

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

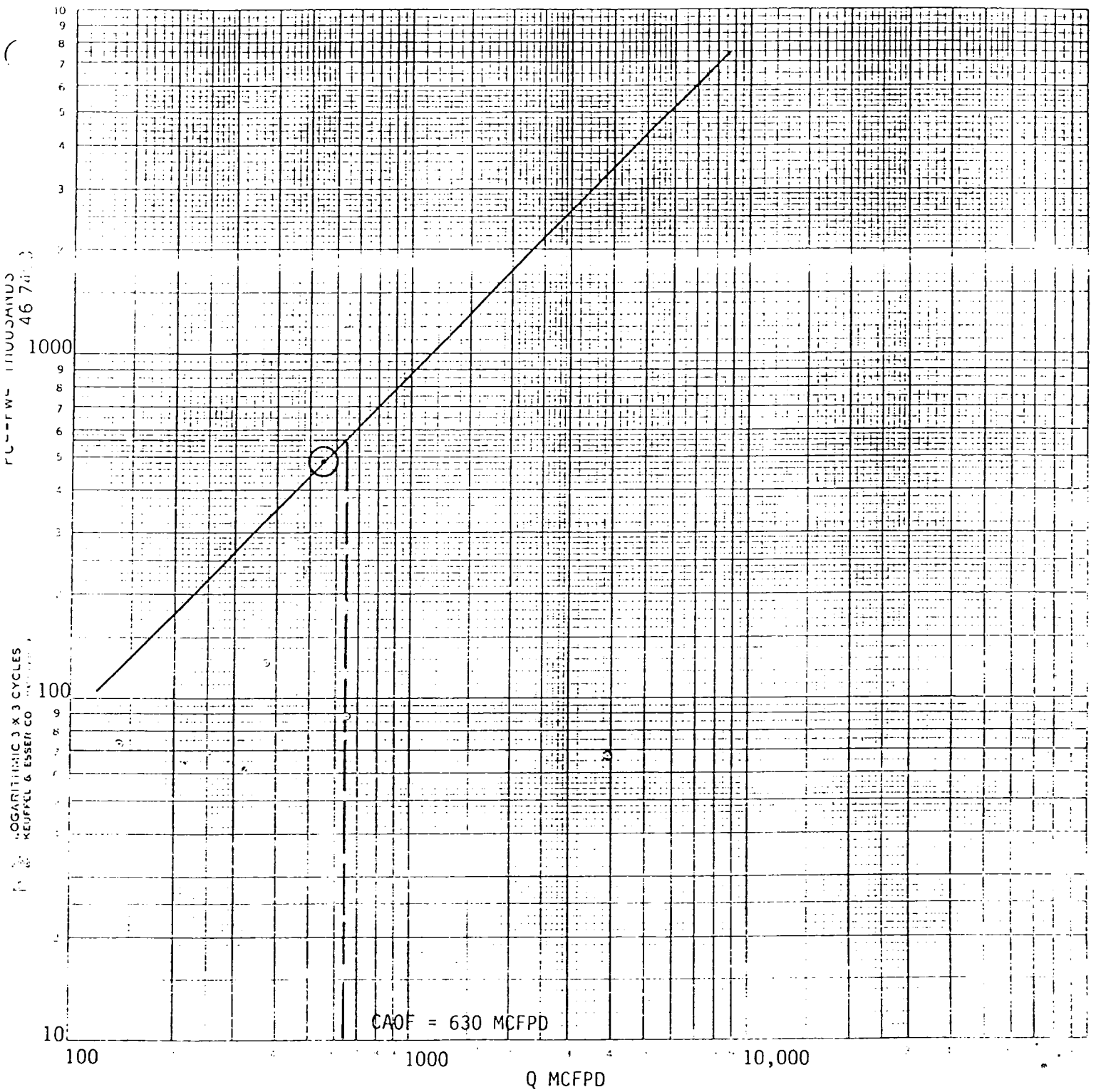
Form C-122
Revised 9-1-65

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C/SF C-122

Type Test ☒ Initial ☐ Annual ☐ Special				Test Date 3-31-82		APR 29 1982	
Company MESA PETROLEUM CO. /				Connection UNCONNECTED		O. C. D.	
Pool UNDESIGNATED ABO				Formation ABO		District ARTESIA, OFFICE	
Completion Date 3-31-82		Total Depth 4301'		Plug Back To 4210'		Elevation 3763'	
Csg. Size 4 1/2"		Set At 4281'		Perforations From 3762' To 4108'		Well No. 8	
Tub. Size 2 3/8"		Set At 3655'		Perforations From OPEN-ENDED To		Unit Sec. Twp. Rge. 0 15 5S 25E	
Type Well - Single - Prodenhead - G.G. or G.O. Multiple SINGLE				Packer Set At NONE		County CHAVES	
Producing Thru TUBING		Reservoir Temp. °F 102 @ 4301'		Mean Annual Temp. °F 60		State NEW MEXICO	
L		H		Cg		Prover	
				.65		2" ORIFICE WELL TESTER	
FLOW DATA				TUBING DATA		CASING DATA	
NO.	Prover Line Size	X	Orifice Size	Press. p.s.i.g.	Diff. h _w	Temp. °F	Duration of Flow
1.	2" ORIFICE			15		68	72 hr SI
2.	WELL						1 hr
3.	TESTER						
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, Mscf
1.	568	2" ORIFICE WELL		.9924	.9608		542
2.		TESTER					
3.							
4.							
5.							
NO.	P _c	Temp. °R	T _c	Z	Gas Liquid Hydrocarbon Ratio _____ Mscf/scf		
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	753	P _c ²	567				
NO.	P _c ²	P _w ²	P _w ² - P _c ²	(1) $\frac{P_c^2}{P_c^2 - P_w^2} = 1.1691$			
1.		286	82	(2) $\left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 1.1691$			
2.							
3.				AOF = 0 $\left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 630$			
4.							
5.							
Absolute Open Flow 630				Mscf @ 15.025		Angle of Slope α 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 Conventions:		Conducted By: JAMES CRAIG		Calculated By: <u>EUG 4-8-82</u> E.L. BUTTROSS, JR.		Checked By:	

Posted To
5-1-82
comp



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