

Initial Deliverability
Test

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 12-1-57 Formation Pictured Cliff County San Juan
Purchasing Pipeline El Paso Natural Gas Company Date Test Filed _____
Operator El Paso Natural Gas Lease Huerfano Unit Well No. 78
Unit P E Sec. 31 Twp. 27N Rge. 10W Pay Zone: From 1658 To 1696
Casing: OD 5 1/2 WT. 15.5 Set At 1795 Tubing: OD 1 1/4 WT. 2.3 T. Perf. 1680
Produced Through: Casing X Tubing _____ Gas Gravity: Measured .650 Estimated _____
Date of Flow Test: From 4/9 To 4/17/57 * Date S.I.P. Measured 8/29/56
Meter Run Size 4 Orifice Size 1.500 Type Chart Sq. Rt. Type Taps Flange

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 (6.15) ² x sp. const. 500 = 189 psia (g)
Corrected seven day avge. meter press. (p_f) (g) + (e) _____ = 189 psia (h)
P_t = (h) + (f) _____ = 189 psia (i)
Wellhead casing shut-in pressure (Dwt) 420 psig + 12 = 432 psia (j)
Wellhead tubing shut-in pressure (Dwt) 420 psig + 12 = 432 psia (k)
P_c = (j) or (k) whichever well flowed through _____ = 432 psia (l)
Flowing Temp. (Meter Run) 62 °F + 460 _____ = _____ °Abs (m)
P_d = 1/2 P_c = 1/2 (l) _____ = 216 psia (n)

FLOW RATE CALCULATION

Q = 948 X $\left(\frac{\sqrt{(c)} - \sqrt{(d)}}{\sqrt{(c)}} \right) =$ _____ MCF/da
(Integrated)

DELIVERABILITY CALCULATION

D = Q 948 $\left[\frac{(P_c^2 - P_d^2)}{(P_c^2 - P_w^2)} \right]^n =$ 889 MCF/da.
139,968 .9275
150,903 .9380

SUMMARY

P_c = 432 psia
Q = 948 Mcf/day
P_w = 189 psia
P_d = 216 psia
D = 889 Mcf/day

Company El Paso Natural Gas Company
By Original Signed
Title Lewis D. Galloway
Witnessed by _____
Company _____

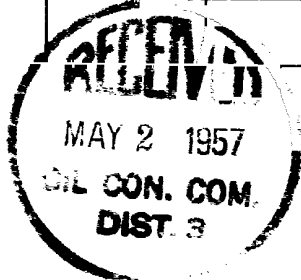
- * This is date of completion test.
- * Meter error correction factor

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
FRICTION NEGLECTED						

D @ 250 = 769

OIL



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