

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 5-11-90	
Company BTA OIL PRODUCERS			Connection Llano, Inc. (BTA)		
Pool Red Hills			Formation Wolfcamp		Unit
Completion Date 4-26-90		Total Depth 13,900'		Plug Back TD 13,850'	
Elevation 3,283' RKB		Farm or Lease Name Mesa -B-, 8105 JV-P			
Csg. Size 5	Wt. 20.63	d 4.184	Set At 13,900	Perforations: From 12,952 To 13,770	
Thg. Size 2 7/8	Wt. 6.5	d 2.441	Set At 12,875	Perforations: From To	
Type Well - Single - Bradenhead - G.G. or G.O. Multiple Single				Packer Set At 12,222	
Producing Thru Tubing		Reservoir Temp. °F 188°F @ 13,361'		Mean Annual Temp. °F 60°	
Baro. Press. - P _a 13.2		County Lea			
L 12875		H 12875		G _g 0.648	
% CO ₂ 0.57		% N ₂ 0.58		% H ₂ S 0.0	
Prover 4.026		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	1.000								
1.	4.026	X	1.000	150	18	70	200	70	Pkr	50	
2.											24
3.											
4.											
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	4.753	54.20	163.2	0.9905	1.242	1.015	322
2.							
3.							
4.							
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.	.24	530	1.41	.970	28364		59° @ 60° F		.648		XXXXXX		670		375	
2.																
3.																
4.																
5.																

P _c 5413.2 P _c ² 29303				
NO.	P _r ²	P _w	P _w ²	P _c ² - P _w ²
1		766	587	28716
2				
3				
4				
5				

$$(1) \frac{P_c^2}{P_c^2 - P_w^2} = \frac{29303}{28716}$$

$$AOF = Q \left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 328$$

$$(2) \left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 1.02$$

Absolute Open Flow 328 Mcfd @ 15.025		Angle of Slope 45°		Slope, n 1.00	
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Remarks: Well would not stabilize during 4 Pt test; used average gas rate over 24 hr period for single point test & assumed Slope of 1.0

MAY 25 1990

Approved By Commission: DISTRICT SUPERVISOR	Conducted By: BTA OIL PRODUCERS	Calculated By: T. J. WILLIAMS	Checked By:
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