

EL PASO NATURAL GAS COMPANY
OPEN FLOW TEST DATA

DATE 12-29-71

Operator EL PASO NATURAL GAS COMPANY		Lease San Juan 28-7 Unit No. 154	
Location 1566 N, 1650 E, 17-27N-7W		County Rio Arriba	State New Mexico
Formation Dakota		Pool Basin	
Casing: Diameter 4.500	Set At: Feet 7941	Tubing: Diameter 2.375	Set At: Feet 7844
Pay Zone: From 7670	To 7886	Total Depth: 7941	Shut In 12-10-71
Stimulation Method S W F		Flow Through Casing	Flow Through Tubing XXX

Plate Choke Size, Inches 4" M.R.; 2.750" Plate		Choke Constant: C 41.10		Tested through a 3/4" Variable choke	
Shut-In Pressure, Casing, PSIG 2483	+ 12 = PSIA 2495	Days Shut-In 19	Shut-In Pressure, Tubing PSIG 2080	+ 12 = PSIA 2092	
Flowing Pressure: P PSIG 235 W.H.; 46 M.R.	+ 12 = PSIA 247 W.H.; 58 M.R.		Working Pressure: P _w PSIG 646	+ 12 = PSIA 658	
Temperature: T = 75 °F	F _t = 0.9859	n = .75	F _{pv} (From Tables) 1.004	Gravity .650	F _g = 1.2403

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

$$Q = \text{Calculated from orifice meter readings} = 1769 \text{ MCF/D}$$

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

Note: The well produced 22.09 bbls. of 45.3 API oil during the test.

$$Aof = \left(\frac{6225025}{5792061} \right)^n = (1769) (1.0748)^{.75} = (1769) (1.0556)$$

$$Aof = 1867 \text{ MCF/D}$$

TESTED BY Jessy B. Goodwin

WITNESSED BY _____



H. E. McAnally
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