

CORRECTED COPY

EL PASO NATURAL GAS COMPANY
OPEN FLOW TEST DATA

DUAL COMPLETION

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DATE February 20, 1964

Operator El Paso Natural Gas Company		Lease Turner Hughes No. 14 (DK)	
Location 1783'N, 1090'E, Sec. 4, T-27-N, R-9-W		County San Juan	State New Mexico
Formation Dakota		Pool Basin	
Casing: Diameter 4.500	Set At: Feet 7129	Tubing: Diameter 2.0625	Set At: Feet 6871
Pay Zone: From 6907	To 7014	Total Depth: 7129	Shut In 2-10-64
Stimulation Method Sand Water Frac.		Flow Through Casing	Flow Through Tubing X

Choke Size, Inches 0.750	Choke Constant: C 12.365	Packer set at 4965'
Shut-In Pressure, Casing, (MV) 963	PSIG - 12 - PSIA 975	Days Shut-In 10
Flowing Pressure: P 128	PSIG - 12 - PSIA 140	Shut-In Pressure, Tubing (DK) 1954
Temperature: T 65 F	F _r .9952	Working Pressure: P _w (Calc.) 392
	F _s .75	F _{pv} (From Tables) 1.018
		Gravity .750 F _g .8944

Initial SIPT (MV) = 966 psig

Final SIPC (MV) = 967 psig

CHOKE VOLUME $Q = C \times P_r \times F_r \times F_g \times F_{pv}$

$$Q = (12.365)(140)(.9952)(.8944)(1.018)$$

1569

MCF/D

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

$$Aof = \left(\frac{3865156}{3711492} \right)^n$$

$$(1569)(1.0414)^{.75} - (1569)(1.0309)$$

Aof 1617

MCF/D



NOTE: Unloaded large slug of water right after opening, then produced slugs of oil throughout remainder of test.

TESTED BY R. F. Headrick & D. E. Mortensen

Calculated by

~~W. D. Dawson~~ BY W. D. Dawson

Checked by Tom B. Grant

Lewis D. Galloway
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