

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 Cliff Formation Pictured Cliff County San Juan
Purchasing Pipeline Southern Union Gas Company Date Test Filed 2/21/56
Operator Southern Union Gas Company Lease Zachry Well No. 10
Unit D Sec. 34 Twp. 29N Rge. 10W Pay Zone: From 1876' To 1945'
Casing: OD 3-1/2" WT. 15.74 Set At 1876' Tubing: OD 1" WT. 1.74 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 9/29/55
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: _____ = _____ psi (f)
(b) - (c) Flow through tubing; (a) - (c) Flow through casing
Seven day average static meter pressure (from meter chart):
Normal chart average reading 203 psig + 12 = 215 psia (g)
Square root chart average reading (_____) ² x sp. const. _____ = _____ psia (g)
Corrected seven day avge. meter press. (p_f) (g) + (e) _____ = 215 psia (h)
P_t = (h) + (f) _____ = 215 psia (i)
Wellhead casing shut-in pressure (Dwt) 667 psig + 12 = 679 psia (j)
Wellhead tubing shut-in pressure (Dwt) 667 psig + 12 = 679 psia (k)
P_c = (j) or (k) whichever well flowed through _____ = 679 psia (l)
Flowing Temp. (Meter Run) 60 °F + 460 _____ = 520 °Abs (m)
P_d = 1/2 P_c = 1/2 (l) _____ = 339 psia (n)

FLOW RATE CALCULATION

Q = 422 X $\left(\frac{\sqrt{(c)}}{\sqrt{(d)}} \right) = \text{None} = \text{None}$ MCF/da
(Integrated)

DELIVERABILITY CALCULATION

D = Q 422 $\left[\frac{P_c^2 - P_d^2}{P_c^2 - P_w^2} \right]^{.85} = \text{None}$ MCF/da.

SUMMARY

P_c = 679 psia
Q = 422 Mcf/day
P_w = 215 psia
P_d = 339 psia
D = 362 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})	P _t ²	P _t ² + R ²	P _w
			R ²	(Column 1)		
			Friction Loss Negligible			

OK



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