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

EL PASO NATURAL GAS COMPANY

OPEN FLOW TEST DATA

DATE May 4, 1965

Operator: El Paso Natural Gas Company		Lease: Hughes No. 2 (OWWO)	
Location: 990'N, 800'E, Section 19, T-29-N, R-8-W		County: San Juan	State: New Mexico
Formation: Mesa Verde		Pool: Blanco	
Casing: Diameter: 4.500	Set At: Feet: 5510	Tubing: Diameter: 2.375	Set At: Feet: 5395
Pay Zone: From: 4736	To: 5436	Total Depth: 5515	Shut In: 4-25-65
Stimulation Method: Sand Water Frac.		Flow Through Casing:	Flow Through Tubing: X

Choke Size, Inches: .750		Choke Constant: C: 12.365			
Shut-in Pressure, Casing, PSIG: 894	+ 12 = PSIA: 906	Days Shut-in: 9	Shut-in Pressure, Tubing PSIG: 892	+ 12 = PSIA: 904	
Flowing Pressure: P PSIG: 300	+ 12 = PSIA: 312		Working Pressure: P_w PSIG: 802	+ 12 = PSIA: 814	
Temperature: T= 76 °F	F_t = .9850	n = .750	Fpv (From Tables): 1.033	Gravity: .700	F_g = .9258

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

$Q = (12.365)\ (312)\ (.9850)\ (.9258)\ (1.033) = 3634$ MCF/D

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

$Aof = \left(\frac{820,836}{158,240} \right)^n = (5.1872)^{.75}\ (3634) = (3.4380)\ (3634)$

NOTE: Medium spray of water and distillate throughout test.

Aof = 12,494 MCF/D

RECEIVED
MAY 6 1965
OIL CON.

TESTED BY D. R. Roberts

CALCULATED BY T. B. Grant

Lewis D. Galloway

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