

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 11-15-76	
Company Aztec Oil & Gas Company				Connection Southern Union Gas		
Pool Blanco				Formation Mesa Verde		Unit
Completion Date 10-8-76		Total Depth 5774'		Plug Back TD 5750'		Elevation 6520' GR
Csg. Size 7.000" WT. 23#		Set At 3415'		Perforations: From 4846 To 5436		Farm or Lease Name Arizona Jicarilla
Thq. Size 1.500" WT. 2.90#		Set At 5430'		Perforations: From To		Well No. B #4A
Type Well - Single - Bradenhead - G.G. or G.O. Multiple Single					Packer Set At	
Producing Thru Tubing		Reservoir Temp. °F @		Mean Annual Temp. °F		County Rio Arriba
L		H		Baro. Press. - P _a 12.2		State New Mexico
G _g .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							720		822	
1.	2	X	3/4				122		560	
2.							94		503	
3.							71		463	
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	12.365		83.2	1.0000	.9258	1.0000	952
2.							
3.							
4.							
5.							

NO.	P _r	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 _____ 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

$P_c = 834.2$ $P_c^2 = 695,890$				
NO.	P _t ²	P _w	P _w ²	P _c ² - P _w ²
1		475.2	225,815	470,075
2				
3				
4				
5				

$$(1) \frac{P_c^2}{P_c^2 - P_w^2} = 1.480$$

$$(2) \left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 1.342$$

$$AOF = Q \left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 1,278$$

Absolute Open Flow	1,278	Mcf/d @ 15.025	Angle of Slope θ	Slope, n .75
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Remarks:

Approved By Commission:	Conducted By: <i>Mark McAdams</i>	Calculated By: <i>James Smith</i>	Checked By: <i>Don Ryan</i>
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