

MULTIPOINT AND ONE POINT BACK PRESSURE TEST FOR GAS WELL

Type Test ☒ Initial ☐ Annual ☐ Special						Test Date 9-14-82																															
Company Curtis J. Little				Connection El Paso																																	
Pool Basin				Formation Dakota																																	
Completion Date 9-7-82		Total Depth 7494		Plug Back TD 7455		Elevation 6313 G.D.																															
Csg. Size 4.500"		Wt. 23 #		Sel. At 3194		Perforations: From 7256 To 7427																															
Tub. Size 2 3/8		Wt. 4.7		Sel. At 7269		Perforations: From open To ended																															
Type Well - Single - Bradenhead - G.C. or G.O. Multiple Single				Packer Set At None		County San Juan																															
Producing Thru Tubing		Reservoir Temp. °F B		Mean Annual Temp. °F		Baro. Press. - P _a 12 psi																															
L		H		G _g .650		Prover Meter Run																															
FLOW DATA				TUBING DATA		CASING DATA																															
NO.	Prover Line Size	X	Orifice Size	Press. p.s.i.g.	Diff. h _w	Temp. °F	Duration of Flow																														
51	7 days																																				
1.	2 inch	.750	51				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 Q, Mcfd																														
1	12.3650		63	1.000	.9608	1.000	748																														
2.																																					
3.																																					
4.																																					
5.																																					
NO.	P _r	Temp. °R	T _r	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																																
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																																
$P_c = 1815$ $P_c^2 = 3294225$ <table border="1" style="width:100%; border-collapse: collapse;"> <tr> <td>NO.</td> <td>P_i²</td> <td>P_w</td> <td>P_w²</td> <td>P_c² - P_w²</td> </tr> <tr> <td>1</td> <td></td> <td>158</td> <td>24964</td> <td>3269261</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>								NO.	P _i ²	P _w	P _w ²	P _c ² - P _w ²	1		158	24964	3269261	2					3					4					5				
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1		158	24964	3269261																																	
2																																					
3																																					
4																																					
5																																					
$(1) \frac{P_c^2}{P_c^2 - P_w^2} = 1.0076$ $(2) \left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 1.00572$ $AOF = Q \left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 752$																																					
Absolute Open Flow _____ 752 _____ Mcfd @ 15.025				Angle of Slope θ _____		Slope, n _____ .75 _____																															
Remarks: _____																																					
Approved By Division		Conducted By: Joe Ellledge		Calculated By: Joe Ellledge		Checked By: Curtis J. Little																															