

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 4-9-58
Operator Northwest Production Corp. Lease "C" Well No. 15-31
Unit I Sec. 31 Twp. 26N Rge. 4W Pay Zone: From 3228 To 3275
Casing: OD. 5 WT. 11.5 Set At 3350 Tubing: OD 1 1/2 WT. 2.3 T. Perf. 3225
Produced Through: Casing _____ Tubing X Gas Gravity: Measured .663 Estimated _____
Date of Flow Test: From 3-24-58 To 3-30-58 * Date S.I.P. Measured 11-12-57
Meter Run Size 4.029 Orifice Size 1.00 Type Chart _____ Type Taps _____

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 477 psig + 12 = 489 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) _____ = 489 psia (i)
Wellhead casing shut-in pressure (Dwt) 1059 psig + 12 = 1071 psia (j)
Wellhead tubing shut-in pressure (Dwt) 1059 psig + 12 = 1071 psia (k)
P_c = (j) or (k) whichever well flowed through _____ = 1071 psia (l)
Flowing Temp. (Meter Run) 60 °F + 460 _____ = 520 °Abs (m)
P_d = 1/2 P_c = 1/2 (l) _____ = 536 psia (n)

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

DELIVERABILITY CALCULATION

$$D = Q \times \frac{411}{\left[\frac{P_c^2 - P_d^2}{P_c^2 - P_w^2} \right]^n} = \frac{859,745}{893,175} \times \frac{.9681}{(.9626)^N} = 398 \text{ MCF/day.}$$

SUMMARY

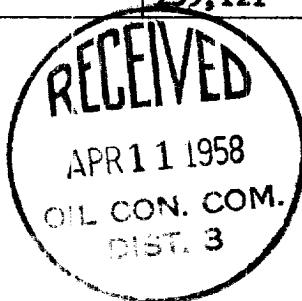
P_c = 1071 psia Company Northwest Production Corp.
Q = 411 Mcf/day By Ray Phillips RAY PHILLIPS
P_w = 504 psia Title Manager, Production Operations
P_d = 536 psia Witnessed by _____
D = 398 Mcf/day Company _____

- * 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 (1-e ^{-S}) R ²	P _t ² (Column i)	P _t ² + R ²	P _w
2138	0.144	102,394	14,745	239,121	253,866	503.8

Fc=24.52



OIL CONSERVATION COMMISS.

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