

MULTIPOINT AND ONE POINT BACK PRESSURE TEST FOR GAS WELL

Type Test ☒ Initial ☐ Annual ☐ Special			Test Date 3-6-86				
Company TENNECO OIL CO.			Connection				
Pool BLANCO			Formation MESA VERDE			Unit	
Completion Date		Total Depth 5222		Plug Back TD 5178		Elevation	
Csg. Size 7" 4 1/2"		Set At 2958 5222		Perforations: From 4190 To 5124		Farm or Lease Name S.J. 28-7-unit	
Tng. Size 2 3/8"		Set At 4811		Perforations: From To		Well No. 58A	
Type Well - Single - Drdhead - G.C. or G.O. Multiple				Packer Set At		County RIO ARRIBA	
Producing Thru		Reservoir Temp. °F		Mean Annual Temp. °F		Baro. Press. - P _a	
L		H		Cg .700		State NEW MEXICO	
				% 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	
1.	2x6x.75						920		920		3 hours
2.							408		792	46	
3.											
4.											
5.											

RATE OF FLOW CALCULATIONS							
NO.	Coefficient (24 Hour)	$\sqrt{h_w P_m}$	Pressure P _m	Flow Temp. Factor F _t	Gravity Factor F _g	Super Compress. Factor, F _{pv}	Rate of Flow Q, Mcfd
1.	11		420	1.014	1.195	1.0564	5914
2.							
3.							
4.							
5.							

NO.	R	Temp. °R	T _f	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.	.63	506	1.31	.896						
2.										
3.										
4.										
5.										

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DIST. 3

NO.	P _i	P _w	P _w ²	P _i ² - P _w ²
1.		804	646416	222208
2.				
3.				
4.				
5.				

$$(1) \frac{P_c^2}{P_c^2 - P_w^2} = 3.9090$$
$$(2) \left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 2.7800$$
$$AOF = Q \left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 16441$$

Absolute Open Flow 16441		Mcf @ 15.025		Angle of Slope @		Slope, n .75	
Remarks:							

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