

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 South Blanco FORMATION Pictured Cliffs COUNTY Rio Arriba
PURCHASING PIPELINE Southern Union Gas Company DATE TEST FILED March 2, 1960

OPERATOR Astec Oil & Gas Company LEASE Arizona-Jicarilla WELL NO. 4
UNIT D SEC. 36 TWP. 25 RGE. 4 PAY ZONE: From 3614 To 3665
CASING: OD 4 1/2 WT. 9.5 SET AT 3753 TUBING: OD 3 WT. 4.7 T. Perf. 3660
PRODUCED THROUGH: CASING TUBING XX GAS GRAVITY: MEASURED 0.695 ESTIMATED
DATE OF FLOW TEST: From 2/8 To 2/16/60 *Date S.I.P. MEASURED 10/20/59
METER RUN SIZE 4 ORIFICE SIZE 1.500 TYPE CHART S N TYPE TAPS

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. psig + 12 = _____ psia (g)
Square root chart average reading (_____) ² x sp. const. 10 = 533 psia (g)
Corrected seven day avge. meter press. (Pf) (g) + (e) = 533 psia (h)
 $P_t = (h) + (f)$ = 533 psia (i)
Wellhead casing shut-in pressure (Dwt) 500 psig + 12 = 512 psia (j)
Wellhead tubing shut-in pressure (Dwt) 400 psig + 12 = 412 psia (k)
 $P_c = (j) \text{ or } (k) \text{ whichever well flowed through.}$ = 406 psia (l)
Flowing Temp. (Meter Run). 91 °F + 460 = 551 °Abs (m)
 $P_d = \frac{1}{2} P_c = \frac{1}{2} (l)$ = 453 psia (n)

FLOW RATE CALCULATION

$$Q = \frac{365}{(\text{Integrated})} \times \left(\frac{V(c)}{V(d)} \right) = \frac{1.000}{1.000} = 365 \text{ MCF/d}$$

DELIVERABILITY CALCULATION

$$D = Q \frac{365}{\left[\frac{P_c^2 - P_d^2}{P_c^2 - P_w^2} \right]^{0.85}} = \frac{615627}{534780} \times 1.1269 = 411 \text{ MCF/da.}$$

SUMMARY

$P_c =$ <u>906</u> psia	Company <u>Astec Oil & Gas Company</u>
$Q =$ <u>365</u> Mcf/day	By <u>ORIGINAL SIGNED BY L. M. STEVENS</u>
$P_w =$ <u>535</u> psia	Title <u>L. M. STEVENS, Engineer</u>
$P_d =$ <u>453</u> psia	Witnessed by _____
$D =$ <u>411</u> Mcf/day	Company _____

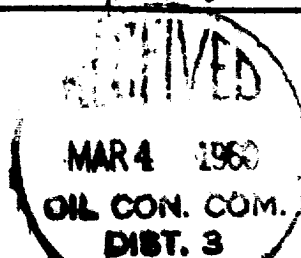
* This is date of completion test.

* 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
2521	0.167	11.779	1.967		284.089	286.056	535

** Well loaded up - SIP is average of offset wells.



Form 10-10-1

Revised April 1964

FOR USE IN THE FIELD BY THE OPERATOR OF A PUMP-OUT STATION

(To be used for recording data on the operation of a pump-out station, except where otherwise indicated.)

UNIT NO. _____

PLANTING DATE _____

UNIT NO.

UNIT NO. _____

UNIT NO. _____

UNIT NO. _____

UNIT NO. _____

UNIT NO. _____

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UNIT NO. _____

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