

Initial Deliverability  
Test

Form C-129-1  
Revised April 30, 1959

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 Palmer-Data Est. Formation Pio Gileto County San Juan  
Purchasing Pipeline BPNG Date Test Filed 1-6-60

Operator Wellsboro Development Co. Lease Stevens Well No. 28  
Unit 3 F Sec. 7 Twp. 23N Rge. 12W Pay Zone: From 1540 To 1564  
Casing: OD 2 1/2 WT. 15.3 Set At 1562 Tubing: OD 1 1/2 WT. 2.70 T. Perf. 1562  
Produced Through: Casing \_\_\_\_\_ Tubing I Gas Gravity: Measured 0.635 Estimated \_\_\_\_\_  
Date of Flow Test: From \_\_\_\_\_ To \_\_\_\_\_ \* Date S.I.P. Measured \_\_\_\_\_  
Meter Run Size \_\_\_\_\_ Orifice Size 0.230 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 (7.25) <sup>2</sup> x sp. const. 500 = 256 psia (g)  
Corrected seven day avg. meter press. (p<sub>f</sub>) (g) + (e) \_\_\_\_\_ = \_\_\_\_\_ psia (h)  
P<sub>t</sub> = (h) + (f) \_\_\_\_\_ = 256 psia (i)  
Wellhead casing shut-in pressure (Dwt) \_\_\_\_\_ 512 psig + 12 = 524 psia (j)  
Wellhead tubing shut-in pressure (Dwt) \_\_\_\_\_ 512 psig + 12 = 524 psia (k)  
P<sub>c</sub> = (j) or (k) whichever well flowed through \_\_\_\_\_ = 524 psia (l)  
Flowing Temp. (Meter Run) \_\_\_\_\_ 43 °F + 460 \_\_\_\_\_ = 503 °Abs (m)  
P<sub>d</sub> = 1/2 P<sub>c</sub> = 1/2 (l) \_\_\_\_\_ = 262 psia (n)

Q = 70 (integrated) x  $\left( \frac{\text{FLOW RATE CALCULATION}}{\sqrt{(c)}} = \frac{\sqrt{(d)}}{\sqrt{(d)}} \right) = \underline{70} \text{ MCF/day}$

DELIVERABILITY CALCULATION

D = Q 70  $\left[ \frac{P_c^2 - P_d^2}{P_c^2 - P_w^2} = \frac{201,922}{202,156} \right]^n \frac{(.9893)^{.85}}{(.9909)} = \underline{69} \text{ MCF/day}$

SUMMARY

P<sub>c</sub> = 524 psia  
Q = 70 Mcf/day  
P<sub>w</sub> = 256 psia  
P<sub>d</sub> = 262 psia  
D = 69 Mcf/day

Company Wellsboro Development Co.  
By \_\_\_\_\_  
Title Consulting Engineer  
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> ) R <sup>2</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>
1014	0.971	12.447	0.264	62.536	64.400	256

