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

EL PASO NATURAL GAS COMPANY

OPEN FLOW TEST DATA

DATE November 1, 1967

Operator: El Paso Natural Gas Company		Lease: Sunray E No. 1 (OWWO)	
Location: 990'N, 990'E, Sec. 9, T-30-N, R-10-W		County: San Juan	State: New Mexico
Formation: Mesa Verde		Pool: Blanco	
Casing: Diameter: 4.500	Set At: Feet: 5833	Tubing: Diameter: 2.375	Set At: Feet: 5713
Pay Zone: From: 4760	To: 5740	Total Depth: 5833	Shut In: 10-22-67
Stimulation Method: Sand Water Frac		Flow Through Casing:	Flow Through Tubing: X

Choke Size, Inches: 2 1/2" Plate 4" Meter Run	Choke Constant: C: 33293		Tested through a 3/4" variable choke	
Shut-In Pressure, Casing, PSIG: 798	+ 12 = PSIA: 810	Days Shut-In: 10	Shut-In Pressure, Tubing PSIG: 509	+ 12 = PSIA: 521
Flowing Pressure: P PSIG: meter 60 WH 215	+ 12 = PSIA: Meter 72 WH 227		Working Pressure: P_w PSIG: 675	+ 12 = PSIA: 687
Temperature: T= 67 °F Ft= .9933	n = .75		Fpv (From Tables): 1.009	Gravity: .688 Fg = 1.2056

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

Q = (Calculated from orifice meter reading) = 1845 MCF/D

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

$Aof = \left(\frac{656100}{184131} \right)^n = (1845)(3.5632)^{.75} = (1845)(2.5935)$

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NOTE: The well slugged oil throughout the test. The well produced 76 bbls. 39° API gravity oil during the test.

Aof = 4785 MCF/D

TESTED BY J. B. Goodwin & R. F. Headrick

Checked
WITNESSED BY T. B. Grant

H. L. Kendrick