

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

RECEIVED

DEC 20 1976

Type Test ☒ Initial ☐ Annual ☐ Special				Test Date 11-15-76		O. C. C. ARTESIA, OFFICE	
Company Llano, Inc.				Connection Transwestern Pipeline Company			
Pool Atoka Penn (Gas)				Formation Morrow		Unit	
Completion Date 9-16-76		Total Depth 9303		Plug Back TD 9265		Elevation 3307.4 GL	
Csg. Size 4 1/2		Wt. 11.6		Set At 4.000		Perforations: 9090 9094 From 9098 To 9110	
Tbg. Size 2-3/8		Wt. 4.7		Set At 1.995		Perforations: From Open Ended To	
Type Well - Single - Prodenhead - G.C. or G.O. Multiple Single				Packer Set At 8899		Well No. No. 1	
Producing Thru TBG		Reservoir Temp. °F 162 @ 9291		Mean Annual Temp. °F 60		State New Mexico	
L 9090		H 9090		Gg .624		% CO ₂ 0.47	
				% N ₂ 0.49		% H ₂ S -0-	
				Prover -		Meter Run 4	
						Taps Flg.	

FLOW DATA						TUBING DATA		CASING DATA		Duration of Flow
NO.	Prover Line Size	Orifice Size	Press. p.s.i.g. PM	Diff. h _w	Temp. °F TM	Press. p.s.i.g.	Temp. °F	Press. p.s.i.g.	Temp. °F	
SI	SI					767		PKR		49
1.	4.0 x 1.250		470	9	60	605	72	PKR		1
2.	4.0 x 1.250		470	12	65	506	66	PKR		1 1/2
3.	4.0 x 1.250		475	11.5	65	484	64	PKR		3/4
4.	4.0 x 1.250		470	12.5	67	440	63	PKR		1 1/2
5.										

NO.	Coefficient (24 Hour)	$\sqrt{h_w P_m}$	Pressure P _m	Flow Temp. Factor F _t	Gravity Factor F _g	Super Compress. Factor F _{sp}	Rate of Flow Q, Mcfd
1	7.469	65.95	483.2	1.0000	1.266	1.047	653
2	7.469	76.15	483.2	.9952	1.266	1.045	749
3	7.469	74.93	488.2	.9952	1.266	1.046	737
4	7.469	77.72	483.2	.9933	1.266	1.044	762
5							

NO.	P _r	Temp. °R	T _r	Z	Gas Liquid Hydrocarbon Ratio	Mcf/bbl.
1.	.72	520	1.42	.913	466	
2.	.72	525	1.43	.915	57 @ 60°	
3.	.73	525	1.43	.914	Specific Gravity Separator Gas	624
4.	.72	527	1.44	.917	Specific Gravity Flowing Fluid	XXXXXX
5.					Critical Pressure	673
					Critical Temperature	367

NO.	P _c	P _w	P _w ²	P _c ² - P _w ²	(1) $\frac{P_c^2}{P_c^2 - P_w^2} =$	(2) $\left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n =$
1	382.2		395.4	384.8	1.582	1.271
2	269.6		287.2	493.0		
3	247.2		264.3	515.9		
4	205.4		223.7	556.5		
5						

Absolute Open Flow		860	Mcf @ 15.025	Angle of Slope	62.4°	Slope, n	.523
Remarks:							

Approved by Commission	Conducted By:	Calculated By:	Checked By:
	Steve Collins	Steve Collins	Al Klaar