

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

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

Pool Active Formation Flint Hills County San Juan
Purchasing Pipeline Continental Gas Pipeline Date Test Filed March 15, 1967
Operator Continental Gas Pipeline Lease Active Well No. 111
Unit 1 Sec. 22 Twp. 36N Rge. 20W Pay Zone Permian To Permian
Casing: OD 2 7/8 WT 20 Set At 2040 Tubing: OD 2 1/8 WT 15 Set At 2040
Produced Through: Casing Yes Tubing Yes Gas Gravity: Measured Yes Estimated Yes
Date of Flow Test: From 3/15/67 To 3/15/67 * Date S.I.P. Measured 3/15/67
Meter Run Size 2" Orifice Size 2 1/2" Type Chart Standard Type Tank Standard

OBSERVED DATA

Flowing casing pressure (Dwt) 120 psia + 12 = 132 psia (a)
Flowing tubing pressure (Dwt) 110 psia + 12 = 122 psia (b)
Flowing meter pressure (Dwt) 100 psia + 12 = 112 psia (c)
Flowing meter pressure (meter reading when Dwt measurement taken:
Normal chart reading 100 psia + 12 = 112 psia (d)
Square root chart reading (100)² * spring constant 1 = 100 psia (d)
Meter error (c) - (d) or (d) - (c) ± = 0 psia (e)
Friction loss, flowing column to meter:
(b) - (c) Flow through tubing; (a) - (c) Flow through casing = 10 psia (f)
Seven day average static meter pressure (from meter start):
Normal chart average reading 100 psia + 12 = 112 psia (g)
Square root chart average reading (100)² * sp. const. 1 = 100 psia (g)
Corrected seven day avg. meter press. (g) (g) + (e) = 112 psia (h)
P_i = (h) + (f) = 122 psia (i)
Wellhead casing shut-in pressure (Dwt) 110 psia + 12 = 122 psia (j)
Wellhead tubing shut-in pressure (Dwt) 100 psia + 12 = 112 psia (k)
P_c = (j) or (k) whichever well flowed through = 112 psia (l)
Flowing Temp. (Meter Run) 100 °F + 460 = 560 °R (m)
P_d = 1/2 P_c = 1/2 (l) = 56 psia (n)

FLOW RATE CALCULATION

Q = 100 X $\left(\frac{V_{sc}}{V_{at}} \right) = \frac{100}{1.0} = 100$ MCF/day
(Integrated)

DELIVERABILITY CALCULATION

D = Q 100 $\left[\frac{P_c^2 - P_d^2}{P_c^2 - P_d^2} \right]^n = \frac{100}{1.0} = 100$ MCF/day

SUMMARY

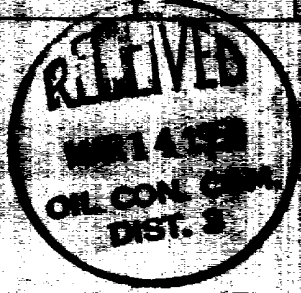
P_c = 112 psia
Q = 100 Mcf/day
P_w = 112 psia
P_d = 56 psia
D = 100 Mcf/day

Company Continental Gas Pipeline
By John M. Kennedy
Title Manager
Witnessed by
Company

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

REMARKS OR FRICTION CALCULATIONS

GL	(1-e ^{-u})	1/P _d ²	(FQ) ² (1-e ^{-u})	P _i ²	P _c ² + R ²	P _w
			R ²	(Column 4)		



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