

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 2-19-88	
Company BTA OIL PRODUCERS		Connection Llano	
Pool Ojo Chiso		Formation Morrow	
Completion Date 2/10/88		Total Depth 13,500	Plug Back TD 13,374
		Elevation 3544' RKB	Farm or Lease Name Chiso, 8711 JV-P
Csg. Size 5"	Wt. 23.2	d 4.044	Set At 13,500'
Perforations: From 12,801 To 12,808		Well No. 1	
Tbg. Size 2-7/8"	Wt. 6.5	d 2.441	Set At 12,693'
Perforations: From 12,820 To 12,823		Unit C Sec. 14 Twp. 22 Rge. 34	
Type Well - Single - Bradenhead - G.G. or G.O. Multiple Single		Packer Set At 10,700'	County Lea
Producing Thru Tubing	Reservoir Temp. °F 183 @ 12,812'	Mean Annual Temp. °F 60	Baro. Press. - P _a 13.2
State N. M.			
L 12,693'	H 12,693'	G _g 0.589	% CO ₂ 0.31
% N ₂ 0.43		% H ₂ S 0.0	Prover
Meter Run 4.026		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.		Temp. °F
SI	4.026" x 1.5000"							60	Pkr	60	SI 220 hrs
1.	4.026" x 1.5000"			622	5	55	2170	54	Pkr		60 min
2.	4.026" x 1.5000"			630	13	69	1810	58	Pkr		60 min
3.	4.026" x 1.5000"			650	18	74	1629	60	Pkr		60 min
4.	4.026" x 1.5000"			670	22.5	75	1390	59	Pkr		60 min
5.											

RATE OF FLOW CALCULATIONS							
NO.	Coefficient (24 Hour)	$\sqrt{h_w P_m}$	Pressure P _m	Flow Temp. Factor Ft.	Gravity Factor F _g	Super Compress. Factor, F _{pv}	Rate of Flow Q, Mcfd
1	10.84	56.36	635.2	1.0050	1.303	1.057	845
2	10.84	91.44	643.2	0.9915	1.303	1.052	1347
3	10.84	109.26	663.2	0.9868	1.303	1.052	1602
4	10.84	123.98	683.2	0.9859	1.303	1.052	1816
5							

NO.	P _r	Temp. °R	T _r	Z	Gas Liquid Hydrocarbon Ratio	319	Mcf/bbl.
1.	0.95	515	1.45	0.895	A.P.I. Gravity of Liquid Hydrocarbons	50.2	Deg.
2.	0.96	529	1.49	0.903	Specific Gravity Separator Gas	0.589	XXXXXXX
3.	0.99	534	1.51	0.904	Specific Gravity Flowing Fluid	XXXXX	
4.	1.02	535	1.51	0.901	Critical Pressure	672	P.S.I.A.
5.					Critical Temperature	354	R

P _c 3584.2 P _c ² 12846			
NO.	P _r ²	P _s	P _s ²
1		2995.2	8971
2		2569.2	6601
3		2371.2	5623
4		2089.2	4365
5			

