

NEW MEXICO OIL CONSERVATION COMMISSION
MULTIPOINT AND ONE POINT BACK PRESSURE TEST FOR GAS WELLForm C-122
Revised 9-1-65

Type Test ☒ Initial ☐ Annual ☐ Special					Test Date 9-5-75																																																																																																		
Company Dugan Production Corp.				Connection																																																																																																			
Pool Undesignated - PC				Formation Pictured Cliffs				Unit																																																																																															
Completion Date 8-26-75		Total Depth 1275'		Plug Back TD 1251'		Elevation 6174'		Farm or Lease Name Rachel																																																																																															
Csg. Size 2-7/8"	Wt. 6.5#	d	Set At 1251'	Perforations: From 1145' To 1151'				Well No. 1																																																																																															
Tbg. Size ---	Wt.	d	Set At	Perforations: From To				Unit Sec. Twp. Rge. L 34 26N 12W																																																																																															
Type Well - Single - Bradenhead - G.G. or G.O. Multiple Single - Gas					Packer Set At		County San Juan																																																																																																
Producing Thru Csg		Reservoir Temp. °F @		Mean Annual Temp. °F		Baro. Press. - P _a		State 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 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>Sl</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>175</td> <td></td> <td>7 Days</td> </tr> <tr> <td>1.</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>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>5/8" Pos. Choke</td> <td></td> <td></td> <td>1</td> <td></td> <td>82°</td> <td></td> <td></td> <td>1</td> <td></td> <td>3 Hrs</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	Sl									175		7 Days	1.												2.												3.	5/8" Pos. Choke			1		82°			1		3 Hrs	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																																																																																																
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NO.	P _t	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 187 P _c ² 34,969 <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>13</td> <td>169</td> <td>34,800</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		13	169	34,800	4					5					(1) $\frac{P_c^2}{P_c^2 - P_w^2} = 1.00$ (2) $\left[\frac{P_c^2}{P_c^2 - P_w^2} \right]$ AOF = Q $\left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 107$																																																																				
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Absolute Open Flow <u>107</u> Mcfd @ 15.025 Angle of Slope θ _____ Slope, m _____																																																																																																							
Remarks: _____																																																																																																							
Approved By Commission: _____ Conducted By: Charles Hall Calculated By: Charles Hall Checked By: _____																																																																																																							

