

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 Anteo Formation Pictured Cliff County San Juan
Purchasing Pipeline El Paso Natural Gas Co Date Test Filed 6-26, 1956
Operator Petroleum Corp. Lease Federal Well No. 2
Unit 1 Sec. 1 Twp. 23N Rge. 11W Pay Zone: From 2167 To 2172
Casing: OD 9 1/2 WT. 14 1/2 Set At 2282 Tubing: OD 1" WT. 1.7 T. Perf. 2172
Produced Through: Casing Tubing X Gas Gravity: Measured 695 Estimated
Date of Flow Test: From 6-1-56 To 6-8-56 * Date S.I.P. Measured 6-1-56
Meter Run Size 1" Orifice Size 1.90 Type Chart 84-R 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 (_____) ² x spring constant _____ = _____ psia (d)
Meter error (c) - (d) or (d) - (c) _____ ± _____ = _____ psi (e)
Friction loss, Flowing column to meter: _____ = _____ psi (f)
(b) - (c) Flow through tubing: (a) - (c) Flow through casing
Seven day average static meter pressure (from meter chart):
Normal chart average reading _____ psig + 12 = _____ psia (g)
Square root chart average reading (7.35) ² x sp. const. 5 = 236 psia (g)
Corrected seven day avge. meter press. (p_f) (g) + (e) = 236 psia (h)
P_t = (h) + (f) = 236 psia (i)
Wellhead casing shut-in pressure (Dwt) 610 psig + 12 = 622 psia (j)
Wellhead tubing shut-in pressure (Dwt) 609 psig + 12 = 621 psia (k)
P_c = (j) or (k) whichever well flowed through = 621 psia (l)
Flowing Temp. (Meter Run) 64 °F + 460 = 504 °Abs (m)
P_d = 1/2 P_c = 1/2 (l) = 311 psia (n)

FLOW RATE CALCULATION

Q = 671 X $\left(\frac{\sqrt{(c)}}{\sqrt{(d)}} \right) = \underline{\underline{671}}$ MCF/da
(integrated)

DELIVERABILITY CALCULATION

D = Q 671 $\left[\frac{P_c^2 - P_d^2}{P_c^2 - P_w^2} \right]^n = 671 \times (.9302)^{.85} = \underline{\underline{638}}$ MCF/da.

SUMMARY

P_c = 621 psia
Q = 671 Mcf/day
P_w = 224 psia
P_d = 311 psia
D = 638 Mcf/day

Company Petroleum Corporation
By M. L. Seelinger
Title Eng. Prod. Dept.
Witnessed by Don Jamieson
Company Petroleum Corp.

- * This is date of completion test.
- * Meter error correction factor

REMARKS OR FRICTION CALCULATIONS

GL	(1-e ^{-S})	(F _c Q) ²	(F _c Q) ² (1-e ^{-S}) R ²	P _t ² (Column i)	P _t ² + R ²	P _w
<u>1226</u>	<u>1098</u>	<u>39.776</u>	<u>3.898</u>	<u>65.536</u>	<u>69.434</u>	<u>224</u>



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