

NE MEXICO OIL CONSERVATION COMMISS

MULTIPOINT AND ONE POINT BACK PRESSURE TEST FOR GAS WELL

Form C-122
Revised 9-1-65

DEC 1 1971

Type Test ☐ Initial ☒ Annual ☐ Special		Test Date 11-15-71	
Company Morris R. Antweil		Connection Llano, Inc.	
Pool South Carlsbad		Formation Morrow	
Completion Date 4-1-71		Total Depth 11818'	Plug Back TD 11759'
Elevation 3206' KB		Farm or Lease Name Little Jewel	
Chg. Size 4 1/2"	Wt. 23.0	d 6.366	Set At 10703'
Thg. Size 2 3/8"	Wt. 4.70	d 1.995	Set At 11390'
Type Well - Single - Brdenhead - G.G. or G.O. Multiple G.G. Multiple		Packer Set At 11390'	County Eddy
Producing Thru Tubing	Reservoir Temp. °F 195 @ 11370'	Mean Annual Temp. °F 60	Baro. Press. - P _a 13.2
L 11455'	H -	G _g 0.569	% CO ₂ 0.20
		% N ₂ 0.12	% H ₂ S 0.00
		Prover X	Meter Run F
FLOW DATA		TUBING DATA	
NO.	Prover Line Size	X	Orifice Size
SI			
1.	4 10/64	2.000	500
2.	4 11/64	2.000	510
3.	4 13/64	2.000	520
4.	4 15/64	2.000	520
5.			
RATE OF FLOW CALCULATIONS			
NO.	Coefficient (24 Hour)	$\sqrt{h_w P_m}$	Pressure P _m
1	19.81	81.69	513.2
2	19.81	109.70	523.2
3	19.81	138.55	533.2
4	19.81	163.28	533.2
5			
Gas Liquid Hydrocarbon Ratio		Dry gas	
A.P.I. Gravity of Liquid Hydrocarbons		-	
Specific Gravity Separator Gas		0.569	
Specific Gravity Flowing Fluid		X X X X X	
Critical Pressure		676 P.S.I.A.	
Critical Temperature		337 R	
NO.	P _r	Temp. °R	T _r
1	0.76	524	1.55
2	0.77	519	1.54
3	0.79	519	1.54
4	0.79	519	1.54
5			
P _r 4803.2		P _w 23070.7	
NO.	P _r	P _w	P _r - P _w
1	-	4688.2	21972.2
2	-	4623.2	21374.0
3	-	4540.2	20613.4
4	-	4457.2	19866.6
5			
(1) $\frac{P_r^2}{P_r^2 - P_w^2} = 9.389$		(2) $\left[\frac{P_r^2}{P_r^2 - P_w^2} \right]^n = 4.170$	
ACF = 0		$\left[\frac{P_r^2}{P_r^2 - P_w^2} \right]^n = 15769$	
Absolute Flow 15750 Mcfd @ 15.025		Angle of Slope 57° 27'	
Slope, n 0.638			
Remarks: * BHP @ (-8249') 11455' used for pressure calculations			
Approved By Commission:		Conducted By:	
COLEMAN PET.ENG.		JOE A. COLEMAN	
Calculated By:		Checked By:	
JOE A. COLEMAN		JOE A. COLEMAN	