

**NEW MEXICO OIL CONSERVATION COMMISSION
MULTI-POINT BACK PRESSURE TEST FOR GAS WELL**

Form C-122

Revised 12-1-55

Pool Basin Dakota				Formation Dakota				County San Juan			
Initial x		Annual		Special		Date of Test 6/6/66					
Company Aztec Oil and Gas Company				Lease Grenier				Well No. 16			
Unit P	Sec. 6	Twp. 31N	Range 11W		Purchaser Southern Union Gathering						
Casing 4 1/2	Wt. 10.5 & 11.0	I.D. 4.000	Set at 7828		Perf. 7600		To 7721				
Tubing 1 1/2	Wt. 2.75	I.D. 1.610	Set at 7725		Perf. 7700		To 7715				
Gas Pay: From 7600		To 7721		L 7700		G .700 (est)		GL		Bar. Press.	
Producing Through:		Casing		Tubing		Type Well - Single - Braden head - G.G. or G.O. Dual single gas					
Date of Completion 5/29/66		Packer none				Reservoir Temp.					

OBSERVED DATA										
Tested Through:		Prover ☐	Choke ☒	Meter ☐	Type of Taps					
FLOW DATA						TUBING DATA		CASING DATA		DURATION OF FLOW HR.
	(Prover) (Line) Size	(Choke) (Orifice) Size	Press. psig.	Diff. hw	Temp. °F.	Press. psig.	Temp. °F.	Press. psig.	Temp. °F.	
1.		7 days				2049		2049		
2.	8"	3/4"				235	60 (est)	1252	60 (est)	3 hr
3.										
4.										
5.										

FLOW CALCULATIONS							
	Coefficient (24 Hour)	$\sqrt{h_w p_f}$	Pressure psia	Flow Temp. Factor F_t	Gravity Factor F_g	Compress. Factor F_{pv}	Rate of Flow Q-MCF P.D. @ 15.025 psia
1.	12.365		247	1.000	.9258	1.051	2915
2.							
3.							
4.							
5.							

PRESSURE CALCULATIONS									
Gas Liquid Hydrocarbon Ratio _____ cf/bbl.					Specific Gravity Separator Gas _____				
Gravity of Liquid Hydrocarbons _____ deg.					Specific Gravity Flowing Fluid _____				
F_c _____ (1-e ^{-S}) _____					P_c 2061 P_c^2 4,247,721				
No.	$\frac{P_w}{P_t}$ psia	P_t^2	$F_c Q$	$(F_c Q)^2$	$(F_c Q)^2 (1-e^{-S})$	P_w^2	$P_c^2 - P_w^2$	$\frac{Cd}{P_w}$	$\frac{P_w}{P_c}$
1.	1264					1,597,696	2,650,025		
2.									
3.									
4.									
5.									

ABSOLUTE POTENTIAL: **4151** MCFPD; n **175**

COMPANY **Aztec Oil and Gas Company** WITNESSED _____

ADDRESS **Boxer 570, Farmington, New Mex** COMPANY _____
Original Signed By

AGENT AND TITLE **Carl E. Jameson**
District Engineer

