

MULTI-POINT BACK PRESSURE TEST FOR GAS WELLS

Pool Basin Dakota Formation Dakota County San Juan
 Initial X Annual _____ Special _____ Date of Test 5-9-62
 Company Aztec Oil & Gas Co. Lessee Harper Well No. 2
 Unit P Sec. 14 Twp. 31 N Rge. 12 W Purchaser _____
 Casing 4 1/2 Wt. 9.5 x 11.6 I.D. 4.000 Set at 7348 Perf. 7116 To 7226
 Tubing 2 3/8 Wt. 4.7 I.D. 1.995 Set at 7149 Perf. Pin Celler To _____
 Gas Pay: From 7116 To 7226 L 7149 xG 700 -GL _____ Bar. Press. 12
 Producing Thru: Casing _____ Tubing X Type Well Single - Gas
 Single-Bradenhead-G. C. or G.C. Dual _____
 Date of Completion: 5-2-62 Packer _____ Reservoir Temp. _____

OBSERVED DATA

Tested Through (Packer) (Choke) (Packer) Type Taps _____

No.	Flow Data					Tubing Data		Casing Data		Duration of Flow of P. H.
	(Packer) (Line) Size	(Choke) (Packer) Size	Press. psig	Diff. h _w	Temp. °F.	Press. psig	Temp. °F.	Press. psig	Temp. °F.	
SI	<u>7 days</u>	<u>3/4"</u>				<u>1997</u>		<u>2004</u>		<u>7 days</u>
1.	<u>2"</u>					<u>366</u>	<u>60 test</u>	<u>897</u>	<u>60 test</u>	<u>3 hrs</u>
2.										
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 @ 15.026 mm
1.	<u>12.265</u>		<u>378</u>	<u>1.000</u>	<u>0.258</u>	<u>1.047</u>	<u>4.530</u>
2.							
3.							
4.							
5.							

PRESSURE CALCULATIONS

Gas Liquid Hydrocarbon Ratio _____ cf/tbl.
 Gravity of Liquid Hydrocarbons _____ deg.
 T_c _____ (1-e⁻⁵)
 Specific Gravity Separator Gas _____
 Specific Gravity Flowing Fluid _____
 P_c 2016 P_c 4.064, 226

No.	P _w P _t (psia)	P _t ²	F _c Q	(F _c Q) ²	(F _c Q) ² (1-e ⁻⁵)	P _w ²	P _c ² -P _w ²	Cal. P _w	P _w P _c
1.	<u>969</u>					<u>826, 281</u>	<u>3237, 275</u>		
2.									
3.									
4.									
5.									

Absolute Potential: 5370 MCFPD: 75
 COMPANY Aztec Oil & Gas Company
 ADDRESS P.O. Drawer 500, Farmington, N.M.
 AGENT and TITLE B. H. Newman District Engineer
 WITNESSED _____
 COMPANY _____

REMARKS

