

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 Ballard Formation Pictured Cliffs County San Juan
Purchasing Pipeline El Paso Natural Gas Company Date Test Filed _____

Operator El Paso Natural Gas Company Lease McConnell Well No. 6
Unit A Sec. 25 Twp. 26 Rge. 9 Pay Zone: From 1914 To 1959
Casing: OD 5½ WT. 15.5 Set At 2040 Tubing: OD 2 WT. 4.7 T. Perf. 1870
Produced Through: Casing I Tubing _____ Gas Gravity: Measured 675 Estimated _____
Date of Flow Test: From 11/22/56 To 11/30/56 * Date S.I.P. Measured 9/11/56 (8 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 (7.50) ² x sp. const. 5 _____ = 281 psia (g)
Corrected seven day avge. meter press. (p_f) (g) + (e) _____ = 281 psia (h)
P_t = (h) + (f) _____ = 281 psia (i)
Wellhead casing shut-in pressure (Dwt) 613 psig + 12 = 625 psia (j)
Wellhead tubing shut-in pressure (Dwt) 613 psig + 12 = 625 psia (k)
P_c = (j) or (k) whichever well flowed through _____ = 625 psia (l)
Flowing Temp. (Meter Run) 65 °F + 460 _____ = 525 °Abs (m)
P_d = ½ P_c = ½ (l) _____ = 313 psia (n)

FLOW RATE CALCULATION

$$Q = \text{(integrated)} \times \left(\frac{V(c)}{V(d)} \right)^* = \underline{1594} \text{ MCF/da}$$

DELIVERABILITY CALCULATION

$$D = Q \underline{1594} \left[\frac{P_c^2 - P_d^2}{P_c^2 - P_w^2} \right]^n = \underline{1514} \text{ MCF/da.}$$

SUMMARY

P_c = 625 psia
Q = 1594 Mcf/day
P_w = 282 psia
P_d = 313 psia
D = 1514 Mcf/day

Company El Paso Natural Gas Company
By L.D. Galloway
Title Sr. Gas 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
1292	.090	7.317	659	78961	79620	282

D @ 250 = 1639



