

OCC

EL PASO NATURAL GAS COMPANY
OPEN FLOW TEST DATA

DATE 12/11/72

Operator EL PASO NATURAL GAS COMPANY		Lease San Juan 28-6 Unit #130	
Location 1110/N, 1000/E, Sec. 32, T28N, R6W		County Rio Arriba	State NM
Formation Dakota		Pool Basin	
Casing: Diameter 4.500	Set At: Feet 7730	Tubing: Diameter 1.990	Set At: Feet 7699
Pay Zone: From 7492	To 7702	Total Depth: 7730	Shut In 12/2/72
Stimulation Method SWF		Flow Through Casing X	Flow Through Tubing

Choke Size, Inches 0.750		Choke Constant: C 12.365			
Shut-In Pressure, Casing, PSIG 2563	+ 12 = PSIA 2575	Days Shut-In 9	Shut-In Pressure, Tubing PSIG 2545	+ 12 = PSIA 2557	
Flowing Pressure: P PSIG 237	+ 12 = PSIA 249		Working Pressure: Pw PSIG 494	+ 12 = PSIA 506	
Temperature: T = 72 °F Ft = .9887	n = .75		Fpv (From Tables) 1.020	Gravity .620	Fg = .9837

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

$$Q = (12.365)(249)(.9887)(.9837)(1.020) = \underline{3054} \text{ MCF/D}$$

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

$$Aof = Q \left(\frac{6630625}{6374589} \right)^n = (3054)(1.0402)^{.75} = (3054)(1.0300)$$

$$Aof = \underline{3146} \text{ MCF/D}$$

NOTE: The well produced a heavy fog of distillate and water throughout the test.

TESTED BY T. D. Norton

WITNESSED BY _____

William D Welch

William D. Welch
Well Test Engineer

