

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

SK-12
Form C-122
Revised 9-1-75

RECEIVED

Type Test ☒ Initial ☐ Annual ☐ Special						Test Date 6-6-82		JUN 25 1982	
Company MESA PETROLEUM CO. ✓				Connection UNCONNECTED				O. C. D.	
Pool UNDESIGNATED ABO				Formation ABO				Unit ARTESIA, OFFICE	
Completion Date 6-6-82		Total Depth 3350'		Plug Back TD 3050'		Elevation 3942.5'		Farm or Lease Name ROUND TOP STATE	
Csg. Size 4 1/2"	Wt. 10.5#	d	Set At 3100'	Perforations: From 2955' To 2964'		Well No. 7			
Tiq. Size 2 3/8"	Wt. 4.7#	d	Set At 2954'	Perforations: From OPEN ENDED		Unit Sec. Twp. Rge. G 10 7S 23R			
Type Well - Single - Prodenhead - G.G. or G.O. Multiple SINGLE				Packer Set At NONE		County CHAVES			
Producing Thru TUBING		Reservoir Temp. °F 94° @ 3350'		Mean Annual Temp. °F 60		Baro. Press. - P _a 13.2		State NEW MEXICO	
L	H	Gg .65	% CO ₂ 1	% N ₂ 1	% H ₂ S	Prover 2" ORIFICE	Meter Run WELL TESTER	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
1.	2" ORIFICE	1 1/4"		11	90		235	96	300		72 HRS \$1
2.	WELL TESTER										1 HR
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, Mc/d
1.	797	2" ORIFICE	.9723	.9608			745
2.		WELL TESTER					
3.							
4.							
5.							

NO.	P _f	Temp. °R	T _f	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

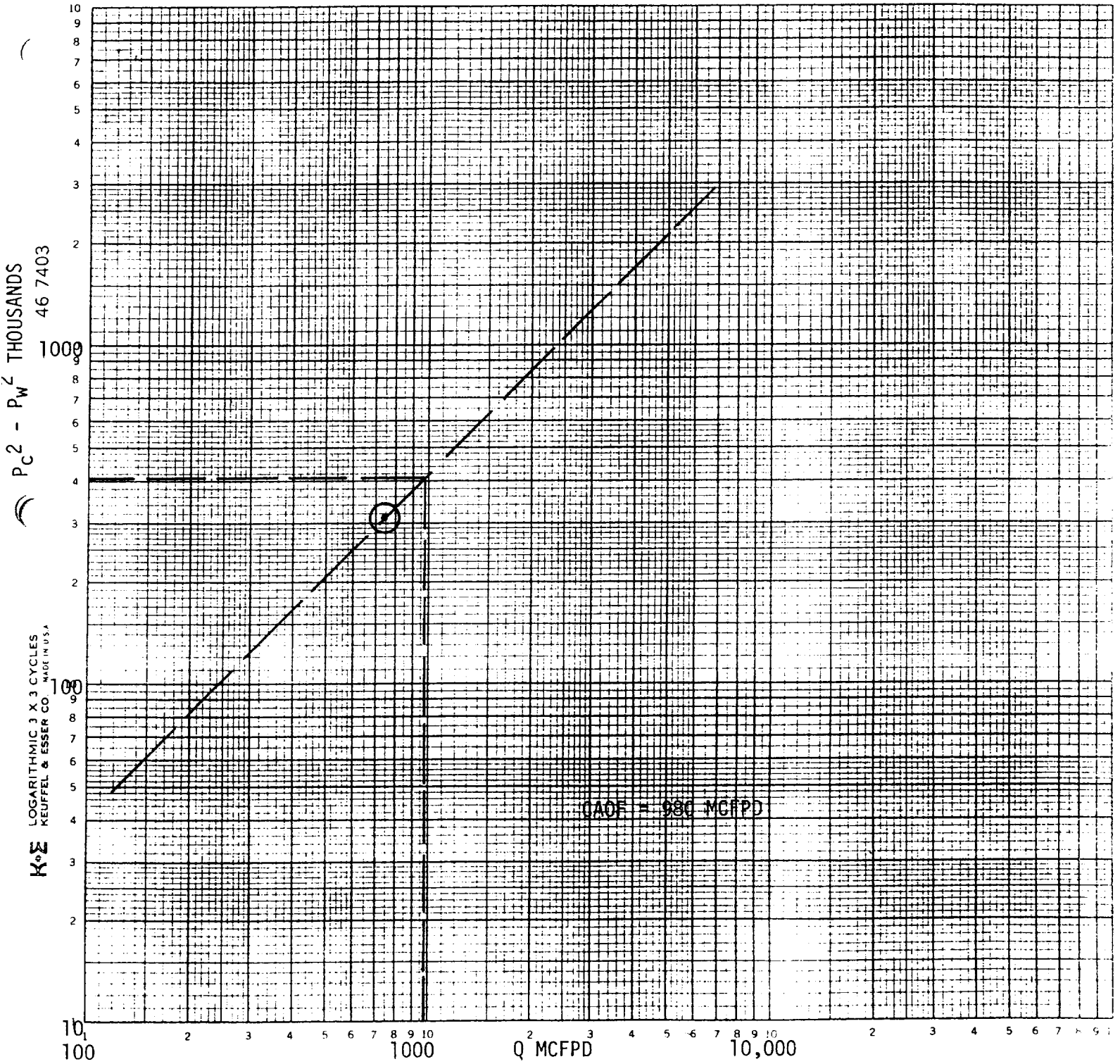
P _c 643	P _c ² 413	(1) $\frac{P_c^2}{P_c^2 - P_w^2} = 1.3111$	(2) $\left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 1.3111$
NO.	P _f ²	P _w	P _w ²
1.		313	98
2.			
3.			
4.			
5.			

Absolute Open Flow 980 Mc/d @ 15.025		Angle of Slope θ 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 BUTTROSS, JR 6-23-82	Checked By:
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ROUND TOP STATE NO. 7
CHAVES COUNTY, NM
6-6-82



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