

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 Aztec Pictured Cliffs FORMATION Pictured Cliffs COUNTY San Juan
PURCHASING PIPELINE Southern Union Gas Company DATE TEST FILED December 13, 1955

OPERATOR Southern Union Gas Company LEASE Sanchez WELL NO. 1-A
UNIT H SEC. 16 TWP. 28N RGE. 9W PAY ZONE: From 2573 To 2645
CASING: OD 5-1/2 WT. 15.5# SET AT 2578 TUBING: OD 1 WT. 1.7# T.Perf.
PRODUCED THROUGH: CASING X TUBING GAS GRAVITY: MEASURED ESTIMATED .660
DATE OF FLOW TEST: From 11-23-55 To 11-30-55 *Date S.I.P. MEASURED 10-25-55
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 (_____) $\sqrt{x}$ 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. _____ 222 psig + 12 = _____ 234 psia (g)
Square root chart average reading (_____) $\sqrt{x}$ sp. const. _____ = _____ psia (g)
Corrected seven day avge. meter press. (pf) (g) + (e) = _____ 234 psia (h)
 $P_t = (h) + (f)$ _____ 234 psia (i)
Wellhead casing shut-in pressure (Dwt) _____ 739 psig + 12 = _____ 751 psia (j)
Wellhead tubing shut-in pressure (Dwt) _____ 739 psig + 12 = _____ 751 psia (k)
 $P_c = (j)$ or (k) whichever well flowed through. _____ 751 psia (l)
Flowing Temp. (Meter Run). _____ 60 °F + 460 _____ 520 °Abs (m)
 $P_d = \frac{1}{2} P_c = \frac{1}{2} (l)$ _____ 375 psia (n)

FLOW RATE CALCULATION

$$Q = \frac{334}{(\text{integrated})} \times \left(\frac{\sqrt{(c)}}{\sqrt{(d)}} \right) = \text{None} = 334 \text{ MCF/da.}$$

DELIVERABILITY CALCULATION

$$D = Q \frac{334}{\left[\frac{P_c^2 - P_d^2}{P_c^2 - P_w^2} \right]^{0.85} \cdot \frac{.85472}{.85472}} = 285 \text{ MCF/da.}$$

SUMMARY

$P_c =$ _____ 751 psia Company Southern Union Gas Company
 $Q =$ _____ 334 Mcf/day By J. S. Miennink
 $P_w =$ _____ 234 psia Title Jr. Petroleum Engineer
 $P_d =$ _____ 375 psia Witnessed by _____
 $D =$ _____ 285 Mcf/day 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

Well connected November 8, 1955