

EL PASO NATURAL GAS COMPANY

OPEN FLOW TEST DATA

DATE 6-29-70

Operator EL PASO NATURAL GAS COMPANY		Lease San Juan 30-6 Unit No. 64 OWWO	
Location 990 N, 1090 E, S 11 T30N, R7W		County Rio Arriba	State New Mexico
Formation Mesa Verde		Pool Blanco	
Casing: Diameter 4.000	Set At: Feet 6399	Tubing: Diameter 2.375	Set At: Feet 6202
Pay Zone: From 5319	To 6228	Total Depth: 6399	Shut In 6-13-70
Stimulation Method LWP		Flow Through Casing	Flow Through Tubing XX

Choke Size, Inches .750		Choke Constant: C 12.365			
Shut-In Pressure, Casing, PSIG 768	+ 12 = PSIA 780	Days Shut-In 16	Shut-In Pressure, Tubing PSIG 852	+ 12 = PSIA 864	
Flowing Pressure: P PSIG 203	+ 12 = PSIA 215		Working Pressure: P _w PSIG 680	+ 12 = PSIA 692	
Temperature: T = 65 °F	n = .75		Fpv (From Tables) 1.021	Gravity .660	Fg = .9535

$$\text{CHOKE VOLUME} = Q = C \times P_t \times F_t \times F_g \times F_{pv}$$

$$Q = 12.365 \times 215 \times .9952 \times 1.021 \times .9535 = 2576 \text{ MCF/D}$$

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

Note: heavy fog for 20 min. then light fog of water and dist. for rest of test.

$$Aof = \left(\frac{746496}{267632} \right)^n = (2.7892)^{.75} \times 2576 = 2.1583 \times 2576$$

$$Aof = 5559 \text{ MCF/D}$$

TESTED BY B. J. Broughton

WITNESSED BY



H. L. Kendrick
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