

NEW MEXICO OIL CONSERVATION COMMISSION
MULTIPOINT AND ONE POINT BACK PRESSURE TEST FOR GAS WELL

Form C-122
 Revised 9-1-65

Type Test ☒ Initial ☐ Annual ☐ Special				Test Date 30-059-20304			
Company AMXO PRODUCTION COMPANY				Connection			
Pool BRANDOME CARBON DIOXIDE GAS UNIT				Formation TUBB		Unit BDXDEU	
Completion Date 7/7/93		Total Depth 2339		Plug Back TD		Elevation 4790' GL	
Csq. Size 4 1/2" FG		Wt. 449		Set At 3.95		Perforations: From 2153 To 2339	
Thq. Size		Wt.		Set At		Perforations: From To	
Type well - Single - Brodenhead - G.G. or G.O. Multiple SINGLE				Packer Set At		County Union	
Producing Thru CASING		Reservoir Temp. °F 95		Mean Annual Temp. °F 50		Baro. Press. - P _a 12.2	
H 2339		G _a 1.529		% CO ₂ 100		% N ₂ 0	
Prover		Meter Run		Taps FLANGE			

FLOW DATA						TUBING DATA		CASING DATA		Duration of Flow
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.	
SI				260						
1.	4.026 x	0.250		235						0.5 hr
2.	4.026 x	0.375		205						0.5 hr
3.	4.026 x	0.500		185						0.5 hr
4.	4.026 x	0.750		130						0.5 hr
5.										

RATE OF FLOW CALCULATIONS							
NO.	Coefficient (24 Hour)	$\sqrt{h_w P_a}$	Pressure P _a	Flow Temp. Factor Ft.	Gravity Factor Fg	Super Compress. Factor, Fpv	Rate of Flow O. Mhd
1.							230
2.							469
3.							784
4.							1830
5.							

NO.	P _r	Temp. °R	T _r	Z	Gas Liquid Hydrocarbon Ratio	A.P.I. Gravity of Liquid Hydrocarbons	Specific Gravity Separator Gas	Specific Gravity Flowing Fluid	Critical Pressure	Critical Temperature
1.					DRY	DRY	1.529	XXXXXX	1072	547
2.										
3.										
4.										
5.										

NO.	P _r	P _w	P _r ²	P _w ²	P _r ² - P _w ²
1.	272.2	247.2	61.108	12.184	
2.	272.2	217.2	47.175	26.918	
3.	272.2	197.2	38.888	35.204	
4.	272.2	142.2	20.220	53.872	
5.					

(1) $\frac{P_r^2}{P_r^2 - P_w^2} = 5.706$

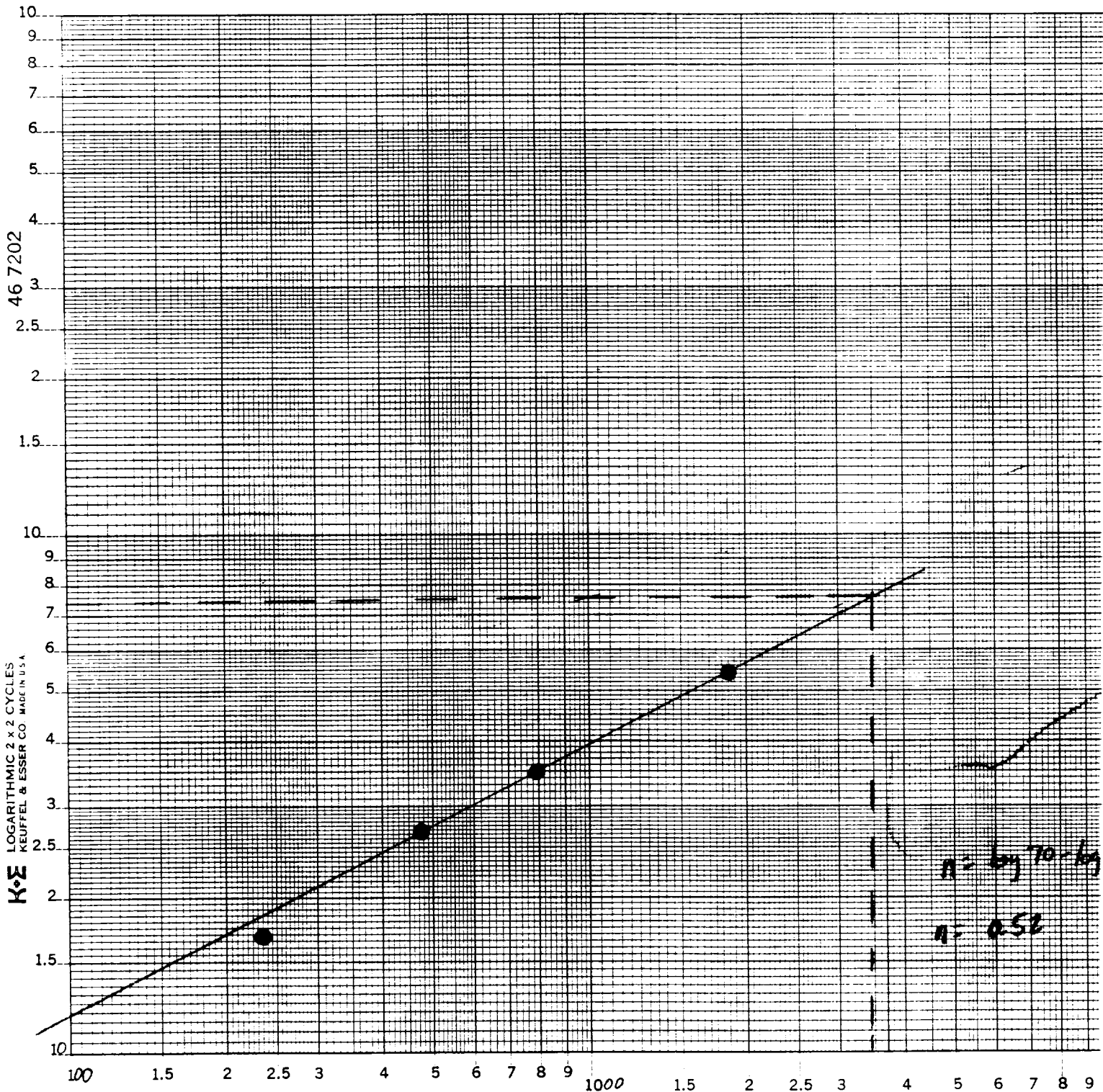
(2) $\left[\frac{P_r^2}{P_r^2 - P_w^2} \right]^n = 2.47$

AOF = Q $\left[\frac{P_r^2}{P_r^2 - P_w^2} \right]^n = 3.4$

Absolute Open Flow 3.4 Mhd @ 15.025

Angle of Slope @ 0.52

2233-281F



$n = \log_{10} 70 - \log_{10} 10$
 $n = 0.52$

ADF = 34 MCFD

Q (MCFD)

46 7202

KΣ

$P_c^2 - P_w^2$, THOUSANDS