

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 FORMATION Pictured Cliffs COUNTY San Juan
PURCHASING PIPELINE Southern Union Gas Company DATE TEST FILED 1/15/57
OPERATOR Southern Union Gas Co. LEASE Albright WELL NO. 2
UNIT D SEC. 22 TWP. 29N RGE. 10W PAY ZONE: From 2013 To 2048
CASING: OD 5 1/2" WT. 15.5 SET AT 2080 TUBING: OD 1" WT. 1.7 T.Perf. _____
PRODUCED THROUGH: CASING X TUBING _____ GAS GRAVITY: MEASURED .667 ESTIMATED _____
DATE OF FLOW TEST: From 12/23/56 To 12/31/56 *Date S.I.P. MEASURED January 8, 1957
METER RUN SIZE 4 inch ORIFICE SIZE 1 TYPE CHART Normal TYPE TAPS Flange

OBSERVED DATA

Flowing casing pressure (Dwt) 215 psig + 12 = 227 psia (a)
Flowing tubing pressure (Dwt) 215 psig + 12 = 227 psia (b)
Flowing meter pressure (Dwt) 215 psig + 12 = 227 psia (c)
Flowing meter pressure (meter reading when Dwt. measurement taken:
Normal chart reading. 215 psig + 12 = 227 psia (d)
Square root chart reading () ²x spring constant = - psia (d)
Meter error (c) - (d) or (d) - (c). ± = 0 psi (e)
Friction loss, Flowing column to meter:
(b) - (c) Flow through tubing: (a) - (c) Flow through casing... = 0 psi (f)
Seven day average static meter pressure (from meter chart):
Normal chart average reading. 183 psig + 12 = 195 psia (g)
Square root chart average reading () ²x sp. const. = - psia (g)
Corrected seven day avge. meter press. (Pf) (g) + (e) = 195 psia (h)
P_t = (h) + (f) = 195 psia (i)
Wellhead casing shut-in pressure (Dwt) 607 psig + 12 = 619 psia (j)
Wellhead tubing shut-in pressure (Dwt) 607 psig + 12 = 619 psia (k)
P_c = (j) or (k) whichever well flowed through. = 619 psia (l)
Flowing Temp. (Meter Run). 64 °F + 460 = 524 °Abs (m)
P_d = $\frac{1}{2}$ P_c = $\frac{1}{2}$ (l) = 309 psia (n)

FLOW RATE CALCULATION

$$Q = \frac{214}{(\text{integrated})} \times \left(\frac{\sqrt{(c)}}{\sqrt{(d)}} = \frac{15.07}{15.07} = 1.00 \right)^* = 214 \text{ MCF/da.}$$

DELIVERABILITY CALCULATION

$$D = Q \frac{214}{\left[\frac{P_c^2 - P_d^2}{P_c^2 - P_w^2} = \frac{287,680}{345,136} \right]^{0.85}} = \frac{214}{.85658} = 183 \text{ MCF/da.}$$

SUMMARY

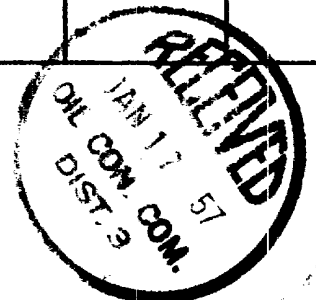
P_c = 619 psia Company Southern Union Gas Company
Q = 214 Mcf/day By L.S. Munnink
P_w = 195 psia Title Exploration Engineer
P_d = 309 psia Witnessed by _____
D = 183 Mcf/day Company _____

* 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 R ²	(1-e ^{-S})	P _t ² (Column 1)	P _t ² + R ²	P _w

Friction Loss Negligible



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