





State of Mest Birginia "

DEPARTMENT OF ENERGY Oil and Gas Division

Date	Ju	ne_17, S	198	7	
Opera	ator'	S			
Well	No.	Tharp	No.	<u>A-</u>	1
Farm	Si	nnett,	Orva	al	
API N	ю.4	7	085		6643

DIVISION OF OIL & GAS DEPARTMENT OF ENERGY

WELL OPERATOR'S REPORT OF

DRILLING, FRACTURING AND/OR STIMULATING, OR PHYSICAL CHANGE

WELL TYPE:	Oil / $Gas_x$ / Li (If "Gas," Production	quid Injection / Waste x / Underground Storage	Disposal/ / Deep/ Shallow_x_/)
		Watershed Indian Run	

LOCATION:	Elevation:	935	Matershear Inutali	Kull
	District:	Murphy	County Ritchie	Quadrangle_Harrisville 7.5

COMPANY Constitution Petroleum Co.				
ADDRESS Rt. 4, Box 217, Marietta, Ohio	Casing	Used in	Left	Cement fill up
DESIGNATED AGENT Clarence Cunningham	Tubing	Drilling	in Well	Cu. ft.
ADDRESS Rt. 1, Box 189, Cairo, WV.	Size			
SURFACE OWNER Orval Sinnett	20-16 Cond,			
ADDRESS Rt. 1, Cairo, WV.	x13-368'	248	248	130 sks
MINERAL RIGHTS OWNER Duane Moats	9 5/8			
ADDRESS Rt. 1, Box 159, Harrisville, WV.	8 5/8	2059	2059	NA
OIL AND GAS INSPECIOR FOR THIS WORK Sam	7		<i>E.Q.J.J.</i>	
Hersman ADDRESS Smithville, WV.	5 1/2			
PERMIT ISSUED 8/2/83	4 1/2	4800	4800	NA
DRILLING COMMENCED 9/19/83	3			
DRILLING COMPLETED 9/25/83	2			
IF APPLICABLE: PLUGGING OF DRY HOLE ON			<u> </u>	
CONTINUOUS PROGRESSION FROM DRILLING OR REWORKING. VERBAL PERMISSION OBTAINED	Liners used			
CN	useu			
GEOLOGICAL TARGET FORMATION Marcellus		Dep	th 5500 $\pm$	feet
Depth of completed well 4800 feet	Rotary x			
Water strata depth: Fresh NA feet;				
Coal seam depths: None				e area? No
the second departs none		2		
OPEN FLOW DATA	-	3	. 1.	
Producing formation Balltown				
Gas: Initial open flow Mcf/d				
Final open flow approx. 30 Mcf/d				
Time of open flow between init				
Static rock pressurepsig(surface	ce measure	ment) afte	rhou	irs shut ir
(If applicable due to multiple completion				
Second producing formation Riley	Pa	y zone dep	th 4370-4	<u>409</u> feet
Gas: Initial open flow Mcf/d	Oil: In	itial oper	flow	Bbl/d
Final open flow commingled Mcf/d	Oil: Fi	nal open f	10w	Bbl/c
Time of open flow between ini	tial and f	inal tests	s NA ho	ours
Static rock pressure NA psig(surfac	e measuren	ent) after	ho	urs shut i
		(Conti	rue on S	eberse sode
		(00)101		TVVI

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

Exact perforations are not available. It is believed that the well was treated with a nitrogen frac at the interval 4056-4073 and later from 4370-4409.

FORMATION CO	olor hard or sof	FT TOP I	FEET	BOTTOM FEET	REMARKS Including indication of all fresh and salt water, coal, oil and gas
No log avai	llable to 2059				
Sandstone & Sandstone & Sandstone & Sandstone & including B Siltstone Wier	A Shale A Shale A Shale	10 15 20 20	0 500 000 500 059 078	500 1000 1500 2059 2078 2169	
Shale Berea Siltstone Gordon Shale Warren Shale		23 23 27 27 34 35	169 368 382 753 763 420 500 752	2368 2382 2753 2763 3420 3500 3752	DIVISION OF OIL & GAS DEPARTMENT OF ENERGY
Speechly Shale Balltown Shale Riley Shale Benson Shale	•	37 40 40 43 44 47	752 775 056 073 370 409 707 713	3775 4056 4073 4370 4409 4707 4713 4800	DEPARTMENT OF ENERGY
404	2382			TD.	
8(3)	3657				
Section Section	4700				
		(Attai	ch sep	arate sheets	as necessary)
		atternetastatte	A DESCRIPTION OF THE OWNER OWNER	citution Petro Operator	oleum Co.
			cla	rence cu	nunghan
		Dat	e:	118 187	
	egulation 2.02(i)		~ ~ ~		

WELL LOG

e e

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 wil, encountered in the drilling of a well."

