

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 6-27-77			
Company Aztec Oil & Gas Company				Connection Southern Union Gathering					
Pool Blanco				Formation Mesaverde				Unit	
Completion Date 6-20-77		Total Depth 5170'		Plug Back TD 5019'		Elevation 5840'		Farm or Lease Name Calloway	
Csg. Size 7.000	Wt. 20#	d 6.456	Set At 2828'	Perforations: 29m 4699' To 5007'			Well No. #1-A		
4.500	11.60#	4.000	2655'						
Tbg. Size 2.375	Wt. 4.7#	d 1.995	Set At 5002'	Perforations: From To			Unit Sec. Twp. Rge. C 22-T31N-R11W		
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		Bcro. Press. - P _d 12.2		State New Mexico	
L	H	G _q	% 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.	
SI							948		918	
1.	2"	X	3/4"				374		818	1 hr
2.							363		788	2 hrs
3.							363		765	3 hrs
4.										
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		375.2	1.0000	.9258	1.0000	4,295
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 960.2	P _c ² 921,984	(1) $\frac{P_c^2}{P_c^2 - P_w^2} = 2.8998$	(2) $\left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 2.2222$
NO	P _t ²	P _w ²	P _c ² - P _w ²
1	777.2	604,040	317,944
2			
3			
4			
5			

Absolute Open Flow 9,544		Mcf/d @ 15.025	Angle of Slope @	Slope, n .75
Remarks:				

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