

EL PASO NATURAL GAS COMPANY
OPEN FLOW TEST DATA

DUAL COMPLETION

DATE July 5, 1962

Operator El Paso Natural Gas Company	Lease San Juan Unit 27-5 No. 69 (DK)
Location 1090'N, 990'E, Sec. 7-27-5	County Rio Arriba State New Mexico
Formation Dakota	Pool Basin
Casing Diameter 4.5 Set At Feet 7900	Tubing Diameter 2-1/16 Set At Feet 7790
Flow Line 7604 To 7776	Total Depth 7900 Shut In 6-28-62
Stimulation Method Sand/Water Frac.	Flow Through Casing X

Stroke Size, Inches .750	Stroke Constant, D 12.365
Initial Pressure, Casing, (MV) 1026	PSIG 12 PSIA 1038 Days Shut-in 7
Working Pressure, F 252	PSIG 12 PSIA 264
Temperature 66	Flow From Tables 1.027
Fracture Pressure, F .9943	Grav. .670 Fracture Pressure, F .9463
Initial Pressure, Tubing (DK) 2657	PSIG 12 PSIA 2669
Working Pressure, F Calc. 775	PSIG 12 PSIA 787

Initial SIPT (MV) = 487 psig
Final SIPT (MV) = 1032 psig

Fracture Pressure, F = $C \times P_i \times F_1 \times F_2 \times F_3 \times F_4$

$$D = (12.365)(264)(.9943)(.9463)(1.027)$$

3154 MCF/D

$$Q_{fracture} = Q_{well} \left(\frac{P_i^2 - P_a^2}{P_a^2} \right)^n$$

$$Q_{fracture} = \left(\frac{7,123,561}{6,504,192} \right)^n$$

$$(1.0952)^{.75}(3154) = (1.0706)(3154)$$

3377

MCF/D



NOTE: Made spray of distillate throughout test.

By R. F. Headrick

Checked by

C. R. Wagner

Lewis D. Galloway
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