

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 NV Formation NV County SJ
Purchasing Pipeline EL PASO NATURAL GAS CO Date Test Filed Aug 14, 1958
Operator Blanchard Minerals Lease NE Blanco Unit Well No. 10-16
Unit N Sec. 16 Twp. 30N Rge. 7E Pay Zone: From 4765 To 5534
Casing: OD 5 WT. Set At 5534 Tubing: OD 2 WT. T. Perf. 5403
Produced Through: Casing Tubing X Gas Gravity: Measured .698 Estimated
Date of Flow Test: From 6-17 To 6-24 * Date S.I.P. Measured Mar 21, 1958
Meter Run Size 40 Orifice Size 1.750 Type Chart SR 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 (5.75)² x sp. const. 1500 = 497 psia (g)
Corrected seven day avge. meter press. (p_f) (g) + (e) = psia (h)
P_t = (h) + (f) = 497 psia (i)
Wellhead casing shut-in pressure (Dwt) 978 psig + 12 = 990 psia (j)
Wellhead tubing shut-in pressure (Dwt) 978 psig + 12 = 990 psia (k)
P_c = (j) or (k) whichever well flowed through = 990 psia (l)
Flowing Temp. (Meter Run) 78 °F + 460 = 538 °Abs (m)
P_d = ½ P_c = ½ (l) = 495 psia (n)

FLOW RATE CALCULATION

Q = 1,867 X $\left(\frac{\sqrt{(c)}}{\sqrt{(d)}} \right) =$ MCF/da
(Integrated)

DELIVERABILITY CALCULATION

D = Q 1,867 $\left[\frac{(P_c^2 - P_d^2)}{(P_c^2 - P_w^2)} \right]^n$ 1.0003 = 2,817 MCF/da.

SUMMARY

P_c = 990 psia Company Oil Control, Inc
Q = 1867 Mcf/day By W. H. Rogers
P_w = 563 psia Title AGENT
P_d = 495 psia Witnessed by
D = 2817 Mcf/day 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>35.58</u>	<u>.228</u>	<u>308.127</u>	<u>70,253</u>	<u>247,009</u>	<u>317,262</u>	<u>563</u>

