

EL PASO NATURAL GAS COMPANY
OPEN FLOW TEST DATA

DATE 5-19-71

Operator El Paso Natural Gas Company		Lease Huerfano Unit No. 131	
Location 800'N, 990'W, S 34, T26N, R10W		County San Juan	State New Mexico
Formation Dakota		Pool Basin	
Casing: Diameter 4.500	Set At: Feet 6789	Tubing: Diameter 2.375	Set At: Feet 6727
Pay Zone: From 6572	To 6724	Total Depth: 6789	Shut In 5-10-71
Stimulation Method S W F		Flow Through Casing	Flow Through Tubing XXX

meter Choke Size, Inches 4" MR- 2.750" plt.		meter Choke Constant: C 41.9208		tested thru 3/4" variable choke.	
Shut-In Pressure, Casing, PSIG 1180	+ 12 = PSIA 1192	Days Shut-In 9	Shut-In Pressure, Tubing PSIG 1252	+ 12 = PSIA 1264	
Flowing Pressure: P PSIG 164 WH 36 MR	+ 12 = PSIA 176 WH 48 MR		Working Pressure: P _w PSIG 447	+ 12 = PSIA 459	
Temperature: T = 87 °F F _t = .9750	n = .75		F _{pv} (From Tables) 1.003	Gravity .700 F _g = 1.1952	

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

$$Q = \text{calculated from orifice meter readings} = 1348 \text{ MCF/D}$$

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

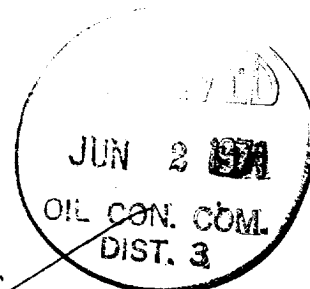
Note: Well produced 20.80 bbls. oil at 43.9 gravity.

$$Aof = \left(\frac{1597696}{1387015} \right)^n = (1.1519)^{.75} (1348) = (1.1118) (1348)$$

$$Aof = 1499 \text{ MCF/D}$$

TESTED BY Dan Roberts-Roger Hardy

WITNESSED BY



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