

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 Otero Chacra Formation Chacra County Rio Arriba
Purchasing Pipeline El Paso Nat'l Gas Co. Date Test Filed 2-25-58
Operator Amerada Pet. Corp. Lease J. Apacino "F" Well No. 3005
Unit J Sec. 16 Twp. 29N Rge. 9W Pay Zone: From 3721' To 3840'
Casing: OD 5.5" WT. 13.5 Set At 3976' Tubing: OD 2 3/8" WT. 4.7 T. Perf. 3742'
Produced Through: Casing Tubing X Gas Gravity: Measured 0.600 Estimated X
Date of Flow Test: From 12-31-57 To 1-4-58 * Date S.I.P. Measured 1-16-58
Meter Run Size 4" Orifice Size 0.50 Type Chart L-10 Type Taps Flange
Sp. Con. =

OBSERVED DATA

Flowing casing pressure (Dwt) _____ psig + 12 = _____ psia (a)
Flowing tubing pressure (Dwt) _____ psig + 12 = 369 psia (b)
Flowing meter pressure (Dwt) _____ psig + 12 = 368 psia (c)
Flowing meter pressure (meter reading when Dwt. measurement taken:
Normal chart reading _____ psig + 12 = _____ psia (d)
Square root chart reading (8.95) ² x spring constant 5 = 366 psia (d)
Meter error (c) - (d) or (d) - (c) _____ ± _____ psi (e)
Friction loss, Flowing column to meter: _____ = 1 psi (f)
(b) - (c) Flow through tubing; (a) - (c) Flow through casing
Seven day average static meter pressure (from meter chart):
Normal chart average reading _____ psig + 12 = _____ psia (g)
Square root chart average reading (8.6) ² x sp. const. 5 = 370 psia (g)
Corrected seven day avge. meter press. (p_f) (g) + (e) = 372 psia (h)
P_t = (h) + (f) = 373 ~~377~~ psia (i)
Wellhead casing shut-in pressure (Dwt) _____ psig + 12 = _____ psia (j)
Wellhead tubing shut-in pressure (Dwt) 840 psig + 12 = 852 psia (k)
P_c = (j) or (k) whichever well flowed through = 852 psia (l)
Flowing Temp. (Meter Run) 35 °F + 460 = 495 °Abs (m)
P_d = 1/2 P_c = 1/2 (l) = 426 psia (n)

Q = 76 X $\left(\frac{\text{FLOW RATE CALCULATION}}{\frac{\sqrt{(c)}}{\sqrt{(d)}}} = \frac{\sqrt{368}}{\sqrt{366}} = 1.0005 \right) = \underline{76} MCF/da
(Integrated)$

DELIVERABILITY CALCULATION

D = Q 76 $\left[\frac{P_c^2 - P_d^2}{P_c^2 - P_w^2} \right]^n = \underline{0.9446} = \underline{72} MCF/da.$

SUMMARY

P_c = 852 psia
Q = 76 Mcf/day
P_w = 377 373 psia
P_d = 426 psia
D = 72 Mcf/day

Company Amerada Petroleum Corporation
By D. F. Furne
Title Foreman
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
<u>2545</u>	<u>0.169</u>	<u>0.911</u>	<u>0.086</u>	<u>342129</u>	<u>342129</u>	<u>373</u> <u>377</u>

P_c = 9.482
N = 0.75



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