

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 6-10-77			
Company Aztec Oil & Gas Company				Connection Southern Union Gathering					
Pool Blanco				Formation Mesa Verde				Unit	
Completion Date 5-26-77		Total Depth 5132'		Plug Back TD 5114'		Elevation 6113' GR		Farm or Lease Name Culpepper Martin	
Csg. Size 7" 000 4.500	Wt. 20# 9 5#	d 6.456 4.090	Set At 2802 2659-5130	Perforations: From 4740 To 5072		Well No. #5-A			
Tbg. Size 2.375	Wt. 4.7#	d 1.995	Set At 5048	Perforations: From To		Unit Sec. Twp. Rgs. F 22-32N-12W			
Type Well - Single - Bradenhead - G.G. or G.O. Multiple Single						Packer Set At		County San Juan	
Producing Thru Tbg		Reservoir Temp. °F @		Mean Annual Temp. °F		Baro. Press. - P _a 12.2		State New Mexico	
L	H	Gg .700	% 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.	
SI							779		923	
1.	2"	X	3/4"				425		866	1 hr
2.							416		839	2 hrs
3.							404		821	3 hrs
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	12.365		416.2	1.0000	.9258	1.0000	4764
2.							
3.							
4.							
5.							

NO.	P _t	Temp. °R	T _t	Z	Gas Liquid Hydrocarbon Ratio _____ Mcf/bbl.
1.					A.P.I. Gravity of Liquid Hydrocarbons _____ Deg.
2.					Specific Gravity Separator Gas _____ X X X X X X X X
3.					Specific Gravity Flowing Fluid _____ X X X X X
4.					Critical Pressure _____ P.S.I.A. _____ P.S.I.A.
5.					Critical Temperature _____ R _____ R

NO.	P _t ²	P _w	P _w ²	P _c ² - P _w ²	(1) $\frac{P_c^2}{P_c^2 - P_w^2} = 4.8487$	(2) $\left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 3.2675$
1		833.2	694,222	180,377		
2						
3						
4						
5						

AOF = Q $\left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 15,567$

Absolute Open Flow <u>15,567</u> Mcfd @ 15.025		Angle of Slope θ _____		Slope, n <u>.75</u>	
Remarks: _____					
Approved By Commission:		Conducted By: Cliff Pistole		Calculated By: James Smith	
				Checked By:	