

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 Pictured Cliffs Formation Pictured Cliffs County San Juan
Purchasing Pipeline Southern Union Gas Company Date Test Filed 3/20/56

Operator Southern Union Gas Company Lease Newsom Well No. 3
Unit J Sec. 18 Twp. 26-N Rge. 8-W Pay Zone: From 1960' To 2050'
Casing: OD 5-1/2" WT. 15.5# Set At 1969' Tubing: OD 1" WT. 1.7# T. Perf. _____
Produced Through: Casing XX Tubing _____ Gas Gravity: Measured _____ Estimated .660
Date of Flow Test: From 1/16/56 To 1/24/56 * Date S.I.P. Measured 5/11/55
Meter Run Size 4" Orifice Size 3/4" 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 197 psig + 12 = 209 psia (g)
Square root chart average reading (_____) ² x sp. const. _____ = --- psia (g)
Corrected seven day avge. meter press. (p_f) (g) + (e) _____ = 209 psia (h)
P_t = (h) + (f) _____ = 209 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) 60 °F + 460 _____ = 520 °Abs (m)
P_d = 1/2 P_c = 1/2 (l) _____ = 327 psia (n)

Q = 178 X $\left(\frac{\text{FLOW RATE CALCULATION}}{\sqrt{(c)}} = \frac{\text{None}}{\sqrt{(d)}} \right)^* = \underline{178}$ MCF/da
(Integrated)

DELIVERABILITY CALCULATION
D = Q 178 $\left[\frac{(P_c^2 - P_d^2) = \underline{322,096}}{(P_c^2 - P_w^2) = \underline{385,344}} \right]^{0.85} \underline{.85866} = \underline{153}$ MCF/da.

SUMMARY

P_c = 655 psia
Q = 178 Mcf/day
P_w = 209 psia
P_d = 327 psia
D = 153 Mcf/day

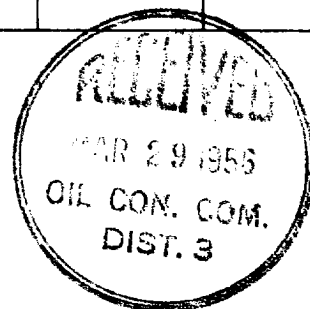
Company Southern Union Gas Company
By L. S. Muennink
Title Jr. Petroleum Engineer
Witnessed by _____
Company _____

* 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 | | | | | | |

OK



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