



WR-35

RECEIVED OCT 05 1987

DIVISION OF OIL & GAS DEPARTMENT OF ENERGY

State of West Wirginia

DEPARTMENT OF ENERGY

Oil and Gas Division

Date 9-30-87							
Operator's							
Well No.	P-89						
Farm J.	E. Wether	holt					
API No.	47- 011	- 0820					

WELL OPERATOR'S REPORT

OF

,	8					
	· · · · · · · · · · · · · · · · · · ·					
DRILLING,	FRACTURING	AND/OR	STIMULATING,	OR	PHYSICAL	CHANGE

WEIL TYPE: Oil X / Gas X / Liquid Injection (If "Gas," Production / Undergrou				llow/)
LOCATION: Elevation: 949.43' Watershed	Fudges Cr	reek		
District: Grant County Cabe				
		•		
COMPANY Southeastern Gas company			yant managarin 1997	·
ADDRESS P 0 Box 2347, Charleston, WV 25328	Caşing	Used in	Left	Cement fill up
DESIGNATED AGENT Fred A. Radford	Tubing	Drilling	in Well	
ADDRESS Same as Above	Size			
SURFACE OWNER J. E. Wetherholt	20-16 Cond.	- All Parties and All Parties	to market and a ma	And Additional Control of the Contro
ADDRESS Box 501, Rt. 2, Milton, WV 25541	13–10"			
MINERAL RIGHTS OWNER J. E. Wetherholt	9 5/8			
ADDRESS Same As Above		709.7	700 7	To Surfac
OIL AND GAS INSPECTOR FOR THIS WORK Jerry	8 5/8	703.7	709.7	10 Surrac
Tephabock ADDRESS Rt 1, Box 101-A, Ripley, WV	7			
PERMIT ISSUED 4/21/87	5 1/2			
DRILLING COMMENCED 5/6/87	4 1/2	2642.0	2642.0	to 1000'
DRILLING COMPLETED 5/12/87	3	0.604 45	0604 45	
IF APPLICABLE: PLUGGING OF DRY HOLE ON	2	2634.45	2634.45	none
CONTINUOUS PROGRESSION FROM DRILLING OR REWORKING. VERBAL PERMISSION OBTAINED ON	Liners used			
GEOLOGICAL TARGET FORMATION Berea Sands	stone	Dep	th 2585-2	599 feet
Depth of completed well 2659 feet F	otary X	/ Cable	e Tools_	
Water strata depth: Fresh 383'- feet;	Salt 1500	feet		
Coal seam depths: Coal not present				area? No
3				
OPEN FLOW DATA Production Roma Sandstone	Day	r zona don	⊢h 250/ 2	EOO foot
Producing formation Berea Sandstone Gas: Initial open flow Show Mcf/d			,	
Final open flow 50 Mcf/d			A PROPERTY AND ADDRESS OF THE PARTY AND ADDRES	**************************************
			No. of Contract of	
Time of open flow between initi		•		
Static rock pressure 200# psig(surface		ment) arte	rnou	rs snut in
(If applicable due to multiple completion-			. •	<u></u>
Second producing formation				
Gas: Initial open flow Mcf/d				
Final open flow Mcf/d				
Time of open flow between init	ial and fi	inal tests	hc	urs
Static rock pressurepsig(surface		•		
	OCT 121	1987 (Cont.)	m10 00 00	verse side

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

Well perforated from $\frac{2584'}{5-18-87}$ with 12 holes. Well was fractured 5-18-87. 75 Quality Foam Frac with 500 gals, 15% HCL; 40,000# 20/40 sand; 255 Bbls. water, 360,000 SCF nitrogen; BD.2200#; ISIP 1400#; 15 min. 1240#.



DIVISION OF OIL & GAS DEPARTMENT OF ENERGY

WELL LOG DRILLER'S LOG

	DR	ILLER'S LOG	
			REMARKS
FORMATION COLOR HARD OR SO	FT TOP FEET	BOTTOM FEET	Including indication of all freshand salt water, coal, oil and gas
			and sait water, coar, our day ge
	0		
Soil	0	5 80	
Sandstone	5		
Red Rock	90	130	
Sandstone	130	195	
Shale	195	220	Committee of the Commit
Sandstone	220	300	
Shale	300	370	5 1 1/ 1 0 2021
Sandstone	370	440	Fresh Water @ 383'
Shale	440	510	
Sandstone	510	680	
Shale	680	705	
Sand	705	740	
Shale	740	822	
Sandy Shale	822	1452	Fresh Water @ 950'
Salt Sand	1452	1707	Salt Water @ 1500'
Shale	1707	1759	
Red Rock	1759	1766	
Little Lime	1766	1789	
Pencil Cave	1789	1799	
Big Lime	1799	1992	
Sandy Shale	1992	2024	
Injun Sand	2024	2114	
Shaley Sand	2114	2532	
Shale	2532	2574	
Coffee Shale	2574	2585	
Berea Sandstone	2585	2599	Show 0il @ 2586'
Shale	2599	2659	
Sugre	2333	2033	
		T.D. 2659'	
		· Vandaria de la companya del la companya de la com	
		-	
		Name of the last o	
			· Control of the cont
	<u> </u>	18	8

(Attach separate sheets as necessary)

SOUTHEASTERN GAS COMPANY	
Well Operator	
By: Tod a. Radford	, Vice President
Date: September 30, 1987	

THE PROPERTY OF

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 will, encountered in the drilling of a well."

