

3-3 Twenty Mile Geak East



DIVISION OF OIL & GAS DEPARTMENT OF ENERGY



State of West Birginia

DEPARTMENT OF ENERGY
Old und Gas Bivision

Date			ary	8,]	988	
Oper	ato	r's				
Well			8,	GW-19	72	
Farm	F	ynn	Co	al &	Lumk	per Co.
API						

WELL OPERATOR'S REPORT OF

DRILLING, FRACTURING AND/OR STIMULATING, OR PHYSICAL CHANGE

OCATION: Elevation: 1695.46 Watershed Pe	eters Cree	k		
District: Grant County Nicho	olas	Quadrangle	e Gilbo	a
OMPANY Cities Service Oil & Gas Corporation				
DDRESS P. O. Box 873, Charleston, W 25323	Cacine	Used in	Left	Cement
PESIGNATED AGENT Paul D. Phillips	Caşing Tubing	Drilling		fill up Cu. ft.
DDRESS P. O. Box 873, Charleston, WV 25323	Size	<u> </u>	III WELL	- Cu. 1.c.
SURFACE OWNER Flynn Coal & Lumber Company	20-16		decuments of the control of the cont	i si sinoma na
DDRESS 322 Brady Ave., Summersville, W 26651	Cond.		20	15 sx
TINERAL RIGHTS OWNER Flynn Coal & Lumber Company	9 5/8	767	30 767	Surface
ADDRESS 322 Brady Ave., Summersville, W 26651	8 5/8	1,0,		
OIL AND GAS INSPECIOR FOR THIS WORK Rodney	7	1815	1815	Surface
Dillon ADDRESS P.O. Box 1526, Sophia, WV 25921	5 1/2			
PERMIT ISSUED August 17, 1987	4 1/2	6640	6640	TOC 1340
ORILLING COMMENCED September 30, 1987	3			
ORILLING COMPLETED October 16, 1987	2			
IF APPLICABLE: PLUGGING OF DRY HOLE ON	Liners			
REWORKING. VERBAL PERMISSION OBTAINED	used			
CN				
GEOLOGICAL TARGET FORMATION Devonian Shale/Biq	Lime	Dep	th <u>1800-66</u>	30 fee t
Depth of completed well 6713 feet R	otary_x_	/ Cabl	e T∞ls_	
Water strata depth: Fresh 455 feet;				
Coal seam depths: 455 (48") 759 (48")	Is coal	being min	ed in the	e area? No
OPEN FLOW DATA				
Producing formation Devonian Shale/Big Lime	ë Pay	zone dep	th_1954-6	539 feet
Gas: Initial open flow Mcf/d				
Final open flow 358 Mcf/d	Fir	al open f	low	Bb1/d
Time of open flow between initi	al and fi	nal tests	hc	ours
Static rock pressure 405 psig(surface	measuren	ment) afte	r <u>60</u> hou	ırs shut ir
(If applicable due to multiple completion-	-)			
Second producing formation	Pay	zone dep	th	feet
Gas: Initial open flow Mcf/d				
Final open flow Mcf/d	Oil: Fir	nal open f	low	Bbl/d
	ial and fo	inal tests	; h	oursFFR a c
Time of open flow between init	Lai alu I.			a game from

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

Devonian Shale Devoni C4641813

WELL LOG

FORMATION COLOR HARD OR SOFT	TOP FEET	BOTTOM FEET	REMARKS Including indication of all fresh and salt water, coal, oil and gas
Surface Sand Sand Shaley Sand Shale Sand Shale Sand Shale Sand Shale Sand Shale Sand Shaley Sand Big Lime Sunbury Shale? Devonian Shale Onondaga	0 550 620 820 1000 1150 1280 1390 1580 1620 1670 1710 1800 2070 2570 6630	8	FW @ 455'; Coal @ 455' (48") Coal @ 759' (48") SW @ 1280' FEB 0 9 1988 DIVISION OF OIL & GAS DEPARTMENT OF FINESES
	404 813 816	2570 - 380 3800-5100 5100-5700	•
4643 expl. ftg.			

(Attach separate sheets as necessary)

Cities Service Oil and Gas Corporation						
Well Operator Paul D. Phillips, Operations Manager						
Van O. Phillips						
By: Paul D. Phillips, Operations Manager						
Date: February 8, 1988						

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 and, encountered in the drilling of a well."

