

EL PASO NATURAL GAS COMPANY
OPEN FLOW TEST DATA

DATE November 6, 1963

Operator El Paso Natural Gas Company	Lease Goede No. 3
Location 1650'S, 800'E, Sec. 29, T-30-N, R-9-W	County San Juan State New Mexico
Formation Pictured Cliffs	Strat. Blanco
Casing Diameter 2.875 Set At Feet 2637	Tubing I.D. (inches) No Tubing Set At Feet ----
Pay Zone (feet) 2518 To 2564	Total Depth 2645 Strat. In. 10-27-63
Stimulation Method Sand/Water Frac.	Flow Through Casing X Flow Through Tubing ----

Choke Size, (inches) 0.750	Choke Constant 12.365	"TUBINGLESS COMPLETION"	
Shut-In Pressure, (psia) 853	Flowing Pressure, (psia) 309	Flowing Pressure, (psia) Tubing No Tubing	Flowing Pressure, (psia) Tubing ----
Flowing Pressure, (psia) 297	Flowing Pressure, (psia) Calc. 309	Flowing Pressure, (psia) Calc. calc.	Flowing Pressure, (psia) Calc. 380
Temperature T 69 F	Temperature T 69 F	Temperature T 69 F	Temperature T 69 F
Gravity .9915	Gravity .85	Gravity 1.034	Gravity .690 F .9325

CHOKE VOLUME $Q = C \times \sqrt{P_1 - P_2} \times \sqrt{P_2 - P_w} \times \sqrt{P_w - P_{wf}}$

$C = 12.365 \times 309 \times .9915 \times .9325 \times 1.034$

3653

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OPEN FLOW $Q = C \times \sqrt{P_1 - P_2} \times \sqrt{P_2 - P_w} \times \sqrt{P_w - P_{wf}}$

$$\left(\frac{P_1^2 - P_2^2}{P_2^2 - P_w^2} \right)^n$$

$$\left(\frac{748,225}{603,825} \right)^n$$

$$1.2391^{.85} \times 3653 = 1.2000 \times 3653$$



NOTE: Light spray of distillate throughout the test.

ACF/D 4384

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TESTED BY **D. R. Roberts**

Calculated by **T. B. Grant**

Checked by **W. D. Dawson**

Lewis D. Galloway
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