

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 07 21 80																																																																											
Company AMOCO PRODUCTION CO.				Connection EL PASO NATURAL GAS COMPANY																																																																												
Pool BASIN				Formation DAKOTA		Unit																																																																										
Completion Date 06 17 80		Total Depth 6228		Plug Back TD 6194		Elevation 5461 GL																																																																										
Csg. Size 4.500		Wt. 10.5	d 4.052	Set At 6228	Perforations: From 5992 To 6114																																																																											
Tbg. Size 2.375		Wt. 4.7	d 1.995	Set At 6115	Perforations: From open To ended																																																																											
Type Well - Single - Bradenhead - G.G. or G.O. Multiple SINGLE					Packer Set At NONE																																																																											
Producing Thru TUBING		Reservoir Temp. °F @		Mean Annual Temp. °F		Baro. Press. - P _a																																																																										
L		H	Gg	% CO ₂	% N ₂	% H ₂ S																																																																										
						Prover																																																																										
						Meter Run																																																																										
						Taps																																																																										
<table border="1" style="width:100%; border-collapse: collapse;"> <tr> <th colspan="5">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> </tr> <tr> <td>SI</td> <td>11 days</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>540</td> <td>631</td> <td rowspan="5">3 hrs</td> </tr> <tr> <td>1.</td> <td>2.375</td> <td>.750</td> <td></td> <td></td> <td></td> <td></td> <td>48</td> <td>206</td> </tr> <tr><td>2.</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></tr> <tr><td>4.</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></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	SI	11 days						540	631	3 hrs	1.	2.375	.750					48	206	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																																																																								
SI	11 days						540	631	3 hrs																																																																							
1.	2.375	.750					48	206																																																																								
2.																																																																																
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	12.365		60	1.000	.9258	1.007	692																																																																									
2.																																																																																
3.																																																																																
4.																																																																																
5.																																																																																
NO.	P _f	Temp. °R	T _f	Z	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.																																																																																
$P_c = 643 \times 10^2 = 413449$					(1) $\frac{P_c^2}{P_c^2 - P_w^2} = 1.1272$ (2) $\left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 1.0940$																																																																											
NO.	P _f ²	P _w	P _w ²	P _c ² - P _w ²	AOF = Q $\left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 757$																																																																											
1		216	46656	366793																																																																												
2.																																																																																
3.																																																																																
4.																																																																																
5.																																																																																
Absolute Open Flow 757 Mcfd @ 15.025					Angle of Slope θ _____		Slope, n .75																																																																									
Remarks:																																																																																
Approved By Commission:		Conducted By: JJB		Calculated By: J J BARNETT		Checked By: R. A. DOWNEY																																																																										