

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

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

Pool South Blanco Formation Pictured Cliffs County Rio Arriba
Purchasing Pipeline El Paso Natural Gas Date Test Filed _____
Operator El Paso Natural Gas Lease San Juan 28-7 • Well No. 92
Unit L Sec. 20 Twp. 27 Rge. 7 Pay Zone: From 2904 To 2954
Casing: OD 5-1/2 WT. 15.50 Set At 3039 Tubing: OD 1-1/4 WT. 2.4 T. Perf. 2908
Produced Through: Casing _____ Tubing X Gas Gravity: Measured .681 Estimated _____
Date of Flow Test: From 4/7/58 To 4/15/58 * Date S.I.P. Measured 1/10/58 (41 days)
Meter Run Size _____ Orifice Size _____ Type Chart _____ Type Taps _____

OBSERVED DATA

Flowing casing pressure (Dwt) _____ psig + 12 = _____ psia (a)
Flowing tubing pressure (Dwt) _____ psig + 12 = _____ psia (b)
Flowing meter pressure (Dwt) _____ psig + 12 = _____ psia (c)
Flowing meter pressure (meter reading when Dwt. measurement taken:
Normal chart reading _____ psig + 12 = _____ psia (d)
Square root chart reading (_____)² x spring constant _____ = _____ psia (d)
Meter error (c) - (d) or (d) - (c) ± _____ = _____ psi (e)
Friction loss, Flowing column to meter:
(b) - (c) Flow through tubing: (a) - (c) Flow through casing = _____ psi (f)
Seven day average static meter pressure (from meter chart):
Normal chart average reading _____ psig + 12 = _____ psia (g)
Square root chart average reading (7.75)² x sp. const. 5 = 300 psia (g)
Corrected seven day avge. meter press. (p_f) (g) + (e) = 300 psia (h)
P_t = (h) + (f) = 300 psia (i)
Wellhead casing shut-in pressure (Dwt) 858 psig + 12 = 870 psia (j)
Wellhead tubing shut-in pressure (Dwt) 858 psig + 12 = 870 psia (k)
P_c = (j) or (k) whichever well flowed through = 870 psia (l)
Flowing Temp. (Meter Run) 54 °F + 460 = 514 °Abs (m)
P_d = 1/2 P_c = 1/2 (l) = 435 psia (n)

FLOW RATE CALCULATION

$$Q = \text{(Integrated)} \times \left(\frac{\sqrt{(c)}}{\sqrt{(d)}} \right) = \frac{424}{1} = 424 \text{ MCF/da}$$

DELIVERABILITY CALCULATION

$$D = Q \frac{424}{\left[\frac{P_c^2 - P_d^2}{P_c^2 - P_w^2} \right]^{0.5}} = \frac{424}{\left[\frac{870^2 - 435^2}{870^2 - 323^2} \right]^{0.5}} = \frac{424}{1.12} = 377 \text{ MCF/da.}$$

SUMMARY

P_c = 870 psia
Q = 424 Mcf/day
P_w = 323 psia
P_d = 435 psia
D = 377 Mcf/day

Company El Paso Natural Gas
By Harold L. Hendrich
Title _____
Witnessed by _____
Company _____

- * This is date of completion test.
- * Meter error correction factor

REMARKS OR FRICTION CALCULATIONS

GL	(1-e ^{-S})	(F _c Q) ²	(F _c Q) ² / R ²	(1-e ^{-S})	P _t ² / (Column 1)	P _t ² + R ²	P _w
1980	.134	108.973	14,602		90,000	104,602	323

D at 850 = 435



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