FORM 23-75 (12-66)

EL PASO NATURAL GAS COMPANY

OPEN FLOW TEST DATA

DATE 2/2/73

Operator: El Paso Natural Gas Company		Lease: San Juan 28-6 Unit #134	
Location: 1170/S, 1750/W, Sec. 5, T27N, R6W		County: Rio Arriba	State: NM
Formation: Dakota		Pool: Basin	
Casing: Diameter: 4.500	Set At: Feet: 7692	Tubing: Diameter: 1.900	Set At: Feet: 7613
Pay Zone: From: 7420	To: 7650	Total Depth: 7692	Shut In: 1/20/73
Stimulation Method: SWF		Flow Through Casing: X	Flow Through Tubing:

Choke Size, Inches: .750		Choke Constant: C: 12.365			
Shut-In Pressure, Casing, PSIG: 2051	+ 12 = PSIA: 2063	Days Shut-In: 13	Shut-In Pressure, Tubing PSIG: 1557	+ 12 = PSIA: 1569	
Flowing Pressure: P PSIG: 392	+ 12 = PSIA: 404		Working Pressure: P_w PSIG: 651	+ 12 = PSIA: 663	
Temperature: T= 79 °F	Ft= .9822	n = .75	Fpv (From Tables): 1.041	Gravity: .678	Fg = .9407

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

$Q = (12.365)(404)(.9822)(.9407)(1.041) = 4805$ MCF/D

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

$Aof = Q \left(\frac{4255969}{3816400} \right)^n = 4805 \ (1.1152)^{.75} = 4805 \ (1.0852)$

$Aof = 5214$ MCF/D

NOTE: The well produced a heavy mist of drip for the first hour. Then unloaded and produced a light mist for the rest of the test.

TESTED BY Rhames

WITNESSED BY

William D. Welch
William D. Welch
Well Test Engineer