

MULTIPOINT AND ONE POINT BACK PRESSURE TEST FOR GAS WELL

Type Test ☒ Initial ☐ Annual ☐ Special		Test Date 7-13-82																																																																																			
Company Southern Union Exp of Texas		Connection																																																																																			
Pool Basin		Formation Dakota																																																																																			
Completion Date 7-6-82	Total Depth 7890	Plug Back TD 7875	Location 6685																																																																																		
Casing Size 5.500		Well No. 17	Set At 4.892																																																																																		
Perforations From 7675 To 7846		Well No. D 10E																																																																																			
Perforations From 7665 To 7640		Well No. B 22 26 4																																																																																			
Type Well - Single - Production - C.G. or G.O. Multiple Dual Gas-Gas Gallup-Dakota		Packer Set At 7640 RKB																																																																																			
Producing Thru Tbg.		County Rio Arriba																																																																																			
Reservoir Temp. °F #		State New Mexico																																																																																			
L 5250	H	Gg	% CO ₂																																																																																		
<table border="1" style="width:100%; border-collapse: collapse;"> <tr> <th colspan="4">FLOW DATA</th> <th colspan="2">TUBING DATA</th> <th colspan="2">CASING DATA</th> <th colspan="2">Duration of Flow</th> </tr> <tr> <th>NO.</th> <th>Prover Line Size</th> <th>X</th> <th>Orifice Size</th> <th>Press. p.s.i.g.</th> <th>Diff. h_v</th> <th>Temp. °F</th> <th>Press. p.s.i.g.</th> <th>Temp. °F</th> <th>Procs. p.s.i.g.</th> <th>Temp. °F</th> <th>Duration of Flow</th> </tr> <tr> <td>1.</td> <td></td> <td></td> <td>.750</td> <td>46</td> <td></td> <td>82</td> <td>1910</td> <td></td> <td></td> <td></td> <td>3 Hours</td> </tr> <tr><td>2.</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr> <tr><td>3.</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr> <tr><td>4.</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr> <tr><td>5.</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr> </table>				FLOW DATA				TUBING DATA		CASING DATA		Duration of Flow		NO.	Prover Line Size	X	Orifice Size	Press. p.s.i.g.	Diff. h _v	Temp. °F	Press. p.s.i.g.	Temp. °F	Procs. p.s.i.g.	Temp. °F	Duration of Flow	1.			.750	46		82	1910				3 Hours	2.												3.												4.												5.											
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RATE OF FLOW CALCULATIONS																																																																																					
NO.	Coefficient (24 Hour)	$\sqrt{h_w P_m}$	Pressure P _m	Flow Temp. Factor Ft.	Gravity Factor Fg	Super Compress. Factor, F _{pv}	Rate of Flow Q, Mhd																																																																														
1	12.3650		58	.9795	.9463	1.003	667																																																																														
2.																																																																																					
3.																																																																																					
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5.																																																																																					
NO.	P _t	Temp. °R	T _t	Z	Gas Liquid Hydrocarbon Ratio _____ Mhd, bbl.																																																																																
1					A.P.I. Gravity of Liquid Hydrocarbons _____ Deg.																																																																																
2.					Specific Gravity Separator Gas .670 est XXXXXXXXXX																																																																																
3.					Specific Gravity Flowing Fluid XXXXX																																																																																
4.					Critical Pressure _____ P.S.I.A. _____ P.S.I.A.																																																																																
5.					Critical Temperature _____ R _____ R																																																																																
$P_c = 1922$ $P_c^2 = 3694084$																																																																																					
NO.	P ₁	P ₂	P ₃	P ₄	$(1) \frac{P_c^2}{P_1^2 - P_2^2} = 1.0013$ $(2) \left[\frac{P_c^2}{P_1^2 - P_2^2} \right]^n = 1.0010$																																																																																
1	3364	69	4761	3689323																																																																																	
2.																																																																																					
3.																																																																																					
4.																																																																																					
5.																																																																																					
Absolute Open Flow 668 Mhd @ 15.025					Angle of Slope θ _____ Slope, n .75																																																																																
Remarks: Well was tested thur a 3/4" choke																																																																																					
Approved by Division		Conducted by C. P. Wagner		Calculated by C. P. Wagner		Checked by																																																																															

