

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 Dakota Formation Dakota County San Juan
Purchasing Pipeline El Paso Natural Gas Company Date Test Filed 3-8-64
Operator TAN AMERICAN PETROLEUM CORP. Lease Madon Gas Unit Well No. 1
Unit A Sec. 28 Twp. 29N Rge. 12W Pay Zone: From 6110 To 6125
Casing: OD 4-1/2 WT. 10.5 Set At 6101 Tubing: OD 2-1/16 WT. 3.25 T. Perf. 2001
Produced Through: Casing 2 Tubing 1 Gas Gravity: Measured .699 Estimated
Date of Flow Test: From 4-6-64 To 4-14-64 * Date S.I.P. Measured 5-17-63
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
Seven day average static meter pressure (from meter chart):
Normal chart average reading _____ psig + 12 = _____ psia (g)
Square root chart average reading (6.9) ² x sp. const. 10 _____ = _____ 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) 2044 psig + 12 = 2056 psia (j)
Wellhead tubing shut-in pressure (Dwt) 2039 psig + 12 = 2051 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) _____ = 1028 psia (n)

FLOW RATE CALCULATION

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

DELIVERABILITY CALCULATION

D = Q 1993 $\left[\frac{(P_c^2 - P_d^2)}{(P_c^2 - P_w^2)} \right] = \frac{2,170,352}{3,000,344} \times 0.0378 =$ 1348 MCF/day.

SUMMARY

P_c = 2056 psia
Q = 1993 Mcf/day
P_w = 2001 psia
P_d = 1028 psia
D = 1348 Mcf/day

Company TAN AMERICAN PETROLEUM CORP.
By F. L. Roberts
Title District Engineer
Witnessed by By ORIGINAL SIGNED BY F. W. Foell
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}) R ²	P _t ² (Column i)	P _t ² + R ²	P _w
<u>2041</u>	<u>.240</u>	<u>446.635</u>	<u>111.212</u>	<u>206.976</u>	<u>337.708</u>	<u>2001</u>