

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 6-28-77	
Company Aztec Oil & Gas Company				Connection Southern Union Gathering			
Pool Blanco				Formation Mesaverde		Unit	
Completion Date 6-19-77		Total Depth 5524'		Plug Back TD 5500'		Elevation 6330' GR	
Farm or Lease Name Horton		Well No. #1-A		Perforations: From 4601' To 5135'			
Type Well - Single - Bradenhead - G.G. or G.O. Multiple Single		Packer Set At -----		County San Juan		State New Mexico	
Producing Thru Tbg		Reservoir Temp. °F 9		Mean Annual Temp. °F 12.2		Baro. Press. - P _a	
L	H	Gg	% CO ₂	% N ₂	% H ₂ S	Prover	Meter Run Taps
.700							

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
1.	2"	X	3/4"				678		746		
2.							240		709		1 hr
3.							238		698		2 hrs
4.							244		692		3 hrs
5.											

RATE OF FLOW CALCULATIONS							
NO.	Coefficient (24 Hour)	$\sqrt{h_w P_m}$	Pressure P _m	Flow Temp. Factor Ft.	Gravity Factor Fg	Super Compress. Factor, F _{pv}	Rate of Flow Q, Mcfd
1	12.365		256.2	1.0000	.9258	1.0000	2,933
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 758.2 P _c ² 574,867			
NO.	P _t ²	P _w	P _w ²
1	704.2	495,898	78,969
2.			
3.			
4.			
5.			

(1) $\frac{P_c^2}{P_c^2 - P_w^2} = 7.2797$ (2) $\frac{P_c^2}{P_c^2 - P_w^2} = 4.4318$

AOF = Q $\left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 12,999$

Absolute Oper. Flow 12,999 Mcfd @ 15.025		Angle of Slope 75	
Remarks:			

Approved By Commission:	Conducted By: Bob Shindledecker	Calculated By: James Smith	Checked By:
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