

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 Blanco-Pictured Cliffs Formation Pictured Cliffs County Rio Arriba
Purchasing Pipeline Pacific Northwest Pipeline Corporation Date Test Filed 4-20-59

Operator PAN AMERICAN PETROLEUM CORP. Lease Sierrita Contract 148 Well No. 11
Unit 11 Sec. 13 Twp. 25N Rge. 2W Pay Zone: From 362 To 364
Casing: OD 4-1/2 WT. 9.5 Set At 2707 Tubing: OD 2-1/8 WT. 4.7 T. Perf. 362
Produced Through: Casing _____ Tubing I Gas Gravity: Measured _____ Estimated 0.67
Date of Flow Test: From 3-22-59 To 3-30-59 * Date S.I.P. Measured 3-2-59
Meter Run Size 4 Orifice Size 1.250 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. 2650 _____ = 377 psia (g)
Corrected seven day avge. meter press. (p_f) (g) + (e) _____ = 377 psia (h)
P_t = (h) + (f) _____ = 377 psia (i)
Wellhead casing shut-in pressure (Dwt) 930 psig + 12 = 942 psia (j)
Wellhead tubing shut-in pressure (Dwt) 930 psig + 12 = 942 psia (k)
P_c = (j) or (k) whichever well flowed through _____ = 942 psia (l)
Flowing Temp. (Meter Run) 60 (est.) °F + 460 _____ = 500 °Abs (m)
P_d = 1/2 P_c = 1/2 (l) _____ = 471 psia (n)

FLOW RATE CALCULATION

$$Q = \frac{P_c^2 - P_d^2}{P_c^2 - P_w^2} \times \left(\frac{V(c)}{V(d)} \right) = \text{_____ MCF/day}$$

DELIVERABILITY CALCULATION

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

SUMMARY

P_c = 942 psia
Q = 3670 Mcf/day
P_w = 377 psia
P_d = 471 psia
D = 648 Mcf/day

Company PAN AMERICAN PETROLEUM CORPORATION
By R. M. Sawyer, 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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