

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 Verde County San Juan
Purchasing Pipeline EL PASO NATURAL GAS COMPANY Date Test Filed _____

Operator El Paso Natural Gas Company Lease San Juan 32-9 Unit Well No. 19
Unit H Sec. 17 Twp. 31 Rge. 9 Pay Zone: From 5253 To 5790
Casing: OD 7 WT. 23 Set At 5198 Tubing: OD 2 WT. 4.7 T. Perf. 5270
Produced Through: Casing X Tubing _____ Gas Gravity: Measured .617 Estimated _____
Date of Flow Test: From 9-29 To 10-7-58 * Date S.I.P. Measured 11-8-57 (7)
Meter Run Size _____ Onifice Size .750 Type Chart _____ Type Taps _____

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 (6.75)² x sp. const. 10 _____ = 456 psia (g)
Corrected seven day avge. meter press. (p_f) (g) + (e) _____ = 456 psia (h)
P_t = (h) + (f) _____ = 456 psia (i)
Wellhead casing shut-in pressure (Dwt) 901 psig + 12 = 913 psia (j)
Wellhead tubing shut-in pressure (Dwt) 854 psig + 12 = 866 psia (k)
P_c = (j) or (k) whichever well flowed through _____ = 913 psia (l)
Flowing Temp. (Meter Run) 60 °F + 460 _____ = 520 °Abs (m)
P_d = ½ P_c = ½ (l) _____ = 457 psia (n)

FLOW RATE CALCULATION

$$Q = \text{(Integrated)} \times \left(\frac{\sqrt{(c)}}{\sqrt{(d)}} \right) = \frac{453}{1} = 453 \text{ MCF/da}$$

DELIVERABILITY CALCULATION

$$D = Q \frac{453}{\left[\frac{P_c^2 - P_d^2}{P_c^2 - P_w^2} \right]^{.9985}} = \frac{453}{\left[\frac{624720}{625633} \right]^{.9989}} = 453 \text{ MCF/da.}$$

SUMMARY

P_c = 913 psia
Q = 453 Mcf/day
P_w = 456 psia
P_d = 457 psia
D = 453 Mcf/day

Company EL PASO NATURAL GAS COMPANY

By Original Signed

Title Harold L. Kendrick

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			

D500 = 423

Tubing perforated 9/15/58