

Initial Deliverability
Test

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 Blanco IV Formation Mesa Verde County LA
Purchasing Pipeline El Paso Natural Gas Co Date Test Filed 2/1/57

Operator Blackwood & Nichols Lease EE Blanco Unit Well No. 21-36
Unit II Sec. 36 Twp. 31N Rge. 7E Pay Zone: From _____ To _____
Casing: OD _____ WT. _____ Set At _____ Tubing: OD 2" WT. _____ T. Perf. 3743
Produced Through: Casing _____ Tubing I Gas Gravity: Measured .995 Estimated _____
Date of Flow Test: From 12/20/56 To 12/31/56 * Date S.I.P. Measured 11/23/56
Meter Run Size 4" Orifice Size .750 Type Chart 84 B 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 (7.25) ² x sp. const. 16.00 _____ = 911 psia (g)
Corrected seven day avg. meter press. (p_f) (g) + (e) _____ = _____ psia (h)
P_t = (h) + (f) _____ = 911 psia (i)
Wellhead casing shut-in pressure (Dwt) 953 psig + 12 = 965 psia (j)
Wellhead tubing shut-in pressure (Dwt) 953 psig + 12 = 965 psia (k)
P_c = (j) or (k) whichever well flowed through _____ = 965 psia (l)
Flowing Temp. (Meter Run) 78 °F + 460 _____ = 538 °Abs (m)
P_d = ½ P_c = ½ (l) _____ = 482 psia (n)

Q = 650 X $\left(\frac{\text{FLOW RATE CALCULATION}}{\sqrt{(c)}} = \frac{\sqrt{(d)}}{\sqrt{(d)}} \right) =$ _____ (integrated)

D = Q 650 $\left[\frac{(P_c^2 - P_d^2)}{(P_c^2 - P_w^2)} = \frac{692,902}{663,066} \right]^n$ 1.0446 = 679 OIL CON. COM. (MCF/day)

SUMMARY

P_c = 965 psia
Q = 650 Mcf/day
P_w = 539 psia
P_d = 482 psia
D = 679 Mcf/day

Company Gas Electric, Inc
By H. J. McConathy 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>3417</u>	<u>.220</u>	<u>37,348</u>	<u>8,217</u>	<u>261,128</u>	<u>269,398</u>	<u>539.0</u>

INITIAL PRODUCTION TEST AFTER WIDOWER

OLL