

EL PASO NATURAL GAS COMPANY  
OPEN FLOW TEST DATADATE May 22, 1974

Operator <u>El Paso Natural Gas Company</u>		Lease <u>Johnston A Com F #16</u>	
Location <u>1650/N, 1570/E, Sec. 36, T26N, R6W</u>		County <u>Rio Arriba</u>	State <u>New Mexico</u>
Formation <u>Chacra</u>		Pool <u>Otero</u>	
Casing: Diameter <u>2.875</u>	Set At: Feet <u>3900'</u>	Tubing: Diameter <u>No Tubing</u>	Set At: Feet <u>--</u>
Pay Zone: From <u>3724</u>	To <u>3834</u>	Total Depth: <u>PBTD</u> <u>3900' 3858'</u>	Shut In <u>4-29-74</u>
Stimulation Method <u>Sandwater Frac</u>		Flow Through Casing <u>XX</u>	Flow Through Tubing

Choke Size, Inches <u>.750</u>		Choke Constant: C <u>12.365</u>		Tubingless Completion	
Shut-In Pressure, Casing, PSIG <u>934</u>	+ 12 = PSIA <u>946</u>	Days Shut-In <u>23</u>	Shut-In Pressure, Tubing, PSIG <u>No Tubing</u>	+ 12 = PSIA <u>--</u>	
Flowing Pressure: P, PSIG <u>48</u>	+ 12 = PSIA <u>60</u>		Working Pressure: P <sub>w</sub> , PSIG <u>Calculated</u>	+ 12 = PSIA <u>79</u>	
Temperature: <u>T = 48 °F</u>	n = <u>.75</u>		F <sub>pv</sub> (From Tables) <u>1.004</u>	Gravity <u>.655</u>	F <sub>g</sub> = <u>.9571</u>

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

$$Q = 12.365(60)(1.0117)(.9571)(1.004) = \underline{721} \text{ MCF/D}$$

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

$$Aof = Q \left( \frac{894916}{888675} \right)^n = 721(1.0070)^{.75} = 721(1.0053)$$

$$Aof = \underline{725} \text{ MCF/D}$$

Note: The well blew a heavy fog of water.

TESTED BY Jessee B. Goodwin

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

Loren W. Fothergill  
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Well Test Engineer

