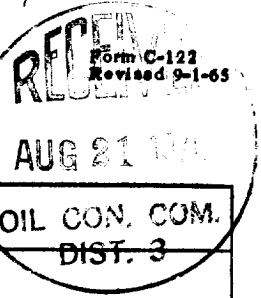


NEW MEXICO OIL CONSERVATION COMMISSION
MULTIPOINT AND ONE POINT BACK PRESSURE TEST FOR GAS WELL



Type Test ☒ Initial ☐ Annual ☐ Special				Test Date 8-15-70		OIL CON. COM. DIST. 3	
Company Aztec Oil & Gas Company				Connection Southern Union Gathering			
Pool Blanco				Formation Mesaverde		Unit	
Completion Date 8-8-70		Total Depth 5450'		Plug Back TD 5380'		Elevation 6206 Gr	
Casing Size 3 1/2"		Well 7.70#		Set At 5480'		Perforations From 5140 To 5248	
Tub. Size 1 1/2"		Well 2.90#		Set At 5100'		Perforations From ---- To ----	
Type Well - Single - Bradenhead - G.G. or G.O. Multiple Dual				Packer Set At ----		County San Juan	
Producing Thru Tubing		Reservoir Temp. °F @		Mean Annual Temp. °F		Baro. Press. - P _a New Mexico	
L		H		G _g		% 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	
SI	2		3/4				670				
1.							171				
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	12.365		171	1.0000	.9258	1.0000	1957
2.							
3.							
4.							
5.							

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

P _c 682 P _c ² 465,124				
NO.	P _t ²	P _w	P _w ²	P _c ² - P _w ²
1		521	271,441	193,683
2				
3				
4				
5				

$$(1) \frac{P_c^2}{P_c^2 - P_w^2} = \frac{2.4014}{1.9290}$$

$$(2) \left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 1.9290$$

$$AOF = Q \left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 3775$$

Absolute Open Flow <u>3775</u> Mcfd @ 15.025		Angle of Slope ϕ _____	Slope, n _____
Remarks: _____			
Approved By Commission:		Conducted By: _____	Checked By: _____