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FORM IV-2								home of		
					OFWESTVIA			June 1	, 1	0.0.0
(Obverse) (6-82)					E A CAL	2	2) Operation	tor's	There A1	-
					1			/ell No47		63
DRILLING CONT					Stati Statis Listand		) AI 1	State	County	Permit
					E OF WEST VIR					
and the second		DE	PAKIM	ENT O	F MINES, OIL A	ND GAS D	IVISION			
II - A MERT			OIL AN	D GAS	WELL PERMIT	APPLICA	TION			
4) WELL TYPE										
				/	Underground sto Watershed:	orage	(Dum)	/ Deep	_/ Shallow	/)
5) LOCATION:	District:	Murchy			County			Quadrangle	Harrieville	
6) WELL OPER	ATOR	stitution 4	etrol	eua (	11)	DESIGN	ATED A	GENT Claper	nee Cunningh	0.00
Address	112+ 49	Box 217			The second second	Addre	ess	T. 1. BOX 1	89	
	Mariett	a, Uhio	15750					uiro. W. Vr	26337	
7) OIL & GAS	Due	ne Mostes								
ROYALTY C Address	OWNER	Box 159		7.50	12)	Addre		DR		
Address		ville, W.		26362		Auur		Test States	a special states	
Acreage	130				13	COAL C	WNER(S	S) WITH DECLAR	RATION ON RECO	RD:
8) SURFACE O	WNER	el Sinnett				Name _	In Ro	-		1
Address	1100 0	100 U. Ve		337		Addre	ess			
	103			001						
Acreage		FO.				Name _	and the second			
9) FIELD SALE Address	E (IF MADE)	10:				Addre		ACRE -	A CONTRACTOR OF CONTRACTOR	1
Address						COAL L	ESSEE V	WITH DECLARA	TION ON RECORD	):
10) OIL & GAS	INSPECTOR	TO BE NOTIFIE	D			Name _	lono		I and the second	1213
Name	INSPECTOR	conlight		_		Addre	ess			
Address		50 658-4					-			
		MAG			/ Dedaill	10-10	Enotu	re or stimulate	,	
15) PROPOSED					/ Redrill/ Perforate ne			re or sumulate		
	0	ther physical char	na in wa	II (specif	Fu)					- 13
16) GEOLOGICA	AL TARGET F	ORMATION.	Meres.	llun	Formation	(Devoni	ian)			1987
17) Estimate	d depth of com	pleted well,	550	0	feet					
		ta depths: Fresh		50	feet; s	alt,10	000	feet.		
19) Approxim	mate coal seam	depths:	No Ao		Is coal	being mined	d in the ar	ea? Yes	/ No	
20) CASING AN	D TUBING P	ROGRAM								
CASING OR	11	SPECIFICATIO	NS	1	FOOTAGE	INTERVALS		CEMENT FILL-UP	PACKERS	
TUBING TYPE	Size	Grade Weight per ft.	New	Used	For drilling	Left in	well	OR SACKS (Cubic feet)		
	Sile									
Conductor									Kinds	
Conductor Fresh water							-		Kinds	
Contraction of the second									Kinds Sizes	
Fresh water	8 8/8	23.0	7.7			1700		To Surface		
Fresh water Coal	8 8/8 4 1/2	23.0	AA AA					To Surface 300 eks		
Fresh water Coal Intermediate Production Tubing	in a los	1000	luni -			1700			Sizes Depths set	
Fresh water Coal Intermediate Production	in a los	1000	luni -			1700			Sizes Depths set Perforations:	Bottom
Fresh water Coal Intermediate Production Tubing	in a los	1000	luni -			1700			Sizes Depths set	Bottom
Fresh water Coal Intermediate Production Tubing	in a los	1000	luni -			1700			Sizes Depths set Perforations:	Bottom
Fresh water Coal Intermediate Production Tubing Liners	4 1/2	1000	luni -			1700			Sizes Depths set Perforations:	Bottom
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