

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

56-1111-1
Form C-122
Revised 9-1-80

RECEIVED

JUN 25 1982

Type Test ☒ Initial ☐ Annual ☐ Special				Test Date 6-4-82		JUN 25 1982	
Company MESA PETROLEUM CO. ✓				Connection UNCONNECTED		O. C. D. ARTESIA, OFFICE	
Pool PECOS SLOPE ABO				Formation ABO		Unit	
Completion Date 6-4-82		Total Depth 4450'		Plug Back TD 4062'		Elevation 3589'	
Csg. Size 4 1/2"		Set At 4106'		Perforations: From 3680' To 3847'		Farm or Lease Name PETE COM	
Tub. Size 2 3/8"		Set At 3580'		Perforations: From OPEN ENDED		Well No. 1	
Type Well - Single - Prdenhead - G.G. or G.O. Multiple SINGLE				Packer Set At NONE		Unit Sec. Twp. Rge. E 17 7S 26E	
Producing Thru TUBING		Reservoir Temp. °F 94° @ 4450'		Mean Annual Temp. °F 60		Baro. Press. - P _a 13.2	
L		H		G _g .65		Prover 2" ORIFICE WELL TESTER	
				% CO ₂ 1		% N ₂ 1	
				% H ₂ S		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. h _w	Temp. °F	Press. p.s.i.g.	Temp. °F	Press. p.s.i.g.	Temp. °F	
SI							920		918		52 HRS SI
1.	2" ORIFICE	1 1/4"		14		60	795	74	812		1 HR
2.	WELL	1 1/4"		25		70	560	77	645		1 HR
3.	TESTER	1 1/4"		27		70	395	78	580		1 HR
4.		1 1/4"		28		74	315	80	395		1 HR
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}	Rate of Flow Q, Mcfd
1	924	2" ORIFICE		1.000	.9608		888
2	1422	WELL		.9905	.9608		1353
3	1508	TESTER		.9905	.9608		1435
4	1538			.9868	.9608		1458
5							

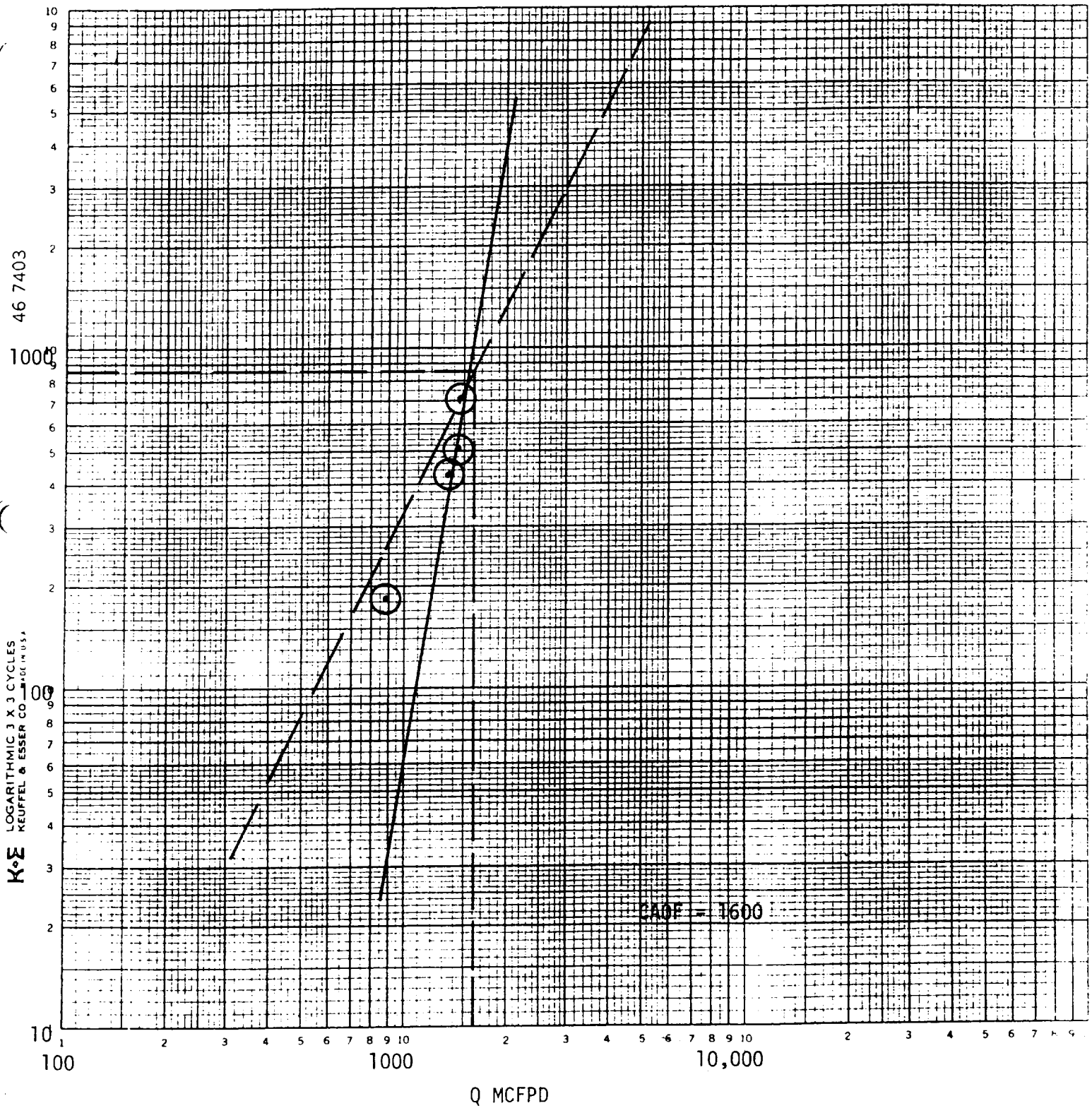
NO.	P _r	Temp. °R	T _r	Z	Gas Liquid Hydrocarbon Ratio _____ Mcf/bbl.
1.					A.P.I. Gravity of Liquid Hydrocarbons _____ Deg.
2.					Specific Gravity Separator Gas _____ X X X X X X X X
3.					Specific Gravity Flowing Fluid _____ X X X X X
4.					Critical Pressure _____ P.S.I.A. _____ P.S.I.A.
5.					Critical Temperature _____ R _____ R

NO.	P _r ²	P _w ²	P _w ²	P _r ² - P _w ²	(1) $\frac{P_r^2}{P_r^2 - P_w^2} = 1.2368$	(2) $\left[\frac{P_r^2}{P_r^2 - P_w^2} \right]^n = 1.1121$
1		825	681	186		
2		658	433	434		
3		603	364	503		
4		408	166	701		
5						

Absolute Open Flow 1,600 Mcfd @ 15.025				Angle of Slope θ 63.5°		Slope, n .5	
Plot of P _r ² - P _w ² vs Q yielded a straight line with a θ greater than 63.5°. Drew 63.5° line through highest point.							
Remarks:							

Approved By Commission:	Conducted By: JAMES CRAIG	Calculated By: E.L. BUTTROSS, JR	Checked By:
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PETE COM NO. 1
CHAVES COUNTY, NM
6-4-82



ASSUMED $N = .5$ AND $\theta = 63.5^\circ$