

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)

Initial Deliverability
Test

Pool Un-designated Formation Pictured Cliffs County San Juan
Purchasing Pipeline El Paso Natural Gas Company Date Test Filed February 9, 1959

Operator Pan American Petroleum Corp. Lease E. H. Elliott "B" Well No. 5
Unit E Sec. 26 Twp 30N Rge. 9W Pay Zone: From 2640 To 2695
Casing: OD 5-1/2 WT. 14 Set At 2741 Tubing: OD 1-3/4 WT. 2.3 T. Perf. 2642
Produced Through: Casing X Tubing _____ Gas Gravity: Measured 0.698 Estimated _____
Date of Flow Test: From 1-4-59 To 1-15-59 * Date S.I.P. Measured 9-9-58
Meter Run Size 4" Orifice Size 1.790" Type Chart Eq. 14 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: _____ = _____ psi (f)
(b) - (c) Flow through tubing: (a) - (c) Flow through casing _____
Seven day average static meter pressure (from meter chart):
Normal chart average reading _____ psig + 12 = _____ psia (g)
Square root chart average reading (2.25")² x sp. const. 5 = 263 psia (g)
Corrected seven day avge. meter press. (p_f) (g) + (e) _____ = 263 psia (h)
P_t = (h) + (f) _____ = 263 psia (i)
Wellhead casing shut-in pressure (Dwt) 1041 psig + 12 = 1053 psia (j)
Wellhead tubing shut-in pressure (Dwt) 1041 psig + 12 = 1053 psia (k)
P_c = (j) or (k) whichever well flowed through _____ = 1053 psia (l)
Flowing Temp. (Meter Run) 59 °F + 460 _____ = 512 °Abs (m)
P_d = 1/2 P_c = 1/2 (l) _____ = 527 psia (n)

FLOW RATE CALCULATION

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

DELIVERABILITY CALCULATION

$$D = Q \times \left[\frac{(P_c^2 - P_d^2)}{(P_c^2 - P_w^2)} \right]^n = \text{_____} \text{ MCF/day}$$

SUMMARY

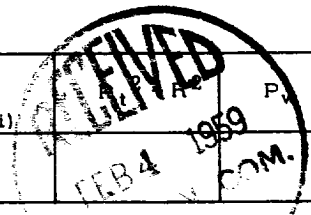
P_c = 1053 psia
Q = 1551* Mcf/day
P_w = 263 psia
P_d = 527 psia
D = 1283 Mcf/day

Company PAN AMERICAN PETROLEUM CORPORATION
By E. H. Dwyer, Jr. R.M. Sauer, 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}) R ²	P _t ² (Column 1)	P _d
Friction Loss Negligible					



*Furnished by pipeline company.

INITIAL DELIVERABILITY TEST

OK