

EL PASO NATURAL GAS COMPANY
OPEN FLOW TEST DATA

DATE May 3, 1972

Operator EL PASO NATURAL GAS COMPANY		Lease San Juan 27-4 Unit No. 60	
Location 990 E - 990 N Sec. 21-27N-4W		County Rio Arriba	State New Mexico
Formation Dakota		Pool Basin	
Casing: Diameter 4.500	Set At: Feet 8483	Tubing: Diameter 1.900	Set At: Feet 8421
Pay Zone: From 8210	To 8460	Total Depth: 8483	Shut In 4-26-72
Sealation Method SWF		Flow Through Casing XXX	Flow Through Tubing

Choke Size, Inches 0.750		Choke Constant: C 12.365			
Shut-In Pressure, Casing, PSIG 2570	+ 12 = PSIA 2582	Days Shut-In 14	Shut-In Pressure, Tubing PSIG 2594	+ 12 = PSIA 2606	
Flowing Pressure: P MR. 47 W/H 187	+ 12 = PSIA MR. 59 W/H 199		Working Pressure: P _w PSIG 452	+ 12 = PSIA 464	
Temperature: T = 77 °F F _t = .9840	n = .75		F _{pv} (From Tables) 1.004	Gravity .695 F _g = 1.200	

$$\text{CHOKE VOLUME} = Q = C \times P_i \times F_i \times F_g \times F_{pv}$$

$$Q = (41.10)(5.70)(2.4)(3.162)(.9840)(1.200)(1.004) \quad 2108 \quad \text{MCF/D}$$

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

NOTE: Flowed 21 Bbls. of 54 Gravity Oil.

$$Aof = \left(\frac{6791236}{6575940} \right)^n = (2108)(1.0327)^{.75} = (2108)(1.0245)$$

$$Aof = \underline{2159} \quad \text{MCF/D}$$

TESTED BY Jesse B. Goodwin

WITNESSED BY _____

J. A. Jones
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