

EL PASO NATURAL GAS COMPANY
OPEN FLOW TEST DATA

DATE 7-21-71

Operator El Paso Natural Gas Company		Lease San Juan 28-6 Unit No. 154	
Location 810' S, 1650' W, S 27, T28N, R6W		County Rio Arriba	State New Mexico
Formation Dakota		Pool Basin	
Casing: Diameter 4.500	Set At: Feet 7842	Tubing: Diameter 1.990	Set At: Feet 7800
Pay Zone: From 7590	To 7810	Total Depth: 7842	Shut In 7-13-71
Stimulation Method S W F		Flow Through Casing XXX	Flow Through Tubing

Choke Size, Inches .750		Choke Constant: C 12.365			
Shut-In Pressure, Casing, PSIG 2649	+ 12 = PSIA 2661	Days Shut-In 8	Shut-In Pressure, Tubing PSIG 2378	+ 12 = PSIA 2390	
Flowing Pressure: P PSIG 546	+ 12 = PSIA 558		Working Pressure: Pw PSIG 852	+ 12 = PSIA 864	
Temperature: T = 88 °F Ft = .9741	n = .75		Fpv (From Tables) 1.045	Gravity .620 Fg = .9837	

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

$$Q = 12.365 \times 558 \times .9741 \times .9837 \times 1.045 = 6909 \text{ MCF/D}$$

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

Note: Well blew light spray to water throughout test.

$$Aof = \left(\frac{7080921}{6334425} \right)^n = 6909(1.1178)^{.75} = 6909(1.0871)$$

$$Aof = 7511 \text{ MCF/D}$$

TESTED BY B. J. Broughton

WITNESSED BY



H. E. McNally