FORM 23-75 (12-66)

EL PASO NATURAL GAS COMPANY

OPEN FLOW TEST DATA

DATE July 21, 1975

Operator: El Paso Natural Gas Company		Lease: San Juan 28-7 Unit #244	
Location: 1090/S-990/W, Sec. 7, T 27 N, R 7 W		County: RA	State: New Mexico
Formation: Dakota		Pool: Basin	
Casing: Diameter: 4.500	Set At: Feet: 7588	Tubing: Diameter: 1.900	Set At: Feet: 7550
Pay Zone: From: 7328	To: 7578	Total Depth: 7588 PBTD 7587	Shut In: 7-14-75
Stimulation Method: Sand Water Frac		Flow Through Casing: XX	Flow Through Tubing

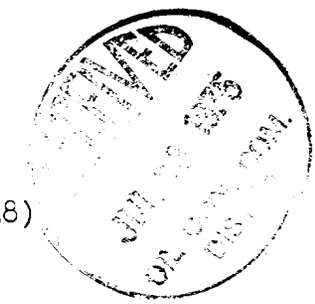
~~Choke~~ Plate Size, Inches: 2.500 in., 4 in. M.R.		~~Choke~~ Plate Constant: C: 32.64		Well tested through 3/4" variable choke	
Shut-In Pressure, Casing, PSIG: 2436	+ 12 = PSIA: 2448	Days Shut-In: 7	Shut-In Pressure, Tubing PSIG: 1995	+ 12 = PSIA: 2007	
Flowing Pressure: P PSIG: M.R. 15, W.H. 95	+ 12 = PSIA: M.R. 27 W.H. 107		Working Pressure: Pw PSIG: 498	+ 12 = PSIA: 510	
Temperature: T= 64 °F Ft=0.9962	n = 0.75		Fpv (From Tables): 1.009	Gravity: .686 Fg = 1.207	

CHOKE VOLUME = $Q = C \times P_t \times F_t \times F_g \times F_{pv}$

Q = Calculated from orifice meter reading = 1129 MCF/D

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

$$Aof = Q \left(\frac{5992704}{5732604} \right)^n = (1129)(1.0454)^{.75} = (1129)(1.0338)$$



Aof = 1167 MCF/D

Note: This well produced 31.93 Bbls of water and 11.33 Bbls of 50.6 API gravity oil during the test. The well produced 288 MCF gas during the test.

TESTED BY R. Hardy

WITNESSED BY

Well Test Engineer