

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 Formation W County _____
Purchasing Pipeline EP&S Date Test Filed _____
Operator Blackwell & Nichols Lease Blanco Unit Well No. 53-28
Unit N Sec. 28 Twp. 33N Rge. 4W Pay Zone: From 5250 To 5700
Casing: OD 5 1/2 WT. _____ Set At 5030 Tubing: OD 2 WT. 4.7 T. Perf. 5730
Produced Through: Casing _____ Tubing / Gas Gravity: Measured 690 Estimated _____
Date of Flow Test: From 11-25-57 To 12-3-57 * Date S.I.P. Measured 8-23-57
Meter Run Size _____ Orifice Size 1.5 Type Chart RR 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 (_____) 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 (7.2) ² x sp. const. 10 _____ = 518 psia (g)
Corrected seven day avge. meter press. (p_f) (g) + (e) _____ = _____ psia (h)
P_t = (h) + (f) _____ = 518 psia (i)
Wellhead casing shut-in pressure (Dwt) 1115 psig + 12 = 1127 psia (j)
Wellhead tubing shut-in pressure (Dwt) _____ psig + 12 = _____ psia (k)
P_c = (j) or (k) whichever well flowed through _____ = 1127 psia (l)
Flowing Temp. (Meter Run) 66 °F + 460 _____ = 506 °Abs (m)
P_d = 1/2 P_c = 1/2 (l) _____ = 564 psia (n)

FLOW RATE CALCULATION

Q = 694 X $\left(\frac{\sqrt{(c)}}{\sqrt{(d)}} \right) = \text{_____ MCF/da}$
(integrated)

DELIVERABILITY CALCULATION

D = Q 694 $\left[\frac{(P_c^2 - P_d^2)}{(P_c^2 - P_w^2)} \right]^n = \text{_____ MCF/da.}$
932,033 9699
932,161 (9605) n

SUMMARY

P_c = 1127 psia
Q = 694 Mcf/day
P_w = 518 psia
P_d = 564 psia
D = 673 Mcf/day

Company Continental, Inc.
By D. W. Stiles
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>3954</u>	<u>.250</u>	<u>42,574</u>	<u>10.644</u>	<u>266,324</u>	<u>276,968</u>	<u>528</u>

