

NEW MEXICO OIL AND GAS COMMISSION
 EUMONT UNIT AND ONE POINT BACK FILL TEST FOR GAS WELL

Form OGC-1
 Revised 1961

Type Test ☒ Initial ☐ Annual ☐ Special		Test Date 5-23-77	
Company GULF OIL CORP.		Connection AIR	
Well EUMONT		Unit S.E. FELTON	
Completion Date 5-23-77	Total Depth 3950	Plug Back TD 3828	Elevation 3610 Gr.
Cas. Size 4 1/2	WT. 11.5	Set At 3913	Perforations: From 3729 To 3782
Reg. Size 2 3/8	WT. 4.70	Set At 3763	Perforations: From To
Type Well - Single - Restricted - G.C. or G.O. Multiple Single		Packer Set At	
Producing thru Tubing		Reservoir Temp. °F 125 @ 3756	
L		H	
3756		3756	
G _g		% CO ₂	
.7389		4.655	
S N ₂		1.003	
R H ₂ S		Prover	
XXXXXX		OWT	
County LEA		State NEW MEXICO	
Well No. 2		Unit Sec. Twp. Rge. 28 21S 36E	

FLOW DATA							TUBING DATA		CASING DATA		Duration of Flow
NO.	Prover Line Size	X	Orifice Size	Press. psia	Diff. h _w	Temp. °F	Press. psia	Temp. °F	Press. psia	Temp. °F	
1.	2.0	.25	7.5	68	254	70					1Hr.
2.	2.0	.25	20.0	68	239	70					1Hr.
3.	2.0	.375	17.0	68	226	70					1Hr.
4.	2.0	.750	12.0	68	201	70					1Hr.
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 Comp. Factor, F _{sp}	Rate of Flow Q, Mgd
1.	26.1			.9924	1.164		30
2.	47.1			.9924	1.164		54
3.	90.0			.9924	1.164		104
4.	288.0			.9924	1.164		333
5.							

NO.	P _t	Temp. °R	T _r	Z	Gas Liquid Hydrocarbon Ratio	Mo/Std.
1.	NOT APPLICABLE FOR THESE LOW PRESSURES				A.P.L. Gravity of Liquid Hydrocarbons	Dep.
2.					Specific Gravity Separator Gas	XXXXXX
3.					Specific Gravity Flowing Fluid	XXXXXX
4.					Critical Pressure	P.S.I.A.
5.					Critical Temperature	°R

NO.	P _t	P _w	P _w ²	P _c ² - P _w ²	(1) $\frac{P_c^2}{P_c^2 - P_w^2} = 1.50583$	(2) $\left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 1.50583$
1.	71.3	71.4	70.6			
2.	63.6	63.6	78.4			
3.	57.2	57.4	84.6			
4.	45.8	47.7	94.3			
5.						

Actual Gas Flow	501	Well #	15.003	Angle of Slope	45°	Slope, n	1.00
Approved By: _____ Conducted By: _____ Calculated By: _____ Checked By: _____							