

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)

Initial Deliverability  
Test

Pool South Blanco Formation PC County SJ  
Purchasing Pipeline El Paso Natural Gas Date Test Filed January 27, 1958  
Operator R & G Drilling Co. Lease Graham Well No. 34  
Unit B Sec. 3 Twp. 27N Rge. 8W Pay Zone: From 2215 To 2275  
Casing: OD 5 1/8 WT.        Set At 2330 Tubing: OD 3/4 WT.        T. Perf. 2250  
Produced Through: Casing X Tubing        Gas Gravity: Measured .635 Estimated         
Date of Flow Test: From 12/17/57 To 12/24/57 \* Date S.I.P. Measured 8/1/57  
Meter Run Size        Orifice Size .750 Type Chart SR Type Taps Flange

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 ( 7140 )<sup>2</sup> x sp. const. 1000 = 548 psia (g)  
Corrected seven day avge. meter press. (p<sub>f</sub>) (g) + (e)        = 548 psia (h)  
P<sub>t</sub> = (h) + (f)        = 548 psia (i)  
Wellhead casing shut-in pressure (Dwt) 933 psig + 12 = 945 psia (j)  
Wellhead tubing shut-in pressure (Dwt)        psig + 12 = 945 psia (k)  
P<sub>c</sub> = (j) or (k) whichever well flowed through        = 945 psia (l)  
Flowing Temp. (Meter Run) 45 °F + 460        = 505 ° Abs (m)  
P<sub>d</sub> = 1/2 P<sub>c</sub> = 1/2 (l)        = 473 psia (n)

Q = 190 X  $\left( \frac{\text{FLOW RATE CALCULATION}}{\sqrt{(c)}} = \frac{\text{      }}{\sqrt{(d)}} = \text{      }} \right)^{.}$  =        MCF/da  
(integrated)

DELIVERABILITY CALCULATION

D = Q 190  $\left[ \frac{(P_c^2 - P_d^2)}{(P_c^2 - P_w^2)} = \frac{669,296}{592,721} \right]^n$  1.1002 = 209 MCF/da.

SUMMARY

P<sub>c</sub> = 945 psia  
Q = 190 Mcf/day  
P<sub>w</sub> = 548 psia  
P<sub>d</sub> = 473 psia  
D = 209 Mcf/day

Company GeoElectric, Inc.  
By         
Title Agent D. W. Stiles  
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> R <sup>2</sup>	(1-e <sup>-S</sup> )	P <sub>t</sub> <sup>2</sup> (Column i)	P <sub>t</sub> <sup>2</sup> + R <sup>2</sup>	P <sub>w</sub>

Negligible

