

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 _____ Formation Pictured Cliffs County San Juan
Purchasing Pipeline El Paso Natural Gas Co. Date Test Filed September 11, 1959
Operator Petro-Atlas, Inc. Well No. 1
Unit F Sec. 8 Twp. 27N Rge. 9W Pay Zone: From 2412' To 2441'
Casing: OD 5 1/2" WT. 15.5 Set At 2516' Tubing: OD 1 1/2" WT. 2.4 T. Perf. 2406'
Produced Through: Casing X Tubing _____ Gas Gravity: Measured .627 Estimated _____
Date of Flow Test: From _____ To _____ * Date S.I.P. Measured _____
Meter Run Size _____ Orifice Size 1.250 Type Chart Sq Root Type Taps _____

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) 618 psig + 12 = 630 psia (j)
Wellhead tubing shut-in pressure (Dwt) 618 psig + 12 = 630 psia (k)
P_c = (j) or (k) whichever well flowed through _____ = 630 psia (l)
Flowing Temp. (Meter Run) 51 °F + 460 _____ = 515 ° Abs (m)
P_d = 1/2 P_c = 1/2 (l) _____ = 315 psia (n)

FLOW RATE CALCULATION

Q = 357 X $\left(\frac{\sqrt{(c)}}{\sqrt{(d)}} \right) =$ _____ MCF/da
(Integrated)

DELIVERABILITY CALCULATION

D = Q 357 $\left[\frac{(P_c^2 - P_d^2)}{(P_c^2 - P_w^2)} \right]^{.90} =$ 321.30 MCF/da.

SUMMARY

P_c = 630 psia
Q = 357 Mcf/day
P_w = 245 psia
P_d = 315 psia
D = 321.30 Mcf/day

Company Petro-Atlas, Inc.
By James L. Gentry
Title Superintendent
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
1512	.104	.09598	.009982	60.025	60.035	245

OK

Received
9-11-59