

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 South Blanco Formation PC County RA
Purchasing Pipeline EPNG Date Test Filed Sept. 21, 1965
Operator Wagenseller and August Lease Jicarilla Apache Well No. 7
Unit H Sec. 7 Twp 23N Rge. 2W Pay Zone: From 3036 To 3056
Casing: OD 4 1/2 WT. 9.5 Set At 3120 Tubing: OD 2 3/8 WT. 4.7 T. Perf. 3001
Produced Through: Casing _____ Tubing X Gas Gravity: Measured 0.682 Estimated _____
Date of Flow Test: From 8-23-65 To 8-31-65 * Date S.I.P. Measured 5-7-65
Meter Run Size 4.067 Orifice Size 1.000 Type Chart L-10 Type Taps F1

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 (_____) ² x sp. const. _____ = 238 psia (g)
Corrected seven day ave. meter press. (p_f) (g) + (e) _____ = _____ psia (h)
P_t = (h) + (f) _____ = 238 psia (i)
Wellhead casing shut-in pressure (Dwt) 903 psig + 12 = 915 psia (j)
Wellhead tubing shut-in pressure (Dwt) 897 psig + 12 = 909 psia (k)
P_c = (j) or (k) whichever well flowed through _____ = 915 psia (l)
Flowing Temp. (Meter Run) _____ °F + 460 _____ = _____ °Abs (m)
P_d = ~~80% P_c~~ 80% P_c _____ = 732 psia (n)

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

DELIVERABILITY CALCULATION

D = Q 661 $\left[\frac{(P_c^2 - P_d^2)}{(P_c^2 - P_w^2)} \right]^{0.4480} = \frac{301,401}{775,251}^{0.4480} = \frac{0.4480}{(0.3888)} = \text{_____ MCF/da.}$

SUMMARY

P_c = 915 psia
Q = 661 Mcf/day
P_w = 249 psia
P_d = 732 psia
D = 296 Mcf/day

Company Wagenseller and August
By M. B. Jones
Title M. B. Jones, Engineer
Witnessed by _____
Company _____

- * This is date of completion test.
- * Meter error correction factor

REMARKS OR FRICTION CALCULATIONS

GL	(1-e ⁻⁸)	(FcQ) ²	(FcQ) ² (1-e ⁻⁸) R ²	P _t ² (Column i)	P _t ² + R ²	P _w
<u>2047</u>	<u>0.138</u>	<u>38.626</u>	<u>5.330</u>	<u>56,644</u>	<u>61,974</u>	<u>249</u>

Fc = 9.402



