

EL PASO NATURAL GAS COMPANY  
OPEN FLOW TEST DATA

DATE January 7, 1972

Operator EL PASO NATURAL GAS COMPANY		Lease SCHWERTFEGER No. 1-X OWWO	
Location SW Sec. 27-31-9		County San Juan	State New Mexico
Formation MV		Pool Blanco	
Casing: Diameter 4.500	Set At: Feet 5507	Tubing: Diameter 2.375	Set At: Feet 5439
Pay Zone: From 4667	To 5458	Total Depth: 5507	Shut In 12-20-71
Stimulation Method SWF		Flow Through Casing	Flow Through Tubing XX

Choke Size, Inches Plate 4"M.R., 2.750" Plate	Choke Constant: C 41.10		Tested through 3/4" Variable Choke	
Shut-In Pressure, Casing, PSIG 572	+ 12 = PSIA 584	Days Shut-In 18	Shut-In Pressure, Tubing PSIG 243	+ 12 = PSIA 255
Flowing Pressure: P 212 W.H., 13 M.R. PSIG	+ 12 = PSIA 224 W.H., 25 M.R.		Working Pressure: Pw PSIG 457	+ 12 = PSIA 469
Temperature: T = 88 °F F <sub>t</sub> = 0.9741	n = .75		Fpv (From Tables) 1.003	Gravity .659 Fg = 1.2318

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

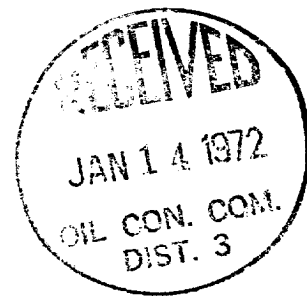
$$Q = \text{Calculated from orifice meter readings} = 988 \text{ MCF/D}$$

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

Note: The well blew dead in approximately 2 minutes and started unloading after 5 minutes but did not unload enough oil to sample or gage in the 250 bbl. tank.

$$Aof = \left( \frac{341056}{121095} \right)^n = (988)(2.8164)^{.75} (988)(2.1741)$$

$$Aof = 2148 \text{ MCF/D}$$



TESTED BY T. D. Norton

WITNESSED BY

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