

N MEXICO OIL CONSERVATION COMM ON
MULTIPOINT AND ONE POINT BACK PRESSURE TES. FOR GAS WELL

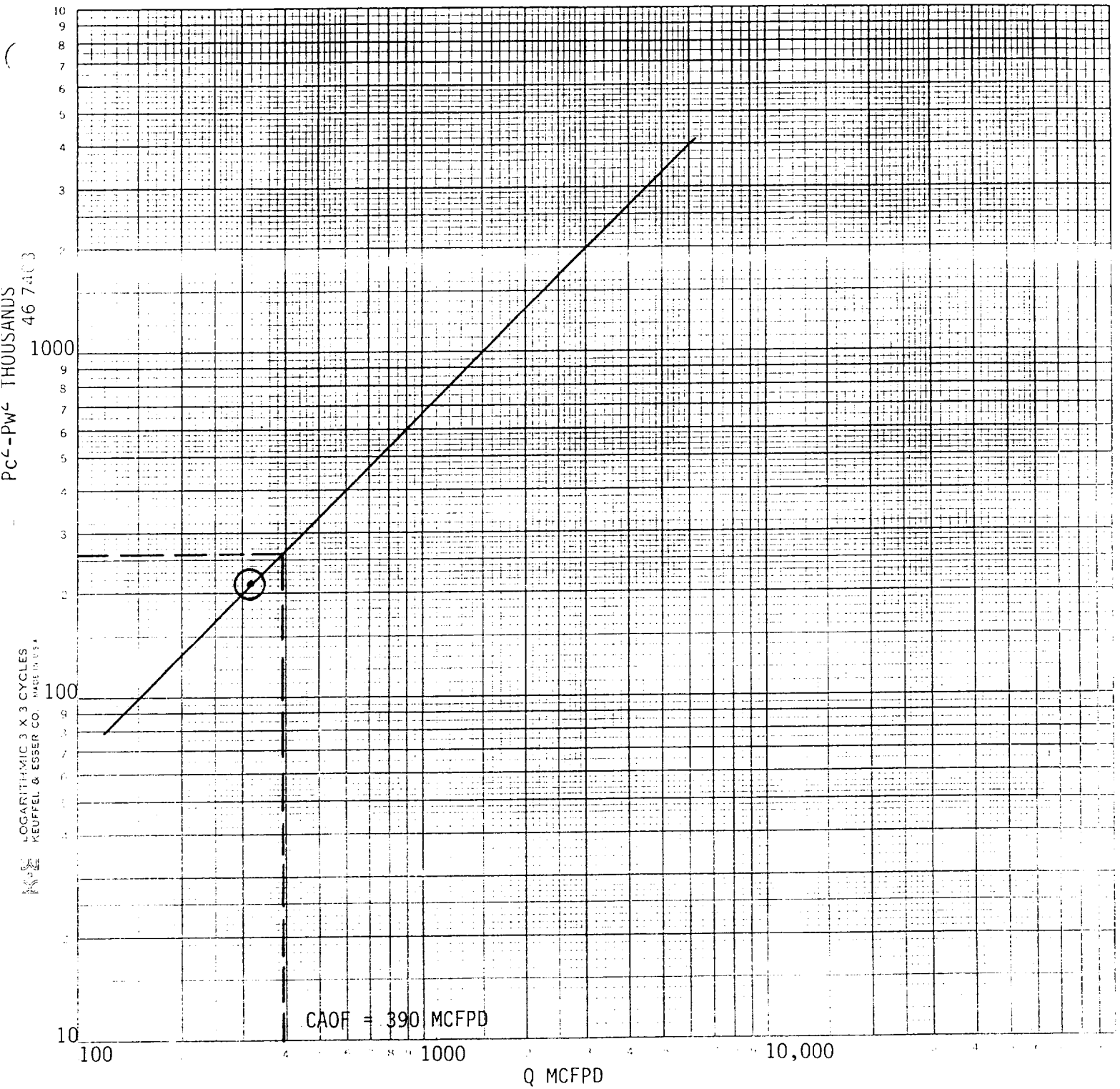
Form C-122
Revised 9-1-65

C/SF
C-122

RECEIVED

Type Test ☒ Initial ☐ Annual ☐ Special		Test Date 3-31-82		APR 13 1982	
Company MESA PETROLEUM CO. /		Connection UNCONNECTED			
Pool PECOS SLOPE ABO		Formation ABO		Unit O. C. D. ARTESIA, OFFICE	
Completion Date 3-31-82		Total Depth 4150'		Plug Back TD 3842'	
		Elevation 3809'		Form or Lease Name WESTERN COM	
Csg. Size 4 1/2"	Wt. 10.5#	d	Set At	Perforations: From 3410' To 3742'	
Tiq. Size 2 3/8"	Wt. 4.7#	d	Set At	Perforations: From OPEN-ENDED To	
Type Well - Single - Brodenhead - G.G. or G.O. Multiple SINGLE				Packer Set At NONE	
Producing Thru TUBING		Reservoir Temp. °F 101 @ 4150'		Mean Annual Temp. °F 60	
				Buro. Press. - P ₀ 13.2	
L	H	Gg .65	% CO ₂ 1	% N ₂ 1	% H ₂ S
				Prover 2" ORIFICE WELL TESTER	
				Meter Run	
				Peps	
FLOW DATA			TUBING DATA		CASING DATA
NO.	Prover Line Size	X	Orifice Size	Press. p.s.i.g.	Diff. h _w
				Temp. °F	
SI					
1.	2" ORIFICE		3/4"	16.5	64
2.	WELL				
3.	TESTER				
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}
1	331	2" ORIFICE WELL		.9962	.9608
2		TESTER			
3.					
4.					
5.					
NO.	P _c	Temp. °R	T _r	Z	Gas Liquid Hydrocarbon Ratio _____ Mol/Vol.
					A.P.I. Gravity of Liquid Hydrocarbons _____ Deg.
1.					Specific Gravity Separator Gas _____ X X X X X X X X X
2.					Specific Gravity Flowing Fluid _____ X X X X X
3.					Critical Pressure _____ P.S.I.A. _____ P.S.I.A.
4.					Critical Temperature _____ R _____ R
5.					
P _c 510		P _w 260			
NO.	P _c ²	P _w ²	P _w ² - P _c ²		
1		216	47		
2					
3					
4					
5					
				$(1) \frac{P_c^2}{P_c^2 - P_w^2} = 1.2207$ $(2) \left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 1.2207$	
				$ADP = Q \left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 390$	
Absolute Open Flow		390		Mold @ 15.025	
				Angle of Slope @ 45°	
				Slope, n 1	
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: <u>2B 4-8-82</u> E.L. BUTTROSS, JR.	
				Checked By:	

MESA PETROLEUM COMPANY
WESTERN COM NO. 1
CHAVES CO., NEW MEXICO
3-31-82



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