

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

Form C-122
Revised 9-6-65

RECEIVED

Type Test ☒ Initial ☐ Annual ☐ Special				Test Date 11-26-79		DEC 3 - 1979	
Company Southland Royalty Company				Connection El Paso Nat. Gas			
Pool South Millman Morrow				Formation Morrow		Unit O.C.C. ARTESIA, OFFICE	
Completion Date 10 19 78		Total Depth 11340		Plug Back To 111100IL CONSERVATION DIVISION		Elevation 9493	
Cag. Size 4.500		Wt. 11.6		Set At 4.000		11150	
Perforations: From 10748		To 11062		Well No. 2		State 19 Conn.	
Tbg. Size 2.375		Wt. 4.7		Set At 1.995		10650	
Perforations: From 0		To 0		Unit N 19		Sec. 19	
Type Well - Single - Bradenhead - G.C. or G.O. Multiple Single		Packer Set At 10650		County Fido		State New Mexico	
Producing Thru Tbg		Reservoir Temp. °F 168 @ 10905		Mean Annual Temp. °F 60.0		Base Press. - P _s 13.2	
L 10905		H 10905		G _g 0.636		% CO ₂ 0.74	
				% N ₂ 0.57		% H ₂ S 0.0	
Prover 0		Meter Run 4.0		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
1	4.03 x 1.250			518	7.6	84	2645	66	0	0	1.0
2	4.03 x 1.250			525	16.0	80	2335	66	0	0	1.0
3	4.02 x 1.250			533	31.0	76	1870	67	0	0	1.0
4	4.02 x 1.250			540	44.0	80	1220	67	0	0	1.0
5											

RATE OF FLOW CALCULATIONS							
NO.	Coefficient (24 Hours)	$\sqrt{h_w P_m}$	Pressure P _m	Flow Temp. Factor F _t	Gravity Factor F _g	Super Compress. Factor, F _{sp}	Rate of Flow Q, Mcfd
1	7.47	63.54	531.2	0.9777	1.2539	1.0437	607
2	7.47	92.80	538.2	0.9813	1.2539	1.0457	892
3	7.47	130.12	546.2	0.9850	1.2539	1.0477	1258
4	7.47	156.02	553.2	0.9813	1.2539	1.0469	1501
5							

NO.	R	Temp. °R	T	Z	Gas Liquid Hydrocarbon Ratio	Mcf/bbl.
1	0.79	544	1.48	0.918	0	
2	0.80	540	1.47	0.915	54.5	
3	0.81	536	1.46	0.911	0.636	XXXXXXX
4	0.82	540	1.47	0.912	0.636	XXXXXXX
5						

NO.	P ₁ ²	R ₁	R ₁ ²	R ₁ ² - R ₂ ²	(1) $\frac{P_1^2}{R_1^2 - R_2^2} =$	(2) $\left[\frac{R_1^2}{R_1^2 - R_2^2} \right]^n =$
1	7066	2654	7043	2218	1.2048	1.1445
2	5514	2347	5509	3752		
3	3546	1889	3567	5694		
4	1521	1255	1574	7687		
5						

Absolute Open Flow		1718	Mcf @ 15.025	Angle of Slope @	54.1	Slope, n	0.725
Remarks:							
 OIL CONSERVATION DIVISION Approved By Commission: B.J. TESTING Conducted By: SANTA FE Calculated By: D. CRAIG Checked By: D. CRAIG							