

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 Mesa Verde Formation Mesa Verde County RA
Purchasing Pipeline El Paso Natural Gas Co Date Test Filed Jan 4, 1957

Operator Blackwood & Nichols Lease El Mesa Well Well No. 20-36
Unit 8 Sec. 36 Twp. 32N Rge. 7W Pay Zone: From _____ To _____
Casing: OD _____ WT. _____ Set At _____ Tubing: OD 2 WT. _____ T. Perf. 2435
Produced Through: Casing _____ Tubing 2 Gas Gravity: Measured .905 Estimated _____
Date of Flow Test: From 11/20/56 To 11/30/56 * Date S.I.P. Measured 11/2/56
Meter Run Size 4" Orifice Size _____ Type Chart 2B 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:
(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 (7.46)² x sp. const. 21.50 = _____ psia (g)
Corrected seven day avg. meter press. (p_f) (g) + (e) _____ = _____ psia (h)
P_t = (h) + (f) _____ = _____ psia (i)
Wellhead casing shut-in pressure (Dwt) _____ psig + 12 = _____ psia (j)
Wellhead tubing shut-in pressure (Dwt) _____ psig + 12 = _____ psia (k)
P_c = (j) or (k) whichever well flowed through _____ = _____ psia (l)
Flowing Temp. (Meter Run) _____ °F + 460 _____ = _____ °Abs (m)
P_d = 1/2 P_c = 1/2 (l) _____ = _____ psia (n)

FLOW RATE CALCULATION

$$Q = \frac{Q_{int}}{(integrated)} \times \left(\frac{\sqrt{c}}{\sqrt{d}} \right) = \text{_____ MCF/day}$$

DELIVERABILITY CALCULATION

$$D = Q \left[\frac{P_c^2 - P_d^2}{P_c^2 - P_w^2} \right]^n = \text{_____ MCF/day}$$

SUMMARY

P_c = 2042 psia
Q = 402 Mcf/day
P_w = 204 psia
P_d = 200 psia
D = 442 Mcf/day

Company Geoketria, Inc
By V. J. MacConathy
Title Agent
Witnessed by _____
Company _____

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

REMARKS OR FRICTION CALCULATIONS

| GL | (1-e ⁻⁸) | (F _c Q) ² | (F _c Q) ² (1-e ⁻⁸) R ² | P _t ² (Column i) | P _t ² + R ² | P _w |
|-------------|----------------------|---------------------------------|--|---|--|----------------|
| <u>3346</u> | <u>.306</u> | <u>34,379</u> | <u>7.045</u> | <u>308,005</u> | <u>315,070</u> | <u>204.3</u> |



