

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 Flange Formation Blanco Verde County San Juan
Purchasing Pipeline Southern Union Gas Company Date Test Filed January 27, 1958
Operator Colo. Western Expl., Inc. Lease Government Center Well No. 1-04
Unit W Sec. 24 Twp. 31N Rge. 13E Pay Zone: From 4404 To 4815
Casing: OD 2" WT 30# Set At 1094 Tubing: OD 2 3/8" WT 4.7 T. Perf. 4402
Produced Through: Casing _____ Tubing meter Gas Gravity: Measured 0.565 Estimated _____
Date of Flow Test: From Jan. 8, 1958 to Jan. 16 * Date S.I.P. Measured 11/24/57
Meter Run Size 1" Orifice Size 3/4" Type Chart 314 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 () ² x sp. const. _____ = _____ psia (g)
Corrected seven day avg. meter press. (p_f) (g) + (e) _____ = _____ psia (h)
P_t = (h) + (f) _____ = _____ psia (i)
Wellhead casing shut-in pressure (Dwt) _____ psig + 12 = _____ psia (j)
Wellhead tubing shut-in pressure (Dwt) _____ psig + 12 = _____ psia (k)
P_c = (j) or (k) whichever well flowed through _____ = _____ psia (l)
Flowing Temp. (Meter Run) 48 °F + 460 _____ = _____ °Abs (m)
P_d = 1/2 P_c = 1/2 (l) _____ = _____ psia (n)

Q = 122 (Integrated) X $\left(\frac{\text{FLOW RATE CALCULATION}}{\frac{\sqrt{(c)}}{\sqrt{(d)}}} = \frac{1}{1} \right) = \underline{122} \text{ MCF/day}$

DELIVERABILITY CALCULATION

D = Q 122 $\left[\frac{(P_c^2 - P_d^2)}{(P_c^2 - P_w^2)} \right]^{0.75} \frac{1.0298}{1.0298} = \underline{126} \text{ MCF/day}$

SUMMARY

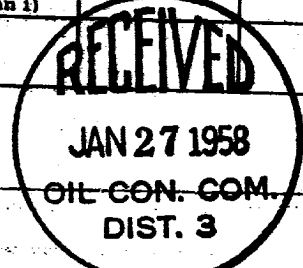
P_c = 984 psia
Q = 122 Mcf/day
P_w = 984 psia
P_d = 984 psia
D = 122 Mcf/day

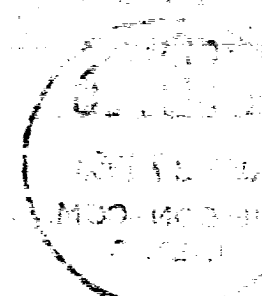
Company Colorado Western Exploration, Inc.
By [Signature]
Title Area Superintendent
Witnessed by Fred Hilton
Company Colorado Western Exploration, Inc.

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





RECEIVED

400
401
402
403
404