

Initial Deliverability
TestForm C-122-A
Revised April 20, 1955NEW 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 Chaco Formation Pictured Cliffs County San Juan
Purchasing Pipeline E. Paso Natural Gas Company Date Test Filed 2-4-58
Operator Palco Petroleum Corporation Lease Chaco Well No. 1
Unit 1 Sec. 14 Twp. 34N Rge. 6W Pay Zone: From 9100 To 9160
Casing: OD 5 1/2 WT. 14 Set At 2800 Tubing: OD 1" WT. 3.7 T. Perf. 9115
Produced Through: Casing _____ Tubing X Gas Gravity: Measured .675 Estimated _____
Date of Flow Test: From 1-16-58 To 1-23-58 * Date S.I.P. Measured 10-23-57
Meter Run Size 1" Orifice Size 3/4 Type Chart No. 15 Type Taps Flange

OBSERVED DATA

Flowing casing pressure (Dwt) 297 psig + 12 = 309 psia (a)
Flowing tubing pressure (Dwt) 289 psig + 12 = 301 psia (b)
Flowing meter pressure (Dwt) 289 psig + 12 = 301 psia (c)
Flowing meter pressure (meter reading when Dwt. measurement taken:
Normal chart reading _____ psig + 12 = _____ psia (d)
Square root chart reading (6.96)² x spring constant 5 = 248 psia (d)
Meter error (c) - (d) or (d) - (c) ± = 1 psi (e)
Friction loss, Flowing column to meter: _____ = 0 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 (7.15)² x sp. const. 5 = 256 psia (g)
Corrected seven day avge. meter press. (p_f) (g) + (e) = 255 psia (h)
P_t = (h) + (f) = 255 psia (i)
Wellhead casing shut-in pressure (Dwt) 695 psig + 12 = 707 psia (j)
Wellhead tubing shut-in pressure (Dwt) 695 psig + 12 = 707 psia (k)
P_c = (j) or (k) whichever well flowed through = 707 psia (l)
Flowing Temp. (Meter Run) 62 °F + 460 = 522 °Abs (m)
P_d = 1/2 P_c = 1/2 (l) = 354 psia (n)

FLOW RATE CALCULATION

Q = 198 X $\left(\frac{\sqrt{(c)} = \underline{15.58417} = .99795}{\sqrt{(d)} = \underline{15.55635}} \right) = \underline{198} MCF/day
(integrated)$

DELIVERABILITY CALCULATION

D = Q 198 $\left[\frac{P_c^2 - P_d^2}{P_c^2 - P_w^2} \right]^n \frac{.85}{(.88132)^{.85}} \frac{8979}{1} = \underline{178} MCF/day$

SUMMARY

P_c = 707 psia
Q = 198 Mcf/day
P_w = 274 psia
P_d = 354 psia
D = 178 Mcf/day

Company Palco Petroleum Corporation
By E. L. Russell, Jr.
Title Gen. Mgr.
Witnessed by Walter H. Hays
Company Palco Petroleum Corp.

* 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 1)	P _t ² + R ²	P _w
<u>1468</u>	<u>.099</u>	<u>92,500</u>	<u>9058</u>	<u>69005</u>	<u>74063</u>	<u>274</u>

