

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 - Mesaverde FORMATION Mesaverde COUNTY San Juan
PURCHASING PIPELINE Southern Union Gathering Co. DATE TEST FILED January 24, 1956

OPERATOR Dalhart-Taylor Oil Corp. LEASE Fluorance WELL NO. 48
UNIT A SEC. 23 TWP. 30N RGE. 8W PAY ZONE: From 4852 To 5300
CASING: OD 5.500 WT. 35.50 SET AT 1099 TUBING: OD 2.375 WT. 4.70 T.Perf. 4952
PRODUCED THROUGH: CASING TUBING GAS GRAVITY: MEASURED 0.675 ESTIMATED
DATE OF FLOW TEST: From 12/31/55 To 1/10/56 *Date S.I.P. MEASURED 1/15/56
METER RUN SIZE 1.000 ORIFICE SIZE 1.900 TYPE CHART Normal TYPE TAPS Flange

OBSERVED DATA

Flowing casing pressure (Dwt) 621 psig + 12 = 623 psia (a)
Flowing tubing pressure (Dwt) 582 psig + 12 = 572 psia (b)
Flowing meter pressure (Dwt) 580 psig + 12 = 572 psia (c)
Flowing meter pressure (meter reading when Dwt. measurement taken:
Normal chart reading. 580 psig + 12 = 572 psia (d)
Square root chart reading () ² x spring constant = 0 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. 559 psig + 12 = 572 psia (g)
Square root chart average reading () ² x sp. const. = 0 psia (g)
Corrected seven day avge. meter press. (Pf) (g) + (e) = 572 psia (h)
P_t = (h) + (f) = 572 psia (i)
Wellhead casing shut-in pressure (Dwt) 968 psig + 12 = 980 psia (j)
Wellhead tubing shut-in pressure (Dwt) 985 psig + 12 = 977 psia (k)
P_c = (j) or (k) whichever well flowed through. = 977 psia (l)
Flowing Temp. (Meter Run). 60 °F + 460 = 500 °Abs (m)
P_d = $\frac{1}{2}$ P_c = $\frac{1}{2}$ (l) = 488.5 psia (n)

FLOW RATE CALCULATION

$$Q = \frac{1.159}{(\text{integrated})} \times \left(\frac{\sqrt{(c)}}{\sqrt{(d)}} = \frac{23.917}{23.917} = \frac{1.000}{1.000} \right) = 1.159 \text{ MCF/da.}$$

DELIVERABILITY CALCULATION

$$D = Q \frac{1.159}{\left[\frac{P_c^2 - P_d^2}{P_c^2 - P_w^2} = \frac{715.897}{600.552} \right]^n} = 1.322 \text{ MCF/da.}$$

SUMMARY

P_c = 977 psia Company Dalhart-Taylor Oil Corporation
Q = 1.159 Mcf/day By J. E. Kruger
P_w = 985 psia Title Dist. Engineer
P_d = 488.5 psia Witnessed by
D = 1.322 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 1)	P _t ² + R ²	P _w
1148	0.216	118.743	25.648		308.329	353.977	995



