

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 6-14-64
Operator PAN AMERICAN PETROLEUM CORP. Lease Crawford Gas Unit "B" Well No. 1
Unit L Sec. 24 Twp. 29N Rge. 12W Pay Zone: From 6224 To 6232
Casing: OD 4-1/2 WT. 9.5 Set At 6356 Tubing: OD 2-3/8 WT. 4.7 T. Perf. 6233
Produced Through: Casing X Tubing X Gas Gravity: Measured .676 Estimated
Date of Flow Test: From 4-30-64 To 5-8-64 * Date S.I.P. Measured 11-1-61
Meter Run Size 4" Orifice Size 2.000 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 (6.93) ² x sp. const. 10 = 483 psia (g)
Corrected seven day avge. meter press. (p_f) (g) + (e) _____ = 483 psia (h)
P_t = (h) + (f) _____ = 2121 psia (i)
Wellhead casing shut-in pressure (Dwt) 2109 psig + 12 = 2121 psia (j)
Wellhead tubing shut-in pressure (Dwt) 2052 psig + 12 = 2104 psia (k)
P_c = (j) or (k) whichever well flowed through _____ = 2121 psia (l)
Flowing Temp. (Meter Run) _____ °F + 460 _____ = _____ °Abs (m)
P_d = 1/2 P_c = 1/2 (l) _____ = 1061 psia (n)

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

DELIVERABILITY CALCULATION

D = Q 2624 $\left[\frac{P_c^2 - P_d^2}{P_c^2 - P_w^2} \right] = \frac{3,372,920}{4,104,668} \times .8631 = \text{_____}$ MCF/day.

SUMMARY

P_c = 2121 psia
Q = 2624 Mcf/day
P_w = 628 psia
P_d = 1061 psia
D = 2265 Mcf/day

Company PAN AMERICAN PETROLEUM CORPORATION
By F. L. Nabors
Title District Engineer
Witnessed by By: ORIGINAL SIGNED BY
Company F. W. Foell

- * 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>4214</u>	<u>.264</u>	<u>608.651</u>	<u>160.684</u>	<u>233.289</u>	<u>393.973</u>	<u>628</u>