FORM 23-75 (12-66)

EL PASO NATURAL GAS COMPANY

OPEN FLOW TEST DATA

CORRECTED COPY

DATE August 6, 1969

Operator: El Paso Natural Gas Company		Lease: San Juan 27-5 Unit No. 114	
Location: 990N 800E S17-T27N-R5W		County: Rio Arriba	State: New Mexico
Formation: Dakota		Pool: Basin	
Casing: Diameter: 4.500	Set At: Feet: 7768	Tubing: Diameter: 1.900	Set At: Feet: 7681
Pay Zone: From: 7496	To: 7713	Total Depth: 7768	Shut In: 7-26-69
Stimulation Method: Sand Water Frac		Flow Through Casing: XX	Flow Through Tubing:

Choke Size, Inches: 0.750		Choke Constant: C: 12.365			
Shut-In Pressure, Casing, PSIG: 2624	+ 12 = PSIA: 2636	Days Shut-In: 11	Shut-In Pressure, Tubing PSIG: 1434	+ 12 = PSIA: 1446	
Flowing Pressure: P PSIG: 327	+ 12 = PSIA: 339		Working Pressure: P_w PSIG: 1812	+ 12 = PSIA: 1824	
Temperature: T= 69 °F	Ft= .9915	n = 0.750	Fpv (From Tables): 1.032	Gravity: .650	Fg = .9608

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

$Q = 12.365 \times 339 \times .9915 \times 1.032 \times .9608 =$ 4121 MCF/D

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DIST. 3

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

$Aof = \left(\frac{6948496}{3621520} \right)^n = (1.9186)^{.75}\ 4121 = 1.6301\ (4121)$

Note: Well dead after 3 min. After 9 min. well started to unload water and distillate. Blew heavy spray rest of test.

Aof = 6718 MCF/D

CORRECTED COPY

TESTED BY DRR

Calculated

~~WITNESSED~~ BY RES

H. L. Kendrick