

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. 2
Unit M Sec. 17 Twp. 26-N Rge. 8-W Pay Zone: From 2012' To 2055'
Casing: OD 5½" WT. 15.5# Set At 2012' Tubing: OD 1" WT. 1.7# T. Perf. _____
Produced Through: Casing XX Tubing _____ Gas Gravity: Measured .673 Estimated _____
Date of Flow Test: From 1-24-56 To 1-31-56 * Date S.I.P. Measured 1-5-55
Meter Run Size 4" Orifice Size 1½" 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 172 psig + 12 = 184 psia (g)
Square root chart average reading (_____) ² x sp. const. _____ = --- psia (g)
Corrected seven day avge. meter press. (p_f) (g) + (e) _____ = 184 psia (h)
P_t = (h) + (f) _____ = 184 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 = ½ P_c = ½ (l) _____ = 327 psia (n)

FLOW RATE CALCULATION

Q = 622 X $\left(\frac{\sqrt{(c)}}{\sqrt{(d)}} \right)^* = \underline{\underline{622}}$ MCF/da
(Integrated) $\sqrt{(c)} = \underline{\underline{\text{None}}}$

DELIVERABILITY CALCULATION

D = Q 622 $\left[\frac{P_c^2 - P_d^2}{P_c^2 - P_w^2} \right]^{0.85} = \underline{\underline{523}}$ MCF/da
 $\frac{P_c^2 - P_d^2}{P_c^2 - P_w^2} = \frac{322,096}{395,169}$ 0.84046

SUMMARY

P_c = 655 psia
Q = 622 Mcf/day
P_w = 184 psia
P_d = 327 psia
D = 523 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})	P _t ² (Column i)	P _t ² + R ²	P _w
			<u>Friction Loss Negligible</u>			

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