FORM 23-75 (11-72)

EL PASO NATURAL GAS COMPANY

OPEN FLOW TEST DATA

CORRECTED COPY

DATE June 3, 1975

Operator: El Paso Natural Gas Company		Lease: Mansfield #9-A	
Location: 1700'S, 1050'E, Sec. 29, T30N, R9W		County: San Juan	State: New Mexico
Formation: Mesa Verde		Pool: Blanco	
Casing: Diameter: 4.500	Set At: Feet: 5160'	Tubing: Diameter: 2.375	Set At: Feet: 5062'
Pay Zone: From: 4162	To: 5104	Total Depth: 4340'- PBTD	Shut In: 5-27-75
Stimulation Method: Sandwater Frac		Flow Through Casing:	Flow Through Tubing: XX

~~Choke~~ Plate Size, Inches: 2.500" Plate, 4" M.R.	~~Choke~~ Plate Constant: C: 32.64		Tested through a 3/4" variable choke
Shut-In Pressure, Casing, PSIG: 662	+ 12 = PSIA: 674	Days Shut-In: 7	Shut-In Pressure, Tubing PSIG: 598 / + 12 = PSIA: 610
Flowing Pressure: P PSIG: 68 M.R.; 177 W.H.	+ 12 = PSIA: 80 M.R. 189 W.H.		Working Pressure: P_w PSIG: 568 / + 12 = PSIA: 580
Temperature: T= 72 °F Ft=0.9887	n = .75		Fpv (From Tables): 1.010 / Gravity: .700 Fg = 1.195

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

Q = Calculated from orifice meter readings = 2144 MCF/D

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

$Aof = Q \left(\frac{454276}{117876} \right)^n = 2144(3.8538)^{.75} = 2144(2.7506)$

Aof = 5897 MCF/D

Note: The well produced 13.39 bbls of 45.0° API gravity oil during the test. The well produced 269 MCF of gas during the test.

TESTED BY Roger Hardy

WITNESSED BY

Gary W. Dirks

Well Test Engineer