FEB 1 6 1988



1)	Date: July	31	. 19. 87	7
	Operator's	<i>a</i> 1	GW-1972	,

3) API Well No. 47 067 -0653
State County Permit

STATE OF WEST VIRGINIA

DIVISION OF OIL & GAS DEPARTMENT OF ENERGY

DEPARTMENT OF ENERGY, OIL AND GAS DIVISION

DEPARTME	NT OF E	NER*GY		AF	PLICA	TION FOR A WEI	L WORK PERMIT		
4) WELL TYI	PE: A O	il	/ Ga	as <u>X</u>					
		f ''Gas'', I			<u> </u>	/ Underground	storage	/ Deep	_/ Shallow <u>X</u> /)
5) LOCATIO	N: Ele	vation: _	1620		/-		Peters Creek		011
	Dis	trict:	Jeff	erson	1 4		icholas 06		Gilboa 7.5 364
6) WELL OP				<u>ice</u>	COL	E: <u>700</u>	7) DESIGNATED	AGENT Paul I	
Address	<u>P.</u>	0. Box	<u>c 873</u>	300	- <u> </u>		Address	P. O. Box 87	
		rlesto	-		323			Charleston,	WV 25323
.8) OIL & GA				FIED			9) DRILLING CO		
NameI							Name N	<u>/A</u>	
Address		0. Box					Address		
	Sop	hia, V	₩ 25	921					
10) PROPOSE	D WELL V	WORK:	Drill	X	_/ Drill	deeper	/ Redrill	/ Stimulate	<u>X.</u> /
			Plug of	ff old f	ormation	n/ Perfo	ate new formation		
			Other p	hysical	change i	n well (specify)			
11) GEOLOGI	CAL TAR	GET FOR	MATION	, <u>De</u>	vonia	ın Shale, Bi	g Lime		
12) Estima	ited depth o	of complet	ed well.	0.3	330	feet		n:::•7	
13) Appro	ximate trat	a depths:	Fresh, 2	4 Ne	ma316	155/leet; sal	,812,901,12	143 feet.	
14) Appro	ximate coal	l seam dep	ths: 1060	1-X to	ma (1s co		area? Yes	/ No/
15) CASING A	AND TUBI	NG PRO	GRAM /	FORM		C-381,47 FOOTAGE	748749	7546	
CASING OR	II		IFICATION		1 101	FOOTAGE	INTERVALS	CEMENT FILLUP	PACKERS
TUBING TYPE	Size	Grade	Weight per ft.	New	Used	For drilling	Left in well	OR SACKS (Cubic feet)	
Conductor	13-3/8		48	X		. 40	40	15 sxs	Kinds
Fresh water	9-5/8	ì	32	X		660 050	1600	Surface By	3815R18-11.22
Coal	7 - 7 / 0	K-55	23	X		1710	1710	Surface OP	Baies 38 CSP 18-11.1
1	₩	_K-JJ	-23-	1-^-			1 1/10	Surrace	
Intermediate	/ 1/0	77	11 (1 ,,		6330	(220	556 cuft Of	Bophs 38CSR18-11.
Production	4-1/2	K-55	1	X		6330	6330	1330 COLLES	3433333
Tubing	2-3/8	J-55	4.6	_X	l	6330	6330		Perforations:
Line. s	1		1	 					Top Bottom
	· · · · · · · · · · · · · · · · · · ·			 	-				20,000
			-	 					
	JL	<u> </u>	<u> </u>	1	L	Ц	1	Ш	<u> </u>
						OFFICE USE	ONLY		
						DRILLING PI			
						DRILLING	DESIVER I		
Permit number_	47-0	67 - 065	3			_		August 17	19 87
_							*	Dat	e
This permit cove	ering the w	ell operate	or and we	ll locati	on show	n below is evidence	of permission grant	ed to drill in accordar	ice with the pertinent legal re-
quirements subj	ect to the co	onditions	contained	herein a	and on th	ne reverse hereof No	tification must be gi	ven to the District Oil	and Gas Inspector, (Refer to tractor shall notify the proper
(o. 8) Prior to the	e construct	tion of ros or 24 hour	ids, locati s before a	ons and ctual pe	pits for rmitted	any permitted work work has commenc	in addition, the w	ren operator or ms con	tractor shan notify the proper
									nd conditions encoified on the
The permitted w reverse hereof.	ork is as d	escribed in	the Noti	ce and A	Applicati	on, plat, and recian	iation pian, subject	to any modifications a	nd conditions specified on the
	Augu	st 17,	1989			unless we	ll work is commenced	d prior to that date and	prosecuted with due diligence.
Permit expires _						umess we		a prior to that water are	p
[T					7	
Bond:	Agent	: 1	Wat:	Ŋash	100	Fee WPV	BEFE	Other	
			VX F	XYX	15 10	123 XXX	X7.13		
			ال روا	J// L	<u> </u>	2073 KV -	4		
		U	1		χı		chy // Ist	Courton h. Dr	Januarit Hasse
NOTE: Keep o	one copy of	thic norm	haton tir	at the d	Irilling Ic	ocation		- North Dy 1	- 1 -
rorr. week c	me copy of	ans pern	in posicu			/ /	rrector, wi	vision of Oil	and/Gas rue

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