

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 San Juan
Purchasing Pipeline El Paso Natural Gas Co Date Test Filed 2/13/56
Operator Blackwood & Nichols Lease NE Blanco Unit Well No. 31-7
Unit N Sec. 7 Twp. 30N Rge. 7W Pay Zone: From _____ To _____
Casing: OD _____ WT. _____ Set At 5269 Tubing: OD 2 WT. _____ T. Perf. 5402
Produced Through: Casing _____ Tubing X Gas Gravity: Measured .640 Estimated _____
Date of Flow Test: From 1/14/56 To 1/23/56 * Date S.I.P. Measured _____
Meter Run Size 4" Orifice Size _____ Type Chart Sq Rt 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 (7.95) ² x sp. const. 10.00 _____ = 632 psia (g)
Corrected seven day avge. meter press. (p_f) (g) + (e) _____ = _____ psia (h)
P_t = (h) + (f) _____ = 632 psia (i)
Wellhead casing shut-in pressure (Dwt) 1104 psig + 12 = 1116 psia (j)
Wellhead tubing shut-in pressure (Dwt) _____ psig + 12 = _____ psia (k)
P_c = (j) or (k) whichever well flowed through _____ = 1116 psia (l)
Flowing Temp. (Meter Run) 80 °F + 460 _____ = 540 °Abs (m)
P_d = ½ P_c = ½ (l) _____ = 558 psia (n)

FLOW RATE CALCULATION

Q = 2096 X $\left(\frac{\sqrt{(c)}}{\sqrt{(d)}} \right) =$ _____ MCF/day
(Integrated)

DELIVERABILITY CALCULATION

D = Q 2096 $\left[\frac{(P_c^2 - P_d^2)}{(P_c^2 - P_w^2)} \right]^n$ 1.1679 = 2450 MCF/day.

SUMMARY

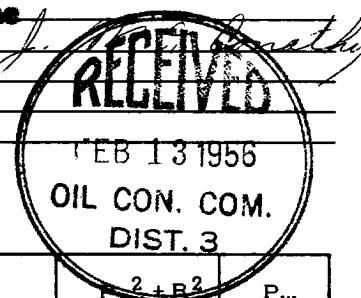
P_c = 1116 psia
Q = 2096 Mcf/day
P_w = 697 psia
P_d = 558 psia
D = 2450 Mcf/day

Company Qualcast, Inc
By H.J. McNamara
Title Agent
Witnessed by _____
Company _____

- * 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>3457</u>	<u>.222</u>	<u>309.009</u>	<u>66.378</u>	<u>399.424</u>	<u>465.802</u>	<u>697</u>



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