

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

Form C-122
Revised 9-1-65

Type Test ☒ Initial ☐ Annual ☐ Special					Test Date 8/11/69																																																																																	
Company SOUTHERN UNION PRODUCTION CO.				Connection SOUTHERN UNION GAS COMPANY																																																																																		
Pool UNDESIGNATED				Formation GALLUP		Unit																																																																																
Completion Date 7/30/69		Total Depth 7695		Plug Back TD 7653		Elevation 6642																																																																																
Perforations: From 6569 To 6902		Perforations: From 6874 To 6882		Farm or Lease Name JICARILLA "H"																																																																																		
Well No. 7		Unit Sec. Twp. Rge. K 19 26N 4W																																																																																				
Type Well - Single - Bradenhead - G.G. or G.O. Multiple DUAL GAS - GAS				Packer Set At 7296		County RIO ARriba																																																																																
Producing Thru TUBING		Reservoir Temp. °F 26.40		Mean Annual Temp. °F 15.50		State NEW MEXICO																																																																																
Baro. Press. - P _a 12																																																																																						
L 6862	H	G _g .700	% CO ₂	% N ₂	% H ₂ S	Prover																																																																																
<table border="1" style="width:100%; border-collapse: collapse;"> <tr> <th colspan="6">FLOW DATA</th> <th>TUBING DATA</th> <th>CASING DATA</th> <th rowspan="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_w</th> <th>Temp. °F</th> <th>Press. p.s.i.g.</th> <th>Temp. °F</th> <th>Press. p.s.i.g.</th> <th>Temp. °F</th> </tr> <tr> <td>1</td> <td>2"</td> <td></td> <td>3/4"</td> <td></td> <td></td> <td></td> <td>1546</td> <td></td> <td>1515</td> <td></td> <td>9 DAYS</td> </tr> <tr> <td>2</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>60</td> <td>53°</td> <td>424</td> <td></td> <td>3 HOURS</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 _w	Temp. °F	Press. p.s.i.g.	Temp. °F	Press. p.s.i.g.	Temp. °F	1	2"		3/4"				1546		1515		9 DAYS	2							60	53°	424		3 HOURS	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, Fpv	Rate of Flow Q, Mcfd																																																																															
1	12.3650		72	1.0068	0.9258	1.0000	830																																																																															
2																																																																																						
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NO.	P _r	Temp. °R	T _r	Z	Gas Liquid Hydrocarbon Ratio _____ Mcf/bbl. A.P.I. Gravity of Liquid Hydrocarbons _____ Deg. Specific Gravity Separator Gas _____ X X X X X X X X Specific Gravity Flowing Fluid _____ X X X X X Critical Pressure _____ P.S.I.A. _____ P.S.I.A. Critical Temperature _____ R _____ R																																																																																	
1	1558																																																																																					
2																																																																																						
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4																																																																																						
5																																																																																						
NO.	P _c	P _w	P _w ²	P _c ² - P _w ²	(1) $\frac{P_c^2}{P_c^2 - P_w^2} = \underline{1.0850}$ (2) $\left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = \underline{1.0631}$																																																																																	
1		436	190,096	2,237,268																																																																																		
2																																																																																						
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ACF = Q $\left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = \underline{882}$																																																																																						
At separator flow 882 Mcfd @ 15.025					Angle of Slope θ _____																																																																																	
					Slope, n .75																																																																																	
Remarks:																																																																																						
Approved By Commission: _____ Conducted By: KENNETH E. RODDY Calculated By: KENNETH E. RODDY Checked By: KENNETH E. RODDY																																																																																						