

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 March 1, 1956
OPERATOR Delhi-Taylor Oil Corp. LEASE Florencia WELL NO. 31
UNIT A SEC. 12 TWP. 29N RGE. 0W PAY ZONE: From 4741 To 5295
CASING: OD 7 WT. * SET AT 4720 TUBING: OD 2.375 WT. 4.70 T.Perf. 1.806
PRODUCED THROUGH: CASING TUBING I GAS GRAVITY: MEASURED 0.681 ESTIMATED
DATE OF FLOW TEST: From 2/15/56 To 2/23/56 *Date S.I.P. MEASURED 3/1/56
METER RUN SIZE 1.026 ORIFICE SIZE 1.500 TYPE CHART Normal TYPE TAPS Flange

OBSERVED DATA

Flowing casing pressure (Dwt) 674 psig + 12 = 686 psia (a)
Flowing tubing pressure (Dwt) 591 psig + 12 = 603 psia (b)
Flowing meter pressure (Dwt) 581 psig + 12 = 593 psia (c)
Flowing meter pressure (meter reading when Dwt. measurement taken:
Normal chart reading. 590 psig + 12 = 602 psia (d)
Square root chart reading () $2 \times$ spring constant = psia (d)
Meter error (c) - (d) or (d) - (c). $\pm$ = -9 psi (e)
Friction loss, Flowing column to meter:
(b) - (c) Flow through tubing: (a) - (c) Flow through casing... = 3 psi (f)
Seven day average static meter pressure (from meter chart):
Normal chart average reading. 604 psig + 12 = 616 psia (g)
Square root chart average reading () $2 \times$ sp. const. = psia (g)
Corrected seven day ave. meter press. (pf) (g) + (e) = 607 psia (h)
 $P_t = (h) + (f)$ = 610 psia (i)
Wellhead casing shut-in pressure (Dwt) 900 psig + 12 = 912 psia (j)
Wellhead tubing shut-in pressure (Dwt) 900 psig + 12 = 912 psia (k)
 $P_c = (j)$ or (k) whichever well flowed through. = 912 psia (l)
Flowing Temp. (Meter Run). 60 °F + 460 = 520 °Abs (m)
 $P_d = \frac{1}{2} P_c = \frac{1}{2} (l)$ = 456 psia (n)

* 23.00 268
20.00 1452
 $Q = \frac{1.126}{(\text{integrated})} \times \left(\frac{\sqrt{(c)}}{\sqrt{(d)}} \right) = \frac{24.352}{24.536} = 0.99250 = 1.115 \text{ MCF/da.}$

DELIVERABILITY CALCULATION

$D = Q \frac{1.115}{\left[\frac{P_c^2 - P_d^2}{P_c^2 - P_w^2} \right]^n} = 1.3403 = 1.897 \text{ MCF/da.}$

SUMMARY

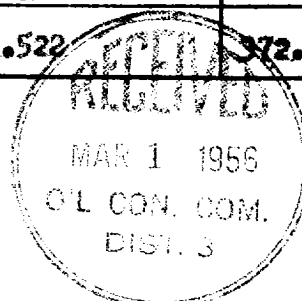
$P_c = 912$ psia Company Delhi-Taylor Oil Corporation
 $Q = 1.115$ Mcf/day By J. E. Kreger
 $P_w = 640$ psia Title Dist. Engineer
 $P_d = 456$ psia Witnessed by
 $D = 1.897$ Mcf/day Company

* This is date of completion test.

* Meter error correction factor

REMARKS OR FRICTION CALCULATIONS

GL	$(1-e^{-S})$	$(F_c Q)^2$	$(F_c Q)^2 R^2$	$(1-e^{-S})$	P_t^2 (Column 1)	$P_t^2 + R^2$	P_w
3273	0.212	176,992	37.522		372,100	409,622	640



OIL CONSERVATION COMMISSION			
DISTRICT OFFICE			
No. _____		3	
Date _____			
County _____			
State _____			
City _____			
State Land Office _____		1	
U. S. _____		1	
Transfer _____		1	
File _____			