



Sinde of West Birginia DEPARTMENT OF ENERGY Gil und Cas Zivision

Date			13,19	87	
bpera Well	itor's No.		TV-1C	8	
Farm		Cru	ım		
API N	10. 47		079		1143

WELL OPERATOR'S REPORT

DRILLING, FRACTURING AND/OR STIMULATING, OR PHYSICAL CHANGE

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

OCATION: Elevation: 993.53 Watershed	Left For	rk		NO THE PARTY OF TH
District: Teays Valley County Put	nam	Quadrangle	Mount (Olive
			William Commission of the Comm	
CMPANY Teavee Oil & Cas, Inc. 1901 Kanawha Valley Bldg. DDDRESS Charleston, WV 25301				Cement
	Caşing	Used in		fill up
ESIGNATED AGENT Duang Bowers	Tubing	Drilling	in Mell	Cu. ft.
DDRESS P.O.Box 27, Winfield, WV 25213	Size 20-16			
URFACE OWNER Edward and Kathryn Crum	Cond.			
DDRESS P.O. Pox 117, Charlton Heights, WV	13-10"			
INFRAL RIGHTS OWNER Forest Grant Etal	9 5/8	776	776	275 sk
DDRESS Winfield, WV	8 5/8			
OIL AND GAS INSPECTOR FOR THIS WORK Jerry	7	2208	2208	175 sk
Tephabock ADDRESS Ripley, WV	5 1/2			
PERMIT ISSUED October 17, 1986	4 1/2			
DRILLING COMMENCED 11/17/86	31/2		4438	215 sks
DRILLING COMPLETED 11/23/86	2			
F APPLICABLE: PLUGGING OF DRY HOLE ON	Liners			
CONTINUOUS PROGRESSION FROM DRILLING OR REWORKING. VERBAL PERMISSION OBTAINED	used			
N			1	
GEOLOGICAL TARGET FORMATION Marcellus shale		Dep	oth lili	50 fe
Depth of completed well / 1/151 feet	Rotary x	/ Cab]	le Tools_	
Water strata depth: Fresh 740 feet				
Coal seam depths: N/A		being mir	ned in th	e area? 1
distributed and response and re				
DPEN FLOW DATA	, [†]	ം ജനാവ ദ്രാ	h 3 70	in fe
	and the same of th			
Gas: Initial open flow Show Mcf/d	011: 11	ntiai ope	E1 N	// Bh1
Final open flow 35 Mcf/d				
Time of open flow between in				
Static rock pressure 825 psig(surf		ment) altu	er 72 no	ours sout
(If applicable due to multiple completi	on)	_		<i>.</i>
Second producing formation N/A	Pa	ay zone de	pth	
Gas: Initial open flow Mcf/d	Oil: I	nitial ope	n flow	Bbl
Final open flow Mcf/d	Oil: F	inal open	flow	Bb]
Time of open flow between in	itial and	final test	sl	nours
Static rock pressurepsig(surfa	ice measure	ment) afte	rh	ours shut
				reverse si
		, 00,		* * * *

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

34 holes from 2696-1005. Treated with 90% quality foam, 1000 gallon HCl 15%, 500 sks. 20/40 sand, 100 sks. 16/30 sand. 194 bbl 3% KCl water. Breakdown 2740 psig treated at 80 bbl/min to initiate fracture slowed rate to 70 bbl/min to put 20/40 sand away slowed rate to 50 bbl/min. to put 16/30 sand away. Total N_z 645,000 scf shut in psi 1100 psig Blew well back through 1/4 inch choke 6 hours 3/8 inch choke 6 hours 1/2 inch choke 6 hours, 1 inch choke 3 hours, 2 inch - 24 hours

