

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 South Blanco Formation Pictured Cliffs County San Juan
Purchasing Pipeline El Paso Natural Gas Company Date Test Filed 1-30-58
Operator PUBCO PETROLEUM CORPORATION Lease Federal Well No. 9-2
Unit F Sec. 9 Twp. 27N Rge. 8W Pay Zone: From 2177 To 2270
Casing: OD 7" WT. 20 & 23 Set At 2278 Tubing: OD 1" WT. 1.7 T. Perf. 2167
Produced Through: Casing _____ Tubing X Gas Gravity: Measured .636 Estimated _____
Date of Flow Test: From 1-8-58 To 1-16-58 Date S.I.P. Measured 9-6-57
Meter Run Size 4" Orifice Size 1 1/4" Type Chart Sq. Rt. Type Taps Flange

OBSERVED DATA

Flowing casing pressure (Dwt) 281 psig + 12 = 293 psia (a)
Flowing tubing pressure (Dwt) 281 psig + 12 = 293 psia (b)
Flowing meter pressure (Dwt) 280 psig + 12 = 292 psia (c)
Flowing meter pressure (meter reading when Dwt. measurement taken):
Normal chart reading _____ psig + 12 = _____ psia (d)
Square root chart reading (7.65)² x spring constant 5 = 293 psia (d)
Meter error (c) - (d) or (d) - (c) ± = - 1 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 (7.4)² x sp. const. 5 = 274 psia (g)
Corrected seven day ave. meter press. (p_f) (g) + (e) = 273 psia (h)
= 274 psia (i)
P_t = (h) + (f) = 274 psia (j)
Wellhead casing shut-in pressure (Dwt) 761 psig + 12 = 773 psia (j)
Wellhead tubing shut-in pressure (Dwt) 761 psig + 12 = 773 psia (k)
P_c = (j) or (k) whichever well flowed through = 773 psia (l)
Flowing Temp. (Meter Run) 53 °F + 460 = 513 °Abs (m)
P_d = 1/2 P_c = 1/2 (l) = 387 psia (n)

FLOW RATE CALCULATION

Q = 376 X $\left(\frac{\sqrt{(c) 292} - 0}{\sqrt{(d) 293}} \right)^{.85} = \underline{375}$ MCF/da
(integrated)

DELIVERABILITY CALCULATION

D = Q 375 $\left[\frac{(P_c^2 - P_d^2) = 447,760}{(P_c^2 - P_w^2) = 488,518} \right]^n (.91656)^{.85} \frac{9287}{9287} = \underline{348}$ MCF/da.

SUMMARY

P_c = 773 psia
Q = 375 Mcf/day
P_w = 330 psia
P_d = 387 psia
D = 348 Mcf/day

Company PUBCO PETROLEUM CORPORATION
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Witnessed by Wayne Martin
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
1378	.095	357.210	33.935	75,076	109.011	330

