

EL PASO NATURAL GAS COMPANY
OPEN FLOW TEST DATA

DATE December 10, 1974

Operator El Paso Natural Gas Company		Lease San Juan 27-4 Unit #82	
Location 1800/N, 800/E, Sec. 26, T27N, R4W		County Rio Arriba	State New Mexico
Formation Pictured Cliffs		Pool Tapacito	
Casing: Diameter 2.875	Set At: Feet 4175'	Tubing: Diameter No Tubing	Set At: Feet --
Pay Zone: From 4016'	To 4096'	Total Depth: PBD 4175' 4163'	Shut In 11-18-74
Stimulation Method Sandwater Frac		Flow Through Casing XX	Flow Through Tubing

Choke Size, Inches .750		Choke Constant: C 12.365		Tubingless Completion	
Shut-In Pressure, Casing, PSIG 1087	+ 12 = PSIA 1099	Days Shut-In 22	Shut-In Pressure, Tubing PSIG No Tubing	+ 12 = PSIA --	
Flowing Pressure: P PSIG 147	+ 12 = PSIA 159		Working Pressure: Pw PSIG Calculated	+ 12 = PSIA 212	
Temperature: T = 58 °F	n = .85		Fpv (From Tables) 1.016	Gravity .680	Fg .9393

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

$$Q = 12.365(159)(1.002)(0.9393)(1.016) = 1880 \text{ MCF/D}$$

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

$$Aof = Q \left(\frac{1207801}{1162857} \right)^n = 1880(1.0387)^{.85} = 1880(1.0328)$$

$$Aof = 1942 \text{ MCF/D}$$

Note: The well blew a clear gas.

TESTED BY D. Norton

WITNESSED BY

Loren W. Fothergill
Loren W. Fothergill
Well Test Engineer

