

EL PASO NATURAL GAS COMPANY
OPEN FLOW TEST DATADATE August 17, 1976

Operator El Paso Natural Gas Company		Lease San Juan 29-4 Unit #7	
Location NW/4, Sec. 8, T29N, R4W		County Rio Arriba	State New Mexico
Formation Pictured Cliffs		Pool	
Casing: Diameter 5"	Set At: Feet 6555'	Tubing: Diameter --	Set At: Feet
Pay Zone: From 4056'	To 4300'	Total Depth:	Shut In
Stimulation Method Sandwater Fracture		Flow Through Casing XX	Flow Through Tubing

Choke Size, Inches 3/4"		Choke Constant: C 12,365			
Shut-In Pressure, Casing, PSIG 1170	+ 12 = PSIA 1182	Days Shut-In	Shut-In Pressure, Tubing PSIG --	+ 12 = PSIA --	
Flowing Pressure: P PSIG 121	+ 12 = PSIA 133		Working Pressure: P _w PSIG Calculated	+ 12 = PSIA 135	
Temperature: T = 52 °F	F _t = 1.008	n = .85	F _{pv} (From Tables) 1.013	Gravity .650	F _g = .9608

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

$$Q = (12,365)(133)(1.008)(.9608)(1.013) = \underline{1613} \text{ MCF/D}$$

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

$$Aof = Q \left(\frac{1397124}{1378899} \right)^n = 1613(1.0132)^{.85} = 1613(1.0112)$$

$$Aof = \underline{1631} \text{ MCF/D}$$

Note: This well is not connected to pipeline.

TESTED BY C. R. Wagner

WITNESSED BY _____

Packer leaking

C. R. Wagner
Well Test Engineer

