

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. 1-A
Unit P Sec. 15 Twp. 26-N Rge. 8-W Pay Zone: From 2767' To 2830'
Casing: OD 5½" WT. 15.5# Set At 2767' Tubing: OD 1" WT. 1.7# T. Perf. _____
Produced Through: Casing XX Tubing _____ Gas Gravity: Measured _____ Estimated _____
Date of Flow Test: From 1-24-56 To 1-31-56 * Date S.I.P. Measured 4-28-55
Meter Run Size ½" Orifice Size 1" Type Chart Normal Type Taps Flanges

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 170 psig + 12 = 182 psia (g)
Square root chart average reading (_____) ² x sp. const. _____ = _____ psia (g)
Corrected seven day avge. meter press. (p_f) (g) + (e) = 182 psia (h)
P_t = (h) + (f) = 182 psia (i)
Wellhead casing shut-in pressure (Dwt) 649 psig + 12 = 661 psia (j)
Wellhead tubing shut-in pressure (Dwt) 649 psig + 12 = 661 psia (k)
P_c = (j) or (k) whichever well flowed through = 661 psia (l)
Flowing Temp. (Meter Run) 60 °F + 460 = 220 °Abs (m)
P_d = ½ P_c = ½ (l) = 330 psia (n)

Q = 245 X $\left(\frac{\text{FLOW RATE CALCULATION}}{\sqrt{(c)}} = \text{None} \right)^* = \text{245 MCF/da}$
(integrated) $\sqrt{(d)}$

DELIVERABILITY CALCULATION
D = Q 245 $\left[\frac{P_c^2 - P_d^2}{P_c^2 - P_w^2} \right]^{0.85} = \text{205 MCF/da.}$
 $\frac{328,021}{403,797}$ $\frac{.83805}{.83805}$

SUMMARY

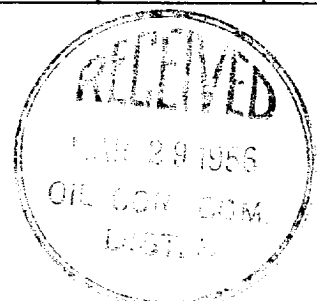
P_c = 661 psia
Q = 245 Mcf/day
P_w = 182 psia
P_d = 330 psia
D = 205 Mcf/day
Company Southern Union Gas Company
By L. S. Muenink
Title Jr. Petroleum Engineer
Witnessed by _____
Company _____

* 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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