

RECEIVED

Type Test ☒ Initial ☐ Annual ☐ Special		Test Date 9-28-79		OCT 4 1979	
Company GULF OIL CORP.		Connection AIR		O.C.C.	
Well WHITE CITY <i>four</i>		Formation MORROW		Well ARTEBIA, OFFICE	
Completion Date 9-22-79		Total Length 11614		Elevation 3327 ft.	
Casing Size 3 1/2		Set At 10212/11614		Performance 11154 to 11184	
Tub. Size 2 3/8		Set At 10179		Performance From To	
Type well - Single - Protobend - G.G. or G.O. Multiple SINGLE		Factor Set At 10179		Form or Lease Name MARQUARDT FED.	
Producing Thru TBG.		Reservoir Temp. °F 178 @ 10382		Mean Annual Temp. °F 60	
Baro. Press. - P _a 13.2		State NEW MEXICO		County EDDY	
L 10382	H 10382	G _g .568	% CO ₂ .69	% N ₂ .42	% H ₂ S
Prover		Meter Run 4"		Taps FLG.	

FLOW DATA						TUBING DATA		CASING DATA		Deviation 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							3825				24 HR.
1.	4	X	2.000	642	8.5	111	3627				1 HR.
2.	4	X	2.000	650	17.0	94	3350				1 HR.
3.	4	X	2.000	670	34.0	84	2975				1 HR.
4.	4	X	2.000	660	69.0	78	2080				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. Compens. Factor, F _{pv}	Rate of Flow Q, Mfd
1	19.81	74.63	655.2	.9543	1.327	1.035	1938
2	19.81	106.18	663.2	.9688	1.327	1.040	2812
3	19.81	152.41	683.2	.9777	1.327	1.045	4093
4	19.81	215.52	673.2	.9831	1.327	1.047	5832
5.							

NO.	P _r	Temp. °R	T _r	Z	Gas Liquid Hydrocarbon Ratio	DRY	Mcf/bbl.
1.	.98	571	1.65	.934	A.P.L. Gravity of Liquid Hydrocarbons		Deg.
2.	.99	554	1.60	.924	Specific Gravity Separator Gas	.568	X X X X X X X X
3.	1.02	544	1.57	.915	Specific Gravity Flowing Fluid	X X X X X	
4.	1.00	538	1.55	.912	Critical Pressure	672	P.S.I.A.
5.					Critical Temperature	346	R

P _c 3838.2 P _w 14731.8				(1) $\frac{P_c^2}{P_c^2 - P_w^2} = 1.572$		(2) $\left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 1.355$		
NO.	P _r	P _w	P _r ² - P _w ²					
1		3658.0	13381.0	1350.8				
2		3401.0	11566.8	3165.0				
3		3074.2	9450.7	5281.0				
4		2315.5	5361.5	9370.2				
5								

Absolute Open Flow		7,904	Mcf/D 15.025	Angle of Slope °	56	Slope, n	.672
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*** EQUIVALANT LENGTH CALCULATED

Approved By Consultant:	Conducted By:	Calculated By:	Checked By:
	JOHN DAVIS	LARRY DAVIS	