

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 Pictured Cliffs Formation Pictured Cliffs County San Juan
Purchasing Pipeline El Paso Natural Gas Company Date Test Filed 4-16-59
Operator Pan American Petroleum Corp. Lease E. E. Elliott "C" Well No. 2
Unit 8 Sec. 9 Twp. 30N Rge. 9W Pay Zone: From 2965 To 3018
Casing: OD 4-1/2 WT. 9.5 Set At 3060 Tubing: OD 1.66 WT. 2.3 T. Perf. 3001
Produced Through: Casing I Tubing _____ Gas Gravity: Measured 0.662* Estimated _____
Date of Flow Test: From 3-22-59 To 3-30-59 * Date S.I.P. Measured 1-22-59
Meter Run Size 4 Orifice Size 1.500* Type Chart Sq. Ft. 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 (7.25*) ² x sp. const. 5 = _____ 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) 1029 psig + 12 = 1041 psia (j)
Wellhead tubing shut-in pressure (Dwt) 1029 psig + 12 = 1041 psia (k)
P_c = (j) or (k) whichever well flowed through _____ = 1041 psia (l)
Flowing Temp. (Meter Run) 56* °F + 460 _____ = 516 ° Abs (m)
P_d = 1/2 P_c = 1/2 (l) _____ = 521 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 434* $\left[\frac{P_c^2 - P_d^2}{P_c^2 - P_w^2} = \frac{1041^2 - 521^2}{1041^2 - 1014.512} = 0.828 \right]^n = \text{359 MCF/da.}$

SUMMARY

P_c = 1041 psia
Q = 434* Mcf/day
P_w = 263 psia
P_d = 521 psia
D = 359 Mcf/day

Company PAN AMERICAN PETROLEUM CORPORATION
By R. M. Bauer, Jr. *RMB*
Title Field Engineer
Witnessed by _____
Company _____

* This is date of completion test. *Furnished by pipeline company
* 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

Friction Loss Negligible

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