

EL PASO NATURAL GAS COMPANY
OPEN FLOW TEST DATA

DATE April 14, 1972

Operator EL PASO NATURAL GAS COMPANY		Lease San Juan 29-5 Unit No. 58	
Location 800 S 1500 W Sec. 30- 29N - 5W		County Rio Arriba	State N. M.
Formation Dakota		Pool Basin	
Casing: Diameter 4.500	Set At: Feet 7875	Tubing: Diameter 1.500	Set At: Feet 7810
Pay Zone: From 7714	To 7822	Total Depth: 7875	Shut In 4-7-72
Stimulation Method SWF		Flow Through Casing XXX	Flow Through Tubing

Choke Size, Inches .750	Choke Constant: C 12.365			
Shut-In Pressure, Casing, PSIG 2600	+ 12 = PSIA 2612	Days Shut-In 7	Shut-In Pressure, Tubing PSIG 2227	+ 12 = PSIA 2239
Flowing Pressure: P PSIG 160	+ 12 = PSIA 172		Working Pressure: Pw PSIG 322	+ 12 = PSIA 334
Temperature: T = 68 °F	n = .75		Fpv (From Tables) 1.013	Gravity .590 Fg = 1.008

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

$$Q = (12.365)(172)(.9924)(1.008)(1.013) = 2155 \text{ MCF/D}$$

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

NOTE: The produced a heavy spray of water and distillates throughout the test.

$$Aof = \left(\frac{6822544}{6710988} \right)^n = (1.0166)^{.75}(2155) = (1.0124)(2155) =$$

$$Aof = 2182 \text{ MCF/D}$$

TESTED BY D.R.R.

WITNESSED BY



H. E. McAnally