

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 Kato-Fruitland Formation Fruitland County San Juan
Purchasing Pipeline El Paso Natural Gas Company Date Test Filed May 18, 1960

Operator Pan American Petroleum Corp. Lease Gallegos Canyon Unit Well No. 77
Unit H Sec. 10 Twp. 29N Rge. 12E Pay Zone: From 1165 To 1191
Casing: OD 5-1/2 WT. 14 Set At 1500 Tubing: OD 1-1/4 WT. 2.3 T. Perf. 1217
Produced Through: Casing I Tubing _____ Gas Gravity: Measured 0.660 Estimated _____
Date of Flow Test: From 4-21-60 To 4-29-60 * Date S.I.P. Measured 6-30-59
Meter Run Size 4" Orifice Size 1.250 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:
(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 (6.90) ² x sp. const. 5 _____ = 230 psia (g)
Corrected seven day avge. meter press. (p_f) (g) + (e) _____ = 230 psia (h)
P_t = (h) + (f) _____ = 230 psia (i)
Wellhead casing shut-in pressure (Dwt) _____ 370 psig + 12 = 382 psia (j)
Wellhead tubing shut-in pressure (Dwt) _____ 370 psig + 12 = 382 psia (k)
P_c = (j) or (k) whichever well flowed through _____ = 382 psia (l)
Flowing Temp. (Meter Run) _____ 97 °F + 460 _____ = 927 °Abs (m)
P_d = 1/2 P_c = 1/2 (l) _____ = 191 psia (n)

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

DELIVERABILITY CALCULATION

D = Q 2020 $\left[\frac{(P_c^2 - P_d^2) = \text{_____}}{(P_c^2 - P_w^2) = \text{_____}} \right]^n \text{_____} \text{_____} = \text{_____} \text{_____} \text{ MCF/da.}$
209,443 89,200 1.189 240

SUMMARY

P_c = 382 psia Company Pan American Petroleum Corporation
Q = 202 Mcf/day By R. M. Bauer, Jr.
P_w = 230 psia Title Area Engineer
P_d = 191 psia Witnessed by _____
D = 240 Mcf/day 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
Friction Loss Negligible						

*Furnished by Pipeline Company



