

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 Astec Pictured Cliffs Formation Pictured Cliffs County San Juan
Purchasing Pipeline Southern Union Gas Company Date Test Filed 2-21-56
Operator Southern Union Gas Company Lease Zachry Well No. 9
Unit P Sec. 33 Twp. 29N Rge. 10W Pay Zone: From 1987' To 2028'
Casing: OD 7-1/2" WT. 15.5# Set At 1987' Tubing: OD 1" WT. 1.7# T. Perf.
Produced Through: Casing X Tubing Gas Gravity: Measured .667 Estimated
Date of Flow Test: From 12/31/55 To 1/8/56 * Date S.I.P. Measured 7/22/55
Meter Run Size 4" Orifice Size 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: _____ = _____ psi (f)
(b) - (c) Flow through tubing: (a) - (c) Flow through casing _____ = _____ psi
Seven day average static meter pressure (from meter chart):
Normal chart average reading 194 psig + 12 = 206 psia (g)
Square root chart average reading (_____) ² x sp. const. _____ = _____ psia (g)
Corrected seven day avge. meter press. (p_f) (g) + (e) _____ = 206 psia (h)
P_t = (h) + (f) _____ = 206 psia (i)
Wellhead casing shut-in pressure (Dwt) 648 psig + 12 = 660 psia (j)
Wellhead tubing shut-in pressure (Dwt) 648 psig + 12 = 660 psia (k)
P_c = (j) or (k) whichever well flowed through _____ = 660 psia (l)
Flowing Temp. (Meter Run) 60 °F + 460 _____ = 520 °Abs (m)
P_d = 1/2 P_c = 1/2 (l) _____ = 330 psia (n)

FLOW RATE CALCULATION

Q = 298 X $\left(\frac{\sqrt{(c)}}{\sqrt{(d)}} \right) = \text{None} = \text{298 MCF/da}$
(Integrated)

DELIVERABILITY CALCULATION

D = Q 298 $\left[\frac{P_c^2 - P_d^2}{P_c^2 - P_w^2} \right]^{.85} = \text{.85} \text{ } \text{.85436} = \text{256 MCF/da.}$

SUMMARY

P_c = 660 psia
Q = 298 Mcf/day
P_w = 206 psia
P_d = 330 psia
D = 256 Mcf/day

Company Southern Union Gas Company
By L. S. Macmillan
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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