

Initial
Deliverability Test

NEW MEXICO OIL CONSERVATION COMMISSION
GAS WELL TEST DATA SHEET — SAN JUAN BASIN

FORM C-122-A
(EL PASO - 2-1-61)

(TO BE USED FOR FRUITLAND, PICTURED CLIFFS, MESAVERDE, CHACRA, FARMINGTON
& ALL DAKOTA EXCEPT BARKER DOME STORAGE AREA & UTE DOME.)

Pool Dakota Formation Dakota County El Paso

Well Name San Juan Well 27-4 No. 5 12-315

Unit A S 7 T 27 R 4 Pay Zone 0000 To 0000 Flow String 0000

Casing O D 7.000 Wt 23.0 Set at 0000 Tubing O D 2.375 Wt 4.7 L 0000 Top Perf.

Operator EL PASO NATURAL GAS COMPANY Purchasing Pipeline EL PASO NATURAL GAS COMPANY

Date Flow Press. Meas.

Period of test flow

SIP Measured

From 11-13-62 To 11-21-62 7-31-62

Deadweight Flowing Pressure, psia

Flowing Pressure psia

Casing (a) Tubing (b) Meter (c) Chart (d)

Deadweight Shut-in Pressures, psia

Meter Error

Friction Loss

Casing (j) Tubing (k) (e) (f)

7 Day Avg. Flowing Pres., psia

Chart (g) Corrected (h) P_f (i) Gravity .620

G. L. = 4902 $1-e^{-s} = .900$ $(F_c Q)^2 = 20.876$

$\pm R^2$ average choke = 70,000
 $(1-e^{-s})(F_c Q)^2 = R^2 = 20.876$ $P_i^2 = 201.121$ $P_w^2 = 157.904$

$Q = \frac{1.06}{(\text{integrated})} \times \left[\sqrt{\frac{(c)}{(d)}} \right] = 1.06$

$D = Q \times \left(\left[\frac{(P_c^2 - P_d^2)}{(P_c^2 - P_w^2)} \right]^N \right) = 1.06 \times \left(\left[\frac{201.121 - 157.904}{201.121 - 157.904} \right]^N \right) = 1.06$

NOTE: Installed Bottom Hole Choke at 7570'. Turned back on production 11-1-62.
This well has a 3/16" O.D. Bottom Hole Choke at 7570'. True $P_i^2 = R^2 + P_d^2 + P_f^2 + P^2$
average choke taken from Calibration Curve for 3/16" choke dated 9-19-62. Calibration
Curve for 3/16" O.D. Choke not available.

SUMMARY

$P_c = 1946$ psia

Company EL PASO NATURAL GAS COMPANY

$Q = 1.06$ MCF/D

By E. L. Hunsbaker

$P_w = 502$ psia

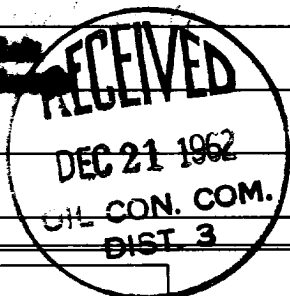
Title Dr. San Juan

$P_d = 973$ psia

Witnessed By

$D = 1.06$ MCF/D

Company



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