

MULTIPOINT AND ONE POINT BACK PRESSURE TEST FOR GAS WELL

Type Test ☒ Initial ☐ Annual ☐ Special						Test Date 08-02-82			
Company Robert L. Bayless				Connection Gas Company of New Mexico					
Pool Ballard Pic. Cliffs				Formation Pictured Cliffs				Unit	
Completion Date 07-17-82		Total Depth 2260		Plug Back TD 2194		Elevation 6733		Farm or Lease Name AXI Agave Inc. A	
Csq. Size 2.875	Wt. 6.5	d 2.441	Set At 2234	Perforations: From 2121 To 2148		Well No. 11			
Thg. Size 1.660	Wt. 2.4	d 1.380	Set At 2141	Perforations: From To		Unit K	Sec. 15	Twp. 23N	Rge. 5W
Type Well - Single - Brdenhead - G.G. or G.O. Multiple Single						Packer Set At none		County Rio Arriba	
Producing Thru tubing		Reservoir Temp. °F #		Mean Annual Temp. °F		Baro. Press. - P _a 12 psia (est)		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. hw	Temp. °F	Press. p.s.i.g.	Temp. °F	Press. p.s.i.g.	
SI	16 days						599		604	
1.	2 inch	.750					28	60°	109	
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	12.3650		40	1.000	.9608	1.007	479
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 _____
3.					Specific Gravity Flowing Fluid _____
4.					Critical Pressure _____ P.S.I.A.
5.					Critical Temperature _____ R

P _c 616	P _c ² 379,456	
NO.	P _t ²	P _w ²
1	121	14,641
2		
3		
4		
5		

(1) $\frac{P_c^2}{P_c^2 - P_w^2} = 1.04013$

AOF = Q $\left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 495$

(2) $\left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 1.03401$

Absolute Open Flow	495	Mcfd @ 15.025	Angle of Slope @	Slope, n 0.85
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Remarks:

Approved By Division	Conducted By: John E. Larkin	Calculated By: Kevin H. McCord	Checked By: Robert L. Bayless
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