

NEW MEXICO OIL CONSERVATION COMMISSION

Form C-122

MULTI-POINT BACK PRESSURE TEST FOR GAS WELLS

Revised 12-1-55

Pool Aztec Formation Pickens Cliffs County San Juan
 Initial ✓ Annual Special Date of Test 8/6/61
 Company Aztec Oil & Gas Co. Lease Reid Well No. 12P
 Unit I Sec. 19 Twp. 28N Rge. 9W Purchaser
 Casing 4 1/2" Wt. 9.50 I.D. 4.090 Set at 2121 Perf. 2056 To 2110
 Tubing 2 3/4" Wt. 4.70 I.D. 1.995 Set at 2012 Perf. Pin Collar To
 Gas Pay: From 2056 To 2110 L 2012 xG 0.700 GL 1408 Bar. Press. 12
 Producing Thru: Casing Tubing ✓ Type Well Single
 Date of Completion: 8/1/61 Packer Single-Bradenhead-G. G. or G.O. Dual
 Reservoir Temp.

OBSERVED DATA

Tested Through (Pin Collar) (Choke) (Pin Collar)

Type Taps

No.	Flow Data					Tubing Data		Casing Data		Duration of Flow Hr.
	(Prover) (Line) Size	(Choke) (Orifice) Size	Press. psig	Diff. h _w	Temp. °F.	Press. psig	Temp. °F.	Press. psig	Temp. °F.	
SI						534		534		7 Days
1.		0.750				152		233		3 Hrs.
2.										
3.										
4.										
5.										

FLOW CALCULATIONS

No.	Coefficient (24-Hour)	$\sqrt{h_w P_t}$	Pressure psia	Flow Temp. Factor P_t	Gravity Factor F_g	Compress. Factor F_{pv}	Rate of Flow Q-MCFPD @ 15.025 psia
1.	12.365		164	1.000	0.9258	1.023	1921
2.							
3.							
4.							
5.							

PRESSURE CALCULATIONS

Gas Liquid Hydrocarbon Ratio cf/bbl.
 Gravity of Liquid Hydrocarbons deg.
 P_c (1-e⁻⁸)

Specific Gravity Separator Gas
 Specific Gravity Flowing Fluid
 P_c 346 P_c 298.116

No.	P_w P_t (psia)	P_t^2	$P_c Q$	$(P_c Q)^2$	$(P_c Q)^2 (1-e^{-8})$	P_w^2	$P_c^2 - P_w^2$	Cal. P_w	$\frac{P_w}{P_c}$
1.	265					70.225	227.891		
2.									
3.									
4.									
5.									

Absolute Potential: 2.413 MCFPD; n 0.83

COMPANY Aztec Oil & Gas Co.

ADDRESS Drum 510, Farmington, N.M.

AGENT and TITLE W. M. Skene, Jr., Engineer

WITNESSED

COMPANY

REMARKS