

MULTIPOINT AND ONE POINT BACK PRESSURE TEST FOR GAS WELL

Type Test ☒ Initial ☐ Annual ☐ Special					Test Date 6/13/88																																	
Company Robert L. Bayless				Connection																																		
Pool Rusty Chacra				Formation Chacra																																		
Completion Date 6/6/88		Total Depth 1875		Plug Back TD 1825																																		
				Elevation 6941 GL																																		
Csg. Size 2 7/8		ID 6.5		Set At 1858																																		
Perforations: From 1598 To 1709		Well No. 27																																				
Trg. Size None		ID 6.5		Set At 1858																																		
Perforations: From To		Unit H		Sec. 3																																		
		Twp. 21N		Rge. 6W																																		
Type Well - Single - Bradenhead - G.C. or G.O. Multiple Single				Packer Set At None																																		
Producing Thru casing				State New Mexico																																		
Reservoir Temp. °F .		Mean Annual Temp. °F .		Baro. Press. - P _a 12.0 (est.)																																		
L		H		Prover																																		
G _g .65(est)		% CO ₂		% H ₂ S																																		
				Meter Run																																		
				Taps																																		
FLOW DATA TUBING DATA CASING DATA																																						
NO.	Prover Line Size	X	Orifice Size	Press. p.s.i.g.	Diff. h _w	Temp. °F	Press. p.s.i.g.	Temp. °F	Press. p.s.i.g.	Temp. °F	Duration of Flow																											
SI	7 days								392																													
1.	2" x .750								70	60	3 hrs.																											
2.																																						
3.																																						
4.																																						
5.																																						
RATE OF FLOW CALCULATIONS																																						
NO.	Coefficient (24 Hour)	$\sqrt{h_w P_m}$	Pressure P _m	Flow Temp. Factor Ft.	Gravity Factor F _g	Super Compress. Factor, F _{pv}	Rate of Flow O, Mcfd																															
1	12.365		82	1.000	1.240	1.014	1275																															
2.																																						
3.																																						
4.																																						
5.																																						
NO.	P _r	Temp. °R	T _r	Z	Gas Liquid Hydrocarbon Ratio			Mcft/bbl.																														
1	.12		1.39	.973	A.P.I. Gravity of Liquid Hydrocarbon			_____ Deg.																														
2.					Specific Gravity Separator Gas			XXXXXXXXXX																														
3.					Specific Gravity Flowing Fluid			_____																														
4.					Critical Pressure _____ P.S.I.A.			_____ P.S.I.A.																														
5.					Critical Temperature _____ R			_____ R																														
P_c 404 P_c² 163,216 <table border="1" style="width:100%; border-collapse: collapse;"> <tr> <th>NO.</th> <th>P_i²</th> <th>P_w</th> <th>P_w²</th> <th>P_c² - P_w²</th> </tr> <tr> <td>1</td> <td></td> <td>102</td> <td>10,381</td> <td>152,835</td> </tr> <tr> <td>2</td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>3</td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>4</td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>5</td> <td></td> <td></td> <td></td> <td></td> </tr> </table> (1) $\frac{P_c^2}{P_c^2 - P_w^2} = 1.0679$ (2) $\left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 1.0505$ AOF = O $\left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 1339$									NO.	P _i ²	P _w	P _w ²	P _c ² - P _w ²	1		102	10,381	152,835	2					3					4					5				
NO.	P _i ²	P _w	P _w ²	P _c ² - P _w ²																																		
1		102	10,381	152,835																																		
2																																						
3																																						
4																																						
5																																						
Absolute Open Flow 1339 Mcfd @ 15.025					Angle of Slope @ _____		Slope, n .75																															
Remarks: Gas had a slight mist throughout test.																																						
Approved By Division			Conducted By: Albert Aranda		Calculated By: Kevin H. McCord		Checked By:																															