







IV-35 (Rev 8-81)

December 19, 1983 Date Operator's State of West Airginia Well No. C-51 Farm API No. 47 _ 059 1088 -

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Bepartment of Mines Gil und Cas Zivision

WELL OPERATOR'S REPORT

DRILLING, FRACTURING AND/OR STIMULATING, OR PHYSICAL CHANGE

WEIL TYPE: Oil _/ Gas $_X$ / Liquid Injection (If "Gas," Production $_X$ / Undergrou	/ Wast ind Storag	e Disposal ge/ Deer	L/ p/ Sha	110w_X_/)	
LOCATION: Elevation: 1865' Watershed	Laurel 1	Fork	···		
District: Hardee County Min	go	Quadrangle	<u>Myrtle</u>	ungan menerupakan di Managan di Santa	
	· · · · · · · · · · · · · · · · · · ·	· .			
COMPANY Seneca-Upshur Petroleum Company					
ADDRESS P.O. Box 2048, Buckhannon, WV 26201		Used in	Toft	Cement	
DESIGNATED AGENT Joseph G. Hager	Casing		Left	fill up Cu. ft.	
ADDRESS P.O. Box 2048, Buckhannon, WV 26201	Tubing Size	Drilling	IN WELL		
SURFACE OWNER Georgia-Pacific	20-16		~~	10	
ADDRESS 133 Teachtree St., N.E., Atlanta, GA	Cond.	20	20	10	
MINERAL RIGHTS OWNER Cotiga Development Company	13-10"	1218	1218	400	
ADDRESS 2nd Floor Rear, 14 E. Lancaster Ave. Paoli, PA 19301	9 5/8	2700	2700	420	
OIL AND GAS INSPECTOR FOR THIS WORK Arthur	8 5/8	2700	2700	420	
St. ClainADDRESS P.O. Box 157, Brenton,	7				
PERMIT ISSUED 10/24/83	5 1/2		5217	185	
DRILLING COMMENCED 11/14/83	<u>4 1/2</u> 3		5217	107	
DRILLING COMPLETED 11/28/83	2				
IF APPLICABLE: PLUGGING OF DRY HOLE ON CONTINUOUS PROGRESSION FROM DRILLING OR REWORKING. VERBAL PERMISSION OBTAINED ON	Liners used				
GEOLOGICAL TARGET FORMATION Marcellus		Dep	th 5000	fæt	
Depth of completed well 5310 feet	Rotary y	/ Cabl	e Tools_		
Water strata depth: Fresh 106 feet;					
Coal seam depths: <u>163', 179', 395', 496',</u> 654', 1192'			ed in the	e area? No SI43	
OPEN FLOW DATA			and the second state a second state of the second s	and the second sec	
Producing formation Devonian Shale					
Gas: Initial open flow Trace Mcf/d Final open flow <u>880</u> Mcf/d					
Time of open flow between init					
Static rock pressure 595 psig(surfac		nenc) are			
(If applicable due to multiple completion Second producing formation		v zone der	ተ ከ	feet	
Gas: Initial open flow Mcf/d				Carrier and the second s	
Final open flow Mcf/d					
Time of open flow between init				- vent 1 (6 198
Static rock pressure psig (surface					
		(Conti	rue on r	everse side)	

FORM IV-35 (REVERSE)

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

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WATER:	946 BBLS.	
SAND:	210,000# furow	
PERFS:		33 .49 Perfs
NITROGEN:	22,260 CCF	

