

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 Aztec Formation Pictured Cliff County San Juan
Purchasing Pipeline El Paso Natural Gas Company Date Test Filed 4-3-58
Operator PUBCO PETROLEUM CORPORATION Lease Federal Well No. 14-3
Unit N Sec. 14 Twp. 30N Rge. 11W Pay Zone: From 2390 To 2420
Casing: OD 7" WT. 23# Set At 2497 Tubing: OD 1" WT. 1.7 T. Perf. 2377
Produced Through: Casing Tubing X Gas Gravity: Measured .638 Estimated
Date of Flow Test: From 2-28-58 To 3-8-58 * Date S.I.P. Measured 7-23-57
Meter Run Size 4" Orifice Size 1 1/4 Type Chart Sq.Rt. Type Taps Flange

OBSERVED DATA

Flowing casing pressure (Dwt) 362 psig + 12 = 374 psia (a)
Flowing tubing pressure (Dwt) 235 psig + 12 = 247 psia (b)
Flowing meter pressure (Dwt) 234 psig + 12 = 246 psia (c)
Flowing meter pressure (meter reading when Dwt. measurement taken:
Normal chart reading psig + 12 = psia (d)
Square root chart reading (7.0)² x spring constant 5 = 245 psia (d)
Meter error (c) - (d) or (d) - (c) ± = + 1 psi (e)
Friction loss, Flowing column to meter:
(b) - (c) Flow through tubing; (a) - (c) Flow through casing = 1 psi (f)
Seven day average static meter pressure (from meter chart):
Normal chart average reading psig + 12 = psia (g)
Square root chart average reading (6.95)² x sp. const. 5 = 242 psia (g)
Corrected seven day avge. meter press. (P_f) (g) + (e) = 243 psia (h)
P_t = (h) + (f) = 244 psia (i)
Wellhead casing shut-in pressure (Dwt) 601 psig + 12 = 613 psia (j)
Wellhead tubing shut-in pressure (Dwt) 601 psig + 12 = 613 psia (k)
P_c = (j) or (k) whichever well flowed through = 613 psia (l)
Flowing Temp. (Meter Run) 54 °F + 460 = 514 °Abs (m)
P_d = 1/2 P_c = 1/2 (l) = 307 psia (n)

FLOW RATE CALCULATION

$$Q = \frac{567}{(\text{integrated})} \times \left(\frac{\sqrt{(a) 246} = 15.68439 - 1.00204}{\sqrt{(d) 245} = 15.65248} \right)^* = 568 \text{ MCF/da}$$

DELIVERABILITY CALCULATION

$$D = Q \frac{568}{\left[\frac{P_c^2 - P_d^2}{P_c^2 - P_w^2} = \frac{281,520}{231,004} \right]^n (1.21868)^{85} 1.1831} = 672 \text{ MCF/da.}$$

SUMMARY

P_c = 613 psia
Q = 568 Mcf/day
P_w = 380 psia
P_d = 307 psia
D = 672 Mcf/day

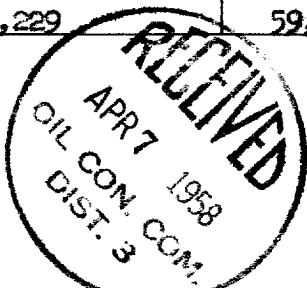
Company PUBCO PETROLEUM CORPORATION
By N. E. Maxwell, Jr.
Title Mgr. Prod. Dept.
Witnessed by Glen Rhodes
Company Pubco Petroleum Corp.

* 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
1517	.104	819,505	85,229	59,536	144,765	380



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