

Initial Deliverability
Test

Form C-122-A
Revised April 20, 1955

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 Blanco Mesaverde Formation Mesaverde County Rio Arriba
Purchasing Pipeline El Paso Natural Gas Co. Date Test Filed 8/18/60
Operator Socorey Mobil Oil Co., Inc. Lease Jicarilla "P" Well No. 2
Unit M Sec. 27 Twp. 27N Rge. 3W Pay Zone: From 5778' To 6326'
Casing: OD 5 1/2" WT. 11# Set At 6365 Tubing: OD 2-3/8" WT. 4.7# T. Perf. 6313
Produced Through: Casing _____ Tubing x Gas Gravity: Measured .658 Estimated _____
Date of Flow Test: From 7/22/60 To 7/30/60 * Date S.I.P. Measured 8/6/60
Meter Run Size 4.026 Orifice Size 0.750 Type Chart 8q Rt Type Taps Flg.

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 (5.96)² x spring constant 15 = _____ 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 (5.80)² x sp. const. 15 = _____ psia (g)
Corrected seven day avge. meter press. (p_f) (g) + (e) _____ = _____ psia (h)
P_t = (h) + (f) _____ = _____ psia (i)
Wellhead casing shut-in pressure (Dwt) _____ psig + 12 = _____ psia (j)
Wellhead tubing shut-in pressure (Dwt) _____ psig + 12 = _____ psia (k)
P_c = (j) or (k) whichever well flowed through _____ = _____ psia (l)
Flowing Temp. (Meter Run) 76 °F + 460 _____ = _____ °Abs (m)
P_d = 1/2 P_c = 1/2 (l) _____ = _____ psia (n)

Q = 187 X $\left(\frac{\text{FLOW RATE CALCULATION}}{\sqrt{(c)}} = \frac{0.9962}{\sqrt{(d)}} = \frac{0.9981}{\sqrt{(d)}} \right) = \underline{187} \text{ MCF/da}$
(Integrated)

DELIVERABILITY CALCULATION
D = Q 187 $\left[\frac{(P_c^2 - P_d^2) = \underline{437,772}}{(P_c^2 - P_w^2) = \underline{328,873}} \right]^{0.75} = \frac{0.75}{1.331} = \frac{0.75}{1.2392} = \underline{232} \text{ MCF/da.}$

SUMMARY
P_c = 764 psia Company Socorey Mobil Oil Company, Inc.
Q = 187 Mcf/day By H. J. Dvoracek
P_w = 505 psia Title Prod. Engr.
P_d = 382 psia Witnessed by _____
D = 232 Mcf/day 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>1154</u>	<u>0.261</u>	<u>3.091</u>	<u>0.807</u>	<u>254,016</u>	<u>254,823</u>	<u>505</u>

