

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 Anteo Extension Formation PS County San Juan  
Purchasing Pipeline El Paso Natural Gas Co. Date Test Filed 5/16/58

Operator Northwest Production Corp. Lease San Juan 20-0 Well No. 1-35  
Unit 0 Sec. 35 Twp. 20N Rge. 9W Pay Zone: From 2074 To 2114  
Casing: OD 4-1/2 WT. 9.5 Set At 2230 Tubing: OD 1-1/4 WT. 2.3 T. Perf. 2122  
Produced Through: Casing    Tubing X Gas Gravity: Measured .645 Estimated     
Date of Flow Test: From 4-21-58 To 4-30-58 \* Date S.I.P. Measured 4-22-58 2-4-58  
Meter Run Size 4.0 Orifice Size 1.00 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 ( 7.35 ) <sup>2</sup> x sp. const. 10.00 = 540 psia (g)  
Corrected seven day avge. meter press. (p<sub>f</sub>) (g) + (e)    = 540 psia (h)  
P<sub>t</sub> = (h) + (f)    = 540 psia (i)  
Wellhead casing shut-in pressure (Dwt) 937 psig + 12 = 949 psia (j)  
Wellhead tubing shut-in pressure (Dwt) 937 psig + 12 = 949 psia (k)  
P<sub>c</sub> = (j) or (k) whichever well flowed through    = 949 psia (l)  
Flowing Temp. (Meter Run) 69 °F + 460    = 529 °Abs (m)  
P<sub>d</sub> = 1/2 P<sub>c</sub> = 1/2 (l)    = 475 psia (n)

Q =    X  $\left( \frac{\text{FLOW RATE CALCULATION}}{\frac{\sqrt{(c)}}{\sqrt{(d)}}} = \frac{\text{  }}{\text{  }} = \text{  } \right)^{.75}$  =    MCF/da  
(integrated)

DELIVERABILITY CALCULATION

D = Q 517  $\left[ \frac{(P_c^2 - P_d^2)}{(P_c^2 - P_w^2)} \right]^n = \frac{1.1190}{(1.1374)^{.75}}$  = 577 MCF/da.

SUMMARY

P<sub>c</sub> = 949 psia  
Q = 517 Mcf/day  
P<sub>w</sub> = 554 psia  
P<sub>d</sub> = 475 psia  
D = 577 Mcf/day

Company Northwest Production Corp.  
By Ray Phillips RAY PHILLIPS  
Title Mgr., Production Operations  
Witnessed by     
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> |
|------|----------------------|---------------------------------|------------------------------------------------------------------------|-------------------------------------------|----------------------------------------------|----------------|
| 1200 | 0.006                | 103,027                         | 15,555                                                                 | 201,000                                   | 207,155                                      | 554.2          |

P<sub>c</sub> = 24.02

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