

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 Basin Dakota Formation Dakota County Rio Arriba
Purchasing Pipeline El Paso Natural Gas Company Date Test Filed 1-3-64

Operator PAN AMERICAN PETROLEUM CORP. Lease Jicarilla Apache 102 Well No. 8
Unit E Sec. 3 Twp. 24N Rge. 4W Pay Zone: From 7988 To 8010
Casing: OD 4-1/2 WT. 10.5 Set At 8111 Tubing: OD 2-3/8 WT. 4.7 T. Perf. 7934
Produced Through: Casing Tubing X Gas Gravity: Measured .707 Estimated
Date of Flow Test: From 12-3-63 To 12-10-63 * Date S.I.P. Measured 6-12-63
Meter Run Size 4" Orifice Size 1.500 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 (7.30) ² x sp. const. 10 = 533 psia (g)
Corrected seven day avge. meter press. (p_f) (g) + (e) = 533 psia (h)
P_t = (h) + (f) = 533 psia (i)
Wellhead casing shut-in pressure (Dwt) 2350 psig + 12 = 2362 psia (j)
Wellhead tubing shut-in pressure (Dwt) 2350 psig + 12 = 2362 psia (k)
P_c = (j) or (k) whichever well flowed through = 2362 psia (l)
Flowing Temp. (Meter Run) °F + 460 = °Abs (m)
P_d = 1/2 P_c = 1/2 (l) = 1181 psia (n)

FLOW RATE CALCULATION

$$Q = \text{(integrated)} \times \left(\frac{\sqrt{(c)}}{\sqrt{(d)}} = \text{ } = \text{ } \right) = \text{ } \text{ MCF/da}$$

DELIVERABILITY CALCULATION

$$D = Q \text{ } 846 \left[\left(\frac{P_c^2 - P_d^2}{P_c^2 - P_w^2} \right) = \frac{4,184,283}{5,273,760} \right]^n \text{ } .8406 = \text{ } 711 \text{ MCF/da.}$$

SUMMARY

P_c = 2362 psia
Q = 846 Mcf/day
P_w = 533 psia
P_d = 1181 psia
D = 711 Mcf/day

Company PAN AMERICAN PETROLEUM CORPORATION
By F. L. Nabors
Title District Engineer
Witnessed by By ORIGINAL SIGNED BY
Company F. W. Foell 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
5409	.335	63,268	21,195	284,009	305,204	533

