

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 12-14-81		DEC 21 1981	
Company Gulf Oil Corp. Exp. & Prod.				Connection EPNG		O. C. D.	
Pool Morrow				Formation Morrow		Unit ARTESIA, OFFICE	
Completion Date 11-23-81		Total Length 10957		Plug back To 10530		Elevation GL 3521	
Csg. Size 5 1/2		Wt. 17		Set At 10957		Perforations: From 10322 To 10464	
Trq. Size 2 3/8		Wt. 10265		Set At 10265		Perforations: To	
Type Well - Single - Bradenhead - G.G. or G.O. Multiple Single Gas				Packer Set At 10265		County Eddy	
Producing Thru Tbg.		Reservoir Temp. °F 176 @ 10265		Mean Annual Temp. °F 60		Baro. Press. - P _a 13.2	
L 10265		H 10265		G _g .7413		% CO ₂ .605	
				% N ₂ 3.035		% H ₂ S	
				Prover		Meter Run 4"	
						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							3350				72 hrs.
1.	4 X 1.000			625	2.0	70	2850				1 hr.
2.	4 X 1.000			620	7.8	98	2795				1 hr.
3.	4 X 1.000			620	13.0	94	2550				1 hr.
4.	4 X 1.000			610	26.0	86	2150				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 F _g	Super Compress. Factor, F _{pv}	Rate of Flow Q, Mcfd
1	4.753	35.73	638.2	.9905	1.162	1.080	211
2	4.753	70.28	633.2	.9653	1.162	1.064	399
3	4.753	90.73	633.2	.9688	1.162	1.066	517
4	4.753	127.29	623.2	.9759	1.162	1.069	733
5.							

NO.	P _r	Temp. °R	T _r	Z	Gas Liquid Hydrocarbon Ratio	Mcf/bbl.
1.	.96	530	1.34	.858	14.352	
2.	.96	558	1.41	.883	53 @ 60	
3.	.96	554	1.40	.880		
4.	.94	546	1.38	.875		
5.						

A.P.I. Gravity of Liquid Hydrocarbons				Specific Gravity Separator Gas		Specific Gravity Flowing Fluid		Critical Pressure		Critical Temperature	
.7413				.938		.938		662		396	
								P.S.I.A.		R	
								661		471	

NO.	P _r	P _w	P _w ²	P _r ² - P _w ²	(1) $\frac{P_r^2}{P_r^2 - P_w^2} =$	(2) $\left[\frac{P_r^2}{P_r^2 - P_w^2} \right]^n =$
1		2863.5	8199.5	3111.6	1.710	1.688
2		2809.2	7891.7	3419.4		
3		2565.0	6579.1	4732.0		
4		2167.0	4695.7	6615.4		
5						

Absolute Open Flow				Angle of Slope @		Slope, n	
1,237				45.75°		.976	

Remarks: Produced 5.4 bbls. of distillate during the test							
Approved By Commission:		Conducted By:		Calculated By:		Checked By:	
		Davis Services, Inc.		Rick Pagan			