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DIVISION OF OIL & GAS DEPARTMENT OF ENERGY



State of Mest Airginia DEPARTMENT OF ENERGY Gil und Gas Bivision

Date January 30, 1987
operator's
Well No. TV-106
Farm Chapman-Smith
API No. 47 - 079 - 1140

WELL OPERATOR'S REPORT

WELL TYPE: Oil / Gas X / Liquid Injection / Waste Disposal / (If "Gas," Production X / Underground Storage / Deep / Shallow X /)

OF DRILLING, FRACTURING AND/OR STIMULATING, OR PHYSICAL CHANGE

OCATION: Elevation: 907.01 Watershed				
District: Teays Valley County Putr	ıam	Quadrangle	e Mount	Olive
÷				-
OMPANY Teavee Oil & Gas Inc. 1901 Kanawha Valley Bldg. ADDRESS Charle ston. Wv 25301.			7	Cement
ADDRESS Charle ston, Ww 25301	Casing	Used in	Left	fill up
DESIGNATED AGENT Duane Bowers	Tubing	Drilling	in Well	Cu. ft.
ADDRESS P. O. Pox 27, Winfield, WW 25213	Size			
SURFACE OWNER V. C. Smith 11	20-16 Cond.			
ADDRESS P. O. Pox 27, Winfield, WV 25213	13-10"			
MINERAL RIGHTS OWNER Same as above	9 5/8	503	503	To surfac
ADDRESS Same as above	8 5/8			
OIL AND GAS INSPECTOR FOR THIS WORK Jerry	7	2379	2379	150 sks.
Tephabock ADDRESS Ripley, WV	5 1/2			
PERMIT ISSUED 12/10/85	4 1/2			
DRILLING COMMENCED 12/13/85	3 1/2		4002	290 cu.ft
DRILLING COMPLETED 12/18/85	2			
IF APPLICABLE: PLUGGING OF DRY HOLE ON				:
CONTINUOUS PROGRESSION FROM DRILLING OR REWORKING. VERBAL PERMISSION OBTAINED	Liners used			
CN CN				<u> </u>
GEOLOGICAL TARGET FORMATION Marcellus shale		Den	oth 440	o feet
Depth of completed well hill feet	Rotary X	Cabl	e Tools	telegraph of the contract of t
Water strata depth: Fresh 305 feet;				
Coal seam depths: N/A				e area? No
Coar seam depuis: N/A		2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2		edicales de constituir de la constituir de
OPEN FLOW DATA Production comingled from Bere	MANAGERY AND SON STORES OF STORES OF STORES	rogen		.
Producing formation Brown Shale				
Gas: Initial open flow 20 Mcf/d				
Final open flow 9 Mcf/d	Fi	nal open i	ElowN	I/A Bbl/c
Time of open flow between ini				
Static rock pressure 685 psig(surfa	ce measure	ment) afte	er_18 ho	urs shut ir
(If applicable due to multiple completion	n)			
Second producing formation Berea Sand	Pa	y zone dej	oth 2525	feet
Gas: Initial open flow N/A Mcf/d	Oil: In	uitial oper	n flow_N	i/A Bbl/c
Final open flow N/A Mcf/d	Oil: Fi	nal open :	flow <u>N</u>	/A Bbl/c
Time of open flow between in				
Static rock pressure 685 psig(surface	ce measurem	ment) after	r 48 hc	urs shut i
• ————————————————————————————————————				everse sid

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

Brown shale - perforated 3430-3900 w/ 38 shots (0,39 inches) Breakdown w/750 gallons

HCl 15% Pumped 90% intensified foam at 40 barrel:/min carrying 365 sacks of 20/40 sand

and 50 sacks 10/20 mesh sand with 651,850 scf of N2 in 129 barrel of 2% KCl water.

Breakdown 2100 psig pumped 1/2 frac sand away, dropped 15 perf ball, pumped remaining

sand away, set frac phug, shot 10 holes at 2511-2518 BEREA SAND, Breakdown w/500 gallons

HCl 15% breakdown 3250 psig. Pumped 75% foam at 16 barrel/min pressured to 4000 psig

screened off, foam flushed for 5 min, tried to pump into again, same results. Shut in

well at 2200 psig. Blowback through 1/4° choke 8 hours, 3/4° choke 12 hr., 2048 hrs.

WELL LOG

Surface Red rock 10 100 Sand and shale Red rock 10 100 Sand and shale Red rock 100 195 Fresh water 305¹ Sand and shale 100 195 Sand and shale 100 195 Sand and shale 100 195 Sand and shale 1105 Salt sand 1105 Salt sand 1106 Sandy shale 1691 1704 Maxton sand 1704 1715 1739 Little Lime 1739 1798 Slate & Shells 1633 1838 Fencil cave 1838 1838 Pencil cave 1838 1838 Sendy shale 2075 Shale 1838 2058 Keener sand 2058 2075 Shale 2075 Shale 2099 2180 Silty shale 2180 2190 2508 Berea sand 2508 2538 2727 Gordan stray 2727 2712 Gordan stray Cray shale 2742 3587 Gas DEPARTMENT OF ENEXRY Marcellus shale Onondaga limestone 0 10 100 100 110 100 110 100 110 100 110 100 110 100 110	FORMATION COLOR HARD OR SOFT	TOP FEET	BOTTOM FEET	REMARKS Including indication of all fresh and salt water, coal, oil and gas
	Red rock Sand and shale Red rock Sand and shale Salt sand Sandy shale Maxton sand Sandy shale Little Lime Slate & Shells Pencil cave Big Lime Keener sand Shale Big Injun sand Silty shale Coffee sand Berea sand Gray shale Gordan stray Gray shale Brown shale White slate Marcellus shale	10 100 495 706 1405 1691 1704 1715 1739 1798 1833 1838 2058 2075 2099 2180 2490 2508 2508 2727 2742 3587 3950 4270	100 495 706 1405 1691 1704 1715 1739 1798 1833 1838 2058 2075 2099 2180 2490 2508 2538 2727 2742 3587 3950 4270 4400	Gas Show gas Gas FEB 18 198/ Gas DIVISION OF OIL & GAS DEPARTMENT OF ENERGY

