

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 _____ 6-24-65
Operator _____ PAN AMERICAN PETROLEUM CORP. _____ Lease _____ Lefkovitz Gas Unit "B" _____ Well No. _____ 1
Unit _____ A _____ Sec. _____ 25 _____ Twp. _____ 29N _____ Rge. _____ 10W _____ Pay Zone: From _____ 6366 _____ To _____ 6442
Casing: OD _____ 4-1/2 _____ WT. _____ 10.5 _____ Set At _____ 6460 _____ Tubing: OD _____ 2-3/8 _____ WT. _____ 4.7 _____ T. Perf. _____ 6293
Produced Through: Casing _____ Tubing _____ X _____ Gas Gravity: Measured _____ .684 _____ Estimated _____
Date of Flow Test: From _____ 5-25-65 _____ To _____ 6-2-65 _____ * Date S.I.P. Measured _____ 3-24-65
Meter Run Size _____ 4" _____ Orifice Size _____ 1.250 _____ 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 (_____ 7.4 _____) ² x sp. const. _____ 10 _____ = _____ 548 _____ psia (g)
Corrected seven day avge. meter press. (p_f) (g) + (e) _____ = _____ 548 _____ psia (h)
P_t = (h) + (f) _____ = _____ 548 _____ psia (i)
Wellhead casing shut-in pressure (Dwt) _____ 2111 _____ psig + 12 = _____ 2123 _____ psia (j)
Wellhead tubing shut-in pressure (Dwt) _____ 2113 _____ psig + 12 = _____ 2125 _____ psia (k)
P_c = (j) or (k) whichever well flowed through _____ = _____ 2125 _____ psia (l)
Flowing Temp. (Meter Run) _____ °F + 460 _____ = _____ °Abs (m)
P_d = 1/2 P_c = 1/2 (l) _____ = _____ 1063 _____ psia (n)

FLOW RATE CALCULATION

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

DELIVERABILITY CALCULATION

D = Q _____ 817 $\left[\frac{(P_c^2 - P_d^2)}{(P_c^2 - P_w^2)} \right] = \frac{3,385,656}{4,199,449} \right]^n \cdot .8508 = \text{_____ 695 MCF/da.}$

SUMMARY

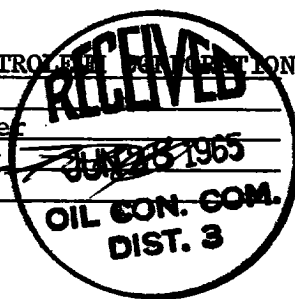
P_c = _____ 2125 _____ psia
Q = _____ 817 _____ Mcf/day
P_w = _____ 563 _____ psia
P_d = _____ 1063 _____ psia
D = _____ 695 _____ Mcf/day

Company _____ PAN AMERICAN PETROLEUM CORPORATION
By _____ F. L. Nabors
Title _____ District Engineer
Witnessed by _____ 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})	P _t ²	P _t ² + R ²	P _w
			R ²	(Column 1)		
4304	0.269	59.004	15.872	300.304	316,176	563



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