

EL PASO NATURAL GAS COMPANY
OPEN FLOW TEST DATA

DATE April 30, 1970

Operator El Paso Natural Gas Company		Lease Lackey No. 2	
Location 1560'S, 1825'W, Sec. 26, T-28-N, R-9-W		County San Juan	State New Mexico
Formation Chacara		Pool Undesignated	
Casing: Diameter 2.75	Set At: Feet 3392	Tubing: Diameter No Tubing	Set At: Feet
Pay Zone: From 1156	To 3334	Total Depth: 3392	Shut In 4-21-70
Stimulation Method Sand Water Proc		Flow Through Casing XX	Flow Through Tubing

Choke Size, Inches 0.750		Choke Constant: C 12.365		Tubingless Completion	
Shut-In Pressure, Casing, PSIG 1015	+ 12 = PSIA 1027	Days Shut-In 9	Shut-In Pressure, Tubing PSIG No Tubing	+ 12 = PSIA	
Flowing Pressure: P PSIG 95	+ 12 = PSIA 107	Working Pressure: Pw PSIG Calc.	+ 12 = PSIA 136		
Temperature: T = 64 °F	n = .75	Fpv (From Tables) 1.007	Gravity .645 Fg = .9645		

$$\text{CHOKE VOLUME} = Q = C \times P_1 \times F_1 \times F_g \times F_{pv}$$

$$Q = (12.365)(107)(.9962)(.9645)(1.007) = 1280 \text{ MCF/D}$$

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

$$Aof = \left(\frac{1054729}{1036233} \right)^n = (1280)(1.0173)^{.75} = (1280)(1.0133)$$

Note: Blew light fog of H₂O for three hours.

$$Aof = 1297 \text{ MCF/D}$$

TESTED BY J. B. Goodwin

WITNESSED BY

RECEIVED
MAY 3 1970
OIL FIELD DIV
DIST. 3

H. L. Kendrick
H. L. Kendrick