

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 OSERO Formation PICTURED CLIFFS County RIO ARriba
Purchasing Pipeline EL PASO NATURAL GAS COMPANY Date Test Filed 5-7-56
Operator MIKE ABRAHAM Lease JICARILLA Well No. 9
Unit K Sec. 2B Twp. 24N Rge. 5W Pay Zone: From 2190 To 2300
Casing: OD 5-1/2" WT. 14# Set At 2300 Tubing: OD 1" WT. 1.7# T. Perf. 2240
Produced Through: Casing X Tubing _____ Gas Gravity: Measured 0.680 Estimated _____
Date of Flow Test: From 3-23-56 To 3-31-56 * Date S.I.P. Measured 11-9-55
Meter Run Size 4" Orifice Size 1.000 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 (7.75)² x sp. const. 5 = 300 psia (g)
Corrected seven day avg. meter press. (p_f) (g) + (e) = 300 psia (h)
P_t = (h) + (f) = 300 psia (i)
Wellhead casing shut-in pressure (Dwt) 723 psig + 12 = 735 psia (j)
Wellhead tubing shut-in pressure (Dwt) 723 psig + 12 = 735 psia (k)
P_c = (j) or (k) whichever well flowed through = 735 psia (l)
Flowing Temp. (Meter Run) 53 °F + 460 = 513 °Abs (m)
P_d = 1/2 P_c = 1/2 (l) = 368 psia (n)

FLOW RATE CALCULATION

Q = _____ X $\left(\frac{\sqrt{P_c}}{\sqrt{P_d}} \right)^2 =$ _____ MCF/da
(integrated)

DELIVERABILITY CALCULATION

D = Q 289 $\left[\frac{P_c^2 - P_d^2}{P_c^2 - P_w^2} \right]^n =$ 0.934 ²⁶⁴ = 270 MCF/da.

SUMMARY

P_c = 735 psia
Q = 289 Mcf/day
P_w = 300 psia
P_d = 368 psia
D = 270 Mcf/day

Company MIKE ABRAHAM
By Charles E. Doubt
Title Engineer
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
			Friction negligible			

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