

NEW MEXICO OIL CONSERVATION COMMISSION
GAS WELL TEST DATA SHEET - - SAN JUAN BASIN

(TO BE USED FOR FRUITLAND, PICTURED CLIFFS, MESAVERDE, & ALL SAKOTA
EXCEPT BARKER DOME STORAGE AREA)

Pool Artes Pictured Cliffs Formation Pictured Cliffs County San Juan
Purchasing Pipeline Southern Union Gas Company Date Test Filed 2-17-56
Operator Southern Union Gas Company Lease Zachry Well No. 7
Unit N Sec. 34 Twp. 29N Rge. 10W Pay Zone: From 1984' To 1991'
Casing: OD 5-1/2" WT. 15.5# Set At 1984' Tubing: OD 1" WT. 1.7# T. Perf. _____
Produced Through: Casing XX Tubing _____ Gas Gravity: Measured _____ Estimated .667
Date of Flow Test: From 12-31-55 To 1-8-56 * Date S.I.P. Measured 1-20-55
Meter Run Size 4" 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 193 psig + 12 = 205 psia (g)
Square root chart average reading (_____) ² x sp. const. _____ = _____ psia (g)
Corrected seven day avge. meter press. (p_f) (g) + (e) _____ = 205 psia (h)
P_t = (h) + (f) _____ = 205 psia (i)
Wellhead casing shut-in pressure (Dwt) 600 psig + 12 = 612 psia (j)
Wellhead tubing shut-in pressure (Dwt) 600 psig + 12 = 612 psia (k)
P_c = (j) or (k) whichever well flowed through _____ = 612 psia (l)
Flowing Temp. (Meter Run) 60 °F + 460 _____ = 520 °Abs (m)
P_d = 1/2 P_c = 1/2 (l) _____ = 306 psia (n)

FLOW RATE CALCULATION

Q = 506 X $\left(\frac{V(c)}{V(d)} \right) = \text{None} = \text{506 MCF/da}$
(Integrated)

DELIVERABILITY CALCULATION

D = Q 506 $\left[\frac{P_c^2 - P_d^2}{P_c^2 - P_w^2} \right]^{0.85} = \text{.86640} = \text{438 MCF/da.}$

SUMMARY

P_c = 612 psia
Q = 506 Mcf/day
P_w = 205 psia
P_d = 306 psia
D = 438 Mcf/day

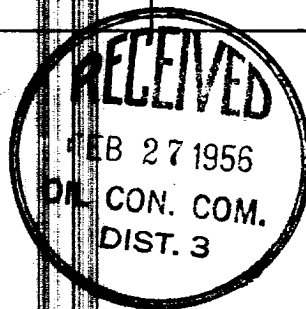
Company Southern Union Gas Company
By L. S. Muehling
Title Jr. Petroleum Engineer
Witnessed by _____
Company _____

* 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 + R ²	P _w

Friction Loss Negligible



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