

OIL CONSERVATION DIVISION

STATE OF NEW MEXICO
ENERGY AND MINERALS DEPARTMENTP. O. BOX 2088
SANTA FE, NEW MEXICO 87501Form C-122
Revised 10-1-78

MULTIPOINT AND ONE POINT BACK PRESSURE TEST FOR GAS

RECEIVED

Type Test ☒ Initial ☐ Annual ☐ Special				Test Date 6-28-83		JUL 5 - 1983	
Company Getty Oil Company				Oil Conserved OIL CON. DIV.		DIST. 3	
Pool Otero				Formation Madera		Unit	
Completion Date 6-21-83		Total Length 3740		Log Hole TD 3740		Elevation 6613 ft	
Csg. Size 4.500		Wt. 10.5		Set At 3740		Well No. 33	
Tub. Size 2.375		Wt. 4.70		Set At 3571		Perforations: From 3530 To 3530	
Type Well - Single - Bradenhead - G.C. or G.O. Multiple Single Gas		Packer Set At ---		County Rio Arriba		State New Mexico	
Producing Thru Tubing		Reservoir Temp. °F 8		Mean Annual Temp. °F 12.0		Baro. Press. - P _a	
L 3571		H 3571		G _g		% CO ₂	
				% N ₂		% H ₂ S	
				Prover 2.000		Meter Run	
						Taps	

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	15.000		Shut In				407		408		
1.	2.000	X	.750				31	60	165		1st hr
2.	2.000	X	.750				22	60	151		2nd hr
3.	2.000	X	.750				20	60	138		3rd hr
4.											
5.											

RATE OF FLOW CALCULATIONS							
NO.	Coefficient (24 Hour)	$\sqrt{h_w P_m}$	Pressure P _m	Flow Temp. Factor F _t	Gravity Factor F _g	Super Compress. Factor F _{pv}	Rate of Flow Q, Mcfd
1	11.000		55	1.0000	1.226	1.000	530
2	11.000		55	1.0000	1.226	1.000	459
3	11.000		55	1.0000	1.226	1.000	431
4.							
5.							

NO.	P _t	Temp. °R	T _f	Z	Gas Liquid Hydrocarbon Ratio	Mcf/bbl.
1					none	
2.					A.P.I. Gravity of Liquid Hydrocarbons	Deg.
3.					Specific Gravity Separator Gas	XXXXXXXXXX
4.					Specific Gravity Flowing Fluid	XXXXXX
5.					Critical Pressure	P.S.I.A.
					Critical Temperature	R

NO.	P _t ²	P _w ²	P _w ²	P _c ² - P _w ²	(1) $\frac{P_c^2}{P_t^2 - P_w^2} = 1.1462$	(2) $\left[\frac{P_c^2}{P_t^2 - P_w^2} \right]^n = 1.1028$
1						
2						
3	1024	150	22500	15300		
4						
5						

ACF = Q $\left[\frac{P_c^2}{P_t^2 - P_w^2} \right]^n = 477$

Absolute Open Flow	477	Mcf @ 15.025	Angle of Slope θ	Slope, n .75
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Remarks:

Approved By Division	Conducted By:	Calculated By:	Checked By: