

OIL CONSERVATION DIVISION

STATE OF NEW MEXICO
ENERGY AND MINERALS DEPARTMENTP. O. BOX 2088
SANTA FE, NEW MEXICO 87501Form C-122
Revised 10-1-78

MULTIPOINT AND ONE POINT BACK PRESSURE TEST FOR GAS WELL

Type Test ☒ Initial ☐ Annual ☐ Special		Test Date 4-6-81	
Company El Paso Naturao Gas Company		Connection El Paso Natural Gas Company	
Pool Blanco		Formation Mesa Verde	
Completion Date 3-28-81		Total Depth 5593	Plug Back TD 5573
		Elevation 6243 GR	
Csg. Size 7.000		Wt. 20	d 6.456
Set At 3287		Perforations: From *4610 To 5550	
Well No. #51A			
Tub. Size 2.375		Wt. 4.7	d 1.995
Set At 5527		Perforations: From To	
Unit 0		Sec. 24	Twp. 28
Rye. 7			
Type Well - Single - Broadhead - G.G. or G.O. Multiple G. G. Dual		Packer Set At 3108	County Rio Arriba
Producing Thru TBG.		Reservoir Temp. *F p	Mean Annual Temp. *F
		Baro. Press. - P _a 12	
State New Mexico			
L	H	G _g 0.650	% 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							726				9 Days
1.	Choke		0.750	175		69					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. Compens. Factor, F _{pv}	Rate of Flow Q, Mcf/d
1	12.365		187	0.9915	0.9608	1.017	2240
2.							
3.							
4.							
5.							

NO.	P _f	Temp. *R	T _f	Z	Gas Liquid Hydrocarbon Ratio _____ Mcf, bbl.			
					A.P.I. Gravity of Liquid Hydrocarbons _____ Deg.			
					Specific Gravity Separator Gas _____ X X X X X X X X			
					Specific Gravity Flowing Fluid _____ X X X X X			
					Critical Pressure _____ P.S.I.A. _____ P.S.I.A.			
					Critical Temperature _____ R _____ R			
1	758							
2								
3								
4								
5								

NO.	P _f	P _w	P _f ²	P _w ²	P _f ² - P _w ²	(1) $\frac{P_c^2}{P_f^2 - P_w^2} =$	(2) $\left[\frac{P_c^2}{P_f^2 - P_w^2} \right]^n =$
1	34969	370	136900	407744		1.3357	1.2425
2							
3							
4							
5							

AOF = Q $\left[\frac{P_c^2}{P_f^2 - P_w^2} \right]^n =$			
2783			

Absolute Open Flow	2783	Mcf @ 15.025	Angle of Slope θ	Slope, n	0.75
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Remarks: *4.500" Liner From 3116 To 5593. Vented 294 MCF Gas During The Test

Approved By Division	Conducted By: John Easley	Calculated By: H. E. McNally	Checked By:
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