

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

Type Test <input checked="" type="checkbox"/> Initial <input type="checkbox"/> Annual <input type="checkbox"/> Special					Test Date 9-22-75																																																																																																		
Company Dugan Production Corp.				Connection																																																																																																			
Pool Undesignated PC				Formation Pictured Cliffs				Unit																																																																																															
Completion Date 9-14-75		Total Depth 1240'		Plug Back TD 1198'		Elevation 6228' GR		Farm or Lease Name Red Mac																																																																																															
Csg. Size 2-7/8"	Wt. 6.5#	d	Set At 1220'	Perforations: From 1125' To 1140'		Well No. 1																																																																																																	
Tbg. Size	Wt.	d	Set At	Perforations: From To		Unit J 3 25N 12W																																																																																																	
Type Well - Single - Bradenhead - G.G. or G.O. Multiple Gas - Single					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>SI</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>190</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>2</td> <td></td> <td>65°</td> <td></td> <td></td> <td>2</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	SI									190		7 days	1.												2.												3.	5/8" Pos Choke			2		65°			2		3 hrs	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									190		7 days																																																																																												
1.																																																																																																							
2.																																																																																																							
3.	5/8" Pos Choke			2		65°			2		3 hrs																																																																																												
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																																																																																																							
2																																																																																																							
3	8.5417		14	.9952	.9837	1.000	117																																																																																																
4																																																																																																							
5																																																																																																							
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 Specific Gravity Flowing Fluid _____ X X X X X Critical Pressure _____ P.S.I.A. Critical Temperature _____ °R																																																																																																		
1																																																																																																							
2																																																																																																							
3																																																																																																							
4																																																																																																							
5																																																																																																							
P _c 202 P _c ² 40,804 <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>14</td> <td>196</td> <td>40,608</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		14	196	40,608	4					5					(1) $\frac{P_c^2}{P_c^2 - P_w^2} = 1.00$ (2) $\left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^{.85} = 1.0000$ AOF = Q $\left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 117$																																																																				
NO.	P _t ²	P _w	P _w ²	P _c ² - P _w ²																																																																																																			
1																																																																																																							
2																																																																																																							
3		14	196	40,608																																																																																																			
4																																																																																																							
5																																																																																																							
Absolute Open Flow 117 Mcfd @ 15.025					Angle of Slope θ			Slope, n .85																																																																																															
Remarks:																																																																																																							
Approved By Commission: Conducted By: Charles Hall Calculated By: Charles Hall Checked By:																																																																																																							