

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

Operator Pan American Petroleum Corp. Lease Sullivan Gas Unit Well No. 1
Unit H Sec. 22 Twp. 34N Rge. 10W Pay Zone: From 4590 To 5100
Casing: OD 7 WT. 20 & 23 Set At 4559 Tubing: OD 2-3/8 WT. 4.7 T. Perf. 5170
Produced Through: Casing _____ Tubing X Gas Gravity: Measured .630 Estimated _____
Date of Flow Test: From May 1, 1961 To May 8, 1961 Date S.I.P. Measured July 22, 1960
Meter Run Size 4" Orifice Size 1.500 Type Chart Eq. 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 (7.45) 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) 906 psig + 12 = 918 psia (j)
Wellhead tubing shut-in pressure (Dwt) 906 psig + 12 = 918 psia (k)
P_c = (j) or (k) whichever well flowed through _____ = 918 psia (l)
Flowing Temp. (Meter Run) 72 °F + 460 _____ = 532 °Abs (m)
P_d = 1/2 P_c = 1/2 (l) _____ = 459 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

$$D = Q \times 812 \left[\frac{P_c^2 - P_d^2}{P_c^2 - P_w^2} = \frac{632,043}{522,402} \right]^n \times 1.1535 = 937 \text{ MCF/da.}$$

SUMMARY

P_c = 918 psia
Q = 812 Mcf/day
P_w = 566 psia
P_d = 459 psia
D = 937 Mcf/day

Company Pan American Petroleum Corporation
By R. 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
3257	.211	58.278	12.297	308.025	320.322	566

* Furnished by pipeline company

Initial Deliverability After Workover



