

EL PASO NATURAL GAS COMPANY
OPEN FLOW TEST DATA

DATE December 28, 1962

Operator El Paso Natural Gas Company	Lease San Juan Unit 27-5 No. 89
Location 1589'S, 800'W, Sec. 4-27-5	County Rio Arriba State New Mexico
Formation Dakota	Pool Basin
casing Diameter 4.500 Set At Feet 7919	Tubing Diameter 2.375 Set At Feet 7833
Flow Zone From 7640 To 7850	Total Depth 7920 C/O 7887 Shut In 12-19-62
Stratification Method Sand Water Prec.	Flow Through Casing (

Gravel Size, inches .75	Gravel Constant, C 12.365	Days Sample 9	Sealing Pressure, PSIA 2576	Permeability, Darcy 2588
Gravel Weight, lbs 2552	Gravel Volume, cu ft 2561	Gravel Specific Gravity 9	Working Pressure, PSIA 1319	Permeability, Darcy 1331
Flowing Pressure, PSIA 384	Flowing Pressure, PSIA 396	Flowing Pressure, PSIA 396	Flowing Pressure, PSIA 1319	Flowing Pressure, PSIA 1331
Flowing Pressure, PSIA 70	Flowing Pressure, PSIA .9905	Flowing Pressure, PSIA .75	Flowing Pressure, PSIA 1.042	Flowing Pressure, PSIA .680
				Flowing Pressure, PSIA .9393

$$Q = \frac{C}{1.418} \times \frac{P_i - P_w}{L} \times \frac{F_g}{F_v} \times \frac{F_p}{F_v}$$

$$Q = (12.365)(396)(.9905)(.9393)(1.042)$$

4747

MCF/D

$$Q = \frac{C}{1.418} \times \frac{P_i^2 - P_w^2}{L} \times \frac{F_g}{F_v} \times \frac{F_p}{F_v}$$

$$Q = \left(\frac{6,697,744}{4,926,183} \right)^{.75} (4747)(1.3596)^{.75} = (4747)(1.2590)$$

NOTE: Blew fair mist.

ACT 5976

MCF/D

D. E. Mortensen

Calculated by W. D. Dawson

Checked by Tom B. Grant

Lewis D. Galloway
Lewis D. Galloway

