

NEW MEXICO OIL CONSERVATION COMMISSION
MULTIPLE POINT AND ONE POINT BACK PRESSURE TEST FOR GAS WELL

Form C-122
Revised 9-1-61

JUL 9 1982

Type Test ☒ Initial ☐ Annual ☐ Special						Test Date 6-11-82	
Company TXO Production Company				Conductor <i>Duke Gas Pipeline Co.</i> Burton Flat		ARTISAN, ORICE	
Pool <i>31-1-1-1</i>				Formation Morrow		Unit	
Completion Date 3-28-82		Total Depth 11,876		Plug Back TD 11,733		Elevation 3273 G1.	
Casing Size 4 1/2"		Wt. 11.6#		Set At 4.000		Perforations: From 11,703 To 11,716	
Tubing Size 2 3/8"		Wt. 6.4#		Set At 1.995		Perforations: From <u>OPENENDED</u> To <u>OPENENDED</u>	
Type Well - Single - Bradenhead - G.G. or G.O. Multiple						Packer Set At 11,490	
Single						County Eddy	
Producing Thru Tubing		Reservoir Temp. °F 197°		Mean Annual Temp. °F 60°		Baro. Press. - P _a 13.2	
L 11,394		H 11,394		Cg .6095		Prover 3.068	
				% CO ₂ .960		% H ₂ S -0-	
				% N ₂ .320		Taps Flange	
						New Mexico Meter Run 3.068	

FLOW DATA						TUBING DATA		CASING DATA		Duration of Flow	
NO.	Prover Line Size	X	Orifice Size	Press. p.s.i.g.	Diff. h _w	Temp. °F	Press. p.s.i.g.	Temp. °F	Press. p.s.i.g.		Temp. °F
SI					2'		2855		PKR.	CHOKE	24 Hou
1.	3.068	x	1.500"	165	25"	90°	2475	80°		6/64	1 Hou
2.	3.068	x	1.500	185	39"	80	2280	80		8/64	1 Hou
3.	3.068	x	1.500	200	54"	76	1887	83		11/64	1 Hou
4.	3.068	x	1.500	225	70"	82	1460	86		15/64	1 Hou
5.											

RATE OF FLOW CALCULATIONS							
NO.	Coefficient (24 Hour)	$\sqrt{h_w P_m}$	Pressure P _m	Flow Temp. Factor Ft.	Gravity Factor Fg	Super Compress. Factor, Fpv	Rate of Flow Q, Mcfd
1	11.13	66.7458	168.2	.9723	1.2805	1.013	937
2	11.13	87.9193	198.2	.9813	1.2805	1.015	1248
3	11.13	107.2977	213.2	.9850	1.2805	1.017	1532
4	11.13	129.1278	238.2	.9795	1.2805	1.019	1837
5							

NO.	R _i	Temp. °R	T _r	Z	Gas Liquid Hydrocarbon Ratio	Mcf/bbl
1	.2492	550	1.5236	.975	A.P.I. Gravity of Liquid Hydrocarbons	Deq
2	.2936	540	1.4958	.970	Specific Gravity Separator Gas	XXXXXXX
3	.3158	536	1.4848	.967	Specific Gravity Flowing Fluid	XXXXXX
4	.3528	542	1.5014	.964	Critical Pressure	675 P.S.I.A.
5					Critical Temperature	361 R

NO.	P _i ²	P _w ²	P _w ²	P _c ² - P _w ²	(1) $\frac{P_c^2}{P_c^2 - P_w^2} =$	(2) $\left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n =$
1		2488.2	6191.14	2035.43	1.36	1.1813
2		2293.2	5258.77	2967.80		
3		2000.2	3610.76	4615.81		
4		1473.2	2170.32	6056.25		
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Absolute Open Flow 2170 mcf/D				Mcf/d @ 15.025	Angle of Slope @ 56° 59'	Slope, n .54407
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Remarks: * Calculated from known Bottom Hole Pressures.

Approved By Commission:	Conducted By: T.B.	Calculated By: J.W.	Checked By: M.K.
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