

MULTIPOINT AND ONE POINT BACK PRESSURE TEST FOR GAS WELL

Revised 9-1-65

Type Test ☒ Initial ☐ Annual ☐ Special					Test Date 12-27-76				
Company Tenneco Oil Company				Connection					
Pool Blanco				Formation Mesa Verde				Unit	
Completion Date 12-13-76		Total Depth 5586'		Plug Back TD 5563'		Elevation		Farm or Lease Name Florance	
Csg. Size 4-1/2"	Wt. 10.5#	d	Set At 5586'	Perforations: From 5047' To 5363'		Well No. 31-A			
Tbg. Size 2-3/8"	Wt. 4.7#	d	Set At 5418	Perforations: From 4710' To 4985'		Unit Sec. Twp. Rge. I 12 29N 8W			
Type Well - Single - Bradenhead - G.C. or G.O. Multiple Single					Packer Set At None Set		County San Juan		
Producing Thru Tubing		Reservoir Temp. °F @		Mean Annual Temp. °F		Baro. Press. - P _a		State New Mexico	
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.	
SI							567		767	
1.	2x6x.75			223		55	223	55	632	
2.										
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		235	1.005	1.213	1.027	3236
2.							
3.							
4.							
5.							

NO.	P _t	Temp. °R	T _f	Z	Gas Liquid Hydrocarbon Ratio _____ Mcf/bbl.	
1.	0.35	515	1.34	.948	A.P.I. Gravity of Liquid Hydrocarbons _____ Deg.	
2.					Specific Gravity Separator Gas _____ X X X X X X X X	
3.					Specific Gravity Flowing Fluid _____ X X X X X	
4.					Critical Pressure _____ P.S.I.A. _____ P.S.I.A.	
5.					Critical Temperature _____ R _____ R	

NO.	P _t ²	P _w	P _w ²	P _c ² - P _w ²
1		632	399424	188865
2				
3				
4				
5				

(1) $\frac{P_c^2}{P_c^2 - P_w^2} = 3.1149$

AOF = Q $\left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 7587$

(2) $\left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 2.3447$

Absolute Open Flow <u>7587</u> Mcfd @ 15.025		Angle of Slope <u>0.75</u>	
Remarks:			
Approved By Commission:		Conducted By:	
		Calculated By: J. D. Hicks	
		Checked By:	