

EL PASO NATURAL GAS COMPANY
OPEN FLOW TEST DATA

DATE December 13, 1973

Operator El Paso Natural Gas Company		Lease Rincon Unit #195	
Location 1460/N, 1750/E, Sec. 19, T27N, R6W		County Rio Arriba	State New Mexico
Formation Pictured Cliffs		Pool So. Blanco	
Casing: Diameter 2.875	Set At: Feet 3193'	Tubing: Diameter No Tubing	Set At: Feet
Pay Zone: From 3040	To 3114	Total Depth: 3193	Shut In 12-5-73
Stimulation Method Sandwater Frac		Flow Through Casing X	Flow Through Tubing

Choke Size, Inches .750		Choke Constant: C 12.365		Tubingless Completion	
Shut-In Pressure, Casing, PSIG 1042	+ 12 = PSIA 1054	Days Shut-In 7	Shut-In Pressure, Tubing PSIG No Tubing	+ 12 = PSIA	
Flowing Pressure: P PSIG 129	+ 12 = PSIA 141		Working Pressure: P _w PSIG Calculated	+ 12 = PSIA 179	
Temperature: T = 55 °F	F _t = 1.005	n = .85	F _p (From Tables) 1.013	Gravity .655	F _g = .9571

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

$$Q = (12.365)(141)(1.005)(.9571)(1.013) = \underline{1699} \text{ MCF/D}$$

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

$$Aof = Q \left(\frac{1110916}{1078875} \right)^n = 1699(1.0297)^{.85} = 1699(1.01252)$$

$$Aof = \underline{1742} \text{ MCF/D}$$

Note: Well produced dry gas.

TESTED BY Norton

WITNESSED BY _____



William D. Welch

William D. Welch
Well Test Engineer