

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 Formation Pictured Cliffs County San Juan  
Purchasing Pipeline El Paso Natural Gas Company Date Test Filed \_\_\_\_\_

Operator El Paso Natural Gas Lease Ka-Souse Well No. 1  
Unit I Sec. 25 Twp. 26N Rge. 9W Pay Zone: From 1923 To 1928  
Casing: OD 5 1/2 WT. 14 & 15.5 Set At 1923 Tubing: OD 1 WT. 1.68 T. Perf. 1897  
Produced Through: Casing X Tubing \_\_\_\_\_ Gas Gravity: Measured .685 Estimated \_\_\_\_\_  
Date of Flow Test: From 2/8 To 2/17/57 \* Date S.I.P. Measured June 27, 1956  
Meter Run Size \_\_\_\_\_ Orifice Size \_\_\_\_\_ 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 7.15 \_\_\_\_\_ psig + 12 = 256 psia (g)  
Square root chart average reading (\_\_\_\_\_) <sup>2</sup> x sp. const. 5 \_\_\_\_\_ = 256 psia (g)  
Corrected seven day avge. meter press. (p<sub>f</sub>) (g) + (e) \_\_\_\_\_ = 256 psia (h)  
P<sub>t</sub> = (h) + (f) \_\_\_\_\_ = 648 psia (i)  
Wellhead casing shut-in pressure (Dwt) 636 \_\_\_\_\_ psig + 12 = 648 psia (j)  
Wellhead tubing shut-in pressure (Dwt) 635 \_\_\_\_\_ psig + 12 = 648 psia (k)  
P<sub>c</sub> = (j) or (k) whichever well flowed through \_\_\_\_\_ = 648 psia (l)  
Flowing Temp. (Meter Run) 51 °F + 460 \_\_\_\_\_ = 511 °Abs (m)  
P<sub>d</sub> = 1/2 P<sub>c</sub> = 1/2 (l) \_\_\_\_\_ = 324 psia (n)

Q = \_\_\_\_\_ X  $\left( \frac{\text{FLOW RATE CALCULATION}}{\frac{\sqrt{(c)}}{\sqrt{(d)}}} = \frac{\text{_____}}{\text{_____}} = \text{_____} \right) = \text{251} \text{ MCF/da}$   
(integrated)

DELIVERABILITY CALCULATION

D = Q 251  $\left[ \frac{P_c^2 - P_d^2}{P_c^2 - P_w^2} = \frac{314,928}{354,368} \right]^n \frac{.8887}{.9045} = \text{227} \text{ MCF/da.}$

SUMMARY

|                  |            |         |              |                                    |
|------------------|------------|---------|--------------|------------------------------------|
| P <sub>c</sub> = | <u>648</u> | psia    | Company      | <u>El Paso Natural Gas Company</u> |
| Q =              | <u>251</u> | Mcf/day | By           | <u>Original Signed</u>             |
| P <sub>w</sub> = | <u>256</u> | psia    | Title        | <u>Lewis D. Galloway</u>           |
| P <sub>d</sub> = | <u>324</u> | psia    | Witnessed by | _____                              |
| D =              | <u>227</u> | 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> |
|----|----------------------|---------------------------------|------------------------------------------------------------------------|-------------------------------------------|----------------------------------------------|----------------|
|    |                      |                                 | FRICITION NEGLIGIBLE                                                   |                                           |                                              |                |

D @ 250 = 249

OK



# WISCONSIN OIL CONSERVATION COMMISSION GAS WELL TEST DATA SHEET - SAN JUAN BASIN

(TO BE USED FOR PRINTING AND PICTURED CLIPS - AVAILABLE AT ALL BAKOTA  
EXHIBIT PARKER DOME STORAGE AREA)

Well No. \_\_\_\_\_ County \_\_\_\_\_ District \_\_\_\_\_

Oil Field \_\_\_\_\_

| Well No. | Test Date | Test Time | Test Pressure | Test Temperature | Test Location |
|----------|-----------|-----------|---------------|------------------|---------------|
| 1000     | 1953      | 1:15      | 100           | 100              | 100           |

## TEST DATA

|     |                  |      |
|-----|------------------|------|
| (a) | Well No.         | 1000 |
| (b) | Test Date        | 1953 |
| (c) | Test Time        | 1:15 |
| (d) | Test Pressure    | 100  |
| (e) | Test Temperature | 100  |
| (f) | Test Location    | 100  |
| (g) | Test Pressure    | 100  |
| (h) | Test Temperature | 100  |
| (i) | Test Location    | 100  |
| (j) | Test Pressure    | 100  |
| (k) | Test Temperature | 100  |
| (l) | Test Location    | 100  |
| (m) | Test Pressure    | 100  |
| (n) | Test Temperature | 100  |
| (o) | Test Location    | 100  |
| (p) | Test Pressure    | 100  |
| (q) | Test Temperature | 100  |
| (r) | Test Location    | 100  |
| (s) | Test Pressure    | 100  |
| (t) | Test Temperature | 100  |
| (u) | Test Location    | 100  |
| (v) | Test Pressure    | 100  |
| (w) | Test Temperature | 100  |
| (x) | Test Location    | 100  |
| (y) | Test Pressure    | 100  |
| (z) | Test Temperature | 100  |

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100 100 = 100