

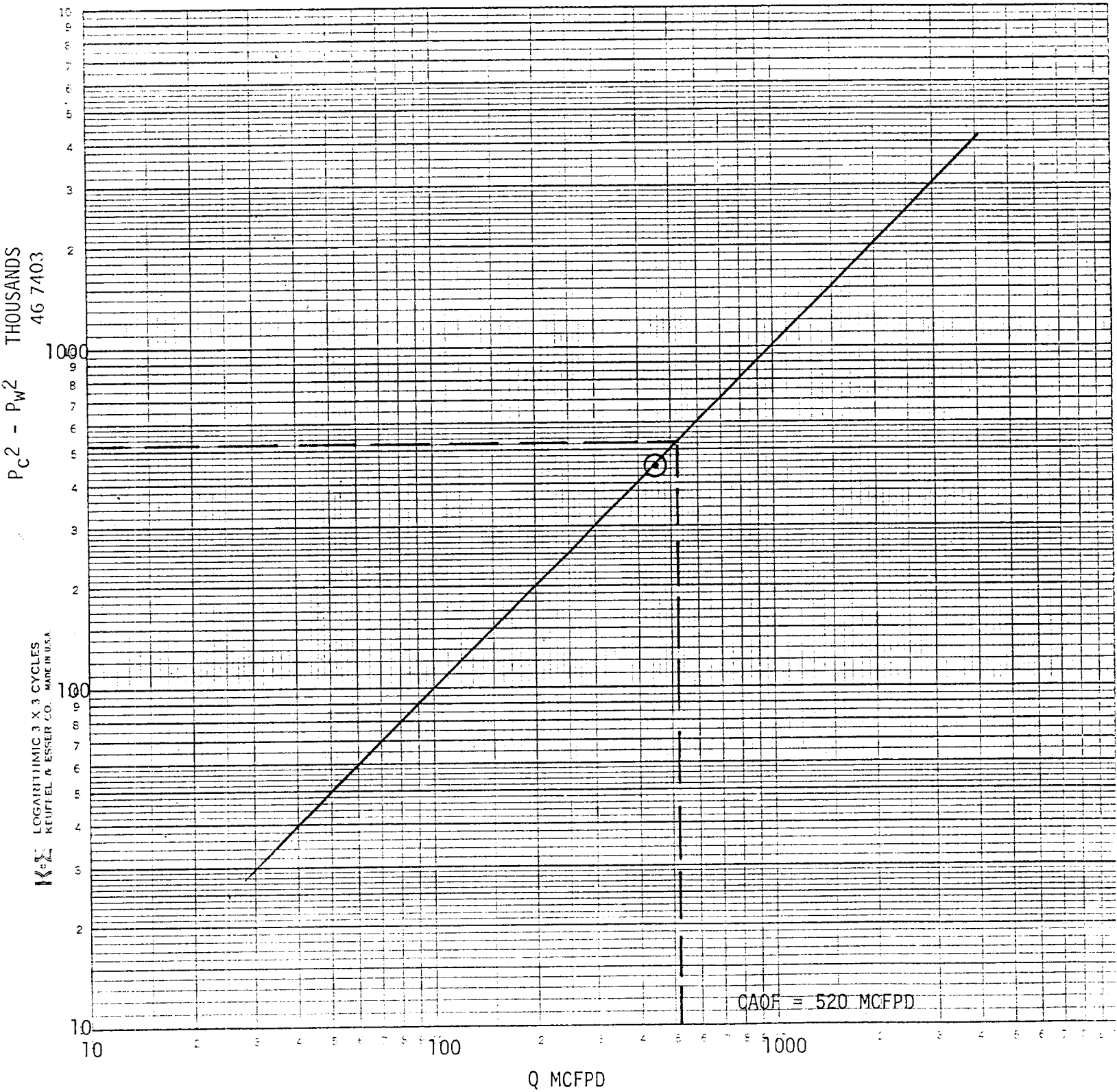
NEW MEXICO OIL CONSERVATION COMMISSION
MULTIPOINT AND ONE POINT BACK PRESSURE TEST FOR GAS WELL

Form C-122
Revised 9-1-65

RECEIVED

Type Test ☒ Initial ☐ Annual ☐ Special				Test Date 9-10-81		SEP 21 1981	
Company Mesa Petroleum Co. /				Connection UNCONNECTED			
Pool UNDESIGNATED ABO				Formation ABO		Unit O. C. D. ARTESIA, OFFICE	
Completion Date 9-10-81		Total Depth 3450'		Plug Back TD 3379'		Elevation 3913'	
Csg. Size 4 1/2"		Wt. 10.5		Set At 3445'		Perforations: From 2919' To 2938'	
Tbg. Size 2 3/4"		Wt. 4.7		Set At 2809'		Perforations: From OPEN-ENDED To	
Type Well - Single - Bradenhead - G.C. or G.O. Multiple SINGLE				Packer Set At NONE		County CHAVES	
Producing Thru TUBING		Reservoir Temp. °F 100° @ 3450'		Mean Annual Temp. °F 60		Baro. Press. - P _a 13.2	
L 2809		H 2809		G _g .65		% CO ₂ 1	
				% N ₂ 2		% H ₂ S	
						Prover 2" ORIFICE WELL TESTER	
						Meter Run Taps	
FLOW DATA				TUBING DATA		CASING DATA	
NO.	Prover Line Size	X Orifice Size	Press. p.s.i.g.	Diff. hw	Temp. °F	Press. p.s.i.g.	Temp. °F
1.	2" ORIFICE	1 1/4	4.5	-	80	250	84
2.	WELL TESTER						
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	479	2" ORIFICE WELL		.9813	.9608	-	452
2.		TESTER					
3.							
4.							
5.							
NO.	P _r	Temp. °R	T _r	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		
NO.	P _c	P _w	P _c ²	P _w ²	(1) $\frac{P_c^2}{P_c^2 - P_w^2} = 1.1519$		
1	723	263	523	69	(2) $\left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 1.1519$		
2					ACF = Q $\left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 520$		
3							
4							
5							
Absolute Open Flow 520				Mcf/d @ 15.025		Angle of Slope @ _____ Slope, n _____	
Remarks: UNABLE TO RUN FOUR FLOW RATES DUE TO LOW DELIVERY OF WELL. ASSUMED n = 1 AND BASED CALCULATIONS ON ONE POINT TEST.							
Approved By Commission:		Conducted By: JAMES CRAIG		Calculated By: <i>ELB</i> E. L. BUTTROSS, JR		Checked By:	

MESA PETROLEUM CO.
 ROUND TOP STATE NO. 3
 SEC 10, T7S, R23E
 CHAVES COUNTY, NEW MEXICO
 9-10-81



ASSUMED $n = 1$ AND $\theta = 45^\circ$