

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

Form C-122
Revised 9-1-65

RECEIVED

Type Test ☒ Initial ☐ Annual ☒ Special				Test Date 12-20-72		DEC 29 1972	
Company Texas Oil & Gas Corp.				Connection Transwestern Pipeline Co.			
Pool S. Carlsbad <i>Atoka</i>				Formation Atoka		Unit O. C. C. J ARTESIA, OFFICE	
Completion Date 10-1-70		Total Depth 12,143		Plug Back TD 11,553		Elevation 3307 KDB	
Csg. Size 5 1/2		Wt. 20		Set At 4.778		Perforations: From 11,044 To 11,216	
Tbg. Size 2 3/8		Wt. 4.7		Set At 1.995		Perforations: From To	
Type Well - Single - Bradenhead - G.G. or G.O. Multiple Single				Packer Set At 10,950		County Eddy	
Producing Thru Tubing		Reservoir Temp. °F 175°		Mean Annual Temp. °F 11,200		Baro. Press. - P _a 13.2	
L 10,950		H 10,950		G _g 0.60		% CO ₂ 1.08	
				% N ₂ 0.29		% H ₂ S	
				Prover		Meter Run X	
						Taps Flange	

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	
1.	2.067	X	1	620	30	70	3800	750	70	Packer	24 hrs
2.											
3.											
4.											
5.											

RATE OF FLOW CALCULATIONS							
NO.	Coefficient (24 Hour)	$\sqrt{h_w P_m}$	Pressure P _m	Flow Temp. Factor Ft	Gravity Factor F _g	Super Compress. Factor, F _{pv}	Rate of Flow Q, Mcfd
1.	4.946	136.4	620	0.9905	1.291	1.067	920
2.							
3.							
4.							
5.							

NO.	P _t	Temp. °R	T _t	Z	Gas Liquid Hydrocarbon Ratio	Dry	Mcf/bbl.
1.	1.137	530	1.5	0.844	A.P.I. Gravity of Liquid Hydrocarbons	None	Deg.
2.					Specific Gravity Separator Gas	0.60	X X X X X X X X
3.					Specific Gravity Flowing Fluid	X X X X X	
4.					Critical Pressure	671	P.S.I.A. 671
5.					Critical Temperature	358	R 358

NO.	P _t 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.		763	582.2	13,457.8	1.04	1.04
2.						
3.						
4.						
5.						

Absolute Open Flow 956.8 Mcfd @ 15.025				Angle of Slope θ 45°		Slope, n 1.000	
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Remarks: Unable to run conventional 4-point test. Well produces 20-40 bbls formation water per day by heads so that short term stabilization is not possible			
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Approved By Commission:	Conducted By: <i>J. L. Balt</i>	Calculated By: <i>J. L. Balt</i>	Checked By:
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