

NEW MEXICO OIL CONSERVATION COMMISSION

Form C-1

MULTI-POINT BACK PRESSURE TEST FOR GAS WELLS

Revised 12-1-61

Pool Basin Formation Dakota County San Juan
 Initial ✓ Annual Special Date of Test 6/2/61
 Company Aztec Oil & Gas Co. Lease Aztec Well No. 8
 Unit D Sec. 14 Twp. 28N Rge. 11W Purchaser SU Gas
 Casing 4 1/2 Wt. 9.5 I.D. 4.092 Set at 6258 Perf. 6052 To 6152
 Tubing 2 3/8 Wt. 4.7 I.D. 1.995 Set at 6040 Perf. Per Pollack To
 Gas Pay: From 6052 To 6152 L 6040 xG 0.65 -GL 3926 Bar. Press. 12
 Producing Thru: Casing Tubing Type Well Single
 Date of Completion: 5/26/61 Packer Single-Bradenhead-G. G. for G.O. Dual
 Reservoir Temp.

OBSERVED DATA

Tested Through (Prover) (Choke) (Meter)

Type Taps

No.	Flow Data					Tubing Data		Casing Data		Duration of Flow Hr.
	(Prover) (Line) Size	(Choke) (<u>Orifice</u>) Size	Press. psig	Diff. h_w	Temp. °F.	Press. psig	Temp. °F.	Press. psig	Temp. °F.	
SI										
1.		<u>0.750</u>				<u>2069</u>		<u>2069</u>		<u>3.5</u>
2.						<u>471</u>	<u>60(E)</u>	<u>1155</u>		<u>3.5</u>
3.										
4.										
5.										

FLOW CALCULATIONS

No.	Coefficient (24-Hour)	$\sqrt{h_{wpf}}$	Pressure psia	Flow Temp. Factor F_t	Gravity Factor F_g	Compress. Factor F_{pv}	Rate of Flow Q-MCFPD @ 15.025 psia
1.	<u>12.365</u>		<u>483</u>	<u>1.000</u>	<u>0.9108</u>	<u>1.055</u>	<u>6054</u>
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 2061 P_c 4330.561

No.	P_w P_t (psia)	P_t^2	$F_c Q$	$(F_c Q)^2$	$(F_c Q)^2$ (1-e ⁻⁸)	P_w^2	$P_c^2 - P_w^2$	Cal. P_w	P_w P_c
1.	<u>1167</u>								
2.						<u>1.341889</u>	<u>2061.67</u>		
3.									
4.									
5.									

Absolute Potential: 8037 MCFPD; n 0.75

COMPANY Aztec Oil & Gas Co.
 ADDRESS DRAWER 532, Farmington, N.M.
 AGENT and TITLE L.M. Stevens, Engineer
 WITNESSED
 COMPANY

REMARKS