

NEW MEXICO OIL CONSERVATION COMMISSION
MULTIPOINT AND ONE POINT BACK PRESSURE TEST FOR GAS WELL

Form C-122
 Revised 9-1-65

Type Test ☒ Initial ☐ Annual ☐ Special		Test Date 11-10-76	
Company Tenneco Oil Company		Connection	
Pool Blanco		Formation Mesa Verde	
Completion Date 10-29-76		Total Depth 5288'	Plug Back TD 5242'
Elevation 6131'		Farm or Lease Name Mansfield	
Csg. Size 4 1/2"	Wt. 10.5#	Set At 5288	Perforations: From 5178' To 4909'
Tbg. Size 2-3/8"	Wt. 4.7#	Set At 5196'	Perforations: From 4791' To 4442'
Type Well - Single Single		Packer Set At None Set	
Producing Thru L		State New Mexico	
Reservoir Temp. °F @		Mean Annual Temp. °F	
Baro. Press. - P _a		County San Juan	
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. hw	Temp. °F	Press. p.s.i.g.	Temp. °F	Press. p.s.i.g.		Temp. °F
1.	2x6x.75			151		56	401	56	711		3 Hrs.
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		163	1.004	1.213	1.017	2221
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 P.S.I.A.	Critical Temperature °R
1.	.24	526	1.37	.967						
2.										
3.										
4.										
5.										

$P_c = 711$ $P_c^2 = 505521$				$(1) \frac{P_c^2}{P_c^2 - P_w^2} = 1.9707$	$(2) \left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 1.6633$	
NO.	P ₁ ²	P _w	P _w ²	P _c ² - P _w ²		
1.		499	249001	256520		
2.						
3.						
4.						
5.						

$AOF = Q \left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 3694$			
Absolute Open Flow 3694		Mcf/d @ 15.025	Angle of Slope θ
Slope, n		0.75	

Remarks:			
Approved By Commission:	Conducted By:	Calculated By:	Checked By: