

**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 5-3-73			
Company Aztec Oil & Gas Company				Connection Southern Union Gathering					
Pool Aztec				Formation Pictured Cliff				Unit	
Completion Date 4-22-73		Total Depth 7240'		Plug Back TD 7192'		Elevation 6028 GR		Farm or Lease Name East	
Req. Size 4 1/2"	Wt. 9.5	d	Set At 7240'	Perforations: From 2552' To 2584'		Well No. #11			
Thq. Size 2-3/8"	Wt. 4.7	d	Set At 6955'	Perforations: From ---- To ----		Unit Sec. Twp. R.1e. A 24 31N 12W			
Type Well - Single - Bradenhead - G.G. or G.O. Multiple Multiple				Packer Set At 6955'		County San Juan			
Producing Thru Casing		Reservoir Temp. °F a		Mean Annual Temp. °F		Baro. Press. - P _a		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. h _w	Temp. °F	Press. p.s.i.g.	Temp. °F	Press. p.s.i.g.		Temp. °F
51									639		72
1.	2"		3/4"						62		3 hours
2.											
3.											
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		74	1.000	.9258	1.000	847
2							
3							
4							
5							

NO.	P _r	Temp. °R	T _r	Z	Gas Liquid Hydrocarbon Ratio	Mcfd/bbl.
1					A.P.I. Gravity of Liquid Hydrocarbons	Deg.
2					Specific Gravity Separator Gas	XXXXXXXXXX
3					Specific Gravity Flowing Fluid	XXXXXX
4					Critical Pressure	P.S.I.A.
5					Critical Temperature	R

P _c 651	P _c ² 423,801		
NO.	P _r ²	P _w	P _w ²
1		82	6,724
2			
3			
4			
5			

(1) $\frac{P_c^2}{P_c^2 - P_w^2} = 1.0161$

AOF = Q $\left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 859$

(2) $\left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 1.0136$

Absolute Open Flow	859	Mcfd @ 15.025	Angle of Slope θ	Slope, n
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Remarks:

Approved By Commission:	Conducted By:	Calculated By:	Checked By:
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