

EL PASO NATURAL GAS COMPANY OPEN FLOW TEST DATA

DATE **November 17, 1961**

El Paso Natural Gas Company Location: 940'S, 1350'W, Sec. 31-30-10 State: Dakota Casing Diameter: 4-1/2 Set At: Feet 7050 Casing Depth: 6824 To 6986 Completion Method: Sand/Water Frac.		Lease: Ludwick No. 21 County: San Juan State: New Mexico Pool: Basin Tubing Diameter: 2-3/8 Set At: Feet 6997 Total Depth: 11-10-61 Flow Through Casing: 7056 c/o 7013 Flow Through Tubing: X	
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Choke Constant: 0.750 Shut-In Pressure, Tubing: 2015 PSIG - 12 - PSIA Working Pressure: 253 PSIG - 12 - PSIA Flow Through Casing: 84 c/o .9777 .75		Days Shut-In: 7 Shut-In Pressure, Tubing: 2004 PSIG - 12 - PSIA Working Pressure: 703 PSIG - 12 - PSIA Flow Through Casing: 1.024 Gravity: .670 .9463	
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$$Q = 20194 \cdot C \cdot \left(\frac{P_i^2 - P_w^2}{P_i^2 - P_a^2} \right)^n \cdot F_g \cdot F_v$$

$$Q = (12.365)(265)(.9777)(.9463)(1.024)$$

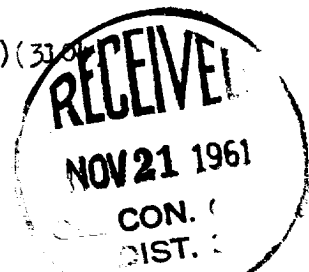
$$3104 \text{ MCF/D}$$

$$Q = 20194 \cdot C \cdot \left(\frac{P_i^2 - P_w^2}{P_i^2 - P_a^2} \right)^n$$

$$Q = 20194 \cdot C \cdot \left(\frac{4,108,729 - 3,597,504}{4,108,729 - 3,597,504} \right)^n$$

$$(1.1421)^{.75}(3104) = (1.1048)(3104)$$

$$Q = 3429 \text{ MCF/D}$$



NOTE: Blew heavy fog of water throughout test.

Dannie R. Roberts

Checked by: W. D. Dawson

Lewis D. Galloway
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