

EL PASO NATURAL GAS COMPANY
OPEN FLOW TEST DATADATE 4-13-70

Operator El Paso Natural Gas Co.		Lease Lucerne A No. 3 OWWO	
Location 921S, 1090W, S3, T31N, R10W		County San Juan	State New Mexico
Formation Mesa Verde		Pool Blanco	
Casing: Diameter 4.500	Set At: Feet 5656	Tubing: Diameter 2.375	Set At: Feet 5555
Pay Zone: From 4794	To 5610	Total Depth: 5656	Shut In 4-5-70
Stimulation Method SEF		Flow Through Casing	Flow Through Tubing XX

Choke Size, Inches 4 Mtr. 2.750 Plt.		Choke Constant: C 41.9208		Well tested thru 3/4" variable choke	
Shut-In Pressure, Casing, PSIG 760	+ 12 = PSIA 772	Days Shut-In 8	Shut-In Pressure, Tubing PSIG 429	+ 12 = PSIA 441	
Flowing Pressure: P PSIG 325 WH 92 MR	+ 12 = PSIA 337 WH 104 MR		Working Pressure: P _w PSIG 673	+ 12 = PSIA 685	
Temperature: T = 81 °F F _t = 9804	n = .75		F _{pv} (From Tables) 1.008	Gravity .670 F _g = 1.2217	

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

$$Q = \text{Calculated from orifice meter readings} = \underline{2,948} \text{ MCF/D}$$

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

Note: The well produced 25.36 bbls. of 38.4 API gravity oil during the test.

$$Aof = \left(\frac{595984}{126759} \right)^n = (4.7017)^{.75} (2948) = (3.1929)(2948)$$

$$Aof = \underline{9,413} \text{ MCF/D}$$

TESTED BY D. R. Roberts & J. B. Goodwin

WITNESSED BY _____



H. L. Kendrick
H. L. Kendrick

