

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 El Paso Mesaverde Formation Mesaverde County San Juan
Purchasing Pipeline El Paso Natural Gas Company Date Test Filed June 6, 1961

Operator Pan American Petroleum Corp. Lease Complete Gas Unit Well No. 1
Unit W/H Sec. 10 Twp. 11N Rge. 10W Pay Zone: From 5170 To 5070
Casing: OD 7 WT. 20 Set At 5170 Tubing: OD 2-1/8 WT. 4.7 T. Perf. 5000
Produced Through: Casing I Tubing I Gas Gravity: Measured .60 Estimated 0.600
Date of Flow Test: From May 7, 1961 To May 15, 1961 * Date S.I.P. Measured July 22, 1960
Meter Run Size 4" Orifice Size 1.900 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: _____ = _____ 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 x sp. const. _____ = _____ psia (g)
Corrected seven day avge. meter press. (b_f) (g) + (e) _____ = _____ psia (h)
P_t = (h) + (f) _____ = _____ psia (i)
Wellhead casing shut-in pressure (Dwt) _____ psig + 12 = _____ psia (j)
Wellhead tubing shut-in pressure (Dwt) _____ psig + 12 = _____ psia (k)
P_c = (j) or (k) whichever well flowed through _____ = _____ psia (l)
Flowing Temp. (Meter Run) _____ °F + 460 _____ = _____ °Abs (m)
P_d = 1/2 P_c = 1/2 (l) _____ = _____ psia (n)

FLOW RATE CALCULATION

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

DELIVERABILITY CALCULATION

$$D = Q \text{ } 1977 \times \left[\frac{(P_c^2 - P_d^2)}{(P_c^2 - P_w^2)} \right]^n = 1.199 = 2274 \text{ MCF/da.}$$

SUMMARY

P_c = _____ psia
Q = _____ Mcf/day
P_w = _____ psia
P_d = _____ psia
D = _____ Mcf/day

Company Pan American Petroleum Corporation
By H. H. Bauer, Jr.
Title Senior Petroleum 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 i)	P _t ² + R ²	P _w
1977	.213	205,513	73,594	261,383	334,975	579

* Furnished by pipeline company

Initial Deliverability After Verification

