

EL PASO NATURAL GAS COMPANY
OPEN FLOW TEST DATADATE December 6, 1973

Operator <u>El Paso Natural Gas Company</u>		Lease <u>Canyon Largo Unit #216</u>	
Location <u>1720/N, 1530/E, Sec. 15, T24N, R6W</u>		County <u>Rio Arriba</u>	State <u>New Mexico</u>
Formation <u>Pictured Cliffs</u>		Pool <u>Ballard</u>	
Casing: Diameter <u>2.875</u>	Set At: Feet <u>2392'</u>	Tubing: Diameter <u>No Tubing</u>	Set At: Feet
Pay Zone: From <u>2284</u>	To <u>2344</u>	Total Depth: <u>2392</u>	Shut In <u>11-26-73</u>
Stimulation Method <u>Sandwater Frac</u>		Flow Through Casing <u>X</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>415</u>	+ 12 = PSIA <u>427</u>	Days Shut-In <u>10</u>	Shut-In Pressure, Tubing PSIG <u>No Tubing</u>	+ 12 = PSIA	
Flowing Pressure: P PSIG <u>32</u>	+ 12 = PSIA <u>44</u>		Working Pressure: P _w PSIG <u>Calculated</u>	+ 12 = PSIA <u>47</u>	
Temperature: T = <u>56</u> °F	F _t = <u>1.0039</u>	n = <u>.85</u>	F _{pv} (From Tables) <u>1.004</u>	Gravity <u>.700</u>	F _g = <u>.9258</u>

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

$$Q = (12.365)(44)(1.0039)(.9258)(1.004) = \underline{\quad 508 \quad} \text{ MCF/D}$$

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

$$Aof = Q \left(\frac{182329}{179520} \right)^n = 508 (1.0156)^{.85} = (1.0133) (508)$$

$$Aof = \underline{514} \text{ MCF/D}$$

Note: Blew clear gas for entire test.

TESTED BY Jesse B. Goodwin

WITNESSED BY _____

William D. Welch
 William D. Welch
 Well Test Engineer

