

MULTIPOINT AND ONE POINT BACK PRESSURE TEST FOR GAS WELL

Type Test ☒ Initial ☐ Annual ☐ Special					Test Date 9/25/85				
Company TENNECO OIL CO.				Connection					
Pool UNDESIGNATED				Formation FRUITLAND-COAL				Unit	
Completion Date		Total Depth 7523		Plug Back TD 2848		Elevation		Farm or Lease Name FLORANCE	
Csg. Size 7" 4 1/2"		ID		Set At 3500 7523		Perforations: From 2692 To 2838		Well No. 114	
Tub. Size 1 1/4"		ID		Set At 2720		Perforations: From To		Unit Sec. Twp. Range L 11 30 9	
Type Well - Single - Bradenhead - G.C. or G.O. Multiple						Packer Set At		County SAN JUAN	
Producing Thru		Reservoir Temp. °F		Mean Annual Temp. °F		Boro. Press. - P _a		State NEW MEXICO	
L		H		Gg .680		% CO ₂		% N ₂	
						% H ₂ S		Prover	
								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.	
51							1320		1320	
1.	2x6x.75						48		625	61
2.										
3.										
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 _{sp}	Rate of Flow Q, Mcfd
1	11		60	.9990	1.213	1.0065	805
2.							
3.							
4.							
5.							

NO.	P _r	Temp. °R	T _r	Z	Gas Liquid Hydrocarbon Ratio	A.P.I. Gravity of Liquid Hydrocarbon	Specific Gravity Separator Gas	Specific Gravity Flowing Fluid	Critical Pressure	Critical Temperature
1.	.09	521	1.35	.987						
2.										
3.										
4.										
5.										

NO.	P _r	P _w	P _w ²	P _c ² - P _w ²
1	1332	637	405769	1368455
2				
3				
4				
5				

(1) $\frac{P_c^2}{P_c^2 - P_w^2} = 1.2965$

AOF = Q $\left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 1004$

(2) $\left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 1.2469$

Absolute Open Flow	1004	Mcf @ 15.025	Angle of Slope	85
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Remarks: