

6-6 Murritt Creek - Salt Rock

JUL 2 2 1988

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Well Operator's Report of Well Work Operator Well No.: F-91 BLEDSOE, CLEDITH C. Farm name: Elevation: 958.12 Quadrangle: MILTON LOCATION: District: GRANT County: CARELL Latitude: 11400 Feet South of 38 Des. 25Min. O Sec. Longitude 4600 Feet West of 82 Des. 10 Min. 0 Sec. Company: SOUTHEASTERN GAS CO. P. O. BOX 2347 | Casing | Used in | Left CHARLESTON, WV 1 8 1 | Tubing | Drilling | in Well|Cu. Ft.| Asent: FRED A. RADFORD 1 Size Inspector: JERRY TEPHABOCK 924' Permit Issued: 07/19/88 Well work Commenced: 10-28-88 ____ Well work Completed: 11-02-88____ 27361 Verbal Plusgins Fermission granted on: __Z-19-88____ Rotary___ Cable ___ Ris 2-3/8" 2636' Total Deeth (feet) ___2741'____ Fresh water depths (ft) 326'_ _ ... Salt water deaths (ft) ._1510' _____ Is coal being mined in area (Y/N)? N | Cosl Derths (ft):_N/A_____ DIVISION OF OIL & GAS DEPARTMENT OF ENERGY OPEN FLOW DATA Producing formation Berea Sand Fay zone depth (ft) 2610'-2620' Gas: Initial open flow_Show__MCF/d Ail: Initial open flow_Show__Bb1/d Final open flow 10 MCF/d Final open flow 15 Rh1/d Time of open flow between initial and final tests_____24__Hours Static rock Pressure___250_psis (surface pressure) after _48__Hours

Second producing formation____ Pay zone depth (ft)_____ Gast Initial deen flow_____MCF/d Oil: Initial open flow._____Bhl/d Time of open flow between initial and final tests...____Hours Static rock Pressure .____ esid (surface pressure) after ____Hours

NOTE: ON BACK OF THIS FORM PUT THE FOLLOWING: 1). DETAILS OF PERFORATED INTERVALS, FRACTURING OR STIMULATING, PHYSICAL CHANGE, FIC. 2). THE WELL LOG WHICH IS A SYSTEMATIC DETAILED GEOLOGICAL RECORD OF ALL FORMATIONS. INCLUDING COAL FNCOUNTERED BY THE WELLBORE.

> Fred A. Radford, Vice President For: SOUTHEASTERN GAS CO.

Perforate Berea from 2610'-2618' (9 holes) and 2619'-2620' (2 holes).

Stimulation - 750 Foam Frac - Broke down with 500 gals. acid and N² at 3.067 psi.

Inj. Rate 6.3 bpm I.S.I.P. -1688# Avg. Pressure 2900 psi 5 Min. 1468# Min. Sand Con. = 2#/gal. 10 Min. 1387# Max. Sand Con. 15 Min. 8#/gal. 1340# Total Fluid 269 bbl. Total Sand 40,000 # (20/40)

<u>Formation</u>	Top	Bottom	Remarks
Topsoil	0 '	71	
Sand & Shale	71	120'	
Sand	120'	185'	
Sand & Shale	1851	340'	Fresh Water @ 326'
Shale	340'	529	
Sand	5291	692'	
Shale	6921	835'	with the second second
Sand	8351	860'	
Sand & Shale	860'	942'	
Sand	942'	1060'	
Shale	1060'	1245'	
Sand & Shale	1245'	1472'	
Salt Sand	1472'	1681'	Salt Water @ 1510'
Shale	1681'	1714'	
·Sand	1714'	1735'	
Shale	1735'	1796'	$(x_1, x_2, \dots, x_n) = (x_1, \dots, x_n) + (x_1, \dots$
Big Lime	1796	2016'	
Shale	2016'	2059'	
Injun Sand	2059'	2153'	
Weir Shale	2153'	2563'	
Sunbury Shale	2563'	2608'	
Berea Sand	26081	2621'	Show of 0il @ 2612'
Devonian Shale	2621	2741'	5.15W 01 011 C 2012
5 C V C TT UST C TT UT C	- t- V t- 1	<u> </u>	

T.D. 2741' (D.T.D.) T.D. 2734' (L.T.D.)



