

Form C-110
Revised 7/1/55

**CERTIFICATE OF COMPLIANCE AND AUTHORIZATION
TO TRANSPORT OIL AND NATURAL GAS**

Address **Box 97, Farmington, N.M.**

OIL CONSERVATION COMMISSION

AZTEC DISTRICT OFFICE

No. Copies Received

1

DIS. FIELD NO.

NO.

DATE

Operator

1

Santo Fe

1

Proration Office

State Land Office

U. S. G. S.

Transporter

2

File

1

1 - NMCC - Artes
1 - L & Truby
2 - El Paso Natural Gas (Galloway)
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 NORTHWEST PIPELINE CORPORATION Date Test Filed: JAN 17 1957

Operator EL PASO NATURAL GAS Lease SAN JUAN UNIT 28-6 Well No. 46-15
Unit B Sec. 15 Twp. 28N Rge. 6W Pay Zone: From 5332 To 5882
Casing: OD 5 1/2 WT. 15.5 Set At 5882 Tubing: OD 2-3/8 WT. 4.7 T. Perf. 5840
Produced Through: Casing _____ Tubing X Gas Gravity: Measured _____ Estimated .650
Date of Flow Test: From 12-18-56 To 12-26-56 * Date S.I.P. Measured 9-21-56
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. 565 = 577 psia (g)
Corrected seven day avge. meter press. (p_f) (g) + (e) _____ = _____ psia (h)
P_t = (h) + (f) _____ = 577 psia (i)
Wellhead casing shut-in pressure (Dwt) 1099 psig + 12 = 1111 psia (j)
Wellhead tubing shut-in pressure (Dwt) 1082 psig + 12 = 1094 psia (k)
P_c = (j) or (k) whichever well flowed through _____ = 1094 psia (l)
Flowing Temp. (Meter Run) 73 °F + 460 _____ = 533 °Abs (m)
P_d = 1/2 P_c = 1/2 (l) _____ = 547 psia (n)

Q = 1353 X $\left(\frac{\text{FLOW RATE CALCULATION}}{\sqrt{(c)}} = \frac{\sqrt{(d)}}{\sqrt{(d)}} = \right) =$ _____ MCF/da
(integrated)

DELIVERABILITY CALCULATION

D = Q 1353 $\left[\frac{P_c^2 - P_d^2}{P_c^2 - P_w^2} \right]^n \frac{(1.0882) \cdot 75}{1.0654} =$ 1441 MCF/da.

SUMMARY

P_c = 1094 psia
Q = 1353 Mcf/day
P_w = 610 psia
P_d = 547 psia
D = 1441 Mcf/day

Company PACIFIC NORTHWEST 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 ⁻⁸)	(F _c Q) ²	(F _c Q) ² (1-e ⁻⁸) R ²	P _t ² (Column i)	P _t ² + R ²	P _w
3796	.241	161,824	39,000	332,153	371,929	610

OK



