

3-EMCC Artec  
1-Bill Gattler  
1-L. D. Galloway  
1-Wayne 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 2-12-58

Operator PACIFIC NORTHWEST PIPELINE Lease San Juan 31-6 Well No. 11-31  
Unit A Sec. 31 Twp. 31N Rge. 6W Pay Zone: From 5100' To 5518'  
Casing: OD 5-1/2" WT. Set At 5620' Tubing: OD 1-1/4" WT. 2.40 T. Perf. 5506'  
Produced Through: Casing xx Tubing xx Gas Gravity: Measured .573 Estimated xx  
Date of Flow Test: From 1-16-58 To 1-23-58 \* Date S.I.P. Measured 9-3-57  
Meter Run Size xx Orifice Size 1.500 Type Chart xx Type Taps xx

OBSERVED DATA

Flowing casing pressure (Dwt) xx psig + 12 = xx psia (a)  
Flowing tubing pressure (Dwt) xx psig + 12 = xx psia (b)  
Flowing meter pressure (Dwt) xx psig + 12 = xx psia (c)  
Flowing meter pressure (meter reading when Dwt. measurement taken):  
Normal chart reading xx psig + 12 = xx psia (d)  
Square root chart reading ( xx ) <sup>2</sup> x spring constant xx = xx psia (d)  
Meter error (c) - (d) or (d) - (c) xx ± xx = xx psi (e)  
Friction loss, Flowing column to meter:  
(b) - (c) Flow through tubing: (a) - (c) Flow through casing xx = xx psi (f)  
Seven day average static meter pressure (from meter chart):  
Normal chart average reading xx psig + 12 = xx psia (g)  
Square root chart average reading ( 7.05 ) <sup>2</sup> x sp. const. 10 = 497 psia (g)  
Corrected seven day avge. meter press. (p<sub>f</sub>) (g) + (e) xx = 497 psia (h)  
P<sub>t</sub> = (h) + (f) xx = 1192 psia (i)  
Wellhead casing shut-in pressure (Dwt) 1180 psig + 12 = 1192 psia (j)  
Wellhead tubing shut-in pressure (Dwt) 1181 psig + 12 = 1193 psia (k)  
P<sub>c</sub> = (j) or (k) whichever well flowed through xx = 1193 psia (l)  
Flowing Temp. (Meter Run) 60 °F + 460 xx = 520 °Abs (m)  
P<sub>d</sub> = 1/2 P<sub>c</sub> = 1/2 (l) xx = 596.5 psia (n)

Q = 634 X  $\left( \frac{\text{FLOW RATE CALCULATION}}{\sqrt{(c)}} = \frac{\text{xx}}{\sqrt{(d)}} = \text{xx}} \right)^* = \underline{634} MCF/day  
(integrated)$

D = Q 634  $\left[ \frac{P_c^2 - P_d^2}{P_c^2 - P_w^2} \right]^{.75} = \underline{609} MCF/day  
 $\left[ \frac{1,067,437}{1,126,294} \right]^{.75}$$

SUMMARY

P<sub>c</sub> = 1193 psia  
Q = 634 Mcf/day  
P<sub>w</sub> = 545 psia  
P<sub>d</sub> = 596.5 psia  
D = 609 Mcf/day

Company PACIFIC NORTHWEST PIPELINE  
By Original signed by G. H. Peppin  
Title District Production Engineer  
Witnessed by xx  
Company xx

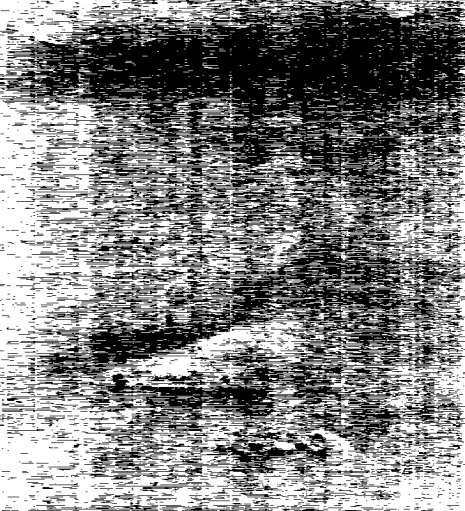
\* This is date of completion test.  
\* Meter error correction factor

REMARKS OR FRICTION CALCULATIONS

| GL   | (1-e <sup>-S</sup> ) | (F <sub>c</sub> Q) <sup>2</sup> | (F <sub>c</sub> Q) <sup>2</sup> (1-e <sup>-S</sup> )<br>R <sup>2</sup> | P <sub>t</sub> <sup>2</sup><br>(Column i) | P <sub>t</sub> <sup>2</sup> + R <sup>2</sup> | P <sub>w</sub> |
|------|----------------------|---------------------------------|------------------------------------------------------------------------|-------------------------------------------|----------------------------------------------|----------------|
| 3155 | 0.205                | 243.641                         | 49.946                                                                 | 247.009                                   | 296.955                                      | 545            |



1111  
1111  
1111



1111

1111

1111

1111

1111

1111

1111

1111

1111

1111

1111

1111

1111

1111

1111

1111

1111

1111

1111

1111

1111

1111

1111



1111

1111

1111

1111