

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

Form C-122
Revised 9-1-65

*c/SF
File*

RECEIVED

Type Test ☒ Initial ☐ Annual ☐ Special		Test Date 6-12-82		SEP 30 1982	
Company MESA PETROLEUM CO. ✓			Connection UNCONNECTED		
Pool WEST PECOS SLOPE ABO			Formation ABO		
Completion Date 6-12-82		Total Depth 3400'		Plug Back TD 3070'	
Elevation 4054'		Name or Lease Name MARLEY FEDERAL			
Csg. Size 4 1/2"	Wt. 10.5#	Set At 3090'	Perforations: From 2865' To 2902'		Well No. 1
Tq. Size 2 3/8"	Wt. 4.7#	Set At 2876'	Perforations: From OPEN ENDED		Unit Sec. Twp. Rge. M 19 9S 23E
Type Well - Single - Padenhead - G.G. or G.O. Multiple SINGLE			Packer Set At NONE		County CHAVES
Producing Thru TUBING		Reservoir Temp. °F 95° @ 3400'	Mean Annual Temp. °F 60	Baro. Press. - P _a 13.2	State NEW MEXICO
L	H	G _g .65	% CO ₂ 1	% N ₂ 1	% H ₂ S 2" ORIFICE WELL TESTER

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.	
1.	2" ORIFICE	3/4"	4	74	815	50	82	110	50 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 F _L	Gravity Factor F _g	Super Compress. Factor, F _{pv}	Rate of Flow Q, Mcfd
1.	145	2" ORIFICE		.9868	.9608		137
2.		WELL TESTER					
3.							
4.							
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 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 828	P _c ² 686	(1) $\frac{P_c^2}{P_c^2 - P_w^2} = 1.0223$	(2) $\left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 1.0223$
NO.	P _t ²	P _w ²	P _c ² - P _w ²
1.		123	15
2.			671
3.			
4.			
5.			

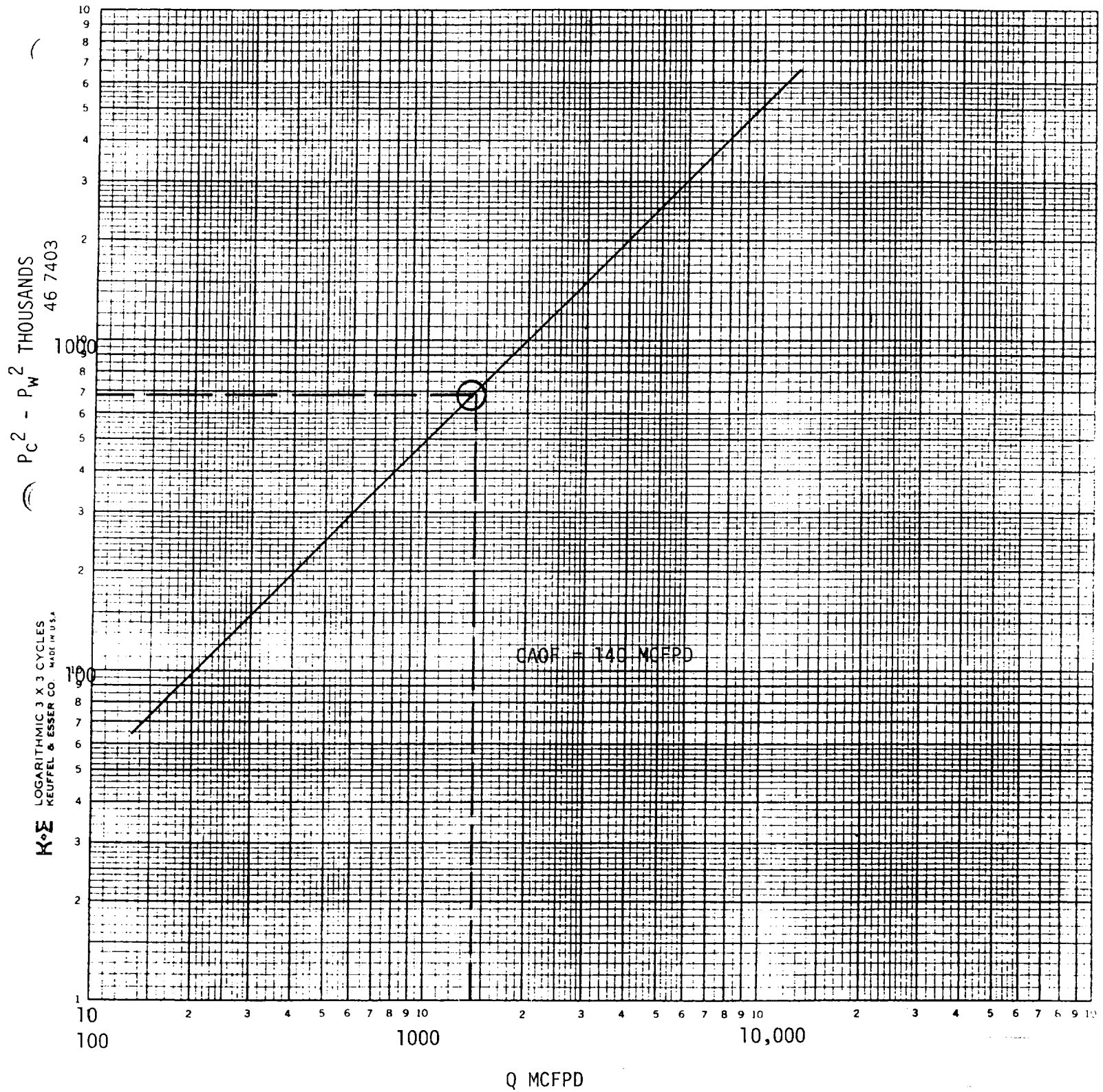
Absolute Open Flow 140 Mcfd @ 15.025		Angle of Slope 45°	Slope, n 1
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Remarks: Unable to run four flow rates due to low delivery of well. Assumed N = 1 and based calculations on one point test.

Approved By Commission:	Conducted By: JAMES CRAIG	Calculated By: 6-29-82 E.L. BUTTROSS, JR	Checked By:
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*Posted ID-2
10-1-82
Comp & BK*

MESA PETROLEUM CO.
MARLEY FEDERAL NO. 1
CHAVES CO., NM
6-12-82



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