NEW MEXICO OIL CONSERVATION COMMSSION
MULTIPOINT A' ONE POINT BACK PRESSURE TES OR GAS WELL

Form C-122
Revised 9-1-65

RECEIVED
JUN 8 1981
O. C. D.
ARTESIA, OFFICE

Type Test: [X] Initial [ ] Annual [ ] Special				Test Date: 5-18-81	
Company: Mesa Petroleum Co.			Connection: Unconnected		
Pool: Undesignated Abo			Formation: Abo		Unit:
Completion Date: 5-18-81	Total Depth: 4465'		Plug Back TD: 4360'	Elevation: 3699'	Farm or Lease Name: Davis
Csg. Size: 4 1/2 / Wt.: 10.5 / d: / Set At: 4399			Perforations: From 3686 To 3960		Well No.: 1
Tbg. Size: 2 3/8 / Wt.: 4.7 / d: / Set At: 3600			Perforations: From Open Ended To		Unit: L / Sec.: 12 / Twp.: 7S / 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: 105° @ 4400	Mean Annual Temp. °F: 60	Baro. Press. – P_a: 13.2		State: New Mexico
L: 3600	H: 3600	Gg: .65	% CO_2: 1	% N_2: 4	% H_2S:
Prover: Choke	Meter Run:	Taps:			

	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						960		975		65 hr SI
1.	Choke	13/64	930	---	80	930	80	948		3/4 hr
2.	Coefficients	19/64	860	---	80	860	80	890		3/4 hr
3.		24/64	770	---	80	803	80	803		3/4 hr
4.		27/64	655	---	80	740	80	740		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	.6778	choke	930	.9813	1.240		767
2.	1.484	choke	860	.9813	1.240		1552
3.	2.388	choke	770	.9813	1.240		2237
4.	3.009	choke	655	.9813	1.240		2398
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 975 P_c^2 951

NO	P_t^2	P_w	P_w^2	$P_c^2 - P_w^2$
1		948	899	52
2		890	792	159
3		803	645	306
4		740	548	403
5				

(1) $\frac{P_c^2}{P_c^2 - P_w^2} = 5.9811$ (2) $\left[\frac{P_c^2}{P_c^2 - P_w^2}\right]^n = 2.9246$

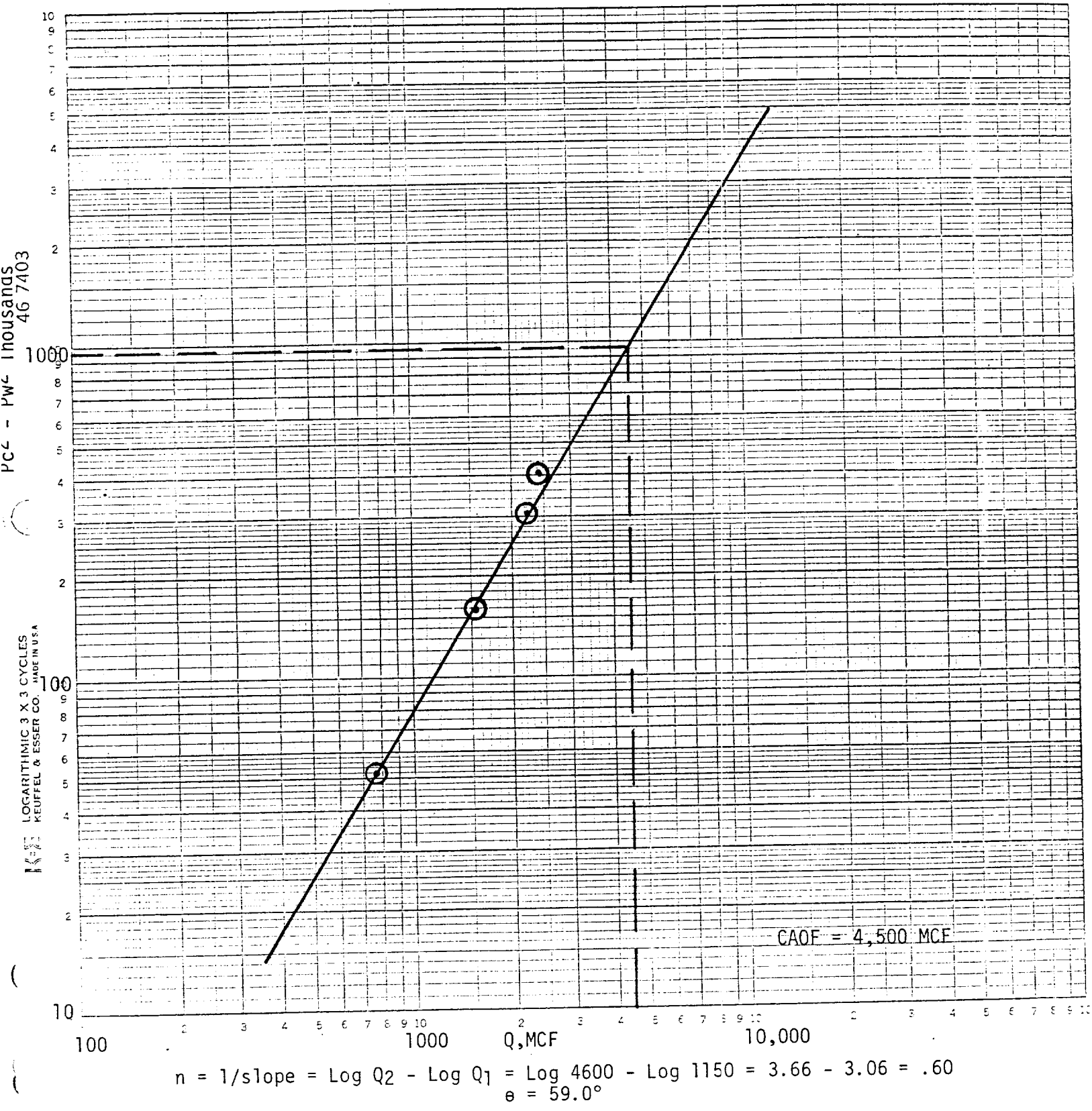
AOF = Q $\left[\frac{P_c^2}{P_c^2 - P_w^2}\right]^n = 4,500$

Absolute Open Flow 4,500 Mcfd @ 15.025 | Angle of Slope θ 59° | Slope, n .60

Remarks:

Approved By Commission:	Conducted By:	Calculated By: EJB F. I. Buttross, Jr.	Checked By:

Mesa Petroleum Co.
Davis #1
Sec 12, T7S, R25E
Chaves County, New Mexico
5-18-81



$n = 1/\text{slope} = \text{Log } Q_2 - \text{Log } Q_1 = \text{Log } 4600 - \text{Log } 1150 = 3.66 - 3.06 = .60$

$\theta = 59.0°$