STATE OF NEW MEXICO
ENERGY AND MINERALS DEPARTMENT

OIL CONSERVATION DIVISION

P. O. BOX 2088
SANTA FE, NEW MEXICO 87501

c/SF
F. C

Form C-122
Revised 10-1-78

MULTIPOINT AND ONE POINT BACK PRESSURE TEST FOR GAS WELL

RECEIVED
OCT 20 1982
O. C. D.
ARTESIA, OFFICE

Type Test: [x] Initial [ ] Annual [ ] Special			Test Date: 9-17-82	
Company: Mesa Petroleum Co.	Connection: unconnected			
Pool: Pecos Slope ABO	Formation: ABO			Unit
Completion Date: 9-17-82	Total Depth: 4800'	Plug Back TD: 4714'	Elevation: 3732'	Farm or Lease Name: Acme Com
Csg. Size: 4½ / Wt.: 10.5# / d / Set At: 4761'		Perforations: From 4553' To 4639'		Well No.: 12
Tbg. Size: 2-3/8 / Wt.: 4.7# / d / Set At: 4616'		Perforations: From open ended To		Unit: 0 / Sec.: 20 / 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: 103° @ 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
		.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	Press. p.s.i.g.	Temp. °F	Press. p.s.i.g.	Temp. °F	Duration of Flow
SI					940		940		48 hr. SI
1.	2" Orifice Well	18		56	120	46	180		1 hr.
2.	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	638	2" Orifice Well		1.0039	.9608		615
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 953 P_c^2 908

NO	P_w	P_w^2	$P_c^2 - P_w^2$
1	193	37	871
2			
3			
4			
5			

(1) $\frac{P_c^2}{P_c^2 - P_w^2} = 1.0424$

(2) $\left[\frac{P_c^2}{P_c^2 - P_w^2}\right]^n = 1.0424$

Posted ID-2
10-22-82
Comp + BR

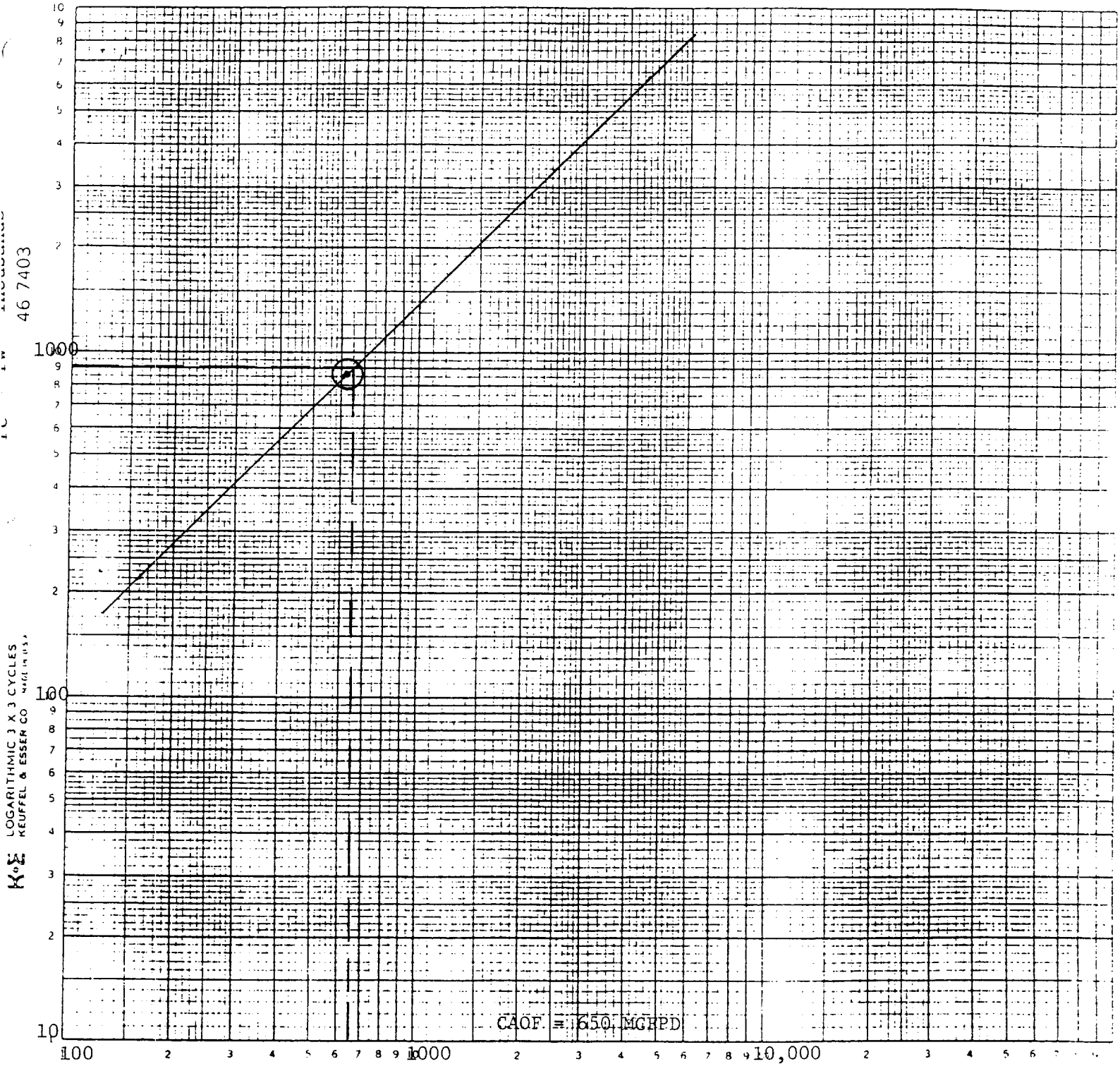
AOF = Q $\left[\frac{P_c^2}{P_c^2 - P_w^2}\right]^n = 650$

Absolute Open Flow 650 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 Division	Conducted By:	Calculated By:	Checked By:
		James Craig	E.L. Buttross, Jr.

MESA PETROLEUM CO.
Acme Com No. 12
Chaves County, New Mexico
9-17-82



Q MCFPD

Assumed N=1 and $\theta = 45^{\circ}$