

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 Angel Peak Dakota Formation Dakota County San Juan  
Purchasing Pipeline El Paso Natural Gas Co. Date Test Filed 10-21-58  
Operator W.R. Weaver Lease McAdams Well No. 4 Dakota  
Unit N Sec. 34 Twp. 27N Rge. 10W Pay Zone: From 6914 To 6950  
Casing: OD 5 1/2 WT. 15.5 Set At 6848 to 7083 Tubing: OD 2 3/8 WT. 4.7 T. Perf. 6936  
Produced Through: Casing \_\_\_\_\_ Tubing X Gas Gravity: Measured .732 Estimated \_\_\_\_\_  
Date of Flow Test: From 9-22-58 To 9-30-58 \* Date S.I.P. Measured 8-30-58  
Meter Run Size 1 1/2" Orifice Size 2.000 Type Chart Sq. Rt. Type Taps \_\_\_\_\_

OBSERVED DATA

Flowing casing pressure (Dwt) \_\_\_\_\_ None psig + 12 = \_\_\_\_\_ None psia (a)  
Flowing tubing pressure (Dwt) \_\_\_\_\_ 489 psig + 12 = \_\_\_\_\_ 501 psia (b)  
Flowing meter pressure (Dwt) \_\_\_\_\_ 483 psig + 12 = \_\_\_\_\_ 495 psia (c)  
Flowing meter pressure (meter reading when Dwt. measurement taken):  
Normal chart reading \_\_\_\_\_ psig + 12 = \_\_\_\_\_ psia (d)  
Square root chart reading (7.04)<sup>2</sup> x spring constant 1000 = \_\_\_\_\_ 495 psia (d)  
Meter error (c) - (d) or (d) - (c) \_\_\_\_\_ ± \_\_\_\_\_ = \_\_\_\_\_ 0 psi (e)  
Friction loss, Flowing column to meter:  
(b) - (c) Flow through tubing; (a) - (c) Flow through casing \_\_\_\_\_ = \_\_\_\_\_ 6 psi (f)  
Seven day average static meter pressure (from meter chart):  
Normal chart average reading \_\_\_\_\_ psig + 12 = \_\_\_\_\_ psia (g)  
Square root chart average reading (7.05)<sup>2</sup> x sp. const. 1000 = \_\_\_\_\_ 496 psia (g)  
Corrected seven day avge. meter press. (p<sub>f</sub>) (g) + (e) \_\_\_\_\_ = \_\_\_\_\_ 496 psia (h)  
P<sub>t</sub> = (h) + (f) \_\_\_\_\_ = \_\_\_\_\_ 502 psia (i)  
Wellhead casing shut-in pressure (Dwt) \_\_\_\_\_ None psig + 12 = \_\_\_\_\_ psia (j)  
Wellhead tubing shut-in pressure (Dwt) \_\_\_\_\_ 1470 psig + 12 = \_\_\_\_\_ 1482 psia (k)  
P<sub>c</sub> = (j) or (k) whichever well flowed through \_\_\_\_\_ = \_\_\_\_\_ 1482 psia (l)  
Flowing Temp. (Meter Run) \_\_\_\_\_ 104 °F + 460 \_\_\_\_\_ = \_\_\_\_\_ 564 °Abs (m)  
P<sub>d</sub> = 1/2 P<sub>c</sub> = 1/2 (l) \_\_\_\_\_ = \_\_\_\_\_ 741 psia (n)

FLOW RATE CALCULATION

$$Q = \frac{958}{(\text{integrated})} \times \left( \frac{\sqrt{(c)}}{\sqrt{(d)}} = \frac{22.25}{22.25} = 1.000 \right) = 958 \text{ MCF/da}$$

DELIVERABILITY CALCULATION

$$D = Q \frac{958}{\left[ \frac{P_c^2 - P_d^2}{P_c^2 - P_w^2} \right]^{.75}} = \frac{958}{\left[ \frac{1647243}{1919648} \right]^{.75}} = \frac{958}{.8916} = 854 \text{ MCF/da.}$$

SUMMARY

P<sub>c</sub> = 1482 psia  
Q = 958 Mcf/day  
P<sub>w</sub> = 526 psia  
P<sub>d</sub> = 741 psia  
D = 854 Mcf/day

Company Well Production Co.  
By N.A. Neely  
Title Owner  
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> |
|------|----------------------|---------------------------------|------------------------------------------------------------------------|-------------------------------------------|----------------------------------------------|----------------|
| 5077 | .309                 | 81.126                          | 25.067                                                                 | 252.004                                   | 277.071                                      | 526            |

