

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 4-2-65
Operator PAN AMERICAN PETROLEUM CORP. Lease J. C. Gordon "B" Well No. 5
Unit C Sec. 24 Twp. 27N Rge. 10W Pay Zone: From 6432 To 6550
Casing: OD 4-1/2 WT. 18.5 Set At 6645 Tubing: OD 2-3/8 WT. 4.7 T. Perf. 6405
Produced Through: Casing _____ Tubing I Gas Gravity: Measured .688 Estimated _____
Date of Flow Test: From 3-20-65 To 3-20-65 * Date S.I.P. Measured 9-11-64
Meter Run Size 4" Orifice Size 1.750 Type Chart Sp. 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
Seven day average static meter pressure (from meter chart):
Normal chart average reading _____ psig + 12 = _____ psia (g)
Square root chart average reading (7.1) 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) 1969 psig + 12 = 1981 psia (j)
Wellhead tubing shut-in pressure (Dwt) 1974 psig + 12 = 1986 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) _____ = 993 psia (n)

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

DELIVERABILITY CALCULATION

D = Q 838 $\left[\frac{(P_c^2 - P_d^2) = \text{2,952,147}}{(P_c^2 - P_w^2) = \text{3,673,171}} \right]^n \cdot \text{.8500} = \text{712 MCF/da.}$

SUMMARY

P_c = 1986 psia
Q = 838 Mcf/day
P_w = 991 psia
P_d = 993 psia
D = 712 Mcf/day

Company PAN AMERICAN PETROLEUM CORP.
By F. L. Haba
Title District Engineer
Witnessed by Byl Original Signed By PS
Company G. W. EATON DIST. 3

- * 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>4407</u>	<u>.274</u>	<u>62,677</u>	<u>17,009</u>	<u>234,016</u>	<u>271,025</u>	<u>521</u>