

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 8-30-72		RECEIVED OCT 10 1972 OIL CON. COM. Dist. 3			
Company Marathon Oil Company				Connection							
Pool Basin Dakota				Formation Dakota							
Completion Date		Total Depth 7406		Plug Back TD 7365		Elevation 6616 KB					
Csg. Size 4.5		Wi. 11.6		Set At 7405		Perforations: From 7134 To 7358		Well No. 16			
Tbg. Size 2.375		Wi. 4.7		Set At 7070		Perforations: From To		Unit Sec. Twp. Rge. I 34 26 5			
Type Well - Single - Bradenhead - G.G. or G.O. Multiple Single						Packer Set At		County Rio Arriba			
Producing Thru Tubing		Reservoir Temp. °F @		Mean Annual Temp. °F		Baro. Press. - P _a 12.0		State New Mexico			
L		H		Gg		% CO ₂		% N ₂		% H ₂ S	
										Prover X	
										Meter Run	
										Taps	

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.	
1.	2	X	3/4				2373		2383	
2.							160	60	488	
3.										
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, Mc/d
1	12.3650		172	1.0000	.9608	1.052	2150
2.							
3.							
4.							
5.							

NO.	P _f	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 _____ XXXXXXXXXX	
3.					Specific Gravity Flowing Fluid _____ XXXXX	
4.					Critical Pressure _____ P.S.I.A. _____ P.S.I.A.	
5.					Critical Temperature _____ R _____ R	

NO.	P _f	P _w	P _w ²	P _c ² - P _w ²	$(1) \frac{P_c^2}{P_c^2 - P_w^2} = 1.0456$ $(2) \left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 1.0339$ $AOF = Q \left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 2223$
1		500	250000	5486025	
2					
3					
4					

Absolute Open Flow <u>2223</u> Mc/d @ 15.025		Angle of Slope θ _____	Slope, n <u>.75</u>
Remarks: _____			
Approved By Commission:		Conducted By:	Calculated By: Neil Tefteller
			Checked By: