

Initial Deliverability
Test

Form C-122-A
Revised April 20, 1955

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 El Paso Natural Gas Company Date Test Filed March 10, 1964
Operator Consolidated Oil & Gas, Inc. Lease Williams Well No. 1-24
Unit H Sec. 24 Twp. 31N Rge. 13W Pay Zone: From 6708 To 6824
Casing: OD 5-1/2" WT. 17 lb. Set At 6814 Tubing: OD 1-1/2" WT. 2.75 T. Perf. 6610
Produced Through: Casing _____ Tubing X Gas Gravity: Measured 0.676 Estimated _____
Date of Flow Test: From 2/16/64 To 2/24/64 * Date S.I.P. Measured 10/3/63
Meter Run Size 4.000 Orifice Size 1.000 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 (7.15) ² x sp. const. 10 = 511 psia (g)
Corrected seven day avge. meter press. (p_f) (g) + (e) _____ = 511 psia (h)
P_t = (h) + (f) _____ = 511 psia (i)
Wellhead casing shut-in pressure (Dwt) Packer psig + 12 = _____ psia (j)
Wellhead tubing shut-in pressure (Dwt) 1670 psig + 12 = 1682 psia (k)
P_c = (j) or (k) whichever well flowed through _____ = 1682 psia (l)
Flowing Temp. (Meter Run) 60 °F + 460 _____ = 520 °Abs (m)
P_d = 1/2 P_c = 1/2 (l) _____ = 841 psia (n)

Q = _____ X $\left(\frac{\text{FLOW RATE CALCULATION}}{\sqrt{(c)}} = \frac{\sqrt{(d)}}{\sqrt{(d)}} \right) = \text{_____ MCF/da}$
(integrated)

DELIVERABILITY CALCULATION

D = Q 1124 $\left[\frac{(P_c^2 - P_d^2)}{(P_c^2 - P_w^2)} = \frac{2,121,843}{2,473,190} \right]^n \cdot .8913 = \text{_____} = \text{1002 MCF/da.}$

SUMMARY

P_c = 1682 psia
Q = 1124 Mcf/day
P_w = 597 psia
P_d = 841 psia
D = 1002 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
4468	0.277	342.287	94.813	261.121	355.934	597