

3-BBCC Artec
1-Bill Cutler
1-Smith
1-Galloway
2-File

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 PACIFIC NORTHWEST PIPELINE Date Test Filed 5-26-58
Operator PACIFIC NORTHWEST PIPELINE Lease San Juan 29-5 Well No. 12-30
Unit N Sec. 30 Twp. 29N Rge. 7W Pay Zone: From 5194' To 5718'
Casing: OD 5-1/2" WT. 14.0# Set At 3497' Tubing: OD 1-1/4" WT. 2.3# T. Perf. 5725'
Produced Through: Casing Tubing XX Gas Gravity: Measured .670 Estimated
Date of Flow Test: From 4-21-58 To 4-29-58 * Date S.I.P. Measured 6-28-57
Meter Run Size Orifice Size 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 595 psig + 12 = 607 psia (g)
Square root chart average reading ()² x sp. const. = 607 psia (g)
Corrected seven day avge. meter press. (p_f) (g) + (e) = 607 psia (h)
P_t = (h) + (f) = 607 psia (i)
Wellhead casing shut-in pressure (Dwt) 1010 psig + 12 = 1022 psia (j)
Wellhead tubing shut-in pressure (Dwt) 1010 psig + 12 = 1022 psia (k)
P_c = (j) or (k) whichever well flowed through = 1022 psia (l)
Flowing Temp. (Meter Run) 58 °F + 460 = 518 °Abs (m)
P_d = 1/2 P_c = 1/2 (l) = 511 psia (n)

Q = 465 X $\left(\frac{\text{FLOW RATE CALCULATION}}{\sqrt{(c)}} = \frac{\text{ }}{\sqrt{(d)}} = \text{ }} \right)^{.75}$ = 465 MCF/da
(integrated)

DELIVERABILITY CALCULATION
D = Q 465 $\left[\frac{P_c^2 - P_d^2}{P_c^2 - P_w^2} \right]^n = \frac{(1.215)^{.75}}{1.157} = \underline{538}$ MCF/da.

SUMMARY
P_c = 1022 psia
Q = 465 Mcf/day
P_w = 632 psia
P_d = 511 psia
D = 538 Mcf/day
Company PACIFIC NORTHWEST PIPELINE
By Original signed by G. H. Pennin
Title District Production 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
3836	0.238	131,057	31.192	368,449	399,641	632



