

1 - NEW MEXICO OIL CONSERVATION COMMISSION  
2 - LAND OFFICE  
3 - NEW MEXICO STATE DEPARTMENT OF MINES  
4 - STATE DEPARTMENT OF AGRICULTURE  
5 - STATE DEPARTMENT OF COMMERCE  
6 - STATE DEPARTMENT OF EDUCATION  
7 - STATE DEPARTMENT OF HEALTH  
8 - STATE DEPARTMENT OF HIGHWAYS  
9 - STATE DEPARTMENT OF LANDS  
10 - STATE DEPARTMENT OF MINES  
11 - STATE DEPARTMENT OF NATURAL RESOURCES  
12 - STATE DEPARTMENT OF PUBLIC SAFETY  
13 - STATE DEPARTMENT OF REVENUE  
14 - STATE DEPARTMENT OF SOCIAL WELFARE  
15 - STATE DEPARTMENT OF TRANSPORTATION  
16 - STATE DEPARTMENT OF WORKS  
17 - STATE DEPARTMENT OF ZONING  
18 - STATE DEPARTMENT OF AGRICULTURE  
19 - STATE DEPARTMENT OF COMMERCE  
20 - STATE DEPARTMENT OF EDUCATION  
21 - STATE DEPARTMENT OF HEALTH  
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30 - STATE DEPARTMENT OF WORKS  
31 - STATE DEPARTMENT OF ZONING

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 FRUITLAND MESAVERDE Formation FRUITLAND County BLAQUE  
Purchasing Pipeline FRUITLAND MESAVERDE PIPELINE COMPANY Date Test Filed JAN 17 1957  
Operator FRUITLAND MESAVERDE PIPELINE CO Lease FRUITLAND MESAVERDE NO. 1 Well No. 10-1  
Unit K Sec. 20 Twp. 20N Rge. 10E Pay Zone: From 200 To 200  
Casing: OD 2 1/2 WT. 20.5 Set At 710 Tubing: OD 2 3/8 WT. 4.7 T. Perf. 200  
Produced Through: Casing 2 1/2 Tubing 2 3/8 Gas Gravity: Measured 0.60 Estimated 0.60  
Date of Flow Test: From 12-11-56 To 12-12-56 Date S.I.P. Measured 1-11-57  
Meter Run Size 1 1/2 Orifice Size 1/8 Type Chart 1 Type Taps 1

OBSERVED DATA

Flowing casing pressure (Dwt) 1000 psig + 12 = 1012 psia (a)  
Flowing tubing pressure (Dwt) 1000 psig + 12 = 1012 psia (b)  
Flowing meter pressure (Dwt) 1000 psig + 12 = 1012 psia (c)  
Flowing meter pressure (meter reading when Dwt. measurement taken:  
Normal chart reading 1000 psig + 12 = 1012 psia (d)  
Square root chart reading ( 1000 ) <sup>2</sup> x spring constant 1000 = 1012 psia (d)  
Meter error (c) - (d) or (d) - (c) 0 ± 0 = 0 psi (e)  
Friction loss, Flowing column to meter:  
(b) - (c) Flow through tubing: (a) - (c) Flow through casing 0 = 0 psi (f)  
Seven day average static meter pressure (from meter chart):  
Normal chart average reading 1000 psig + 12 = 1012 psia (g)  
Square root chart average reading ( 1000 ) <sup>2</sup> x sp. const. 1000 = 1012 psia (g)  
Corrected seven day avg. meter press. (p<sub>f</sub>) (g) + (e) 1012 = 1012 psia (h)  
P<sub>t</sub> = (h) + (f) 1012 = 1012 psia (i)  
Wellhead casing shut-in pressure (Dwt) 1000 psig + 12 = 1012 psia (j)  
Wellhead tubing shut-in pressure (Dwt) 1000 psig + 12 = 1012 psia (k)  
P<sub>c</sub> = (j) or (k) whichever well flowed through 1012 = 1012 psia (l)  
Flowing Temp. (Meter Run) 70 °F + 460 = 530 °Abs (m)  
P<sub>d</sub> = 1/2 P<sub>c</sub> = 1/2 (l) 506 = 506 psia (n)

FLOW RATE CALCULATION

Q = 1300 X  $\left( \frac{\sqrt{(c)}}{\sqrt{(d)}} \right) = \text{MCF/day}$   
(Integrated)

DELIVERABILITY CALCULATION

D = Q 1300  $\left[ \frac{P_c^2 - P_d^2}{P_c^2 - P_w^2} \right]^{0.75} = \text{MCF/day}$   
 $\left[ \frac{1012^2 - 506^2}{1012^2 - 970^2} \right]^{0.75}$

SUMMARY

P<sub>c</sub> = 1012 psia  
Q = 1300 Mcf/day  
P<sub>w</sub> = 970 psia  
P<sub>d</sub> = 506 psia  
D = 1300 Mcf/day

Company FRUITLAND MESAVERDE PIPELINE COMPANY  
By FRUITLAND MESAVERDE  
Title 1  
Witnessed by 1  
Company 1

\* 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 1) | P <sub>t</sub> <sup>2</sup> + R <sup>2</sup> | P <sub>w</sub> |
|------------|----------------------|---------------------------------|------------------------------------------------------------------------|-------------------------------------------|----------------------------------------------|----------------|
| <u>500</u> | <u>0.95</u>          | <u>140,000</u>                  | <u>133,000</u>                                                         | <u>1024,000</u>                           | <u>1157,000</u>                              | <u>970</u>     |



