

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 Ashes Formation Pictured Cliff County San Juan
Purchasing Pipeline El Paso Natural Gas Co. Date Test Filed 6-26-56
Operator Palco Petroleum Corp. Lease Federal Well No. 2
Unit I Sec. 1 Twp. 23N Rge. 11W Pay Zone: From 2172 To 2224
Casing: OD 5 1/2 WT. 14 Set At 2271 Tubing: OD 1" WT. 1.7 T. Perf. 2224
Produced Through: Casing _____ Tubing I Gas Gravity: Measured .675 Estimated _____
Date of Flow Test: From 6-1-56 To 6-8-56 * Date S.I.P. Measured 1-28-56
Meter Run Size 4" Orifice Size 1.70 Type Chart Eq. 24 Type Taps Flange

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 (7.35) 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) 620 psig + 12 = 632 psia (j)
Wellhead tubing shut-in pressure (Dwt) 609 psig + 12 = 621 psia (k)
P_c = (j) or (k) whichever well flowed through _____ = 621 psia (l)
Flowing Temp. (Meter Run) 62 °F + 460 _____ = 504 °Abs (m)
P_d = 1/2 P_c = 1/2 (l) _____ = 311 psia (n)

Q = 671 X $\left(\frac{\text{FLOW RATE CALCULATION}}{\frac{V(c)}{V(d)}} \right) = \underline{671} \text{ MCF/day}$
(Integrated)

D = Q 671 $\left[\frac{P_c^2 - P_d^2}{P_c^2 - P_w^2} \right]^n \frac{671(1.389)^{.85}}{256,227} = \underline{227} \text{ MCF/day}$

SUMMARY
P_c = 621 psia
Q = 671 Mcf/day
P_w = 421 psia
P_d = 311 psia
D = 227 Mcf/day
Company Palco Petroleum Corp.
By M. L. Seelinger
Title Eng., Prod. Dept.
Witnessed by Sam. J. Anderson
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 i)	P _t ² + R ²	P _w
<u>1432</u>	<u>.999</u>	<u>1142.077</u>	<u>112.076</u>	<u>61.536</u>	<u>117.624</u>	<u>421</u>

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