

EL PASO NATURAL GAS COMPANY
OPEN FLOW TEST DATA

OCC

DATE 12/18/72

Operator EL PASO NATURAL GAS COMPANY		Lease Roelofs A #6	
Location 1150/S, 1460/W, Sec. 22, T29N, R8W		County San Juan	State NM
Formation Pictured Cliffs		Pool Blanco	
Casing: Diameter 2.875	Set At: Feet 3162	Tubing: Diameter No tubing	Set At: Feet
Pay Zone: From 3050	To 3084	Total Depth: 3162	Shut In 12/4/72
Stimulation Method SWF		Flow Through Casing X	Flow Through Tubing

Choke Size, Inches .750		Choke Constant: C 12.365		Tubingless Completion	
Shut-In Pressure, Casing, PSIG 1040	+ 12 = PSIA 1052	Days Shut-In 12	Shut-In Pressure, Tubing PSIG	+ 12 = PSIA	
Flowing Pressure: P PSIG 105	+ 12 = PSIA 117	Working Pressure: P _w PSIG	Calculated	+ 12 = PSIA 148	
Temperature: T = 58 °F Ft = 1.002	n = .85	F _{pv} (From Tables) 1.010	Gravity .645	F _g = .9645	

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

$$Q = (12.365)(117)(1.002)(.9645)(1.010) = 1412 \text{ MCF/D}$$

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

$$Aof = Q \left(\frac{1106704}{1084800} \right)^n = 1412 (1.0202)^{.85} = 1412 (1.0171)$$

$$Aof = 1436 \text{ MCF/D}$$

NOTE: Well blew dry gas throughout test.

TESTED BY Roger Hardy

WITNESSED BY

William D. Welch
William D. Welch
Well Test Engineer

