

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

Form C-122
Revised 9-1-65

Type Test ☐ Initial ☐ Annual ☒ Special		Test Date 1-9-74	
Company El Paso Natural Gas Company		Connection El Paso Natural Gas Company ARTESIA, OFFICE	
Pool Rocky Arroyo		Formation Morrow	
Completion Date 6-29-72		Total Depth 8968	
Casing Size 5 1/2		Set At 8968	
Perforations: From 9011 To 9023		Well No. 1	
Teg. Size 2 3/8		Set At 8968	
Perforations: From To		Unit Sec. Twp. R1c C 17 22 22	
Type well - Simple - Broadhead - G.O. or G.O. Multiple Single		Packer Set At 8968	
Producing Thru Top		Reservoir Temp. °F 168 @ 8968	
Mean Annual Temp. °F 13.2		State New Mexico	
L 8968 H 8968 G 658		% CO ₂ % N ₂ % H ₂ S Prover	
Meter Run 11"		Taps Flg.	

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							2000				48 Hr.
1.	4 x	1.250		410	2.3	62	1822	43			1 Hr.
2.	4 x	1.250		415	3.6	71	1779	45			1 Hr.
3.	4 x	1.250		420	6.3	74	1697	47			1 Hr.
4.	4 x	1.250		425	10.9	82	1557	50			1 Hr.
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 F _{cv}	Rate of Flow Q, Mscf/d
1	7.469	31.20	423.2	.9931	1.233	1.023	293
2	7.469	39.26	423.2	.9895	1.233	1.022	366
3	7.469	52.24	433.2	.9868	1.233	1.021	485
4	7.469	69.11	438.2	.9795	1.233	1.020	636
5							

NO.	P _r	Temp. °R	T _r	Z	Gas Liquid Hydrocarbon Ratio	Mcf/bbl.
1	.63	622	1.65	.956	A.P.I. Gravity of Liquid Hydrocarbons	Deq.
2	.64	631	1.67	.958	Specific Gravity Separator Gas	X X X X X X X X
3	.65	634	1.68	.959	Specific Gravity Flowing Fluid	X X X X X
4	.65	642	1.70	.961	Critical Pressure 670	P.S.I.A. P.S.I.A.
5					Critical Temperature 378	R R

$R_e^2 = 3.2$ $R_w^2 = 4052$		(1) $\frac{R_e^2}{R_e^2 - R_w^2} = 2.571$		(2) $\left[\frac{R_e^2}{R_e^2 - R_w^2} \right]^n = 2.285$	
NO.	P _r ²	P _w ²	R _e ²	R _e ² - R _w ²	
1			3370.3	682.7	
2			3215.6	837.4	
3			2931.2	1121.8	
4			2476.6	1576.4	
5					

Absolute Open Flow 1.453		Mscf @ 15.025		Angle of Slope 48.8		Slope, n .875	
Remarks: No fluid made during test.							
Approved by Commission		Conducted By: Rick Pagan		Calculated By: Rick Pagan		Checked By:	