

EL PASO NATURAL GAS COMPANY
OPEN FLOW TEST DATA

DATE 10/9/72

Operator EL PASO NATURAL GAS COMPANY		Lease Riddle "B" #2 (OWWO)	
Location 1650/N, 890/E, Sec. 23-T30N-R10W		County San Juan	State NM
Formation Mesa Verde		Pool Blanco	
Casing: Diameter 4.500	Set At: Feet 5525	Tubing: Diameter	Set At: Feet 5490
Pay Zone: From 4530	To 5498	Total Depth: 5525	Shut In 10/1/72
Stimulation Method SWF		Flow Through Casing	Flow Through Tubing X

Choke Size, Inches .750		Choke Constant: C 12.365			
Shut-In Pressure, Casing, PSIG 830	+ 12 = PSIA 842	Days Shut-In 8	Shut-In Pressure, Tubing PSIG 708	+ 12 = PSIA 720	
Flowing Pressure: P PSIG 255	+ 12 = PSIA 267		Working Pressure: P _w PSIG 715	+ 12 = PSIA 727	
Temperature: T = 70 °F	F _t = .9905	n = .75	F _{pv} (From Tables) 1.028	Gravity .696	F _g = .9285

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

$$Q = (12.365)(267)(.9905)(.9285)(1.028) = 3121 \text{ MCF/D}$$

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

$$Aof = \left(\frac{708 \ 964}{180 \ 435} \right)^n = (3121)(3.9292)^{.75} = (3121)(2.7908)$$

$$Aof = 8711 \text{ MCF/D}$$

NOTE: Well unloaded a heavy fog of distillate and water in 3 minutes then produced light mist of distillate and water throughout test.

TESTED BY Don Norton

WITNESSED BY

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

