

EL PASO NATURAL GAS COMPANY
OPEN FLOW TEST DATA

DATE December 31, 1962

Operator El Paso Natural Gas Company		Lease McElvain No. 2-A (OWO)	
Location 1647'S, 1636'W, Sec. 23-30-7		County Rio Arriba	State New Mexico
Formation Mesa Verde		Pool Blanco	
Casing: Diameter 4.500	Set At: Feet 5490	Tubing: Diameter 2.375	Set At: Feet 5418
Pay Zone: From 4966	To 5440	Total Depth: 5490	Shut In 12-24-62
Stimulation Method Sand/Water Frac.		Flow Through Casing	Flow Through Tubing X

Choke Size, Inches .750	Choke Constant: C 12.365	Days Shut-In 7	Shut-In Pressure, Tubing 182	PSIG 12	PSIA 194
Shut-In Pressure, Casing 934	PSIG 12	PSIA 946	Working Pressure: P _w 439	PSIG 12	PSIA 451
Flowing Pressure: P 108	PSIG 120	Temperature: 69	Flow Through Casing 1.011	Gravity .660	Flow Through Tubing .9535
Flowing Pressure: P 108	PSIG 120	Temperature: 69	Flow Through Casing 1.011	Gravity .660	Flow Through Tubing .9535

CHOKE VOLUME $Q = C \times P_c \times F_p \times F_g \times F_{pv}$

$$Q = (12.365)(120)(.9915)(.9535)(1.011)$$

1418

MCF/D

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

$$A_{of} = \left(\frac{894,916}{691,515} \right)^n$$

$$(1418)(1.2941)^{.75} = (1418)(1.2135)$$

A_{of}

1721

MCF/D

NOTE: Unloaded slug 15 minutes after opening well, then blew heavy mist throughout remainder of test.

TESTED BY D. E. MortensenCalculated by W. D. DawsonChecked by T. B. Grant, Jr.

Lewis D. Galloway
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