

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 3/14/81																																																																																															
Company Amoco Production Co.				Connection El Paso Natural Gas Co.																																																																																															
Pool Undes.				Formation Gallup																																																																																															
Completion Date 2/13/81		Total Depth 6915		Elevation 6023																																																																																															
Csg. Size 7.000		Wt. 23		Perforations: From 3347 To 4163																																																																																															
Tbg. Size 2.375		Wt. 4.7		Perforations: From Open To Ended																																																																																															
Type Well - Single - Bradenhead - G.G. or G.O. Multiple dual				Packer Set At 4338																																																																																															
Producing Thru tubing		Reservoir Temp. °F 0		Mean Annual Temp. °F 0																																																																																															
L		H		Baro. Press. - P _a																																																																																															
G _g .68		% CO 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>930</td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>1.</td> <td>2.375</td> <td></td> <td>.750</td> <td></td> <td></td> <td></td> <td>120</td> <td></td> <td></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	SI	7 days						930					1.	2.375		.750				120				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																																																																																								
SI	7 days						930																																																																																												
1.	2.375		.750				120				3 hrs																																																																																								
2.																																																																																																			
3.																																																																																																			
4.																																																																																																			
5.																																																																																																			
<table border="1" style="width:100%; border-collapse: collapse;"> <tr> <th colspan="8">RATE OF FLOW CALCULATIONS</th> </tr> <tr> <th>NO.</th> <th>Coefficient (24 Hour)</th> <th>$\sqrt{h_w P_m}$</th> <th>Pressure P_m</th> <th>Flow Temp. Factor Ft</th> <th>Gravity Factor Fg</th> <th>Super. Factor Fpv</th> <th>Rate of Flow Q, Mcfd</th> </tr> <tr> <td>1</td> <td>12.365</td> <td></td> <td>132</td> <td>1.000</td> <td>.9258</td> <td>1.015</td> <td>1534</td> </tr> <tr><td>2.</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></tr> <tr><td>4.</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></tr> </table>												RATE OF FLOW CALCULATIONS								NO.	Coefficient (24 Hour)	$\sqrt{h_w P_m}$	Pressure P _m	Flow Temp. Factor Ft	Gravity Factor Fg	Super. Factor Fpv	Rate of Flow Q, Mcfd	1	12.365		132	1.000	.9258	1.015	1534	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. Factor Fpv	Rate of Flow Q, Mcfd																																																																																												
1	12.365		132	1.000	.9258	1.015	1534																																																																																												
2.																																																																																																			
3.																																																																																																			
4.																																																																																																			
5.																																																																																																			
<table border="1" style="width:100%; border-collapse: collapse;"> <tr> <th>NO.</th> <th>P_t</th> <th>Temp. °R</th> <th>T_t</th> <th>Z</th> <th>Gas Liquid Hydrocarbon Ratio</th> <th>_____ Mcf/bbl.</th> </tr> <tr> <td>1.</td> <td></td> <td></td> <td></td> <td></td> <td>A.P.I. Gravity of Liquid Hydrocarbons</td> <td>_____ Deg.</td> </tr> <tr> <td>2.</td> <td></td> <td></td> <td></td> <td></td> <td>Specific Gravity Separated Gas</td> <td>XXXXXXX</td> </tr> <tr> <td>3.</td> <td></td> <td></td> <td></td> <td></td> <td>Specific Gravity Flowing Fluid</td> <td>XXXXXXX</td> </tr> <tr> <td>4.</td> <td></td> <td></td> <td></td> <td></td> <td>Critical Pressure _____ P.S.I.A.</td> <td>_____ P.S.I.A.</td> </tr> <tr> <td>5.</td> <td></td> <td></td> <td></td> <td></td> <td>Critical Temperature _____ R</td> <td>_____ R</td> </tr> </table>												NO.	P _t	Temp. °R	T _t	Z	Gas Liquid Hydrocarbon Ratio	_____ Mcf/bbl.	1.					A.P.I. Gravity of Liquid Hydrocarbons	_____ Deg.	2.					Specific Gravity Separated Gas	XXXXXXX	3.					Specific Gravity Flowing Fluid	XXXXXXX	4.					Critical Pressure _____ P.S.I.A.	_____ P.S.I.A.	5.					Critical Temperature _____ R	_____ R																																														
NO.	P _t	Temp. °R	T _t	Z	Gas Liquid Hydrocarbon Ratio	_____ Mcf/bbl.																																																																																													
1.					A.P.I. Gravity of Liquid Hydrocarbons	_____ Deg.																																																																																													
2.					Specific Gravity Separated Gas	XXXXXXX																																																																																													
3.					Specific Gravity Flowing Fluid	XXXXXXX																																																																																													
4.					Critical Pressure _____ P.S.I.A.	_____ P.S.I.A.																																																																																													
5.					Critical Temperature _____ R	_____ R																																																																																													
<table border="1" style="width:100%; border-collapse: collapse;"> <tr> <td colspan="4"> P_c 942 P_c² 887364 </td> <td colspan="2"> (1) $\frac{P_c^2}{P_c^2 - P_w^2} = 1.0640$ </td> <td colspan="2"> (2) $\left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 1.0476$ </td> </tr> <tr> <th>NO.</th> <th>P_t</th> <th>P_w</th> <th>P_w²</th> <th>P_c² - P_w²</th> <th colspan="3"> AOF = Q $\left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 1607$ </th> </tr> <tr> <td>1</td> <td></td> <td>231</td> <td>53361</td> <td>834003</td> <td colspan="3"></td> </tr> <tr><td>2</td><td></td><td></td><td></td><td></td><td colspan="3"></td></tr> <tr><td>3</td><td></td><td></td><td></td><td></td><td colspan="3"></td></tr> <tr><td>4</td><td></td><td></td><td></td><td></td><td colspan="3"></td></tr> <tr><td>5</td><td></td><td></td><td></td><td></td><td colspan="3"></td></tr> </table>												P _c 942 P _c ² 887364				(1) $\frac{P_c^2}{P_c^2 - P_w^2} = 1.0640$		(2) $\left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 1.0476$		NO.	P _t	P _w	P _w ²	P _c ² - P _w ²	AOF = Q $\left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 1607$			1		231	53361	834003				2								3								4								5																																							
P _c 942 P _c ² 887364				(1) $\frac{P_c^2}{P_c^2 - P_w^2} = 1.0640$		(2) $\left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 1.0476$																																																																																													
NO.	P _t	P _w	P _w ²	P _c ² - P _w ²	AOF = Q $\left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 1607$																																																																																														
1		231	53361	834003																																																																																															
2																																																																																																			
3																																																																																																			
4																																																																																																			
5																																																																																																			
Absolute Open Flow <u>1607</u> P-Rate 15.025 Angle of Slope θ _____ Slope, n <u>.75</u>																																																																																																			
Remarks: <u>Med. spray H₂O dual well</u>																																																																																																			
<table border="1" style="width:100%; border-collapse: collapse;"> <tr> <td>Approved by Commission</td> <td>Conducted By JJB </td> <td>Calculated By J. J. BARNETT </td> <td>Checked By</td> </tr> </table>												Approved by Commission	Conducted By JJB	Calculated By J. J. BARNETT	Checked By																																																																																				
Approved by Commission	Conducted By JJB	Calculated By J. J. BARNETT	Checked By																																																																																																