

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 Blanco Formation Mesa Verde County San Juan
Purchasing Pipeline Southern Union Gas Company Date Test Filed Jan. 24, 1958
Operator Colo. Western Expl. Inc. Lease So. Union-Government Well No. 1-19
Unit M Sec. 19 Twp. 31N Rge. 12W Pay Zone: From 4613 To 4819
Casing: OD 7" WT. 20-23# Set At 5000' Tubing: OD 2 7/8" WT. 6.5# T. Perf. 4573'
Produced Through: Casing 5 1/2" WT. 15.3# Tubing XXXX Gas Gravity: Measured 0.665 Estimated 5724
Date of Flow Test: From January 1 To January 8 Date S.I.P. Measured September 14, 1957
Meter Run Size 4" Orifice Size 1" 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 557 psig + 12 = 569 psia (g)
Square root chart average reading (_____) ² x sp. const. _____ = _____ psia (g)
Corrected seven day avge. meter press. (p_f) (g) + (e) _____ = 569 psia (h)
P_t = (h) + (f) _____ = 569 psia (i)
Wellhead casing shut-in pressure (Dwt) Dual Completion psig + 12 = _____ psia (j)
Wellhead tubing shut-in pressure (Dwt) 1086 psig + 12 = 1098 psia (k)
P_c = (j) or (k) whichever well flowed through _____ = 1098 psia (l)
Flowing Temp. (Meter Run) 72 °F + 460 _____ = 532 °Abs (m)
P_d = 1/2 P_c = 1/2 (l) _____ = 549 psia (n)

FLOW RATE CALCULATION

Q = 336 X $\left(\frac{V(c)}{V(d)} \right) = \frac{1}{1} = \frac{336}{1} = \underline{336}$ MCF/da
(Integrated)

DELIVERABILITY CALCULATION

D = Q 336 $\left[\frac{P_c^2 - P_d^2}{P_c^2 - P_w^2} \right]^{0.75} = \frac{1.0187}{1} = \underline{342}$ MCF/da.

SUMMARY

P_c = 1098 psia
Q = 336 Mcf/day
P_w = 569 psia
P_d = 549 psia
D = 342 Mcf/day

Company Colorado Western Exploration, Inc
By [Signature]
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 1)	P _t ² + R ²	P _w

Friction Negligible



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