

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 9-16-69	
Company Aztec Oil & Gas Company		Connection Southern Union Gathering	
Pool Blanco		Formation Mesaverde	
Completion Date 9-10-69		Total Depth 5246	Plug Back TD 5244
		Elevation 5988 Df	Farm or Lease Name Crandell
Well No. 3 1/2	WT. 7.7	Set At 5244	Perforations: From 4956- To 5052
Well No. 1 1/2	WT. 2.9	Set At 5025	Perforations: From Opened To
Type Well - Single - Broadhead - G.G. or G.O. Multiple Single		Packer Set At	Unit Sec. Twp. Rge. A 19 31 10
Producing Thru	Reservoir Temp. °F	Mean Annual Temp. °F	County San Juan
			State New Mexico
% 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.	
1.	2		3/4				712		712	
2.							148		513	
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.	12.365		160	1.000	.9258	1.000	1831
2.							
3.							
4.							
5.							

NO.	P_t	Temp. °R	T_f	Z	Gas Liquid Hydrocarbon Ratio	Dec.
1.					A.P.I. Gravity of Liquid Hydrocarbons	
2.					Specific Gravity Separator Gas	
3.					Specific Gravity Flowing Fluid	X X X X X
4.					Critical Pressure	P.S.I.A.
5.					Critical Temperature	R

P_c 724	P_w^2 524176	(1) $\frac{P_c^2}{P_c^2 - P_w^2} = 1.8251$	(2) $\left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 1.8352$
NO.	P_w	P_w^2	$P_c^2 - P_w^2$
1.	525	275625	248551
2.			
3.			
4.			
5.			

ACF = Q	$\left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 3.360$
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Absolute Open Flow	3360	Mcf/d @ 15.025	Angle of Slope θ	Slope, n
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Remarks:			
Approved by Commission:	Conducted By:	Calculated By:	Checked By: