

EL PASO NATURAL GAS COMPANY
OPEN FLOW TEST DATA

DATE 7-26-73

Operator El Paso Natural Gas Company		Lease Johnston #13	
Location 1180/S, 850/E, Sec 10, T-28-N, R9W		County San Juan	State New Mexico
Formation Pictured Cliffs		Pool Aztec	
Casing: Diameter 2-7/8	Set At: Feet 2514	Tubing: Diameter No tubing	Set At: Feet
Pay Zone: From 2364	To 2416	Total Depth: 2515	Shut In 7-18-73
Stimulation Method SWF		Flow Through Casing X	Flow Through Tubing

Choke Size, inches .750		Choke Constant: C 12.365		Tubingless Completion	
Shut-In Pressure, Casing, PSIG 770	+ 12 = PSIA 782	Days Shut-In 7	Shut-In Pressure, Tubing PSIG No tubing	+ 12 = PSIA	
Flowing Pressure: P PSIG 117	+ 12 = PSIA 129		Working Pressure: Pw PSIG Calculated	+ 12 = PSIA 156	
Temperature: T= 64 °F Ft= .9962	n = .85		Fpv (From Tables) 1.011	Gravity .635 Fg = .9721	

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

Q = (12.365) (129) (.9962) (.9721) (1.011) = 1562 MCF/D

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

NOTE: Well produced dry gas.

Aof = Q $\left(\frac{611524}{587188} \right)^n = 1562(1.0414)^{.85} = 1562(1.0351)$

Aof = 1617 MCF/D

TESTED BY Rhames

WITNESSED BY



William D. Welch
William D. Welch, Well Test Engineer