

NEW MEXICO OIL CONSERVATION COMMISSION

Form C-1.22

Revised 12-1-55

MULTI-POINT BACK PRESSURE TEST FOR GAS WELLS

Pool Basin Formation Dakota County San Juan
 Initial ✓ Annual ✓ Special ✓ Date of Test 8/1/51
 Company Aztec Oil & Gas Co. Lease A.D. Hudson Well No. 40
 Unit J Sec. 29 Twp. 27N Rge. 9W Purchaser ✓
 Casing 4 1/2 in. I.D. 4.090 Set at 6890 Perf. 6614 To 6802
 Tubing 2 3/8 in. I.D. 1.995 Set at 6566 Perf. Pin Collar To ✓
 Gas Pay: From 6614 To 6802 L 6566 XG 0.70 GL Bar. Press. 12
 Producing Thru: Casing ✓ Tubing ✓ Type Well Single
 Single-Bradenhead-G. G. or G.O. Dual
 Date of Completion: 8/1/51 Packer ✓ Reservoir Temp. ✓

OBSERVED DATA

Tested Through (Prover) (Choke) (Orifice) 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.	
1.		0.150				1875	80	1925		7 Days
2.						199		547		3 hrs
3.										
4.										
5.										

FLOW CALCULATIONS

No.	Coefficient (24-Hour)	$\sqrt{h_{wp}}$	Pressure psia	Flow Temp. Factor F _t	Gravity Factor F _g	Compress. Factor F _{pv}	Rate of Flow Q-MCFPD @ 15.025 psia
1.	12.315		2.10	0.9813	0.9258	1.000	2406
2.							
3.							
4.							
5.							

PRESSURE CALCULATIONS

Gas Liquid Hydrocarbon Ratio ✓ cf/bbl.
 Gravity of Liquid Hydrocarbons ✓ deg.
 F_c (1-e⁻⁸)
 Specific Gravity Separator Gas ✓
 Specific Gravity Flowing Fluid ✓
 P_c 1937 P_c 3.751969

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	P _w /P _c
1.						312.481	3.43947		
2.									
3.									
4.									
5.									

Absolute Potential: 2568 MCFPD; n 0.75
 COMPANY Aztec Oil & Gas Co.
 ADDRESS Drum 510, Farmington, N.M.
 AGENT and TITLE ORIGINAL SIGNED BY L. M. STEVENS
 WITNESSED L. M. Stevens, Engineer
 COMPANY ✓

REMARKS

