NEW MEXICO OIL CONSERVATION COMMSSION
MULTIPOINT AN ONE POINT BACK PRESSURE TES FOR GAS WELL

Form C-122
Revised 9-1-65

C/SF
5-7-82

RECEIVED
MAY - 7 1982
O. C. D.
ARTESIA, OFFICE

Type Test: [X] Initial [ ] Annual [ ] Special				Test Date: 4-22-82	
Company: Mesa Petroleum Co.		Connection: UNCONNECTED			
Pool: PECOS SLOPE ABO		Formation: ABO		Unit	
Completion Date: 4-22-82	Total Depth: 4109'	Plug Back TD: 3822'	Elevation: 3879'	Farm or Lease Name: CAMACK FED COM	
Csg. Size: 4 1/2" / Wt.: 10.5# / d: / Set At: 4109'		Perforations: From 3620' To 3830'		Well No.: 7	
Tbg. Size: 2 3/8" / Wt.: 4.7# / d: / Set At: 3544'		Perforations: From OPEN ENDED To		Unit: E / Sec.: 12 / Twp.: 5S / Rge.: 24E	
Type Well – Single – Bradenhead – G.G. or G.O. Multiple: SINGLE		Packer Set At: NONE		County: CHAVES	
Producing Thru: TUBING	Reservoir Temp. °F: 101 @ 4109	Mean Annual Temp. °F: 60	Baro. Press. – P_a: 13.2	State: NEW MEXICO	
L	H	Gg: .65	% CO_2: 1	% N_2: 1	% H_2S

Prover: 2" CRITICAL FLOW PROVER | Meter Run | Taps

NO.	Prover Line Size	X	Orifice Size	Press. p.s.i.g.	Diff. h_w	Temp. °F	TUBING DATA Press. p.s.i.g.	TUBING DATA Temp. °F	CASING DATA Press. p.s.i.g.	CASING DATA Temp. °F	Duration of Flow
SI							940		820		72 HR SI
1.	2"	X	1"	20		18	905	55	802		1 HR
2.	2"	X	1"	52		24	820	58	767		1 HR
3.	2"	X	1"	88		35	700	60	716		1 HR
4.	2"	X	1"	105		44	595	62	668		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	17.09	FLOW PROVER	33	1.043	1.24		729
2.	17.09	FLOW PROVER	65	1.037	1.24		1428
3	17.09	FLOW PROVER	101	1.025	1.24		2193
4.	17.09	FLOW PROVER	118	1.016	1.24		2540
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 833 P_c^2 694

NO	P_t^2	P_w	P_w^2	$P_c^2 - P_w^2$
1		815	664	30
2		780	608	86
3		729	531	163
4		681	464	230
5				

(1) $\frac{P_c^2}{P_c^2 - P_w^2} = 3.47$

(2) $\left[\frac{P_c^2}{P_c^2 - P_w^2}\right]^n = 2.0835$

Posted III-2 & Comp. Book 5-14-82

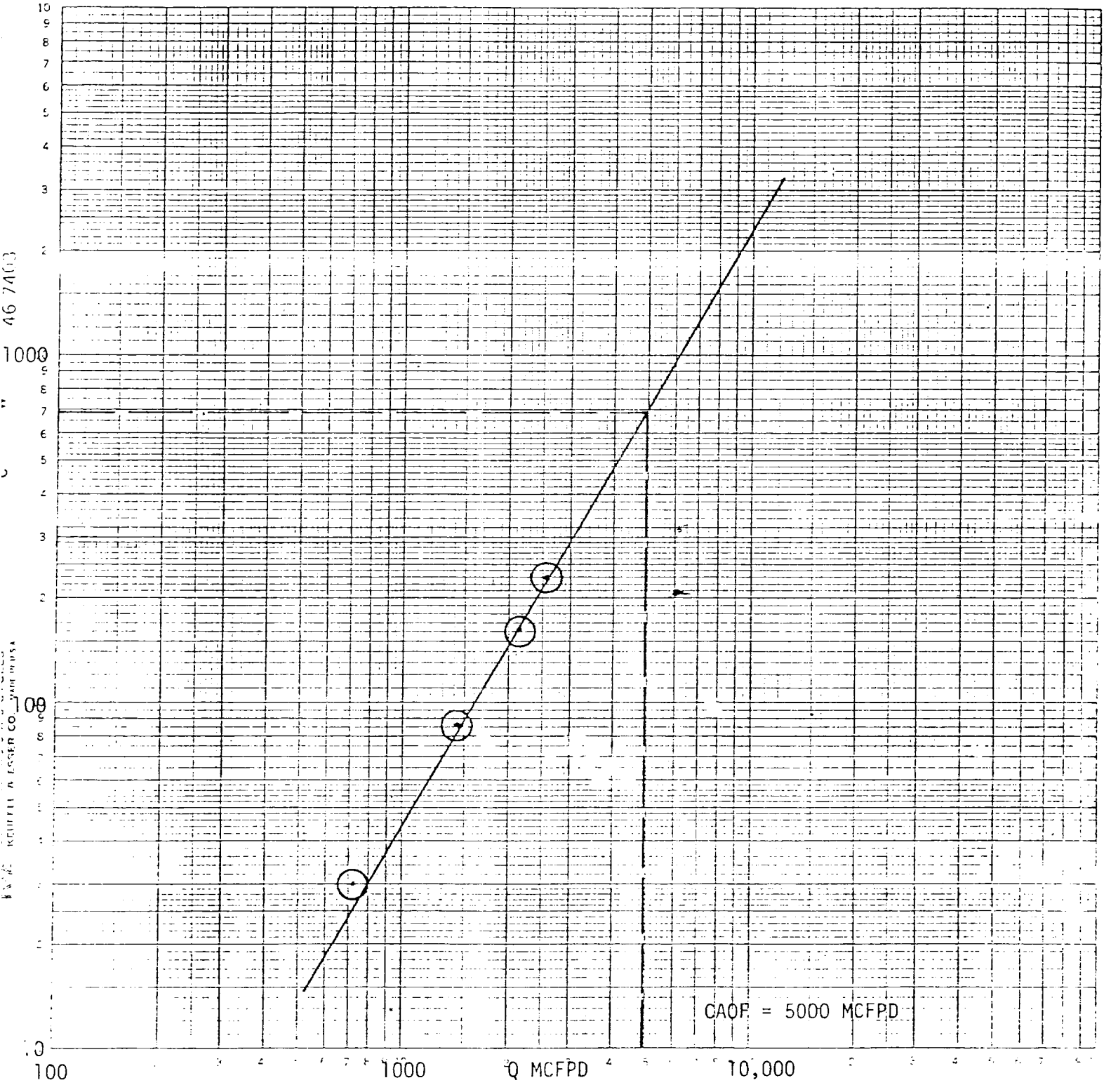
AOF = Q $\left[\frac{P_c^2}{P_c^2 - P_w^2}\right]^n = 5000$

Absolute Open Flow 5000 Mcfd @ 15.025 | Angle of Slope θ 59.5 | Slope, n .59

Remarks: _____

Approved By Commission:	Conducted By:	Calculated By: [illegible] 5-4-82 E. L. RUTTROSS, JR.	Checked By:

MESA PETROLEUM CO.
CAMACK FEDERAL NO. 7
CHAVES CO., NM
4-22-82



$$N = 1/SLOPE = \frac{LOG\ Q2 - LOG\ Q1}{CYCLE} = \frac{LOG\ 6200 - LOG\ 1600}{CYCLE} = 3.79 - 3.20 = .59$$

$\theta = 59.5°$