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(Obve 7/85	rs()			\mathbb{W}	5
1703	ML	3	- ~	4000 4000	
		APR	17	198/	THE PERSON NAMED IN



1)	Date: Ap	ril	1	.6 ,		, 19	87
	Operator's Well No.			89			
3)	API Well No.	47	_	011	_	0820	
٠,		State		Co	unty	P	ermit

STATE OF WEST VIRGINIA

DIVISION OF OIL, & GABEPARTMENT OF ENERGY, OIL AND GAS DIVISION DEPARTMENT OF ENERGY

APPLICATION FOR A WELL WORK PERMIT

4) WELL TY								/ Deep	_/ Shallow
	•		Production 949				Fudges	reek	
5) LOCATIO		vation:			2			Quadrangle:	Milton 7.5' 47
	Dis:	trict:	E A S T F	RN G	A SCOT		the state of the s	DAGENT Fred	
6) WELL OP	P_O_I	200111	<u> </u>	<u> </u>	77 COD	46400	Address	P O Box 234	
Address	Char	lasto	n, WV	253	28-2			Charleston,	
8) OIL & GA						usudatti usharum	9) DRILLING C		
	Jerr							Unknown	·
			x 101		***************************************	and the state of t	Address		
Address			WV 2			and the second s			\
10) PROPOSE	,	. , .	Drill			deeper	/ Redrill	/ Stimulate/	<u>X</u> /
IO) PROPOSE	D WELL	WORK.				Perfor			
						n well (specify)			
II) GEOLOGI	CAL TAR	GET FOR	MATION		F	Berea Sand	stone 🤼		
12) Estima	ated depth o	of complet	ed well.		2660	feet			
13) Appro					3.2	feet; salt	1467	feet.	
14) Appro					92	Is co	al being mined in th	e area? Yes	/ NoX/
15) CASING									
CASING OR	11		IFICATIONS	i		FOOTAGE	INTERVALS	CEMENT FILLUP	PACKERS
TUBING TYPE	Size	Grade	Weight per ft.	New	Used	For drilling	l Left in well	OR SACKS (Cubic feet)	
Conductor	13-3/8	1	48		Х	20'	201	To Surface	Kinds
Fresh water	8-5/8	1	24		1	730'	730'	To Surface	
Coal	0.5/0	177			1				Sizes
Intermediate	-	 							By rul= 15.01
	4-1/2	J-55	10.5	ļ	X	26601	26601	140 Sks	Depths set 1000 Fill Up.
Production	2-3/8		4.6			2600'	2600'		
Tubing	2-5/6	N/A	4.0						Perforations:
Liners	1	 			1		1		Top Bottom
			1						
			1						*
	Ш.					34		1 01	87
47	7-011-0	820						April 21	
						OFFICE USE	ONLY		
						DRILLING PE	ERMIT		
		Apr	il 21,	198	9				19
Permit number	·					-		Da	ate
						- balan is suidence	of marmissian arar		
This permit cov	ering the w	ell operat	or and we	II Iocati herein	on snow and on t	n below is evidence he reverse hereof No	or permission gran	ned to drin in accorda viven to the District Oi	nce with the pertinent legal re-
No. 8) Prior to the	he construc	tion of ro	ads, location	ons and	pits for	any permitted work	In addition, the	well operator or his co	l and Gas Inspector, (Refer to ntractor shall notify the proper
district oil and	gas inspecto	or 24 houi	s before a	ctual p	ermitted	work has commend	ed.)		
The permitted v	work is as d	escribed i	n the Notic	e and	Applicati	on, plat, and reclan	nation plan, subject	t to any modifications	and conditions specified on the
reverse hereof.									
Permit expires						unless we	II work is commend	ed prior to that date an	d prosecuted with due diligence.
									•
Bond:	Agent	: ^	Plath	Das:	ine	Fee MPCE	A BETTA	Other	
1 20114		·	41	101	17	3440 13	R XAS	1/8//	
		1/2	121	Q J		195 100		/ //// // /	1 //
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NOTE: Keep		f .h!c	mit named	at the	drilling l	ncation		11/1/1/10	and Coo
NUIE: Keep	one copy o	i uns peri	mi posicu	at the	arming t	1	irector, Di	vision of Oil	and Gas File
							1/		