

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

Form C-122
Revised 9-1-65

RECEIVED

C/SF
C-122

Type Test ☒ Initial ☐ Annual ☐ Special				Test Date 3-8-82		APR 2 1982	
Company MESA PETROLEUM CO. /				Connection UNCONNECTED		O. C. D.	
Pool PECOS SLOPE ABO				Formation ABO		Unit ARTESIA, OFFICE	
Completion Date 3-8-82		Total Depth 4151'		Plug Back TD 4083'		Elevation 3881.7'	
Csg. Size 4 1/2"		Wt. 10.5#		Set At 4071'		Perforations: From 3639' To 3902'	
Tub. Size 2 3/8"		Wt. 4.7#		Set At 3529'		Perforations: From OPEN ENDED	
Type Well - Single - Production - G.G. or G.O. Multiple SINGLE				Packer Set At NONE		County CHAVES	
Producing Thru TUBING		Reservoir Temp. °F 101@ 4151'		Mean Annual Temp. °F 60		Baro. Press. - P _a 13.2	
L		H		Gg .65		% CO ₂ 1	
				% N ₂ 1		% H ₂ S	
				Prover 2" ORIFICE		Meter Run WELL TESTER	

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	
1.	2" ORIFICE	1 1/4	5.5			62	215	76	295		1 HR
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 Fg	Super Compress. Factor, Fpv	Rate of Flow Q, Mcfd
1.	535	2" ORIFICE WELL		.9981	.9608		513
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

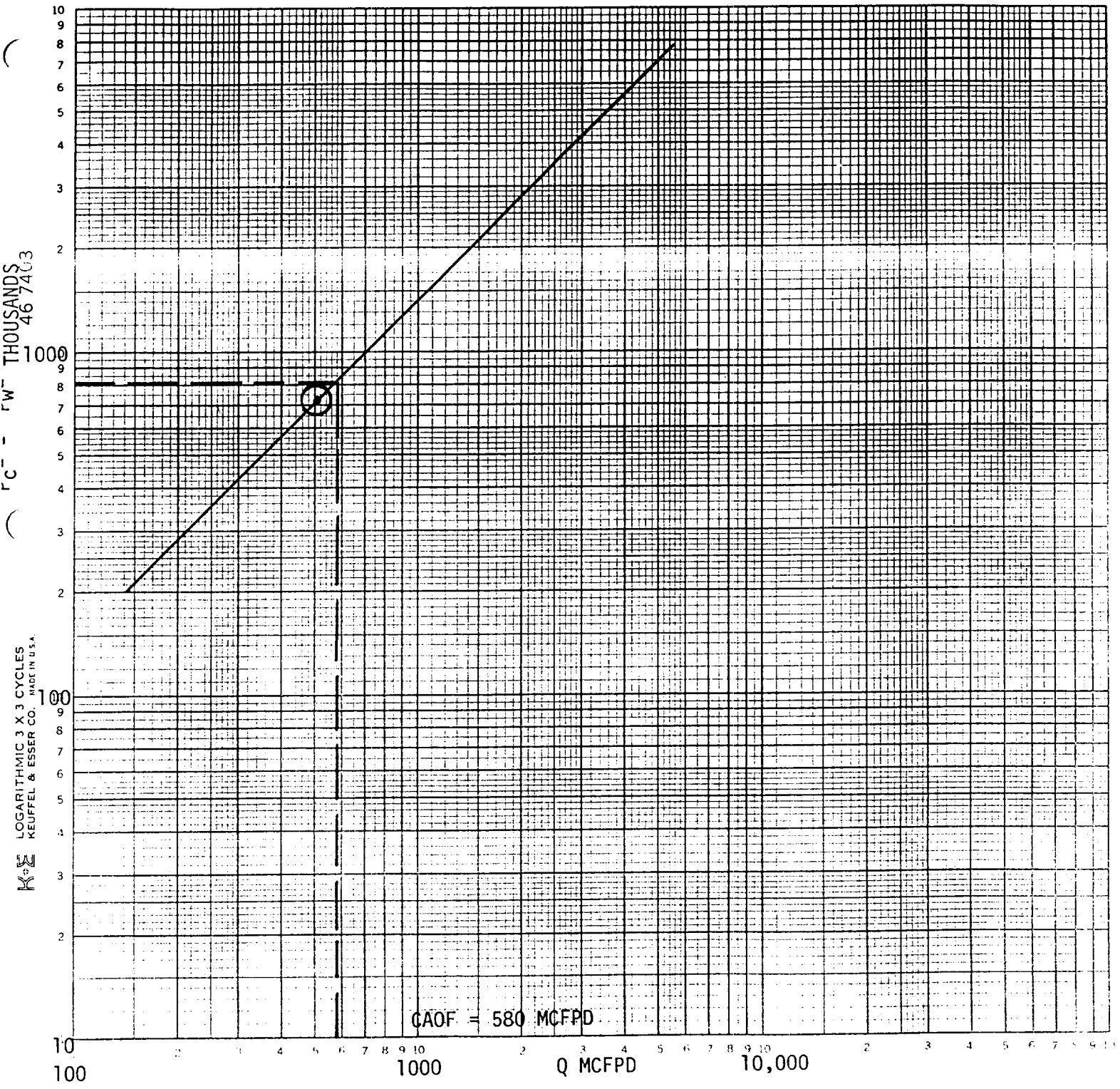
NO.	P _r ²	P _w ²	P _c ² - P _w ²	(1) $\frac{P_c^2}{P_c^2 - P_w^2} =$	(2) $\left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n =$
1.	903	815	720	1.1319	1.1319
2.					
3.					
4.					
5.					

Absolute Open Flow _____ 580 _____ Mcfd @ 15.025		Angle of Slope α _____ 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 CRAIG	Calculated By: E. L. BUTTROSS, JR.	Checked By:
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ESA PETROLEUM CO.
 COYOTE FEDERAL NO. 9
 CHAVES COUNTY, NM
 3-8-82



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