

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 AZTEC PICTURED CLIFFS Formation FACTORED CLIFFS County SAN JUAN
Purchasing Pipeline EL PASO NATURAL GAS COMPANY Date Test Filed 3-26-57
Operator FRANK A. SCHULTZ, JR. Well No. 6-16
Unit N Sec. 16 Twp. 29N Rge. 10W Pay Zone: From 2047 To 2127
Casing: OD 5-1/2" WT. 15.5# Set At 2052 Tubing: OD 1" WT. 1.7# T. Perf. 2094
Produced Through: Casing X Tubing _____ Gas Gravity: Measured 0.655 Estimated _____
Date of Flow Test: From 2-20-57 To 2-28-57 * Date S.I.P. Measured 9-27-56
Meter Run Size 4" Orifice Size 1.5" 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 (7.10)² x sp. const. 5 _____ = 252 psia (g)
Corrected seven day avge. meter press. (p_f) (g) + (e) _____ = 252 psia (h)
P_t = (h) + (f) _____ = 252 psia (i)
Wellhead casing shut-in pressure (Dwt) 636 psig + 12 = 648 psia (j)
Wellhead tubing shut-in pressure (Dwt) 636 psig + 12 = 648 psia (k)
P_c = (j) or (k) whichever well flowed through _____ = 648 psia (l)
Flowing Temp. (Meter Run) 60 °F + 460 _____ = 520 °Abs (m)
P_d = 1/2 P_c = 1/2 (l) _____ = 324 psia (n)

FLOW RATE CALCULATION

$$Q = \frac{V(c)}{V(d)} \times \left(\frac{P_c^2 - P_d^2}{P_c^2 - P_w^2} \right)^{1/n} = \text{_____ MCF/day}$$

DELIVERABILITY CALCULATION

$$D = Q \left[\frac{P_c^2 - P_d^2}{P_c^2 - P_w^2} \right]^n = \text{_____ MCF/day}$$

SUMMARY

P_c = 648 psia
Q = 913 Mcf/day
P_w = 252 psia
P_d = 324 psia
D = 822 Mcf/day
Company FRANK A. SCHULTZ, JR.
By Michael J. ...
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			



OK

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