

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 Tapicito Formation Pictured Cliffs County Rio Arriba
Purchasing Pipeline El Paso Natural Gas Co. Date Test Filed February 7, 1963
Operator Consolidated Oil & Gas, Inc. Lease Tribal "C" Well No. 10-7
Unit J Sec. 7 Twp. 26N Rge. 3W Pay Zone: From 3610 To 3668
Casing: OD 7-5/8" WT. 26.40 Set At 3984' Tubing: OD 1" WT. 1.8 T. Perf. 3595'
Produced Through: Casing _____ Tubing X Gas Gravity: Measured 0.710 Estimated _____
Date of Flow Test: From 1-3-63 To 1-10-63 * Date S.I.P. Measured 12-11-62
Meter Run Size 4.000 Orifice Size 1.250 Type Chart L-10 Type Taps Flange

OBSERVED DATA

Flowing casing pressure (Dwt) 698 psig + 12 = 710 psia (a)
Flowing tubing pressure (Dwt) 541 psig + 12 = 553 psia (b)
Flowing meter pressure (Dwt) 540 psig + 12 = 552 psia (c)
Flowing meter pressure (meter reading when Dwt. measurement taken:
Normal chart reading _____ psig + 12 = _____ psia (d)
Square root chart reading (7.34)² x spring constant 10 = 539 psia (d)
Meter error (c) - (d) or (d) - (c) = 13 psi (e)
Friction loss, Flowing column to meter: _____ 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 (7.25)² x sp. const. 10 = 526 psia (g)
Corrected seven day avge. meter press. (p_f) (g) + (e) = 539 psia (h)
= 540 psia (i)
P_t = (h) + (i) _____ psia (j)
Wellhead casing shut-in pressure (Dwt) 909 psig + 12 = 921 psia (j)
Wellhead tubing shut-in pressure (Dwt) 908 psig + 12 = 920 psia (k)
P_c = (j) or (k) whichever well flowed through _____ psia (l)
Flowing Temp. (Meter Run) _____ °F + 460 = _____ °Abs (m)
P_d = ½ P_c = ½ (l) _____ psia (n)

FLOW RATE CALCULATION

$$Q = \frac{497}{(\text{integrated})} \times \left(\frac{\frac{23.495}{\sqrt{(c)}}}{\frac{23.216}{\sqrt{(d)}}} = \frac{23.495}{23.216} = 1.01 \right) = 502 \text{ MCF/day}$$

DELIVERABILITY CALCULATION

$$Q = 502 \left[\frac{P_c^2 - P_d^2}{P_c^2 - P_w^2} \right]^n = \frac{634,800}{446,976} = 1.332 = 669 \text{ MCF/day}$$

SUMMARY

P_c = 920 psia
Q = 502 Mcf/day
P_w = 632 psia
P_d = 460 psia
Q = 669 Mcf/day

Company Consolidated Oil & Gas, Inc.
By W. J. Williams
Title Chief Engineer
Witnessed by _____
Company _____

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- * 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
2552	0.169	640.09	108.175	291,600	399.775	632