

N MEXICO OIL CONSERVATION COM ON
MULTIPOINT AND ONE POINT BACK PRESSURE TEST FOR GAS WELL

Form C-122
Revised 9-1-65

1st
File

RECEIVED
JUL 20 1982

Type Test ☒ Initial ☐ Annual ☐ Special		Test Date 6-30-82	
Company MESA PETROLEUM CO. ✓		Connection UNCONNECTED	
Pool <i>Und.</i> PECOS SLOPE ABO		Formation ABO	
Completion Date 6-30-82	Total Depth 3150'	Plug Back TD 3038'	Elevation 4009'
Csg. Size 4 1/2"		Well No. 11	
Perforations: From 2857' To 2972'		Unit OIL & GAS U.S. GEOLOGICAL SURVEY ROSVELL, NEW MEXICO	
Tub. Size 2 3/8"		Perforations: From OPEN ENDED	
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° @ 3150'		Mean Annual Temp. °F 60	
Baro. Press. - P _a 13.2		County CHAVES	
L	H	G _g .65	% CO ₂ 1
		% N ₂ 1	% H ₂ S
Prover 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
1.	2" ORIFICE	1 1/4"		7.5		80	255	88	275		72 HRS
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 Compress. Factor, F _{spv}	Rate of Flow Q, Mcfd
1	637	2" ORIFICE		.9813	.9608		601
2		WELL TESTER					
3.							
4.							
5.							

NO.	P _r	Temp. °R	T _r	Z	Gas Liquid Hydrocarbon Ratio _____ Mcf/Dol.
1.					A.P.I. Gravity of Liquid Hydrocarbons _____ Deg.
2.					Specific Gravity Separator Gas _____ X 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 _r 733	P _c ² 537	(1) $\frac{P_c^2}{P_c^2 - P_w^2} = 1.1828$	(2) $\left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 1.1828$
NO.	P _w	P _w ²	P _c ² - P _w ²
1	288	83	454
2			
3			
4			
5			

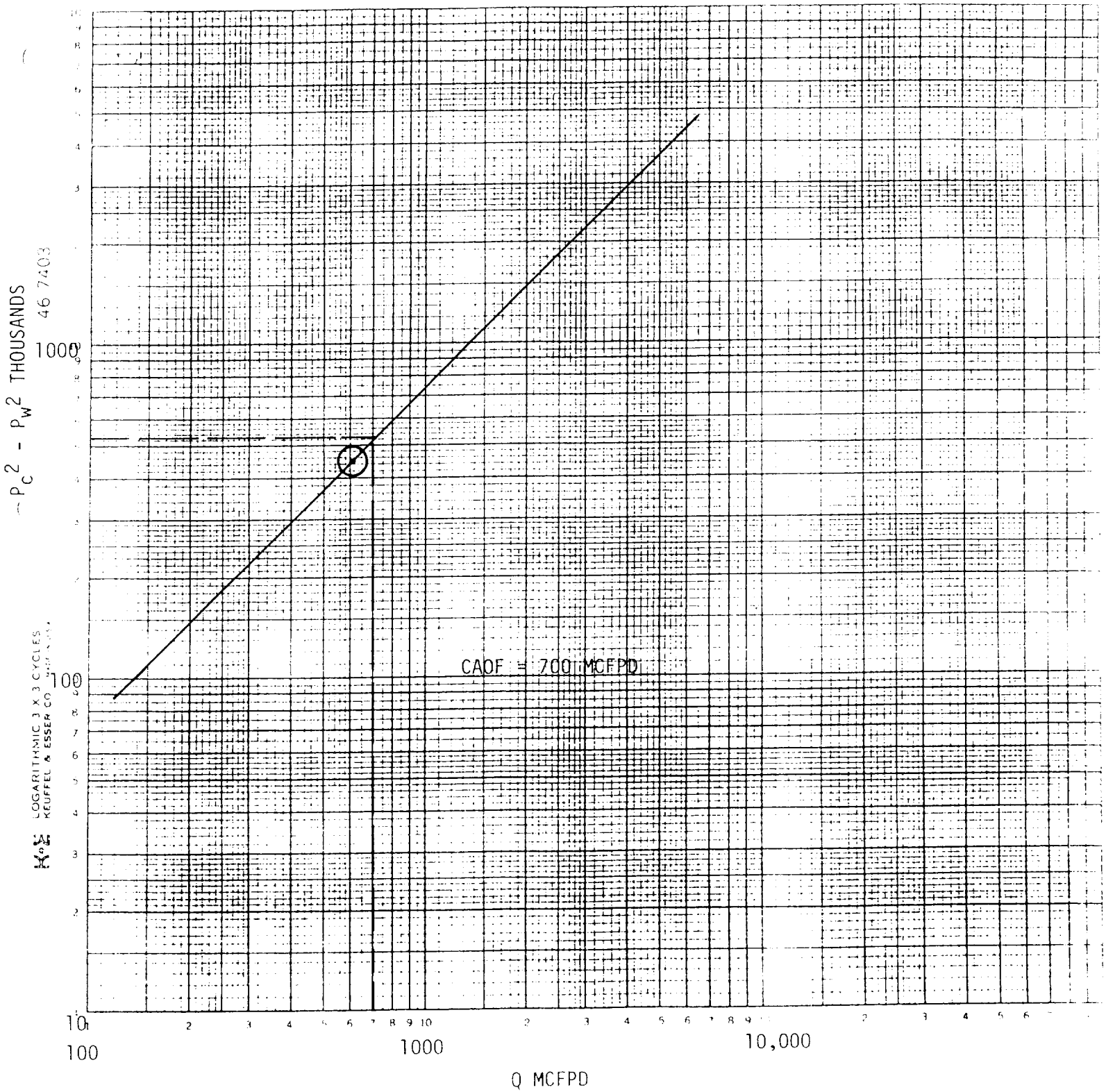
ADP = Q $\left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 700$

*Posted FD-2
10-1-82
Comp. & BK.*

Absolute Open Flow 700	Mcft @ 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: <i>EB 7-15-82</i> E.L. BUTTROSS, JR	Checked By:
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ASSUMED $N = 1$ AND $\theta = 45^\circ$