

MULTIPOINT AND ONE POINT BACK PRESSURE TEST FOR GAS WELL

Form C-122
Revised 9-1-65

SEP 29 1982

clsf file

RECEIVED

Type Test ☒ Initial ☐ Annual ☐ C. D. ☐ Special					Test Date 6-29-82		9 1982	
Company MESA PETROLEUM CO.					Office ARTESIA, OFFICE		UNCONNECTED	
Pool PECOS SLOPE ABO					Formation ABO		Gulf	
Completion Date 6-29-82		Total Depth 3224'		Plug Back TD 2962'		Elevation 3979'		Farm or Lease Name CHINA FEDERAL
Csg. Size 4 1/2"	Wt. 10.5#	d	Set At 3000'	Perforations: From 2849' To 2883'		Well No. 6		
Tiq. Size 2 3/8"	Wt. 4.7#	d	Set At 2761'	Perforations: From OPEN ENDED		Unit Sec. Twp. Rge. J 17 7S 23E		
Type Well - Single - Prodenhead - G.G. or G.O. Multiple SINGLE					Packer Set At NONE		County CHAVES	
Producing Thru TUBING		Reservoir Temp. °F 95° @ 3224'		Mean Annual Temp. °F 60		Baro. Press. - P ₀ 13.2		State NEW MEXICO
L	H	Gg .65	% CO ₂ 1	% N ₂ 1	% H ₂ S	Provor 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. h _w	Temp. °F	Press. p.s.i.g.	Temp. °F	Press. p.s.i.g.		Temp. °F
51							825		825		72 HRS \$1
1.	2" ORIFICE	1/2"		10		93	30	95	95		1 HR
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 Fg	Super. Compress. Factor, Fpv	Rate of Flow Q, Mhd
1	108	2" ORIFICE		.9697	.9608		101
2.		WELL TESTER					
3.							
4.							
5.							

NO.	P _t	Temp. °R	T _r	Z	Gas Liquid Hydrocarbon Ratio _____ Mcf/bbl.
1.					A.P.L. 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

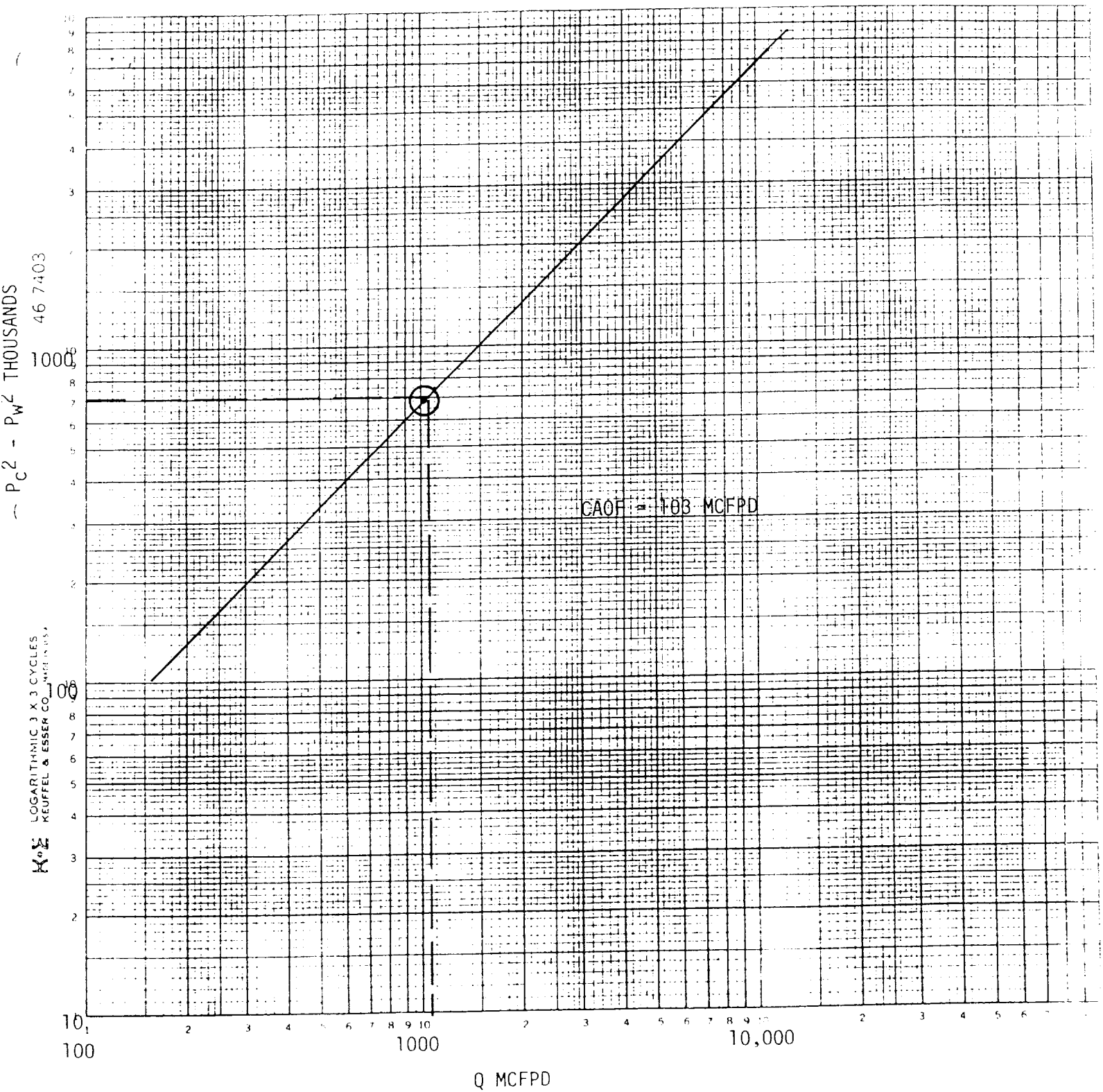
P _c 838 P _c ² 702		(1) $\frac{P_c^2}{P_c^2 - P_w^2} = 1.0174$		(2) $\left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 1.0174$	
NO.	P _t ²	P _w	P _w ²	P _c ² - P _w ²	
1		108	12	690	
2					
3					
4					
5					

Absolute Open Flow 103 _____ Mcf @ 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 CRAIG	Calculated By: <i>82 7-15-82</i> E.L. BUTTROSS, JR	Checked By:
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*Posted ID-2
10-1-82
Comp & BK*



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