	Oil:	Final open	flow	Bbl/
Time of open flow between in	itial and	final test	<u> </u>	hours
Static rock pressurepsig(surface	ce measur	ement) afte	erh	ours shut i
		(Con		64Pc 4yr

FORM IV-35 (REVERSE)

DETAILS OF PERFORATED INTERVALS, FRACTURING OR STIMULATING, PHYSICAL CHANGE, ETC. FOAM FRAC

DATE:

02/07/84

WATER:

878 BBL.

SAND:

210,000#

PERFS:

4087' - 4312'

32 .49 Perfs

NITROGEN:

21,080 CCF

WELL LOG

FORMATION COLOR HARD OR SOFT	TOP FEET	BOTTOM FEET	REMARKS Including indication of all fres and salt water, coal, oil and ga
Sand	0	285	
Sand & Shale	285	737	-
Coal	737	743	
Sand & Shale	743	792	Security Control of the Control of t
Coal	792 798	798 2280	
Sand & Shale	2280	2286	
Little Lime Sand & Shale	2286	2336	
Big Lime	2336	2614	
Big Injun	2614	2635	washington
Sand & Shale	2635	2770	
Weir	2770	2832	
Sand & Shale	2832	3172	
Sudburry Shale	3172	3244	
Berea .	3244 3300	3300 4080	
Gray Shale Brown Shale	4080	4640	•
Marcellus	4640	4795	T.D.
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		-	A CALLERY CAR
		**************************************	461 4784
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(Attach separate sheets as necessary)

Seneca-Upshur Petroleum Company
Well Operator

Ву:

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February 16, 1984

Note: Regulation 2.02(i) provides as follows:

"The term 'log' or 'well log' shall mean a systematic detailed geological record of all formations, including encountered in the drilling of a well."



1)	Date:	November	4		_{19_} 83
2)	Operator's Well No	C-90			
3)	API Well N	o. <u>47</u> _	. 05	9 –	1091
		State	Co	unty	Permit

STATE OF WEST VIRGINIA DEPARTMENT OF MINES, OIL AND GAS DIVISION

APPLICATION FOR A WELL WORK PERMIT

4) WELL TY					<u>X</u> /					
B (If "Gas", Production X			_/ Underground storage/ Deep/ Shallow X				X/)			
5) LOCATION: Elevation: 1450 The state of th			Watershed:	2 4 0		3.6	PERSONAL PROPERTY AND ADDRESS OF THE PERSON NAMED AND ADDRESS			
		strict:		rdee	7	County:		Quadrangle:	<u>Myrtle</u>	
				ur r	etrol	<u>eum Company</u>		DAGENT Joseph		
Address	P <u>.O.</u>			77.		0.6001	Address	P.O. Box 20		
			-		ginia	26201		Buckhannon,	West Virg	<u>ginia 2</u> 6201
8) OIL & GA Name				FIED			9) DRILLING C		114 0	
			ox 157		·····			tle Swiss Dri		oany
Address					raini	<u>a 248</u> 18	Address	P.O. Box 20 Buckhannon.		
10) PROPOSE			Drill		_/ Dri		/ Th = J.:11	•		<u>31018 2</u> 0201
10) PROPUSE	D WELL	WORK:			•	n deeper on/ Perfora		/ Stimulate	<u>K</u>	
			_			in well (specify)			NECE !	(ULELW)
11) GEOLOGI	CALTAR	GET FOR	•	3.6	arcel		· · · · · · · · · · · · · · · · · · ·	1	(13000	*** \$111
12) Estima					000	feet			1	21200
13) Appro	•	-		, ,	00		800	feet.	NON S	9 1983
14) Appro		-			20		al being mined in th		OIL & "GAS	
15) CASING A		_							OIL & GAS	-DIVISION
CASING OR	1	SPEC	CIFICATIONS	3		FOOTAGE IN	NTERVALS	CEMENT FILL-UP	FPT.P.O.F	RS MINES
TUBING TYPE	Size	Grade	Weight per ft.	New	Used	For drilling	Left in well	OR SACKS (Cubic feet)	Marie A	
Conductor	16"				X	20	20-	To Surface	Kinds	
Fresh water	11 3/	411				1000	1000	To Surface	by rule	15.05
Coal									Sizes	
Intermediate	8 5/8	10	23.00	X		2350	2350	To Surface		
Production	4 1/2	0 8	23.00	X			5000	As Required	Depths set	
Tubing								by Rule 15.	11	
Liners			1						Perforations:	
	<u>.</u>	-	<u> </u>						Тор	Bottom
		-	ļ							
	1				L				<u>. </u>	
·						OFFICE LIST C	N 17 7/			
						OFFICE USE C				
						DRILLING FE	LETARE E			
Permit number_		47-059	9-1091				December 15, 19 83			
1								Dat		
This permit cove	ering the w	ell operate	or and wel	locatio	on show	n below is evidence o	of permission grant	ted to drill in accordan	ce with the perti	inent legal re-
No. 8) Prior to the	he constru	ction of ro	ads, locati	nerem a ons and	ina on t pits fo	ne reverse nereor. Not r anv permitted work.	In addition, the v	given to the District Oil well operator or his con	and Gas Inspect	tor, (Refer to
district oil and g	as inspecto	or 24 hour	s before ac	tual pe	rmitted	work has commenced	1.)			ity the proper
The permitted w	ork is as d	escribed in	the Notic	e and A	pplicati	on, plat, and reclama	tion plan, subject	to any modifications as	nd conditions sp	ecified on the
reverse hereof.										
Permit expires _		Decen	nber 15	, 198	<u> </u>	unless well	work is commenced	d prior to that date and	prosecuted with	due diligence.
	·····	1.								
Bond:	na Agen	nt:	Plat:	Casin	g	Fee		•		
ali bun		a lh	021	m	11	211			a	
		<u> </u>	/~	1150	16	245				
									\mathcal{J}_{\cdots}	
NOTE: Keep o	ne copy of	f this nerm	it posted s	at the d	rilling la	ocation.	Adn	ninistrator, Office of O	irand Gas	
		p v. 11	,	4						File