

EL PASO NATURAL GAS COMPANY
OPEN FLOW TEST DATA

DATE September 15, 1964

Operator El Paso Natural Gas Company		Lease Schwerdtfeger No. 21-A	
Well No. 36-28-9		County San Juan	State New Mexico
Field South Blanco		Pool South Blanco	
Casing Size 2.0	Set At: Feet 2257	Tubing: Diameter 1.315	Set At: Feet
Pay Zone: From 2257	To 2180	Total Depth: 2257	Shut In 9-7-64
Stimulation Method None		Flow Through Casing X	Flow Through Tubing

Choke Size, inches 0.75	Choke Constant: C 12.365		Tubingless Completion	
Shut-in Pressure, Casing, PSIG 722	+ 12 = PSIA 734	Days Shut-in 8	Shut-in Pressure, Tubing No Tubing, PSIG	+ 12 = PSIA
Flowing Pressure: P, PSIG 275	+ 12 = PSIA 287		Working Pressure: P _w (Calc.), PSIG	+ 12 = PSIA 344
Temperature: T = 64 °F	F _t = .9962	n = .85	F _{pv} (From Tables) 1.025	Gravity .625 F _g = .9798

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

$$Q = (12.365) (287) (.9962) (.9798) (1.025) = 3550 \text{ MCF/D}$$

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

$$Aof = \left(\frac{538,756}{420,420} \right)^{.85} = (1.2814)^{.85} (3550) = (1.2346) (3550)$$

$$Aof = 4,383 \text{ MCF/D}$$

NOTE: Well produced dry gas throughout the test.

TESTED BY Herman E. McAnally
CHECKED BY W. D. Dawson
WITNESSED BY _____

RECEIVED
SEP 18 1964
OIL CON. COM.
DIST. 3
Lewis D. Galloway
Lewis D. Galloway