

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 March 25, 1957
OPERATOR Delhi-Taylor Oil Corp LEASE Brickard WELL NO. 2
UNIT B SEC. 1 TWP. 30N RGE. 9W PAY ZONE: From 4551 To 4727
CASING: OD 7.000 WT. 8 SET AT 4551 TUBING: OD 2 1/2 WT. 6.50 T.Perf. 4628
PRODUCED THROUGH: CASING TUBING 1 GAS GRAVITY: MEASURED 0.670 ESTIMATED
DATE OF FLOW TEST: From 2/20/57 To 3/10/57 *Date S.I.P. MEASURED 2/25/57
METER RUN SIZE 4.000 ORIFICE SIZE 2.500 TYPE CHART Normal TYPE TAPS Flange

OBSERVED DATA

Flowing casing pressure (Dwt) 0 psig + 12 = 0 psia (a)
Flowing tubing pressure (Dwt) 67 psig + 12 = 67 psia (b)
Flowing meter pressure (Dwt) 69 psig + 12 = 61 psia (c)
Flowing meter pressure (meter reading when Dwt. measurement taken:
Normal chart reading. 615 psig + 12 = 627 psia (d)
Square root chart reading () ² x spring constant = psia (d)
Meter error (c) - (d) or (d) - (c). ± = 16 psi (e)
Friction loss, Flowing column to meter:
(b) - (c) Flow through tubing: (a) - (c) Flow through casing... = 10 psi (f)
Seven day average static meter pressure (from meter chart):
Normal chart average reading. 595 psig + 12 = 607 psia (g)
Square root chart average reading () ² x sp. const. = psia (g)
Corrected seven day ave. meter press. (P_f) (g) + (e) = 611 psia (h)
P_t = (h) + (f) = 629 psia (i)
Wellhead casing shut-in pressure (Dwt) 901 psig + 12 = 913 psia (j)
Wellhead tubing shut-in pressure (Dwt) psig + 12 = psia (k)
P_c = (j) or (k) whichever well flowed through. = 913 psia (l)
Flowing Temp. (Meter Run). 82 °F + 460 = 542 °Abs (m)
P_d = $\frac{1}{2}$ P_c = $\frac{1}{2}$ (l) = 456.5 psia (n)

FLOW RATE CALCULATION

$$Q = \frac{25.000 \text{ } 515^{\circ} \text{ } 20.000 \text{ } 454.1^{\circ}}{(\text{integrated})} \times \left(\frac{\sqrt{(c)}}{\sqrt{(d)}} = \frac{25.120}{25.640} = \frac{1.002}{1} \right)^* = 4.756 \text{ MCF/da.}$$

DELIVERABILITY CALCULATION

$$D = Q \frac{4.756}{\left[\frac{P_c^2 - P_d^2}{P_c^2 - P_w^2} = \frac{625.177}{297.833} \right]^n} = \frac{2.7439}{2.00000} = 8.24\% \text{ MCF/da.}$$

SUMMARY

P_c = 913 psia
Q = 4.756 Mcf/day
P_w = 732 psia
P_d = 456.5 psia
D = 8.24% Mcf/day

Company Delhi-Taylor Oil Corporation
By J. E. Huger
Title Dist. Engineer
Witnessed by
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 (1-e ^{-s})	P _t ² (Column i)	P _t ² + R ²	w
			R ²			
3090	0.802	696.709	140.095	395.411	535.736	732

This is a Deliverability Test Following Work-Over.

