FORM 23-75 (12-65)

EL PASO NATURAL GAS COMPANY

OPEN FLOW TEST DATA

DATE 11-14-73

Operator: El Paso Natural Gas Company		Lease: San Juan 27-5 Unit #163	
Location: 1650/S, 1190/W, Sec. 18, T27N, R5W		County: Rio Arriba	State: New Mexico
Formation: Dakota		Pool: Basin	
Casing: Diameter: 4.500	Set At: Feet: 7677'	Tubing: Diameter: 1 1/2	Set At: Feet: 7621'
Pay Zone: From: 7430	To: 7646	Total Depth: 7677	Shut In: 10-25-73
Stimulation Method: Sandwater Frac		Flow Through Casing: X	Flow Through Tubing:

~~Choke~~ Size, Inches: 2.750" Plate, 4" Meter Run	~~Choke~~ Constant: C: Plate 41.10		Tested through a 3/4" Variable choke
Shut-In Pressure, Casing, PSIG: 2648	+ 12 = PSIA: 2660	Days Shut-In: 20	Shut-In Pressure, Tubing PSIG: 1255 / + 12 = PSIA: 1267
Flowing Pressure: P PSIG: 282 W.H.; 91 M.R.	+ 12 = PSIA: 294 W.H.; 103 M.R.		Working Pressure: P_w PSIG: 551 / + 12 = PSIA: 563
Temperature: T= 68 °F Ft= .9924	n = .75		Fpv (From Tables): 1.008 / Gravity: .655 Fg= 1.236

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

Q = Calculated from orifice meter readings = 3415 MCF/D

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

$Aof = Q \left(\frac{7075600}{6758631} \right)^n = (3415)(1.0469)^{.75} = (3415)(1.0350)$

Aof = 3535 MCF/D

Note: The well produced 23.31 bbls of water during the test.

TESTED BY Don Norton

WITNESSED BY

H. E. McGrady

Well Test Engineer