

# EL PASO NATURAL GAS COMPANY OPEN FLOW TEST DATA

DATE May 8, 1978

Operator <b>El Paso Natural Gas Company</b>		Lease <b>Jones #1-A</b>	
Location <b>SE 35-29-08</b>		County <b>San Juan</b>	State <b>New Mexico</b>
Formation <b>Mesa Verde</b>		Pool <b>Blanco</b>	
Casing: Diameter <b>4.500</b>	Set At: Feet <b>5224'</b>	Tubing: Diameter <b>2.375</b>	Set At: Feet <b>5176'</b>
Pay Zone: From <b>4098</b>	To <b>5202</b>	Total Depth: <b>5224'</b>	Shut In <b>4-26-78</b>
Stimulation Method <b>Sandwater Frac</b>		Flow Through Casing	Flow Through Tubing <b>XX</b>

Choke Size, Inches <b>.750</b>		Choke Constant: C <b>12.365</b>			
Shut-In Pressure, Casing, PSIG <b>--</b>	+ 12 = PSIA <b>--</b>	Days Shut-In <b>12</b>	Shut-In Pressure, Tubing PSIG <b>662</b>	+ 12 = PSIA <b>674</b>	
Flowing Pressure: P PSIG <b>257</b>	+ 12 = PSIA <b>269</b>		Working Pressure: Pw PSIG <b>Calc.</b>	+ 12 = PSIA <b>524</b>	
Temperature: T = <b>68 °F</b>	Ft = <b>.9924</b>	n = <b>.75</b>	Fpv (From Tables) <b>1.025</b>	Gravity <b>.650</b>	Fg = <b>.9608</b>

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

$$Q = 12.365 (269) (.9924) (.9608) (1.025) = \underline{3251} \text{ MCF/D}$$

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

$$Aof = Q \left( \frac{454276}{179700} \right)^n = (2.5280)^{.75} = (3251) = (2.005) (3251)$$

$$Aof = \underline{6518} \text{ MCF/D}$$

Note: Well blew dry gas throughout test. Well vented 323 MCF to the atmosphere during test.

TESTED BY J. Easley

WITNESSED BY \_\_\_\_\_

*C.R. Wagner*  
Well Test Engineer