

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 7-29-58
Operator PAN AMERICAN PETROLEUM CORP. Lease H. D. Smith "B" Well No. 2
Unit 0 Sec. 21 Twp. 30N Rge. 9E Pay Zone: From 2330 To 2370
Casing: OD 5-1/2 WT. 21.7 Set At 2312 Tubing: OD 1-3/4 WT. 2.30 T. Perf. 2343
Produced Through: Casing X Tubing _____ Gas Gravity: Measured 0.667 Estimated _____
Date of Flow Test: From 6-22-58 To 6-29-58 * Date S.I.P. Measured 7-15-58
Meter Run Size 6" Orifice Size 1.500" Type Chart 24.24 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 (7.10) ² x sp. const. 5 = 252 psia (g)
Corrected seven day avge. meter press. (p_f) (g) + (e) = 252 psia (h)
P_t = (h) + (f) = 252 psia (i)
Wellhead casing shut-in pressure (Dwt) 1033 psig + 12 = 1043 psia (j)
Wellhead tubing shut-in pressure (Dwt) 1033 psig + 12 = 1043 psia (k)
P_c = (j) or (k) whichever well flowed through = 1043 psia (l)
Flowing Temp. (Meter Run) 60 °F + 460 = 520 °Abs (m)
P_d = 1/2 P_c = 1/2 (l) = 522 psia (n)

FLOW RATE CALCULATION

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

DELIVERABILITY CALCULATION

D = Q 614 $\left[\frac{P_c^2 - P_d^2}{P_c^2 - P_w^2} \right]^{1/n} = \text{_____ MCF/day}$
0.82

SUMMARY

P_c = 1043 psia
Q = 614 Mcf/day
P_w = 252 psia
P_d = 522 psia
D = 506 Mcf/day

Company PAN AMERICAN PETROLEUM CORPORATION
By D. H. Smith, Jr.
Title Field Engineer
Witnessed 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}) R ²	P _t ² (Column i)	P _t ² + R ²	P _w
		Friction loss negligible				

* Furnished by pipeline company.

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