

EL PASO NATURAL GAS COMPANY  
OPEN FLOW TEST DATADATE 7-23-74

Operator <u>El Paso Natural Gas Company</u>		Lease <u>San Juan 27-4 Unit #62</u>	
Location <u>1500/N, 800/W, Sec. 26, T-27-N, R-4-W</u>		County <u>Rio Arriba</u>	State <u>New Mexico</u>
Formation <u>Pictured Cliffs</u>		Pool <u>Tapacito</u>	
Casing: Diameter <u>2.875</u>	Set At: Feet <u>4343</u>	Tubing: Diameter <u>No Tubing</u>	Set At: Feet <u>-----</u>
Pay Zone: From <u>4144</u>	To <u>4216</u>	Total Depth: <u>4343</u> <u>PETD</u> <u>4333</u>	Shut In <u>5-1-74</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>1090</u>	+ 12 = PSIA <u>1102</u>	Days Shut-In <u>83</u>	Shut-In Pressure, Tubing PSIG <u>No Tubing</u>	+ 12 = PSIA <u>-----</u>	
Flowing Pressure: P PSIG <u>192</u>	+ 12 = PSIA <u>204</u>		Working Pressure: Pw PSIG <u>Calculated</u>	+ 12 = PSIA <u>274</u>	
Temperature: T = <u>65</u> °F	Ft = <u>.9952</u>	n = <u>.85</u>	Fpv (From Tables) <u>1.0210</u>	Gravity <u>.680</u>	Fg = <u>.9393</u>

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

$$Q = 12.365(204)(.9952)(.9393)(1.0210) = \underline{2407} \text{ MCF/D}$$

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

$$Aof = Q \left( \frac{1214404}{1139328} \right)^n = 2407(1.0659)^{.85} = 2407(1.0557)$$

$$Aof = \underline{2542} \text{ MCF/D}$$

Note: The well produced a dry flow.

TESTED BY C. Rhames

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

Loren W. Fothergill  
Loren W. Fothergill  
Well Test Engineer  
July 24, 1974

