

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 Basin Dakota Formation Dakota County San Juan
Purchasing Pipeline El Paso Natural Gas Company Date Test Filed 3-23-64
Operator PAN AMERICAN PETROLEUM CORP. Lease Gallegos Canyon Unit Well No. 86
Unit II Sec. 35 Twp. 29N Rge. 13W Pay Zone: From 6176 To 6226
Casing: OD 7" WT. 29.4.23 Set At 6293 Tubing: OD 2-3/8 WT. 4.7 T. Perf. 6122
Produced Through: Casing Tubing X Gas Gravity: Measured .679 Estimated
Date of Flow Test: From 4-14-64 To 4-22-64 * Date S.I.P. Measured 3-21-60
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 (7.00)² x sp. const. 10 = 490 psia (g)
Corrected seven day avge. meter press. (p_f) (g) + (e) = 490 psia (h)
P_t = (h) + (f) = 490 psia (i)
Wellhead casing shut-in pressure (Dwt) psig + 12 = psia (j)
Wellhead tubing shut-in pressure (Dwt) 1955 psig + 12 = 1967 psia (k)
P_c = (j) or (k) whichever well flowed through = 1967 psia (l)
Flowing Temp. (Meter Run) °F + 460 = °Abs (m)
P_d = 1/2 P_c = 1/2 (l) = 984 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 1,665 $\left[\frac{(P_c^2 - P_d^2)}{(P_c^2 - P_w^2)} = \frac{2,900,833}{3,565,029} \right]^n \cdot .8363 = 1427$ MCF/da.

SUMMARY

P_c = 1967 psia
Q = 1665 Mcf/day
P_w = 591 psia
P_d = 984 psia
D = 1427 Mcf/day

Company PAN AMERICAN PETROLEUM CORPORATION
By F. L. Mahors
Title District Engineer
Witnessed by Dye ORIGINAL SIGNED BY
Company F. W. Foell

- * 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
4161	.261	243,038	63,960	240,100	304,060	551

