

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 Pictured Cliffs Formation Pictured Cliffs County Rio Arriba
Purchasing Pipeline El Paso Natural Gas Company Date Test Filed 3-31-59
Operator PAN AMERICAN PETROLEUM CORP. Lease Jicarilla Contract 148 Well No. 12
Unit A Sec. 24 Twp. 25N Rge. 9W Pay Zone: From 3134 To 3162
Casing: OD 4-1/2 WT. 9.5 Set At 3209 Tubing: OD 2-3/8 WT. 4.7 T. Perf. 325
Produced Through: Casing Tubing X Gas Gravity: Measured 0.679 Estimated
Date of Flow Test: From 3-28-59 To 3-7-59 * Date S.I.P. Measured 3-2-59
Meter Run Size 4" Orifice Size 2.000 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 (7.15) ² x sp. const. 5 _____ = _____ psia (g)
Corrected seven day avg. meter press. (P_f) (g) + (e) _____ = _____ psia (h)
P_t = (h) + (f) _____ = _____ psia (i)
Wellhead casing shut-in pressure (Dwt) _____ 922 psig + 12 = _____ psia (j)
Wellhead tubing shut-in pressure (Dwt) _____ 922 psig + 12 = _____ psia (k)
P_c = (j) or (k) whichever well flowed through _____ = _____ psia (l)
Flowing Temp. (Meter Run) _____ 67 °F + 460 _____ = _____ ° Abs (m)
P_d = 1/2 P_c = 1/2 (l) _____ = _____ psia (n)

FLOW RATE CALCULATION

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

DELIVERABILITY CALCULATION

D = Q 1237 $\left[\frac{(P_c^2 - P_d^2)}{(P_c^2 - P_w^2)} \right]^n$ 0.8543 = 1057 MCF/da.

SUMMARY

P_c = 924 psia
Q = 1237 Mcf/day
P_w = 292 psia
P_d = 460 psia
D = 1057 Mcf/day

Company PAN AMERICAN PETROLEUM CORPORATION
By R. M. Bauer, Jr.
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 R ²	(1-e ^{-S})	P _t ² (Column i)	P _t ² + R ²	P _w
2122	0.343	135.257	19.342	0.6543	45.834	46.078	291

*Furnished by pipeline company

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