

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 Ballard Formation Pictured Cliffs County San Juan
Purchasing Pipeline Southern Union Gas Company Date Test Filed January 20, 1959
Operator Southern Union Gas Company Lease Newsom Well No. 5-B
Unit G Sec. 17 Twp. 26 N Rge. 8 W Pay Zone: From 2096 To 2176
Casing: OD 5 1/2" WT. 15.5# Set At 2235 Tubing: OD 1" WT. 1.7# T. Perf. _____
Produced Through: Casing XX Tubing _____ Gas Gravity: Measured .688 Estimated _____
Date of Flow Test: From 12/24/58 To 12/31/58 * Date S.I.P. Measured 9/9/58
Meter Run Size 1" Orifice Size 1 7/8" 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 190 psig + 12 = 202 psia (g)
Square root chart average reading (_____)² x sp. const. _____ = _____ psia (g)
Corrected seven day avge. meter press. (p_f) (g) + (e) _____ = 202 psia (h)
P_t = (h) + (f) _____ = 202 psia (i)
Wellhead casing shut-in pressure (Dwt) 643 psig + 12 = 655 psia (j)
Wellhead tubing shut-in pressure (Dwt) 643 psig + 12 = 655 psia (k)
P_c = (j) or (k) whichever well flowed through _____ = 655 psia (l)
Flowing Temp. (Meter Run) 62 °F + 460 _____ = 522 °Abs (m)
P_d = 1/2 P_c = 1/2 (l) _____ = 328 psia (n)

Q = 859 X $\left(\frac{\text{FLOW RATE CALCULATION}}{\sqrt{(c)}} = \frac{\text{ } }{\sqrt{(d)}} = \frac{\text{ } }{\text{ } } = \frac{\text{ } }{\text{ } } \right)^* = \text{ } \text{MCF/da}$
(Integrated)

DELIVERABILITY CALCULATION

D = Q 859 $\left[\frac{P_c^2 - P_d^2}{P_c^2 - P_w^2} \right]^{0.85} = \frac{\text{ } }{\text{ } } = \text{ } \text{MCF/da.}$
321,441 388,221 0.85 .85176 732

SUMMARY

P_c = 655 psia
Q = 859 Mcf/day
P_w = 202 psia
P_d = 328 psia
D = 732 Mcf/day

Company Southern Union Gas Company
By Bill McKinney
Title Exploration 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

Friction Loss Negligible



