

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

Form C-122
Revised 9-1-65

C/SF
C-122
4565

Type Test ☒ Initial ☐ Annual ☐ Special				Test Date 3-5-82	
Company MESA PETROLEUM CO./				Connection UNCONNECTED	
Pool PECOS SLOPE ABO				Formation ABO	
Completion Date 3-5-82		Total Depth 4426'		Plug Back TD 4176'	
				Elevation 3728'	
Csg. Size 4 1/2"		Wt. 10.5#		Set At 4226'	
Perforations: From 3722' To 4022'				Well No. 2	
Tub. Size 2 3/8"		Wt. 4.7#		Set At 3620'	
Perforations: From OPEN ENDED				Unit B	
				Sec. 12	
				Twp. 7S	
				Rge. 25E	
Type Well - Single - Prodenhead - G.G. or G.O. Multiple SINGLE				Packer Set At NONE	
Producing Thru TUBING				County CHAVES	
Reservoir Temp. °F 102@ 4426		Mean Annual Temp. °F 60		State NEW MEXICO	
Baro. Press. - P _a 13.2					
L	H	G _g .65	% CO ₂ 1	% N ₂ 1	% H ₂ S
Prover CHOKE		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							965		970		72 HR SI
1.	CHOKE		14/64	930		49	930	49	935		1 HR
2.	COEFF.		18/64	875		50	875	50	880		1 HR
3.			22/64	805		50	805	50	815		1 HR
4.			25/64	745		52	745	52	755		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 Fg	Super Compress. Factor, Fpv	Rate of Flow Q, Mcfd
1	.7924	CHOKE	943	1.011	1.240		937
2.	1.3310	CHOKE	888	1.010	1.240		1480
3.	1.9990	CHOKE	818	1.010	1.240		2048
4.	2.587	CHOKE	758	1.008	1.240		2451
5.							

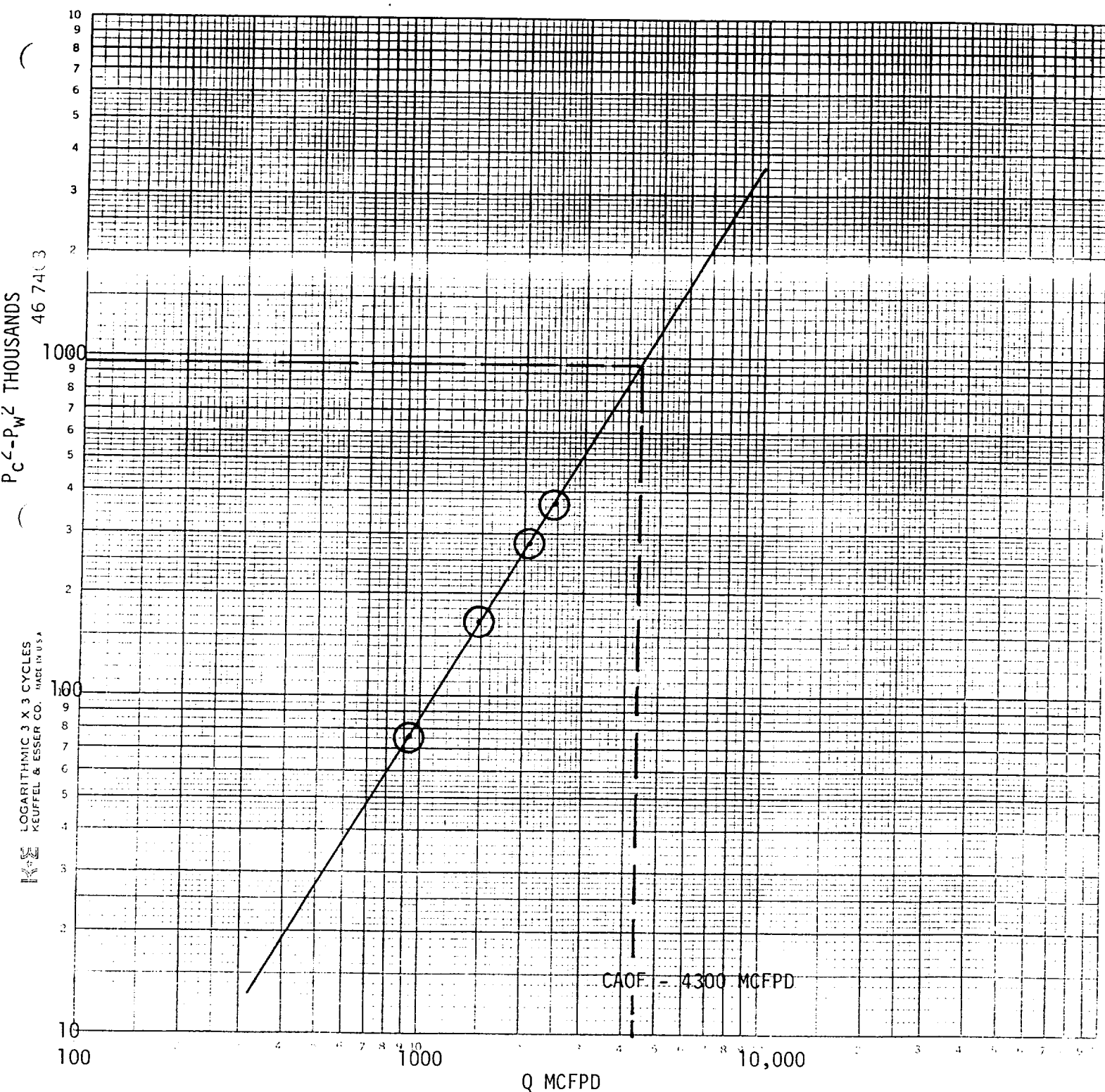
NO.	P _t	Temp. °R	T _r	Z	Gas Liquid Hydrocarbon Ratio _____ Mcf/bbl.
1.					A.P.I. Gravity of Liquid Hydrocarbons _____ Deg.
2.					Specific Gravity Separator Gas _____ X X X X X X X X
3.					Specific Gravity Flowing Fluid _____ X X X X X
4.					Critical Pressure _____ P.S.I.A. _____ P.S.I.A.
5.				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

P _c 983	P _c ² 966	(1) $\frac{P_c^2}{P_c^2 - P_w^2} = 3.45$	(2) $\left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 2.1023$
NO	P _t ²	P _w	P _w ²
1		948	890
2		893	797
3		828	686
4		768	590
5			

Absolute Open Flow 4300 Mcfd @ 15,025		Angle of Slope 59°	Slope, n 6
Remarks:			
Approved By Commission:		Conducted By: JAMES CRAIG	Calculated By: E. L. BUTTROSS, JR.
		Checked By:	

*Posted ID-2
+ Comp. SI
3-19-82*

MESA PETROLEUM CO.
 BLANCO NO. 2
 CHAVES CO., NEW MEXICO
 3-5-82



$$N = 1/\text{SLOPE} = \frac{\text{LOG } Q_2 - \text{LOG } Q_1}{\text{CYCLE}} = \frac{\text{LOG } 4400 - \text{LOG } 1100}{\text{CYCLE}} = 36.4 - 3.04 = .6$$