

MULTIPOINT AND ONE POINT BACK PRESSURE TEST FOR GAS

Herrenreter

Type Test ☒ Initial ☐ Annual ☐ Special		Test Date 1/17/78	
Company Getty Oil Company		Connection Not Connected	
Pool Blanco		Formation Mesa Verde	
Completion Date 1/12/78		Total Depth 6900'	Plug Back TD 6896'
		Elevation 5811 KB	Form or Lease Name Mexico Fed. R
Csg. Size 5 1/2	Wt. 14.0#	5.012	Set At 6864
7-5/8	26.4#	6.969	3909
Th. Size 1 1/2	Wt. 13.40	1.000	Set At 4466
2 1/2 CS. Hydril		1.750	3731
Type Well - Single - Brdenhead - G.G. or G.O. Multiple Gas-Gas Multiple		Packer Set At 6621'	
Producing Thru Tubing		Reservoir Temp. °F	Mean Annual Temp. °F
			12.0
Baro. Press. - P _a		Prover	
		2.000	
L H Cg		% CO ₂	% N ₂
Not Applicable			
Meter Run		Taps	
County San Juan		State New Mexico	
Unit Sec. Twp. Rye. G- 12 31N R13W			

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							910		910		24 hr
1.	2.000x .750						480	60	720		1 hr
2.	2.000x .750						360	60	684		2 hr
3.	2.000x .750						335	60	650		3 hr
4.											
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	11.00		492	1.000	1.179	1.1068	7062
2	11.00		372	1.000	1.179	1.050	5051
3	11.00		347	1.000	1.179	1.047	4711
4.							
5.							

NO. R _f Temp. °R T _f Z				Gas Liquid Hydrocarbon Ratio <u>none observed</u> Mcf/bbl.	
				A.P.I. Gravity of Liquid Hydrocarbons <u> </u> Deg.	
				Specific Gravity Separator Gas <u> </u> X X X X X X X X	
				Specific Gravity Flowing Fluid <u> </u> X X X X X	
				Critical Pressure <u> </u> P.S.I.A. <u> </u> P.S.I.A.	
				Critical Temperature <u> </u> R <u> </u> R	

P _c 922 P _c ² 850084				(1) $\frac{P_c^2}{P_c^2 - P_w^2} = 2.064$		(2) $\left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 1.7219$	
NO.	P _i ²	P _w	P _w ²	P _c ² - P _w ²			
1	120409	662	438244	411840			
2							
3							
4							
5							

AOF = Q $\left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 8,111$

8111 Mcfd @ 15.025 Angle of Slope θ Slope, n .75

Absolute Open Flow

Remarks: The Dakota zone was completed in 1976, this Mesa Verde zone is a new completion for a dual with the Dakota zone.

Approved By Commission	Conducted By R.P. Herrenreter	Calculated By R.P. Herrenreter	Checked By
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