

EL PASO NATURAL GAS COMPANY  
OPEN FLOW TEST DATA

Ready 9-9-69

DATE 9-23-69

Operator El Paso Natural Gas Company		Lease P. L. Davis No. 3	
Location 890 S, 1830 E, S-13, T26N, R11W		County San Juan	State New Mexico
Formation Dakota		Pool Basin	
Casing: Diameter 4.500	Set At: Feet 6480	Tubing: Diameter 2.375	Set At: Feet 6279
Pay Zone: From 6297	To 6422	Total Depth: 6480	Shut In 9-2-69
Stimulation Method SWF		Flow Through Casing	Flow Through Tubing XX

Choke Size, Inches 4" MR, 2.750 plate		Choke Constant: C 41.9208		well tested thru a 3/4" variable choke	
Shut-In Pressure, Casing, 1738	PSIG	+ 12 = PSIA 1750	Days Shut-In 21	Shut-In Pressure, Tubing 908	PSIG + 12 = PSIA 920
Flowing Pressure: P 46 WH, 8 MR	PSIG	+ 12 = PSIA 58 WH, 20 MR		Working Pressure: P <sub>w</sub> 610	PSIG + 12 = PSIA 622
Temperature: T=84 °F		n = .75		F <sub>pv</sub> (From Tables) 1.003	Gravity .700 F <sub>g</sub> = 1.1952

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

$$Q = \text{calculated from orifice meter readings} = 560 \text{ MCF/D}$$

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

Note: The well produced 10.44 bbls of 42.7° API Gravity Oil during the test.

$$Aof = \left( \frac{3062500}{2675616} \right)^n = (560)(1.1445)^{.75} = (560)(1.1065)$$

$$Aof = 620 \text{ MCF/D}$$



TESTED BY Dannie Roberts

WITNESSED BY