

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 San Juan
Purchasing Pipeline El Paso Natural Gas Company Date Test Filed 4-30-58
Operator Northwest Production Corp. Lease San Juan 27-8 Well No. 6-11
Unit 1 Sec. 11 Twp. 27N Rge. 8W Pay Zone: From 2930 To 2972
Casing: OD 5 1/2 WT. 15.5 Set At 3044 Tubing: OD 1 1/2 WT. 2.3 T. Perf. 2933
Produced Through: Casing _____ Tubing X Gas Gravity: Measured 0.645 Estimated _____
Date of Flow Test: From 4-1-58 To 4-8-58 * Date S.I.P. Measured 12-5-57
Meter Run Size 2 Orifice Size 1.000 Type Chart L-10 Type Taps FL

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 _____ psig + 12 = _____ psia (g)
Square root chart average reading (7.70) ² x sp. const. 5.00 = 296 psia (g)
Corrected seven day avge. meter press. (p_f) (g) + (e) _____ = 296 psia (h)
P_t = (h) + (f) _____ = 296 psia (i)
Wellhead casing shut-in pressure (Dwt) 878 psig + 12 = 890 psia (j)
Wellhead tubing shut-in pressure (Dwt) 878 psig + 12 = 890 psia (k)
P_c = (j) or (k) whichever well flowed through _____ = 890 psia (l)
Flowing Temp. (Meter Run) 32 °F + 460 _____ = 512 °Abs (m)
P_d = 1/2 P_c = 1/2 (l) _____ = 445 psia (n)

FLOW RATE CALCULATION

Q = _____ X $\left(\frac{V(c)}{V(d)} \right)^* =$ _____ MCF/da
(Integrated)

DELIVERABILITY CALCULATION

D = Q 232 $\left[\frac{P_c^2 - P_d^2}{P_c^2 - P_w^2} \right]^n =$ 202 MCF/da.
594,075 0.8697
700,177 (0.8485)

SUMMARY

P_c = 890 psia
Q = 232 Mcf/day
P_w = 303 psia
P_d = 445 psia
D = 202 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
1950	0.132	32.627	4.307	87,616	87,923	303.2

F_c = 24.62

