

# MULTI-POINT 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 8/1/66	
Company Jake I. Hamon		Connection None	
Prop. Undes. (Osudo Morrow)		Formation Morrow	
Completion Date 7/30/66		Total Depth 11,470	Plug Back TD 11,459
		Elevation 3665 KB	
		Name of Lease Name Union State	
Log Size 5 1/2	Wt. 20 & 17	d 4778 4892	Set At 11,470
		Perforations: From 11,212 To 11,426	
Log Size 2 7/8	Wt. 6.50	d 2.441	Set At 11,178
		Perforations: From open ended To	
Type Well - Single - Bradenhead - G.G. or G.O. Multiple Single		Packer Set At 11,150	
		County Lea	
Producing Thru Tbg		Reservoir Temp. °F 149 @ 11,443	Mean Annual Temp. °F 60°
		Baro. Press. - P <sub>g</sub> 13.2	
		State New Mexico	
L 11178	H 11178	Gg .635	% CO <sub>2</sub>
			% N <sub>2</sub>
			% H <sub>2</sub> S
Prove:		Meter Run Y	Taps FLG

NO.	Prover Line Size	X	Orifice Size	Press. p.s.i.g.	Diff. h <sub>w</sub>	Temp. °F	TUBING DATA		CASING DATA		Duration of Flow
							Press. p.s.i.g.	Temp. °F	Press. p.s.i.g.	XXXXXX	
SI										Choke size	50 hr
1.	4 x 2.250			683	9.5	80	3294	84	Pkr	11/64	1 hr
2.	4 x 2.250			675	21.0	74	2957	84		14/64	1 hr
3.	4 x 2.250			840	38.0	66	2570	84		19/64	1 hr
4.	4 x 2.250			818	83.0	65	2126	84		28/64	1 hr
5.											

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>	Rate of Flow Q, Mcfd
2	25.64	120.2	688.2	.9868	1.255	1.062	4053
3	25.64	180.1	853.2	.9943	1.255	1.082	6235
4	25.64	262.7	831.2	.9952	1.255	1.080	9086
5							

NO.	P <sub>r</sub>	Temp. °R	T <sub>r</sub>	Z	Gas Liquid Hydrocarbon Ratio		Super Compress. Factor, F <sub>pv</sub>	Rate of Flow Q, Mcfd
						Mcf/bbl.		
1	1.04	540	1.47	0.891	68.34	50.5	1.059	2720
2	1.03	534	1.45	0.887	63.5	50.5	1.062	4053
3	1.27	526	1.43	0.854	63.5	50.5	1.082	6235
4	1.24	525	1.43	0.857	670	368	1.080	9086
5								

NO.	P <sub>c</sub> <sup>2</sup>	P <sub>w</sub>	P <sub>w</sub> <sup>2</sup>	P <sub>c</sub> <sup>2</sup> - P <sub>w</sub> <sup>2</sup>	AOF = Q	Equations	
						(1) $\frac{P_c^2}{P_c^2 - P_w^2} = 1.521$	(2) $\left[ \frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 1.521$
1	10937.6	3320.9	11028.4	4900.5			
2	8822.1	3003.5	9021.6	6907.3			
3	6672.9	2666.1	7108.1	8820.8			
4	4576.2	2335.9	5456.4	10472.5			
5							

Absolute Open Flow 13,820 Mcfd @ 15.025    Angle of Slope @ 45°    Slope, n 1.000

Remarks: Point alignment is in excess of 1.00, therefore a slope of 1.00 was drawn through the highest rate of flow.

Approved By Commission: \_\_\_\_\_    Conducted By: H. L. Smith    Calculated By: Monica Kallied    Checked By: \_\_\_\_\_