

EL PASO NATURAL GAS COMPANY
OPEN FLOW TEST DATA

DUAL COMPLETION

DATE March 11, 1959

Operator El Paso Natural Gas		Lease San Juan 28-7 No. 98 (D)	
Location 1800N, 1800E; 29-27-7		County Rio Arriba	State New Mexico
Formation Dakota		Undesignated	
Casing Size 9-5/8	Set At Feet 3071	Tubing Diameter 2"	Set At Feet 7405'
Flow Valve 7268	7430	Test Depth 7540 c/o 7481	Shut in 3/2/59
Stimulation Sand Water Frac.		Flow Through Casing	Flow Through Tubing X

Choke Size .75		Choke Constant 12.365		7" liner 3018 - 7534	
Static Pressure (psig) (MV) 922	PSIG	PSIA	Dry Choke	Static Pressure Tubing (Dak) 1812	PSIG
Flowing Pressure (psig) 170	PSIG	PSIA	Working Pressure (psig) 182	PSIG	PSIA
Temperature (°F) 53	°F	°F	Calc. 401	Gravity 1.020	.670

Initial SIPC (MV) = ~~922~~ 932 psig
Final SIPC (MV) = 932 psig

Packer at 5790

CHOKE VOLUME $Q = C \times P_1 \times P_2 \times P_3 \times P_4$

$$Q = 12.365 \times 182 \times 1.0068 \times .9463 \times 1.020 = 2187 \text{ MCF/D}$$

$$\text{OPEN FLOW } A_{sf} = Q \left(\frac{P_1^2 - P_2^2}{P_3 - P_4} \right)^n$$

$$A_{sf} = \left(\frac{3,326,976}{3,166,175} \right)^n$$

$$1.0507^{.75} \times 2187 = 1.0378 \times 2187$$

$$A_{sf} = 2,270 \text{ MCF/D}$$

R. R. Davis

TESTED BY

WITNESSED BY

Lewis D. Galloway
L. D. Galloway