

3-MEXC Artec
1-Bill Cutler
2-Galloway
1-Smith
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 EL PASO NATURAL GAS COMPANY Date Test Filed 2-4-59

Operator PACIFIC NORTHWEST PIPELINE Lease San Juan 30-5 Well No. 21-24
Unit K Sec. 24 Twp. 30N Rge. 5W Pay Zone: From 5954' To 6360'
Casing: OD 5 1/2" WT. 15.5# Set At 6487' Tubing: OD 2" WT. 4.7# T. Perf. 6393'
Produced Through: Casing _____ Tubing xx Gas Gravity: Measured .604 Estimated _____
Date of Flow Test: From 1-15-59 To 1-22-59 * Date S.I.P. Measured 9-30-58
Meter Run Size _____ Orifice Size 1.500 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 (6.85) ² x sp. const. 10.00 = 469 psia (g)
Corrected seven day avge. meter press. (p_f) (g) + (e) _____ = 469 psia (h)
P_t = (h) + (f) _____ = 469 psia (i)
Wellhead casing shut-in pressure (Dwt) 1162 psig + 12 = 1174 psia (j)
Wellhead tubing shut-in pressure (Dwt) 1136 psig + 12 = 1148 psia (k)
P_c = (j) or (k) whichever well flowed through _____ = 1174 psia (l)
Flowing Temp. (Meter Run) 60 °F + 460 _____ = 520 °Abs (m)
P_d = 1/2 P_c = 1/2 (l) _____ = 587 psia (n)

Q = 770 (integrated) X $\left(\frac{\text{FLOW RATE CALCULATION}}{\frac{\sqrt{(c)}}{\sqrt{(d)}}} \right) = \underline{770} \text{ MCF/da}$

DELIVERABILITY CALCULATION

D = Q 770 $\left[\frac{(P_c^2 - P_d^2)}{(P_c^2 - P_w^2)} \right]^{.75} = \underline{713} \text{ MCF/da.}$

SUMMARY

P_c = 1174 psia Company PACIFIC NORTHWEST PIPELINE
Q = 770 Mcf/day By Original signed by G. H. Peppin
P_w = 483 psia Title District Promotion Engineer
P_d = 587 psia Witnessed by _____
D = 713 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
3661	0.245	52.418	12.842	219.961	232.803	483

OK

