FORM 23-75R (REV. 1-63)

EL PASO NATURAL GAS COMPANY

OPEN FLOW TEST DATA

DATE October 4, 1968

Operator: El Paso Natural Gas Company		Lease: Huerfano Unit No. 153	
Location: 890'N, 1650'E, Sec. 18, T-25-N, R-9-W		County: San Juan	State: New Mexico
Formation: Dakota		Pool: Basin	
Casing: Diameter: 4.500	Set At: Feet: 6840	Tubing: Diameter: 2.375	Set At: Feet: 6604
Pay Zone: From: 6590	To: 6696	Total Depth: 6840	Shut In: 9-24-68
Stimulation Method: Sand Water Frac.		Flow Through Casing	Flow Through Tubing: X

~~Choke~~ Plate Size, Inches: Plate 2.750 4" M.R.	~~Choke~~ Meter Constant: C: 41.9208		Tested through a 3/4" variable choke		
Shut-In Pressure, Casing, PSIG: 1882	+ 12 = PSIA: 1894	Days Shut-In: 10	Shut-In Pressure, Tubing PSIG: 1881	+ 12 = PSIA: 1893	
Flowing Pressure: P PSIG: 405 W.H.; 147 M.R.	+ 12 = PSIA: 417 W.H.; 159 M.R.		Working Pressure: Pw PSIG: 1192	+ 12 = PSIA: 1204	
Temperature: T= 73 °F Ft= .9877	n = .75		Fpv (From Tables): 1.016	Gravity: .700 Fg = 1.1952	

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

Q = Calculated from orfice meter reading = 4776 MCF/D

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

$Aof = \left(\frac{3587236}{2137620} \right)^n = (4776)(1.6781)^{.75} = (4776)(1.4744)$

NOTE: The well produced 14.92 bbls. of 59.5 API gravity oil and 11.2 bbls. of water into the tank during the test.

Aof = 7042 MCF/D

RECEIVED
OCT 10 1968
OIL CON. COM.
DIST. 3

TESTED BY Dannie R. Roberts & Bobby Broughton

Calculated:
~~WITNESSED~~ BY Hermon E. McAnally

H. L. Kendrick