

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 Talacito Formation Pictured Cliffs County Hio Arriba
Purchasing Pipeline El Paso Natural Gas Company Date Test Filed Feb. 28, 1964

Operator Consolidated Oil & Gas Lease Hearilla # Well No. 3-8
Unit B Sec. 8 Twp. 23N Rge. 8W Pay Zone: From 3536 To 3590
Casing: OD _____ WT. _____ Set At _____ Tubing: OD 1" WT. 1.808 T. Perf. 3417
Produced Through: Casing _____ Tubing XX Gas Gravity: Measured .645 Estimated _____
Date of Flow Test: From 11-15-63 To 11-27-63 Date S.I.P. Measured 8-23-63
Meter Run Size 4.026 Orifice Size 1.600 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) _____ psig + 12 = _____ psia (c)
Flowing meter pressure (meter reading when Dwt. measurement taken:
Normal chart reading _____ psig + 12 = _____ psia (d)
Square root chart reading (_____) ² x spring constant _____ = _____ 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 (7.35) ² x sp. const. 20 = 540 psia (g)
Corrected seven day avge. meter press. (p_f) (g) + (e) _____ = _____ psia (h)
P_t = (h) + (f) _____ = 540 psia (i)
Wellhead casing shut-in pressure (Dwt) 940 psig + 12 = 952 psia (j)
Wellhead tubing shut-in pressure (Dwt) 940 psig + 12 = 952 psia (k)
P_c = (j) or (k) whichever well flowed through _____ = 952 psia (l)
Flowing Temp. (Meter Run) _____ °F + 460 _____ = _____ °Abs (m)
P_d = 1/2 P_c = 1/2 (l) _____ = 476 psia (n)

FLOW RATE CALCULATION

$$Q = \text{(integrated)} \times \left(\frac{\sqrt{(c)}}{\sqrt{(d)}} = \frac{\text{_____}}{\text{_____}} = \text{_____} \right)^* = \text{_____ MCF/da}$$

DELIVERABILITY CALCULATION

$$D = Q \text{ } \underline{693} \left[\frac{(P_c^2 - P_d^2)}{(P_c^2 - P_w^2)} = \frac{675.728}{434.259} \right]^n \text{ } \underline{1.4637} = \underline{2014} \text{ MCF/da.}$$

(1.5656)

SUMMARY

P_c = 952 psia
Q = 693 Mcf/day
P_w = 952 687 psia
P_d = 476 psia
D = 2014 1014 Mcf/day

Company Consolidated Oil & Gas Inc.
By Ralph Abbott
Title _____
Witnessed by Ralph Abbott
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>2204</u>	<u>.248</u>	<u>1219.895</u>	<u>160.545</u>	<u>291.600</u>	<u>472.145</u>	<u>687</u>

OK
Corrected Copy
Original Test Received 1-6-64
JH

THE UNITED STATES OF AMERICA
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

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