

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 Mesaverde Formation Mesaverde County San Juan
Purchasing Pipeline El Paso Natural Gas Co Date Test Filed 6/25/56
Operator McMillan-White Lease Madrox Well No. 21
Unit 1 Sec. 10 Twp. 32N Rge. 11W Pay Zone: From _____ To _____
Casing: OD 5" WT. _____ Set At 9700 Tubing: OD 2 WT. 4.7 T. Perf. 5463
Produced Through: Casing _____ Tubing I Gas Gravity: Measured .670 Estimated _____
Date of Flow Test: From 5/2/56 To 5/8/56 * Date S.I.P. Measured 5/6/56
Meter Run Size 4" Orifice Size _____ Type Chart 21 25 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 (7.55) ² x sp. const. 10.00 _____ = 570 psia (g)
Corrected seven day avge. meter press. (p_f) (g) + (e) _____ = _____ psia (h)
P_t = (h) + (f) _____ = 570 psia (i)
Wellhead casing shut-in pressure (Dwt) 1071 psig + 12 = 1083 psia (j)
Wellhead tubing shut-in pressure (Dwt) 1072 psig + 12 = 1084 psia (k)
P_c = (j) or (k) whichever well flowed through _____ = 1084 psia (l)
Flowing Temp. (Meter Run) 84 °F + 460 _____ = 544 °Abs (m)
P_d = ½ P_c = ½ (l) _____ = 542 psia (n)

Q = 1903 X $\left(\frac{\text{FLOW RATE CALCULATION}}{\sqrt{(c)} = \frac{\sqrt{(d)}}{\sqrt{(d)}}} \right) = \text{_____ MCF/da}$
(integrated)

DELIVERABILITY CALCULATION

D = Q 1903 $\left[\frac{(P_c^2 - P_d^2) = \frac{801,292}{P_c^2 - P_w^2} = \frac{769,307}{P_c^2 - P_w^2} \right]^n \frac{1.1105}{\text{_____}} = \text{_____ MCF/da.}$

SUMMARY

P_c = 1084 psia
Q = 1903 Mcf/day
P_w = 637 psia
P_d = 542 psia
D = 2202 ✓ Mcf/day

Company San Antonio, Inc
By H.J. McCauley H. J. McCauley
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>3660</u>	<u>.206</u>	<u>364,404</u>	<u>68,309</u>	<u>108,90</u>	<u>106,299</u>	<u>637.4</u>



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