

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

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Form C-122
Revised 9-1-65

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Type Test ☒ Initial ☐ Annual ☐ Special						Test Date 4/15/74		APR 26 1974	
Company Cities Service Oil Company				Connection None				Unit O. C. C.	
Port Under Strawn				Formation Strawn				ARTESIA, OFFICE	
Completion Date 4/15/74		Total Depth 11570		Plug Back TD 11527		Elevation 3136 GL		Farm or Lease Name Tracy A Com.	
Csg. Size 5 1/8	Wt. 17.20	d 4.892	Set At 4.778	Perforations: From 10195 To 10234		Well No. 1			
Tbg. Size 2 7/8	Wt. 6.4	d 2.441	Set At 11088	Perforations: From To		Unit C		Sec. 33	Twp. 21
Type Well - Single - Bradenhead - G.G. or G.O. Multiple G. G. Dual				Packer Set At 11047 - 10084		County Eddy		State New Mexico	
Producing Thru Tbg.		Reservoir Temp. °F 175 @ 10150		Mean Annual Temp. °F		Baro. Press. - P _a			
L *10,084	H 10,084	G _g .648	% CO ₂	% N ₂	% H ₂ S .03 Gr.	Prover	Meter Run 3"	Taps Flr.	

FLOW DATA						TUBING DATA		CASING DATA		Duration of Flow	
NO.	Prover Line Size	X	Orifice Size	Press. p.s.i.g.	Diff. hw	Temp. °F	Press. p.s.i.g.	Temp. °F	Press. p.s.i.g.	Temp. °F	of Flow
SI							3915				
1.	3	x	1.750	775	3.8	80	3856	70			30 Min.
2.	3	x	1.750	780	9.8	64	3776	71			60 Min.
3.	3	x	1.750	780	19.8	66	3673	74			60 Min.
4.	3	x	1.750	780	35.0	60	3538	73			45 Min.
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, Fpv	Rate of Flow Q, Mcfd
1	15.61	54.73	788.2	.9813	1.242	1.074	1113
2	15.61	88.17	793.2	.9962	1.242	1.083	1848
3	15.61	125.32	793.2	.9943	1.242	1.083	2616
4	15.61	166.62	793.2	1.000	1.242	1.086	3505
5							

NO.	P _r	Temp. °R	T _r	Z	Gas Liquid Hydrocarbon Ratio	Met/bbl.
1.	1.18	540	1.44	.867	63.74	
2.	1.18	524	1.40	.852	54.5 @ 60	
3.	1.18	526	1.40	.852		
4.	1.18	520	1.39	.848		
5.						

NO.	P _r	P _w	P _r ²	P _w ²	P _r ² - P _w ²	(1) $\frac{P_r^2}{P_r^2 - P_w^2} = 5.785$	(2) $\left[\frac{P_r^2}{P_r^2 - P_w^2} \right]^n = 3.208$
1		3871.4	14987.7	143.0			
2		3795.7	14407.3	1023.4			
3		3698.6	13679.6	1751.1			
4		3572.6	12763.5	2667.3			
5							

Absolute Open Flow 11,252 Mcfd @ 15.025				Angle of Slope @ 56.4		Slope, n .664	
Remarks: * Crossover at this point for both zones, which acts as a bottom hole choke, therefore the friction was measured from this point to surface. 5 Bbl. distillate							
Approved By Commission:		Conducted By: Reggie Reston		Calculated By: Rick Pagan		Checked By:	