

INITIAL PRODUCTION TEST

Form C-122-A
Revised April 20, 1955

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 Co. LEASE Zachry WELL NO. 5
UNIT P SEC. 11 TWP. 28N RGE. 10W PAY NONE: From 1853 To 1933
CASING: OD 5-1/2" WT. 15.5# SET AT 1359 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 4-29-55
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 () ²x spring constant = -- psia (d)
Meter error (c) - (d) or (d) - (c) ± = -- 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. 207 psig + 12 = 219 psia (g)
Square root chart average reading () ²x sp. const. = -- psia (g)
Corrected seven day avge. meter press. (pf) (g) + (e) = 219 psia (h)
P_t = (h) + (f) = 219 psia (i)
Wellhead casing shut-in pressure (Dwt) 664 psig + 12 = 676 psia (j)
Wellhead tubing shut-in pressure (Dwt) 664 psig + 12 = 676 psia (k)
P_c = (j) or (k) whichever well flowed through. = 676 psia (l)
Flowing Temp. (Meter Run) 60 °F + 460 = 520 °Abs (m)
P_d = $\frac{1}{2} P_c = \frac{1}{2} (l)$ = 338 psia (n)

FLOW RATE CALCULATION

$$Q = \frac{281}{(\text{integrated})} \times \left(\frac{\sqrt{(c)}}{\sqrt{(d)}} = \text{None} \right)^* = 281 \text{ MCF/da.}$$

DELIVERABILITY CALCULATION

$$D = Q \frac{281}{\left[\frac{P_c^2 - P_d^2}{P_c^2 - P_w^2} \right]^{n0.35}} = \frac{342,732}{409,015} \frac{.86044}{.86044} = 242 \text{ MCF/da.}$$

SUMMARY

P_c = 676 psia Company SOUTHERN UNION GAS COMPANY
Q = 281 Mcf/day By L. S. Muennink
P_w = 219 psia Title Jr. Petroleum Engineer
P_d = 338 psia Witnessed by
D = 242 Mcf/day Company

* This is date of completion test.

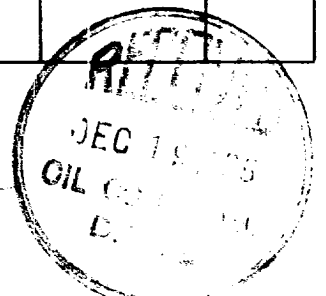
* Meter error correction factor

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

Well connected November 1, 1955



OIL CONSERVATION COMMISSION	
AZTEC DISTRICT OFFICE	
Case No.	3
Date	10/1/1917
By	
For	
Amount	1
Balance	1
Total	1 ✓