FORM 23-75 (12-60)

EL PASO NATURAL GAS COMPANY

OPEN FLOW TEST DATA

CORRECTED COPY #2

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: 5158	Tubing: Diameter: 2.375	Set At: Feet: 5062'
Pay Zone: From: 4160	To: 5104	Total Depth: PBTD 5158' 5141'	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: Pw 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 x P_t x F_t x F_g x 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

H. E. McAnally

Well Test Engineer