

NE MEXICO OIL CONSERVATION COMMISSION
MULTIPOINT AND ONE POINT BACK PRESSURE TEST FOR GAS WELL

Form C-122
Revised 9-1-65

RECEIVED

DEC 1 1971

Type Test ☐ Initial ☒ Annual ☐ Special		Test Date 11-16-71	
Company Morris R. Antweil		Connection Llano, Inc.	
Pool South Carlsbad <i>Strawn</i>		Formation Strawn	
Completion Date 4-1-71		Total Depth 11818'	Plug Back TD 11759'
Elevation 3206'KB		Farm or Lease Name Little Jewel <i>com</i>	
Csg. Size 4 1/2"	Wt. 23	d 6.366	Set At 10703'
Perforations: From 10362' To 10440'	Well No. 1 UT		
Tbg. Size 2 3/8"	Wt. 4.60	d 1.995	Set At 10452'
Perforations: From Open To ended	Unit Sec. Twp. Rge. F 31 22s 27e		
Type Well - Single - Bradenhead - G.G. or G.O. Multiple G.G. Multiple		Packer Set At 11390'	County Eddy
Producing Thru Tubing	Reservoir Temp. °F 173 @ 10401'	Mean Annual Temp. °F 60	Baro. Press. - P _a 13.2
State New Mexico		Prover Meter Run X	
L 10401'	H -	G _g 0.644	% CO ₂ 0.32
% N ₂ 0.56	% H ₂ S 0.00	Taps F	

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. DWT	Temp. °F	Press. p.s.i.g.	Temp. °F	Duration of Flow
SI							3955				48.0 hrs
1.	4 9/64	1.750	540	14	68	3930	77	PACKER			1.0
2.	4 10/64	1.750	550	20	65	3920	78	-	-	-	1.0
3.	4 12/64	1.750	560	51	60	3855	79	-	-	-	1.0
4.	4 14/64	1.750	560	72	65	3810	77	-	-	-	1.0
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	14.93	88.01	553.2	0.9924	1.246	1.052	1707.3
2	14.93	106.13	563.2	0.9952	1.246	1.052	2067.0
3	14.93	170.97	573.2	1.0000	1.246	1.057	3361.8
4	14.93	203.15	573.2	0.9952	1.246	1.054	3964.0
5.							

NO.	P _t	Temp. °R	T _t	Z	Gas Liquid Hydrocarbon Ratio	Mcf/bbl.
1	0.82	528	1.43	0.904	21.412	
2	0.84	525	1.43	0.903	56.9	
3	0.85	520	1.41	0.895		
4	0.85	525	1.43	0.900		
5						

NO.	P _t	P _w *	P _w ²	P _c ² - P _w ²
1	-	5181.2	26844.8	155.7
2	-	5175.2	26782.7	217.8
3	-	5142.2	26442.2	558.3
4	-	5122.2	26236.9	763.6
5				

(1) $\frac{P_c^2}{P_c^2 - P_w^2} = 35.36$ (2) $\left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 6.50$

AOF = Q $\left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 25766$

Absolute Open Flow	25750	Mcf/d @ 15.025	Angle of Slope	62° 18'	Slope, n	0.525
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Remarks: * BHP @ (-7195') 10401' used for pressure calculations

Approved By Commission:	Conducted By: COLEMAN PET.ENG.	Calculated By: JOE A. COLEMAN	Checked By: JOE A. COLEMAN
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