

MULTIPOINT AND ONE POINT BACK PRESSURE TEST FOR GAS WELL

Revised 9-1-65

c15F
File

Type Test ☒ Initial ☐ Annual ☐ Special		Test Date 6-28-82	
Company MESA PETROLEUM CO. ✓		Connection UNCONNECTED	
Pool PECOS SLOPE ABO		Formation ABO	
Completion Date 6-28-82		Total Depth 3206'	Plug Back TD 3142'
Csg. Size 4 1/2"		Set At 3200'	Elevation 4102'
Perforations: From 2817' To 2934'		Well No. 7	
Perforations: From OPEN ENDED		Unit Sec. Twp. Rge. K 18 7S 23E	
Type Well - Single - Prodenhead - G.G. or G.O. Multiple SINGLE		Packer Set At NONE	
Producing Thru TUBING		State NEW MEXICO	
Reservoir Temp. °F 95° @ 3206'		Mean Annual Temp. °F 60	
Baro. Press. - P _a 13.2		County CHAVES	
L	H	G _g	% CO ₂
		.65	1
			1
			% H ₂ S
			2" ORIFICE WELL TESTER

FLOW DATA

TUBING DATA

CASING DATA

Duration

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	Duration of Flow
1.	2" ORIFICE	1 1/4"		9.5		77	375	93	397		72 HRS \$1
2.	WELL										1 HR
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 F _g	Super. Compres. Factor, F _{pv}	Rate of Flow Q, Mcfd
1.	730	2" ORIFICE		.9840	.9608		690
2.		WELL TESTER					
3.							
4.							
5.							

NO.	P ₁	Temp. °R	T ₁	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	878	P_c^2	771		
NO	P_1^2	P_w	P_w^2	$P_c^2 - P_w^2$	
1		410	168	603	
2					
3					
4					
5					

$$(1) \frac{P_c^2}{P_c^2 - P_w^2} = \frac{1.2786}{1.2786}$$

$$\text{AND } Q \left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = \frac{900}{900}$$

$$(2) \left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = \frac{1.2786}{1.2786}$$

Post ID-2
 11-26-22
 Jangra B.H.

$$AQ = Q \left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 900$$

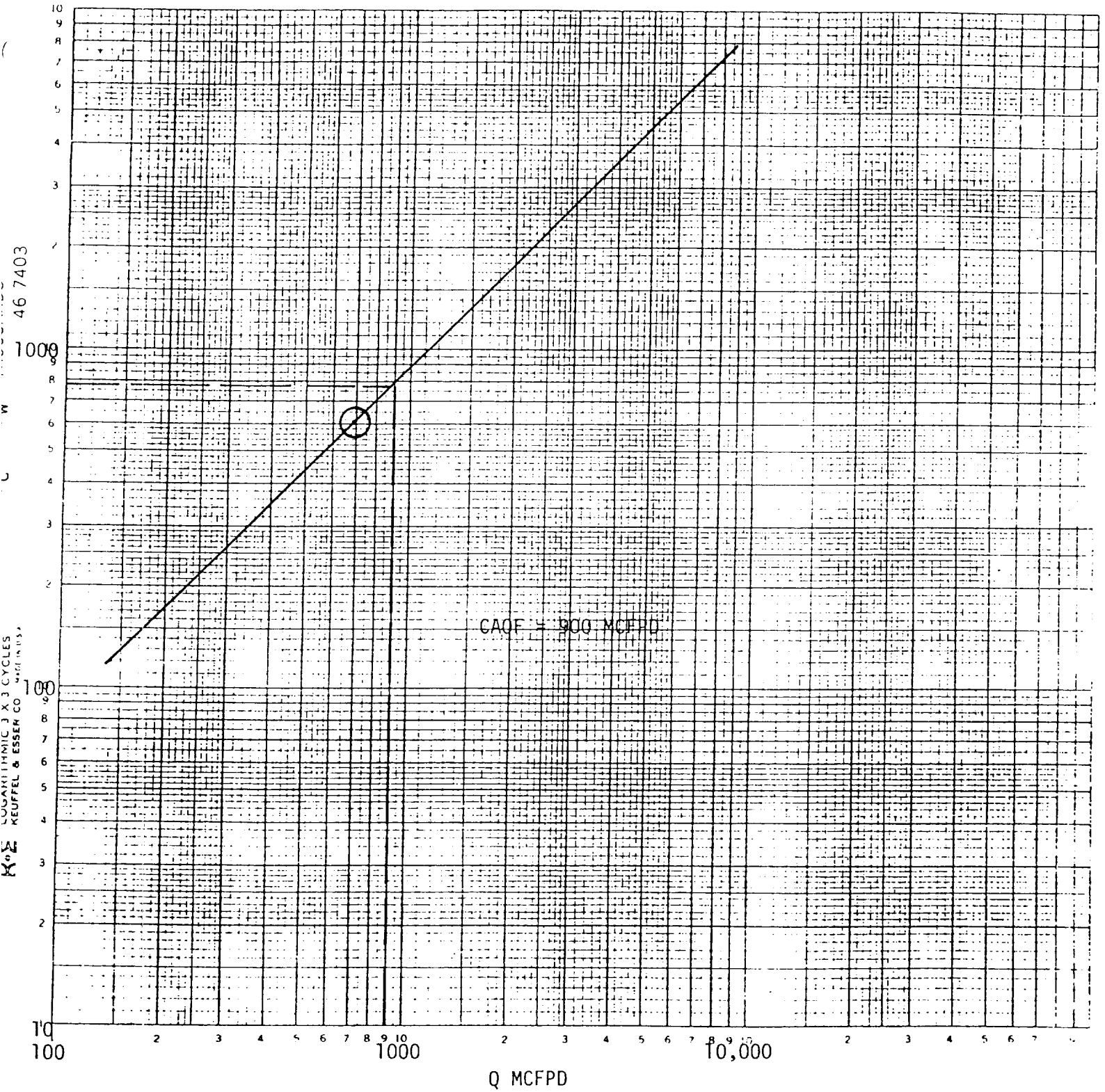
Post ID-2
11-26-82
Camp & BH

Absolute Open Flow	900	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:
-------------------------	------------------------------	-------------------------------------	-------------

MESA PETROLEUM CO.
CHI' FEDERAL NO. 7
CHAVES CO., NM
6-28-82



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