

EL PASO NATURAL GAS COMPANY
OPEN FLOW TEST DATA

DATE September 3, 1976

Operator El Paso Natural Gas Company		Lease San Juan 29-4 Unit #7	
Location NW 8-29-4		County Rio Arriba	State New Mexico
Formation Mesa Verde		Pool Blanco	
Casing: Diameter 5.000	Set At: Feet 6555'	Tubing: Diameter 2.375	Set At: Feet 5859'
Pay Zone: From 4056	To 6542	Total Depth: 6590	Shut In TA
Stimulation Method Sandwater Frac		Flow Through Casing	Flow Through Tubing XX

Meter Choke Size, Inches 4" MR 2.750 pl.		Meter Choke Constant: C 41.10			
Shut-In Pressure, Casing, PSIG	+ 12 = PSIA	Days Shut-In TA	Shut-In Pressure, Tubing PSIG	+ 12 = PSIA	
			1035	1047	
Flowing Pressure: P PSIG	+ 12 = PSIA	Working Pressure: Pw PSIG	+ 12 = PSIA		
71 MR 204 WH	83 MR 216 WH	calculated	368		
Temperature: T = 59 °F	n = .75	Fpv (From Tables) 1.009	Gravity .650	Fg = .9608	
Ft = 1.001					

$$\text{CHOKE VOLUME} = Q = C \times P_f \times F_t \times F_g \times F_{pv}$$

$$Q = \text{Calculated from orifice meter readings} = \underline{2034} \text{ MCF/D}$$

$$\text{OPEN FLOW} = Aof = Q \left(\frac{P_c^2}{P_c^2 - P_w^2} \right)^n$$

$$Aof = Q \left(\frac{1096209}{960785} \right)^n = (2034)(1.1410)^{.75} = 2034(1.1040)$$

$$Aof = \underline{2245} \text{ MCF/D}$$

Note: Well did not produce any liquid.
Gas vented 298 MCF to atmosphere.

TESTED BY C. R. Wagner

WITNESSED BY _____

C. R. Wagner
Well Test Engineer

