

MULTIPOINT AND ONE POINT BACK PRESSURE TEST FOR GAS WELL

Type Test ☒ Initial ☐ Annual ☐ Special						Test Date 1-24-86	
Company TENNECO OIL CO.				Connection			
Pool UNDESIGNATED				Formation CHACRA		Unit	
Completion Date		Total Depth 4855		Plug Back TD 4811		Elevation	
Farm or Lease Name DRYDEN LS						Well No. 1A	
Csg. Size 7" 4 1/2"		Set At 3604 4853		Perforations: From 3165 To 3176		Unit Sec. Twp. Rge. I 28 28 8	
Trg. Size 1 1/4"		Set At 3141		Perforations: From To		County SAN JUAN	
Type Well - Single - Bradenhead - G.G. or G.O. Multiple				Packer Set At 3300		State NEW MEXICO	
Producing Thru		Reservoir Temp. °F		Mean Annual Temp. °F		Baro. Press. - P _a	
L H		G _g .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.	
1.	2x6x.75						600		603	
2.							48		133	52
3.										
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		60	1.008	1.213	1.0055	811
2.							
3.							
4.							
5.							

NO.	P _r	Temp. °R	T _r	Z	Gas Liquid Hydrocarbon Ratio	A.P.I. Gravity of Liquid Hydrocarbons	Specific Gravity Separator Gas	Specific Gravity Flowing Fluid	Critical Pressure	Critical Temperature
1.	.09	512	1.33	.989						
2.										
3.										
4.										
5.										

NO.	P _r	P _w	P _w ²	P _c ² - P _w ²
1.		145	21025	357200
2.				
3.				
4.				
5.				

(1) $\frac{P_c^2}{P_c^2 - P_w^2} = 1.0588$

AOF = Q $\left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 851$

(2) $\left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 1.0498$

Absolute Open Flow 851 Mcfd @ 15.025		Angle of Slope θ		Slope, n .85	
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Remarks:

Approved By Division

Conducted By:

Calculated By:

Checked By: