

OPEN FLOW TEST DATA

DATE November 20, 1956

Operator El Paso Natural Gas Company	San Juan 32-9 Unit #40
Location 890'S & W, Sec. 30-32-9	San Juan New Mexico
Formation Mesaverde	Blanco Mesaverde
Casing Diameter 5 1/2"	Tubing Diameter 2"
Set At: Feet 5911	Set At: Feet 5842
Pay Zone: From 5423	Total Length 5920 c/o 5860
To 5842	Flow Through Casing X
Stimulation Method Sand Water Frac	Flow Through Tubing X

Choke Size, inches 0.75	Choke Constant, C 14.1605
Shut-In Pressure, Casing, PSIG 963	Shut-In Pressure, Tubing, PSIG 968
PSIA 975	PSIA 980
Flowing Pressure, Casing, PSIG 292	Flowing Pressure, Tubing, PSIG 727
PSIA 304	PSIA 739
Temperature, F 50 (est.)	Gravity 665 (est.)
.75	1.034

CHOKE VOLUME $Q = C \times P_c \times P_w \times F_v \times F_g$

$$Q = 14.1605 \times 304 \times 1.0098 \times .9498 \times 1.034 \quad 4269 \quad \text{MCF/D}$$

$$\text{OPEN FLOW } Q_o = C \left(\frac{P_c^2 - P_w^2}{P_c - P_w} \right)^n$$

$$Q_o = \left(\frac{960,400 - 414,279}{960,400 - 414,279} \right)^n \quad 2.3182 \times 4269 = 1.878 \times 4269$$

$$Q_o = 8017 \text{ MCF/D}$$

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