

EL PASO NATURAL GAS COMPANY
OPEN FLOW TEST DATA

Well Identification

DATE 11-3-66

Operator El Paso Natural Gas Company		Lease Allison Unit No. 11-X (DK) (OWWO)	
Location 917-N, 10861-W, Sec. 25, E-32-N, R-7-W		County San Juan	State New Mexico
Formation Bakota		Pool Basin	
Casing: Diameter 5.500	Set At: Feet 8475	Tubing: Diameter 2.375	Set At: Feet 8264
Pay Zone: From 8291	To 8364	Total Depth: 8503	Shut In 10-25-66
Stimulation Method Sand Water Frac		Flow Through Casing	Flow Through Tubing X

Choke Size, Inches .750	Choke Constant: C 12.365	Baker Model "F" Packer at 6115	
Shut-In Pressure, Casing, PSIG 828 (MW)	+ 12 = PSIA 840 (MW)	Days Shut-In 9	Shut-In Pressure, Tubing PSIG 1566 (DK)
Flowing Pressure: P PSIG 125	+ 12 = PSIA 137	Working Pressure: P _w PSIG Calc.	+ 12 = PSIA 310
Temperature: T = 64 °F	n = .75	F _{pv} (From Tables) 1.010	Gravity .605 F _g = .9958

PSIPC (MW) = 830 psig

$$\text{CHOKE VOLUME} = Q = C \times P_r \times F_r \times F_g \times F_{pv}$$

$$Q = (12.365)(137)(.9962)(.9958)(1.010) = 1697 \text{ MCF/D}$$

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

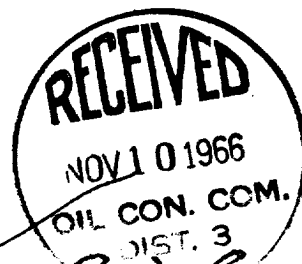
$$Aof = \left(\frac{2490084}{2393984} \right)^n = (1697)(1.0401)^{.75} = (1697)(1.0300)$$

NOTE: The well produced a very light spray of dist. throughout the test.

$$Aof = 1748 \text{ MCF/D}$$

TESTED BY R. F. Kendrick

WITNESSED BY T. B. Grant



H. L. Kendrick