

3-NMOCC (Aztec)

1-Tenneco (Castle)

1-EPNG (Clark)

1-File

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 4-20-77																																																																																															
Company Dugan Production Corp.				Connection																																																																																																
Pool NIPP - Pictured Cliffs				Formation Pictured Cliffs		Unit																																																																																														
Completion Date 4-12-77		Total Depth 1230'		Plug Back TD 1183'		Elevation 6156 GR																																																																																														
Csg. Size 2-7/8"		Wt. 6.4#		Set At 1217'		Perforations: From 1091' To 1094'																																																																																														
Tbg. Size 1-1/4"		Wt. 2.3#		Set At 1101' GR		Perforations: From To																																																																																														
Type Well - Single - Bradenhead - G.G. or G.O. Multiple Single - Gas					Packer Set At																																																																																															
Producing Thru		Reservoir Temp. °F @		Mean Annual Temp. °F		Baro. Press. - P _a																																																																																														
L		H		Gg		% CO ₂																																																																																														
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<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>224</td> <td></td> <td>224</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>1/2" Pos Choke</td> <td></td> <td></td> <td>5.4315</td> <td></td> <td></td> <td>4</td> <td></td> <td>25</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							224		224		7 days	1.												2.												3.	1/2" Pos Choke			5.4315			4		25		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 Ft.	Gravity Factor F _g	Super Compress. Factor, F _{pv}	Rate of Flow Q, Mcfd																																																																																													
1.																																																																																																				
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3.	5.4315		16	.9924	.9837	1.000	85																																																																																													
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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 _____ XXXXXXXXXX Specific Gravity Flowing Fluid _____ XXXXXX Critical Pressure _____ P.S.I.A. _____ P.S.I.A. Critical Temperature _____ R _____ R																																																																																															
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P _c 236 P _c ² 55,696 NO. P _t ² P _w P _w ² P _c ² - P _w ²					(1) $\frac{P_c^2}{P_c^2 - P_w^2} = 1.0252$ (2) $\left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 1.0214$																																																																																															
1.																																																																																																				
2.																																																																																																				
3.		37	1,369	54,327	AOF = Q $\left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 87$																																																																																															
4.																																																																																																				
5.																																																																																																				
Absolute Open Flow 87 Mcfd @ 15.025					Angle of Slope θ 3 .85																																																																																															
Remarks:																																																																																																				
Approved By Commission:		Conducted By:		Calculated By:		Checked By:																																																																																														
		Charles Hall		Jim L. Jacobs																																																																																																