FORM 23-75 (12-66)

EL PASO NATURAL GAS COMPANY

OPEN FLOW TEST DATA

DATE July 31, 1969

Operator: El Paso Natural Gas Company		Lease: San Juan 27-5 Unit No. 117	
Location: 880 N, 800 E, S 22, T 27 N, R 5 W		County: Rio Arriba	State: New Mexico
Formation: Basin		Pool: Dakota	
Casing: Diameter: 4.500	Set At: Feet: 7895	Tubing: Diameter: 1.900	Set At: Feet: 7813
Pay Zone: From: 7582	To: 7852	Total Depth: 7895	Shut In: 6-30-69
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: 2671	+ 12 = PSIA: 2683	Days Shut-In: 31	Shut-In Pressure, Tubing PSIG: 2655	+ 12 = PSIA: 2667	
Flowing Pressure: P PSIG: 537	+ 12 = PSIA: 549		Working Pressure: P_w PSIG: 842	+ 12 = PSIA: 854	
Temperature: T= 89 °F	Ft= .9732	n = 0.75	Fpv (From Tables): 1.049	Gravity: .650	Fg = .9608

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

$Q = 12.365 \times 549 \times .9732 \times 1.049 \times .9608 =$ 6659 MCF/D

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

Note: Well blew a heavy spray of water and distillates throughout the test.

$Aof = \left(\frac{7198489}{6469173} \right)^n = (1.1127)^{.75}\ 6659 = 1.0833\ (6659)$

Aof = 7214 MCF/D

RECEIVED
AUG 6 1969
OIL CON. COM.
DIST. 3

TESTED BY DRR

Calculated
~~WITNESSED~~ BY RES

R. E. Stauffer