FORMATION	COLOR HARD OR SOFT	top feet	BOTTOM FEET	REMARKS Including indication of all fresh and salt water, coal, oil and gas
Sand	& Shale	0	48	
Sand	1	48	104	
Sand	& Shale	104	163	
Coal		163	168	
Sand	& Shale	168	179	
Coal		179	182	
Sand	& Shale	182	368	
Sand		368	395	
Coal	•	395	399	
Sand	& Shale	399	496	
Coal	•	496	499	
Sand	& Shale	499	654	
Coal	•	654	657	
Sand	& Shale	657	730	
Shal		730	960	
	l & Shale	960	1135	
Mine		1135	1145	
	l & Shale	1145	1192	
Coal	-	1192	1196	
	l & Shale	1196	2350	
Sand		2350	2389	
	l & Shale	2389	2440	
	Rock	2440	2474	
Shal		2474	2484 2745	
	1 & Shale	2484	3023	
•	Lime	2745 3023	3050	
	Injun	3025	3204	
	i & Shale	3204	3302	
Wein	-	3302	3601	and the second sec
	1 & Shale	3601	3650	Onondage at 5300
	ourry Shale	3650	3714	
Bere		3714	4526	
	y Shale wn Shale	4526	5140	
	vn Snale cellus	5140	5310	T.D. Hand
riar (- CTTA9	5240	Statestar Marcal Marcal Social Social	T.D. Huron 5310 3714
•				2710
				and a second

WELL LOG

(Attach separaté sheets as necessary)

Seneca-Upshur Petroleum Company Well Operator By: 60 1983 December 19, Date S.

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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

FORM IV-2(B)	FILE COPY		STWEST	1)	Date: Septemb	er 30,	<u>, 1983</u>
(Obverse)	TILL COL I		ELA ST	2)	Operator's Well No. <u>C-51</u>		
7-83				3)		- 059 -	1000
			A CONTRACTOR OF THE OWNER		State	County	Permit.
		ه چېنې د و کې مخر د کې کې	STATE OF WEST VIRG				
			ent of mines, oil an cation for a well w				
				ORA PERA			
4) WELL TY		/ Gas <u>X</u>					
5) LOCATIO	B (If "Gas	s", Production <u>X</u> 1: <u>1865</u>	/ Underground stora Watershed:I	aurol F	/ Deep	_/ Shallow _	<u>X</u> /)
5) LOCAIR	District:	Hardee	Watershed: County: M		Quadrangle:	Mvrtle	
6) WELL OF	PERATOR Sen	eca-Upshur Petro	pleum, Inc. 7)	DESIGNAT	ED AGENT Joseph	G. Hager	
Addres	_{ss} P <u>.O. Box</u>	2048		Address	<u>P.O. Box 20</u>	48	
		est Virginia 26			_Buckhannon,	West Virg	<mark>ginia</mark> 26
	AS INSPECTOR T Arthur St	ro be notified	,		CONTRACTOR:	Dr: 11:-	0
Name Addres		Box 157			Little Swiss P.O. Box 20		<u>conpany</u>
		ton, West Virgin	<u>ia 24818</u>	11001035	Buckhannon,		xinia 26
0) PROPOSI	ED WELL WORK	K: Drill <u>X</u> /D	rill deeper/	Redrill	/ Stimulate	•	TRATE
			ion/ Perforate n			TEULE	SUV (F
		Other physical chang	e in well (specify)			A Contract	
		ORMATION,				111	5 1983-
	oximate trata depth	700 55	1001	180	feet.		0 1000
	oximate coal seam	220	, , , , , , , , , , , , , , , , , , , ,		the area? Yes	/ No Z	<
	AND TUBING PI			0		Q 1 M	
CASING OR TUBING TYPE	S	PECIFICATIONS	FDOTAGE INTER	VALS	CEMENT FILL-UP	PEPT	RF MUN
	Size Grad		For drilling	Left in well	OR SACKS (Cubic feet)		ter a second
Conductor	16"	X_	20	20	To_Surface	Kinds	
resh water oal	11 3/4		600	600		Sizes	15-25
ntermediate	8 5/8'	23.00 X	2710	2710	To_Surface	51205	
roduction	4 1/2"	23.00 X		_5000	-As Required	Depths set	
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iners			*****		-	Perforations:	
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			OFFICE USE ONL		· · ·		
		1000	DRILLING PERM	11			
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do normale in the			, , , , , , <i>, , , , , , , , , , , , , </i>		Dat	e	
iirements subj	ect to the conditio	rator and well location sho ns contained herein and on	the reverse hereof. Notifica	tion must be	e given to the District Oil	and Gas Inspect	or. (Refer to
o. 8) Prior to t	the construction of	roads, locations and pits frout ours before actual permitted	or any permitted work. In a	addition, the	well operator or his con	tractor shall noti	fy the proper
				· · ·			
ne permitted w verse hereof.		d in the Notice and Applica	uon, plat, and reclamation	plan, subjec	nt to any modifications ar	nd conditions sp	ecified on the
ermit expires	00	ctober 24, 1985	unless well work	is comment	ed prior to that date and	prosecuted with	due diligence.
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Bandional	Agent	Plat Casing	Fee				
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L	{		<u>«///</u>	1		~	
				AC	Iministrator, Office of O	il and Gas	
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NOTE: Keep one copy of this permit posted at the drilling location.

