

Ball Gap

(207)

8800



DIVIS.J., OF OIL & GAS DEPT. OF ENERGY



State of Mest Nirginia Bepartment of Mines

Date Octo	ber 18, 1985
Operator's Well No	P-88
	. Wetherholt
API No. 47	

Gil und Gas Bivision

WELL OPERATOR'S REPORT OF

			OF.			
		AND /OP	STIMULATING,	OR	PHYSICAL	CHANGE
DRILLLING,	FRACTURLING	MW/OIL	<u> </u>			

WEIL TYPE: Oil X / Gas / Liquid Injection (If "Gas," Production / Undergrou	/ Waste und Storage	e Disposal e/ Deep	/ / Shal	.low/)
LOCATION: Elevation: 867.16 Watershed Fu	dges Cre	ek		<u> </u>
District: Grant County Cal	ell	Quadrangle	Milto	n 7.5°
COMPANY Southeastern Gas Company				Cement
ADDRESS P 0 Box 2347, Chas., WV 25328	Caşing	Used in	Left	fill up
DESIGNATED AGENT Fred A. Radford	Tubing	Drilling	in Well	Cu. ft.
ADDRESS P 0 Box 2347, Chas., WV 25328	Size			
SURFACE OWNER Jerry E. Wetherholt	20-16 Cond.			
ADDRESS Route 2, Box 501 Milton, WV 25541	13-10"	15.0	15.0	
MINERAL RIGHTS OWNER Jerry E. Wetherholt	10-3/4 9x 5/8x	648.1	648.1'	To Surface
ADDRESS Milton, WV 25541	8 5/8		l .	200 sks.
OH AND CAS INSPECTIOR FOR THIS WORK Jerry	7	2568.3		50 sks.
Tephabock ADDRESS Ripley WV 25271	5 1/2			
PERMIT ISSUED April 9, 1985	4 1/2			
DRILLING COMMENCED May 11, 1985	3			
DRILLING COMPLETED July 11, 1985	2			
TE APPLICABLE: PLUGGING OF DRY HOLE ON				
CONTINUOUS PROGRESSION FROM DRILLING OR	Liners useđ			
REWORKING. VERBAL PERMISSION OBTAINED ON				
GEOLOGICAL TARGET FORMATION Berea Sand		Dej	oth 2502-	2514 feet
Depth of completed well 2568 feet	Rotary	/ Cab	le Tools_	<u> X .</u>
Water strata depth: Fresh 300, 830 feet;	Salt	 1385 fee	t	
	Ts coa	l being mi	ned in th	e area?No
Coal seam depths: 601-610		J		
OPEN FLOW DATA		3 -		orio feet
Producing formation Berea Sand	P	ay zone de	ptn 2501-	Show Phi /d
Gas: Initial open flow Show Mcf/d	Oil: I	nitial ope	u iiom	3110W Bbit/G
Final open flow 40 Mcf/d	F	inal open	ITOM (BDI/G
Time of open flow between in	itial and	final test	:s <u> 6 </u> !	ours
Static rock pressure 210 psig(surf	ace measur	ement) aft	er 24 ha	ours snut in
(If applicable due to multiple completi	on)			
Second producing formation	F	ay zone de	epth	feet
Case Initial open flow Mcf/C	l Oil: 1	nitial op	SU LION_	
Final open flow Mcf/c	d Oil: I	final open	ITOM	
Time of open flow between in	nitial and	final tes	ts	nours
Static rock pressurepsig(surf	ace measure	ement) aft	erh	ours shut in NOV 12 19
				reverse side

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

Berer

Well perforated 2501'-2511' with 10 holes - .39". Well was fractured on 7/18/85. A 75 Quality foam frac was used: 500 Gals. 15% HCI; 40,000# 20/40 Sand; 250 Bbls. water; 400,000 SCF Nitrogen; Bd. 2500#; ISIP 1330#; 15 min. 1060#.

WELL LOG

			illers"	
FORMATION COLOR	HARD OR SOFT	TOP FEET	BOTTOM FEET	REMARKS Including indication of all fresh and salt water, coal, oil and gas
Top Soil Sand Red Rock Blue Sand Slate Red Rock Blue Slate White Slate Sand Slate Red Rock Slate Red Rock Slate Red Rock Slate Sandy Shale Sand Slate Red Rock Slate Red Rock Slate Red Rock Slate Sand		0 5 25 60 75 93 102 112 127 155 165 179 187 245 250 280 300 355 405 415 425 605 610 675 685 735 740 805 835 900 940 975 1020 1080 CONTIN	5 25 60 75 93 102 112 127 155 165 179 187 245 250 280 300 355 415 425 605 610 675 640 675 640 805 835 940 975 1020 1080 1340	Fresh Water - 300' Coal - Approx. 5' Fresh Water - 835'

(Attach separate sheets as necessary)

Southeastern Gas Company

Well Operator

Vice President

198 Date: October 18,

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."

Sheet No. 2

Well Operator: Southeastern Gas Company

Date: October 18, 1985

Operator's Well No.

11 No. P-88

Farm: J. E. Wetherholt

API No. 47-011-0802 Pa 2.

