

Initial Deliverability
TestNEW 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 El Paso Natural Gas Company Date Test Filed 7/24/61

Operator Socony Mobil Oil Co., Inc. Lease Jicarilla "C" Well No. 2
Unit N Sec. 7 Twp. 26N Rge. 3W Pay Zone: From 3590' To 3641'
Casing: OD 7-5/8" WT. 24#/ft. Set At 3854' Tubing: OD 2-3/8" WT. 4.7#/ft. T. Perf. 3550
Produced Through: Casing x Tubing x Gas Gravity: Measured 0.675 Estimated 0.675
Date of Flow Test: From 6/28/61 To 7/6/61 * Date S.I.P. Measured 7/13/61
Meter Run Size 4.025" Orifice Size 0.750" Type Chart L-10 Type Taps Flange

OBSERVED DATA

Flowing casing pressure (Dwt) _____ psig + 12 = _____ psia (a)
Flowing tubing pressure (Dwt) _____ psig + 12 = _____ psia (b)
Flowing meter pressure (Dwt) 563 psig + 12 = 575 psia (c)
Flowing meter pressure (meter reading when Dwt. measurement taken: 561 psig + 12 = 573 psia (c)
Normal chart reading _____ psig + 12 = _____ psia (d)
Square root chart reading (7.55)² x spring constant _____ = _____ psia (d)
Meter error (c) - (d) or (d) - (c) ± 10 = 570 psi (e)
Friction loss, Flowing column to meter: +3 psi (f)
(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 (7.50)² x sp. const. 10 = _____ psia (g)
Corrected seven day avge. meter press. (p_f) (g) + (e) _____ = 563 psia (h)
P_t = (h) + (f) _____ = 566 psia (i)
Wellhead casing shut-in pressure (Dwt) _____ psig + 12 = 568 psia (j)
Wellhead tubing shut-in pressure (Dwt) _____ psig + 12 = _____ psia (k)
P_c = (j) or (k) whichever well flowed through 814 = 826 psia (l)
Flowing Temp. (Meter Run) _____ °F + 460 = 826 °Abs (m)
P_d = 1/2 P_c = 1/2 (l) _____ = 525 psia (n)
413

FLOW RATE CALCULATION

$$Q = \frac{314}{(\text{integrated})} \times \left(\frac{\sqrt{(c)}}{\sqrt{(d)}} = \frac{573}{570} = 1.005 = 1.003 \right) = 315 \text{ MCF/day}$$

DELIVERABILITY CALCULATION

$$D = Q \frac{315}{\left[\frac{P_c^2 - P_d^2}{P_c^2 - P_w^2} \right]^{1/2}} = 1.428^{0.85} \cdot 1.3337 = 426 \text{ MCF/day}$$

SUMMARY

P_c = 826 psia
Q = 315 Mcf/day
P_w = 369 psia
P_d = 413 psia
D = 426 Mcf/day

Company Socony Mobil Oil Company, Inc.
By H. J. Dvoracek
Title Prod. Engr.
Witnessed by H. J. Dvoracek, Jr.
Company _____

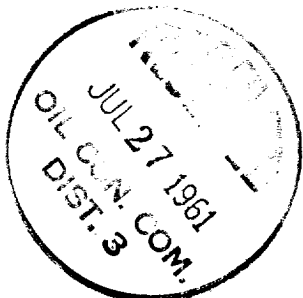
* This is date of completion test.

* 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
2396	0.160	8.773	1.404	322,624	324,028	569

cc: NMOC (3)
RCM (1)
EPNG (2)
Fngth (1)



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