

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 Unnamed Formation Dakota County San Juan
Purchasing Pipeline Southern Union Gas Company Date Test Filed Jan. 8, 1958
Operator Colorado Western Exp., Inc. 86. Union Government Well No. 1-19
Unit X Sec. 10 Twp. 31N Rge. 12W Pay Zone: From 6747 To 6802
Casing: OD 5 1/2" WT. 15.5# Set At 6810 Tubing: OD 2" EUE WT. 4.7 T. Perf. 5724
Produced Through: Casing XXXX Tubing _____ Gas Gravity: Measured 0.655 Estimated _____
Date of Flow Test: From 12/15/57 To 12/23/57 Date S.I.P. Measured 9/24/57
Meter Run Size 4" Orifice Size 2" Type Chart Std. 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 530 psig + 12 = 542 psia (g)
Square root chart average reading (_____) ² x sp. const. _____ = _____ psia (g)
Corrected seven day avge. meter press. (P_f) (g) + (e) _____ = 542 psia (h)
P_f = (h) + (f) _____ = 542 psia (i)
Wellhead casing shut-in pressure (Dwt) 2100 psig + 12 = 2202 psia (j)
Wellhead tubing shut-in pressure (Dwt) Dual Completion psig + 12 = _____ psia (k)
P_c = (j) or (k) whichever well flowed through _____ = 2202 psia (l)
Flowing Temp. (Meter Run) 78 °F + 460 _____ = 538 °Abs (m)
P_d = 1/2 P_c = 1/2 (l) _____ = 1101 psia (n)

FLOW RATE CALCULATION

Q = 1951 X $\left(\frac{\sqrt{(c)}}{\sqrt{(d)}} = \frac{\quad}{\quad} = \frac{1}{\quad} \right) = \underline{1951}$ MCF/day
(Integrated)

DELIVERABILITY CALCULATION

D = Q 1951 $\left[\frac{P_c^2 - P_d^2}{P_c^2 - P_w^2} \right]^{0.75} = \frac{3,636,603}{4,555,040}^{0.75} = \underline{1648}$ MCF/day.

SUMMARY

P_c = 2202 psia
Q = 1951 Mcf/day
P_w = 542 psia
P_d = 1101 psia
D = 1648 Mcf/day

Company Colorado Western Exploration, Inc.
By Fred Hilton
Title Area Superintendent
Witnessed by Fred Hilton
Company Colorado Western Exploration, Inc.

- * 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 R ²	(1-e ^{-S})	P _t ² (Column i)	P _t ² + R ²	P _w
Friction Negligible							



NEW YORK, N. Y., MAY 19, 1917

(TO BE USED BY THE NEW YORK, N. Y., MAY 19, 1917)

The following is a list of the names of the persons who have been appointed to the various positions in the New York, N. Y., MAY 19, 1917.

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