

OPEN FLOW TEST DATA

Date: February 6, 1956

Operator: El Paso Natural Gas Company Lease: San Juan 32-9 Unit No. 28

Location: 1650 N., 1650 W., Sec. 26, T32N, R10W County: San Juan State: N.M.

Formation: Mesa Verde Pool: Blanco

Casing 5 1/2 "set @ 3820 ' Tubing 2 "set @ 6302 ' Perforations 6360

Pay Zone: 5689 ' to 6322 ' Total Depth: 6360 '

Stimulation Method: Sand Water Frac.

Choke Size: .750 " Choke Constant = C = 14.1605

Flow Through: Casing _____ Tubing X

Shut In Pressure Casing: 975 psig / 12 = 987 psia (Shut in 16 days)

Shut In Pressure Tubing: 864 psig / 12 = 876 psia

Flowing Pressure: P : 345 psig / 12 = 357 psia

Working Pressure: P_w : 863 psig / 12 = 875

Temperature: T : 72 °F / 460 = 532 °Absolute

F_{pv} (from tables) : 1.033 Gravity .650 est. n 0.75

$$\text{Choke Volume} = Q = \frac{C \times P_c \times F_t \times F_g \times F_{pv}}{\sqrt{\dots}}$$

$$Q = \frac{14.1605 \times 357 \times .9887 \times .9608 \times 1.033}{\dots} = 4961 \text{ MCF/D}$$

$$\text{Open Flow} = Aof = Q \left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n$$

$$Aof = 4961 \left[\frac{974,169}{208,544} \right]^{.75} = 4961 (4.67)^{.75} = 4961 \times 3.18$$

$$Aof = 15,776 \text{ MCF/D}$$

Tested by: D. W. Mitchell

Witnessed by: _____



I. D. Galloway

OIL COMPANY		COMMISSION	
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...	...	3	...
...	...	1	...
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