

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 8-7-57

Operator PAN AMERICAN PETROLEUM CORP. Lease Alvarilla Contract 146 Well No. 8
Unit 0 Sec. 9 Twp. 23N Rge. 3W Pay Zone: From 2940 To 2975
Casing: OD 5 1/2 WT. 14 Set At 3000 Tubing: OD 2 3/8 WT. 4.7 T. Perf. 2975
Produced Through: Casing Tubing I Gas Gravity: Measured .673 Estimated
Date of Flow Test: From 6-2-57 To 7-8-57 * Date S.I.P. Measured 6-22-57
Meter Run Size 1" Orifice Size 1.000 Type Chart Sq. In. 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 (6.3)² x sp. const. 14 = 995 psia (g)
Corrected seven day avg. meter press. (p_f) (g) + (e) = 995 psia (h)
P_t = (h) + (f) = 995 psia (i)
Wellhead casing shut-in pressure (Dwt) psig + 12 = psia (j)
Wellhead tubing shut-in pressure (Dwt) 954 psig + 12 = 966 psia (k)
P_c = (j) or (k) whichever well flowed through = 966 psia (l)
Flowing Temp. (Meter Run) 75 °F + 460 = 525 °Abs (m)
P_d = 1/2 P_c = 1/2 (l) = 483 psia (n)

Q = X $\left(\frac{\text{FLOW RATE CALCULATION}}{\frac{\sqrt{(c)}}{\sqrt{(d)}}} = \frac{\text{ }}{\text{ }} = \text{ }} \right)^* = \text{ }$
(integrated)

DELIVERABILITY CALCULATION

D = Q 139 $\left[\frac{P_c^2 - P_d^2}{P_c^2 - P_w^2} = \frac{354,025}{437,816} \right]^n \frac{1.296}{\text{ }} = \text{172} \text{ MCF/da.}$

SUMMARY

P_c = 966 psia
Q = 139 Mcf/day
P_w = 966 psia
P_d = 483 psia
D = 172 Mcf/day

Company PAN AMERICAN PETROLEUM CORPORATION
By H. R. Dwyer, Jr. R.M. Sauer, 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
1975	.135	1.563	.211	354,025	354,236	995

* Furnished by the pipeline company.

Note: INITIAL DELIVERABILITY TEST is being filed on the blue colored Form C-122-A due to the producing difficulties on the subject well and the inability of the pipeline company to reschedule the well for testing.