

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 Company DATE TEST FILED 2/6/57

OPERATOR Delhi-Taylor Oil Corp. LEASE Fred Lamm WELL NO. 2
UNIT A SEC. 25 TWP. 30N RGE. 9W PAY ZONE: From 4730 To 4510
CASING: OD 7 5/8 WT. 26.40 SET AT 0.3509 TUBING: OD 2.375 WT. 4.70 T.Perf. 4700
PRODUCED THROUGH: CASING TUBING X GAS GRAVITY: MEASURED 0.698 ESTIMATED
DATE OF FLOW TEST: From 1/18/57 To 1/24/57 *Date S.I.P. MEASURED 1/31/57
METER RUN SIZE 1.026 ORIFICE SIZE 1.500 TYPE CHART Normal TYPE TAPS Flange

OBSERVED DATA

Flowing casing pressure (Dwt) 638 psig + 12 = 650 psia (a)
Flowing tubing pressure (Dwt) 581 psig + 12 = 593 psia (b)
Flowing meter pressure (Dwt) 579 psig + 12 = 591 psia (c)
Flowing meter pressure (meter reading when Dwt. measurement taken:
Normal chart reading. 580 psig + 12 = 592 psia (d)
Square root chart reading () ²x spring constant = psia (d)
Meter error (c) - (d) or (d) - (c). ± = -1 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. 587 psig + 12 = 599 psia (g)
Square root chart average reading () ²x sp. const. = psia (g)
Corrected seven day avge. meter press. (pf) (g) + (e) = 598 psia (h)
P_t = (h) + (f) = 600 psia (i)
Wellhead casing shut-in pressure (Dwt) 873 psig + 12 = 885 psia (j)
Wellhead tubing shut-in pressure (Dwt) 870 psig + 12 = 882 psia (k)
P_c = (j) or (k) whichever well flowed through. = 882 psia (l)
Flowing Temp. (Meter Run). 75 °F + 460 = 535 °Abs (m)
P_d = $\frac{1}{2} P_c = \frac{1}{2} (l)$ = 441 psia (n)

• 2 1/2" Line 2509'-4.821

FLOW RATE CALCULATION

$$Q = \frac{1.696}{(\text{integrated})} \times \left(\frac{\sqrt{(c)}}{\sqrt{(d)}} = \frac{24.310}{24.331} = \frac{0.9991}{1.696} \right)^* = 1.696 \text{ MCF/da.}$$

DELIVERABILITY CALCULATION

$$D = Q \frac{1.696}{\left[\frac{P_c^2 - P_d^2}{P_c^2 - P_w^2} = \frac{583.443}{345.415} \right]^n \frac{1.4204}{2.406}} = 2.406 \text{ MCF/da.}$$

SUMMARY

P _c = <u>882</u> psia	Company <u>Delhi-Taylor Oil Corporation</u>
Q = <u>1.696</u> Mcf/day	By <u>J. E. Heger</u>
P _w = <u>642</u> psia	Title <u>Dist. Engineer</u>
P _d = <u>441</u> psia	Witnessed by <u>C. Heger</u>
D = <u>2.406</u> Mcf/day	Company <u> </u>

* 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
<u>31.87</u>	<u>0.307</u>	<u>253.669</u>	<u>52.509</u>		<u>360.000</u>	<u>412.509</u>	<u>642</u>



OK