See	the reverse	side of	the	APPLICA	NT'S	COPY	for ins	structions	to the	well	operator.	

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FORM IV-2						OFWEST	1)	Date:	April 26		, 19
(Obvei3e) (6-82)							2)	Opera Well 1	C and by		
							3)		Well No47	A 059 0 -	1053
DRILLING CONT					STAT	TE OF WEST VI	RCINIA		State	County	Permit
Little Swiss	s DELLI	ang co	DI	EPART	MENT O	TE OF WEST VII OF MINES, OIL A	AND GAS DIV	VISIO	N		
Buckhan on ,	West V	irgini	a			WELL PERMIT					
				a trait	a bas :	balleni india	inary produ	b10 y			
4) WELL TYPE				<u>Nod</u>	/	en lle aneon			purnerstangung son		v
5) LOCATION:		'Gas'', Pro tion:	duction _	-	/	Underground st Watershed:			/ Deep	/ Shallow _	/)
	Distri		liarve	Ŋ.			Mingo		Quadrangle:	Ityr	tle
6) WELL OPER		eneca- ca 204		Pet	roleu	<u>a, Inc.</u> 11			GENT	G. Herger	
Address	W. Comment	mon,	and the first	ini	nia	26201 and an	Address	s	Buckhannon,	West Virg	inia 2620
7) OIL & GAS	C	otiga	Devalo	comen	t Com	vanv			L'ulona II	Where we	R
ROYALTY C Address	WINER	oor Re					2) COAL OP Address		OR	Notione a q	(a
1 1000	Contraction of the second second	Penns	The second s	a l	9301		Address		with the societa	hannager	
Acreage	13	e 666. eorgia		ic		13		VNER(S) WITH DECLAR	ATION ON REC	CORD:
8) SURFACE O Address	WINEK	ox 180				bala	Name Address	2	Paintsville,	Kentucky	18 41240
Address		a, Geo	and a second	3090	9		Address	· _		Cettand	10
Acreage		£ 666.	65				Name	-		C AND A CONT	
9) FIELD SALE Address	E (IF MAD	E) TO:					Address	5 _	the supervise Providence	ant's long the	121
Autros						14) COAL LE	SSEE V	WITH DECLARAT	ON ON RECO	RD:
10) OIL & GAS I		R TO BE	The second second	D			Name	-	None	the my alt	de la la la
Name Address		· BOX			d 200 1	the S VI and	Address	5 _	ignitia ad like	indi 1980 W	121-121-14
	Sar Bund	nton,	Mest V	irgi	nia /	24818/ sep 16		i zeili	sinesia so gapar	and states	
15) PROPOSED	WORK:					/ Redrill				/.	
			old form ysical char			/ Perforate n fv)	ew formation		/		
16) GEOLOGICA	AL TARGE			ige in v	Marce	1108			Contraction of the last	alges that	01
17) Estimated	d depth of c	ompleted	ALL OF AL	<u>en 1969</u>	5000	feet	110				2 1610'
18) Approxir	d depth of c nate water s	completed strata dept	hs: Fresh	·,	5000 780 320	feet;	alt, 113		feet.	1 Distanting	\$ 1610°
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