

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 PC Formation Pictured Cliffs County San Juan
Purchasing Pipeline El Paso Natural Gas Date Test Filed _____
Operator El Paso Natural Gas Lease Jicarilla Well No. 10-J
Unit 18 Sec. 18 Twp. 26 Rge. 5 Pay Zone: From 3006 To 3070
Casing: OD 5-1/2 WT. 15.5 Set At 3119 Tubing: OD 1-1/4 WT. 4.7 T. Perf. 3041
Produced Through: Casing X Tubing _____ Gas Gravity: Measured .695 Estimated _____
Date of Flow Test: From 1/16 To 1/24/58 * Date S.I.P. Measured 12/24/57 (54 days)
Meter Run Size _____ Orifice Size _____ 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 (8.95) ² x sp. const. 5 _____ = 401 psia (g)
Corrected seven day avge. meter press. (p_f) (g) + (e) _____ = 401 psia (h)
P_t = (h) + (f) _____ = 401 psia (i)
Wellhead casing shut-in pressure (Dwt) 1016 psig + 12 = 1028 psia (j)
Wellhead tubing shut-in pressure (Dwt) 1016 psig + 12 = 1028 psia (k)
P_c = (j) or (k) whichever well flowed through _____ = 1028 psia (l)
Flowing Temp. (Meter Run) 50 °F + 460 _____ = 510 °Abs (m)
P_d = 1/2 P_c = 1/2 (l) _____ = 514 psia (n)

FLOW RATE CALCULATION

$$Q = \frac{V(c)}{V(d)} \times \left(\frac{P_c^2 - P_d^2}{P_c^2 - P_w^2} \right)^{1/2} = 180 \text{ MCF/day}$$

DELIVERABILITY CALCULATION

$$D = Q \times \left[\frac{P_c^2 - P_d^2}{P_c^2 - P_w^2} \right]^n = 162 \text{ MCF/day}$$

SUMMARY

P_c = 1028 psia
Q = 180 Mcf/day
P_w = 401 psia
P_d = 514 psia
D = 162 Mcf/day
Company El Paso Natural Gas
By L. H. Galloway
Title _____
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
			FRICION NEGLIGIBLE			

162 D at 250 = 195

