

EL PASO NATURAL GAS COMPANY OPEN FLOW TEST DATA

DATE August 27 1962

Operator El Paso Natural Gas Company	Lease Sunray No. 1-D (OWDD)
Location 990'S, 990'W, Sec. 21, T-³⁰31-N, R-10-W	County San Juan State New Mexico
Formation Dakota	Pool Basin
Casing Diameter 4.5 Set At Feet 7500	Tubing Diameter 2.375 Set At Feet 7371
Flow Line Length 7272 To 7430	Total Depth 7500 Shut In 8-10-62
Production Method Sand Water Frac.	Flow Through Casing X Flow Through Tubing X

Casing Size, In. 0.75	Choke Constant, C 12.365
Shut-In Pressure, Casing, PSIG 2122	Days Shut-In 17
Shut-In Pressure, Tubing, PSIG 2103	Shut-In Pressure, Tubing, PSIA 2115
Working Pressure, Pw, PSIG 229	Working Pressure, Pw, PSIA 701
Temperature, T, °F 73	Flow From Tables, Gravity 1.022
Fracture Gradient, Fg .9877	Fracture Gradient, Fg .9163

$$Q = 1.1256 \times C \times P_w \times F_g \times F_{av}$$

$$Q = (12.365)(211)(.9877)(.9163)(1.022)$$

281.7

MCF/D

$$Q_{\text{ACT}} = Q \left(\frac{P_w^2 - P_a^2}{P_w^2 - P_a^2} \right)^n$$

$$Q_{\text{ACT}} = \left(\frac{4,553,956}{1,045,587} \right)^n (1.1256)^{.75} (281.7) = (1.0927)(281.7)$$

ACT 311.1

MCF/D

Checked by **Herman E. McAnally**

Checked by

Tom E. Grant

EL PASO
AUG 29 1962
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