NEW MEXICO OIL CONSERVATION COMMISSION

MULTIPOINT AND ONE POINT BACK PRESSURE TES. FOR GAS WELL

Form C-122
Revised 9-1-65

C/SF C-122

RECEIVED
JAN 22 1982
O. C. D.
ARTESIA, OFFICE

Type Test: [X] Initial [ ] Annual [ ] Special			Test Date: 1-11-82	
Company: MESA PETROLEUM CO.	Connection: Unconnected			
Pool: ~~Undesignated~~ Pecos Slope ABO	Formation: ABO			
Completion Date: 1-11-82	Total Depth: 4220'	Plug Back TD: 4167'	Elevation: 4046'	Farm or Lease Name: Foreman Federal Com
Csg. Size: 4 1/2" / Wt.: 10.5# / d: / Set At: 4212'		Perforations: From 3698' To 4039'		Well No.: 3
Tbg. Size: 2 3/8" / Wt.: 4.7# / d: / Set At: 3685'		Perforations: From open ended To		Unit: N / Sec.: 8 / Twp.: 6 / Rge.: 25
Type Well – Single – Bradenhead – G.G. or G.O. Multiple: Single		Packer Set At: none		County: Chaves
Producing Thru: tubing	Reservoir Temp. °F: 102 @ 4220	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		choke		

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						920		850		72 hr SI
1.	choke	14/64	860		34	860	34	810		1 hr.
2.	COEFF	17/64	780		44	780	44	755		1 hr.
3.		20/64	670		48	670	48	675		1 hr.
4.		25/64	460		48	460	48	620		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	873	1.026	1.240		880
2	1.187	choke	793	1.016	1.240		1186
3	1.645	choke	683	1.012	1.240		1409
4	2.587	choke	473	1.012	1.240		1535
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 _____ XXXXXXXXX
Specific Gravity Flowing Fluid XXXXX _____
Critical Pressure _____ P.S.I.A. _____ P.S.I.A.
Critical Temperature _____ R _____ R

P_c 863 P_c^2 745

NO	P_t^2	P_w	P_w^2	$P_c^2 - P_w^2$
1		823	677	68
2		768	590	155
3		688	473	272
4		633	401	344
5				

(1) $\frac{P_c^2}{P_c^2 - P_w^2} = 2.1657$ (2) $\left[\frac{P_c^2}{P_c^2 - P_w^2}\right]^n = 1.4716$

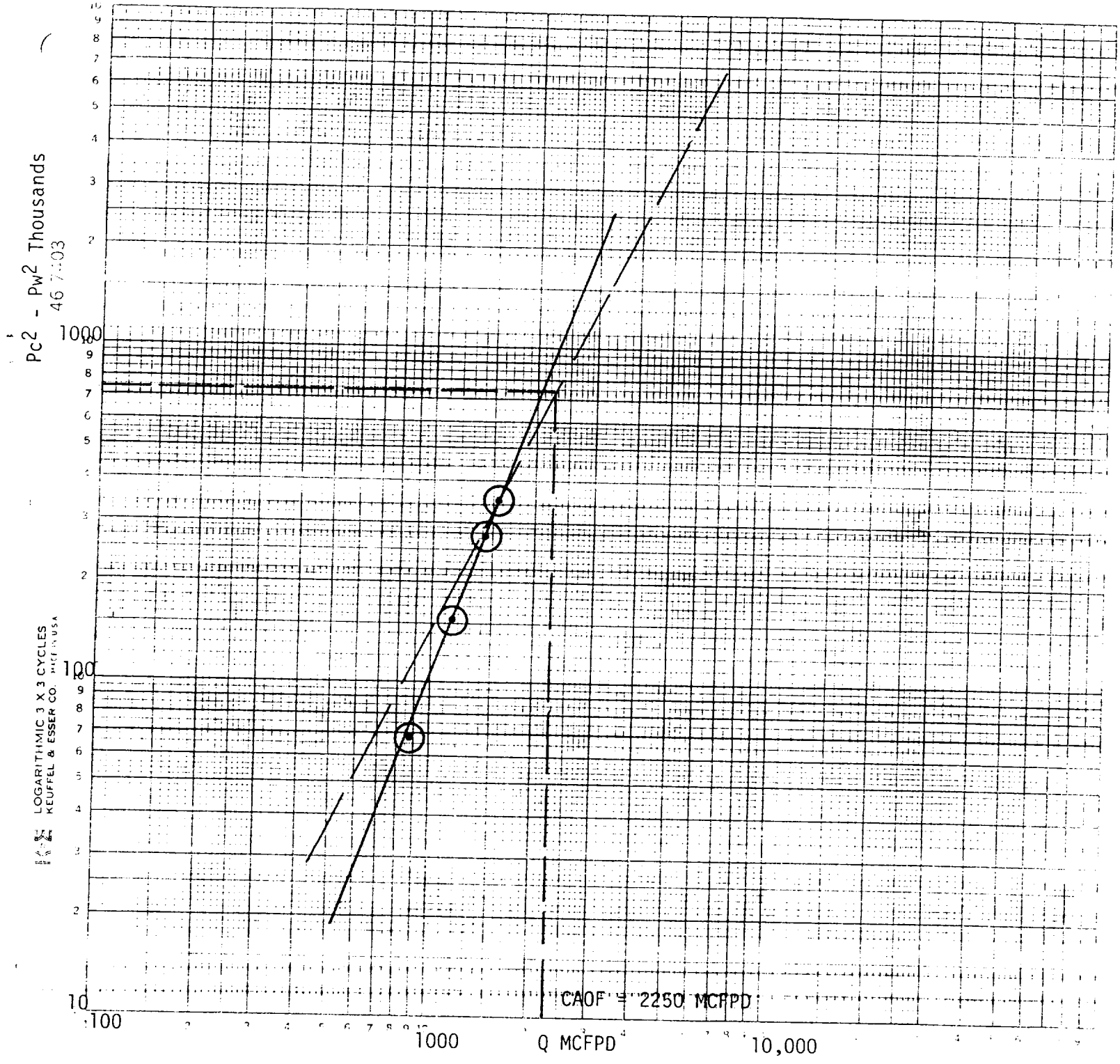
AOF = Q $\left[\frac{P_c^2}{P_c^2 - P_w^2}\right]^n = 2250$

Absolute Open Flow 2250 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:	Calculated By: ELB 1-13-82	Checked By:
	James Craig	E.L. Buttross, Jr.	

Mesa Petroleum Co.
oreman Federal Com. No 3
1-11-82



Assumed N = .5 and $\theta = 63.5°$