

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

Form C-122
Revised 9-1-65

RECEIVED

Type Test ☒ Initial ☐ Annual ☐ Special		Test Date 3-17-77		MAY 11 1977	
Company Tom L. Ingram			Connection None		O.C.C.
Pool White Ranch			Formation Mississippi Gas		ARTERIA. OFFICE
Completion Date August 25, 1975		Total Depth 8808'		Elevation 3782' GL	
Csg. Size 5 1/2"	Wt. 15.5	d 4.950	Set At 8807'	Perforations: From 8302' To 8344'	
Tq. Size 2 7/8"	Wt. 6.5	d 2.441	Set At 8286'	Perforations: Open Ended	
Type Well - Single - Bradenhead - G.G. or G.O. Multiple Single				Packer Set At None	
Producing Thru Tubing		Reservoir Temp. °F 165 @ 8200		Mean Annual Temp. °F 60°F	
Baro. Press. - P ₀ 13.2		State New Mexico		County Chaves	
L 8323'	H -	Gg 0.7059	% CO ₂ 0.483	% N ₂ 1.282	% H ₂ S 0.000
FLOW DATA				TUBING DATA	
NO.	Prover Line Size	X	Orifice Size	Press. p.s.i.g.	Diff. h _w
SI					
1.	4	5/64	1.250	300	4
2.	4	7/64	1.250	310	12
3.	4	10/64	1.250	315	34
4.	4	13/64	1.250	325	56
5.					
RATE OF FLOW CALCULATIONS					
NO.	Coefficient (24 Hour)	$\sqrt{h_w P_m}$	Pressure P _m	Flow Temp. Factor F _t	Gravity Factor F _g
1	7.469	35.39	313.2	0.9795	1.190
2	7.469	62.28	323.2	0.9786	1.190
3	7.469	105.63	328.2	0.9777	1.190
4	7.469	137.60	338.2	0.9777	1.190
5					
NO.	P _t	Temp. °R	T _r	Z	Gas Liquid Hydrocarbon Ratio
1.	0.47	542	1.41	0.942	15.446
2.	0.48	543	1.41	0.940	A.P.I. Gravity of Liquid Hydrocarbons 66.4
3.	0.49	544	1.41	0.939	Specific Gravity Separator Gas 0.7059
4.	0.51	544	1.41	0.937	Specific Gravity Flowing Fluid X X X X X
5					Critical Pressure 669
					Critical Temperature 385
	P _c 2737.2	P _c 7492.3			
NO.	P _c	P _w *	P _w ²	P _c ² - P _w ²	(1) $\frac{P_c^2}{P_c^2 - P_w^2} = 41.717$
1		2704.2	7312.7	179.6	(2) $\left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 6.520$
2		2635.2	6944.3	548.0	
3		2438.2	5944.8	1547.5	
4		2202.2	4849.7	2642.6	
5					
Absolute Open Flow 2069					
Mcf @ 15.035					
Angle of Slope 63°20'					
Slope, n 0.502					
Remarks: * BHP @ (-4541) 8323' Used for pressure calculations					
Approved by Commission:		Conducted By:		Calculated By:	
		Jarrel Services, Inc.		Joe A. Coleman	
				Checked By:	
				Joe A. Coleman	