Form C-122
Revised 9-1-65

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

c/SF
C-122

Type Test USGS: [X] Initial [ ] Annual [ ] Special — Test Date: 2-22-82

Company: MESA PETROLEUM CO. ✓ — Connection: UNCONNECTED — Unit:

Pool: Pecos Slope ~~Undesignated~~ ABO — Formation: ABO

Completion Date: 2-22-82 — Total Depth: 4250' — Plug Back TD: 4216' — Elevation: 3726' — Farm or Lease Name: Jamie Com

Csg. Size	Wt.	d	Set At	Perforations	Well No.
4 1/2"	10.5#		4250'	From 3804' To 3883'	1

Tbg. Size	Wt.	d	Set At	Perforations	Unit	Sec.	Twp.	Rge.
2 3/8"	4.7#		3685'	From open ended To	G	33	5S	25E

Type Well – Single – Bradenhead – G.G. or G.O. Multiple: Single — Packer Set At: None — County: Chaves

Producing Thru: Tubing — Reservoir Temp. °F: 101 @ 4250 — Mean Annual Temp. °F: 60 — Baro. Press. – P_a: 13.2 — State: New Mexico

L	H	Gg	% CO_2	% N_2	% H_2S	Prover	Meter Run	Taps
		.65	1	1		2" ORIFICE WELL TESTER		

NO.	FLOW DATA: Prover Line Size	X	Orifice Size	Press. p.s.i.g.	Diff. h_w	Temp. °F	TUBING DATA: Press. p.s.i.g.	Temp. °F	CASING DATA: Press. p.s.i.g.	Temp. °F	Duration of Flow
SI							860		830		72 Hr.SI
1.	2" ORIFICE		1 1/4	7.5		45	710	68	715		1 hr.
2.	WELL		1 1/4	12		53	595	74	600		1 hr.
3.	TESTER		1 1/4	14.5		59	470	76	475		1 hr.
4.			1 1/4	16		61	325	76	400		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	637	2" ORIFICE WELL		1.0147	.9608		621
2.	840	TESTER		1.0068	.9608		813
3.	944			1.0010	.9608		908
4.	1004			.9990	.9608		963
5.							

NO.	P_t	Temp. °R	T_r	Z
1.				
2.				
3.				
4.				
5.				

Gas Liquid Hydrocarbon Ratio _____ Mcf/bbl.
A.P.I. Gravity of Liquid Hydrocarbons _____ Deg.
Specific Gravity Separator Gas _____ XXXXXXXXXX
Specific Gravity Flowing Fluid XXXXX _____
Critical Pressure _____ P.S.I.A. _____ P.S.I.A.
Critical Temperature _____ R _____ R

P_c 843 P_c^2 711

NO	P_t^2	P_w	P_w^2	$P_c^2 - P_w^2$
1		728	530	181
2		613	376	335
3		488	238	473
4		413	171	540
5				

(1) $\frac{P_c^2}{P_c^2 - P_w^2} = 1.3167$ (2) $\left[\frac{P_c^2}{P_c^2 - P_w^2}\right]^n = 1.1475$

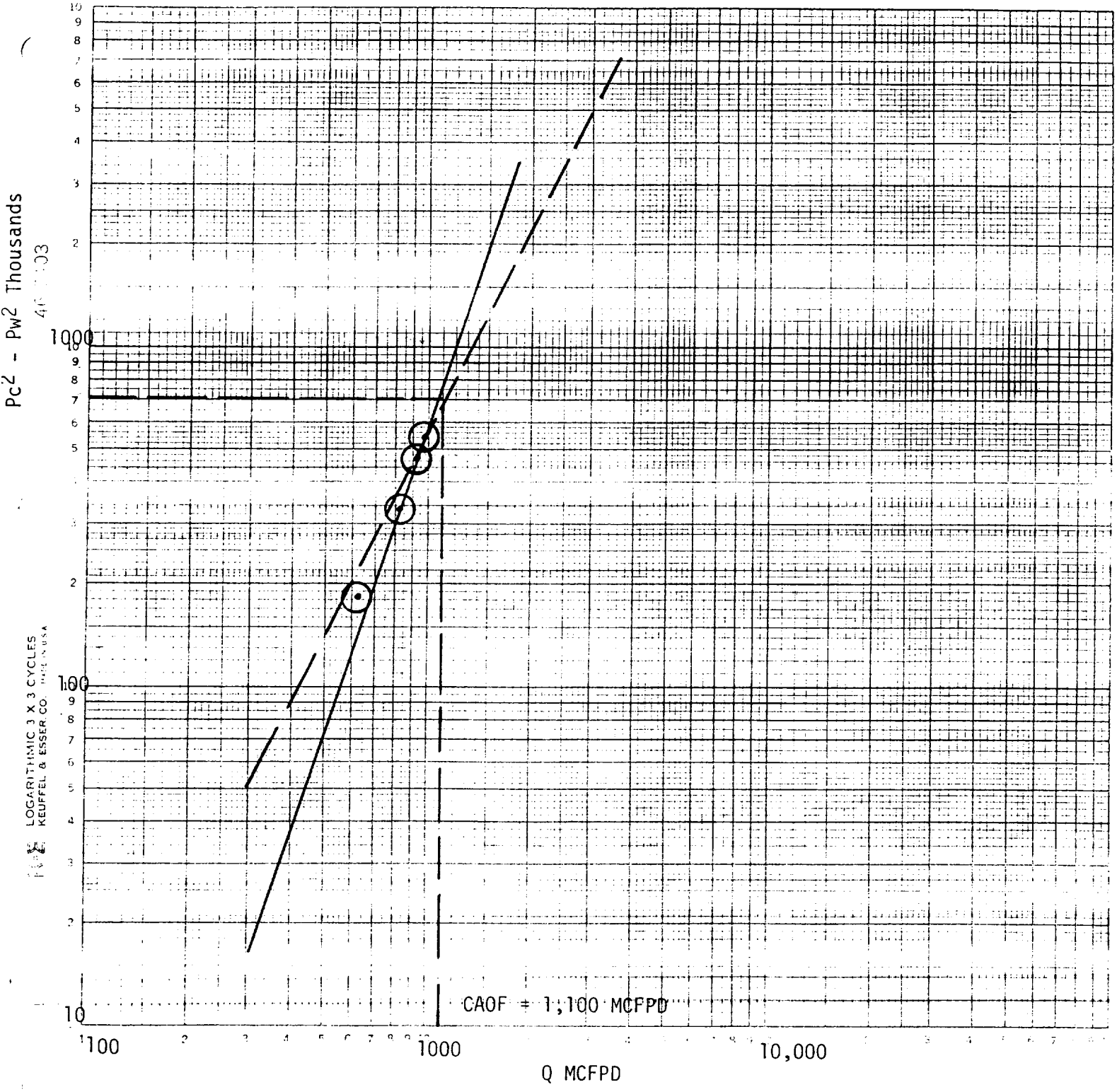
AOF = Q $\left[\frac{P_c^2}{P_c^2 - P_w^2}\right]^n = 1,100$

Absolute Open Flow 1,100 Mcfd @ 15.025 — Angle of Slope θ 63.5 — Slope, n .5

Remarks: Plot of Pc^2-Pw^2 vs Q yielded a straight line with a θ greater than 63.5°.
Drew 63.5° line through highest point.

Approved By Commission: — Conducted By: James Craig — Calculated By: ELB 2-25-82 E.L. Buttross, Jr. — Checked By:

Mesa Petroleum CO .
Jamie Com #1
Chaves Co., New Mexico
2-22-82



Assumed N = .5 and θ = 63.5°