

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 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. 6
Unit 1 Sec. 10 Twp. 28N Rge. 10W Pay Zone: From 1935' To 2000'
Casing: OD 8-1/2" WT. 15.5# Set At 1935' 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 6-20-55
Meter Run Size 4" Orifice Size 1" 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) 595 psig + 12 = 607 psia (j)
Wellhead tubing shut-in pressure (Dwt) 595 psig + 12 = 607 psia (k)
P_c = (j) or (k) whichever well flowed through = 607 psia (l)
Flowing Temp. (Meter Run) 60 °F + 460 = 520 °Abs (m)
P_d = 1/2 P_c = 1/2 (l) = 303 psia (n)

Q = 468 X $\left(\frac{\text{FLOW RATE CALCULATION}}{\sqrt{(c)}} = \frac{\text{None}}{\sqrt{(d)}} \right) = \underline{468}$ MCF/day
(integrated)

D = Q 468 $\left[\frac{P_c^2 - P_d^2}{P_c^2 - P_w^2} \right]^{0.85 (0.8475)^n} = \underline{404}$ MCF/day.
276,640 262,216 312,000 326,424 0.8666 8689

SUMMARY

P_c = 607 psia
Q = 468 Mcf/day
P_w = 205 psia
P_d = 303 psia
D = 404 Mcf/day

Company Southern Union Gas Company
By L. S. Munnink L. S. Munnink
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 4)	P _t ² + R ²	P _w
			R ²			
Friction Loss Negligible						

OK



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