

4 - El Paso Natural Gas
2 - Wayne Smith
1 - 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 MESAVERDE Formation MESAVERDE County RIO ARriba
Purchasing Pipeline PACIFIC NORTHERN PIPELINE CORPORATION Date Test Filed JAN 17 1957
Operator EL PASO NATURAL GAS Lease SAN JUAN UNIT 20-6 Well No. 40-16
Unit B Sec. 16 Twp. 20N Rge. 6W Pay Zone: From 5378 To 5908
Casing: OD 5 1/2 WT. 15.5 Set At 5950 Tubing: OD 2-3/8 WT. 4.7 T. Perf. 5873
Produced Through: Casing _____ Tubing X Gas Gravity: Measured _____ Estimated .650
Date of Flow Test: From 12-10-56 To 12-12-56 * Date S.I.P. Measured 11-3-55
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 _____ psig + 12 = _____ psia (g)
Square root chart average reading (_____) ² x sp. const. 580 _____ = 592 psia (g)
Corrected seven day avge. meter press. (p_f) (g) + (e) _____ = _____ psia (h)
P_t = (h) + (f) _____ = 592 psia (i)
Wellhead casing shut-in pressure (Dwt) 1062 psig + 12 = 1074 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) 77 °F + 460 _____ = 537 °Abs (m)
P_d = 1/2 P_c = 1/2 (l) _____ = 536 psia (n)

FLOW RATE CALCULATION

Q = 2486 X $\left(\frac{\sqrt{(c)}}{\sqrt{(d)}} \right) =$ _____ MCF/day
(Integrated)

DELIVERABILITY CALCULATION

D = Q 2486 $\left[\frac{P_c^2 - P_d^2}{P_c^2 - P_w^2} \right]^{1/2} =$ 3017 MCF/day
 $\left[\frac{859,745}{664,373} \right]^{1/2}$

SUMMARY

P_c = 1071 psia
Q = 2486 Mcf/day
P_w = 695 psia
P_d = 536 psia
D = 3017 Mcf/day

Company PACIFIC NORTHERN PIPELINE CORPORATION
By Donald C. Adams
Title Well Test 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
<u>3017</u>	<u>.842</u>	<u>946,297</u>	<u>132,204</u>	<u>350,000</u>	<u>482,608</u>	<u>695</u>

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