

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 Tapesito Formation Pictured Cliffs County Mio Arriba
Purchasing Pipeline EPMB Date Test Filed 1-27-65
Operator Sanony Mobil Oil Co., Inc. Lease Hearlita C Well No. 5
Unit 4 Sec. 8 Twp. 28N Rge. 3E Pay Zone: From 3761 To 3806
Casing: OD 4-1/2 WT. 9.5 Set At 3000 Tubing: OD 2-3/8 WT. 4.7 T. Perf. 3761
Produced Through: Casing _____ Tubing X Gas Gravity: Measured .678 Estimated _____
Date of Flow Test: From 06-64 To 12-14-64 * Date S.I.P. Measured 9-4-64
Meter Run Size 4 Orifice Size _____ Type Chart 24. RT. Type Taps Fig.

OBSERVED DATA

Flowing casing pressure (Dwt) _____ psig + 12 = 361 513 psia (a)
Flowing tubing pressure (Dwt) _____ psig + 12 = 360 572 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 (7.30)² x spring constant 10 = 363 psia (d)
Meter error (c) - (d) or (d) - (c) ± _____ = +9 psi (e)
Friction loss, Flowing column to meter: _____ = +1 psi (f)
(b) - (c) Flow through tubing: (a) - (c) Flow through casing
Seven day average static meter pressure (from meter chart):
Normal chart average reading _____ psig + 12 = _____ psia (g)
Square root chart average reading (7.40)² x sp. const. 10 = 348 psia (g)
Corrected seven day avge. meter press. (p_f) (g) + (e) = 357 psia (h)
P_t = (h) + (f) = 358 psia (i)
Wellhead casing shut-in pressure (Dwt) 1040 psig + 12 = 1052 psia (j)
Wellhead tubing shut-in pressure (Dwt) 1030 psig + 12 = 1042 1032 psia (k)
P_c = (j) or (k) whichever well flowed through = 1032 psia (l)
Flowing Temp. (Meter Run) _____ °F + 460 = _____ °Abs (m)
P_d = 1/2 P_c = 1/2 (l) = 516 psia (n)

Q = 921 X $\left(\frac{\frac{P_c^2 - P_d^2}{P_c^2 - P_w^2} = \frac{1052^2 - 516^2}{1052^2 - 358^2} = \frac{1.006}{1.008} \right) = \underline{920} MCF/day
(Integrated)$

DELIVERABILITY CALCULATION

D = Q 920 $\left[\frac{P_c^2 - P_d^2}{P_c^2 - P_w^2} \right] = \frac{1052^2 - 516^2}{1052^2 - 358^2} = \underline{.9620} = 922 MCF/day$

SUMMARY

P_c = 1032 psia
Q = 920 Mcf/day
P_w = 370 psia
P_d = 516 psia
D = 922 Mcf/day

Company Sanony Mobil Oil Co., Inc.
By H. H. Hunsley
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
<u>2800</u>	<u>0.160</u>	<u>77.001</u>	<u>13.162</u>	<u>311.364</u>	<u>324.526</u>	<u>370</u>

NMCC Actos -3
EPMB Farmington-2
H. H. Hunsley-1
File-1

