

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 South Hemon-Pictured Cliffs Formation Pictured Cliffs County Rio Arriba
Purchasing Pipeline Pacific Northwest Pipeline Corporation Date Test Filed 2-27-59

Operator PAN AMERICAN PETROLEUM CORP. Lease Alcarilla Contract 155 Well No. 10
Unit 11 Sec. 30 Twp. 26N Rge. 3E Pay Zone: From 2923 To 2932
Casing: OD 4-1/2 WT. 9.5 Set At 2974 Tubing: OD 2-3/8 WT. 4.7 T. Perf. 2927
Produced Through: Casing ^ Tubing I Gas Gravity: Measured 0.692* Estimated _____
Date of Flow Test: From 1-15-59 To 1-22-59 * Date S.I.P. Measured 12-17-58
Meter Run Size 1 Orifice Size 0.750 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 (_____) ² x sp. const. (535)* = 547 psia (g)
Corrected seven day avge. meter press. (p_f) (g) + (e) _____ = 547 psia (h)
P_t = (h) + (f) _____ = 547 psia (i)
Wellhead casing shut-in pressure (Dwt) 960 psig + 12 = 972 psia (j)
Wellhead tubing shut-in pressure (Dwt) 960 psig + 12 = 972 psia (k)
P_c = (j) or (k) whichever well flowed through _____ = 972 psia (l)
Flowing Temp. (Meter Run) 59* °F + 460 _____ = 525 °Abs (m)
P_d = 1/2 P_c = 1/2 (l) _____ = 486 psia (n)

FLOW RATE CALCULATION

Q = _____ X $\left(\frac{V(c)}{V(d)} \right)^* =$ _____ MCF/da
(integrated)

DELIVERABILITY CALCULATION

D = Q 236* $\left[\frac{P_c^2 - P_d^2}{P_c^2 - P_w^2} \right]^n =$ 1.0003 = 236 MCF/da.

SUMMARY

P_c = 972 psia
Q = 236* Mcf/day
P_w = 517 psia
P_d = 486 psia
D = 236 Mcf/day
Company PAN AMERICAN PETROLEUM CORPORATION
By R. M. Bomer, 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})	P _t ²	P _t ² + R ²	P _w
			R ²	(Column i)		
Friction loss negligible						

INITIAL DELIVERABILITY TEST

OK

