

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 2-20-81	
Company El Paso Natural Gas Company				Connection El Paso Natural Gas Company	
Pool Undes.				Formation Pictured Cliffs	
Completion Date 2-1-81		Total Depth 6021		Plug Back TD 6004	
				Elevation 6629 G.L.	
Csg. Size 7.000		Wt. 20		d 6.456	
				Set At 3743	
Tng. Size 1.660		Wt. 2.4		d 1.380	
				Set At 3448	
Type Well - Single - Bradenhead - G.G. or G.O. Multiple G. G. Dual				Packer Set At 3613	
Producing Thru Csg.		Reservoir Temp. °F		Mean Annual Temp. °F	
		Baro. Press. - P _a 12		State New Mexico	
L		H		Gg 0.625	
				% 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.	
SI							996		996	
1.	Choke	0.750		182		60	185			
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 Fg	Super Compress. Factor, Fpv	Rate of Flow Q, Mcfd
1	12.365		194	1.000	0.9798	1.016	2388
2.							
3.							
4.							
5.							

NO.	P _t	Temp. °R	T _t	Z	Gas Liquid Hydrocarbon Ratio	Mcf/bbl.
1					A.P.I. Gravity of Liquid Hydrocarbons	Deg.
2.					Specific Gravity Separator Gas	
3.					Specific Gravity Flowing Fluid	
4.					Critical Pressure	P.S.I.A.
5.					Critical Temperature	R

NO.	P _t ²	P _w ²	P _w ²	P _t ² - P _w ²
1		197	38809	977255
2				
3				
4				
5				

P _c 1008		P _c ² 1016064		(1) $\frac{P_c^2}{P_c^2 - P_w^2} = 1.0397$		(2) $\left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 1.0337$	
				AOF = Q $\left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 2468$			

Absolute Open Flow 2468		Mcf/d @ 15.025		Angle of Slope		Slope, n 0.85	
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Remarks: Gas Vented = 350 MCF During The Test.	
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Approved by Division	Conducted By: John Easley	Calculated By: H. E. McAnally	Checked By:
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