

MULTIPOINT AND ONE POINT BACK PRESSURE TEST FOR GAS WELL

Type Test ☒ Initial ☐ Annual ☐ Special						Test Date 1-28-86	
Company TENNECO OIL CO.				Connection			
Pool BLANCO				Formation MESA VERDE		Unit	
Completion Date		Total Depth 4600		Plug Back TD 4595		Elevation	
Farm or Lease Name SCHWERTFEGER A LS							
Csg. Size 7" 4 1/2"		Wt. d		Set At 2748 4597		Perforations: From 4042 To 4556	
Trg. Size 2 3/8"		Wt. d		Set At 4543		Perforations: From To	
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		Baro. Press. - P _a	
State NEW MEXICO							
L		H		G _g .700		% 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.	Temp. °F	
SI							560		660		
1.	2x6x.75						148		596	48	3 hours
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		160	1.012	1.195	1.0195	2170
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	.24	508	1.32	.962	15.025		XXXXXX	XXXXXX	P.S.I.A.	P.S.I.A.
2.										
3.										
4.										
5.										

NO.	P _i	P _w	P _w ²	P _e ² - P _w ²
1		608	369664	81920
2				
3				
4				
5				

(1) $\frac{P_e^2}{P_e^2 - P_w^2} = 5.5125$

AOF = Q $\left[\frac{P_e^2}{P_e^2 - P_w^2} \right]^n = 7806$

(2) $\left[\frac{P_e^2}{P_e^2 - P_w^2} \right]^n = 3.5975$

Absolute Open Flow 7806 Mcfd @ 15.025		Angle of Slope θ		Slope, n .75	
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Remarks:

Approved by Division	Conducted by:	Calculated by:	Checked by:
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