

OCC

EL PASO NATURAL GAS COMPANY
OPEN FLOW TEST DATA

DATE 2/6/73

Operator El Paso Natural Gas Company		Lease San Juan 28-6 Unit #135	
Location 1180/S, 1830/W, Sec. 6, T27N, R6W		County Rio Arriba	State NM
Formation Dakota		Pool Easin	
Casing: Diameter 4.500	Set At: Feet 7312	Tubing: Diameter 1.990	Set At: Feet 7267
Pay Zone: From 7076	To 7282	Total Depth: 7312	Shut In 11/30/72
Stimulation Method SWF		Flow Through Casing X	Flow Through Tubing

Choke Size, Inches .750		Choke Constant: C 12.365			
Shut-In Pressure, Casing, PSIG 2643	+ 12 = PSIA 2655	Days Shut-In 37	Shut-In Pressure, Tubing PSIG 2078	+ 12 = PSIA 2090	
Flowing Pressure: P PSIG 323	+ 12 = PSIA 335		Working Pressure: P _w PSIG 500	+ 12 = PSIA 512	
Temperature: T = 62 °F	n = Ft = .9981		F _{pv} (From Tables) 1.029	Gravity .620	F _g = .9837

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

$$Q = (12.365)(335)(.9981)(.9837)(1.029) = \underline{4185} \text{ MCF/D}$$

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

$$Aof = Q \left(\frac{7049025}{6786881} \right)^n = 4185 (1.0386)^{.75} = 4185 (1.0288)$$

$$Aof = \underline{4306} \text{ MCF/D}$$

NOTE: Blew Heavy fog of water and light hydrocarbon

TESTED BY Jesse B. Goodwin

WITNESSED BY _____

William D. Welch
William D. Welch
Well Test Engineer

