

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 <u>10-29-77</u>	
Company <u>Marathon Oil Co.</u>				Connection			
Pool				Formation <u>Chacra</u>		Unit	
Completion Date		Total Depth <u>3954</u>		Plug Back TD <u>3916</u>		Elevation <u>6483 G.L.</u>	
Farm or Lease Name <u>Jicarilla Apache</u>				Well No. <u>19</u>			
Csg. Size <u>4.5</u>	Wt. <u>d</u>	Set At <u>3953</u>	Perforations: From To		Unit Sec. Twp. Rge.		
Tbg. Size <u>2.375</u>	Wt. <u>4.7</u>	Set At <u>3608</u>	Perforations: From <u>3788</u> To <u>3885</u>		<u>B 28 26 5</u>		
Type Well - Single - Bradenhead - G.G. or G.O. Multiple <u>Dual Gas</u>				Packer Set At <u>3600</u>		County <u>Rio Arriba</u>	
Producing Thru <u>Tubing</u>		Reservoir Temp. °F @	Mean Annual Temp. °F		Baro. Press. - P _a <u>12.0</u>		State <u>New Mexico</u>
L	H	Gg <u>.650</u>	% CO ₂	% N ₂	% H ₂ S	Prover <u>X</u>	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.	
SI	<u>7 days</u>						<u>995</u>		<u>Pkr</u>	
1.							<u>40</u>	<u>60</u>	<u>Pkr</u>	
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	<u>11.00</u>		<u>52</u>	<u>1.000</u>	<u>1,240</u>	<u>---</u>	<u>709</u>
2.							
3.							
4.							
5.							

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 <u>1007</u>	P _c ² <u>1014049</u>		
NO.	P _t ²	P _w	P _w ²
1		<u>52</u>	<u>2704</u>
2			
3			
4			
5			

(1) $\frac{P_c^2}{P_c^2 - P_w^2} = \underline{1.0027}$

AOF = Q $\left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = \underline{710}$

(2) $\left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = \underline{1.0020}$

Absolute Open Flow <u>710</u> Mcfd @ 15.025	Angle of Slope θ _____	Slope, n <u>.75</u>
Remarks: _____		
Approved By Commission:	Conducted By: <u>Archie Hughes</u>	Calculated By: <u>Neil Tefteller</u>
		Checked By: <u>M. E. O'Keefe</u> MARATHON OIL CO.