FORM 23-75 (12-66)

EL PASO NATURAL GAS COMPANY

OPEN FLOW TEST DATA

DATE December 31, 1968

Operator: El Paso Natural Gas Company		Lease: Lodewick No. 11	
Location: 1180'N, 1772'E, Sec. 30, T-27-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: 6768
Pay Zone: From: 6578	To: 6803	Total Depth: 6840	Shut In: 12-24-68
Stimulation Method: Sand Water Frac		Flow Through Casing	Flow Through Tubing: XX

Choke Size, Inches: 2.750"Plate; 4"M.R.	Meter Choke Constant: C: 41.9208		Tested Through a 3/4" Variable choke
Shut-In Pressure, Casing, PSIG: 1884	+ 12 = PSIA: 1896	Days Shut-In: 7	Shut-In Pressure, Tubing PSIG: 1569 / + 12 = PSIA: 1581
Flowing Pressure: P PSIG: 57 M.R.;192W.H.	+ 12 = PSIA: 69 M.R.; 204 W.H.		Working Pressure: P_w PSIG: 592 / + 12 = PSIA: 604
Temperature: T= 86 °F Ft=.9759	n = .75		Fpv (From Tables): 1.008 / Gravity: .670 Fg=1.2217

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

Q = Calculated from orifice Meter Readings = 2031 MCF/D

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

$$Aof = \left(\frac{3594816}{3230000} \right)^n = (2031)(1.1129)^{.75} = (2031)(1.0835)$$

Note: The well produced 50 bbls. of 41.9 API Gravity Oil and 14 bbls. of water during the test.

Aof = 2201 MCF/D

RECEIVED
JAN 6 1969
OIL CON. COM.
DIST. 3

TESTED BY CRWagner & BJBroughton

Calculated ~~WITNESSED~~ BY H.E.McAnally

H. L. Kendrick