

MULTIPOINT AND ONE POINT BACK PRESSURE TEST FOR GAS WELL

RECEIVED

EEB 271985

OIL CON. DIV
DIST. 3

Type Test ☒ Initial ☐ Annual ☐ Special				Test Date 12/17/84		RECEIVED EEB 271985 OIL CON. DIV DIST. 3	
Company Tenneco Oil Company				Connection			
Pool Basin				Formation Dakota		Unit	
Completion Date		Total Depth 7590		Plug Back TD 7540		Elevation	
Casing Size / 4 1/2		Set At 3597 7587		Perforations: From 7332 To 7522		Well No. 31E	
Trg. Size 2 3/8		Set At 7448		Perforations: From To		Unit Sec. Twp. Rge. I 12 29 8	
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	
L		H		Cg		State New Mexico	
				.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.
1.	2 x 6 x .75						2380
2.							122
3.							546
4.							52
5.							3 hours
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		134	1.008	1.195	1.0158	1803
2.							
3.							
4.							
5.							
NO.	P _r	Temp. °R	T _r	Z	Gas Liquid Hydrocarbon Ratio _____ Mcf/bbl.		
1.	.20	512	1.30	.969	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		
P _c 2392 P _c ² 5721664					(1) $\frac{P_c^2}{P_c^2 - P_w^2} = 1.0575$		
NO.	P _i ²	P _w	P _w ²	P _c ² - P _w ²	(2) $\left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 1.0428$		
1.		558	311364	5410300	AOF = Q $\left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 1880$		
2.							
3.							
4.							
5.							
Absolute Open Flow 1880 Mcfd @ 15.025					Angle of Slope @		Slope, n 75
Remarks:							
Approved by Division		Conducted by:		Calculated by:		Checked by:	