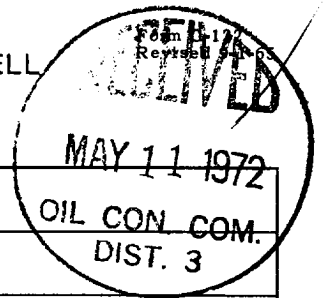


**NEW MEXICO OIL CONSERVATION COMMISSION
MULTIPOINT AND ONE POINT BACK PRESSURE TEST FOR GAS WELL**



Type Test ☒ Initial ☐ Annual ☐ Special					Test Date 5-4-72					
Company Aztec Oil & Gas Company				Connection Southern Union Gathering						
Pool Blanco				Formation Mesaverde				Unit		
Completion Date 4-24-72			Total Depth 5650		Plug Back TD 5551		Elevation 6463 GR		Farm or Lease Name Vasaly Federal	
Ch. 8.25	Wt. 26.40	d 6.969	Set At 5254	Perforations: From 5380 To 5412				Well No. #1-Y		
4.500	10.50	d 4.052	Set At 5156-5617	Perforations: From ---- To ----				Unit Sec. Twp. Rge. C 31 32N 11W		
Tbg. Size 1.500	Wt. 2.90	d 1.610	Set At 5399							
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		State New Mexico		
L	H	Gg	% 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							737		738		
1.	2"		3/4				191		682		3 hr
2.											
3.											
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		203	1.0000	.9258	1.0000	2324
2.							
3.							
4.							
5.							

NO.	P _t	Temp. °R	T _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 749	P _c ² 561,001		
NO.	P _t ²	P _w	P _w ²
1		694	481,636
2			
3			
4			
5			

(1) $\frac{P_c^2}{P_c^2 - P_w^2} = 7.0686$ (2) $\left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 4.3351$

AOF = Q $\left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 10,075$

Absolute Open Flow	10,075	Mcf/d @ 15.025	Angle of Slope @ .75	Slope, n .75
Remarks:				
Approved By Commission:	Conducted By:	Calculated By:	Checked By:	