

~~CONFIDENTIAL TEST~~
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 9-13-76	
Company Aztec Oil & Gas Company			Connection Southern Union Gathering		
Pool Blanco			Formation Mesa Verde		Unit
Completion Date 9-3-76		Total Depth 5063'	Plug Back TD 5022'	Elevation 5777'	Farm or Lease Name Randleman
Csg. Size 4.000	Wt. 23#	Set At 2788'	Perforations: From 4096' To 4563'		Well No. #1-A
Csg. Size 4.500	Wt. 10.50#	Set At 2672-5063	Perforations: From 4096' To 4563'		Unit Sec. Twp. Rge. E 13 31N 11W
Thg. Size 2.0625	Wt. 3.40#	Set At 4983'	Perforations: From 4744' To 5006'		County San Juan
Type Well - Single - Bradenhead - G.G. or G.O. Multiple Single				Packer Set At -----	State New Mexico
Producing Thru Tubing		Reservoir Temp. °F @	Mean Annual Temp. °F	Baro. Press. - P _a	Meter Run
L	H	G _g	% CO ₂	% N ₂	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											
1.	2"		3/4"				603		768		
2.							177		736		
3.							184		725		
4.							182		723		3 Hours
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		194.2	1.0000	.9258	1.0000	2223
2.							
3.							
4.							
5.							

NO.	P _t	Temp. °F	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 780.2	P _c ² 608,712	(1) $\frac{P_c^2}{P_c^2 - P_w^2} = 8.9263$	(2) $\left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 5.1642$
NO.	P _t ²	P _w	P _w ²
1		735.2	540,519
2			
3			
4			
5			

AOF = Q $\left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 11,480$

Absolute Open Flow	11,480	Mcf/d @ 15.025	Angle of Slope θ	Slope, n .75
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Remarks: _____

Approved By Commission:	Conducted By: <i>Bob Hindlecker</i>	Calculated By: <i>James Smith</i>	Checked By: <i>Sam Ryan</i>
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