

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 Elmore Formation Pictured Cliffs County San Juan
Purchasing Pipeline El Paso Natural Gas Company Date Test Filed 11-4-55
Operator Confidential Pet. Corp. Lease V Well No. 2-4
Unit 8 Sec. 8 Twp. 36N Rge. 6W Pay Zone: From 2004 To 2006
Casing: OD 8 7/8" WT. 6.5 Set At 2000 Tubing: OD " WT. " T. Perf. "
Produced Through: Casing I Tubing " Gas Gravity: Measured .800 Estimated "
Date of Flow Test: From 11-4-55 To 11-10-55 * Date S.I.P. Measured 1-22-56
Meter Run Size 4 Orifice Size 1.800 Type Chart 1-10 Type Taps 21

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 (7.25) ² x spring constant _____ = 5.13 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 (7.25) ² x sp. const. 10.00 = 5.20 psia (g)
Corrected seven day avge. meter press. (p_f) (g) + (e) _____ = 5.20 psia (h)
P_t = (h) + (f) _____ = 5.20 psia (i)
Wellhead casing shut-in pressure (Dwt) 1000 psig + 12 = 1104 psia (j)
Wellhead tubing shut-in pressure (Dwt) _____ psig + 12 = _____ psia (k)
P_c = (j) or (k) whichever well flowed through _____ = 1104 psia (l)
Flowing Temp. (Meter Run) 80 °F + 460 _____ = 540 °Abs (m)
P_d = 1/2 P_c = 1/2 (l) _____ = 552 psia (n)

Q = 424 X $\left(\frac{\text{FLOW RATE CALCULATION}}{\frac{\sqrt{(c)}}{\sqrt{(d)}}} \right) = \text{_____ MCF/da}$
(Integrated)

DELIVERABILITY CALCULATION

D = Q 424 $\left[\frac{P_c^2 - P_d^2}{P_c^2 - P_w^2} \right]^n = \frac{0.000}{(0.0000) R} = \text{_____ MCF/da.}$

SUMMARY

P_c = 1104 psia
Q = 424 Mcf/day
P_w = 552 psia
P_d = 552 psia
D = 427 Mcf/day

Company Confidential Petroleum Corporation
By RAY PHILLIPS
Title Supervisor
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 l)	P _t ² + R ²	P _w
<u>2000</u>	<u>0.140</u>	<u>8.201</u>	<u>707</u>	<u>204,400</u>	<u>204,576</u>	<u>552.7</u>

Po = 8,000

OK

