

EL PASO NATURAL GAS COMPANY
OPEN FLOW TEST DATA

DUAL COMPLETION

DATE July 22, 1959

Operator El Paso Natural Gas Products Company		Lease Frontier 2-C (D)	
Location 890E; 17508, 5-27-11		County San Juan	State New Mexico
Formation Dakota		Pool Undesignated	
Casing Diameter 7"	Set At Feet 6610	Tubing Diameter 2"	Set At Feet 6444
Pay Zone From 6441	To 6449	Total Depth 6616	Shut In: 7/14/59
Stimulation Method Sand Oil		Flow Through Casing	Flow Through Tubing X

Choke Size, Inches .75		Choke Constant 12.365	
Shut-In Pressure, Casing 599 (G)	PSIG 611	PSIA 8	Shut-In Pressure, Tubing 2069 (D)
Flowing Pressure, P 239	PSIG 251	PSIA 518	Working Pressure, P _w Calc.
Temperature 81	PSIG .75	PSIA 1.026	Gravit .720

Initial SIPT (G) = 232 psig

Packer at 6440

Final SIPC (G) = 605 psig

CHOKE VOLUME $Q = C \times P_c \times F_c \times F_g \times F_{gv}$

$$Q = 12.365 \times 251 \times .9804 \times .9129 \times 1.026$$

2850

MCF/D

$$\text{OPEN FLOW } A \times Q \left(\frac{P_c^2 - P_a^2}{P_c^2 - P_a^2} \right)^n$$

$$A \times \left(\frac{4330561}{4062237} \right)^n$$

$$1.0660^{.75} \times 2850 = 1.0491 \times 2850$$

$$A \times 2990 = \text{MCF/D}$$

Don Mortensen

Kreger, EPNG Prod., Smith, N.M.O.C.C.

Checked By H. L. Kendrick

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OIL CONSERVATION COMMISSION

AZTEC DISTRICT OFFICE

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