

Form C-122
Revised 7-1-78

Type Test		☒ Initial		☐ Annual		Date		11-12-77			
Company				Well Name							
Aztec Oil & Gas Company				Southern Union Gathering							
Pool				Formation				Unit			
Aztec				Pictured Cliffs							
Completion Date		Total Depth		Well Bore TD		Elevation		Farm or Lease Name			
10-27-77		2237'		2197'		5702' GR		Cain			
Csg. Size	Wt.	d	Set At	Perforations		Well No.					
2.875	6.4#	2.441	2237'	From 2076' To 2106'		#21					
Teg. Size	Wt.	d	Set At	Perforations		Unit		Sec. Twp. Rge.			
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Type: SI - Single - Bradenhead - G.G. or G.O. Multiple						County					
Single						San Juan					
Producing Thru Csg.		Reservoir Temp. °F		Mean Annual Temp. °F		Baro. P. (psi) - P _a		State			
		2				12.2		New Mexico			
L	H	G _g	% 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	Duration of Flow
SI							576				
1.	2" X 3/4"						118				1 hr
2.							89				2 hrs
3.							74				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, Mscf/d				
1	12.365		86.2	1.0000	.9258	1.0000	987				
2											
3											
4											
5											
NO.	P _r	Temp. °R	T _r	Z	Gas Liquid Hydrocarbon Ratio _____ Mol/Lb.						
1					A.P.I. Gravity of Liquid Hydrocarbons _____ Deg.						
2					Specific Gravity Separator Gas _____ X X 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 _____ F _____ F						
P _c 588.2 P _c ² 345,979											
NO.	P _r ²	P _w	P _w ²	P _c ² - P _w ²	(1) $\frac{P_c^2}{P_c^2 - P_w^2} = 1.0219$ (2) $\left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 1.0186$						
1		86.2	7,430	338,549							
2											
3					ADP = $\left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 1.005$						
4											
5											
Absolute Open Flow 1,005											
Slope, n .85											
Remarks:											
Approved By Commission:				Conducted By:				Checked By:			
Dwayne Horton				James Smith							