

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 April 10, 1956
Operator Southern Union Gas Company Lease Starr Well No. 2
Unit C Sec. 5 Twp. 26N Rge. 8W Pay Zone: From 2057 To 2141
Casing: OD 5-1/2" WT. 15.5# Set At 2057' Tubing: OD 1" WT. 1.7# T. Perf. _____
Produced Through: Casing XX Tubing _____ Gas Gravity: Measured _____ Estimated .660
Date of Flow Test: From 3/23/56 To 3/31/56 * Date S.I.P. Measured 12/13/55
Meter Run Size 4" Orifice Size 1.5" 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) \pm _____ = _____ 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 191 psig + 12 = 203 psia (g)
Square root chart average reading (_____) ² x sp. const. _____ = 203 psia (g)
Corrected seven day avge. meter press. (p_f) (g) + (e) _____ = 203 psia (h)
P_t = (h) + (f) _____ = 203 psia (i)
Wellhead casing shut-in pressure (Dwt) 694 psig + 12 = 706 psia (j)
Wellhead tubing shut-in pressure (Dwt) 688 psig + 12 = 700 psia (k)
P_c = (j) or (k) whichever well flowed through _____ = 706 psia (l)
Flowing Temp. (Meter Run) 60 °F + 460 _____ = 520 °Abs (m)
P_d = 1/2 P_c = 1/2 (l) _____ = 353 psia (n)

FLOW RATE CALCULATION

Q = 799 X $\left(\frac{V(c)}{V(d)} \right)^* = \underline{799}$ MCF/da
(Integrated)

DELIVERABILITY CALCULATION

D = Q 799 $\left[\frac{P_c^2 - P_d^2}{P_c^2 - P_w^2} \right]^{0.85} = \underline{673}$ MCF/da.
 $\frac{373,827}{457,227}$

SUMMARY

P_c = 706 psia
Q = 799 Mcf/day
P_w = 203 psia
P_d = 353 psia
D = 673 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			



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