

EL PASO NATURAL GAS COMPANY OPEN FLOW TEST DATA

DATE October 3, 1962

Operator El Paso Natural Gas Company	Lease San Juan Unit 27-5 No. 78
Location 1460'N, 1460'E, Sec. 5-27-5	County Rio Arriba State New Mexico
Formation Dakota	Pool Basin
Casing Diameter 4-1/2" Set At Feet 7826	Tubing Diameter 2.375 Set At Feet 7733
Play Zone 7536 To 7749	Total Depth 7826 c/o 7797 Shut-in 9-26-62
Stimulation Method Sand/Water Frac.	Flow Through Casing X Flow Through Tubing

Shut-In Pressure, Casing 2339 PSIG	Shut-In Pressure, Tubing 2315 PSIG
Working Pressure, Pw 358 PSIG	Working Pressure, Pw 1295 PSIG
Temperature 74 F	Gravity .9463
Flow Constant C 12.365	Flow Constant C 12.365
Days Shut-In 7	Days Shut-In 7
Flow Constant C 370	Flow Constant C 370
Flow Constant C .9868	Flow Constant C .9868
Flow Constant C .75	Flow Constant C .75
Flow Constant C 1.037	Flow Constant C 1.037
Flow Constant C .670	Flow Constant C .670

WAKE VOLUME $Q = Q_1 \times P_1 \times F_1 \times F_2 \times F_3 \times F_4$

$$Q = (12.365)(370)(.9868)(.9463)(1.037)$$

4430 MCF/D

$$\text{OPEN FLOW ACT} = \left(\frac{Q}{P_1} \right)^n$$

$$\text{ACT} = \left(\frac{5,527,201}{3,818,952} \right)^n$$

$$(4430)(1.4473)^{.75} = (4430)(1.3200)$$

ACT **5848** MCF/D



NOTE: Blew almost dead and then unloaded a big slug of water and hydrocarbons and then made spray the rest of test.

R. F. Headrick

Checked by W. D. Dawson

Lewis D. Galloway
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