

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

Form C-122
Revised 9-1-65

MAR 13 1972

Type Test ☒ Initial ☐ Annual ☒ Special		Test Date 3-8-72		O. C. C. ARTESIA, OFFICE	
Company Texas Oil & Gas Corp.		Connection Transwestern Pipeline Co.			
Pool South Carlsbad		Formation Morrow		Unit J	
Completion Date 10-1-70		Total Depth 12,143		Plug Back TD 12,098	
Elevation 3307 KDB		Farm or Lease Name Pan Am - State Com.			
Csg. Size 5 1/2	Wt. 20#	d 4.778	Set At 12,143	Perforations: From 11,615 To 11,781	
Tbg. Size 2 3/8	Wt. 4.7#	d 1.995	Set At 11,553	Perforations: From To	
Type Well - Single - Bradenhead - G.G. or G.O. Multiple Single				Packer Set At 11,533	
Producing Thru Tubing		Reservoir Temp. °F 180 @ 12,143		Mean Annual Temp. °F 13.2	
Baro. Press. - P _a 11.533		State New Mexico			
L 11.533	H 11.533	G _g .60	% CO ₂ 1.08	% N ₂ 0.29	% H ₂ S -
Prover X		Meter Run Flange		Taps X	

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							2450				
1.	2.067		.625	860	35	78	860	78	Packer		24 hr.
2.											
3.											
4.											
5.											

RATE OF FLOW CALCULATIONS							
NO.	Coefficient (24 Hour)	$\sqrt{h_w P_m}$	Pressure P _m	Flow Temp. Factor F _t	Gravity Factor F _g	Super Compress. Factor, F _{pv}	Rate of Flow Q, Mcfd
1	1.866	173.49	860	.9831	1.291	1.067	438
2.							
3.							
4.							
5.							

NO.	P _r	Temp. °R	T _r	Z	Gas Liquid Hydrocarbon Ratio <u>Dry</u> Mcf/bbl.
1	1.282	538	1.50	.878	A.P.I. Gravity of Liquid Hydrocarbons <u>None</u> Deg.
2.					Specific Gravity Separator Gas <u>0.60</u> X X X X X X X X
3.					Specific Gravity Flowing Fluid <u>X X X X X</u> <u>0.60</u>
4.					Critical Pressure <u>671</u> P.S.I.A. <u>671</u> P.S.I.A.
5.					Critical Temperature <u>358</u> R <u>358</u> R

P _c <u>2450</u>	P _c ² <u>6002.5</u>	(1) $\frac{P_c^2}{P_c^2 - P_w^2} = 1.146$	(2) $\left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 1.146$
NO.	P _t ²	P _w	P _w ²
1		876	767.7
2			
3			
4			
5			

Absolute Open Flow <u>502</u> Mcfd @ 15.025		Angle of Slope <u>45°</u>	Slope, n <u>1.000</u>
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Remarks: Unable to run conventional 4-point test. Well produces 20-40 Bbl Fm. water per day by heads so that short term stabilization is not possible.

Approved By Commission:	Conducted By:	Calculated By:	Checked By:
		<i>[Signature]</i>	<i>[Signature]</i>