

Initial Deliverability  
Test

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 South Blanco Formation Pictured Cliffs County San Juan  
Purchasing Pipeline El Paso Natural Gas Company Date Test Filed 4-18-58

Operator Northwest Production Corp. Lease San Juan 27-8 Well No. 2-14  
Unit H Sec. 14 Twp. 27N Rge. 8W Pay Zone: From 2940 To 3000  
Casing: OD 5 1/2 WT. 14 & 15.5 Set At 3064 Tubing: OD 1 1/2 WT. 2.3 T. Perf. 2968  
Produced Through: Casing \_\_\_\_\_ Tubing X Gas Gravity: Measured .661 Estimated \_\_\_\_\_  
Date of Flow Test: From 3-8-58 To 3-16-58 \* Date S.I.P. Measured 12-1-57  
Meter Run Size 4.062 Orifice Size 1.250 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 ( \_\_\_\_\_ )<sup>2</sup> 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 ( 8.0 )<sup>2</sup> x sp. const. 500 = 320 psia (g)  
Corrected seven day ave. meter press. (p<sub>f</sub>) (g) + (e) \_\_\_\_\_ = \_\_\_\_\_ psia (h)  
P<sub>t</sub> = (h) + (f) \_\_\_\_\_ = 320 psia (i)  
Wellhead casing shut-in pressure (Dwt) 862 psig + 12 = 874 psia (j)  
Wellhead tubing shut-in pressure (Dwt) 862 psig + 12 = 874 psia (k)  
P<sub>c</sub> = (j) or (k) whichever well flowed through \_\_\_\_\_ = 874 psia (l)  
Flowing Temp. (Meter Run) 57 °F + 460 \_\_\_\_\_ = 517 °Abs (m)  
P<sub>d</sub> = 1/2 P<sub>c</sub> = 1/2 (l) \_\_\_\_\_ = 437 psia (n)

FLOW RATE CALCULATION

$$Q = \text{(integrated)} \times \left( \frac{\sqrt{(c)}}{\sqrt{(d)}} \right) = \text{_____ MCF/da}$$

DELIVERABILITY CALCULATION

$$D = Q \text{ _____ } \left[ \frac{P_c^2 - P_d^2}{P_c^2 - P_w^2} \right]^n = \text{_____ MCF/da.}$$

810      572,907      .9500      770  
                                 608,584      (0.9414)<sup>N</sup>

SUMMARY

P<sub>c</sub> = 874 psia      Company Northwest Production Corp.  
Q = 810 Mcf/day      By Ray Phillips RAY PHILLIPS  
P<sub>w</sub> = 394 psia      Title Mgr. Prod Operations  
P<sub>d</sub> = 437 psia      Witnessed by \_\_\_\_\_  
D = 770 Mcf/day      Company \_\_\_\_\_

- \* 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> |
|------|----------------------|---------------------------------|------------------------------------------------------------------------|-------------------------------------------|----------------------------------------------|----------------|
| 1962 | 0.133                | 397.683                         | 52,892                                                                 | 102,400                                   | 155,292                                      | 394.1          |

F<sub>c</sub> = 24.62



No. 100-100000-100000 OFFICE

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