

NEW MEXICO OIL CONSERVATION COMMISSION
MULTIPOINT AND ONE POINT BACK PRESSURE TEST FOR GAS WELL

Form C-121
Revised 9-1-65

Type Test ☒ Initial ☐ Annual ☐ Special					Test Date 4-12-78																																																																																														
Company Amaco Production Company				Connection Gas Company of New Mexico																																																																																															
Pool Blanco				Formation Mesaverde																																																																																															
Completion Date 4-3-78		Total Depth 6249		Plug Back TD 6200		Elevation 7139																																																																																													
Farm or Lease Name Jicarilla Apache 102						Well No. 29																																																																																													
Csg. Size 7.000	Wt. 20	d 6.456	Set At 4252	Perforations: From 5526 To 6072		Unit 29																																																																																													
Tbg. Size 2.375	Wt. 4.7	d 1.995	Set At 6069	Perforations: From OPEN To ENDED		Unit Sec. Twp. Rge. G 9 26 4																																																																																													
Type Well - Single - Bradenhead - G.G. or G.O. Multiple single				Packer Set At none		County Rio Arriba																																																																																													
Producing Thru Tubing		Reservoir Temp. °F @		Mean Annual Temp. °F @		Baro. Press. - P _a New Mexico																																																																																													
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 align="center" colspan="6">FLOW DATA</th> <th align="center">TUBING DATA</th> <th align="center">CASING DATA</th> <th align="center">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> <th></th> </tr> <tr> <td>SI</td> <td>9 days</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>1090</td> <td></td> <td>1090</td> <td></td> <td></td> </tr> <tr> <td>1.</td> <td>2.375</td> <td>0.750</td> <td></td> <td></td> <td></td> <td></td> <td>140</td> <td>60</td> <td>560</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	9 days						1090		1090			1.	2.375	0.750					140	60	560		3 hrs.	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 Ft.	Gravity Factor Fg	Super Compress. Factor, Fpv	Rate of Flow Q, Mcfd																																																																																												
1.	12.365		152	1.000	.9066	1.018	1735																																																																																												
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NO.	P _t	Temp. °R	T _f	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 1102 P _c ² 1214404 <table border="1" style="width:100%; border-collapse: collapse;"> <tr> <th>NO.</th> <th>P_t²</th> <th>P_w</th> <th>P_w²</th> <th>P_c² - P_w²</th> </tr> <tr><td>1.</td><td></td><td></td><td></td><td></td></tr> <tr><td>2.</td><td></td><td></td><td></td><td></td></tr> <tr><td>3.</td><td></td><td></td><td></td><td></td></tr> <tr><td>4.</td><td></td><td></td><td></td><td></td></tr> <tr><td>5.</td><td></td><td></td><td></td><td></td></tr> </table>					NO.	P _t ²	P _w	P _w ²	P _c ² - P _w ²	1.					2.					3.					4.					5.					(1) $\frac{P_c^2}{P_c^2 - P_w^2} = \mathbf{1.3668}$ (2) $\left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = \mathbf{1.2655}$ AOF = Q $\left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = \mathbf{2196}$																																																																
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Absolute Open Flow 2196 Mcfd @ 15.025					Angle of Slope θ _____ Slope, n _____																																																																																														
Remarks: 4.5", 10.5# liner set 4032' - 6249'																																																																																																			
Approved By Commission:				Conducted By: T.M. Oliver				Calculated By: T.M.O./W.R.B.																																																																																											
Checked By: J.L. Krupke																																																																																																			