

122 file

Type Test ☒ Initial ☐ Annual ☐ Special		Test Date 10-14-77		RECEIVED							
Company Gulf Oil Corp.		Connection Air									
Pool Undesignated		Formation Morrow		Date OCT 25 1977							
Completion Date 9-17-77		Total Depth 11356		Plug Back TD 11313							
Elevation 3353 Gr.		Form J.E.E.		Eddy P.T. State							
Casing Size 5.50"		Set At 11356		Perforations From 11005 To 234							
Well No. 2		Unit B		Sec. 26 Twp. 20S Rye. 27E							
Type Well - Single - Riddenhead - G.G. or G.O. Multiple		Packer Set At 10955		County Eddy							
Producing Thru Tubing 180		Reservoir Temp. °F 11120		Mech. Annual Temp. °F 60							
Baro. Press. - P _a 13.2		State New Mexico									
L 11120		H 11120		Gg 0.666							
% CO ₂ 5.11		% N ₂ 0.00		% H ₂ S 0.00							
Prover		Meter Run X		Taps							
FLOW DATA			TUBING DATA		CASING DATA						
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	Direction of Flow
1.	4.00		1.25	520	10.00"	87	3200	70			1.00 Hr.
2.	4.00		1.25	520	19.00"	103	3100	70			1.00 Hr.
3.	4.00		1.25	530	40.00"	85	2957	70			1.00 Hr.
4.	4.00		1.25	530	80.00"	69	2725	70			1.00 Hr.
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.	7.47	73.021	533.20	0.9750	1.2254	1.0440	680				
2.	7.47	100.652	533.20	0.9611	1.2254	1.0390	920				
3.	7.47	147.404	543.20	0.9768	1.2254	1.0450	1377				
4.	7.47	208.461	543.20	0.9915	1.2254	1.0510	1988				
5.											
NO.	P _r	Temp. °R	T _r	Z	Gas Liquid Hydrocarbon Ratio _____ Mcf/bbl.						
1.	0.78	547	1.48	0.912	A.P.I. Gravity of Liquid Hydrocarbons _____ Deg.						
2.	0.78	563	1.53	0.922	Specific Gravity Separator Gas _____ 0.666						
3.	0.80	545	1.48	0.910	Specific Gravity Flowing Fluid _____ 0.666						
4.	0.80	529	1.43	0.899	Critical Pressure _____ 681 P.S.I.A. 681 P.S.I.A.						
5.					Critical Temperature _____ 369 R 369 R						
P _c 3333.2 P _c ² 11110											
NO.	P _r ²	P _w	P _w ²	P _c ² - P _w ²	(1) $\frac{P_c^2}{P_c^2 - P_w^2} = 3.19520$ (2) $\left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 2.6750$						
1.	3216.6	10347	764		AOF = Q $\left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 5318$						
2.	3117.6	9719	1391								
3.	2985.3	8912	2198								
4.	2762.8	7633	3477								
5.											
Absolute Open Flow 5318				Mcf @ 15.025		Angle of Slope 49.73					
						Slope 0.847					
Remarks:											
Approved By Commission:		Conducted By:		Calculated By:		Checked By:					