

OPEN FLOW TEST DATA

DATE February 28, 1969

Operator El Paso Natural Gas Company		Lease Huerfano Unit No. 193	
Location 1790'S 1650'E, S-29, T-26N, R-9W		County San Juan	State New Mexico
Formation Dakota		Pool Basin	
Casing: Diameter 4.500	Set At: Feet 6790	Tubing: Diameter 2.375	Set At: Feet 6701
Pay Zone: From 6506	To 6736	Total Depth: 6790	Shut In 2-20-69
Stimulation Method Sand Water Frac		Flow Through Casing	Flow Through Tubing X

Choke Size, Inches 4" M.R. 2.750 Plate		Choke Constant: C 41.9208			
Shut-In Pressure, Casing, PSIG 1932	+ 12 = PSIA 1944	Days Shut-In 8	Shut-In Pressure, Tubing PSIG 1217	+ 12 = PSIA 1229	
Flowing Pressure: P PSIG 435 W.H.; 106 M.R.	+ 12 = PSIA 447 W.H.; 118 M.R.		Working Pressure: P _w PSIG 930	+ 12 = PSIA 942	
Temperature: T = 82 °F	F _t = .9795	n = .75	F _{pv} (From Tables) 1.011	Gravity .700	F _g = 1.1952

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

$$Q = \text{Calculated from orifice meter readings} = 3329 \text{ MCF/D}$$

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

$$Aof = \left(\frac{3779136}{2891772} \right)^n = (3329) (1.3068) .75 = (3329) (1.2222)$$

Note: The well produced 57.80 bbls. of 48.5 API gravity oil and 30.58 bbls. of water during the test.

$$Aof = 4,069 \text{ MCF/D}$$

TESTED BY CRW & HEM
 Calculated
 WITNESSED BY HEM



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