

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 9-23-88	
Company BTA Oil Producers				Connection Llano, Inc.			
Pool Ojo Chiso (Morrow)				Formation Morrow			
Completion Date 9-6-88		Total Depth 13,350'		Plug Back TD 13,271'		Elevation 3478 RKB	
Farm or Lease Name Chiso-C-,8711 JV-P				Well No. 1			
Csq. Size 5"	Wt. 23.08	d 4.044	Set At 13,350'	Perforations: From 12,667' To 12,823'		Unit C	
Tbg. Size 2-7/8"	Wt. 6.5	d 2.441	Set At 12,557'	Perforations: From To		Sec. Twp. Rye. 23 22-S 34-E	
Type Well - Single - Bradenhead - G.G. or G.O. Multiple Single						Packer Set At 10,695'	
Producing Thru Tubing		Reservoir Temp. °F 182 @ 12750		Mean Annual Temp. °F 60°		Baro. Press. - P _g 13.2	
L 12,557		H 12,557	Gg 0.598	% CO ₂ 0.26	% N ₂ 0.51	% H ₂ S 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. hw	Temp. °F	Press. p.s.i.g.	Temp. °F	Press. p.s.i.g.		Temp. °F
SI	4.026" x 2.000"							84	Pkr	84	SI 384 Hr.
1.	4.026" x 2.000"			680	20.5	90	6130	84	Pkr		60 Min.
2.	4.026" x 2.000"			700	30.5	81	6040	75	Pkr		60 Min.
3.	4.026" x 2.000"			740	54	71	5835	75	Pkr		60 Min.
4.	4.026" x 2.000"			770	77	59	5583	74	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 Fg	Super Compress. Factor, Fpv	Rate of Flow Q, Mcfd
1	19.81	119.2	693.2	0.9723	1.293	1.049	3114
2	19.81	147.5	713.2	0.9804	1.293	1.055	3908
3	19.81	201.7	753.2	0.9896	1.293	1.063	5435
4	19.81	245.6	783.2	1.0010	1.293	1.071	6744
5							

NO.	P _t	Temp. °R	T _g	Z	Gas Liquid Hydrocarbon Ratio	Mcf/Abbl.
1.	1.03	550	1.54	.908	A.P.I. Gravity of Liquid Hydrocarbons 48° API @ 60° F	
2.	1.06	541	1.51	.898	Specific Gravity Separator Gas 0.598	XXXXXXX
3.	1.12	531	1.48	.885	Specific Gravity Flowing Fluid XXXXX	
4.	1.17	519	1.45	.872	Critical Pressure 671 P.S.I.A.	P.S.I.A.
5.					Critical Temperature 358 R	R

P _t 8064.2 P _t ² 65031			
NO.	P _t ²	P _w	P _w ²
1		7692.2	59170
2		7602.2	57793
3		7396.2	54704
4		7184.2	51613
5			

$$(1) \frac{P_t^2}{P_t^2 - P_w^2} = 4.85$$

$$AOF = Q \left[\frac{P_t^2}{P_t^2 - P_w^2} \right]^n = 27,738$$

$$(2) \left[\frac{P_t^2}{P_t^2 - P_w^2} \right]^n = 4.113$$

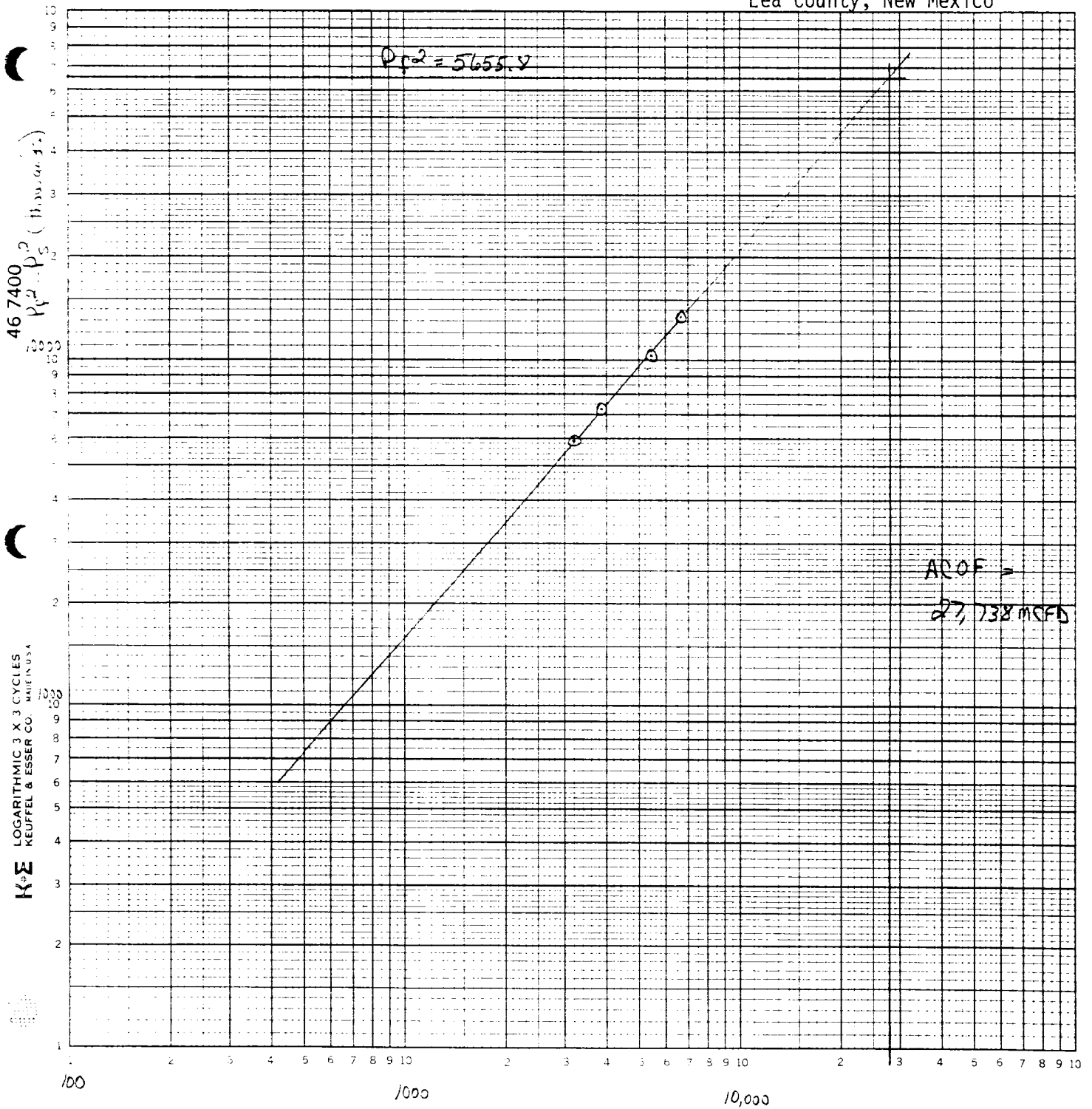
Absolute Open Flow	27,738	Mcf @ 15.025	Angle of Slope @	48.1°	Slope, n	.896
Remarks: 1000						

Orig. Signed by			
Approved By: Geologist	Conducted By: BTA Oil Producers	Calculated By: T.J. Williams	Checked By:

BTA OIL PRODUCERS

8711 JV-P Chiso -C-

-C-Sec.23,T-22-S,R-34-E
Lea County, New Mexico



Q (mcf/d)

AOF = 27,738 mcf/d

$\gamma = 0.6106$

$\theta = 58.6^\circ$