

Type Test: ☒ Initial ☐ Annual ☐ Special					Test Date: 5-21-81				
Company: MESA PETROLEUM CO.				Connection: EL PASO NATURAL GAS CO.					
Pool: BLANCO PICTURED CLIFFS				Formation: PC				Unit: F	
Completion Date: 5-13-81		Total Depth: 3370.		Plug Back TD: 3328.		Elevation: 6882.		Farm or Lease Name: JOHNS FEDERAL	
Csg. Size: 4.500	Wt.: 10.5	d: 4.052	Set At: 3370.	Perforations: From 3257. To 3261.		Well No.: 5			
Trq. Size: 1.990	Wt.: 2.8	d: 1.610	Set At: 3255.	Perforations: From 3286. To 3292.		Unit Sec. Twp. Rge.: 18-32N-11W			
Type Well - Single - Bradenhead - G.G. or G.O. Multiple: FLOWING					Packer Set At: 0.		County: SAN JUAN		
Producing Thru: TUBING		Reservoir Temp. °F: 112.0 3274.		Mean Annual Temp. °F: 60.0		Baro. Press. - P _a : 12.2		State: NEW MEXICO	
L: 3274.	H: 3274.	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							1000.	50.			168.0
1.	1.61	X	0.750	90.	0.	65.	90.	65.	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 _L	Gravity Factor F _g	Super Compress. Factor, F _{pv}	Rate of Flow Q, Mcfd
1	11.22	0.	102.2	0.9752	1.2190	1.0107	1406.
2.							
3.							
4.							
5.							

NO.	P _r	Temp. °R	T _r	Z	Gas Liquid Hydrocarbon Ratio	A.P.I. Gravity of Liquid Hydrocarbons	Specific Gravity Separator Gas	Specific Gravity Flowing Fluid	Critical Pressure	Critical Temperature	Mcft/bbl.	Deq.
1	0.15	325.	1.38	0.9779			0.673	0.673	667.	381.		
2.												
3.												
4.												
5.												

NO.	P _r ²	P _w ²	P _w ²	P _c ² - P _w ²	(1) $\frac{P_c^2}{P_c^2 - P_w^2} =$	(2) $\left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n =$
1	10.	294.	87.	940.	1.0921	1.0683
2						
3						
4						
5						

AOF = Q $\left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 1502.$

Absolute Open Flow: 1502.	Mcfd @ 15.025	Angle of Slope @: 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:
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