

EL PASO NATURAL GAS COMPANY
OPEN FLOW TEST DATADATE 8/24/72

Operator El Paso Natural Gas Company		Lease Mansfield #11	
Location 330/s, 1840/L, Sec. 29-T30N-R9W		County San Juan	State New Mexico
Formation Dakota		Pool Basin	
Casing: Diameter 4.500	Set At: Feet 7253	Tubing: Diameter 2.375	Set At: Feet 7150
Pay Zone: From 6893	To 7164	Total Depth: 7253	Shut In 8/17/72
Stimulation Method SWP		Flow Through Casing	Flow Through Tubing XX

Choke Size, Inches .750		Choke Constant: C 12.365			
Shut-In Pressure, Casing, PSIG 2054	+ 12 = PSIA 2066	Days Shut-In 7	Shut-In Pressure, Tubing PSIG 1837	+ 12 = PSIA 1849	
Flowing Pressure: P PSIG 147	+ 12 = PSIA 159		Working Pressure: Pw PSIG 566	+ 12 = PSIA 578	
Temperature: T = 71 °F	Ft = .9896	n = .75	Fpv (From Tables) 1.012	Gravity .610	Fg = .9918

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

$$Q = (12.365)(159)(.9896)(.9918)(1.012) = 1953 \text{ MCF/D}$$

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

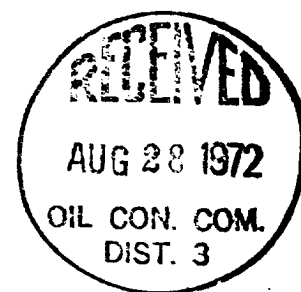
$$Aof = \left(\frac{4 \ 268 \ 356}{3 \ 934 \ 272} \right)^n = (1953)(1.0849)^{.75} = (1953)(1.0660)$$

$$Aof = 2076 \text{ MCF/D}$$

NOTE: Well produced a medium mist of water with some distillate through-out test.

TESTED BY B. J. Broughton

WITNESSED BY _____



J. A. Jones
J. A. Jones
Well Test Engineer