NEW ME CO OIL CONSERVATION COMMSSION

MULTIPOINT AND ONE POINT BACK PRESSURE TEST FOR GAS WELL

Form C-122
Revised 9-1-65

RECEIVED
SEP 21 1981
O. C. D.
ARTESIA, OFFICE

Type Test: [X] Initial [ ] Annual [ ] Special				Test Date: 9-3-81	
Company: Mesa Petroleum Co.		Connection: UNCONNECTED			Unit:
Pool: UNDESIGNATED ABO		Formation: ABO			
Completion Date: 9-3-81	Total Depth: 3400'		Plug Back TD: 3295'	Elevation: 3980'	Farm or Lease Name: ROUND TOP STATE
Csg. Size: 4 1/2" / Wt.: 10.5 / d: / Set At: 3357'			Perforations: From 2900' To 3207'		Well No.: 4
Tbg. Size: 2 3/8" / Wt.: 4.7 / d: / Set At: 2816'			Perforations: From OPEN ENDED To		Unit: F / Sec.: 9 / Twp.: 7S / Rge.: 23E
Type Well – Single – Bradenhead – G.G. or G.O. Multiple: SINGLE			Packer Set At: NONE		County: CHAVES
Producing Thru: TUBING	Reservoir Temp. °F: 100 @ 3400	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
2816	2816	.65	1	2		2" ORIFICE WELL TESTER		

	FLOW DATA					TUBING DATA		CASING DATA		
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	Duration of Flow
SI						780		770		56 HR SI
1.	2" ORIFICE	1 1/4	4		90	260	85	250		1 HR
2.	WELL TESTER									
3.										
4.										
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	449	2" ORIFICE WELL		.9723	.9608		419
2.		TESTER					
3.							
4.							
5.							

NO.	P_r	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 770 P_c^2 593

NO	P_w	P_w^2	$P_c^2 - P_w^2$
1	250	63	530
2			
3			
4			
5			

(1) $\frac{P_c^2}{P_c^2 - P_w^2} = 1.1189$

(2) $\left[\frac{P_c^2}{P_c^2 - P_w^2}\right]^n = 1.1189$

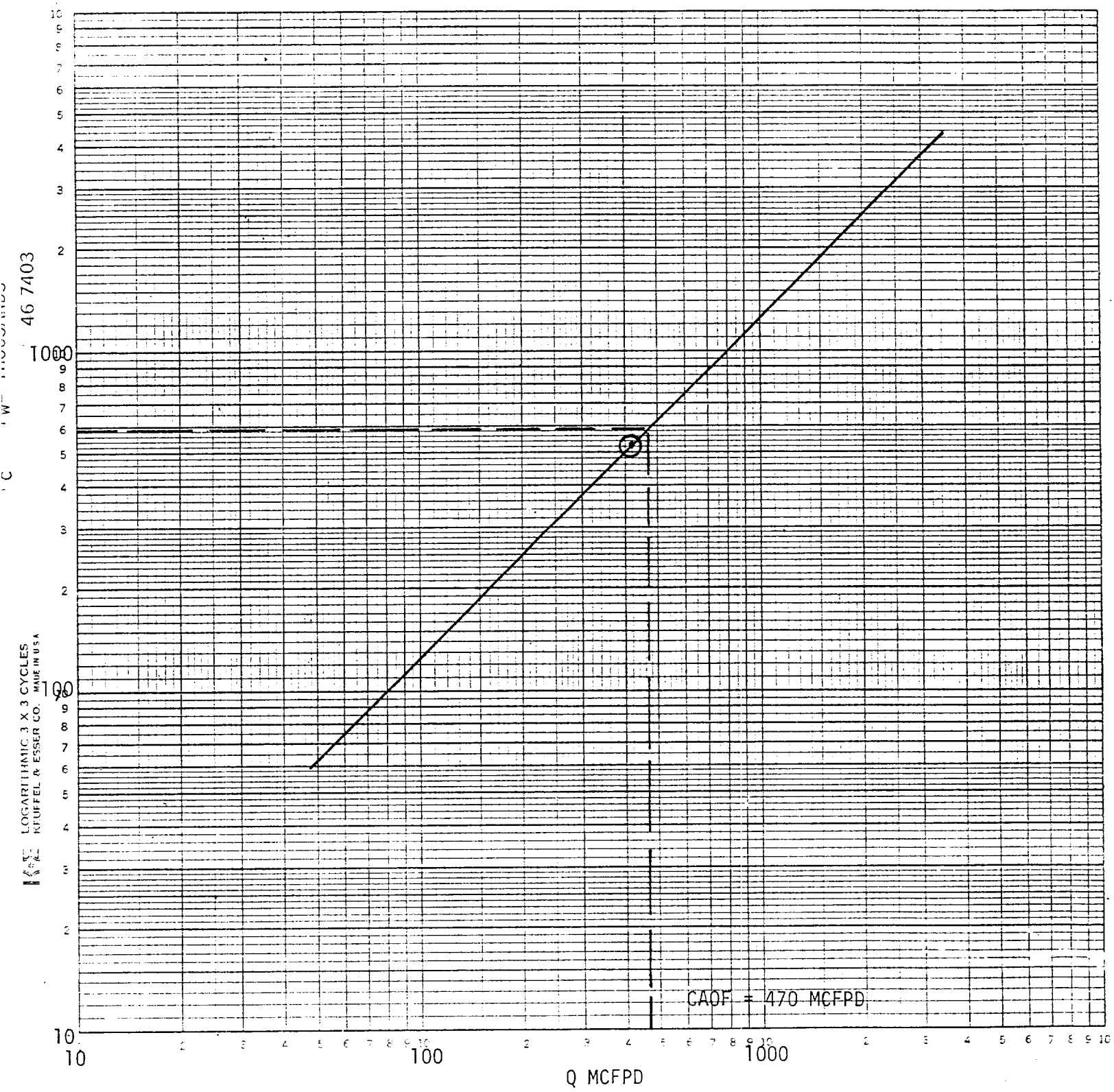
AOF = Q $\left[\frac{P_c^2}{P_c^2 - P_w^2}\right]^n = 470$

Absolute Open Flow 470 Mcfd @ 15.025 Angle of Slope θ _____ Slope, n _____

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:	Calculated By:	Checked By:
	JAMES CRAIG	E. L. BUTTROSS, JR	

MESA PETROLEUM CO.
ROUND UP STATE NO. 4
SEC 9, T7S, R23E
CHAVES COUNTY, NEW MEXICO
9-3-81



ASSUMED n = 1 AND θ = 45°