FORMATION COLOR HARD OF SOFT	TOP FEET		Remarks: Including indi- cations of all fresh and sal water, coal, oil and gas.
Sand Slate Salt Sand Slate Red Rock Slate Red Rock Slate Little Lime Pencil Cave Big Lime Slate INjun Sand Shell Coffee Shale Berea Sand Shale	1340 1348 1385 1605 1620 1631 1665 1670 1715 1740 1745 1936 1964 2080 2490 2502 2514	1348 1385 1605 1620 1631 1665 1670 1715 1740 1745 1936 1964 2080 2490 2502 2514 2568	Salt Water 1385' S/O, S/G, 1785' Salt Water - 1985' S/O - 2502-2514'

FORM V-2(B)		TILE (COPV	2
(Obverse) 7-83 ***	and the same of			3
lated	APR	- 9	1985	



è	Date: April 4,	19_85	,
ı	Omerator's		

Well No ._

P-88 3) API Well No. 47
State - 011 - 0802

County Permit

OIL & GAS DIVISION DEPT. OF MINES

STATE OF WEST VIRGINIA DEPARTMENT OF MINES, OIL AND GAS DIVISION APPLICATION FOR A WELL WORK PERMIT

4) WELL TY		to a							
ž									/ Shallow/)
5) LOCATIO	N: Ele	vation: _		16			Fudges Cr		
		trict:			~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~	County:	Cabell	Quadrangle: _	Milton 7.5'
6) WELL OP				n Gas	s Compai	ny	7) DESIGNATE	DAGENT J. C.	Liming
Address	-) Box			***************************************		Address	P O Box 234	17
	<u>Cha</u>	rlest	on, WV	<u> 2532</u>	28	***************************************		Charleston,	WV 25328
8) OIL & GA				FIED			9) DRILLING C	ONTRACTOR:	
Name	Jerry					-	Name	Unknown	
Addres:	-		x 101-		·		Address		
	Rip	oley,	WV 252	71					
0) PROPOSE	D WELL V	VORK:	Drill	X	_/ Drill	deeper	/ Redrill	/ Stimulate	X /
			Plug of	f old f	ormation		orate new formation		Commence of the commence of th
						vell (specify)			
1) GEOLOGI	CAL TAR	GET FOR	MATION,		Berea	Sandston	ıe		
						2550 fee		p ==	
13) Appro	ximate trata	depths:	Fresh,		23	O_feet; sa	alt,1	450 feet.	
14) Appro	ximate coal	seam dep	ths:	6201	- 624	ls	coal being mined in th	e area? Yes	/ NoX/
5) CASING									
CASING OR		SPEC	IFICATIONS	;	1	FOOTAGI	E INTERVALS	I CEMENT FILL-UP	PACKERS
TUBING TYPE	Size	Grade	Weight per ft.	New	Used	For drilling	1	OR SACKS	T / A C A C L D R C
Conductor	13-3/8		·	, , , ,	X	rot utming	Left in well	(Cubic feet)	
Fresh water	10-3/4		32.75		X	660'	20 ° 660 °	To Surface	by rule 15.0
	8-5/8		20.0		X	2120'	2120'	-11	
ntermediate	1 3/1	11/22	20.0			2120	2120	100 sks.	Size
Production	7	N-80	23 0		x	2EEQ!	25501	TO -1	mat on Hoak
Tubing	#	J-55	1	X		2550°	2550'	50 sks.	the as reg a
iners	2 3/4	0-33	4.0				2550'	- Lys	TUC 15.00
Juiter 8								1	Perforations:
	1								Top Bottom
**************************************	\dagger	*							1
	<u></u>		1		<u> </u>			1	
							wikts		
						CELOE LIGE	- ONIT 37		
			·			FFICE USE			
					IJ	RILLING P	FKMII		
ermit number_		47-01	1-0802					A p	ril 9, 1985
								Da	ţe
his permit cove	ering the we	ll operato	or and well	locatio	on shown be	elow is evidence	e of permission grant	ed to drill in accordar	nce with the pertinent legal re-
uirements subje	ect to the co	inditions (contained b	nerein a	and on the re	everse hereof !	Notification must be	piven to the District Oi	il and Cac Inchestor (Refer to
istrict oil and g	ne construc	tion of ro	aus, locau hefore ac	ons and	pits for an	y permitted wo	rk. In addition, the w	ell operator or his cor	ntractor shall notify the proper
ne permitted w everse hereof.	ork is as de	scribed in	the Notice	e and A	application,	plat, and reclai	mation plan, subject	to any modifications a	and conditions specified on the
ermit expires	Apr	il 9,	1987			unlare un	all work is someone		
cimin expires _				· · · · · · · · · · · · · · · · · · ·		unless we	en work is commenced	i prior to that date and	prosecuted with due diligence.
			Т						
Bond:	Agent		Plat:	Casin	ig F	ee ¶	7-0		
143	m	J	mI	M	11/2m	116			7//
	- * * *	- //	12				1 / Mar.	a least	1 / 10110
							- JULE	yeurs J	- / / / /
IOTE: Vaan	me come of	thic mar-	it martad -	+ +h = ="	millima lasset		Adyr	Inistrator, Office of C	Il and Gas
OTE: Keep o	me copy of	uns perm	m posted a	it the a	muing locati	On.		/	

See the reverse side of the APPLICANT'S COPY for instructions to the well operator.