

EL PASO NATURAL GAS COMPANY
OPEN FLOW TEST DATADATE June 20, 1961

Operator El Paso Natural Gas Company		Lease Jicarilla "F" No. 13	
Location 1760'N, 1085'W, Sec. 16-26N-5W		County Rio Arriba	State New Mexico
Formation Pictured Cliffs		Pool South Blanco PC	
Casing: Diameter 2-7/8" O.D.	Set At: Feet 3243	Tubing: Diameter No Tubing	Set At: Feet ----
Pay Zone: From 3113	To 3175	Total Depth: 3250 C/O 3236	Shut In 6-11-61
Stimulation Method Sand/Water Frac.		Flow Through Casing X	Flow Through Tubing

Choke Size, inches 0.750		Choke Constant: C 12.365		Tubingless Completion	
Shut-In Pressure, Casing, PSIG 983	+ 12 - PSIA	Days Shut-In 9	Shut-In Pressure, Tubing, PSIG No Tubing	+ 12 - PSIA	----
Flowing Pressure: P, PSIG 191	+ 12 - PSIA	Working Pressure: Pw, PSIG Calc. 258			
Temperature, °F 64	F _g .9962	F _{pv} (From Tables) 1.021	Gravity .670	F _g .9463	

CHOKE VOLUME: $Q = C \times P_c \times F_g \times F_p \times F_{pv}$

$$Q = (12.365)(203)(.9962)(.9463)(1.021) = 2416 \text{ MCF/D}$$

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

$$A_{of} = \left(\frac{990025}{923461} \right)^n (1.0720)^{.88} (2416) = (1.0609)(2416)$$

$$A_{of} = 2563 \text{ MCF/D}$$

TESTED BY C. R. Wagner

WITNESSED BY

Checked by: W. D. Dawson

Lewis D. Galloway
L. D. Galloway