

**NEW MEXICO OIL CONSERVATION COMMISSION  
MULTIPOINT AND ONE POINT BACK PRESSURE TEST FOR GAS WELL**

Form C-122  
Revised 9-1-65

Type Test <input checked="" type="checkbox"/> Initial <input type="checkbox"/> Annual <input type="checkbox"/> Special			Test Date 3-5-76			
Company Horace McKay			Connection Waiting on pipeline			
Pool Aztec P. C.			Formation Pictured Cliffs			
Completion Date 2-13-76		Total Depth 1801 - 1810		Plug Back TD 1761 - 1772	Elevation 5454KB	
Farm or Lease Name McKay			Well No. 1			
Csg. Size 2.875	Wt. 6.50	d 2.441	Set At 1801	Perforations: From 1724 To 1744		
Tbg. Size NONE	Wt.	d	Set At	Perforations: From To		
Type Well - Single - Bradenhead - G.G. or G.O. Multiple Single			Packer Set At NONE		County San Juan	
Producing Thru Casing		Reservoir Temp. °F 83° 1801	Mean Annual Temp. °F -		Baro. Press. - P <sub>a</sub> 12.0	
L 1724	H 1724	C <sub>g</sub> 0.65	% CO <sub>2</sub> -	% N <sub>2</sub> -	% H <sub>2</sub> S -	
Prover -			Meter Run -	Taps -		
FLOW DATA			TUBING DATA		CASING DATA	
NO.	Prover Line Size	X	Orifice Size	Press. p.s.i.g.	Diff. hw	
NO.	Press. p.s.i.g.	Temp. °F	Press. p.s.i.g.	Temp. °F	Duration of Flow	
51					8 da.	
1.					3 hrs.	
2.						
3.						
4.						
5.						
RATE OF FLOW CALCULATIONS						
NO.	Coefficient (24 Hour)	$\sqrt{h_w P_m}$	Pressure P <sub>m</sub>	Flow Temp. Factor Ft.	Gravity Factor F <sub>g</sub>	Super Compress. Factor, F <sub>pv</sub>
1	12.365		103	1.0000	0.9608	1.0000
2.						
3.						
4.						
5.						
NO.	P <sub>t</sub>	Temp. °R	T <sub>f</sub>	Z	Gas Liquid Hydrocarbon Ratio _____ Mcf/bbl.	
1					A.P.I. Gravity of Liquid Hydrocarbons _____ Deg.	
2.					Specific Gravity Separator Gas _____ X X X X X X X X X	
3.					Specific Gravity Flowing Fluid _____ X X X X X	
4.					Critical Pressure _____ P.S.I.A. _____ P.S.I.A.	
5.					Critical Temperature _____ R _____ R	
NO.	P <sub>t</sub> <sup>2</sup>	P <sub>w</sub> <sup>2</sup>	P <sub>w</sub> <sup>2</sup>	P <sub>c</sub> <sup>2</sup> - P <sub>w</sub> <sup>2</sup>	(1) $\frac{P_c^2}{P_c^2 - P_w^2} = 1.0881$	
1	418	174.724	119	14.161	160.563	(2) $\left[ \frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 1.0744$
2.						
3.						
4.						
5.						
NO.	P <sub>t</sub> <sup>2</sup>	P <sub>w</sub> <sup>2</sup>	P <sub>w</sub> <sup>2</sup>	P <sub>c</sub> <sup>2</sup> - P <sub>w</sub> <sup>2</sup>	AOF = Q $\left[ \frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 1.315$	
1						
2.						
3.						
4.						
5.						
Absolute Open Flow			1.315 Mcfd @ 15.025		Angle of Slope @ _____ Slope, n _____	
Remarks: Calculated PW = 119						
Approved By Commission:		Conducted By:		Calculated By:		Checked By:
		Horace Williams		Dwight N. Welch		