WELL LOG

Surface Red rock Sand and slate Red rock Sand and slate Red rock Sand and slate Redrock Redroc	FORMATION COLOR HARD OR SOFT	Mos Frei	BOTTOM FEET	REMARKS Including indication of all fresh and salt water, coal, oil and gas
	Red rock Sand and slate Red rock Sand and slate Redrock Sand and slate Slate Slate Salt sand Slate Big Lime Shale Big injun sand Siltstone Shale Coffee shale Berea sand Gray shale Gordon sand Gray shale Brown shale White slateJA Marcellus shale Marcellus shale Top corniferous lime	20 350 400 450 800 900 1390 1486 1804 1842 2057 2083 2153 2394 2520 2532 2560 2710 2770 3626 4000 4320	350 400 450 800 900 1390 1486 1804 1842 2057 2083 2153 2394 2520 2532 2560 2710 2770 3626 4000 4320 4454	Show gas Show gas

(Attach separate sheets as necessary)

Teavee Oil & Gas,	Inc.
Well Operator	
By: Luanat	Sowers Geologist
Date: 4/13/) 7

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 with provided in the detailed of a well."

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FORM WW-2 (Obverse) 7/85	(B) FILE	COPY				STAPE	WEST	(SIZIALIA)	Date: Operator's Well No API Well I	1 V	7 -108 	1143 Permit
Lab OC	T 17 19	37	ze) Di	EPARTI			WEST V	IRGINIA L AND GAS DI	VISION			4
DIVISIO	IN OF OIL	& GAS ENERG		<u>A</u>				L WORK PERM				
5) LOCAT	В (І	n 'Gas'', vation:	Producti	Das On 73.51	X 3		iderground	storage Left Fo	/ I	Deep	_/ Shallow	<u>X</u>
,	Dis	trict: It	4 110	Calle Cas	llex	95 Co DDE: 5 Blog		Putnam 7) DESIGNAT Address	ED AGEN	T Duas Bex 2	7_7	
Name _	GAS INSPEC		olonel		2.5	301	-	9) DRILLING Name	CONTRA	CTOR:	1. WV 7	'SZ13
Addr	_8	iphora	WV	× ×	/ -	***	-	Address			·/	
10) PROPO	SED WELL	WORK:						/ Redrill ate new formation		Stimulate/	/	
13) App	GICAL TARG mated depth coroximate trata proximate coal	of complet a depths:	ed well, Fresh, ₋	4	150	48 f	feet eet; salt Is co	1000	fee		/ No	×
15) CASING CASING OR TUBING TYPE	AND TUBI	NG PRO		I Per	rmi ⁻ Used	+ + 3	FOOTAGE I		CEM	ENT FILL-UP OR SACKS Cubic feet)	PAC	KERS
Conductor	51.50							JAN III WEI		Cubic feet)	Kinds	
Fresh water Coal	9 %		310	\perp_{\perp}^{X}		700	7 7 18	3/10 77S		Surface	Per Ci Sizes	112/5,0
Intermediate Production	17		えじ_	X		220)0	2200		5 s ks .	Depths set	
Tubing Line, s	3/2	Smls.	9,2	X				4450	35 dr,	0 shs AS RC	Petud digns.C	d by
									Kul	213.01	Тор	Bottom
					<u> </u>							
							E USE C					
		47_070	11/2			DRILL	ING PE	RMIT				
Permit number This permit co quirements sub No. 8) Prior to district oil and	vering the we oject to the co	nditions c on of roa	or and we contained	ll location herein a	ind on i pits for	the reverse any permi	hereof Noti	of permission gran fication must be In addition, the	nted to dril given to the well opera	Dat l in accordan	ce with the ne	rtinent legal re- ctor, (Refer to otify the proper
reverse hereof.		scribed in Octobe						tion plan, subject				
Permit expires		70000	1 1/9	1700			unless well	work is commence	ed prior to	that date and	prosecuted wit	h due diligence.
Bond:	Agent:	H	hat:	Capi	ng	Fee	WEGP	SEE	Other			

Director, Division of Oil and Gas

File

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

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