

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 Artes Formation Permian County San Juan
Purchasing Pipeline Southern Union Gas Company Date Test Filed March 10, 1958
Operator Southern Union Gas Company Lease Adair Well No. 9
Unit X Sec. 22 Twp. 36 N Rge. 10 W Pay Zone: From 1900 To 2000
Casing: OD 3 1/2 WT. 13.50 Set At 200 Tubing: OD 1 WT. 1.75 T. Perf. 1970
Produced Through: Casing XX Tubing _____ Gas Gravity: Measured .60 Estimated _____
Date of Flow Test: From 2/7/58 To 2/14/58 * Date S.I.P. Measured 2/14/58
Meter Run Size 1 1/2 Orifice Size 1 1/4 Type Chart Normal 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 205 psig + 12 = 217 psia (g)
Square root chart average reading (_____) ² x sp. const. _____ = _____ psia (g)
Corrected seven day avge. meter press. (p_f) (g) + (e) _____ = 217 psia (h)
P_t = (h) + (f) _____ = 217 psia (i)
Wellhead casing shut-in pressure (Dwt) 630 psig + 12 = 642 psia (j)
Wellhead tubing shut-in pressure (Dwt) 630 psig + 12 = 642 psia (k)
P_c = (j) or (k) whichever well flowed through _____ = 642 psia (l)
Flowing Temp. (Meter Run) 100 °F + 460 _____ = 560 °Abs (m)
P_d = 1/2 P_c = 1/2 (l) _____ = 321 psia (n)

FLOW RATE CALCULATION

Q = 302 X $\left(\frac{V(c)}{V(d)} \right) = \frac{302}{1.0} = 302$ MCF/day
(integrated)

DELIVERABILITY CALCULATION

D = Q 302 $\left[\frac{P_c^2 - P_d^2}{P_c^2 - P_w^2} \right]^{0.85} = \frac{302}{1.0} = 302$ MCF/day.

SUMMARY

P_c = 642 psia
Q = 302 Mcf/day
P_w = 217 psia
P_d = 321 psia
D = 302 Mcf/day

Company Southern Union Gas Company
By Bill [Signature]
Title Engineering Dept.
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



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