

EL PASO NATURAL GAS COMPANY
OPEN FLOW TEST DATA

DATE December 16, 1971

Operator EL PASO NATURAL GAS COMPANY		Lease GRAMBLING NO; 1 (OWWO)	
Location 1713 1/N 511 1/E, S 28, T 29N, R 9W		County San Juan	State New Mexico
Formation Mesa Verde		Pool Blanco	
Casing: Diameter 4.500	Set At: Feet 4732	Tubing: Diameter 2.375	Set At: Feet 4661
Pay Zone: From 3734	To 4672	Total Depth: 4735	Shut In 10-4-71
Stimulation Method SWF		Flow Through Casing	Flow Through Tubing XXY

Choke Size, Inches METER 4" MR 2.750" Plate		Choke Constant: C 41.9208		WELL TESTED THRU 3/4" VARIABLE CHOKE	
Shut-In Pressure, Casing, PSIG 684	+ 12 = PSIA 696	Days Shut-In 73	Shut-In Pressure, Tubing PSIG 177	+ 12 = PSIA 189	
Flowing Pressure: P PSIG 183 W.H. 43 M.R.	+ 12 = PSIA 195 W.H.: 55 M.R.		Working Pressure: Pw PSIG 467	+ 12 = PSIA 479	
Temperature: T = 85 °F	Ft = 0.9768	n = 0.75	Fpv (From Tables) 1.003	Gravity 0.706	Fg = 1.1901

$$\text{CHOKE VOLUME} = Q = C \times P_i \times F_i \times F_g \times F_{pv}$$

$$Q = \text{Calculated from orifice meter readings} = 1546 \text{ MCF/D}$$

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

NOTE: Well blew dead after 4 minutes and unloaded water after 20 minutes and unloaded water throughout the remainder of the test.

$$Aof = \left(\frac{484416}{254975} \right)^n = (1546) (1.8999)^{.75} = (1546) (1.6182)$$

$$Aof = 2502 \text{ MCF/D}$$

TESTED BY Dannie R. Roberts

WITNESSED BY

H. E. McAnally
H. E. McANALLY

