EL PASO NATURAL GAS COMPANY

OPEN FLOW TEST DATA

DATE December 21, 1967

Operator: El Paso Natural Gas Company		Lease: P. L. Davis No. 1	
Location: 2319'S, 990'W, Sec. 25, T-26-N, R-11-W		County: San Juan	State: New Mexico
Formation: Dakota		Pool: Basin	
Casing: Diameter: 4.500	Set At: Feet: 6417	Tubing: Diameter: 2.375	Set At: Feet: 6191
Pay Zone: From: 6210	To: 6278	Total Depth: 6417	Shut In: 12-9-67
Stimulation Method: Sand Water Frac		Flow Through Casing:	Flow Through Tubing: X

Choke Size, Inches: meter 2 1/2" Plate, 4" run	Choke Constant: C (meter): 33.2928		Tested through a 3/4" variable choke
Shut-In Pressure, Casing, PSIG: 1906	+ 12 = PSIA: 1918	Days Shut-In: 12	Shut-In Pressure, Tubing PSIG: 1906 / + 12 = PSIA: 1918
Flowing Pressure: P PSIG: meter 63, WH 161	+ 12 = PSIA: meter 75, WH 173		Working Pressure: P_w PSIG: 460 / + 12 = PSIA: 472
Temperature: T= 54 °F Ft= 1.0057	n = .75		Fpv (From Tables): 1.009 / Gravity: .675 Fg = 1.2172

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

Q = Calculated from orifice meter reading = 1949 MCF/D

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

$$Aof = \left(\frac{3678724}{3455940} \right)^n = (1949)(1.0644)^{.75} = (1949)(1.0479)$$

NOTE: The well produced 13 bbls. of oil during the test.

Aof = 2042 MCF/D

RECEIVED
DEC 28 1967
OIL CON. COM.
DIST. 3

TESTED BY R. F. Headrick & D. Roberts

CHECKED
WITNESSED BY T. B. Grant

H. L. Kendrick