

EL PASO NATURAL GAS COMPANY
OPEN FLOW TEST DATA

DATE February 25, 1964

Operator <u>Beta Development Company</u>		Lease <u>Federal "C" No. 1</u>	
Location <u>1800'N, 1585'W, Sec. 28, T-30-N, R-11-W</u>		County <u>San Juan</u>	State <u>New Mexico</u>
Formation <u>Dakota</u>		Pool <u>Basin</u>	
Casing: Diameter <u>4.500</u>	Set At: Feet <u>6843</u>	Tubing: Diameter <u>2.375</u>	Set At: Feet <u>6790</u>
Pay Zone: From <u>6655</u>	To <u>6806</u>	Total Depth: <u>6843</u>	Shut In <u>2-18-64</u>
Stimulation Method <u>Sand Water Frac.</u>		Flow Through Casing	Flow Through Tubing <u>X</u>

Choke Size, Inches <u>0.750</u>		Choke Constant: C <u>12.365</u>			
Shut-In Pressure, Casing, PSIG <u>2008</u>	+ 12 = PSIA <u>2020</u>	Days Shut-In <u>7</u>	Shut-In Pressure, Tubing PSIG <u>1996</u>	+ 12 = PSIA <u>2008</u>	
Flowing Pressure: P PSIG <u>187</u>	+ 12 = PSIA <u>199</u>		Working Pressure: P _w PSIG <u>720</u>	+ 12 = PSIA <u>732</u>	
Temperature: T = <u>78</u> °F	F _t = <u>.9831</u>	n = <u>.75</u>	F _{pv} (From Tables) <u>1.018</u>	Gravity <u>.670</u>	F _g = <u>.9463</u>

CHOKE VOLUME = Q = C x P_i x F_t x F_g x F_{pv}

$$Q = (12.365)(199)(.9831)(.9463)(1.018) = \underline{2330} \text{ MCF/D}$$

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

$$A_{of} = \left(\frac{14080400}{3544576} \right)^n = (2.330)(1.1511)^{.75} = (2330)(1.1112)$$

NOTE: The well produced a heavy spray of water and dist. throughout the test.

$$A_{of} = \underline{2589} \text{ MCF/D}$$

TESTED BY George Hoffman (Beta)

WITNESSED BY Hermon E. McAnally (EPNG)

