

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

Form C-122
 Revised 9-1-65

Type Test ☒ Initial ☐ Annual ☐ Special					Test Date 10-9-76	
Company Aztec Oil & Gas Company				Connection Southern Union Gathering		
Pool Blanco				Formation Mesa Verde		Unit
Completion Date 9-19-76		Total Depth 5218'		Plug Back TD 5140'		Elevation 5888' GR
Csg. Size 7.000 4.500	Wt. 23# 10.50#	d	Set At 2881 2719-5217	Perforations: From 4810 To 5119		Well No. 2A
Tbg. Size 2.0625	Wt. 3.40#	d	Set At 5109	Perforations: From 4180 To 4740		Unit Sec. Twp. Rge. C 19 - 31N - 10W
Type Well - Single - Bradenhead - G.G. or G.O. Multiple Single				Packer Set At		County San Juan
Producing Thru tubing		Reservoir Temp. °F @		Mean Annual Temp. °F		Baro. Press. - P _a 12.2
L H		G _g .680	% CO ₂	% N ₂	% H ₂ S	Prover Meter Run Taps

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	X	3/4				759		796		
2.							251		761		
3.							241		753		
4.							238		745		3 Hrs.
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	12.365		250.2	1.0000	1.213	1.0000	3753
2.							
3.							
4.							
5.							

NO.	P _t	Temp. °R	T _r	Z	Gas Liquid Hydrocarbon Ratio	A.P.I. Gravity of Liquid Hydrocarbons	Specific Gravity Separator Gas	Specific Gravity Flowing Fluid	Critical Pressure	Critical Temperature
1.										
2.										
3.										
4.										
5.										

P _c 808.2 P _c ² 653,187	(1) $\frac{P_c^2}{P_c^2 - P_w^2} = 8.1799$	(2) $\left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 4.8368$				
NO. P _t ² P _w P _w ² P _c ² - P _w ²						
1		757.2	573,352	79835		
2						
3						
4						
5						

Absolute Open Flow 18,153 Mcfd @ 15.025		Angle of Slope θ	Slope, n .75
Remarks:			
Approved By Commission:	Conducted By: <i>R.T. Stundobake</i>	Calculated By: <i>James Smith</i>	Checked By: <i>John Ryan</i>