

MEXICO OIL CONSERVATION C ON
MULTIPOINT AND ONE POINT BACK PRESSURE TEST FOR GAS WELL

Form C-122
Revised 9-1-65

Type Test ☒ Initial ☐ Annual ☐ Special				Test Date 12-15-88							
Company BTA Oil Producers			Connection Llano, Inc.								
Pool Ojo Chiso			Formation Morrow		Unit						
Completion Date 12-02-88		Total Depth 13,375'		Plug Back TD 13,350'	Elevation 3467 RKB						
Farm or Lease Name Chiso -D-, 8711 JV-P											
Csg. Size 5"	Wt. 20.63	d 4.059	Set At 13,375'	Perforations: From 12,816' To 12,826'							
Thq. Size 2 7/8"	Wt. 6.5#	d 2.441	Set At 12,494'	Perforations: From To							
Type Well - Single - Bradenhead - G.G. or G.O. Multiple Single				Packer Set At 10,666'	Well No. 1						
Producing Thru Tubing		Reservoir Temp. °F 182° @ 12000	Mean Annual Temp. °F 60°	Baro. Press. - P _a 13.2	Unit Sec. Twp. Rge. K 23 22-S 34-E						
L 12,494'	H 12,494'	Gg 0.654	% CO ₂ 0.29	% N ₂ 1.07	% H ₂ S 0						
Prover				Meter Run 4.026	Taps Flange						
FLOW DATA											
NO.	Prover Line Size	X	Orifice Size	Press. p.s.i.g.	Diff. h _w	Temp. °F	TUBING DATA		CASING DATA		Duration of Flow
							Press. p.s.i.g.	Temp. °F	Press. p.s.i.g.	Temp. °F	
SI	4.026" x 2.000"							36	Pkr	40	SI 312 hr
1.	4.026" x 2.000"			740	4.5	126	6924	38	Pkr		60 min
2.	4.026" x 2.000"			765	12.0	130	6887	45	Pkr		60 min
3.	4.026" x 2.000"			790	23.0	134	6835	45	Pkr		60 min
4.	4.026" x 2.000"			840	46.0	133	6725	50	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	57.70	753.2	0.9420	1.237	1.049	1397				
2	19.81	95.81	778.2	0.9388	1.237	1.049	2312				
3	19.81	134.80	803.2	0.9356	1.237	1.049	3242				
4	19.81	196.57	853.2	0.9364	1.237	1.054	4754				
5											
NO.	P _r	Temp. °R	T _r	Z	Gas Liquid Hydrocarbon Ratio 16523 Mcf/bbl.						
1.	1.12	586	1.57	0.908	A.P.I. Gravity of Liquid Hydrocarbons 48° API @ 60°F						
2.	1.15	590	1.58	0.908	Specific Gravity Separator Gas 0.654						
3.	1.19	594	1.59	0.908	Specific Gravity Flowing Fluid X X X X X						
4.	1.27	593	1.59	0.901	Critical Pressure 674 P.S.I.A.						
5.					Critical Temperature 374 R						
P _r 9126.2 P _r ² 83287											
NO.	P _r ²	P _w	P _w ²	P _r ² - P _w ²							
1		9095.2	82723	564							
2		9069.2	82250	1037							
3		9037.2	81671	1616							
4		8967.2	80411	2876							
5											
Absolute Open Flow 66098 Mcfd @ 15.025					Angle of Slope @ 51.97°		Slope, n .782				
Remarks:											
JAN 09 1989											
Approved By Commission:		Conducted By:		Calculated By:		Checked By:					
ORIGINAL SIGNED BY JERRY SEXTON		BTA Oil Producers		T. J. Williams							
DISTRICT I SUPERVISOR											

46 7400

$P_f^2 - P_w^2$ (thousands)

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

$$Pr^2 = 83287$$

$$ACOF = 66,098 \text{ MCFD}$$

$$\begin{aligned} AOF &= 66,098 \text{ MCFD} \\ n &= .782 \\ \theta &= 51.97^\circ \end{aligned}$$

Q (MCFD)

