

EL PASO NATURAL GAS COMPANY
OPEN FLOW TEST DATADATE October 19, 1973

Operator El Paso Natural Gas Company		Lease San Juan 27-5 Unit #157	
Location 1090/S, 1600/E, Sec. 24, T27N, R5W		County Rio Arriba	State New Mexico
Formation Pictured Cliffs		Pool Tapacito	
Casing: Diameter 2.875	Set At: Feet 3628'	Tubing: Diameter No Tubing	Set At: Feet
Pay Zone: From 3428	To 3494	Total Depth: 3628	Shut In 9-18-73
Stimulation Method Sandwater Frac		Flow Through Casing X	Flow Through Tubing

Casing Size, Inches Orifice 4" 2.500		Choke Constant: C 32.64		Tubingless Completion	
Shut-In Pressure, Casing, PSIG 1053	+ 12 = PSIA 1065	Days Shut-In 30	Shut-In Pressure, Tubing PSIG No Tubing	+ 12 = PSIA	
Flowing Pressure: P PSIG WH 143 MR 53	+ 12 = PSIA WH 155 MR 65	Working Pressure: Pw PSIG Calculated	+ 12 = PSIA 120		
Temperature: T = 66 °F F = .9943	n = .85	Fpv (From Tables) 1.009	Gravity .655	Fg = .9571	

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

$$Q = \text{Calculated from meter readings} = 1485 \text{ MCF/D}$$

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

$$Aof = Q \left(\frac{1134225}{1119825} \right)^n = 1485 (1.0129)^{.85} = 1485 (1.0109)$$

$$Aof = 1501 \text{ MCF/D}$$

Note: Well produced 0.4 bbl. water.

TESTED BY Norton

WITNESSED BY _____



William D. Welch
 William D. Welch
 Well Test Engineer