

OPEN FLOW TEST DATA

DATE 9-16-69

Operator El Paso Natural Gas Company		Lease P. L. Davis No. 2	
Location 800N, 1500E, S25-T26N-R11W		County San Juan	State New Mexico
Formation Dakota		Pool Basin	
Casing: Diameter 4.500	Set At: Feet 6444	Tubing: Diameter 2.375	Set At: Feet 6243
Pay Zone: From 6254	To 6298	Total Depth: 6444	Shut In 9-4-69
Stimulation Method SMF		Flow Through Casing	Flow Through Tubing XX

Choke Size, Inches 4" N. R., 2.750", bit.		Choke Constant: C 1.0688		Well tested through a 3/4" variable choke	
Shut-In Pressure, Casing, PSIG 1773	+ 12 = PSIA 1790	Days Shut-In 12	Shut-In Pressure, Tubing PSIG 1730	+ 12 = PSIA 1742	
Flowing Pressure: P PSIG 16 N. R., 72 W. H.	+ 12 = PSIA 28 N. R., 84 W. H.		Working Pressure: P _w PSIG 442	+ 12 = PSIA 454	
Temperature: T = 90 °F	F _t = .9732	n = .75	F _{pv} (From Tables) 1.003	Gravity .700	F _g = 1.1952

$$\text{CHOKE VOLUME} = Q = C \times P_t \times F_t \times F_g \times F_{pv}$$

$$Q = \text{Calculated from orifice meter readings} = 710 \text{ MCF/D}$$

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

$$Aof = \left(\frac{3204100}{2997984} \right)^n = (710)(1.0687)^{.75} = (710)(1.0511)$$

Note: The well produced 6 bbls. of 48.3 API gravity oil during the test.

$$Aof = 746 \text{ MCF/D}$$

TESTED BY Dannie Roberts

WITNESSED BY

RECEIVED
SEP 19 1969
OIL CON. COM.
DIST. 3

H. L. Kendrick