FORM 23-75 (12-66)

EL PASO NATURAL GAS COMPANY

OPEN FLOW TEST DATA

DATE April 15, 1969

Operator: El Paso Natural Gas		Lease: Huerfano Unit No. 190	
Location: 1025'N; 1840'E; S-1; T-25N; R-10W		County: San Juan	State: New Mexico
Formation: Dakota		Pool: Basin	
Casing: Diameter: 4.500	Set At: Feet: 6837	Tubing: Diameter: 2.375	Set At: Feet: 6605
Pay Zone: From: 6642	To: 6731	Total Depth: 6840	Shut In: 4-05-69
Stimulation Method: Sand water frac		Flow Through Casing	Flow Through Tubing: X

Plate

Choke Size, Inches: 4" M.R. - 2.750 plate	Choke Constant: C: 41.9208		Tested through a 3/4" variable choke	
Shut-In Pressure, Casing, PSIG: 1904	+ 12 = PSIA: 1916	Days Shut-In: 10	Shut-In Pressure, Tubing PSIG: 1902	+ 12 = PSIA: 1914
Flowing Pressure: P PSIG: 454 W.H. - 174 M.R.	+ 12 = PSIA: 466 W.H. - 186 M.R.		Working Pressure: P_w PSIG: 1026	+ 12 = PSIA: 1038
Temperature: T= 74 °F Ft= .9868	n = .75		Fpv (From Tables): 1.020	Gravity: .700 Fg = 1.1952

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

Q = Calculated from orifice meter readings = 5381 MCF/D

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

$Aof = \left(\frac{3671056}{2593612} \right)^n = 5381\ (1.4154)^{.75} = 5381\ (1.2976)$

Note: This well produced 34.31 bbls. of 57.0 API gravity oil during the three hour test.

Aof = 6982 MCF/D

TESTED BY DRR - JG

Calculated WITNESSED BY G.A.Lippman

RECEIVED
APR 18 1969
OIL CON. COM.
DIST. 3

H. L. Kendrick