

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 4-8-67	
Company Marathon Oil Co.			Connection		
Pool Basin Dakota			Formation Dakota		Unit
Completion Date 3/21/67		Total Depth 7395	Plug Back TD 7348	Elevation 6611 KB	Farm or Lease Name Jicarilla Apache
Csg. Size 5 1/2	Wt. 15.5 #17	d	Set At 7384	Perforations: From 7094 To 7322	Well No. 13
Thg. Size 2 3/8	Wt. 4.60 SEALOCK	d	Set At 7050	Perforations: From To	Unit Sec. Twp. Rge. M 33 26 5
Type Well - Single - Bradenhead - G.G. or G.O. Multiple Dual Gas				Packer Set At 7050	County Rio Arriba
Producing Thru Thg		Reservoir Temp. °F @	Mean Annual Temp. °F	Baro. Press. - P _g 12.0	State New Mexico
L	H	Gg	% 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							2402		Pkr		
1.	2 x 3/4						368	60	Pkr		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 Fg	Super Compress. Factor, F _{pv}	Rate of Flow Q, Mcfd
1	12.3650		380	1.000	.9608	1.039	4686
2.							
3.							
4.							
5.							

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

P _c 2414	P _c ² 5827396			
NO.	P _t ²	P _w	P _w ²	P _c ² - P _w ²
1		833	693733	5133663
2				
3				
4				
5				

(1) $\frac{P_c^2}{P_c^2 - P_w^2} = \underline{1.1351}$ (2) $\left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = \underline{1.0995}$

AOF = Q $\left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = \underline{5152}$

Absolute Open Flow 5152	Mcf @ 15.025	Angle of Slope θ	Slope, n .75
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Remarks:			
Approved By Commission:	Conducted By:	Calculated By: Neil Tefteller	Checked By: P. J. Patterson MARATHON OIL Co.