

ILLEGIBLE

Form C-122-A
Revised April 20, 1955

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 Alamosa-Mesa Verde Formation Mesa Verde County San Juan
Purchasing Pipeline El Paso Natural Gas Company Date Test Filed 2-13-58
Operator PAN AMERICAN PETROLEUM CORP. Lease Hornjo Alotted Gas Unit B Well No. 1
Unit H Sec. 36 Twp. 28N Rge. 9E Pay Zone: From 4322 To 4528
Casing: OD 5 1/2 WT. 16 Set At 4579 Tubing: OD 2 3/8 WT. 4.71 T. Perf. 4326
Produced Through: Casing _____ Tubing I Gas Gravity: Measured 0.725 Estimated _____
Date of Flow Test: From 1/16/58 To 1/23/58 * Date S.I.P. Measured 1-30-58
Meter Run Size 4 Orifice Size 2.000 Type Chart Sq. Ed. Type Taps Flange

OBSERVED DATA

Flowing casing pressure (Dwt) 564 psig + 12 = 576 psia (a)
Flowing tubing pressure (Dwt) 540 psig + 12 = 552 psia (b)
Flowing meter pressure (Dwt) 535 psig + 12 = 547 psia (c)
Flowing meter pressure (meter reading when Dwt. measurement taken:
Normal chart reading _____ psig + 12 = _____ psia (d)
Square root chart reading (7.40)² x spring constant 30 = 547 psia (d)
Meter error (c) - (d) or (d) - (c) ± _____ = 0 psi (e)
Friction loss, Flowing column to meter:
(b) - (c) Flow through tubing: (a) - (c) Flow through casing _____ = 5 psi (f)
Seven day average static meter pressure (from meter chart):
Normal chart average reading _____ psig + 12 = _____ psia (g)
Square root chart average reading (7.40)² x sp. const. 30 = 547 psia (g)
Corrected seven day avge. meter press. (p_f) (g) + (e) _____ = 542 psia (h)
P_t = (h) + (f) _____ = 547 psia (i)
Wellhead casing shut-in pressure (Dwt) 824 psig + 12 = 836 psia (j)
Wellhead tubing shut-in pressure (Dwt) 811 psig + 12 = 823 psia (k)
P_c = (j) or (k) whichever well flowed through _____ = 823 psia (l)
Flowing Temp. (Meter Run) 51°F + 460 _____ = 538°Abs (m)
P_d = 1/2 P_c = 1/2 (l) _____ = 412 psia (n)

FLOW RATE CALCULATION

$$Q = \frac{874}{(\text{integrated})} \times \left(\frac{\sqrt{(c)} = 27.2029}{\sqrt{(d)} = 27.2029} = 1.000 \right)^* = 874 \text{ MCF/da}$$

DELIVERABILITY CALCULATION

$$D = Q \frac{874}{\left[\frac{P_c^2 - P_d^2}{P_c^2 - P_w^2} = \frac{507,581}{358,851} \right]^n \cdot 1.297} = 113 \text{ MCF/da.}$$

SUMMARY

P_c = 823 psia
Q = 874 Mcf/day
P_w = 564 psia
P_d = 412 psia
D = 113 Mcf/day

Company PAN AMERICAN PETROLEUM CORPORATION
By E. H. PAINE, JR.
Title FIELD ENGINEER
Witnessed by _____
Company _____

* This is date of completion test.
* Meter error correction factor

REMARKS OF 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
3129	0.304	67.526	13.775	304.704	318.479	564

INITIAL DELIVERABILITY TEST

