

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

GAS RECEIVED BY

AUG -6 1986

Type Test 4-POINT ☒ Initial ☐ Annual ☐ Special				Test Date 12-18-85		O. C. D. ARTESIA, OFFICE	
Company THE EASTLAND OIL COMPANY				Connection TO AIR			
Pool <i>N. Laguna Salada</i> Wildcat Atoka				Formation ATOKA		Unit 320 Acres	
Completion Date 12-17-85		Total Depth 12119'		Plug Back TD 12119'		Elevation 3003	
Csg. Size 7.0		Set At 12119'		Perforations: From 11990 To 12014		Well No. 2	
Trq. Size 2.375		Set At 11825		Perforations: From To		Unit Sec. Twp. Rge. G 5 23S 29E	
Type Well - Single - Prodenhead - G.G. or G.O. Multiple SINGLE				Packer Set At 11728		County EDDY	
Producing Thru TUBING		Reservoir Temp. °F 192 @ 12002		Mean Annual Temp. °F 60°		Baro. Press. - P _a 13.2	
L 12002		H 12002		G _g 0.592		% CO ₂ 0.63	
				% N ₂ 0.87		% H ₂ S 0	
				Prover 0		Meter Run 4.0	
						Turn 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	
SI	4.03	X	1.500	260	4.0	112	5540	72			24.0
1.	4.03	X	1.500	260	8.0	124	5370	70			1.0
2.	4.03	X	1.500	265	16.0	124	4940	73			1.0
3.	4.03	X	1.500	270	30.0	122	4560	74			1.0
4.											
5.											

RATE OF FLOW CALCULATIONS							
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 _{pv}	Rate of Flow O, Mc/d
1	10.84	33.06	273.2	0.9535	1.2997	1.0158	451
2	10.84	46.75	273.2	0.9436	1.2997	1.0145	631
3	10.84	66.72	278.2	0.9436	1.2997	1.0147	900
4	10.84	92.17	283.2	0.9452	1.2997	1.0152	1246
5.							

NO.	P _t	Temp. °R	T _r	Z	Gas Liquid Hydrocarbon Ratio	Mcf/bbl.
1.	0.41	572	1.62	0.969	0	
2.	0.41	584	1.66	0.972	0	
3.	0.41	584	1.66	0.971		
4.	0.42	582	1.65	0.970		
5.						

P _c 5540.8 P _c ² 30700				(1) $\frac{P_c^2}{P_c^2 - P_w^2} = 3.1095$		(2) $\left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 2.2125$	
NO.	P _t ²	P _w ²	P _w ²	P _c ² - P _w ²	AOF = Q $\left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 2756.7$		
1		5374	28881	1820			
2		5201	27047	3653			
3		4942	24425	6275			
4		4564	20827	9873			
5							

Absolute Open Flow 2757 Mc/d @ 15.025 Angle of Slope 55.0 Slope, n 0.700

Remarks:

Approved By: _____ Conducted By: _____ Calculated By: _____ Checked By: _____