

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 Blanco FORMATION Mesaverde COUNTY San Juan

PURCHASING PIPELINE Southern Union Gathering System DATE TEST FILED July 26, 1960

OPERATOR Astec Oil & Gas Company LEASE Richardson WELL NO. 3

UNIT C SEC. 22 TWP. 31 RGE. 12 PAY ZONE: From 5020 To 5336

CASING: OD 7 WT. 20 SET AT 4999 TUBING: OD 2 WT. 4.7 T.Perf. 5290

PRODUCED THROUGH: CASING _____ TUBING X GAS GRAVITY: MEASURED 0.700 ESTIMATED _____

DATE OF FLOW TEST: From 5/31 To 6/7 *Date S.I.P. MEASURED 6/14/60

METER RUN SIZE 4 ORIFICE SIZE 0.500 TYPE CHART SR TYPE TAPS Flg.

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

FLOW RATE CALCULATION

$$Q = \frac{2.3}{(\text{integrated})} \times \left(\frac{\sqrt{(c)}}{\sqrt{(d)}} \right)^{0.5} = \frac{(0.9981)^{0.5}}{0.9990} = 53 \text{ MCF/da.}$$

DELIVERABILITY CALCULATION

$$D = Q \frac{53}{\left[\frac{P_c^2 - P_d^2}{P_c^2 - P_w^2} \right]^{0.75}} = \frac{53}{\left[\frac{711^2 - 396^2}{711^2 - 532^2} \right]^{0.75}} = 79 \text{ MCF/da.}$$

SUMMARY

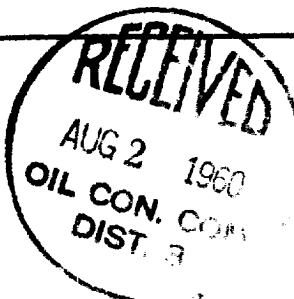
P _c =	<u>711</u>	psia	Company	<u>Astec Oil & Gas Company</u>
Q =	<u>53</u>	Mcf/day	By	<u>ORIGINAL SIGNED BY L. M. STEVENS</u>
P _w =	<u>532</u>	psia	Title	<u>L. M. Stevens, Dist. Mgr.</u>
P _d =	<u>396</u>	psia	Witnessed by	
D =	<u>79</u>	Mcf/day	Company	

* 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
Friction Loss Is Negligible							



Form 0-100-1
Revised April 1960

UNIT RECORDING AND INFORMATION COMMISSION
OIL FIELD UNIT RECORD - NEW LEAN HILLS

Use as a record for production, estimated output, water usage, and all other data except those items shown below.

UNIT NO. _____
WELL NO. _____
DATE FIRST FILLED _____
OPERATOR _____
UNIT _____
CASSING: OD _____ ID _____
PRODUCED THROUGH CASSING _____
DATE OF FIRST TEST _____
METER RUN BY _____

TESTING DATA

(a) _____
(b) _____
(c) _____
(d) _____
(e) _____
(f) _____
(g) _____
(h) _____
(i) _____
(j) _____
(k) _____
(l) _____
(m) _____
(n) _____

UNIT DATA CALCULATION

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