

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 Elance Mesa Verde Formation Mesa Verde County El Arriba  
Purchasing Pipeline El Paso Natural Gas Company Date Test Filed \_\_\_\_\_

Operator El Paso Natural Gas Lease San Juan 28-6 Well No. 8  
Unit X Sec. 25 Twp. 28N Rge. 6W Pay Zone: From 5120 To 5870  
Casing: OD 7 WT. 20 Set At 5197 Tubing: OD 2 WT. 4.7 T. Perf. 5061  
Produced Through: Casing \_\_\_\_\_ Tubing X Gas Gravity: Measured .720 Estimated \_\_\_\_\_  
Date of Flow Test: From 5/31 To 6/8 \* Date S.I.P. Measured 10/4/54  
Meter Run Size 4 Orifice Size \_\_\_\_\_ Type Chart 8q. Rt. 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 (7.50) <sup>2</sup> x sp. const. 1000 = 563 psia (g)  
Corrected seven day avge. meter press. (p<sub>f</sub>) (g) + (e) = 563 psia (h)  
P<sub>t</sub> = (h) + (f) = 563 psia (i)  
Wellhead casing shut-in pressure (Dwt) 1096 psig + 12 = 1108 psia (j)  
Wellhead tubing shut-in pressure (Dwt) 1053 psig + 12 = 1065 psia (k)  
P<sub>c</sub> = (j) or (k) whichever well flowed through = 1065 psia (l)  
Flowing Temp. (Meter Run) 77 °F + 460 = \_\_\_\_\_ °Abs (m)  
P<sub>d</sub> = ½ P<sub>c</sub> = ½ (l) = 533 psia (n)

FLOW RATE CALCULATION

Q = \_\_\_\_\_ X  $\left( \frac{\sqrt{(c)}}{\sqrt{(d)}} \right)^* =$  \_\_\_\_\_ MCF/day  
(integrated)

DELIVERABILITY CALCULATION

D = Q 140  $\left[ \frac{P_c^2 - P_d^2}{P_c^2 - P_w^2} \right]^n =$  144 MCF/day  
 $\frac{850,136}{817,256}$   $\frac{1.0402}{1.02985}$

SUMMARY

P<sub>c</sub> = 1065 psia Company El Paso Natural Gas Company  
Q = 140 Mcf/day By Original Signed  
P<sub>w</sub> = 563 psia Title Lewis D. Galloway  
P<sub>d</sub> = 533 psia Witnessed by \_\_\_\_\_  
D = 144 Mcf/day 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> |
|----|----------------------|---------------------------------|------------------------------------------------------------------------|-------------------------------------------|----------------------------------------------|----------------|
|    |                      |                                 |                                                                        |                                           |                                              |                |
|    |                      |                                 | FRICTION NEGLECTED                                                     |                                           |                                              |                |

D @ 500 = 147

*[Handwritten signature]*



NEW MEXICO OIL CONSERVATION COMMISSION  
SAS WELL TEST DATA SHEET - SAN JUAN BASIN

TO BE USED FOR FRUITLAND, PICTURED OFFER, MESAVERDE, F. ALL DAKOTA  
EXPERT BARKER COME STEADY AREA

Blanco Mesa Verde Location

County

Location

Date Test Made

El Paso Natural Gas Company

Well No.

Well No.

San Juan 28-2

El Paso Natural Gas

Well No.

28-2

Well No.

28-2

Well No.

28-2

Well No.

28-2

Well No.

28-2

Well No.

28-2

Well No.

28-2

Well No.

28-2

Well No.

28-2

Well No.

28-2

Well No.

28-2

Well No.

28-2

OBSERVED DATA

|     |                                |     |
|-----|--------------------------------|-----|
| (a) | Flow rate (bbl/hr)             | 1.5 |
| (b) | Pressure (psi)                 | 100 |
| (c) | Temperature (°F)               | 100 |
| (d) | Viscosity (cP)                 | 100 |
| (e) | Specific Gravity               | 1.0 |
| (f) | Gas Content (scf/bbl)          | 100 |
| (g) | Water Content (bbl/bbl)        | 100 |
| (h) | Surfactant Concentration (ppm) | 100 |
| (i) | Flow Line Diameter (in)        | 100 |
| (j) | Flow Line Length (ft)          | 100 |
| (k) | Flow Line Material             | 100 |
| (l) | Flow Line Condition            | 100 |
| (m) | Flow Line Insulation           | 100 |
| (n) | Flow Line Protection           | 100 |
| (o) | Flow Line Access               | 100 |
| (p) | Flow Line Emission             | 100 |
| (q) | Flow Line Noise                | 100 |
| (r) | Flow Line Vibration            | 100 |
| (s) | Flow Line Corrosion            | 100 |
| (t) | Flow Line Degradation          | 100 |
| (u) | Flow Line Failure              | 100 |
| (v) | Flow Line Repair               | 100 |
| (w) | Flow Line Replacement          | 100 |
| (x) | Flow Line Removal              | 100 |
| (y) | Flow Line Installation         | 100 |
| (z) | Flow Line Operation            | 100 |

DELIVERABILITY CALCULATION

|                                |     |
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| Temperature (°F)               | 100 |
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| Specific Gravity               | 1.0 |
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| Water Content (bbl/bbl)        | 100 |
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| Flow Line Diameter (in)        | 100 |
| Flow Line Length (ft)          | 100 |
| Flow Line Material             | 100 |
| Flow Line Condition            | 100 |
| Flow Line Insulation           | 100 |
| Flow Line Protection           | 100 |
| Flow Line Access               | 100 |
| Flow Line Emission             | 100 |
| Flow Line Noise                | 100 |
| Flow Line Vibration            | 100 |
| Flow Line Corrosion            | 100 |
| Flow Line Degradation          | 100 |
| Flow Line Failure              | 100 |
| Flow Line Repair               | 100 |
| Flow Line Replacement          | 100 |
| Flow Line Removal              | 100 |
| Flow Line Installation         | 100 |
| Flow Line Operation            | 100 |

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| Flow Line Installation         | 100 |
| Flow Line Operation            | 100 |

| Operator          | No. Furnished |
|-------------------|---------------|
| Santa Fe          | 1             |
| State Land Office | 1             |
| U. S. G. S.       | 1             |
| Transporter       | 1             |
| File              | 1             |

