

EL PASO NATURAL GAS COMPANY
OPEN FLOW TEST DATA

DATE April 24, 1974

Operator El Paso Natural Gas Company		Lease San Juan 28-7 Unit #176 (CH)	
Location 1695/N, 1650/W, Sec. 29, T27N, R7W		County Rio Arriba	State New Mexico
Formation Chacra		Pool Undes	
Casing: Diameter 2.875	Set At: Feet 4027'	Tubing: Diameter No Tubing	Set At: Feet --
Pay Zone: From 3822	To 3966	Total Depth: PBTD 4027' 4017'	Shut In 4-5-74
Stimulation Method Sandwater Frac		Flow Through Casing XX	Flow Through Tubing

Choke Size, Inches .75		Choke Constant: C 12,365		Tubingless Completion	
Shut-In Pressure, Casing, PSIG 1023	+ 12 = PSIA 1035	Days Shut-In 19	Shut-In Pressure, Tubing PSIG No Tubing	+ 12 = PSIA --	
Flowing Pressure: P PSIG 85	+ 12 = PSIA 97		Working Pressure: Pw PSIG Calculated	+ 12 = PSIA 127	
Temperature: T = 58 °F	n = .75		Fpv (From Tables) 1.0090	Gravity .655	Fg = .9571

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

$$Q = 12.365(97)(1.0019)(.9571)(1.0090) = \underline{1160} \text{ MCF/D}$$

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

$$Aof = Q \left(\frac{1071225}{1055096} \right)^n = 1160(1.0153)^{.75} = 1160(1.0114)$$

$$Aof = \underline{1174} \text{ MCF/D}$$

Note: The well blew dry gas throughout the test.

TESTED BY Hardy

WITNESSED BY _____

Loren W. Fothergill
Loren W. Fothergill
Well Test Engineer

