

Initial Deliverability
Test

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 DAKOTA Formation UNDESIGNATED County SAN JUAN
Purchasing Pipeline EL PASO NATURAL GAS CO. Date Test Filed JANUARY 12, 1960
Operator ALEX N. CAMPBELL Lease FEDERAL TONKIN Well No. 1
Unit P Sec. 23 Twp. 27 Rge. 12 Pay Zone: From 6094 To 6112
Casing: OD 5 1/2 WT. Set At 6256 Tubing: OD 2" WT. T. Perf. 6068
Produced Through: Casing Tubing X Gas Gravity: Measured .716 Estimated
Date of Flow Test: From 11 - 22 To 11 - 30 * Date S.I.P. Measured 1 - 3 - 58 59
Meter Run Size 4" Orifice Size 2.000 Type Chart SR Type Taps FLANGE

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 (7.05) ² x sp. const. 1.000 = 497 psia (g)
Corrected seven day avge. meter press. (p_f) (g) + (e) = psia (h)
P_t = (h) + (f) = 497 psia (i)
Wellhead casing shut-in pressure (Dwt) psig + 12 = psia (j)
Wellhead tubing shut-in pressure (Dwt) 1928 psig + 12 = 1940 psia (k)
P_c = (j) or (k) whichever well flowed through = 1940 psia (l)
Flowing Temp. (Meter Run) 82 °F + 460 = 542 °Abs (m)
P_d = 1/2 P_c = 1/2 (l) = 970 psia (n)

Q = X $\left(\frac{\text{FLOW RATE CALCULATION}}{\frac{V(c)}{V(d)}} = \frac{\text{ }}{\text{ }} = \text{ } \right)^n$ = MCF/day
(Integrated)

DELIVERABILITY CALCULATION

D = Q 1.715 $\left[\frac{P_c^2 - P_d^2}{P_c^2 - P_w^2} \right]^{0.875} = \frac{2,822,700}{3,446,132} = 0.819$ 8610 = 1477 MCF/day

SUMMARY

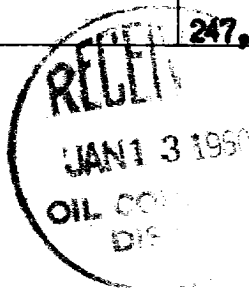
P_c = 1940 psia
Q = 1715 Mcf/day
P_w = 564 psia
P_d = 970 psia
D = 1477 Mcf/day

Company GEOLLECTRIC, INC.
By B. H. Hays
Title AGENT
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 (1-e ^{-S}) R ²	P _t ² (Column i)	P _t ² + R ²	P _w
4345	.271	259,997	70,459	247,009	317,468	564



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1992

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1. *Chlorophyll a* (Chl *a*)

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