

EL PASO NATURAL GAS COMPANY
OPEN FLOW TEST DATA

DUAL COMPLETION

DATE April 27, 1960

Operator El Paso Natural Gas Company		Lease Johnston State No. 9 (P)	
Location 1500S, 850W; 36-27-6		County Rio Arriba	State New Mex.
Formation Pictured Cliffs		Pool South Blanco	
Casing Diameter 7-5/8	Set At. Feet 3499	Tubing Diameter 1-1/4	Set At. Feet 3376
Perforation Zone From 3308	To 3350	Total Depth 5776 o/o 5726	Shut In Re BI 3/25/60
Stimulation Method Sand Water Frac.		Flow Through Casing X	Flow Through Tubing

Choke Size, Inches .75		Choke Constant, C 12.365	
Shut-In Pressure, Casing, PSIG 1020	PSIA 1032	Days Shut-In 19	Shut-In Pressure, Tubing, PSIG 1019
Flowing Pressure, P, PSIG 101	PSIA 113	Working Pressure, Pw, PSIG 106	PSIA 118
Temperature, T, °F 56	Fr 1.0039	Fpv (From Tables) 1.009	Gravity .620
	Fg .85		Fg .9837

Initial SIPT (M) = 987 psig
Final SIPT (M) = 974 psig

Packer at 4923 - Baker "N"

CHOKE VOLUME $Q = C \times P_1 \times F_1 \times F_g \times F_{pv}$

$$Q = 12.365 \times 113 \times 1.0039 \times .9837 \times 1.009$$

1392

MCF/D

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

$$A_{of} = \left(\frac{1065024}{1051100} \right)^n \quad 1.0132^{.85} \times 1392 = 1.0112 \times 1392$$

$$A_{of} = 1408$$

MCF/D

TESTED BY **W. D. Dawson**WITNESSED BY **F. M. Clark**

Lewis D. Galloway
L. D. Galloway

EL PASO NATURAL GAS COMPANY
OPEN FLOW TEST DATA

DUAL COMPLETION

DATE May 4, 1960

Operator El Paso Natural Gas Company	Lease Johnston State No. 9 (M)
Location 15008, 850W; 36-27-6	County Rio Arriba State New Mexico
Formation Mesa Verde	Flow Blanco
Test Interval 5-1/2 Set At Feet 5770	Test Interval 2 Set At Feet 5603
Flow Rate 5026 GPD	Flow Rate 5776 c/o 5726 GPD
Stratification Method Sand Water Frac.	Flow Through Tubing X

Initial SIPT (PC) = 1010 psig	Final SIPT (PC) = 1014 psig	Packer at 4423
Initial SIPT (MV) = 979 (MV)	Final SIPT (MV) = 991	
Initial SIPT (Calc.) = 90	Final SIPT (Calc.) = 102	
Initial SIPT (Grav.) = 52	Final SIPT (Grav.) = 655	
Initial SIPT (Eq.) = 1.0078	Final SIPT (Eq.) = .9571	

Initial SIPT (PC) = 1010 psig
Final SIPT (PC) = 1014 psig

Packer at 4423

CHECK: $Q = \left(\frac{P_1^2 - P_2^2}{P_1^2 - P_2^2} \right)^n$

$$Q = 12.365 \times 102 \times 1.0078 \times .9571 \times 1.010$$

1229

MCF/D

$$Q = \left(\frac{P_1^2 - P_2^2}{P_1^2 - P_2^2} \right)^n$$

$$Q = \left(\frac{982,081}{940,465} \right)^n$$

$$1.0442^{.75} \times 1229 = 1.0329 \times 1229$$

1269

MCF/D

Checked By **Jesse Goodwin**

Checked By **C. R. Wagner**

Checked By **H. L. Kendrick**



Lewis D. Galloway
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