

MOCC Artec
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Initial Deliverability
Test

Form C-122-A
Revised April 20, 1955

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 Formation Mesa Verde County Rio Arriba
Purchasing Pipeline EL PASO NATURAL GAS COMPANY Date Test Filed 2-14-58
Operator PACIFIC NORTHWEST PIPELINE Lease Rosa Well No. 16-14
Unit N Sec. 14 Twp. 31N Rge. 6W Pay Zone: From 5358' To 5832'
Casing: OD 5" WT. Set At 5860' Tubing: OD 2-3/8" WT. 4.7 T. Perf. 5727'
Produced Through: Casing Tubing x x Gas Gravity: Measured .575 Estimated
Date of Flow Test: From 11-22-57 To 11-30-57 Date S.I.P. Measured 1-17-57
Meter Run Size Orifice Size .750 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 psig + 12 = psia (g)
Square root chart average reading (7.15)² x sp. const. 15.00 = 766 psia (g)
Corrected seven day ave. meter press. (p_f) (g) + (e) = psia (h)
P_t = (h) + (f) = 766 psia (i)
Wellhead casing shut-in pressure (Dwt) 1196 psig + 12 = 1208 psia (j)
Wellhead tubing shut-in pressure (Dwt) 1200 psig + 12 = 1212 psia (k)
P_c = (j) or (k) whichever well flowed through = 1212 psia (l)
Flowing Temp. (Meter Run) 67 °F + 460 = 527 °Abs (m)
P_d = 1/2 P_c = 1/2 (l) = 606 psia (n)

Q = 344 X $\left(\frac{\text{FLOW RATE CALCULATION}}{\sqrt{(c)}} = \frac{\text{FLOW RATE CALCULATION}}{\sqrt{(d)}}} \right)^* = \underline{344} MCF/da
(integrated)$

DELIVERABILITY CALCULATION

D = Q 344 $\left[\frac{P_c^2 - P_d^2}{P_c^2 - P_w^2} \right]^n \frac{(1.249)^{.75}}{1.181} = \underline{406} MCF/da.$

SUMMARY

P_c = 1212 psia
Q = 344 Mcf/day
P_w = 766 psia
P_d = 606 psia
D = 406 Mcf/day

Company PACIFIC NORTHWEST PIPELINE COMP.
By Original signed by G. H. Peppin
Title District Promotion 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}) R ²	P _t ² (Column i)	P _t ² + R ²	P _w



