

EL PASO NATURAL GAS COMPANY OPEN FLOW TEST DATA

DATE **August 24, 1961**

Operator El Paso Natural Gas Company	Lease Kernaghan No. 2 (OWWO)
Location 1510'N, 1190'E, Sec. 28-31N-8W	County San Juan State New Mexico
Formant Mesa Verde	Pool Blanco
Casing: O.D. 4-1/2" O.D., 9.5 lbs. Set At: Feet 5603	Tubing: O.D. 2-3/8" O.D. Set At: Feet 5550
Pay Zone: From 5104 To 5573	Total Depth: 5605 C/O 5585
Stimulation Method: Sand/Water Frac.	Flow Through Tubing X

Choke Size, Inches .75	Choke Constant, C 12.365
Shut-In Pressure, Casing, PSIG 909	Shut-In Pressure, Tubing, PSIG 945
Flowing Pressure, P, PSIG 215	Working Pressure, Pw, PSIG 632
Temperature, T, F 72	Gravity, Fg 0.9759
Fracturing Fluid, Ff, .9887	Fracturing Fluid, Fg, 1.019

CHOKE VOLUME $Q = C \times P_r \times F_f \times F_g \times F_{fv}$

$$Q = (12.365)(227)(.9887)(.9759)(1.019)$$

2760

MCF/D

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

$$AOF = \left(\frac{893,025}{493,601} \right)^n$$

$$(2760)(1.8092)^{.75} = (2760)(1.5600)$$

AOF 4306

MCF/D



W. D. Dawson

NOTE: Blew very light mist of water and distillate during entire test.

Checked by: R. L. Nickell, Jr.

H. L. Kendrick
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