

EL PASO NATURAL GAS COMPANY
OPEN FLOW TEST DATA

DATE May 25, 1961

Operator El Paso Natural Gas Products Company	Lease Delhi-Taylor No. 6
Location SW 17-26-11	County San Juan State New Mexico
Formation Dakota	Pool Basin
Casing, Diameter 5-1/2" Set At: Feet 6190	Tubing, Diameter 2-3/8" Set At: Feet 6157
Flow Zone, From 5990 To 6015	Total Depth: 6157 Shot in 5-16-61
Stratification Method Oil Frac.	Flow Through Casing X Flow Through Tubing X

Choke Size, Inches 0.750	Choke Constant: C 12.365
Shut-In Pressure, Casing, PSIG 1917	Shut-In Pressure, Tubing, PSIG 1917
Flowing Pressure, P, PSIG 597	Working Pressure, Pw, PSIG 1305
Temperature, T, F 80	Evap (From Tables) 1.062
Days Shut-in 9	Gravity 0.691
F, .9813	Fg, .9325

$$\text{CHOKE VOLUME } Q = C \times P_r \times F_r \times F_g \times F_{pv}$$

$$Q = (12.365)(609)(.9813)(.9325)(1.062)$$

7318 MCF/D

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

$$Aof = \left(\frac{3,721,041}{1,986,552} \right)^n$$

$$(1.8731)^{.75}(7318) = (1.6010)(7318)$$

Aof 11,716 MCF/D

NOTE:

Made Heavy Oil Vapor Throughout Test.

Jesse B. Goodwin

Dannie R. Roberts

Checked by: T. B. Grant

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