

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 Basin Dakota Formation Dakota County San Juan
El Paso Natural Gas Company Date Test Filed 9-23-61
Purchasing Pipeline _____

Operator ADORE OIL COMPANY Lease Killott Well No. 1
Unit 24 Sec. 13N Twp. 31E Rge. 13W Pay Zone: From 6518 To 6640
Casing: OD _____ WT. _____ Set At 1 Tubing: OD _____ WT. _____ T. Perf. .70
Produced Through: Casing 8-14-61 Tubing 8-21-61 Gas Gravity: Measured 8-28-61 Estimated _____
Date of Flow Test: From 8-03-61 To 1-00 Date S.I.P. Measured 02-10 712
Meter Run Size _____ Orifice Size _____ Type Chart _____ Type Taps _____

OBSERVED DATA

Flowing casing pressure (Dwt) 670 psig + 12 = 682 psia (a)
Flowing tubing pressure (Dwt) 493 psig + 12 = 505 psia (b)
Flowing meter pressure (Dwt) 475 psig + 12 = 487 psia (c)
Flowing meter pressure (meter reading when Dwt. measurement taken:
Normal chart reading 6.8 10 psig + 12 = 462 psia (d)
Square root chart reading (_____) ² x spring constant _____ = 487 25 psia (d)
Meter error (c) - (d) or (d) - (c) ± _____ = _____ psi (e)
Friction loss, Flowing column to meter: 18
(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 6.8 10 psig + 12 = 462 psia (g)
Square root chart average reading (_____) ² x sp. const. _____ = 487 psia (g)
Corrected seven day avge. meter press. (p_f) (g) + (e) _____ = 505 psia (h)
P_t = (h) + (f) 1711 = 1729 psia (i)
Wellhead casing shut-in pressure (Dwt) 1673 psig + 12 = 1685 psia (j)
Wellhead tubing shut-in pressure (Dwt) _____ psig + 12 = 1685 psia (k)
P_c = (j) or (k) whichever well flowed through 80 = 540 psia (l)
Flowing Temp. (Meter Run) _____ °F + 460 = 342 °Abs (m)
P_d = ½ P_c = ½ (l) _____ = _____ psia (n)

FLOW RATE CALCULATION

Q = 371 X $\left(\frac{\frac{487}{\sqrt{(c)}} = \frac{22.07}{\sqrt{(d)}} = \frac{1.027}{\sqrt{(d)}}}{\frac{462}{\sqrt{(d)}} = \frac{21.40}{\sqrt{(d)}}} \right) = \frac{381}{\text{MCF/day}}$
(Integrated)

DELIVERABILITY CALCULATION

D = Q 381 $\left[\frac{P_c^2 - P_d^2}{P_c^2 - P_w^2} \right]^n = \frac{2130261}{2580144} \cdot .8661 = \frac{330}{\text{MCF/day}}$

SUMMARY

P_c = 540 psia
Q = 381 Mcf/day
P_w = 542 psia
P_d = 267 psia
D = 330 Mcf/day

ADORE OIL COMPANY

Company Adore Oil Company
By A. T. Sindel, Vice-President
Title Louis Kramer
Witnessed by Adore Oil Company
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
4648	.287	12.83	3.68	255	258.68	509

