

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 Blanco-Pictured Cliffs Formation Pictured Cliffs County San Juan
Purchasing Pipeline El Paso Natural Gas Company Date Test Filed 3-31-59
Operator PAN AMERICAN PETROLEUM CORP. Lease N. B. Smith "A" Well No. 7
Unit 1 Sec. 8 Twp. 20N Rge. 9W Pay Zone: From 21 50 To 21 00
Casing: OD 4-1/2 WT. 9.5 Set At 2800 Tubing: OD 1-1/4 WT. 2.3 T. Perf. 2179
Produced Through: Casing 1 Tubing _____ Gas Gravity: Measured 0.650 Estimated _____
Date of Flow Test: From 2-22-59 To 3-7-59 * Date S.I.P. Measured 12-28-58
Meter Run Size 6" Orifice Size 1.350 Type Chart Sq. Rt. 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 (7.50) ² x sp. const. 5 = 205 psia (g)
Corrected seven day avge. meter press. (p_f) (g) + (e) _____ = 205 psia (h)
P_t = (h) + (f) _____ = 205 psia (i)
Wellhead casing shut-in pressure (Dwt) 997 psig + 12 = 1009 psia (j)
Wellhead tubing shut-in pressure (Dwt) 997 psig + 12 = 1009 psia (k)
P_c = (j) or (k) whichever well flowed through _____ = 1009 psia (l)
Flowing Temp. (Meter Run) 96.2 °F + 460 _____ = 556 °Abs (m)
P_d = 1/2 P_c = 1/2 (l) _____ = 505 psia (n)

FLOW RATE CALCULATION

Q = _____ X $\left(\frac{\sqrt{(c)}}{\sqrt{(d)}} \right) = \text{_____ MCF/da}$
(integrated)

DELIVERABILITY CALCULATION

D = Q 509 $\left[\frac{P_c^2 - P_d^2}{P_c^2 - P_w^2} \right]^n = \text{_____ MCF/da.}$
0.840

SUMMARY

P_c = 1009 psia
Q = 509 Mcf/day
P_w = 205 psia
P_d = 505 psia
D = 428 Mcf/day

Company PAN AMERICAN PETROLEUM CORPORATION
By R. E. BAUER, JR. RMBauer
Title FIELD ENGINEER
Witnessed by _____
Company _____

* 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

Friction loss negligible

*Furnished by pipeline company.

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