

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 Basin Formation Dakota County San Juan
Purchasing Pipeline El Paso Natural Gas Company Date Test Filed January 4, 1961

Operator PUBCO PETROLEUM CORPORATION Lease Federal Well No. 6-3
Unit B Sec. 6 Twp. 29N Rge. 11W Pay Zone: From 6458 To 6560
Casing: OD 5 1/2 WT. 15 1/2 Set At 6682 Tubing: OD 2 3/8 WT. 4.7 T. Perf. 6507
Produced Through: Casing _____ Tubing X Gas Gravity: Measured .659 Estimated _____
Date of Flow Test: From 12-7-60 To 12-15-60 * Date S.I.P. Measured 11-2-60
Meter Run Size 4.0 Orifice Size 1.750 Type Chart Sq. Rt. Type Taps Flange

OBSERVED DATA

Flowing casing pressure (Dwt) 627 psig + 12 = 639 psia (a)
Flowing tubing pressure (Dwt) 538 psig + 12 = 550 psia (b)
Flowing meter pressure (Dwt) 497 psig + 12 = 509 psia (c)
Flowing meter pressure (meter reading when Dwt. measurement taken):
Normal chart reading _____ psig + 12 = _____ psia (d)
Square root chart reading (7.06)² x spring constant 10 = 498 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 = 51 psi (f)
Seven day average static meter pressure (from meter chart):
Normal chart average reading _____ psig + 12 = _____ psia (g)
Square root chart average reading (7.05)² x sp. const. 10 = 497 psia (g)
Corrected seven day avge. meter press. (P_f) (g) + (e) = 549 psia (h)
P_t = (h) + (f) = 600 psia (i)
Wellhead casing shut-in pressure (Dwt) 2065 psig + 12 = 2077 psia (j)
Wellhead tubing shut-in pressure (Dwt) 2027 psig + 12 = 2039 psia (k)
P_c = (j) or (k) whichever well flowed through = 2039 psia (l)
Flowing Temp. (Meter Run) 81 °F + 460 = 541 °Abs (m)
P_d = 1/2 P_c = 1/2 (l) = 1019 psia (n)

FLOW RATE CALCULATION

Q = 1429 (Integrated) X $\left(\frac{\sqrt{(c)} - 499 = 22.33831}{\sqrt{(d)} - 498 = 22.31591} = 1.00100 \right) = 1429$ MCF/da

DELIVERABILITY CALCULATION

D = Q 1429 $\left[\frac{P_c^2 - P_d^2}{P_c^2 - P_w^2} \right] = \frac{3,119,160}{3,807,746} \times 81916 \cdot 75 \cdot 0.8612 = 1231$ MCF/da.

SUMMARY

P_c = 2039 psia
Q = 1429 Mcf/day
P_w = 591 psia
P_d = 1019 psia
D = 1231 Mcf/day

Company PUBCO PETROLEUM CORPORATION
By B. H. Weychert, Jr. S.H. Weychert
Title Area Engineer
Witnessed by Glen O. 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
<u>4208</u>	<u>0.268</u>	<u>180,499</u>	<u>48,374</u>	<u>301,401</u>	<u>349,775</u>	<u>591</u>

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