

NEW MEXICO OIL CONSERVATION COMMISSION
GAS WELL TEST DATA SHEET -- SAN JUAN BASIN

(TO BE USED FOR FRUITLAND, PICTURED CLIFFS, MESAVERDE, & ALL DARTON
EXCEPT BARKER WIDE STORAGE AREA)

Pool South Hanco FC Formation Pictured Cliffs County El Paso
Purchasing Pipeline El Paso Natural Gas Date Test Filed _____
Operator El Paso Natural Gas Lease El Paso Well No. 1-4
Unit B Sec. 31 Twp. 26 Rge. 6 Pay Zone: From 2300 To 2344
Casing: OD 5-1/2 WT. 15.5 Set At 2435 Tubing: OD 1-1/4 WT. 2.3 T. Perf. 2200
Produced Through: Casing _____ Tubing I Gas Gravity: Measured .674 Estimated _____
Date of Flow Test: From 12-31-57 To 1-9-58 * Date S.I.P. Measured 6-10-57
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 (7.38) ² x sp. const. 5 _____ = 270 psia (g)
Corrected seven day ave. meter press. (p_f) (g) + (e) _____ = 270 psia (h)
P_t = (h) + (f) _____ = 270 psia (i)
Wellhead casing shut-in pressure (Dwt) 833 psig + 12 = 845 psia (j)
Wellhead tubing shut-in pressure (Dwt) 833 psig + 12 = 845 psia (k)
P_c = (j) or (k) whichever well flowed through _____ = 845 psia (l)
Flowing Temp. (Meter Run) 45 °F + 460 _____ = 505 °Abs (m)
P_d = 1/2 P_c = 1/2 (l) _____ = 423 psia (n)

FLOW RATE CALCULATION

Q = _____ X $\left(\frac{\sqrt{(c)}}{\sqrt{(d)}} \right) = \underline{373}$ MCF/day
(integrated)

DELIVERABILITY CALCULATION

D = Q 373 $\left[\frac{(P_c^2 - P_d^2)}{(P_c^2 - P_w^2)} \right]^{.8465} = \underline{324}$ MCF/day
 $\frac{.8465}{.8679}$

SUMMARY

P_c = 845 psia
Q = 373 Mcf/day
P_w = 286 psia
P_d = 423 psia
D = 324 Mcf/day

Company El Paso Natural Gas
By J. H. Hendricks
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})	P _t ² (Column 1)	P _t ² + R ²	P _w
			R ²			
1549	.107	84.327	9.083	72,900	81,983	286

D at 230 = 379



