

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 West Kuba-Pictured Cliffs Formation Pictured Cliffs County San Juan
El Paso Natural Gas Company Date Test Filed August 6, 1959
Purchasing Pipeline _____ Date Test Filed _____
Operator Pan American Petroleum Corp. Lease Gallegos Canyon Unit Well No. 44
Unit 35 Sec. 29N Twp. 13W Pay Zone: From 1630 To 1697
Casing: OD 5-1/2" WT. 14# Set At 1582 Tubing: OD 1" WT. 3.630 T. Perf. 1684
Produced Through: Casing 7-7-59 Tubing 7-15-59 Gas Gravity: Measured 0.72 Estimated _____
Date of Flow Test: From _____ To _____ * Date S.I.P. Measured Aug. 6, 1959 Flange _____
Meter Run Size _____ Orifice Size _____ Type Chart _____ Type Taps _____

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 26.70 25 psig + 12 = 224 psia (g)
Square root chart average reading (_____) ² x sp. const. _____ = 224 psia (g)
Corrected seven day avge. meter press. (p_f) (g) + (e) _____ = 224 psia (h)
P_i = (h) + (f) 261 = 273 psia (i)
Wellhead casing shut-in pressure (Dwt) _____ psig + 12 = _____ psia (j)
Wellhead tubing shut-in pressure (Dwt) _____ psig + 12 = 273 psia (k)
P_c = (j) or (k) whichever well flowed through 280 = 340 psia (l)
Flowing Temp. (Meter Run) _____ °F + 460 = 137 °Abs (m)
P_d = 1/2 P_c = 1/2 (l) _____ = _____ psia (n)

FLOW RATE CALCULATION

$$Q = \frac{1}{\left(\frac{V(c)}{V(d)} \right)^2} \times \left(\frac{V(c)}{V(d)} \right)^2 = \text{_____ MCF/da}$$

DELIVERABILITY CALCULATION

$$D = Q \left[\frac{P_c^2 - P_d^2}{P_c^2 - P_w^2} \right]^n = \text{_____ MCF/da.}$$

SUMMARY

P_c = 273 psia
Q = 149 Mcf/day
P_w = 224 psia
P_d = 137 psia
D = 301 Mcf/day

Company Pan American Petroleum Corporation
By R. M. Bauer, Jr.
Title Area 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 _i ²
			R ²	(Column 4)
Friction Loss Negligible				

* Purchased by Pipeline Company.

**Shut-in Pressure unavailable. The 261 psig shut-in pressure was obtained by averaging the shut-in pressures on four nearby wells, Gallegos Canyon Unit Nos. 42, 42, 63 and 64, which had shut-in pressures of 260, 262, 260 and 262 psig, respectively.

DELIVERABILITY TEST AFTER WORKOVER

OK