(1) $\frac{P_r^2}{P_r^2 - P_s^2} = 1.515$

ACF = Q $\left[\frac{P_r^2}{P_r^2 - P_s^2} \right]^n = 2750$

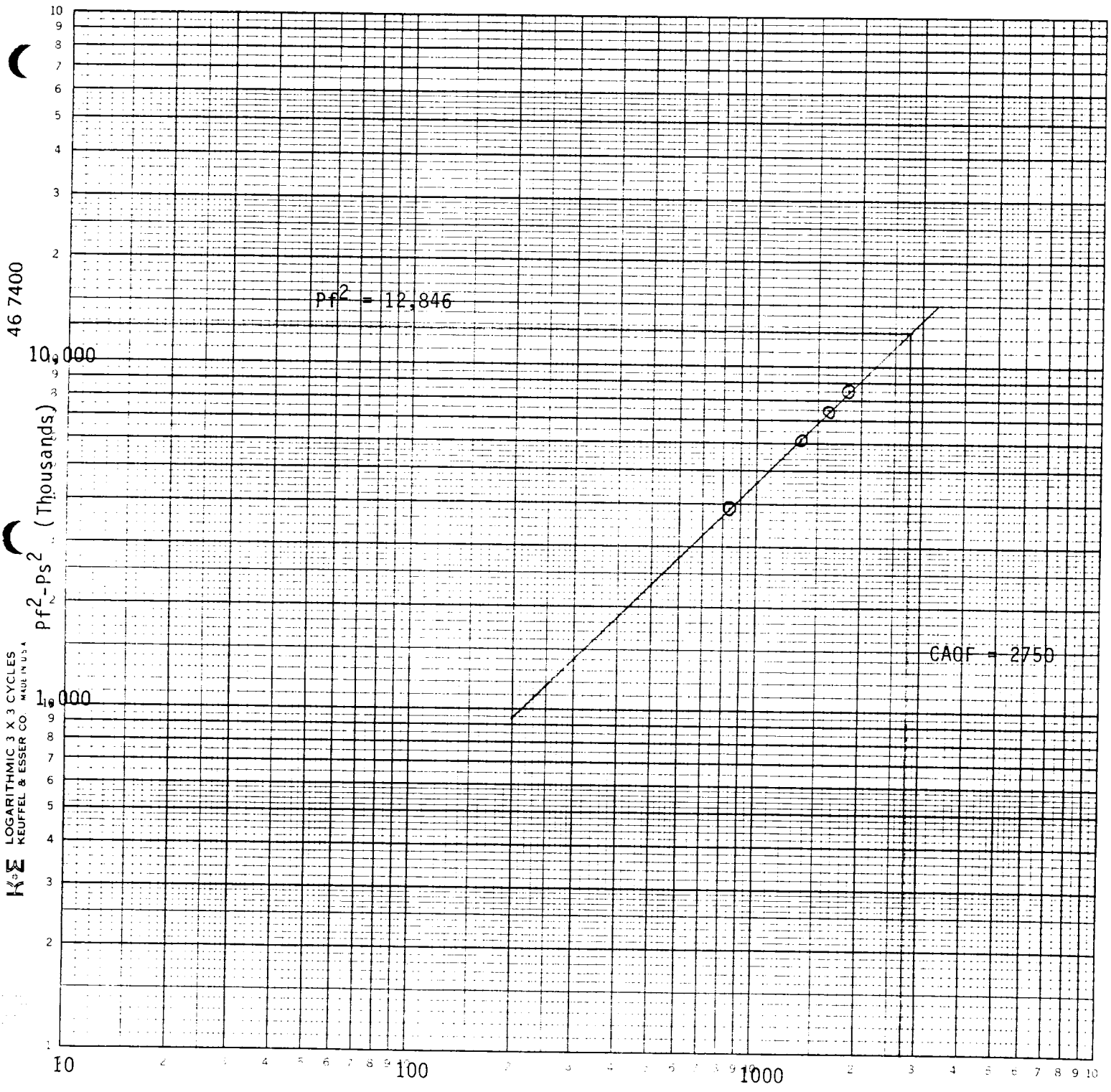
(2) $\left[\frac{P_r^2}{P_r^2 - P_s^2} \right]^n = 1.515$

Absolute Open Flow	2750	Mcf @ 15.025	Angle of Slope @	45°	Slope, n	1.00
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Remarks: Bottom hole pressure measured by Jarrel Services, Inc.

Approved By Commission:	Conducted By: BTA Oil Producers	Calculated By: T. J. Williams	Checked By:
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8711 JV-P CHISO #1
2/19/88



LOGARITHMIC 3 X 3 CYCLES
KEUFFEL & ESSER CO. MADE IN U.S.A.

n = 100
θ = 45
AOF = 2750 MCF

RECEIVED
MAR 10 1988
OCC
ACBBS-CPH