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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 4/15/74		APR 26 1974	
Company Cities Service Oil Company				Connection April 22, 1974		D.C.C.	
Pool Undes. La Brea Morrow				Formation Morrow		Unit ARTESIA, OFFICE	
Completion Date 4/15/74		Total Depth 11570		Plug Back TD 11527		Elevation 3136 GL	
Csg. Size 5 1/2		Wt. 17 & 20		Set At 11570		Perforations: From 11168 To 11478	
Tbg. Size 2 7/8		Wt. 6.4		Set At 11088		Perforations: From To	
Type Well - Single - Bradenhead - G.G. or G.O. Multiple G. G. Dual				Packer Set At 11047 - 10084		County Eddy	
Producing Thru Tbg.		Reservoir Temp. °F 184 @ 11566		Mean Annual Temp. °F		Baro. Press. - P _g New Mexico	
L *10,084		H 10,084		G _g .606		% CO ₂ % N ₂ % H ₂ S Prover	
						Meter Run 3	
						Taps Flg.	

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.	
SI									3657	
1.	3 x	1.750		780	8.2	74			3532	74
2.	3 x	1.750		780	17.8	66			3458	74
3.	3 x	1.750		785	37.0	68			3281	74
4.	3 x	1.750		790	66.0	56			3020	74
5.										

RATE OF FLOW CALCULATIONS							
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	15.61	80.65	793.2	.9868	1.285	1.064	1.699
2	15.61	118.82	793.2	.9943	1.285	1.068	2.531
3	15.61	171.85	798.2	.9924	1.285	1.068	3.654
4	15.61	230.24	803.2	1.004	1.285	1.074	4.080
5							

NO.	P _t	Temp. °R	T _r	Z	Gas Liquid Hydrocarbon Ratio	A.P.I. Gravity of Liquid Hydrocarbons	Specific Gravity Separator Gas	Specific Gravity Flowing Fluid	Critical Pressure	Critical Temperature
1	1.18	534	1.49	.883	178.67	50 @ 60	.606	X X X X X	671	358
2	1.18	526	1.47	.877				X X X X X	671	365
3	1.19	528	1.47	.876				X X X X X	671	365
4	1.20	516	1.44	.857				X X X X X	671	365
5										

NO.	P _t	P _w	P _w ²	P _t ² - P _w ²	(1) $\frac{P_t^2}{P_t^2 - P_w^2} =$	(2) $\left[\frac{P_t^2}{P_t^2 - P_w^2} \right]^n =$
1	3545.0	12573.4	807.0		3.161	2.025
2	2471.4	12050.6	1419.3			
3	2295.3	10859.0	2611.4			
4	3034.7	9209.4	4261.0			
5						

Absolute Open Flow				Angle of Slope		Slope, n	
10,085 Mcfd @ 15.025				58.5		.613	

Remarks: * Crossover at this point for both zones which acts as a bottom hole choke, therefore the frictions were measured from this point to surface.

Approved By Commission:	Conducted By: Reggie Reston	Calculated By: Reggie Reston	Checked By:
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