

EL PASO NATURAL GAS COMPANY
OPEN FLOW TEST DATA

Well Completion

DATE 11-4-66

Operator El Paso Natural Gas Company		Lease Escobedo Unit No. 99 (DK)	
Location 10th Street, Box 10, R-27-N, R-9-W		County San Juan	State New Mexico
Formation D-100		Pool Basin	
Casing: Diameter 3.375	Set At: Feet 6390	Tubing: Diameter 2.375	Set At: Feet 6723
Pay Zone: From 650	To 6704	Total Depth: 6905	Shut In 10-28-66
Stimulation Method Sand Water Foam		Flow Through Casing	Flow Through Tubing X

Choke Size, Inches .750	Choke Constant: C 12.365		Baker Model "P" Packer Set at 4610	
Shut-In Pressure, Casing, PSIG 285 (DK)	+ 12 = PSIA 1076 (DK)	Days Shut-In 7	Shut-In Pressure, Tubing PSIG 1950 (DK)	+ 12 = PSIA 1962 (DK)
Flowing Pressure: P PSIG 285	+ 12 = PSIA 285		Working Pressure: Pw Calc. PSIG 605	+ 12 = PSIA 605
Temperature: T = 77 °F Ft = .9905	n = .75		Fpv (From Tables) 1.028	Gravity .675 Fg = .9427

ISIPG (12) = 1064 psig
ISIPG (DK) = 1072 psig

CHOKE VOLUME = Q = C x P_i x F_t x F_g x F_{pv}

Q = (12.365)(285)(.9905)(.9427)(1.028) = 3383 MCF/D

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

Aof = $\left(\frac{3810444}{3463419} \right)^n = (3383)(1.1050)^{.75} = (3383)(1.0777)$

NOTE: The well unloaded a large slug of water and dist. after 3 minutes then it produced a light fog of water and dist. throughout the remainder of the test.

Aof = 3646 MCF/D

TESTED BY Doc Horton
WITNESSED BY E. H. Grant
CALCULATED BY H. L. Kendrick

RECEIVED
NOV 10 1966
OIL CON. COM.
DIST. 3
H. L. Kendrick
H. L. Kendrick