

MULTIPOINT AND ONE POINT BACK PRESSURE TEST FOR GAS WELL

Type Test ☒ Initial ☐ Annual ☒ Special				Test Date 6-3-82																																																																																									
Company Amoco Production Company				Connection Northwest Pipeline Corporation																																																																																									
Pool South Blanco				Formation Pictured Cliffs																																																																																									
Completion Date 5-21-82		Total Depth 4192		Plug Back TD 4149																																																																																									
				Elevation 6930 GL																																																																																									
Farm or Lease Name Jicarilla Contract 148																																																																																													
Csq. Size 5.500	Wt. 15.50	d 4.976	Set At 4192	Perforations: From 3186 To 3214																																																																																									
Thq. Size 1.660	Wt. 2.33	d 1.380	Set At 3190	Perforations: From orange peel To perf sub																																																																																									
Type Well - Single - Bradenhead - G.G. or G.O. Multiple Dual				Packer Set At 3400																																																																																									
Producing Thru Tubing		Reservoir Temp. °F θ		Mean Annual Temp. °F																																																																																									
				Baro. Press. - P _a																																																																																									
L		H	G _q	% 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>SI</td> <td>7 Days</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>254</td> <td></td> <td>254</td> <td></td> </tr> <tr> <td>1.</td> <td>2.375</td> <td></td> <td>.750</td> <td></td> <td></td> <td></td> <td>57</td> <td></td> <td>220</td> <td></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></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></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></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></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	SI	7 Days						254		254		1.	2.375		.750				57		220		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 F _t	Gravity Factor F _g	Super Compress. Factor, F _{pv}	Rate of Flow Q, Mcfd																																																																																						
1	12.365		69	1.000	.9608	1.006	825																																																																																						
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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																																																																																								
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P _c 266 P _c ² 70756 NO.1 P _t ² P _w P _w ² P _c ² - P _w ²					(1) $\frac{P_c^2}{P_c^2 - P_w^2} = 4.1788$ (2) $\left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 3.3721$																																																																																								
1		232	53824	16932	AOF = Q $\left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 2782$																																																																																								
2																																																																																													
3																																																																																													
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5																																																																																													
Absolute Open Flow 2782 Mcfd @ 15.025					Angle of Slope θ			Slope, n .85																																																																																					
Remarks: Flowed dry; perf sub set at 3186																																																																																													
Approved by Division _____ Conducted By: J. J. Barnett Calculated By: J. J. Barnett Checked By:																																																																																													