

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 East Dakota-Pictured Cliffs FORMATION Pictured Cliffs COUNTY San Juan
PURCHASING PIPELINE El Paso Natural Gas Company DATE TEST FILED April 26-1956

OPERATOR Stanford Oil & Gas Company LEASE Calleguas Canyon Unit WELL NO. 72
UNIT 0 SEC. 36 TWP. 20N RGE. 13E PAY ZONE: From 1440 To 1490
CASING: OD 5-1/2" WT. 135 SET AT 1467 TUBING: OD 2-1/4" WT. 2.4 T.Perf. 1440
PRODUCED THROUGH: CASING 1 TUBING 1 GAS GRAVITY: MEASURED 0.440 ESTIMATED 0.440
DATE OF FLOW TEST: From 4-15-56 To 4-15-56 *Date S.I.P. MEASURED 4-15-56
METER RUN SIZE 4" ORIFICE SIZE 1.3 TYPE CHART 30-11 TYPE TAPS 1

OBSERVED DATA

Flowing casing pressure (Dwt) 243 psig + 12 = 255 psia (a)
Flowing tubing pressure (Dwt) 243 psig + 12 = 255 psia (b)
Flowing meter pressure (Dwt) 243 psig + 12 = 255 psia (c)
Flowing meter pressure (meter reading when Dwt. measurement taken:
Normal chart reading. psig + 12 = 255 psia (d)
Square root chart reading (7.2) ² x spring constant = 255 psia (d)
Meter error (c) - (d) or (d) - (c). ± = -5 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. psig + 12 = 255 psia (g)
Square root chart average reading (6.95) ² x sp. const. 0.9 = 255 psia (g)
Corrected seven day ave. meter press. (P_f) (g) + (e) = 250 psia (h)
P_t = (h) + (f) = 251 psia (i)
Wellhead casing shut-in pressure (Dwt) 244 psig + 12 = 256 psia (j)
Wellhead tubing shut-in pressure (Dwt) 244 psig + 12 = 256 psia (k)
P_c = (j) or (k) whichever well flowed through. = 256 psia (l)
Flowing Temp. (Meter Run). 58 °F + 460 = 518 °Abs (m)
P_d = $\frac{1}{2}$ P_c = $\frac{1}{2}$ (l) = 128 psia (n)

FLOW RATE CALCULATION

Q = $\frac{489}{(\text{integrated})} \times \left(\frac{\sqrt{(c)}}{\sqrt{(d)}} \right) = \frac{15.937}{14.073} = \frac{0.9903}{1} = \underline{489} \text{ MCF/da.}$

DELIVERABILITY CALCULATION

D = Q 489 $\left[\frac{P_c^2 - P_d^2}{P_c^2 - P_w^2} \right]^n = \frac{95,052}{70,567}^{1.208} = \underline{623} \text{ MCF/da.}$

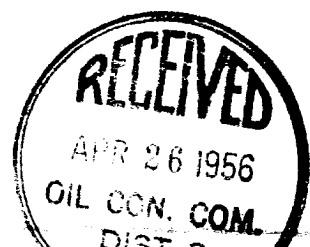
SUMMARY

P_c = 256 psia
Q = 489 Mcf/day
P_w = 256 psia
P_d = 128 psia
D = 489 Mcf/day
Company Stanford Oil & Gas Company
By J. A. Clark
Title Field Engineer
Witnessed by [Signature]
Company [Signature]

* 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 i)	P _t ² + R ²	P _w
	Friction loss is negligible.						



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