

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 Blanco Formation Mont Verde County Rio Arriba
Purchasing Pipeline El Paso Natural Gas Company Date Test Filed _____

Operator El Paso Natural Gas Company Lease San Juan 25-5 Unit Well No. 17
Unit 8 Sec. 20 Twp. 28 Rge. 5 Pay Zone: From 5342 To 5864
Casing: OD 5-1/2 WT. 15-1/2 Set At 5916 Tubing: OD 2 WT. 4.7 T. Perf. 5838
Produced Through: Casing _____ Tubing X Gas Gravity: Measured 690 Estimated _____
Date of Flow Test: From 7-16-57 To 7-24-57 * Date S.I.P. Measured 6-13-57 (8 days)
Meter Run Size 4 Orifice Size -- Type Chart sq. rt. Type Taps F

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 (7.45) ² x sp. const. 10 = 533 psia (g)
Corrected seven day avg. meter press. (p_f) (g) + (e) = 533 psia (h)
P_t = (h) + (f) = 533 psia (i)
Wellhead casing shut-in pressure (Dwt) 1064 psig + 12 = 1076 psia (j)
Wellhead tubing shut-in pressure (Dwt) 1099 psig + 12 = 1071 psia (k)
P_c = (j) or (k) whichever well flowed through = 1071 psia (l)
Flowing Temp. (Meter Run) 60 °F + 460 = 520 °Abs (m)
P_d = 1/2 P_c = 1/2 (l) = 536 psia (n)

FLOW RATE CALCULATION

Q = _____ X $\left(\frac{\sqrt{(c)}}{\sqrt{(d)}} \right) = \underline{966}$ MCF/da
(Integrated)

DELIVERABILITY CALCULATION

D = Q 966 $\left[\frac{(P_c^2 - P_d^2)}{(P_c^2 - P_w^2)} \right]^n = \underline{1003}$ MCF/da.
 $\frac{899,745}{818,065}$ $\frac{1.0509}{1.0380}$

SUMMARY

P_c = 1071 psia
Q = 966 Mcf/day
P_w = 574 psia
P_d = 536 psia
D = 1003 Mcf/day

Company EL PASO NATURAL GAS COMPANY
By _____
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 R ²	(1-e ^{-s}) Pt ² (Column 1)	P _w
<u>4038</u>	<u>.254</u>	<u>82.483</u>	<u>20.951</u>	<u>300.000</u>	<u>574</u>

D at 500 = 1003

OK

