

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 12/27/66																																																																																	
Company SOUTHERN UNION PRODUCTION CO.				Connection EL PASO NATURAL GAS COMPANY																																																																																	
Pool BASIN				Formation DAKOTA																																																																																	
Completion Date 12/9/66		Total Depth 6850		Plug Back TD 6818																																																																																	
Elevation 6429		Farm or Lease Name NEWSOM "B"																																																																																			
Csg. Size 4.500	Wt. 10.50	d 4.052	Set A 6349	Perforations: From 6588 To 6806																																																																																	
Tbg. Size 1.900	Wt. 2.90	d 1.610	Set A 6377	Perforations: From 6669 To 6677																																																																																	
Type Well - Single - Bradenhead - G.G. or G.O. Multiple SINGLE - GAS				Packer Set At																																																																																	
Producing Thru TUBING		Reservoir Temp. °F @		Baro. Press. - P _a 12																																																																																	
L 6659		H	Gg	% CO ₂	% N ₂																																																																																
Prover		Meter Run		Taps																																																																																	
<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 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>3/4"</td> <td></td> <td></td> <td></td> <td></td> <td>2069</td> <td></td> <td>2070</td> <td></td> <td>16 DAYS</td> </tr> <tr> <td>2.</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>321</td> <td>65</td> <td>1144</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"					2069		2070		16 DAYS	2.							321	65	1144		3 HOURS	3.												4.												5.											
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"					2069		2070		16 DAYS																																																																										
2.							321	65	1144		3 HOURS																																																																										
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 Fg	Super Compress. Factor, Fpv	Rate of Flow Q, Mcfd																																																																														
1.	12.3650		333	.9952	.9258	1.038	3,938																																																																														
2.																																																																																					
3.																																																																																					
4.																																																																																					
5.																																																																																					
NO.	P _t	Temp. °R	T _t	Gas Liquid Hydrocarbon Ratio _____ Mcf/bbl. A.P.I. Gravity of Liquid Hydrocarbons _____ Deg. Specific Gravity Separator Gas _____ Specific Gravity Flowing Fluid _____ Critical Pressure _____ P.S.I.A. Critical Temperature _____ °R																																																																																	
1.																																																																																					
2.																																																																																					
3.																																																																																					
4.																																																																																					
5.																																																																																					
NO.	P _t	P _w	P _c	(1) $\frac{P_c^2}{P_c^2 - P_w^2} = 1.4457$ (2) $\left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 1.3184$																																																																																	
1.		1,156	1,336,336																																																																																		
2.																																																																																					
3.																																																																																					
4.																																																																																					
5.																																																																																					
Absolute Open Flow 5,192				Mcf/d @ 15.025		Angle of Slope θ																																																																															
Slope, n .75																																																																																					
Remarks:																																																																																					
Original signed by																																																																																					
Approved By Commission:		Conducted By		Calculated By:		Checked By:																																																																															
		KENNETH E. RODDY		KENNETH E. RODDY		KENNETH E. RODDY																																																																															

