

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 Basin Formation Dakota County San Juan
Purchasing Pipeline Southern Union Gas Co. Date Test Filed August 4, 1961

Operator Consolidated Oil & Gas, Inc. Lease Consolidated-Hale Well No. 2-15
Unit C Sec. 15 Twp. 26N Rge. 8W Pay Zone: From 7228' To 7414'
Casing: OD 5 1/2 WT. 15.5 Set At 7435' Tubing: OD 1.90 WT. 2.9 T. Perf. 7225
Produced Through: Casing _____ Tubing X Gas Gravity: Measured .690 Estimated _____
Date of Flow Test: From 7-24-61 To 8-1-61 * Date S.I.P. Measured 6-30-61
Meter Run Size 4.00 Orifice Size 1.750 Type Chart L-10 Type Taps Flange

OBSERVED DATA

Flowing casing pressure (Dwt) (Mesa Verde) psig + 12 = _____ psia (a)
Flowing tubing pressure (Dwt) 430 psig + 12 = 442 psia (b)
Flowing meter pressure (Dwt) 189 psig + 12 = 201 psia (c)
Flowing meter pressure (meter reading when Dwt. measurement taken):
Normal chart reading _____ psig + 12 = _____ psia (d)
Square root chart reading (4.25)² x spring constant 10 = 181 psia (d)
Meter error (c) - (d) or (d) - (c) ± _____ = 20 psi (e)
Friction loss, Flowing column to meter:
(b) - (c) Flow through tubing: (a) - (c) Flow through casing = 241 psi (f)
Seven day average static meter pressure (from meter chart):
Normal chart average reading _____ psig + 12 = _____ psia (g)
Square root chart average reading (4.2)² x sp. const. 10 = 176 psia (g)
Corrected seven day avge. meter press. (p_f) (g) + (e) = 196 psia (h)
P_t = (h) + (f) = 437 psia (i)
Wellhead casing shut-in pressure (Dwt) - psig + 12 = _____ psia (j)
Wellhead tubing shut-in pressure (Dwt) 1940 psig + 12 = 1952 psia (k)
P_c = (j) or (k) whichever well flowed through = 1952 psia (l)
Flowing Temp. (Meter Run) 76 °F + 460 = 536 °Abs (m)
P_d = 1/2 P_c = 1/2 (l) = 976 psia (n)

FLOW RATE CALCULATION

$$Q = \frac{788}{(\text{integrated})} \times \left(\frac{\sqrt{(c)} = 14.17745}{\sqrt{(d)} = 13.45362} = 1.0538 \right)^* = 830 \text{ MCF/da}$$

DELIVERABILITY CALCULATION

$$D = Q \frac{830}{\left[\frac{P_c^2 - P_d^2}{P_c^2 - P_w^2} = \frac{2857728}{3562595} \right]^n \cdot .80215^n} = 704 \text{ MCF/da.}$$

SUMMARY

P_c = 1952 psia
Q = 830 Mcf/day
P_w = 498 psia
P_d = 976 psia
D = 704 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
4985	.304	186.645	56.740	190969	247.709	498

