

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 Pictured Cliffs Formation Pictured Cliffs County San Juan
Purchasing Pipeline El Paso Natural Gas Company Date Test Filed August 11, 1960
Operator Pan American Petroleum Corp. Lease Elliot Gas Unit "K" Well No. 1
Unit 0 Sec. 26 Twp. 30N Rge. 9W Pay Zone: From 2479 To 2497
Casing: OD 4-1/2 WT. 9.5 Set At 2585 Tubing: OD 1-1/4 WT. 2.3 T. Perf. 2479
Produced Through: Casing X Tubing _____ Gas Gravity: Measured .645* Estimated _____
Date of Flow Test: From 7-22-60 To 7-29-60 * Date S.I.P. Measured 5-6-60
Meter Run Size 4" Orifice Size 2.000 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 (7.35*)² x sp. const. 5 _____ = 270 psia (g)
Corrected seven day avge. meter press. (P_f) (g) + (e) _____ = 270 psia (h)
P_t = (h) + (f) _____ = 270 psia (i)
Wellhead casing shut-in pressure (Dwt) _____ 1031 psig + 12 = 1043 psia (j)
Wellhead tubing shut-in pressure (Dwt) _____ 1031 psig + 12 = 1043 psia (k)
P_c = (j) or (k) whichever well flowed through _____ = 1043 psia (l)
Flowing Temp. (Meter Run) 65* °F + 460 _____ = 525 °Abs (m)
P_d = 1/2 P_c = 1/2 (l) _____ = 522 psia (n)

FLOW RATE CALCULATION

Q = _____ X $\left(\frac{\sqrt{(c)}}{\sqrt{(d)}} \right)^* =$ _____ MCF/day
(integrated)

DELIVERABILITY CALCULATION

D = Q 848* $\left[\frac{P_c^2 - P_d^2}{P_c^2 - P_w^2} \right]^n$.830 = 704 MCF/day.

SUMMARY

P_c = 1043 psia Company Pan American Petroleum Corporation
Q = 848* Mcf/day By R. M. Bower, Jr.
P_w = 270 psia Title Area Engineer
P_d = 522 psia Witnessed by _____
D = 704 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

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