

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 Co. Date Test Filed 4-2-65

Operator PAN AMERICAN PETROLEUM CORP. Lease Jack Frost "D" Well No. 1
Unit SE Sec. 26 Twp. 27N Rge. 10W Pay Zone: From 6479 To 6396
Casing: OD 4-1/2 WT. 10.5 Set At 6394 Tubing: OD 2-3/8 WT. 4.7 T. Perf. 6470
Produced Through: Casing _____ Tubing X Gas Gravity: Measured .671 Estimated _____
Date of Flow Test: From 3-13-65 To 3-20-65 * Date S.I.P. Measured 10-2-64
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 (6.8) ² x sp. const. _____ = 462 psia (g)
Corrected seven day avge. meter press. (p_f) (g) + (e) _____ = 462 psia (h)
P_t = (h) + (f) _____ = 462 psia (i)
Wellhead casing shut-in pressure (Dwt) 1871 psig + 12 = 1883 psia (j)
Wellhead tubing shut-in pressure (Dwt) 1889 psig + 12 = 1901 psia (k)
P_c = (j) or (k) whichever well flowed through _____ = 1901 psia (l)
Flowing Temp. (Meter Run) _____ °F + 460 _____ = _____ °Abs (m)
P_d = 1/2 P_c = 1/2 (l) _____ = 951 psia (n)

FLOW RATE CALCULATION

Q = _____ X $\left(\frac{\sqrt{P_c}}{\sqrt{P_d}} \right)^2 =$ _____ MCF/da
(Integrated)

DELIVERABILITY CALCULATION

D = Q 743 $\left[\frac{P_c^2 - P_d^2}{P_c^2 - P_w^2} \right]^n =$ 629 MCF/da.
 $\left[\frac{P_c^2 - P_d^2}{P_c^2 - P_w^2} \right] = \frac{2,709,400}{3,386,791}$ n .8439

SUMMARY

P_c = 1901 psia
Q = 743 Mcf/day
P_w = 477 psia
P_d = 951 psia
D = 629 Mcf/day

Company PAN AMERICAN
By F. L. Eubank
Title District
Witnessed by By
Company _____ Original Signed APR 8 1965
G. W. EUBANK, JR.

- * 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
4471	.278	48,800	13,346	213,444	227,610	477