FORM 23-75R (REV. 1-63)

EL PASO NATURAL GAS COMPANY

OPEN FLOW TEST DATA

DATE August 14, 1968

Operator: El Paso Natural Gas Company		Lease: San Juan 27-4 Unit No. 45	
Location: 1035'N, 900'E, Sec. 19, T-27-N, R-4-W		County: Rio Arriba	State: New Mexico
Formation: Dakota		Pool: Basin	
Casing: Diameter: 4.500	Set At: Feet: 8155	Tubing: Diameter: 2.375	Set At: Feet: 7859
Pay Zone: From: 7834	To: 8090	Total Depth: 8155	Shut In: 7-27-68
Stimulation Method: Sand Water Frac		Flow Through Casing	Flow Through Tubing: X

Choke Size, Inches: .750		Choke Constant: C: 12.365			
Shut-In Pressure, Casing, PSIG: 2617	+ 12 = PSIA: 2629	Days Shut-In: 18	Shut-In Pressure, Tubing PSIG: 2674	+ 12 = PSIA: 2686	
Flowing Pressure: P PSIG: 272	+ 12 = PSIA: 284		Working Pressure: P_w PSIG: 1064	+ 12 = PSIA: 1076	
Temperature: T= 93 °F	Ft= .9715	n = .75	Fpv (From Tables): 1.025	Gravity: .680	Fg= .9393

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

$Q = (12.365)(284)(.9715)(.9393)(1.025)$ = 3285 MCF/D

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

Aof = $\left(\frac{7214596}{6056820} \right)^n$ = $(3285)(1.1911)^{.75} = (3285)(1.1402)$

Note: The well blew a light to medium fog of water and distillate throughout the test.

Aof = 3746 MCF/D

RECEIVED
AUG 19 1968
OIL CON. COM.
DIST. 3

TESTED BY Jesse R. Goodwin

WITNESSED BY Tom B. Grant

Checked

H. L. Kendrick