

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

Form C-122
Revised 9-1-65

RECEIVED

Type Test ☒ Initial ☐ Annual ☐ Special						Test Date 9-26-73		NOV - 6 1973	
Company Exxon Company, U.S.A.				Connection None				Unit O.C.C.	
Pool South Carlsbad Marrow				Formation Morrow				Unit ARTESIA, OFFICE	
Completion Date 9-28-73		Total Depth 11,881		Plug Back TD 11,784		Elevation 3307 KB		Farm or Lease Name S. Carlsbad Gas Com	
Csg. Size 5-1/2	Wt. 23	d 4.670	Set At 11,867	Perforations: From 11,381 To 11,753		Well No. 1			
Thq. Size 2-7/8	Wt. 6.4	d 2.441	Set At 11,318	Perforations: From Open To Ended		Unit Sec. Twp. Rge. J 27 23S 26E			
Type Well - Single - Drdthead - G.G. or G.O. Multiple G. G. Dual						Packer Set At 11,318		County Eddy	
Producing Thru Tubing		Reservoir Temp. °F 176 @ 11,840		Mean Annual Temp. °F 60		Baro. Press. - P _a 15.0		State New Mexico	
L 11,500	H 11,500	G _g 0.582	% CO ₂ 1.20	% N ₂ 0.93	% H ₂ S 0.00	Prover -	Meter Run 4.026	Taps F	

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							3773	60	4460	60	40 Hrs
1.	4		2.00	360	6	90	2668	65	4463	65	1 Hr
2.	4		2.00	370	11	90	2211	70	4472	70	1 Hr
3.	4		2.00	385	35	95	1599	69	4478	69	1 Hr
4.	4		2.00	410	50	96	1147	73	4482	73	1 Hr
5.											

NO.	Coefficient (24 Hour)	$\sqrt{h_w P_m}$	Pressure P _m	Flow Temp. Factor Ft	Gravity Factor F _g	Super Compress. Factor, F _{pv}	Rate of Flow Q, Mcfd
1	20210.82	47.43	375	0.9723	1.3131	1.024	1261
2	20210.82	67.08	385	0.9723	1.3131	1.025	1731
3	20210.82	118.3	400	0.9680	1.3131	1.025	3132
4	20210.82	145.8	425	0.9671	1.3131	1.026	3861
5							

NO.	P _f	Temp. °R	T _f	Z	Gas Liquid Hydrocarbon Ratio	Dry Gas	Mcf/bbl.
1	0.56	550	1.56	.954			
2	0.57	550	1.56	.952			
3	0.60	555	1.57	.952			
4	0.63	556	1.58	.950			
5							

NO.	P _f ²	P _w	P _w ²	P _f 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		3426	11736	11206	1.140	1.140
2		2866	8215	14727		
3		2161	4671	18270		
4		1676	2809	20132		
5						

Absolute Open Flow		4400	Mcf/d @ 15.025	Angle of Slope @	45°	Slope, n	1 000
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Remarks: Surface pressures corrected to BHP @ midperf (11,500) used for calculations

Approved By Commission	Conducted By: <i>R. B. Brand</i>	Calculated By: J.G. Perser	Checked By: K.W. Bolt, Jr.
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