

3-EMCC Artec
1-Bill Cutler
2-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 San Juan
Purchasing Pipeline EL PASO NATURAL GAS COMPANY Date Test Filed 9-25-58
Operator PACIFIC NORTHWEST Lease New Mexico 32-11 Well No. 2-19
Unit A Sec. 19 Twp. 32N Rge. 11W Pay Zone: From 5016' To 5682'
Casing: OD 5 1/2" WT. 15.5# Set At 5720' Tubing: OD 1-1/4" WT. 2.4# T. Perf. 5676'
Produced Through: Casing Tubing Gas Gravity: Measured .671 Estimated
Date of Flow Test: From 8-15-58 To 8-22-58 * Date S.I.P. Measured 6-30-58
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) 1066 psig + 12 = 1078 psia (j)
Wellhead tubing shut-in pressure (Dwt) 1055 psig + 12 = 1067 psia (k)
P_c = (j) or (k) whichever well flowed through = 1067 psia (l)
Flowing Temp. (Meter Run) 91 °F + 460 = 551 °Abs (m)
P_d = 1/2 P_c = 1/2 (l) = 533.5 psia (n)

FLOW RATE CALCULATION

Q = 930 X $\left(\frac{\sqrt{(c)}}{\sqrt{(d)}} \right)^* = \text{_____ MCF/da}$
(Integrated)

DELIVERABILITY CALCULATION

D = Q 930 $\left[\frac{P_c^2 - P_d^2}{P_c^2 - P_w^2} \right]^n \frac{(1.079)^{.75}}{1.059} = \text{_____ MCF/da.}$
853.867
791.654

SUMMARY

P_c = 1067 psia
Q = 930 Mcf/day
P_w = 589 psia
P_d = 533.5 psia
D = 985 Mcf/day
Company PACIFIC NORTHWEST PIPELINE
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
3809	0.242	524.273	126.874	219.961	346.835	589

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