

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 Astec 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. 3

UNIT J SEC. 22 TWP. 27N RGE. 10W PAY ZONE: From 1950 To 2000

CASING: OD 5 1/4 WT. 15.5 SET AT 2014 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 3/4 TYPE CHART Normal TYPE TAPS Flange

OBSERVED DATA

Flowing casing pressure (Dwt) 223 psig + 12 = 235 psia (a)
Flowing tubing pressure (Dwt) 273 psig + 12 = 285 psia (b)
Flowing meter pressure (Dwt) 222 psig + 12 = 234 psia (c)
Flowing meter pressure (meter reading when Dwt. measurement taken:
Normal chart reading. 210 psig + 12 = 222 psia (d)
Square root chart reading () ²x spring constant = - psia (d)
Meter error (c) - (d) or (d) - (c).1 = 1/12 psi (e)
Friction loss, Flowing column to meter:
(b) - (c) Flow through tubing; (a) - (c) Flow through casing... = 1 psi (f)
Seven day average static meter pressure (from meter chart):
Normal chart average reading. 196 psig + 12 = 208 psia (g)
Square root chart average reading () ²x sp. const. = - psia (g)
Corrected seven day avge. meter press. (Pf) (g) + (e) = 220 psia (h)
P_t = (h) + (f) = 221 psia (i)
Wellhead casing shut-in pressure (Dwt) 558 psig + 12 = 570 psia (j)
Wellhead tubing shut-in pressure (Dwt) 558 psig + 12 = 570 psia (k)
P_c = (j) or (k) whichever well flowed through. = 570 psia (l)
Flowing Temp. (Meter Run). 80 °F + 460 = 540 °Abs (m)
P_d = $\frac{1}{2}$ P_c = $\frac{1}{2}$ (l) = 285 psia (n)

FLOW RATE CALCULATION

$$Q = \frac{170}{(\text{integrated})} \times \left(\frac{V(c)}{V(d)} = \frac{15.30}{14.90} = 1.0268 \right)^* = 175 \text{ MCF/da.}$$

DELIVERABILITY CALCULATION

$$D = Q \frac{175}{\left[\frac{P_c^2 - P_d^2}{P_c^2 - P_w^2} \right]^{n 0.85}} = \frac{243,675}{276,059}^{0.85} = 157 \text{ MCF/da.}$$

SUMMARY

P _c =	<u>570</u>	psia	Company	<u>Southern Union Gas Company</u>
Q =	<u>175</u>	Mcf/day	By	<u>J. S. Mennink</u>
P _w =	<u>221</u>	psia	Title	<u>Exploration Engineer</u>
P _d =	<u>285</u>	psia	Witnessed by	<u></u>
D =	<u>157</u>	Mcf/day	Company	<u></u>

* 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



1912

OIL CONSERVATION COMMISSION

AZTEC DISTRICT OFFICE

No. Copies Received 3

DISTRIBUTION

	No.	
Operator		
Sanitation	1	
Plumbing		
Electrician		
Toolbox	1	
Inspector		
File	1	✓

