

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 Astee Formation P. G. County San Juan
Purchasing Pipeline El Paso Natural Gas Co. Date Test Filed May 22, 1957

Operator Tennessee Gas Trans. Co. Lease Nancy Ann Johnson Well No. 1
Unit J Sec. 2 Twp. 30 N Rge. 11 W Pay Zone: From _____ To _____
Casing: OD 5 1/2 WT. _____ Set At 2315 Tubing: OD _____ WT. _____ T. Perf. _____
Produced Through: Casing I Tubing _____ Gas Gravity: Measured 6.65 Estimated _____
Date of Flow Test: From 4-24 To 4-31 * Date S.I.P. Measured _____
Meter Run Size 4" Orifice Size 1.4500 Type Chart SR Type Taps F1

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 (7.00)² x sp. const. 5.00 _____ = 245 psia (g)
Corrected seven day avge. meter press. (p_f) (g) + (e) _____ = _____ psia (h)
P_t = (h) + (f) _____ = 245 psia (i)
Wellhead casing shut-in pressure (Dwt) 700 psig + 12 = 712 psia (j)
Wellhead tubing shut-in pressure (Dwt) 705 psig + 12 = 717 psia (k)
P_c = (j) or (k) whichever well flowed through _____ = 712 psia (l)
Flowing Temp. (Meter Run) 55 °F + 460 _____ = 515 °Abs (m)
P_d = 1/2 P_c = 1/2 (l) _____ = 356 psia (n)

FLOW RATE CALCULATION

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

DELIVERABILITY CALCULATION

$$D = Q \times \left[\frac{(P_c^2 - P_d^2)}{(P_c^2 - P_w^2)} \right]^n = \text{_____ MCF/da.}$$

SUMMARY

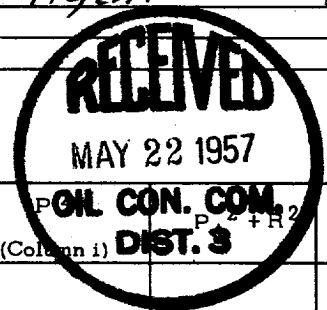
P_c = 712 psia
Q = 333 Mcf/day
P_w = 245 psia
P_d = 356 psia
D = 295 Mcf/day

Company Geolestria, Inc
By R. H. Hayes
Title Asst. 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 _c ² + R ² (Column i)	P _w



OIL CONSERVATION COMMISSION

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