

EL PASO NATURAL GAS COMPANY
OPEN FLOW TEST DATADATE May 23, 1961

Operator El Paso Natural Gas Company		Lease Ludrick No. 18	
Location 990'N, 1780'E, Sec. 6-29-10		County San Juan	State New Mexico
Formation Dakota		Pool Basin	
Casing: Diameter 4-1/2"	Set At: Feet 6953	Tubing: Diameter 2-3/8	Set At: Feet 6818
Pay Zone: From 6702	To 6847	Total Depth: 6953	Shut In 5-12-61
Stimulation Method Sand Water Frac.		Flow Through Casing	Flow Through Tubing X

Choke Size, Inches 0.750	Choke Constant: C 12.365		Flow medium fog for entire test.	
Shut-In Pressure, Casing, PSIG 2030	12 PSIA 2042	Days Shut-In 11	Shut-In Pressure, Tubing PSIG 2001	12 PSIA 2013
Flowing Pressure: P, PSIG 219	12 PSIA 231		Working Pressure: Pw PSIG 747	12 PSIA 759
Temperature: T 78 °F	F _r = .9831	C = 0.750	F _{pv} (From Tables) 1.021	Gravity .660 F _g = .9535

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

$$Q = (12.365)(231)(.9831)(.9535)(1.021)$$

2734

MCF/D

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

$$A_{of} = \left(\frac{4,169,764}{3,593,683} \right)^n = (1.1603)^{.75} (2734) = (1.1179)(2734)$$

A_{of} = **3056** MCF/DTESTED BY Tom Grant

WITNESSED BY _____

Checked by: C. R. Wagner

Lewis D. Galloway
L. D. Galloway

