

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

Form C-22
Revised 12-1-55

Pool South Blanco Pictured Cliffs			Formation Pictured Cliffs			County San Juan		
Initial X		Annual		Special		Date of Test 7/23/66		
Company Aztec Oil and Gas			Lease Whitley			Well No. 8		
Unit M	Sec. 8	Twp. 27N	Range 9W		Purchaser Southern Union Gas			
Casing 4 1/2	Wt. 9.5	I.D. 4.090	Set at 2430		Perf. 2322		To 2368	
Tubing 1"	Wt. 1.7	I.D. 1.049	Set at 2346		Perf. 2326		To 2336	
Gas Pay: From 2322		To 2368		L .700 (est)		G .700 (est)		Bar. Press.
Producing Through: X			Casing			Tubing		
Date of Completion 7/16/66			Packer none			Reservoir Temp.		
OBSERVED DATA								
Tested Through:			Prover ☐			Choke ☒		
			Meter ☐			Type of Taps		

FLOW DATA						TUBING DATA		CASING DATA		DURATION OF FLOW HR.
No.	(Prover) (1 in) Size	(Choke) (Orifice) Size	Press. psig.	Diff. h _w	Temp. °F.	Press. psig.	Temp. °F.	Press. psig.	Temp. °F.	
1.	2"	3/4"	7 days			470		470		
2.						236	60 (est)	219	60 (est)	3 hr
3.										
4.										
5.										

FLOW CALCULATIONS							
No.	Coefficient (24 Hour)	$\sqrt{\frac{q}{w} P_f}$	Pressure psia	Flow Temp. Factor F _t	Gravity Factor F _g	Compress. Factor F _{pv}	Rate of Flow Q-MCF PD @ 15.025 psia
1.	12.365		231	1.000	.9258	1.028	2718
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 **482** P_c² **232,324**

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	Cal P _w	$\frac{P_w}{P_c}$
1.	248					61,504	170,820		
2.									
3.									
4.									
5.									

ABSOLUTE POTENTIAL: **3528** MCFPD; n **.85**

COMPANY **Aztec Oil and Gas** WITNESSED _____

ADDRESS **Drawer 570 Farmington, New Mexico** COMPANY _____

AGENT AND TITLE **Original Signed By**
Carl E. Jamason
District Engineer

