

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 4-11-83	
Company Marathon Oil Company				Connection	
Pool Basin Dakota				Formation Dakota	
Completion Date		Total Depth 7463		Plug Back TD 6566	
				Elevation 6,566 GL	
Csg. Size 4 1/2		Wt. d		Set At 7423	
Tbg. Size 2 3/8		Wt. d		Set At 7122	
Perforations: From 7102 To 7331				Well No. 14-E	
Type Well - Single - Bradenhead - G.G. or G.O. Multiple Multiple-G.G.				Packer Set At 5287	
Producing Thru Tubing				Reservoir Temp. °F @	
Mean Annual Temp. °F				Baro. Press. - P _a	
State New Mexico				County Rio Arriba	
L		H		Gg	
				.65 Est	
% CO ₂		% N ₂		% H ₂ S	
Prover		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.		Temp. °F
SI							1747	60	229	60	7 days
1.	2" x 3/4" pos.						194	60	234	60	3 hrs.
2.											
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 F _g	Super Compress. Factor, F _{pv}	Rate of Flow Q, Mcfd
1	11.0		206	1.000	1.240	1.021	2868.8
2.							
3.							
4.							
5.							

NO.	P _t	Temp. °R	T _r	Z	Gas Liquid Hydrocarbon Ratio	Mcf/bbl.
1.					A.P.I. Gravity of Liquid Hydrocarbons	Deq.
2.					Specific Gravity Separator Gas	XXXXXXX
3.					Specific Gravity Flowing Fluid	XXXXX
4.					Critical Pressure	P.S.I.A.
5.					Critical Temperature	R

P _c 1759		P _c ² 3094.1	
NO.	P _t ²	P _w	P _w ²
1		460.7	212.2
2			
3			
4			
5			

(1) $\frac{P_c^2}{P_c^2 - P_w^2} = 1.0736$

AGP = $\left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 3025.7$

(2) $\left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 1.0547$

Absolute Open Flow	3025.7	Mcf/d @ 15.025	Angle of Slope	Slope, n .75
Remarks:				

Approved By Commission:	Conducted By: Teffteller, Inc.	Calculated By: G. W. Taylor	Checked By: Jim Barte 5/24/83
-------------------------	-----------------------------------	--------------------------------	----------------------------------