

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. 4
Unit K Sec. 24 Twp. 26 Rge. 9 Pay Zone: From 1972 To 2046
Casing: OD 5 1/2 WT. 15.5 Set At 2058 Tubing: OD 2 WT. 4.7 T. Perf. 1945
Produced Through: Casing X Tubing _____ Gas Gravity: Measured 670 Estimated _____
Date of Flow Test: From 11/22/56 To 11/30/56 * Date S.I.P. Measured 6/5/56
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 (7.60) ² x sp. const. 5 _____ = 289 psia (g)
Corrected seven day avge. meter press. (pf) (g) + (e) _____ = 289 psia (h)
P_t = (h) + (f) _____ = 289 psia (i)
Wellhead casing shut-in pressure (Dwt) 646 psig + 12 = 658 psia (j)
Wellhead tubing shut-in pressure (Dwt) 646 psig + 12 = 658 psia (k)
P_c = (j) or (k) whichever well flowed through _____ = 658 psia (l)
Flowing Temp. (Meter Run) 65 °F + 460 _____ = 525 °Abs (m)
P_d = 1/2 P_c = 1/2 (l) _____ = 329 psia (n)

Q = _____ X $\left(\frac{\text{FLOW RATE CALCULATION}}{\frac{\sqrt{(c)}}{\sqrt{(d)}}} \right)^* = \underline{1527} \text{ MCF/da}$
(integrated)

DELIVERABILITY CALCULATION

D = Q 1527 $\left[\frac{(P_c^2 - P_d^2)}{(P_c^2 - P_w^2)} \right]^n = \underline{1137} \text{ MCF/da.}$
324,723 .9309
348,825 .9409

SUMMARY

P_c = 658 psia Company El Paso Natural Gas Company
Q = 1527 Mcf/day By L.D. Galloway
P_w = 290 psia Title Sr. Gas Engineer
P_d = 329 psia Witnessed by _____
D = 1137 Mcf/day 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
1321	.092	6.713	618	83521	84139	290

D @ 250 = 1582



