

EL PASO NATURAL GAS COMPANY  
OPEN FLOW TEST DATADATE July 10, 1974

Operator <u>El Paso Natural Gas Company</u>		Lease <u>San Juan 27-4 Unit #92</u>	
Location <u>940/N, 860/E, Sec. 34, T27N, R4W</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>4255'</u>	Tubing: Diameter <u>No Tubing</u>	Set At: Feet <u>--</u>
Pay Zone: From <u>4112</u>	To <u>4182</u>	Total Depth: <u>PBTD</u> <u>4255'</u> <u>4245'</u>	Shut In <u>7-2-74</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>979</u>	+ 12 = PSIA <u>991</u>	Days Shut-In <u>8</u>	Shut-In Pressure, Tubing PSIG <u>No Tubing</u>	+ 12 = PSIA <u>--</u>	
Flowing Pressure: P PSIG <u>250</u>	+ 12 = PSIA <u>262</u>		Working Pressure: P <sub>w</sub> PSIG <u>Calculated</u>	+ 12 = PSIA <u>352</u>	
Temperature: T = <u>62</u> °F	n = <u>.85</u>		F <sub>pv</sub> (From Tables) <u>1.0290</u>	Gravity <u>.680</u>	F <sub>g</sub> = <u>.9393</u>

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

$$Q = 12.365(262)(.9981)(.9393)(1.0290) = \underline{3125} \text{ MCF/D}$$

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

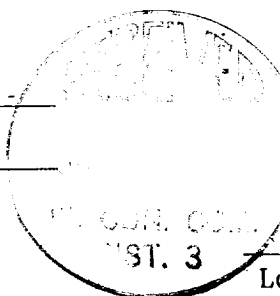
$$Aof = Q \left( \frac{982081}{858177} \right)^n = 3125(1.1444)^{.85} = 3125(1.1215)$$

$$Aof = \underline{3505} \text{ MCF/D}$$

Note: The well blew a dry gas during the test.

TESTED BY D. Norton

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



Loren W. Fothergill  
Loren W. Fothergill  
Well Test Engineer