

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 Blanco Pictured Cliffs Formation P.C. County Rio Arriba
Purchasing Pipeline El Paso Natural Gas Co. Date Test Filed 3-29-58

Operator Amerada Pet. Corp. Lease J. Apache "F" Well No. 2
Unit D Sec. 17 Twp. 25 Rge. 5 Pay Zone: From 2721 To 2784
Casing: OD 5-1/2 WT. 15.5 Set At 3790 Tubing: OD 2-3/8 WT. 4.6 T. Perf. Pkr.
Produced Through: Casing x Tubing _____ Gas Gravity: Measured x Estimated .630
Date of Flow Test: From June 10 To June 17 * Date S.I.P. Measured June 17, 1957
Meter Run Size 4" Orifice Size 1/2 Type Chart SR-10E Type Taps Flg.

OBSERVED DATA

Flowing casing pressure (Dwt) _____ psig + 12 = 330 psia (a)
Flowing tubing pressure (Dwt) _____ psig + 12 = _____ 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 5 = 320 psia (d)
Meter error (c) - (d) or (d) - (c) _____ ± _____ = 0 psi (e)
Friction loss, Flowing column to meter: _____ = _____ 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)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) = 330 psia (i)
Wellhead casing shut-in pressure (Dwt) 787 psig + 12 = 799 psia (j)
Wellhead tubing shut-in pressure (Dwt) _____ psig + 12 = _____ psia (k)
P_c = (j) or (k) whichever well flowed through = 799 psia (l)
Flowing Temp. (Meter Run) 65 °F + 460 = 525 °Abs (m)
P_d = 1/2 P_c = 1/2 (l) = 399.5 psia (n)

Q = 61 X $\left(\frac{\sqrt{(c)} = \underline{320} = \underline{1}}{\sqrt{(d)} = \underline{320}} \right)^2 = \underline{61} MCF/day
(integrated)$

DELIVERABILITY CALCULATION

D = Q 61 $\left[\frac{(P_c^2 - P_d^2)}{(P_c^2 - P_w^2)} \right]^n = \underline{61} \cdot \underline{.918} = \underline{56} MCF/day$

SUMMARY

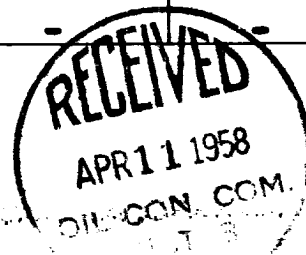
P_c = 799 psia
Q = 61 Mcf/day
P_w = 330 psia
P_d = 399.5 psia
D = 56 (slide rule accuracy) Mcf/day

Company Amerada Petroleum Corporation
By H. C. [Signature]
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
<u>1715</u>	<u>0.117</u>	<u>.0104</u>	<u>0.00122 (negligible)</u>	-	-	<u>330</u>



OK

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