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

Form C-122
Revised 9-1-65

C/SF + C-122

RECEIVED
OCT 29 1981
O. C. D.
ARTESIA, OFFICE

Type Test: [X] Initial [ ] Annual [ ] Special			Test Date: 10-13-81	
Company: Mesa Petroleum Co	Connection: Unconnected			
Pool: Undesignated ABO	Formation: ABO			Unit:
Completion Date: 10-13-81	Total Depth: 4800	Plug Back TD: 4733	Elevation: 3682	Farm or Lease Name: Acme
Csg. Size: 4½ / Wt.: 10.5 / d: / Set At: 4792	Perforations: From 4534 To 4615			Well No.: 3
Tbg. Size: 2 3/8 / Wt.: 4.7 / d: / Set At: 4416	Perforations: From Open ended To			Unit: J / Sec.: 30 / Twp.: 8S / Rge.: 26E
Type Well – Single – Bradenhead – G.G. or G.O. Multiple: Single	Packer Set At: None			County: Chaves
Producing Thru: Tubing	Reservoir Temp. °F: 102 @ 4800	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
4416	4416	.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							940		880		48 hr. SI
1.	Choke		14/64	880	-	75	880	75	850		1 hr.
2.	Coeff.		18/64	795	-	75	795	75	800		1 hr.
3.			22/64	615	-	80	615	80	740		1 hr.
4.			26/64	525	-	80	525	80	690		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	893	.9859	1.240		865
2	1.331	Choke	808	.9859	1.240		1314
3	1.999	Choke	628	.9813	1.240		1527
4	2.794	Choke	538	.9813	1.240		1829
5							

NO.	P_t	Temp. °R	T_t	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 893 P_c^2 797

NO	P_t^2	P_w	P_w^2	$P_c^2 - P_w^2$
1		863	745	52
2		813	661	136
3		753	567	230
4		703	494	303
5				

(1) $\frac{P_c^2}{P_c^2 - P_w^2} = 2.6304$ (2) $\left[\frac{P_c^2}{P_c^2 - P_w^2}\right]^n = 1.6218$

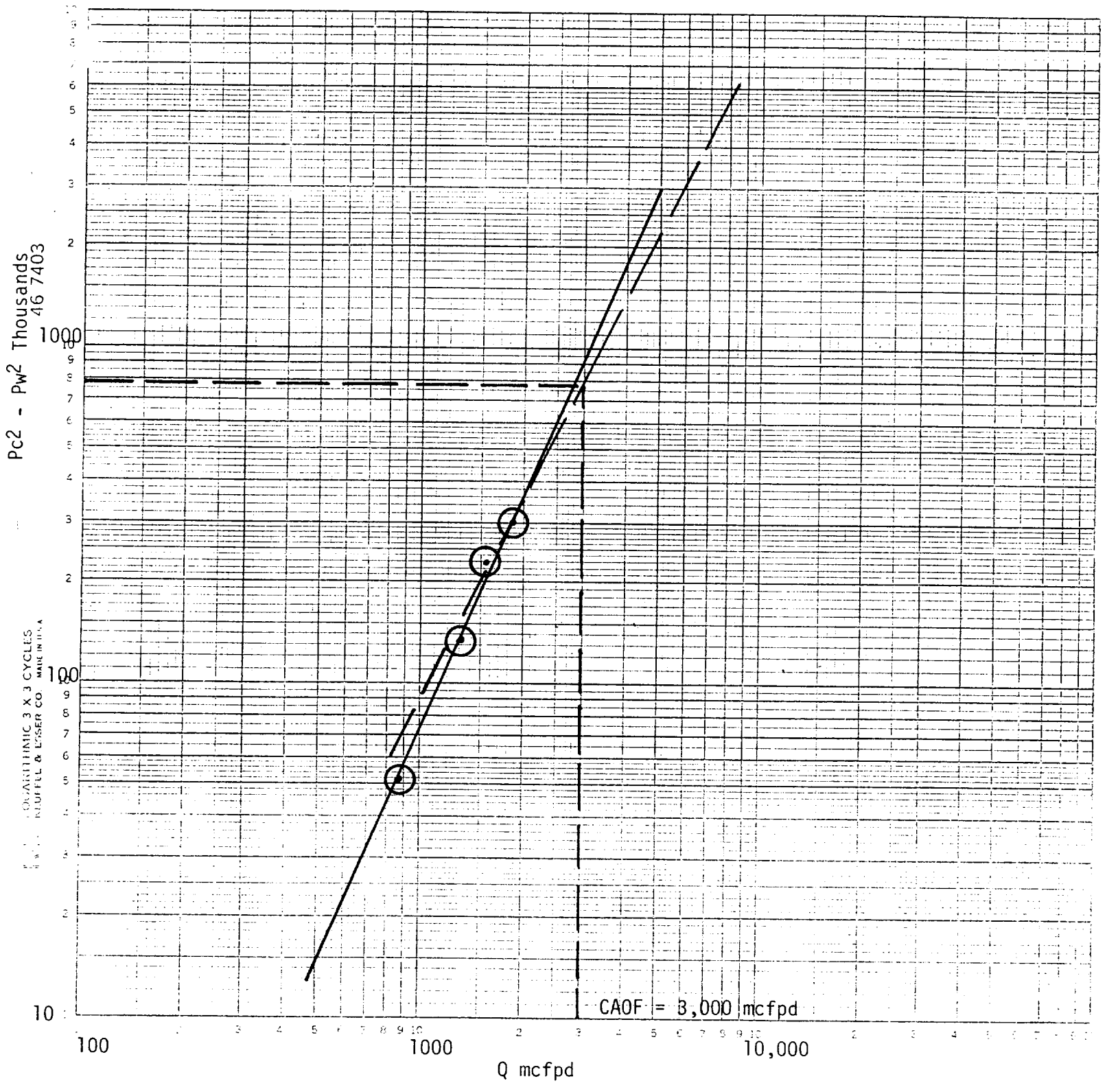
AOF = Q $\left[\frac{P_c^2}{P_c^2 - P_w^2}\right]^n = 3,000$

Absolute Open Flow 3,000 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:	Checked By:
	James Craig	E. L. Buttross, Jr.	

Mesa Petroleum Co.
Acme No. 3
Sec. 30, T8S, R26E
Chaves Co., NM.
10-13-81



Assumed N = .5 and θ = 63.5°.