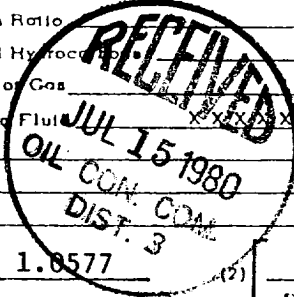


MULTIPOINT AND ONE POINT BACK PRESSURE TEST FOR GAS WELL

Type Test ☒ Initial ☐ Annual ☐ Special				Test Date 7-7-80																																																																																			
Company J. Gregory Merrion				Connection																																																																																			
Pool Basin				Formation Dakota																																																																																			
Completion Date 6-9-80		Total Depth 6750		Plug Back TD 6711																																																																																			
Elevation		Farm or Lease Name Federal																																																																																					
Csg. Size 4-1/2	Wt. 10.5	d	Set At 6750	Perforations: From 6509 To 6720																																																																																			
Thg. Size 2-3/8	Wt. 4.7	d	Set At 6495	Perforations: From To																																																																																			
Type Well - Single - Bradenhead - G.C. or G.O. Multiple Single				Packer Set At																																																																																			
Producing Thru tubing		Reservoir Temp. °F 160 @ 6600		Mean Annual Temp. °F 60																																																																																			
				Baro. Press. - P _a 12																																																																																			
L 6495		H	G _g	% CO ₂	% N ₂																																																																																		
				% H ₂ S	Prover																																																																																		
				Meter Run	Taps																																																																																		
<table border="1" style="width:100%; border-collapse: collapse;"> <tr> <th colspan="6">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></td> <td>3/4</td> <td>172</td> <td></td> <td>60</td> <td>172</td> <td></td> <td>385</td> <td></td> <td>3 hrs</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 _w	Temp. °F	Press. p.s.i.g.	Temp. °F	Press. p.s.i.g.	Temp. °F	1.	2		3/4	172		60	172		385		3 hrs	2.												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																																																																												
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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	12.49		184	1.000	0.9258	1.047	2227																																																																																
2.																																																																																							
3.																																																																																							
4.																																																																																							
5.																																																																																							
NO.	P _t	Temp. °R	T _r	Z	Gas Liquid Hydrocarbon Ratio _____ Mcf/bbl. A.P.I. Gravity of Liquid Hydrocarbon _____ Deg. Specific Gravity Separator Gas _____ Specific Gravity Flowing Fluid _____ Critical Pressure _____ P.S.I.A. Critical Temperature _____ R																																																																																		
1																																																																																							
2.																																																																																							
3.																																																																																							
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5.																																																																																							
P _c 1612 P _c ² 2,598,544 NO. P _t ² P _w ² P _c ² - P _w ²					(1) $\frac{P_c^2}{P_c^2 - P_w^2} = 1.0577$ (2) $\left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 1.043$																																																																																		
1	33856	377	141856	2,456,688	AOF = Q $\left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 2323$																																																																																		
2.																																																																																							
3.																																																																																							
4.																																																																																							
5.																																																																																							
Absolute Open Flow 2323					Mcf @ 15.025					Angle of Slope θ		Slope, n 0.75																																																																											
Remarks:																																																																																							
Approved By Division <i>[Signature]</i> Conducted By: Calculated By: Checked By:																																																																																							