

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 South Alamosa-Pictured Cliffs Formation Pictured Cliffs County Rio Arriba
Purchasing Pipeline Pacific Northwest Pipeline Corporation Date Test Filed 4-2-59
Operator PAN AMERICAN PETROLEUM CORP. Lease Alamosa Gas Unit "A" Well No. 1
Unit 6 Sec. 31 Twp. 26N Rge. 9W Pay Zone: From 2602 To 2706
Casing: OD 5-1/2 WT. 14 Set At 2779 Tubing: OD 2-3/8 WT. 4.7 T. Perf. 2679
Produced Through: Casing Tubing X Gas Gravity: Measured 0.673 Estimated
Date of Flow Test: From 3-27-59 To 3-28-59 * Date S.I.P. Measured 3-27-59
Meter Run Size 4 Orifice Size 2.900 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:
(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 (_____) ² x sp. const. 2.90 = 961 psia (g)
Corrected seven day avge. meter press. (P_f) (g) + (e) _____ = 961 psia (h)
P_t = (h) + (f) _____ = 961 psia (i)
Wellhead casing shut-in pressure (Dwt) 900 psig + 12 = 992 psia (j)
Wellhead tubing shut-in pressure (Dwt) 900 psig + 12 = 992 psia (k)
P_c = (j) or (k) whichever well flowed through _____ = 992 psia (l)
Flowing Temp. (Meter Run) 69 °F + 460 _____ = 529 ° Abs (m)
P_d = 1/2 P_c = 1/2 (l) _____ = 496 psia (n)

FLOW RATE CALCULATION

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

DELIVERABILITY CALCULATION

D = Q 1490 $\left[\frac{P_c^2 - P_d^2}{P_c^2 - P_w^2} \right]^n =$ 1.1212 = 1490 MCF/da.

SUMMARY

P_c = 992 psia
Q = 1490 Mcf/day
P_w = 902 psia
P_d = 496 psia
D = 1490 Mcf/day

Company PAN AMERICAN PETROLEUM CORPORATION
By D. H. Bower, 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 (1-e ^{-S}) R ²	P _t ² (Column i)	P _t ² + R ²	P _w
1790	0.122	190,359	24,200	314,721	338,921	902

*Furnished by pipeline company

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