

SEP 29 1982

Type Test ☒ Initial ☐ Annual ☐ O. C. ☐ Special		Test Date 8-9--82	
Company MESA PETROLEUM CO.		Connection ARTESIA, OFFICE	
Pool DEGOS SLOPE ABO		Formation ABO	
Completion Date 8-9-82		Total Depth 3215'	Plug Back TD 3014'
		Elevation 4028'	Farm or Lease Name DEBBIE FEDERAL
Csq. Size 4 1/2"	Wt. 10.5#	Set At 3060'	Perforations: From 2801' To 2947'
Tub. Size 2 3/8"	Wt. 4.7#	Set At 2920'	Perforations: From OPEN ENDED
Type Well - Single - Bradenhead - G.G. or G.O. Multiple SINGLE			Packer Set At NONE
Producing Thru TUBING			County CHAVES
Reservoir Temp. °F 99° @ 3200'		Mean Annual Temp. °F 60	Baro. Press. - P _g 13.2
State NEW MEXICO			
L	H	G _g	% CO ₂
		.65	1
		% N ₂	1
		% H ₂ S	
Prover 2" CRITICAL FLOW PROVER			
FLOW DATA			
NO.	Prover Line Size	X	Orifice Size
1.	2" x .5"		
2.			
3.			
4.			
5.			
TUBING DATA			
NO.	Press. p.s.i.g.	Temp. °F	Duration of Flow
1.	840	80	72 HRS
2.	185	88	1 HR
3.			
4.			
5.			
CASING DATA			
NO.	Press. p.s.i.g.	Temp. °F	Duration of Flow
1.	840	80	72 HRS
2.	200	88	1 HR
3.			
4.			
5.			
RATE OF FLOW CALCULATIONS			
NO.	Coefficient (24 Hour)	$\sqrt{h_w P_m}$	Pressure P _m
1.	4.279	FLOW PROVER	111
2.			
3.			
4.			
5.			
NO.	P _t	Temp. °R	T _r
1.			
2.			
3.			
4.			
5.			
Gas Liquid Hydrocarbon Ratio _____ Mcf/bbl.			
A.P.I. Gravity of Liquid Hydrocarbons _____ Deg.			
Specific Gravity Separator Gas _____ X X X X X X X X			
Specific Gravity Flowing Fluid _____ X X X X X			
Critical Pressure _____ P.S.I.A. _____ P.S.I.A.			
Critical Temperature _____ R _____ R			
P _c 853 P _c ² 728			
NO.	P _t ⁴	P _w	P _w ²
1.		213	45
2.			
3.			
4.			
5.			
(1) $\frac{P_c^2}{P_c^2 - P_w^2} = 1.0659$			
(2) $\left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 1.0659$			
ADP = 0 $\left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 600$			
Absolute Open Flow 600 Mcf @ 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: E.L. BUTTROSS, JR
		Checked By:	

Posted ID-2
10-1-82
Camp & BK

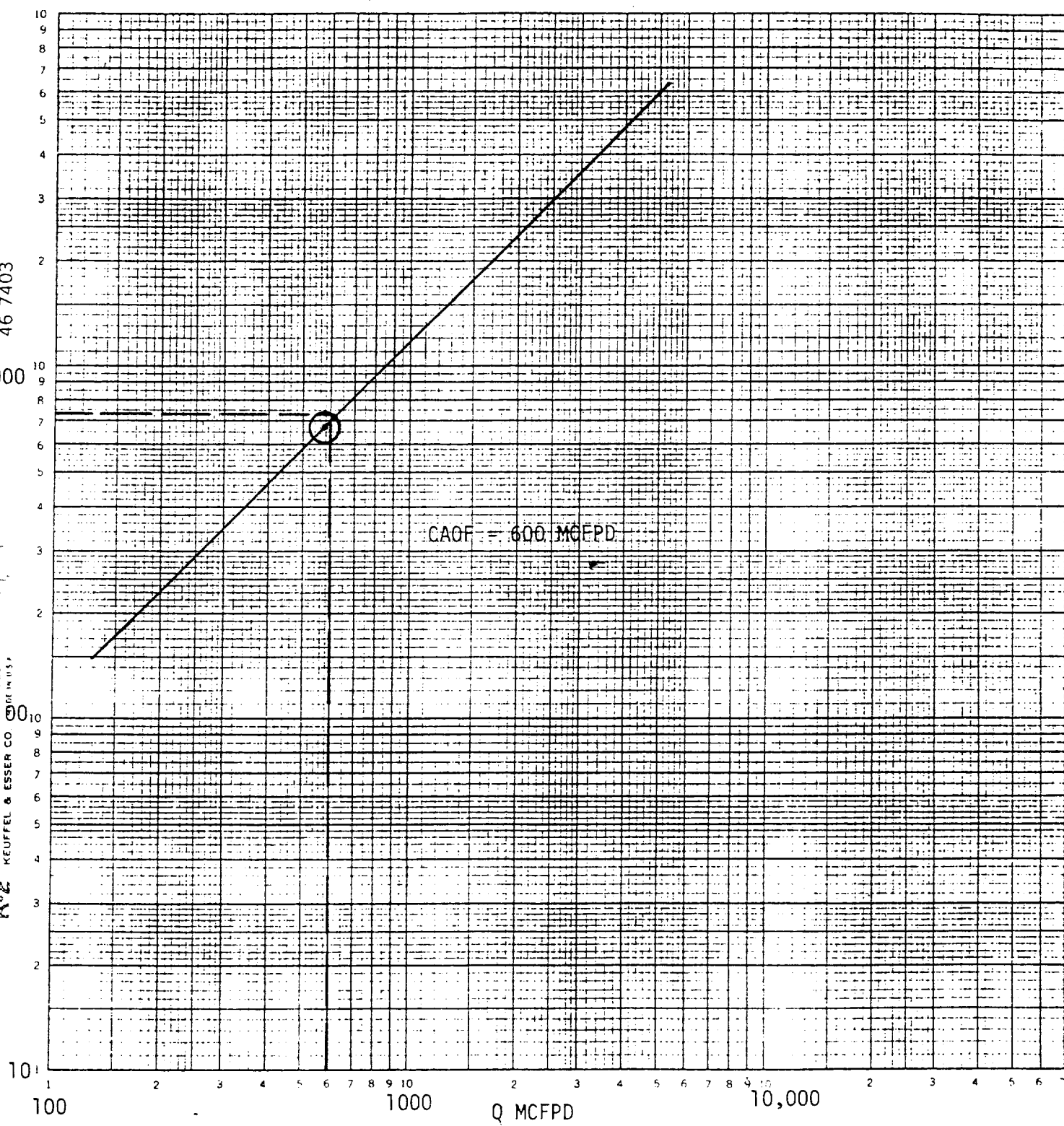
MESA PETROLEUM CO.
DEBBIE FEDERAL NO. 1
CHAVES CO., NM
8-9-82

$P_c^2 - P_w^2$ THOUSANDS
46.7403

1000

LOGARITHMIC 3 X 3 CYCLES
KEUFFEL & ESSER CO. MADE IN U.S.A.

100



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