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
APR 21 1982
O. C. D.
ARTESIA, OFFICE

Type Test: [X] Initial [ ] Annual [ ] Special — Test Date: 4-15-82

Company: Mesa Petroleum Co. ✓	Connection: UNCONNECTED		
Pool: PECOS SLOPE ABO	Formation: ABO		Unit:
Completion Date: 4-15-82	Total Depth: 4150'	Plug Back TD: 3855'	Elevation: 3798'
Farm or Lease Name: RIC			
Csg. Size: 4½" / Wt.: 10.5# / d: / Set At: 4148'	Perforations: From 3493' To 3645'		Well No.: 6
Tbg. Size: 2 3/8" / Wt.: 4.7# / d: / Set At: 3390'	Perforations: From OPEN ENDED To		Unit: O / Sec.: 20 / Twp.: 6S / Rge.: 25E
Type Well – Single – Bradenhead – G.G. or G.O. Multiple: SINGLE	Packer Set At: NONE		County: CHAVES
Producing Thru: TUBING	Reservoir Temp. °F: 100 @ 4150'	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		

FLOW DATA / TUBING DATA / CASING DATA

NO.	Prover Line Size	X	Orifice Size	Press. p.s.i.g.	Diff. h_w	Temp. °F	Tubing Press. p.s.i.g.	Tubing Temp. °F	Casing Press. p.s.i.g.	Casing Temp. °F	Duration of Flow
SI							875		840		56 HR SI
1.	2" ORIFICE		1	20		80	235	80	270		1 HR
2.	WELL										
3.	TESTER										
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	683	2" ORIFICE WELL		.9813	.9608		644
2.		TESTER					
3.							
4.							
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 853 P_c^2 728

NO	P_t^2	P_w	P_w^2	$P_c^2 - P_w^2$
1		283	80	648
2				
3				
4				
5				

(1) $\frac{P_c^2}{P_c^2 - P_w^2} = 1.1234$ (2) $\left[\frac{P_c^2}{P_c^2 - P_w^2}\right]^n = 1.1234$

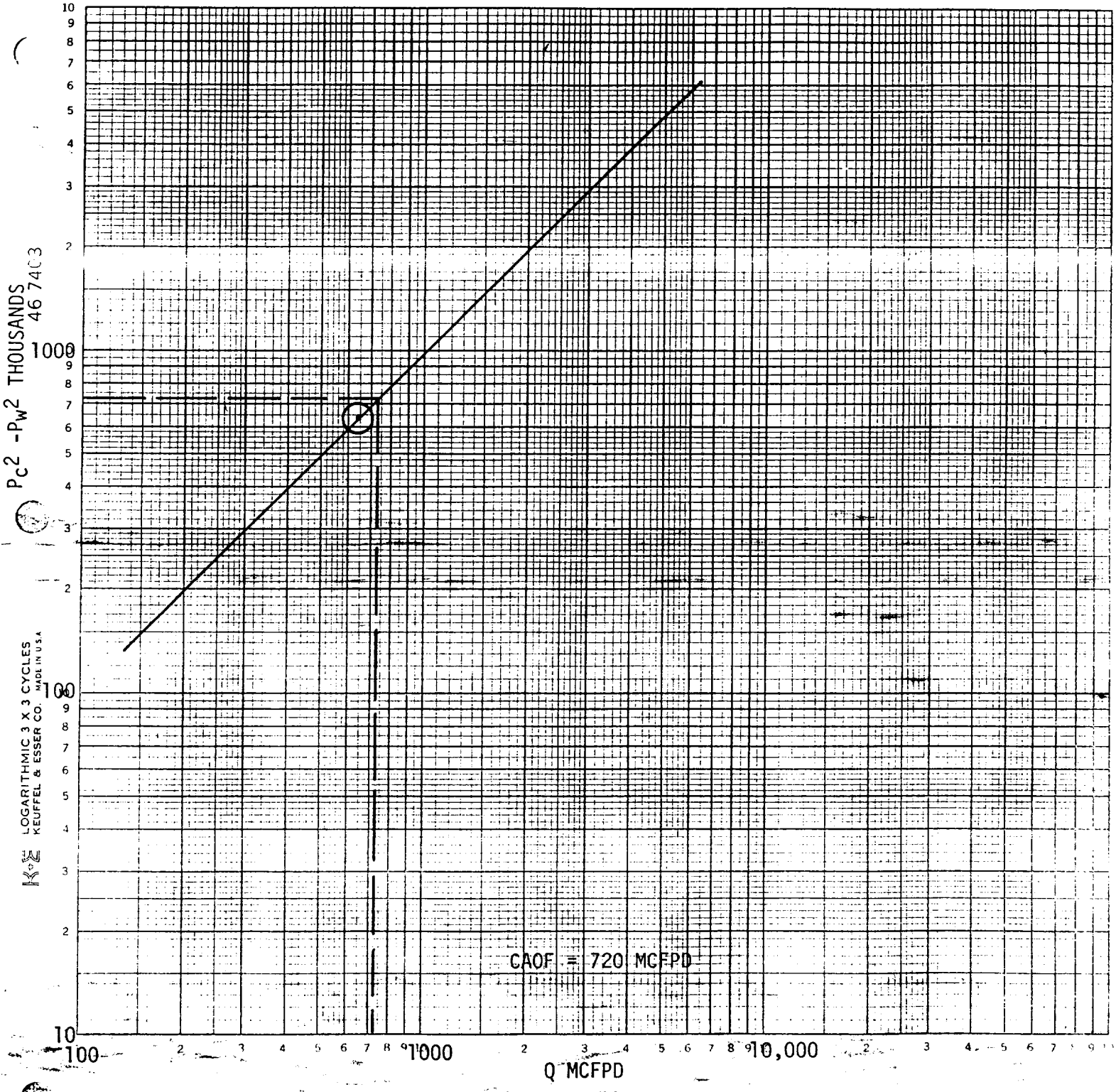
$AOF = Q \left[\frac{P_c^2}{P_c^2 - P_w^2}\right]^n = 720$

Absolute Open Flow 720 Mcfd @ 15.025 — Angle of Slope θ 45° — Slope, n 1

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. 4-20-82	

MESA PETROLEUM CO.
RIC NO. 6
CHAVES COUNTY, NEW MEXICO
4-15-82



ASSUMED N = 1 AND θ = 45°