

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 2-13-81	
Company El Paso Natural Gas Company				Connection El Paso Natural Gas Company	
Pool Blanco				Formation Mesa Verde	
Completion Date 2-1-81		Total Depth 6021		Plug Back TD 6004	
				Elevation 6629 GL	
Csg. Size 7.000		Wt. 20		d 6.456	
Set At 3743		Perforations: From *5062 To 5990		Well No. #50A	
Tbg. Size 2.375		Wt. 4.7		d 1.995	
Set At 5950		Perforations: From To		Unit E 19 28 6	
Type Well - Single - Bradenhead - G.G. or G.O. Multiple G. G. Dual				Packer Set At 3613	
Producing Thru Tbg.		Reservoir Temp. *F β		Mean Annual Temp. *F	
				Baro. Press. - P _a 12	
County Rio Arriba		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							750				12 Days
1.	Choke		0.750	195		58					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 F _t	Gravity Factor F _g	Super Compress. Factor, F _{pv}	Rate of Flow Q, Mcfd
1	12.365		207	1.0019	0.9608	1.021	2516
2.							
3.							
4.							
5.							

NO.	P _t	Temp. *R	T _i	Z	Gas Liquid Hydrocarbon Ratio	Mcf/bbl.
1					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.
5.					Critical Temperature	R

NO.	P _t ²	P _w	F _w ²	P _c ² - P _w ²
1	42849	424	179776	400868
2				
3				
4				
5				

(1) $\frac{P_c^2}{P_c^2 - P_w^2} = 1.4485$

(2) $\left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 1.3203$

AOF = Q $\left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 3322$

Absolute Open Flow 3322		Mcf/d @ 15.025	Angle of Slope θ	Slope, n 0.75
-------------------------	--	----------------	------------------	---------------

Remarks: *4.500 Liner from 3603 to 6021. Vented 302 MCF Gas During The Test/

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