

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 5-12-77			
Company Aztec Oil & Gas Company				Connection Southern Union Gathering					
Pool Blanco				Formation Mesa Verde				Unit	
Completion Date 4-5-77		Total Depth 5051'		Plug Back TD 4909'		Elevation 5933' GR		Farm or Lease Name Culpepper Martin	
Csg. Size 7.000 4.500	Wt. 20# 11.60#	d 6.456 4.000	Set At 2604 2383-4957	Perforations: From 4526' To 4882'		Well No. #14-A			
Tbg. Size 2.375	Wt. 4.7#	d 1.995	Set At 4879	Perforations: From To		Unit Sec. Twp. Rge. P 32 32N 12W			
Type Well - Single - Bradenhead - G.G. or G.O. Multiple Single						Packer Set At ----		County San Juan	
Producing Thru Tbg.		Reservoir Temp. °F @		Mean Annual Temp. °F		Baro. Press. - P _a 12.2		State New Mexico	
L	H	Gg .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.	Temp. °F	
1.	2"	X	3/4"				824		824		1 hr
2.							280		602		2 hrs
3.							242		547		3 hrs
4.							227		522		
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, Fpv	Rate of Flow Q, Mcfd
1	12.365		239.2	1.0000	.9258	1.0000	2738
2.							
3.							
4.							
5.							

NO.	P _t	Temp. °R	T _t	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 836.2	P _c ² 699,230	(1) $\frac{P_c^2}{P_c^2 - P_w^2} = 1.6895$	(2) $\left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 1.4819$	
NO.	P _t ²	P _w	P _w ²	P _c ² - P _w ²
1		534.2	285,370	413,860
2				
3				
4				
5				

Absolute Open Flow 4,057 Mcfd @ 15.025		Angle of Slope @ _____	Slope, n .75
Remarks: _____			
Approved By Commission:	Conducted By: Cliff Pistole	Calculated By: James Smith	Checked By: