

W MEXICO OIL CONSERVATION CO. DIVISION
MULTIPOINT AND ONE POINT BACK PRESSURE TEST FOR GAS WELL

Form C-122
 Revised 9-1-65

Type Test ☒ Initial ☐ Annual ☐ Special				Test Date 2/05/92		30-025-30733	
Company BTA Oil Producers				Connection BTA Oil Producers			
Pool Antelope Ridge				Formation Morrow		Unit	
Completion Date 01/15/92		Total Depth 13,572		Plug Back TD 12,938		Elevation 3446' RKB	
Farm or Lease Name Ojo Chiso Fed, 8817 JV-1				Well No. 3			
Csg. Size 5"	Wt. 18	d 4.276	Set At 13,568	Perforations: From 12,870 To 12,883			
Tbg. Size 2-7/8"	Wt. 6.5	d 2.441	Set At 12,790	Perforations: From To			
Type Well - Single - Bradenhead - G.G. or G.O. Multiple Single				Packer Set At 11,245		County Lea	
Producing Thru Tubing		Reservoir Temp. °F 185 @ 12876		Mean Annual Temp. °F 80		Baro. Press. - P _a 13.2	
State NM							
L 12,790	H 12,790	G _g .670	% CO ₂ 0.23	% N ₂ 1.44	% 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 1.500						2026		Pkr	40	
1.	4.026 x 1.500			850	3.5	54	1895	47	Pkr		1 hr
2.	4.026 x 1.500			850	14.5	65	1665	48	Pkr		1 hr
3.	4.026 x 1.500			860	35	69	1301	51	Pkr		1 hr
4.	4.026 x 1.500			865	47.5	75	995	52	Pkr		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 F _g	Super Compress. Factor, F _{pv}	Rate of Flow Q, Mcfd
1	10.88	54.97	863.2	1.0060	1.222	1.104	812
2	10.88	111.88	863.2	0.9952	1.222	1.096	1622
3	10.88	174.82	873.2	0.9915	1.222	1.092	2517
4	10.88	204.24	878.2	0.9859	1.222	1.090	2918
5							

NO.	P _t	Temp. °R	T _r	Z	Gas Liquid Hydrocarbon Ratio	55688	Mcf/bbl.
1.	1.292	514	1.356	.821	A.P.I. Gravity of Liquid Hydrocarbons	56 API @ 60	Deg.
2.	1.292	525	1.385	.833	Specific Gravity Separator Gas	.670	XXXXXXX
3.	1.307	529	1.396	.838	Specific Gravity Flowing Fluid	XXXXX	
4.	1.315	535	1.412	.842	Critical Pressure	668	P.S.I.A.
5.					Critical Temperature	379	P.S.I.A.

$P_t = 3038.2$ $P_w^2 = 9230.7$				
NO.	P _t ²	P _w	P _w ²	P _t ² - P _w ²
1		2867.2	8220.8	1010
2		2537.2	10437.3	2793
3		2006.2	4024.8	5206
4		1615.2	2608.7	6622
5				

(1) $\frac{P_t^2}{P_t^2 - P_w^2} = 1.39$

AOF = Q $\left[\frac{P_t^2}{P_t^2 - P_w^2} \right]^n = 3678$

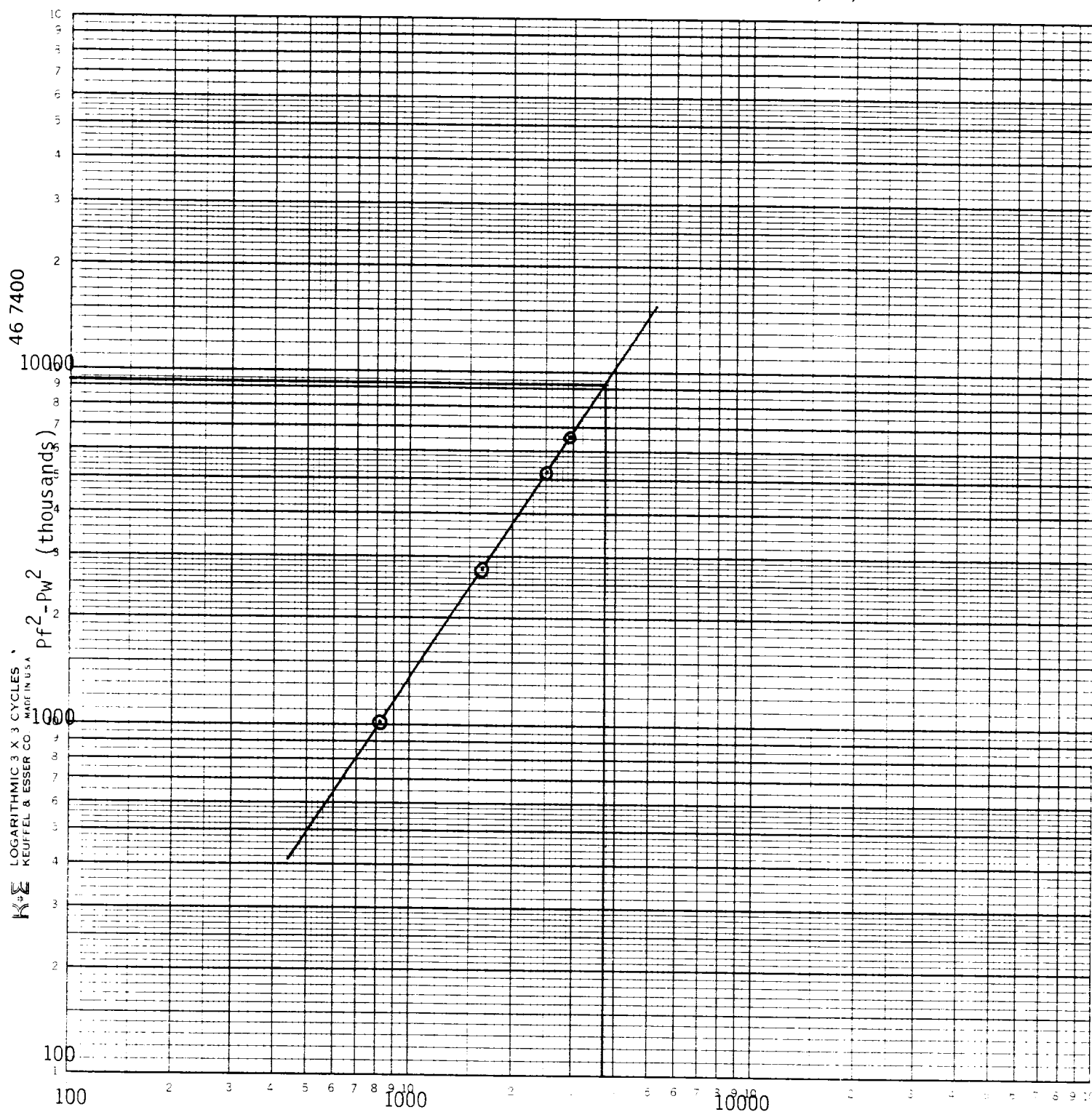
(2) $\left[\frac{P_t^2}{P_t^2 - P_w^2} \right]^n = 1.26$

Absolute Open Flow	3678	Mcf/d @ 15.025	Angle of Slope @	55.8	Slope, n	.697
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Remarks: Bottom Hole Pressure measured by Jarrel Services

Approved By Commission:	Conducted By: BTA Oil Producers	Calculated By: T. J. Williams	Checked By:
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8817 JV-P
Ojo Chiso Fed #3
02/05/92



Flow Rate (MCFD)

AOF = 3678 MCFD
n = 0.697
θ = 55.8