

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 Gavilan-Pictured Cliffs Formation Pictured Cliffs County Rio Arriba
Purchasing Pipeline El Paso Natural Gas Company Date Test Filed 10-29-63

Operator PAN AMERICAN PETROLEUM CORP. Lease Jicarilla Apache 118 "A" Well No. 3
Unit A Sec. 25 Twp. 26N Rge. 3W Pay Zone: From 3966 To 4029
Casing: OD 4-1/2 WT. 9.5 Set At 4125 Tubing: OD 1-1/2 WT. 2.9 T. Perf. 4003
Produced Through: Casing _____ Tubing X Gas Gravity: Measured .677 Estimated _____
Date of Flow Test: From 10-1-63 To 10-9-63 * Date S.I.P. Measured 5-6-62
Meter Run Size 4" Orifice Size 1.750 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 (7.00) ² x sp. const. 5 _____ = 245 psia (g)
Corrected seven day avge. meter press. (P_f) (g) + (e) _____ = 245 psia (h)
P_t = (h) + (f) _____ = 245 psia (i)
Wellhead casing shut-in pressure (Dwt) 959 psig + 12 = 971 psia (j)
Wellhead tubing shut-in pressure (Dwt) 959 psig + 12 = 971 psia (k)
P_c = (j) or (k) whichever well flowed through _____ = 971 psia (l)
Flowing Temp. (Meter Run) _____ °F + 460 _____ = _____ ° Abs (m)
P_d = 1/2 P_c = 1/2 (l) _____ = 486 psia (n)

FLOW RATE CALCULATION

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

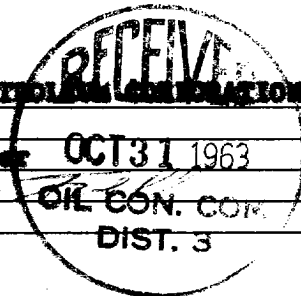
DELIVERABILITY CALCULATION

D = Q 1158 $\left[\frac{P_c^2 - P_d^2}{P_c^2 - P_w^2} \right]^n = \text{_____ MCF/da.}$
706,645 .8833 1023
817,784

SUMMARY

P_c = 971 psia
Q = 1158 Mcf/day
P_w = 354 psia
P_d = 486 psia
D = 1023 Mcf/day

Company PAN AMERICAN PETROLEUM CORPORATION
By F. L. Nabors
Title District Engineer
Witnessed by By OIL CON. COM.
Company F. W. Foell DIST. 3



- * 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
2711	.179	363.310	65.032	60,025	125,057	354