

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 Ballard Pictured Cliffs Formation Pictured Cliffs County San Juan  
Purchasing Pipeline Southern Union Gas Company Date Test Filed 3-20-56  
Operator Southern Union Gas Company Lease Nowson Well No. 1  
Unit P Sec. 29 Twp. 26-N Rge. 8-W Pay Zone: From 2104' To 2189'  
Casing: OD 5 1/2" WT. 15.5# Set At 2104' Tubing: OD 1" WT. 1.7# T. Perf. \_\_\_\_\_  
Produced Through: Casing XX Tubing \_\_\_\_\_ Gas Gravity: Measured .671 Estimated \_\_\_\_\_  
Date of Flow Test: From 1/16/56 To 1/24/56 \* Date S.I.P. Measured 9/3/54  
Meter Run Size 4" Orifice Size 1" Type Chart Normal Type Taps Flanges

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 185 psig + 12 = 197 psia (g)  
Square root chart average reading (\_\_\_\_\_) <sup>2</sup> x sp. const. \_\_\_\_\_ = \_\_\_\_\_ psia (g)  
Corrected seven day avge. meter press. (p<sub>f</sub>) (g) + (e) \_\_\_\_\_ = 197 psia (h)  
P<sub>t</sub> = (h) + (f) \_\_\_\_\_ = 197 psia (i)  
Wellhead casing shut-in pressure (Dwt) 635 psig + 12 = 647 psia (j)  
Wellhead tubing shut-in pressure (Dwt) 635 psig + 12 = 647 psia (k)  
P<sub>c</sub> = (j) or (k) whichever well flowed through \_\_\_\_\_ = 647 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) \_\_\_\_\_ = 323 psia (n)

FLOW RATE CALCULATION

Q = 139 X  $\left( \frac{V(c)}{V(d)} \right)^n$  = 139 MCF/da  
(Integrated) \_\_\_\_\_ = None

DELIVERABILITY CALCULATION

D = Q 139  $\left[ \frac{P_c^2 - P_d^2}{P_c^2 - P_w^2} \right]^{0.85}$  = 118 MCF/da.  
\_\_\_\_\_  $\left[ \frac{314,280}{379,800} \right]^{0.85}$

SUMMARY

P<sub>c</sub> = 647 psia  
Q = 139 Mcf/day  
P<sub>w</sub> = 197 psia  
P<sub>d</sub> = 323 psia  
D = 118 Mcf/day

Company Southern Union Gas Company  
By L. S. Muenink  
Title Jr. Petroleum 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> 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>

Friction Loss Negligible

OK



OIL CONSERVATION COMMISSION	
AUTOMATIC DIVISION	
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NO. 2	1
NO. 3	1
NO. 4	1
NO. 5	1
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