

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 Blanco Formation Mesaverde County San Juan
Purchasing Pipeline Southern Union Gas Co. Date Test Filed November 2, 1961
Operator Consolidated Oil & Gas, Inc. Lease Kline Well No. 1-10
Unit G Sec. 10 Twp. 31N Rge. 13W Pay Zone: From 4285 To 4458
Casing: OD 5 1/2 WT. 15.5 Set At 6686 Tubing: OD 1.315 WT. 1.80 T. Perf. 4215
Produced Through: Casing _____ Tubing X Gas Gravity: Measured .684 Estimated _____
Date of Flow Test: From 10-16-61 To 10-24-61 * Date S.I.P. Measured 10-31-61
Meter Run Size 4.000 Orifice Size 0.500 Type Chart L-10 Type Taps Flange

OBSERVED DATA

Flowing casing pressure (Dwt) 554 psig + 12 = 566 psia (a)
Flowing tubing pressure (Dwt) 510 psig + 12 = 522 psia (b)
Flowing meter pressure (Dwt) 504 psig + 12 = 516 psia (c)
Flowing meter pressure (meter reading when Dwt. measurement taken:
Normal chart reading _____ psig + 12 = _____ psia (d)
Square root chart reading (7.21)² x spring constant _____ = 520 psia (d)
Meter error (c) - (d) or (d) - (c) _____ ± _____ = - 4 psi (e)
Friction loss, Flowing column to meter: _____ = 6 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 (7.2)² x sp. const. _____ = 518 psia (g)
Corrected seven day avge. meter press. (p_f) (g) + (e) _____ = 514 psia (h)
_____ = 520 psia (i)
P_t = (h) + (f) _____ = 916 psia (j)
Wellhead casing shut-in pressure (Dwt) 904 psig + 12 = 916 psia (j)
Wellhead tubing shut-in pressure (Dwt) 902 psig + 12 = 914 psia (k)
_____ = 914 psia (l)
P_c = (j) or (k) whichever well flowed through _____ = 914 psia (l)
Flowing Temp. (Meter Run) 64 °F + 460 _____ = 524 °Abs (m)
P_d = 1/2 P_c = 1/2 (l) _____ = 457 psia (n)

FLOW RATE CALCULATION

$$Q = \frac{126}{(\text{Integrated})} \times \left(\frac{\sqrt{(c)} = \frac{2271563}{2280351} = .9961}{\sqrt{(d)}} \right) = 126 \text{ MCF/da}$$

DELIVERABILITY CALCULATION

$$D = Q \frac{126}{\left[\frac{P_c^2 - P_d^2}{P_c^2 - P_w^2} = \frac{626547}{558805} \right]^n} = 146 \text{ MCF/da.}$$

SUMMARY

P_c = 914 psia
Q = 126 Mcf/day
P_w = 526 psia
P_d = 457 psia
D = 146 Mcf/day

Company Consolidated Oil & Gas, Inc.
By [Signature]
Title Chief Engineer
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
2883	.189	32.758	6.191	270.400	276.591	526

