

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 5-15-81	
Company MESA PETROLEUM CO.			Connection EL PASO NATURAL GAS		
Pool BLANCO-PICTURED CLIFFS			Formation PC		Unit N
Completion Date 5-6-81		Total Depth 3460.		Plug Back TD 3458.	
Elevation 6498.		Farm or Lease Name SUTER			
Csg. Size 4.500	Wt. 10.5	d 4.052	Set At 3438.	Perforations: From 3193. To 3221.	
Well No. 6					
Tbg. Size 1.990	Wt. 2.8	d 1.610	Set At 3189.	Perforations: From 0. To 0.	
Unit 12-32N-11W					
Type Well - Single - Bradenhead - G.C. or G.O. Multiple FLOWING				Packer Set At 0.	
Producing Thru TUBING		Reservoir Temp. °F 118.0 3207.		Mean Annual Temp. °F 60.0	
Baro. Press. - P _a 12.2		State NEW MEXICO			
L 3207.	H 3207.	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							942.	43.			168.0
1.	1.75 X 0.750			120.	0.	66.	120.	66.	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 _{pv}	Rate of Flow Q, Mcfd
1	11.22	0.	132.2	0.9943	1.2190	1.0137	1823.
2.							
3.							
4.							
5.							

NO.	P _r	Temp. °R	T _r	Z	Gas Liquid Hydrocarbon Ratio	A.P.I. Gravity of Hydrocarbon	Specific Gravity Separator Gas	Specific Gravity Flowing Fluid	Critical Pressure	Critical Temperature
1	0.20	526.	1.38	0.973			0.673	0.673	669.	381.
2.										
3.										
4.										
5.										

P _c 957.1 P _c ² 916.				
NO.	P _r ²	P _w	P _w ²	P _c ² - P _w ²
1	17.	377.	142.	774.
2				
3				
4				
5				

(1) $\frac{P_c^2}{P_c^2 - P_w^2} = 1.1040$

AOF = Q $\left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 2069.$

(2) $\left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 1.1250$

Absolute Open Flow	2069 Mcfd @ 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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