

EL PASO NATURAL GAS COMPANY
OPEN FLOW TEST DATADATE 10-8-69

Operator El Paso Natural Gas Co.		Lease P. L. Davis No. 4	
Location 800N 800E S 35-T26N-R11W		County San Juan	State New Mex.
Formation Dakota		Pool Basin	
Casing: Diameter 4.500	Set At: Feet 6305	Tubing: Diameter 2.375	Set At: Feet 6031
Pay Zone: From 6071	To 6174	Total Depth: 6305	Shut In 9-27-69
Stimulation Method SWF		Flow Through Casing	Flow Through Tubing XX

Choke Size, Inches 4" MR, 2.750 plt.		Choke Constant: C 41.9208		Well tested thru 3/4" variable choke.	
Shut-In Pressure, Casing, PSIG 1875	+ 12 = PSIA 1887	Days Shut-In 11	Shut-In Pressure, Tubing PSIG 1880	+ 12 = PSIA 1892	
Flowing Pressure: P PSIG 455 WH, 127 MR	+ 12 = PSIA 467 WH, 139 MR		Working Pressure: Pw PSIG 861	+ 12 = PSIA 873	
Temperature: T = 75 °F	n = .75		Fpv (From Tables) 1.014	Gravity .700	Fg = 1.1952

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

$$Q = \text{Calculated from orifice meter readings} = 4,255 \text{ MCF/D}$$

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

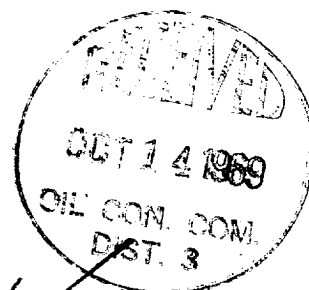
Note: The well produced 18.65 bbls. of
59.8 API gravity oil during the test.

$$Aof = \left(\frac{3579664}{2817535} \right)^n = (4255)(1.2704)^{.75} = (4255)(1.1966)$$

$$Aof = 5092 \text{ MCF/D}$$

TESTED BY Jess B. Goodwin

WITNESSED BY _____



R. R. Keedick