

3 NMCC
1 El Paso
1 Case
1 File

Initial Deliverability
Test

Form C-122-A
Revised April 20, 1955

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 Astec Formation Fruitland County San Juan
Purchasing Pipeline El Paso Natural Gas Co. Date Test Filed 3-24-59
Operator Paul Case Lease Sullivan Well No. 4
Unit L Sec. 24 Twp. 29N Rge. 11W Pay Zone: From 1574 To 1574
Casing: OD 5-1/2" WT. 14 1/2 Set At 1810 Tubing: OD 1-1/4 WT. 2.4 T. Perf. --
Produced Through: Casing X Tubing _____ Gas Gravity: Measured 0.676 Estimated _____
Date of Flow Test: From _____ To _____ * Date S.I.P. Measured _____
Meter Run Size 4" Orifice Size 0.750" Type Chart S.R. 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 (7.15)² x sp. const. 5 _____ = 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) 622 psig + 12 = 634 psia (j)
Wellhead tubing shut-in pressure (Dwt) --- psig + 12 = --- psia (k)
P_c = (j) or (k) whichever well flowed through _____ = 634 psia (l)
Flowing Temp. (Meter Run) 47 °F + 460 _____ = 507 °Abs (m)
P_d = 1/2 P_c = 1/2 (l) _____ = 317 psia (n)

Q = _____ X $\left(\frac{\text{FLOW RATE CALCULATION}}{\frac{\sqrt{(c)}}{\sqrt{(d)}}} \right)^* = \text{_____ MCF/day}$
(integrated)

DELIVERABILITY CALCULATION

D = Q 192 $\left[\frac{(P_c^2 - P_d^2) = \text{301,467}}{(P_c^2 - P_w^2) = \text{336,420}} \right]^n \cdot \text{0.95} \cdot \text{0.9110} = \text{175 MCF/day}$

SUMMARY

P_c = 634 psia Company Paul Case
Q = 192 Mcf/day By A. H. Hugo
P_w = 256 psia Title Consulting Engineer
P_d = 317 psia Witnessed by _____
D = 175 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 |
|----|----------------------|---------------------------------|--|---|--|----------------|
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