DIVISION OF OIL & GAS DEPARTMENT OF ENERGY

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Issued 7/19/88 Expires 7/19/90
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FORM WW-2B

STATE OF WEST VIRGINIA DEPARTMENT OF ENERGY, DIVISION OF OIL AND GAS WELL WORK PERMIT APPLICATION

1)	Well Open	rator:	South	eastern Gas	Company 40	1400, 3, P	716
2)						3) Ele	vation: 958.12
4)	Well type	e: (a) C	il_X/	or Gas	<u>X</u> /		
			Same a fixed with wi	Deep		ound Storage Shallow	
5)	Proposed	Target F	ormation	(s):	Berea Sands	tone	
6)	Proposed	Total De	pth:	2700	_ feet		
7)	Approxima	ate fresh	water s	trata dept	hs:3	92', 960', 🎏	908
8)	Approxima	ate salt	water de	pths:		1510'	
9)	Approxim	ate coal	seam dep	ths:		701'	-
10)							s/ No_X_/
11)	Proposed	Well Wor	k: Di	cill New Wel	1		
12)			CASIN	G AND TUBI	NG PROGRAM		
TYPE		SI	PECIFICAT	IONS	FOOTAGE I	NTERVALS	CEMENT
		Size	Grade	Weight per ft.	For drilling	Left in well	Fill-up (cu. ft.)
Cond	uctor					 	38CSRIB-II. D
Fres	h Water	9-5/8	J	32.3	990'	9901	Sunface
Coal		·					38CSR18-11.2.0
Inte	rmediate						00000011
Prod	uction	4-1/2	J	10.5	2700'	2700'	175 175
Tubi	ng	2-3/8	J	4.6	2700 °	2700'	
Line			t .			0)5	CEIVE
PACK	ERS : Kin	d					IUL 1 3 1988
126		ths set					BION OF OIL & GAS
	Fee(s)	alig:	2	on of Oil a	and Gas, Use	Only lamation Fund	TMENT OF ENERGY WPCP Agent

(Type)

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TO		EI	V		1)
	JUL	13	1000	では、	2)

Date	:	July II	, 1988		
Ope	rator	's well	number	P-91	
APT	Well	No: 4	7 - 011		0828
414 4	***	State	- Count	<u>-</u>	Permit

DIVISION OF OIL & GAS DEPARTMENT OF ENERGY

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

3)

NOTICE AND APPLICATION FOR A WELL WORK PERMIT

4)	(a) Name	wner(s) to be served: Cledith C. Bledsoe	5) (a) Coal Operator: Name (Coal not operated) Address		
	Address _	Barboursville, WV 25504	Address		
	(b) Name	Barboursviile, wv 25504	(b) Coal Owner(s) with Declaration		
			Name Cledith C. Bledsoe		
	Address _		Address Rt. 1. Box 1119, Fudges Ck Kd		
	(c) Name		Barboursville, WV 25504		
			Name		
			Address		
6)	Inspector	Jerry Tephabock	(c) Coal Lessee with Declaration		
- *	Address _	Rt. 1, Box 101-A	Name (Coal not leased)		
		Ripley, WV 25271	Address		
	Telephone	(304) - 372-6805			
	_	-19			
		TO THE PERSON(S) NAMED ABO	OVE TAKE NOTICE THAT:		
Sect	Included ion 8(d) of I certify we served mpanying of	of the Code of West Virgin that as required under Coopies of this notice and	ed by Chapter 22B, Article 1, ia (see page 2) hapter 22B of the West Virginia Code application, a location plat, and on the above named parties, by: ttached) stal receipt attached)		
fami atta resp is t	he terms a I certify liar with chments, a onsible forue, accur	and conditions of any perm y under penalty of law tha the information submitted and that based on my inqui or obtaining the informati cate, and complete. ce that there are signific including the possibility Well Operator By: Fred A. Ra Its: Vice Presi Address PO Char	dent Box 2347 leston, WV 25328		
			304-343-9566		
Subs	cribed and	d sworn before me this 11	th day ofluly, 1988_		
	andra K. Urt		Notary Public		
му с	ommission	expiresMay 24/ 1993			