

EL PASO NATURAL GAS COMPANY
OPEN FLOW TEST DATA

WELL COMPLETION

DATE July 19, 1965

Operator El Paso Natural Gas Company		Lease Huertasmayo Unit No. 86 (DK)	
Location 14-01-N, 10-02-W, Section 36, T-27-N, R-9-W		County San Juan	State New Mexico
Formation Dakota		Pool Basin	
Casing: Diameter 5.500	Set At: Feet 6700	Tubing: Diameter 2.375	Set At: Feet 6700
Per Zone: From 6423	To 6577	Total Depth: 6700	Shut in 7-12-65
Stimulation Method Sand Water Frac		Flow Through Casing	Flow Through Tubing N

Choke Size, Inches .750	Choke Constant: C 12.365		Packer set at 4610 ft. (Baker Model "F")	
Shut-In Pressure, Casing, (MW) 1127 PSIG	+ 12 = PSIA 1139	Days Shut-in 7	Shut-In Pressure, Tubing (DK) 2085 PSIG	+ 12 = PSIA 2097
Flowing Pressure: P 391 PSIG	+ 12 = PSIA 403		Working Pressure: Pw Calc. PSIG	+ 12 = PSIA 415
Temperature: T = 100 °F	n = .75		Fpv (From Tables) 1.035	Gravity .650 Fg = .9608

ISIP (MW) = 1127 psig

FSIP (MW) = 1139 psig

CHOCKE VOLUME = $Q = C \times P_c \times F_c \times F_g \times F_{pv}$

$$Q = (12.365) (403) (.9813) (.9608) (1.035) = 4,863 \text{ MCF/D}$$

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

$$Aof = \left(\frac{4,397,409}{3,681,693} \right)^n = (4863) (1.1943)^{.75} = (4863) (1.1425)$$

NOTE: Blew heavy fog of distillate and water throughout test.

Aof = 5,556 MCF/D

TESTED BY C. R. Wagner

CALCULATED BY C. R. Wagner

CHECKED BY W. L. Dawson



L. D. Galloway
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