FORM 23-75 (12-66)

EL PASO NATURAL GAS COMPANY

OPEN FLOW TEST DATA

DATE June 13, 1974

Operator: El Paso Natural Gas Company		Lease: San Juan 28-7 Unit #220	
Location: 1080/S, 2480/W, Sec 22, T28N, R7W		County: Rio Arriba	State: New Mexico
Formation: Dakota		Pool: Basin	
Casing: Diameter: 4.500	Set At: Feet: 7987'	Tubing: Diameter: 1.990	Set At: Feet: 7924'
Pay Zone: From: 7759'	To: 7949'	Total Depth: 7987' PBTD 7979'	Shut In: 6-6-74
Stimulation Method: Sandwater Frac		Flow Through Casing: XX	Flow Through Tubing:

Choke Size, Inches: .750	Choke Constant: C: 12.365		
Shut-In Pressure, Casing, PSIG: 2425	+ 12 = PSIA: 2437 / Days Shut-In: 7	Shut-In Pressure, Tubing PSIG: 2256	+ 12 = PSIA: 2268
Flowing Pressure: P PSIG: 312	+ 12 = PSIA: 324	Working Pressure: P_w PSIG: 554	+ 12 = PSIA: 566
Temperature: T= 67 °F Ft= .9933	n = .75	Fpv (From Tables): 1.0310	Gravity: .650 Fg = .9608

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

$Q = 12.365(324)(.9933)(.9608)(1.0310) = 3942$ MCF/D

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

$Aof = Q \left(\frac{5938969}{5618613} \right)^n = 3942(1.0570)^{.75} = 3942(1.0425)$

Aof = 4109 MCF/D

Note: The well blew a light spray of water and oil throughout test.

TESTED BY R. Hardy

WITNESSED BY _____

Loren W Fothergill

Loren W. Fothergill
Well Test Engineer