

Initial Deliverability
Test

Form C-122-A
Revised April 20, 1955

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 Otero-Graneros Formation Graneros County Rio Arriba
Purchasing Pipeline Pacific Northwest Pipeline Corporation Date Test Filed 12-10-58
Operator PAN AMERICAN PETROLEUM CORP. Lease Jicarilla Contract 146 Well No. 9
Unit N Sec. 10 Twp. 25N Rge. 2E Pay Zone: From 735A To 740E
Casing: OD 5 1/2" WT. 14 Set At 7698 Tubing: OD 2 3/8 WT. 4.7 T. Perf. 7350
Produced Through: Casing Tubing I Gas Gravity: Measured 0.650 Estimated
Date of Flow Test: From 10-22-58 To 10-30-58 * Date S.I.P. Measured 9-12-58
Meter Run Size 4 Orifice Size Type Chart SG. PL. 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 4778 psig + 12 = 489 psia (g)
Square root chart average reading () ² x sp. const. = psia (g)
Corrected seven day avge. meter press. (p_f) (g) + (e) = 489 psia (h)
P_t = (h) + (f) = 489 psia (i)
Wellhead casing shut-in pressure (Dwt) 2397 psig + 12 = 2397 psia (j)
Wellhead tubing shut-in pressure (Dwt) 2397 psig + 12 = 2397 psia (k)
P_c = (j) or (k) whichever well flowed through = 2397 psia (l)
Flowing Temp. (Meter Run) 62 °F + 460 = 520 °Abs (m)
P_d = 1/2 P_c = 1/2 (l) = 1194 psia (n)

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

DELIVERABILITY CALCULATION

D = Q 236 $\left[\frac{(P_c^2 - P_d^2)}{(P_c^2 - P_w^2)} = \frac{3,990,533}{5,081,685} \right]^n \frac{0.834}{\text{ }} = \text{197}$ MCF/da.

SUMMARY

P_c = 2397 psia
Q = 236 Mcf/day
P_w = 490 psia
P_d = 1194 psia
D = 197 Mcf/day

Company PAN AMERICAN PETROLEUM CORPORATION
By H. K. Houser, Jr. R. W. Bawer, 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)		
4778	0.293	4.926	1.443	239.122	240.564	490

*Furnished by pipeline company

