

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 Blanco-Pictured Cliffs Formation Pictured Cliffs County San Juan
Purchasing Pipeline El Paso Natural Gas Company Date Test Filed 11-20-58
Operator PAN AMERICAN PETROLEUM CORP. Lease L. E. 11442a Well No. 2
Unit 2 Sec. 24 Twp. 30N Rge. 12W Pay Zone: From 2700 To 2800
Casing: OD 5-3/2 WT. 24 Set At 2700 Tubing: OD 2.44 WT. 2.3 T. Perf. 2700
Produced Through: Casing I Tubing _____ Gas Gravity: Measured 0.649 Estimated _____
Date of Flow Test: From 10-15-58 To 10-22-58 * Date S.I.P. Measured 7-22-58
Meter Run Size 4 Orifice Size 1.375 Type Chart Sq. Ed. 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 (4.900) ² x sp. const. 10 _____ = _____ psia (g)
Corrected seven day avge. meter press. (p_f) (g) + (e) _____ = _____ psia (h)
P_t = (h) + (f) _____ = _____ psia (i)
Wellhead casing shut-in pressure (Dwt) 970 psig + 12 = 982 psia (j)
Wellhead tubing shut-in pressure (Dwt) 970 psig + 12 = 982 psia (k)
P_c = (j) or (k) whichever well flowed through _____ = _____ psia (l)
Flowing Temp. (Meter Run) 60 °F + 460 _____ = _____ °Abs (m)
P_d = 1/2 P_c = 1/2 (l) _____ = _____ psia (n)

Q = _____ X $\left(\frac{\text{FLOW RATE CALCULATION}}{\sqrt{(c)}} = \frac{\sqrt{(d)}}{\sqrt{(d)}} \right) = \text{_____ MCF/da}$
(integrated)

DELIVERABILITY CALCULATION

D = Q 44.3 $\left[\frac{P_c^2 - P_d^2}{P_c^2 - P_w^2} = \frac{982^2 - 491^2}{982^2 - 982^2} = \frac{723,763}{723,763} \right]^n \cdot \frac{0.983}{1} = \text{_____ 432 MCF/da.}$

SUMMARY

P_c = 982 psia
Q = 44.3 Mcf/day
P_w = 491 psia
P_d = 491 psia
D = 432 Mcf/day

Company PAN AMERICAN PETROLEUM CORPORATION
By L. E. Sawyer, Jr. Rm/Sawyer 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 R ²	(1-e ^{-S})	P _t ² (Column i)	P _t ² + R ²	P _w

Friction loss negligible

*Furnished by pipeline company



QC