

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

Form C-122
Revised 9-1-65

RECEIVED

c/sf

Type Test ☒ Initial ☐ Annual ☐ Special				Test Date 9-27-81		OCT 13 1981	
Company Mesa Petroleum Co. ✓				Connection UNCONNECTED		O. C. D.	
Pool UNDESIGNATED ABO				Formation ABO		Unit ARTESIA, OFFICE	
Completion Date 9-27-81		Total Depth 4400'		Plug Back TD 4335'		Elevation 3950'	
Csg. Size 4 1/2"		Wt. 10.5#		Set At 4400		Perforations: From 3678' To 3865'	
Thg. Size 2 3/8"		Wt. 4.7#		Set At 3570'		Perforations: From OPEN ENDED To	
Type Well - Single - Bradenhead - G.G. or G.O. Multiple SINGLE				Packer Set At NONE		Farm or Lease Name DORIS FEDERAL	
Producing Thru TUBING		Reservoir Temp. °F 102 @ 4400'		Mean Annual Temp. °F 60		Baro. Press. - P _a 13.2	
L 3570		H 3570		G _g .65		% CO ₂ 1	
				% N ₂ 1		% H ₂ S	
Prover 2" ORIFICE WELL TESTER				Meter Run		Taps	

FLOW DATA							TUBING DATA		CASING DATA		Duration of Flow	
NO.	Prover Line Size	X	Orifice Size	Press. p.s.i.g.	Diff. hw	Temp. °F	Press. p.s.i.g.	Temp. °F	Press. p.s.i.g.	Temp. °F		
1.	2" ORIFICE 1"			2		86	90	84	255			72 HR SI
2.	TESTER											1 HR
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.	183	2" ORIFICE WELL		.9759	.9608		172
2.		TESTER					
3.							
4.							
5.							

NO.	P _r	Temp. °F	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

P _c 788	P _c ² 621	
NO.	F _L ²	P _w
1		268
2		71
3		550
4		
5		

(1) $\frac{P_c^2}{P_c^2 - P_w^2} = 1.1291$ (2) $\left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 1.1291$

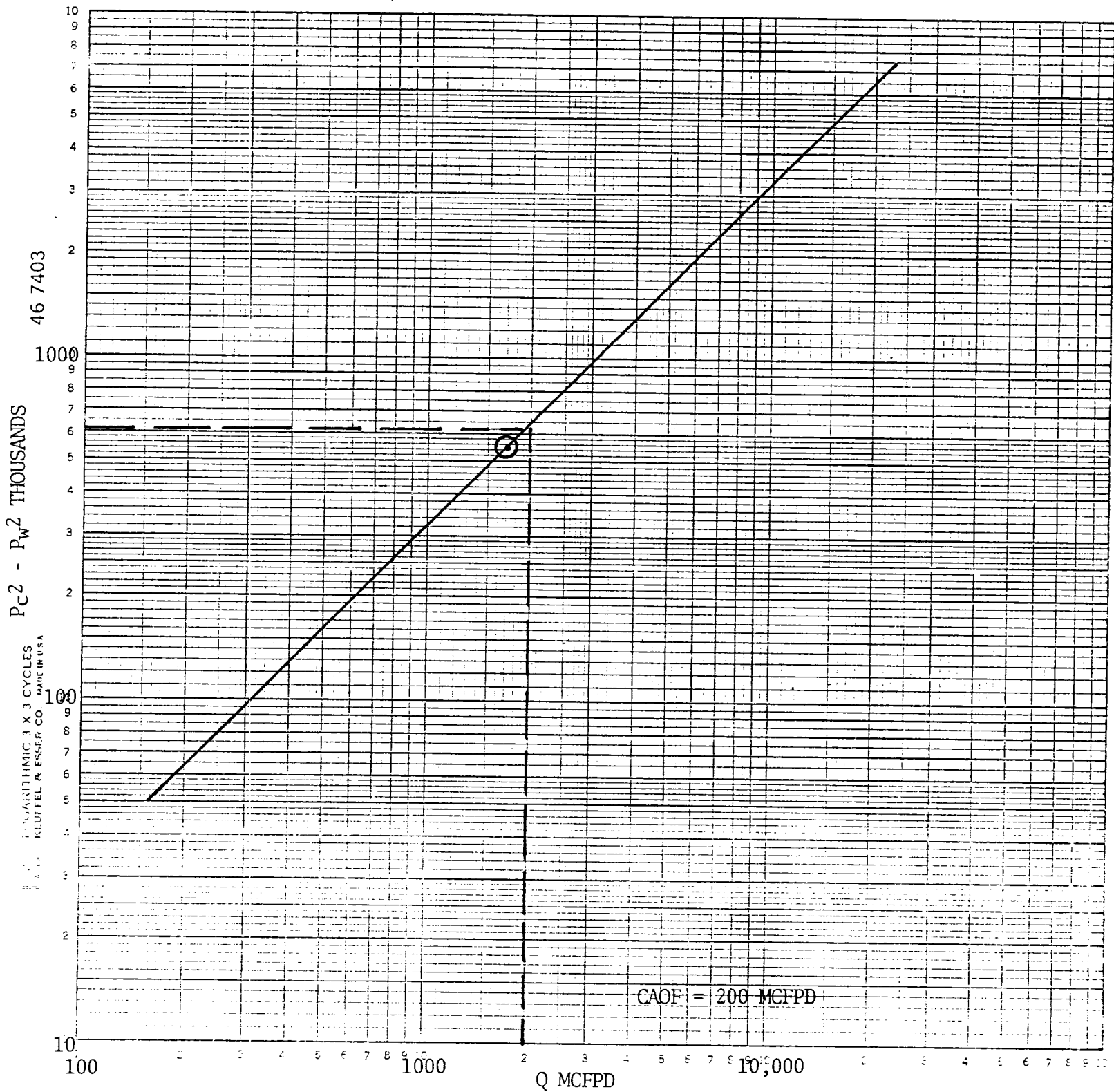
ACF = Q $\left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 200$

Absolute Open Flow	200	Mcf/d @ 15.025	Angle of Slope	45°	Slope, n	1
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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 CDATC	Calculated By: EUB F. L. RITTROSS JR	Checked By:
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MESA PETROLEUM CO.
 PARIS FEDERAL NO. 2
 SEC 11, T5S, R24E
 CHAVES CO., NM
 9-27-81



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