

NEW MEXICO OIL CONSERVATION COMMISSION
MULTIPOINT AND ONE POINT BACK PRESSURE TEST FOR GAS WELL

Form C-122
 Revised 5-1-65

Type Test ☒ Initial ☐ Annual ☐ Special					Test Date 5-19-81	
Company MESA PETROLEUM CO.			Connection EL PASO NATURAL GAS CO.			
Pool BLANCO MESAVERDE			Formation MV		Unit P	
Completion Date 4-28-81		Total Depth 7253.	Plug Back TD 7250.	Elevation 6370.	Farm or Lease Name FEDERAL	
Csg. Size 5.500	Wt. 15.5	d 4.950	Set At 7250.	Perforations: From 4920. To 5044.		
Tub. Size 1.990	Wt. 2.8	d 1.610	Set At 4870.	Perforations: From 0. To 0.		
Type Well - Single - Bradenhead - G.C. or G.O. Multiple FLOWING				Packer Set At 6486.	County SAN JUAN	
Producing Thru TUBING		Reservoir Temp. °F 180.0 4982.	Mean Annual Temp. °F 60.0	Baro. Press. - P _g 12.2	State NEW MEXICO	
L 4982.	H 4982.	G _g 0.673	% CO ₂ 0.	% N ₂ 0.	% H ₂ S 0.	
		Prover 0.	Meter Run 0.		Taps 0.	

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							1280.	66.			168.0
1.	1.61 X 0.750			100.	0.	68.	100.	68.	0.	0.	3.0
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 _{sp}	Rate of Flow Q, Mcfd
1	11.22	0.	112.2	0.9924	1.2190	1.0114	1541.
2.							
3.							
4.							
5.							

NO.	P _t	Temp. °R	T _f	Z	Gas Liquid Hydrocarbon	Mcf/bbl.
1	0.17	528.	1.38	0.978	0.673	0.673
2.						
3.						
4.						
5.						

NO.	P _t ²	P _w	P _w ²	P _t ² - P _w ²
1	13.	386.	149.	1517.
2.				
3.				
4.				
5.				

(1) $\frac{P_t^2}{P_t^2 - P_w^2} = 1.0094$

AOF = Q $\left[\frac{P_t^2}{P_t^2 - P_w^2} \right]^n = 1653.$

(2) $\left[\frac{P_t^2}{P_t^2 - P_w^2} \right]^n = 1.0729$

Absolute Open Flow	1653.	Mcf/d @ 15.025	Angle of Slope θ	53.1	Slope, n	0.750
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Remarks:

Approved By Commission:	Conducted By: J. L. Archer	Calculated By: Garrett-AOF Program	Checked By: <i>[Signature]</i>
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