

EL PASO NATURAL GAS COMPANY
OPEN FLOW TEST DATADATE April 16, 1974

Operator <u>El Paso Natural Gas Company</u>		Lease <u>Rincon Unit #200</u>	
Location <u>1651/S, 1500/W, Sec 33, T27N, R7W</u>		County <u>Rio Arriba</u>	State <u>New Mexico</u>
Formation <u>Chacra</u>		Pool <u>Undesignated</u>	
Casing: Diameter <u>2.875</u>	Set At: Feet <u>4164'</u>	Tubing: Diameter <u>No Tubing</u>	Set At: Feet <u>--</u>
Pay Zone: From <u>3956'</u>	To <u>3970'</u>	Total Depth: <u>PBTD</u> <u>4164' 4154'</u>	Shut In <u>4-5-74</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>989</u>	+ 12 = PSIA <u>1001</u>	Days Shut-In <u>11</u>	Shut-In Pressure, Tubing PSIG <u>No Tubing</u>	+ 12 = PSIA <u>--</u>	
Flowing Pressure: P PSIG <u>58</u>	+ 12 = PSIA <u>70</u>		Working Pressure: P _w PSIG <u>Calculated</u>	+ 12 = PSIA <u>93</u>	
Temperature: T = <u>57°F</u>	n = <u>.75</u>		F _{pv} (From Tables) <u>1.009</u>	Gravity <u>.655</u>	F _g = <u>.9571</u>

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

$$Q = 12.365(70)(1.0029)(.9571)(1.009) = \underline{\quad 838 \quad} \text{ MCF/D}$$

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

$$Aof = Q \left(\frac{1002001}{993352} \right)^n = 838 (1.0087)^{.75} = 838(1.0065)$$

$$Aof = \underline{\quad 844 \quad} \text{ MCF/D}$$

Note: The well blew dry gas throughout test.

TESTED BY Hardy

WITNESSED BY _____

Loren W. Fothergill
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Well Test Engineer