(Attach separate sheets as necessary)

	Teavee Oil & Gas Inc.	
CONTRACTOR OF THE PERSON OF TH	Well Operator	
Bu.	Design	nated Agent
Date	2/2/87	
Date	e: 2/2/87	

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 the drilling of a well."

FORM WW-2(B) FILE COPY (Obverse)

7/85





1)	Date: <u>Pecember</u> 09	13	85	-
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2) Operator's Well No. V - 106

3) API Well No. 47 079 -1140

STATE OF WEST VIRGINIA

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		ISION Q ARTMEN			AI	PPLICAT	TION FOR A	WELL W	ORK PERMI	I		
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47	** I			Production		X	/ Undergro	und store	o.e	/ Deep	_/ Shallo	X .
5)	LOCATIO	-	vation:	907	07	A	Watershe		ve &	Tive nty M	11	reek
,				eavs	Vall	ey 8	County:			Quadrangle: \(\frac{1}{2}\)		
6)	WELL OP	-		01/8-6	asln	COL	E: 4890	0 7)	DESIGNATE	DAGENT D. K		
	Address	190	1 Kon	ancha	Val	le v B			Address	1901 Kana	tha Vo	aller Bldg
		<u>C</u>	arles	for N	<u> </u>	1 _{ZS}	301_			Charleston	WVZ	5361
8)	OIL & GA				FIED			9)	DRILLING (CONTRACTOR:		
	Name	<u>Carlo</u> :	<u>s Hiv</u>	<u>67</u> 2					Name <u>Cl</u>	int Hurt &	Assa.	iates
	Address		ElKVI	<u>2 W 1</u>	NN				Address	P. O. 130 x	197	3
		***************************************	····				erra de mararada e e de mara de mara			Midland	Ţx.	79702
10)	PROPOSE	D WELL	WORK:	Drill	<u> </u>	_/ Drill	deeper		Redrill	/ Stimulate	<u>X_</u> /	
				Plug of	f old f	ormation	/ P	erforate i	new formatio	n/		
				Other p			n well (specify)			8 6 8		
11)	GEOLOG	CAL TAR	GET FOR	MATION			rcellu	<u> 5</u>	<u>~ale :</u>	<u> </u>	**	
	12) Estima	-	•		A	<u> Ž00</u>		_feet	(D			
	13) Appro				<u> 50</u>	7 .	feet;	salt,	1000	feet.		\checkmark
	14) Appro		_		$-\mathcal{N}_{-}$	/A_		ls coal be	ing mined in tl	ne area? Yes	/ No	
15)	CASING A	AND TUBI			/							
	ising or Jbing Type		SPEC	CIFICATION: Weight	5		FOOT	AGE INTER	VALS	CEMENT FILL-UP OR SACKS	P/	ACKERS
		Size	Grade	per ft.	New	Used	For drilling		Left in well	(Cubic feet)		
Con	ductor	0.5/		 							Kingts	
Fres	h water	9 5/8		32	X		500		500	To Surface	By	rule 150
Coal]	 				-	2200		7.6.6	# : 	Sizes	f
	mediate	3 1/4		120	X		2300	-	<u> </u>	150 sks		
	duction	3/2		<u> 7, Z</u>					500	ZOD SKS,	DENOSE .	required
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Line			<u> </u>	1	 					4 /	Perforations	
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Peri	mit number_	47-	<u>079-1</u>	140					#====	·····	mber 1	0 1985
	• .		**							Da	-	
i nis auir	ements subi	ering the w ect to the c	ell operat onditions	or and we.	li location herein a	on snowr and on th	i below is evid: ie reverse herec	ence of pe	rmission gran	ted to drill in accordan	ice with the	pertinent legal re-
io. 8) Prior to th	e construct	ion of ro	ads, locatio	ns and	pits for a	any permitted v	vork. In	addition, the	given to the District Oil well operator or his cor	and Gas Ins itractor shall	notify the proper
distr	rict oil and g	as inspecto	or 24 hour	rs before a	ctual pe	ermitted v	work has comm	nenced.)				
		ork is as d	escribed in	n the Notic	e and A	Application	on, plat, and re	clamation	plan, subject	to any modifications a	nd condition	ns specified on the
	rse hereof.	Dec	omhor	10,	1981	7	_					
Peri	mit expires.	<u> </u>	CHINET		100	£	unles	s well wor	k is commence	ed prior to that date and	prosecuted ·	with due diligence.
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I	Bond:	Agent	:]	Plat:	Casi	ng	Fee W	PCP	S&E	Other		
ewer (Dage)		A1_ 13			M		945-1	γ_{ij}	mil	e de la companya de	1	
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See the reverse side of the APPLICANT'S COPY for instructions to the well operator.

Diractor, Division of Oil and Gas/

File

NOTE: Keep one copy of this permit posted at the drilling location.