

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 Tapacito Formation Pictured Cliffs County Rio Arriba
Purchasing Pipeline EPNG Date Test Filed 1-27-65
Operator Socrony Mobil Oil Co., Inc. Lease Jicarilla B Well No. 7
Unit M Sec. 10 Twp. 26N Rge. 3W Pay Zone: From 3646 To 3674
Casing: OD 4-1/2 WT. 9.5 Set At 3770 Tubing: OD 2-3/8 WT. 4.7 T. Perf. 3646
Produced Through: Casing _____ Tubing X Gas Gravity: Measured _____ Estimated _____
Date of Flow Test: From 12-6-64 To 12-14-64 * Date S.I.P. Measured 8-31-64
Meter Run Size 4 Orifice Size _____ Type Chart Sq. Rt. Type Taps Fig.

OBSERVED DATA

Flowing casing pressure (Dwt) _____ psig + 12 = _____ psia (a)
Flowing tubing pressure (Dwt) 602 psig + 12 = 614 psia (b)
Flowing meter pressure (Dwt) 600 psig + 12 = 612 psia (c)
Flowing meter pressure (meter reading when Dwt. measurement taken:
Normal chart reading _____ psig + 12 = _____ psia (d)
Square root chart reading (7.8)² x spring constant 10 = 608 psia (d)
Meter error (c) - (d) or (d) - (c) ± = 4 psi (e)
Friction loss, Flowing column to meter:
(b) - (c) Flow through tubing: (a) - (c) Flow through casing = 12 psi (f)
Seven day average static meter pressure (from meter chart):
Normal chart average reading 536 psig + 12 = 548 psia (g)
Square root chart average reading (_____)² x sp. const. = _____ psia (g)
Corrected seven day avge. meter press. (p_f) (g) + (e) = 552 psia (h)
P_t = (h) + (f) = 554 psia (i)
Wellhead casing shut-in pressure (Dwt) _____ psig + 12 = _____ psia (j)
Wellhead tubing shut-in pressure (Dwt) 1019 psig + 12 = 1031 psia (k)
P_c = (j) or (k) whichever well flowed through = 1031 psia (l)
Flowing Temp. (Meter Run) _____ °F + 460 = 825 °Abs (m)
P_d = 1/2 P_c = 1/2 (l) = _____ psia (n)

Q = 590 (integrated) X $\left(\frac{\text{FLOW RATE CALCULATION}}{\sqrt{(c) 612} = 1.007 = 1.004} \right)^* = \underline{592} \text{ MCF/da}$

DELIVERABILITY CALCULATION

D = Q 592 $\left[\frac{(P_c^2 - P_d^2)}{(P_c^2 - P_w^2)} \right]^n = \underline{5091.85} \underline{5634} = \underline{334} \text{ MCF/da.}$

SUMMARY

P_c = 1031 psia
Q = 592 Mcf/day
P_w = 559 psia
P_d = 825 psia
D = 334 Mcf/day

Company Socrony Mobil Oil Co.
By R. W. Mansley
Title Production Foreman
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
2421	0.161	30.980	4.988	306.916	311.904	559

MMOCC Aztec 3
EPNG Farmington 2
R. W. Mansley 1
File 1

