

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 SOUTH BLANCO Formation PICTURED CLIFF County R.A.
Purchasing Pipeline EL PASO NATURAL GAS CO. Date Test Filed 11/6/57
Operator R & G DRILLING CO. INC. Lease HARRON Well No. 39
Unit K Sec. 23 Twp. 27N Rge. 8W Pay Zone: From 2105 To 2160
Casing: OD 5 1/2 WT. X Set At 2226 Tubing: OD WT. T. Perf.
Produced Through: Casing Tubing Gas Gravity: Measured .655 Estimated
Date of Flow Test: From To * Date S.I.P. Measured 3/25/57
Meter Run Size 4" Orifice Size 1.500 Type Chart SR Type Taps FLANSK

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 7.15 psig + 12 = 256 psia (g)
Square root chart average reading () ² x sp. const. 500 = 256 psia (g)
Corrected seven day avge. meter press. (p_f) (g) + (e) = 256 psia (h)
P_t = (h) + (f) = 256 psia (i)
Wellhead casing shut-in pressure (Dwt) 825 psig + 12 = 837 psia (j)
Wellhead tubing shut-in pressure (Dwt) psig + 12 = 837 psia (k)
P_c = (j) or (k) whichever well flowed through = 837 psia (l)
Flowing Temp. (Meter Run) 59 °F + 460 = 519 ° Abs (m)
P_d = 1/2 P_c = 1/2 (l) = 418 psia (n)

FLOW RATE CALCULATION

Q = X $\left(\frac{\sqrt{(c)}}{\sqrt{(d)}} \right) = \text{_____ MCF/da}$
(integrated)

DELIVERABILITY CALCULATION

D = Q 607 $\left[\frac{(P_c^2 - P_d^2)}{(P_c^2 - P_w^2)} \right]^n = \text{_____ MCF/da.}$
525,845 .8519 517

SUMMARY

P_c = 837 psia
Q = 607 Mcf/day
P_w = 256 psia
P_d = 418 psia
D = 517 Mcf/day

Company GELECTRIC, INC.
By B H KEYES
Title AGENT
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

