

EL PASO NATURAL GAS COMPANY
OPEN FLOW TEST DATA

DATE July 9, 1964

Operator El Paso Natural Gas Company		Lease Lindsey No. 2 (OWWO)	
Location 790'N, 1450'E, Sec. 11, T-30-N, R-9-W		County San Juan	State New Mexico
Formation Mesa Verde		Pool Blanco	
Casing: Diameter 5.500	Set At: Feet 4200	Tubing: Diameter 2.375	Set At: Feet 5024
Pay Zone: From 4432	To 5036	Total Depth: 5088 CO 5068	Shut In 6/26/64
Stimulation Method Sand Water Frac		Flow Through Casing	Flow Through Tubing X

Choke Size, Inches 0.750		Choke Constant: C 12.365			
Shut-In Pressure, Casing, PSIG 625	+ 12 = PSIA 637	Days Shut-In 13	Shut-In Pressure, Tubing PSIG 625	+ 12 = PSIA 637	
Flowing Pressure: P PSIG 248	+ 12 = PSIA 260		Working Pressure: P _w PSIG 558	+ 12 = PSIA 570	
Temperature: T = 68 °F	F _r = .9924	n = .75	F _{pv} (From Tables) 1.025	Gravity .660	F _g = .9535

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

$$Q = (12.365) (260) (.9924) (.9535) (1.025) = \underline{3118} \text{ MCF/D}$$

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

$$Aof = \left(\frac{405769}{80869} \right)^n = (3118) (5.0176)^{.75} = (3.355) (3118)$$

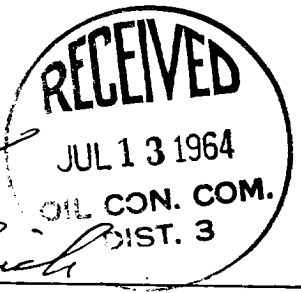
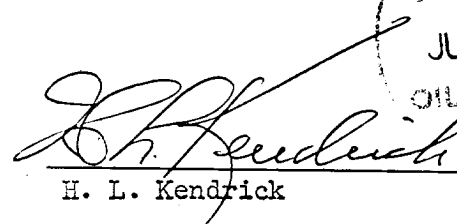
$$Aof = \underline{10,461} \text{ MCF/D}$$

NOTE: Blew dry gas
throughout test.

TESTED BY J. B. Goodwin

WITNESSED BY

CHECKED BY T. B. Grant



 H. L. Kendrick