

Initial Deliverability
Test

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 South Blanco Formation Pictured Cliffs County Rio Arriba
Purchasing Pipeline Pacific Northwest Pipeline Corporation Date Test Filed May 13, 1958

Operator Northwest Production Corp. Lease "C" Well No. 14-30
Unit P Sec. 30 Twp. 26N Rge. 4W Pay Zone: From 3244 To 3278
Casing: OD 5 WT. 11.5 Set At 3338 Tubing: OD 1 1/2 WT. 2.3 T. Perf. 3253
Produced Through: Casing _____ Tubing X Gas Gravity: Measured 0.661 Estimated _____
Date of Flow Test: From 4-7-58 To 4-16-58 * Date S.I.P. Measured 10-15-57
Meter Run Size 4.030 Orifice Size 1.250 Type Chart L-10 Type Taps P1.

OBSERVED DATA

Flowing casing pressure (Dwt) _____ psig + 12 = _____ psia (a)
Flowing tubing pressure (Dwt) _____ psig + 12 = _____ psia (b)
Flowing meter pressure (Dwt) _____ psig + 12 = _____ psia (c)
Flowing meter pressure (meter reading when Dwt. measurement taken):
Normal chart reading _____ psig + 12 = _____ psia (d)
Square root chart reading (_____) ² x spring constant _____ = _____ psia (d)
Meter error (c) - (d) or (d) - (c) _____ ± _____ = _____ psi (e)
Friction loss, Flowing column to meter:
(b) - (c) Flow through tubing: (a) - (c) Flow through casing _____ = _____ psi (f)
Seven day average static meter pressure (from meter chart):
Normal chart average reading 505 psig + 12 = 517 psia (g)
Square root chart average reading (_____) ² x sp. const. _____ = _____ psia (g)
Corrected seven day avge. meter press. (p_f) (g) + (e) _____ = _____ psia (h)
P_t = (h) + (f) _____ = 517 psia (i)
Wellhead casing shut-in pressure (Dwt) 1054 psig + 12 = 1066 psia (j)
Wellhead tubing shut-in pressure (Dwt) 1055 psig + 12 = 1067 psia (k)
P_c = (j) or (k) whichever well flowed through _____ = 1067 psia (l)
Flowing Temp. (Meter Run) 48 °F + 460 _____ = 508 °Abs (m)
P_d = 1/2 P_c = 1/2 (l) _____ = 534 psia (n)

Q = _____ X $\left(\frac{\text{FLOW RATE CALCULATION}}{\frac{\sqrt{(c)}}{\sqrt{(d)}}} \right) = \text{_____ MCF/day}$
(integrated)

DELIVERABILITY CALCULATION

D = Q 418 $\left[\frac{(P_c^2 - P_d^2)}{(P_c^2 - P_w^2)} \right]^n \frac{.9976}{(0.9971)^N} = \text{_____ MCF/day}$
853,333
855,844

SUMMARY

P_c = 1067 psia
Q = 418 Mcf/day
P_w = 532 psia
P_d = 534 psia
D = 417 Mcf/day

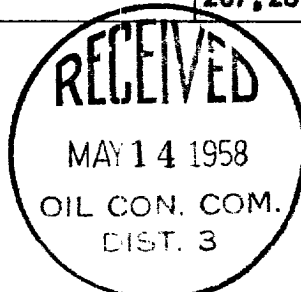
Company Northwest Production Corp.
By M. B. Jones M. B. JONES
Title Asst Mgr, Prod Opr
Witnessed by _____
Company _____

- * 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}) R ²	P _t ² (Column i)	P _t ² + R ²	P _w
2150	0.145	105.905	15,356	267,289	282,645	531.6

F_c = 24.62



OK