

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 Formation MESA VERDA County SAN JUAN
Purchasing Pipeline EL PASO NATURAL GAS COMPANY Date Test Filed 12-31-1959
Operator FRANK A. SCHULTZ Lease SCHULTZ-STATE Well No. 12-16
Unit M Sec. 16 Twp 27N Rge. 8W Pay Zone: From 4452 To 4602
Casing: OD 5-1/2" WT. 15.5 Set At 4675 Tubing: OD 2-3/8 WT. 4.7 T. Perf. 4581
Produced Through: Casing _____ Tubing X Gas Gravity: Measured 0.701 Estimated _____
Date of Flow Test: From 12-14-59 To 12-22-59 Date S.I.P. Measured August 21, 1959
Meter Run Size 4" Orifice Size 1.750 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 (7.20)² x sp. const. 10 = 518 psia (g)
Corrected seven day avge. meter press. (p_f) (g) + (e) _____ = 518 psia (h)
P_t = (h) + (f) _____ = 518 psia (i)
Wellhead casing shut-in pressure (Dwt) 1069 psig + 12 = 1081 psia (j)
Wellhead tubing shut-in pressure (Dwt) 992 psig + 12 = 1004 psia (k)
P_c = (j) or (k) whichever well flowed through _____ = 1004 psia (l)
Flowing Temp. (Meter Run) 73 °F + 460 _____ = 533 °Abs (m)
P_d = 1/2 P_c = 1/2 (l) _____ = 502 psia (n)

Q = _____ X $\left(\frac{\text{FLOW RATE CALCULATION}}{\frac{V(c)}{V(d)}} \right)^* = \text{_____ MCF/day}$
(integrated)

DELIVERABILITY CALCULATION

D = Q 958 $\left[\frac{P_c^2 - P_d^2}{P_c^2 - P_w^2} \right]^n = \text{_____ MCF/day}$
756,000 1.034 991
723,000

SUMMARY

P_c = 1004 psia
Q = 958 Mcf/day
P_w = 534 psia
P_d = 502 psia
D = 991 Mcf/day

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

FRANK A. SCHULTZ
Company El Paso Natural Gas Co.
By Frank A. Schultz
Title Engineer
Witnessed by _____
Company _____

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
3211	0.208	81130	16880	268,324	285,204	534

