

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 Undesignated Formation Pictured Cliffs County El Arriba
Purchasing Pipeline El Paso Natural Gas Co Date Test Filed January 23, 1956
Operator E. R. Gurney Lease Gurney-Older Well No. 2
Unit A Sec. 24 Twp. 24N Rge. 6W Pay Zone: From _____ To _____
Casing: OD 2 1/2 WT. _____ Set At 2042 Tubing: OD 1 WT. _____ T. Perf. 2070
Produced Through: Casing _____ Tubing 1 Gas Gravity: Measured .605 Estimated _____
Date of Flow Test: From 1/2/56 To 1/4/56 * Date S.I.P. Measured 10/21/55
Meter Run Size 4" Orifice Size _____ Type Chart 24 1/2 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 (4.93) ² x sp. const. 5.00 _____ = _____ psia (g)
Corrected seven day avge. meter press. (P_f) (g) + (e) _____ = _____ psia (h)
P_t = (h) + (f) _____ = _____ psia (i)
Wellhead casing shut-in pressure (Dwt) 600 psig + 12 = 702 psia (j)
Wellhead tubing shut-in pressure (Dwt) 600 psig + 12 = 702 psia (k)
P_c = (j) or (k) whichever well flowed through _____ = _____ psia (l)
Flowing Temp. (Meter Run) 10 °F + 460 _____ = _____ °Abs (m)
P_d = 1/2 P_c = 1/2 (l) _____ = _____ psia (n)

FLOW RATE CALCULATION

Q = 281 X $\left(\frac{\sqrt{(c)}}{\sqrt{(d)}} \right) = \text{_____ MCF/da}$
(Integrated)

DELIVERABILITY CALCULATION

D = Q 281 $\left[\frac{P_c^2 - P_d^2}{P_c^2 - P_w^2} \right]^n = \text{_____ MCF/da.}$
1.000

SUMMARY

P_c = 702 psia
Q = 281 Mcf/day
P_w = 300 psia
P_d = 300 psia
D = 280 Mcf/day

Company Continental, Inc
By H. J. McConathy H. J. McConathy
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})	P _t ² (Column i)	P _t ² + R ²	P _w
<u>24.18</u>	<u>.096</u>	<u>280.940</u>	<u>19.576</u>	<u>281.976</u>	<u>281.408</u>	<u>300</u>

RECEIVED

JAN 23 1956
OIL CON. COM.
DIST. 3

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