

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 YAPACITO Formation PICTURED CLIFFS County RIO ARriba
Purchasing Pipeline PACIFIC NORTHWEST PIPELINE CORP. Date Test Filed SEPT. 2, 1959
Operator CONTINENTAL PIPELINE CORP. Lease "T" Well No. 1-21
Unit 11 Sec. 21 Twp. 20N Rge. 2W Pay Zone: From 2000 To 2042
Casing: OD 7-5/8 WT 15.5 Set At 4100 Tubing: OD 2-3/8 WT 4.7 T. Per 2025
Produced Through: Casing Tubing X Gas Gravity: Measured 0.672 Estimated
Date of Flow Test: From 8-27-59 To 9-7-59 * Date S.I.P. Measured 11-24-58
Meter Run Size 4.007 Orifice Size 0.750 Type Chart 1-10 Type Taps 21

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 401 psig + 12 = 503 psia (g)
Square root chart average reading ()² x sp. const. = psia (g)
Corrected seven day avge. meter press. (p_f) (g) + (e) = 502 psia (h)
P_t = (h) + (f) = 502 psia (i)
Wellhead casing shut-in pressure (Dwt) 1004 psig + 12 = 1016 psia (j)
Wellhead tubing shut-in pressure (Dwt) 1000 psig + 12 = 1012 psia (k)
P_c = (j) or (k) whichever well flowed through = 1012 psia (l)
Flowing Temp. (Meter Run) 46 °F + 460 = 506 °Abs (m)
P_d = 1/2 P_c = 1/2 (l) = 506 psia (n)

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

DELIVERABILITY CALCULATION

D = Q 101 $\left[\frac{(P_c^2 - P_d^2)}{(P_c^2 - P_w^2)} = \frac{777,242}{722,760} \right]^n \frac{0.0041}{(0.0030)^2} = \text{100}$ MCF/day.

SUMMARY

P_c = 1012 psia
Q = 101 Mcf/day
P_w = 504 psia
P_d = 500 psia
D = 100 Mcf/day

Company CONTINENTAL PIPELINE CORP.
By M. B. JONES N.S. JONES, FRUITLAND PRODUCTION
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 R ²	(1-e ^{-S})	P _t ² (Column i)	P _t ² + R ²	P _w
2003	0.172	3.226	365		253,000	253,544	502.6

P_e = 9.408



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