FORM 23-75 (12-66)

EL PASO NATURAL GAS COMPANY

OPEN FLOW TEST DATA

DATE May 31, 1972

Operator: El Paso Natural Gas Company		Lease: San Juan 27-4 Unit No. 16-Y	
Location: 1159 (45) W, 876 (819) S, Sec. 17 - 27N - 4W		County: Rio Arriba	State: New Mexico
Formation: Dakota		Pool: Basin	
Casing: Diameter: 4.500	Set At: Feet: 8021	Tubing: Diameter: 1.900	Set At: Feet: 7906
Pay Zone: From: 1732	To: 7938	Total Depth: 8021	Shut In: 5-21-72
Stimulation Method: S.W.F.		Flow Through Casing: XX	Flow Through Tubing:

Choke Size, Inches: 0.750		Choke Constant: C: 12.365			
Shut-In Pressure, Casing, PSIG: 1766	+ 12 = PSIA: 1778	Days Shut-In: 10	Shut-In Pressure, Tubing PSIG: 2310	+ 12 = PSIA: 2322	
Flowing Pressure: P PSIG: 338	+ 12 = PSIA: 350		Working Pressure: P_w PSIG: 765	+ 12 = PSIA: 777	
Temperature: T= 74 °F Ft= .9868	n = .75		Fpv (From Tables): 1.037	Gravity: .695 Fg = .9292	

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

$Q = 12.365 \times 350 \times .9868 \times .9292 \times 1.037 = 4115$ MCF/D

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

NOTE: Well produced a light mist of water throughout the test.

$Aof = \left(\frac{5391684}{4787955} \right)^n = (1.1261)^{.75} (4115) = (1.0932)(4115)$

Aof = 4498 MCF/D

TESTED BY B. J. Broughton

WITNESSED BY

L. E. Mabe, Jr.

JUN 1972
OIL CON. COM.
DIST. 3