

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 Otero Chacra Formation Chacra County Rio Arriba
Purchasing Pipeline El Paso Natural Gas Co. Date Test Filed 3-29-56

Operator Amerada Lease J. Apache "7" Well No. 2
Unit B 1 Sec. 17 Twp. 25 Rge. 5 Pay Zone: From 3954 To 3716
Casing: OD 5-1/2 WT. 15.5 Set At 3790 Tubing: OD 2-3/8 WT. 4.16 T. Perf. 3483
Produced Through: Casing Tubing X Gas Gravity: Measured X Estimated .640
Date of Flow Test: From June 10 To June 17 * Date S.I.P. Measured June 17
Meter Run Size 4" Orifice Size 1-1/2" Type Chart SB-10-E Type Taps Flg.

OBSERVED DATA

Flowing casing pressure (Dwt) _____ psig + 12 = _____ psia (a)
Flowing tubing pressure (Dwt) _____ psig + 12 = 333 psia (b)
Flowing meter pressure (Dwt) _____ psig + 12 = 320 psia (c)
Flowing meter pressure (meter reading when Dwt. measurement taken:
Normal chart reading _____ psig + 12 = _____ psia (d)
Square root chart reading (8)² x spring constant 2 = 320 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 _____ = 13 psi (f)
Seven day average static meter pressure (from meter chart):
Normal chart average reading _____ psig + 12 = _____ psia (g)
Square root chart average reading (8)² x sp. const. 5 = 320 psia (g)
Corrected seven day avge. meter press. (p_f) (g) + (e) _____ = 320 psia (h)
P_t = (h) + (f) _____ = 333 psia (i)
Wellhead casing shut-in pressure (Dwt) _____ psig + 12 = _____ psia (j)
Wellhead tubing shut-in pressure (Dwt) 744 psig + 12 = 756 psia (k)
P_c = (j) or (k) whichever well flowed through _____ = 756 psia (l)
Flowing Temp. (Meter Run) 65 °F + 460 _____ = 525 °Abs (m)
P_d = 1/2 P_c = 1/2 (l) _____ = 378 psia (n)

Q = 812 X $\left(\frac{\text{FLOW RATE CALCULATION}}{\sqrt{(c)} = \frac{320}{320} = 1} \right)^* = \underline{812} MCF/day
(integrated)$

DELIVERABILITY CALCULATION

D = Q 812 $\left[\frac{(P_c^2 - P_d^2)}{(P_c^2 - P_w^2)} \right]^n = \underline{776} MCF/day
516,460
548,455$

SUMMARY

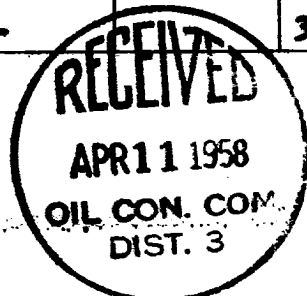
P_c = 756 psia
Q = 812 Mcf/day
P_w = 333 psia
P_d = 378 psia
D = 776 (slide rule accuracy) Mcf/day

Company Amerada Petroleum Corporation
By N.C. Kell
Title District Engineer
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
2300	0.194	58.2	8.97(negligible)	-		333



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