

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 P.C. FORMATION Pictured Cliffs COUNTY Rio Arriba
PURCHASING PIPELINE Southern Union DATE TEST FILED May 20, 1955
OPERATOR Robert E. Mead LEASE Fed-Scott WELL NO. 1-D
UNIT J SEC. 14 TWP. 26N RGE. 7W FAI ZONE: From _____ To _____
CASING: OD _____ WT. _____ SET AT _____ TUBING: OD _____ WT. _____ T.Perf. _____
PRODUCED THROUGH: CASING X TUBING _____ GAS GRAVITY: MEASURED _____ ESTIMATED .650
DATE OF FLOW TEST: From 4/23/55 To 4/30/55 *Date S.I.P. MEASURED 5/7/55
METER RUN SIZE 4" ORIFICE SIZE .375 TYPE CHART Normal TYPE TAPS Flange

OBSERVED DATA

Flowing casing pressure (Dwt) _____ 377 psig + 12 = _____ 389 psia (a)
Flowing tubing pressure (Dwt) _____ 371 psig + 12 = _____ 383 psia (b)
Flowing meter pressure (Dwt) _____ 375 psig + 12 = _____ 387 psia (c)
Flowing meter pressure (meter reading when Dwt. measurement taken:
Normal chart reading, 375 psig + 12 = _____ 387 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... = _____ 2 psi (f)
Seven day average static meter pressure (from meter chart):
Normal chart average reading. 380 psig + 12 = _____ 392 psia (g)
Square root chart average reading (_____) ²x sp. const. _____ = _____ psia (g)
Corrected seven day avge. meter press. (P_f) (g) + (e) _____ = _____ 392 psia (h)
P_t = (h) + (f) _____ = _____ 394 psia (i)
Wellhead casing shut-in pressure (Dwt) _____ 643 psig + 12 = _____ 655 psia (j)
Wellhead tubing shut-in pressure (Dwt) _____ 642 psig + 12 = _____ 654 psia (k)
P_c = (j) or (k) whichever well flowed through. _____ = _____ 655 psia (l)
Flowing Temp. (Meter Run). 60 °F + 460 = _____ 520 °Abs (m)
P_d = 1/2 P_c = 1/2 (l) _____ = _____ 328 psia (n)

FLOW RATE CALCULATION

$$Q = \frac{96}{(\text{integrated})} \times \left(\frac{\sqrt{(c)}}{\sqrt{(d)}} = \frac{1}{1} \right)^* = 96 \text{ MCF/da.}$$

DELIVERABILITY CALCULATION

$$D = Q \frac{96}{\left[\frac{P_c^2 - P_d^2}{P_c^2 - P_w^2} \right]^n} = \frac{321,441}{273,789} \times 1.1427 = 110 \text{ MCF/da.}$$

SUMMARY

P_c = 655 psia Company Geoelectric, Inc
Q = 96 Mcf/day By W. J. McConathy
P_w = 394 psia Title Agent
P_d = 328 psia Witnessed by _____
D = 110 Mcf/day Company _____

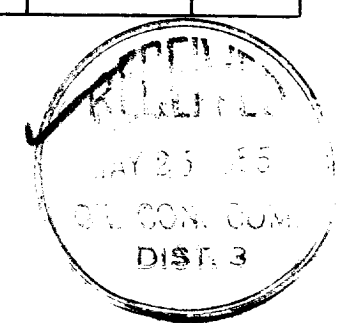
* This is date of completion test.
* Meter error correction factor

REMARKS OR FRICTION CALCULATIONS

GL	(1-e ^{-S})	(F _c Q) ²	(FcQ) ² R ²	(1-e ^{-S})	P _t ² (Column i)	P _t ² + R ²	P _w

FRICTION LOSS NEGLIGIBLE

OK



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