

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 Santa Dakota Formation Dakota County San Juan
Purchasing Pipeline El Paso Natural Gas Company Date Test Filed 6-18-64
Operator PAN AMERICAN PETROLEUM CORP. Lease Gallegos Canyon Unit Well No. 93
Unit E Sec. 36 Twp. 21N Rge. 12W Pay Zone: From 3940 To 3977
Casing: OD 4-1/2 WT. 9.5 Set At 6044 Tubing: OD 2-3/8 WT. 4.7 T. Perf. 3977
Produced Through: Casing _____ Tubing E Gas Gravity: Measured .626 Estimated _____
Date of Flow Test: From 4-22-64 To 5-4-64 * Date S.I.P. Measured 9-15-61
Meter Run Size 4" Orifice Size 1.500 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: _____ = _____ psi (f)
(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 (_____) ² x sp. const. _____ = _____ psia (g)
Corrected seven day avge. meter press. (p_f) (g) + (e) _____ = _____ psia (h)
P_t = (h) + (f) _____ = _____ psia (i)
Wellhead casing shut-in pressure (Dwt) 2837 psig + 12 = 2949 psia (j)
Wellhead tubing shut-in pressure (Dwt) 2837 psig + 12 = 2949 psia (k)
P_c = (j) or (k) whichever well flowed through _____ = _____ psia (l)
Flowing Temp. (Meter Run) _____ °F + 460 _____ = _____ ° Abs (m)
P_d = 1/2 P_c = 1/2 (l) _____ = _____ psia (n)

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

DELIVERABILITY CALCULATION

D = Q 1673 $\left[\frac{(P_c^2 - P_d^2) = \text{1,147,776}}{(P_c^2 - P_w^2) = \text{1,894,467}} \right]^n \text{0.8524} = \text{1426 MCF/da.}$

SUMMARY

P_c = 2949 psia
Q = 1673 Mcf/day
P_w = 351 psia
P_d = 1625 psia
D = 1426 Mcf/day

Company PAN AMERICAN PETROLEUM CORPORATION
By F. L. Eubank
Title District Engineer
Witnessed by By ORIGINAL SIGNED BY
Company F. W. Foll

- * 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>4100</u>	<u>.258</u>	<u>247.419</u>	<u>63.834</u>	<u>246.100</u>	<u>303.934</u>	<u>351</u>

