

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 East Elmore Formation Pictured Cliff County Elm Arriba
Purchasing Pipeline El Paso Natural Gas Company Date Test Filed _____
Operator El Paso Natural Gas Company Lease San Juan 30-A West Well No. 14
Unit A Sec. 21 Twp. 30 Rge. 4 Pay Zone: From 4025 To 4512
Casing: OD 9 5/8 WT. 15.9 Set At 4568 Tubing: OD 2 WT. 4.7 T. Perf. 4392
Produced Through: Casing _____ Tubing X Gas Gravity: Measured .615 Estimated _____
Date of Flow Test: From 11/30/56 To 11/30/56 * Date S.I.P. Measured 6/14/56 (10 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 (7.40) ² x sp. const. 10 _____ = _____ 948 psia (g)
Corrected seven day avge. meter press. (p_f) (g) + (e) _____ = _____ 948 psia (h)
P_t = (h) + (f) _____ = _____ 948 psia (i)
Wellhead casing shut-in pressure (Dwt) 1163 psig + 12 = _____ 1163 psia (j)
Wellhead tubing shut-in pressure (Dwt) 1101 psig + 12 = _____ 1163 psia (k)
P_c = (j) or (k) whichever well flowed through _____ = _____ 1163 psia (l)
Flowing Temp. (Meter Run) 67 °F + 460 _____ = _____ 987 °Abs (m)
P_d = ½ P_c = ½ (l) _____ = _____ 943 psia (n)

FLOW RATE CALCULATION

Q = _____ X $\left(\frac{\frac{V(c)}{V(d)}}{\frac{V(c)}{V(d)}} \right)^* = \underline{1457}$ MCF/da
(integrated)

DELIVERABILITY CALCULATION

D = Q 1457 $\left[\frac{P_c^2 - P_d^2}{P_c^2 - P_w^2} \right]^n = \underline{.9935}$ = 2449 MCF/da.
1.027,336
1.432,092
.9945

SUMMARY

P_c = 1163 psia Company El Paso Natural Gas Company
Q = 1457 Mcf/day By E. R. Galloway
P_w = 977 psia Title Dr. Gas Engineer
P_d = 943 psia Witnessed by _____
D = 2449 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
<u>260</u>	<u>.176</u>	<u>187.443</u>	<u>33.409</u>	<u>302.394</u>	<u>335.803</u>	<u>977</u>

D @ 250 = 1784



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THIS IS TO BE USED FOR REPORT AND PICTURED CLIPPER, MESS, AND ALL DAKOTA
EXCEPT BARKER COME STORAGE A BAY

Pool: San Juan Location: San Juan County: San Juan
Purchased: San Juan San Juan San Juan
Operator: San Juan San Juan San Juan
Well No.: San Juan San Juan San Juan
Date: San Juan San Juan San Juan
Time: San Juan San Juan San Juan
Pressure: San Juan San Juan San Juan
Temperature: San Juan San Juan San Juan
Rate of Flow: San Juan San Juan San Juan
Notes: San Juan San Juan San Juan

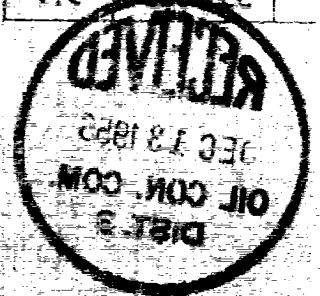
(a) San Juan San Juan San Juan
(b) San Juan San Juan San Juan
(c) San Juan San Juan San Juan
(d) San Juan San Juan San Juan
(e) San Juan San Juan San Juan
(f) San Juan San Juan San Juan
(g) San Juan San Juan San Juan
(h) San Juan San Juan San Juan
(i) San Juan San Juan San Juan
(j) San Juan San Juan San Juan
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D 220 = 124