

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

Form C-122
Revised 9-1-65

RECEIVED
SEP 27 1985
OIL CON. DIV.
DIST. 3

Type Test ☒ Initial ☐ Annual ☐ Special				Test Date 9-25-85			
Company El Paso Natural Gas				Connection			
Pool Blanco				Formation Mesa Verde		Unit	
Completion Date 9-25-85		Total Depth 6688		Plug Back TD 6674		Elevation 7178 GR	
Form or Lease Name S.J. 27-4 Unit				Well No. #122			
Coq. Size 7.000	wt. 20	d 6.456	Set At 442	Perforations: From *5858 To 6622		Unit Sec. Twp. Rge. J 02 27 04	
Teg. Size 2.375	wt. 4.7	d 1.995	Set At 6600	Perforations: From To		Unit Sec. Twp. Rge. J 02 27 04	
Type Well - Single - Bradenhead - G.G. or G.O. Multiple Single				Packer Set At None		County Rio Arriba	
Producing Thru Tbg.		Reservoir Temp. *F a		Mean Annual Temp. *F		Baro. Press. - P _a 12	
L		H		Gg		State New Mexico	
				% CO ₂		% N ₂	
				% H ₂ S		Prover	
						Meter Run	
						Taps	

FLOW DATA					TUBING DATA		CASING DATA		Duration of Flow		
NO.	Flow 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	Duration of Flow
1.			.750	132		75	733		1089		7 Days
2.							132		635		3 Hrs.
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	112.365		144	.9859	.9393	1.013	1670
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										
2										
3										
4										
5										

P _r 1101		P _w 1212201	
NO.	P _r	P _w	P _r ² - P _w ²
1		647	418609
2			
3			
4			
5			

(1) $\frac{P_r^2}{P_r^2 - P_w^2} = \frac{1212201}{793592}$		(2) $\left[\frac{P_r^2}{P_r^2 - P_w^2} \right]^n = 1.3740$	
ACF = Q $\left[\frac{P_r^2}{P_r^2 - P_w^2} \right]^n = 1882$			

Absolute Open Flow 1882 Mcfd @ 15.025		Angle of Slope θ /		Slope, n .75	
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Remarks: *4.500 Liner - 4290' - 6688'.	
Produced mist of water throughout test.	
Gas vented during test = 292 MCF.	
Approved by Commission:	Conducted By: Harold Cloer
Calculated By: Ed Mabe	Checked By: kld