

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 2-7-78																																																																																															
Company Marathon Oil Co.				Connection																																																																																																	
Pool Kutz Canyon				Formation Fruitland		Unit																																																																																															
Completion Date		Total Depth 1757		Plug Back TD 1718		Elevation 5685																																																																																															
Farm or Lease Name Ohio 'C' Gov't																																																																																																					
Csg. Size 4 1/2	Wt. 10.5	d	Set At 1757	Perforations: From 1424 To 1434		Well No.																																																																																															
Thq. Size 2 3/8	Wt. 4.7	d	Set At 1586	Perforations: From To		Unit Sec. 5 Twp. 26 Rge. 11																																																																																															
Type Well - Single - Bradenhead - G.G. or G.O. Multiple Dual Gas				Packer Set At 1586		County San Juan																																																																																															
Producing Thru Csg.		Reservoir Temp. °F 114 • 1580		Mean Annual Temp. °F		Baro. Press. - P _g 12.0																																																																																															
State New Mexico		Prover X		Meter Run		Taps																																																																																															
<table border="1" style="width:100%; border-collapse: collapse;"> <tr> <th align="center" colspan="6">FLOW DATA</th> <th align="center" colspan="2">TUBING DATA</th> <th align="center" colspan="2">CASING DATA</th> <th align="center" 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>14 days</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>218</td> <td></td> <td>560</td> <td></td> <td></td> </tr> <tr> <td>1.</td> <td>2 x 3/4</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>218</td> <td></td> <td>85</td> <td>60</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	14 days						218		560			1.	2 x 3/4						218		85	60	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 F _t	Gravity Factor F _g	Super Compress. Factor, F _{pv}	Rate of Flow Q, Mcfd																																																																																														
1	9.453		97	1.000	1.240		1134																																																																																														
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NO.	P _t	Temp. °R	T _f	Z	Gas Liquid Hydrocarbon Ratio _____ Mcf/bbl.
1.					A.P.I. Gravity of Liquid Hydrocarbons _____ Deg.
2.					Specific Gravity Separator Gas _____ X X X X X X X X
3.					Specific Gravity Flowing Fluid _____ X X X X X
4.					Critical Pressure _____ P.S.I.A. _____ P.S.I.A.
5.					Critical Temperature _____ R _____ R

P _c 572	P _c ² 327184	
NO.	P _t ²	P _w ²
1	92	9409
2		
3		
4		
5		

(1) $\frac{P_c^2}{P_c^2 - P_w^2} = 1.0296$

AOF = Q $\left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 1162$

(2) $\left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 1.0251$

Absolute Open Flow 1162	Mcf/d @ 15.025	Angle of Slope θ	Slope, n 85
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RECEIVED
FEB 21 1978
 U.S. Geological Survey
 Farmington, N.M.

Approved By Commission:	Conducted By: C. Seamon	Calculated By: Neil Tefteller	Checked By: M.E. O'Kush MARATHON OIL CO
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