

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 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.
Csg. Size 5.500		Wt. 15.5	d 4.950	Set At 7250.	Perforations: From 4920. To 5044.	
Thq. 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.° 4982.		Mean Annual Temp. °F 60.0		Baro. Press. - P _a 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				

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 F _t	Gravity Factor F _g	Super Compress. Factor, F _{pv}	Rate of Flow Q, Mcfd
1	11.22	0.	112.2	0.9924	1.2190	1.0114	1541.
2.							
3.							
4.							
5.							

NO.	P _r	Temp. °R	T _r	Z	Gas Liquid Hydrocarbon Ratio	Mcf/bbl.
1	0.17	528.	1.38	0.978	0.673	0.
2.						
3.						
4.						
5.						

A.P.I. Gravity of Liquid Hydrocarbons _____ Deg. Specific Gravity Separator Gas _____ Specific Gravity Flowing Fluid _____ Critical Pressure _____ P.S.I.A. Critical Temperature _____ R				
P _c 1290.7 P _c ² 1666.				
NO.	P _r ²	P _w	P _w ²	P _r ² - P _w ²
1	13.	386.	149.	1517.
2.				
3.				
4.				
5.				

(1) $\frac{P_c^2}{P_r^2 - P_w^2} = 1.0984$

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

(2) $\left[\frac{P_r^2}{P_r^2 - P_w^2} \right]^n = 1.0779$

Absolute Open Flow	1653. Mcfd @ 15.025	Angle of Slope @	52.1	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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