

EL PASO NATURAL GAS COMPANY
OPEN FLOW TEST DATA

DATE November 28, 1973

Operator El Paso Natural Gas Company		Lease Johnston A Com G #17	
Location 800/N, 1080/E, Sec. 36, T26N, R6W		County Rio Arriba	State New Mexico
Formation Dakota		Pool Basin	
Casing: Diameter 4.500	Set At: Feet 7437'	Tubing: Diameter 2.375	Set At: Feet 7325'
Pay Zone: From 7098	To 7352	Total Depth: 7437	Shut In 11-2-73
Stimulation Method Sandwater Frac		Flow Through Casing	Flow Through Tubing XX

Choke Size, Inches .750		Choke Constant: C 12.365				
Shut-In Pressure, Casing, 2410	PSIG	+ 12 = PSIA 2422	Days Shut-In 26	Shut-In Pressure, Tubing 2029	PSIG	+ 12 = PSIA 2041
Flowing Pressure: P 161	PSIG	+ 12 = PSIA 173		Working Pressure: Pw 935	PSIG	+ 12 = PSIA 947
Temperature: T= 60 °F		n = .75		Fpv (From Tables) 1.015	Gravity .615	Fg = .9877

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

Q = (12.365) (173) (1.000) (.9877) (1.015) = 2145 MCF/D

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

Aof = Q $\left(\frac{5866084}{4969275} \right)^n = 2145 (1.1805)^{.75} = 2145(1.1325)$

Aof = 2429 MCF/D

Note: Well unloaded after 5 minutes, and
blew a heavy mist of drip throughout
the test.

TESTED BY Rhames

WITNESSED BY _____



William D. Welch
William D. Welch
Well Test Engineer