

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 Blanco Formation Mesa Verde County San Juan
Purchasing Pipeline Southern Union Gas Company Date Test Filed 12/10/57
Operator Colo. Western Exploration, Inc. Lease Gov't Starr Well No. 1- 13
Unit N Sec. 13 Twp. 31 N Rge. 13 W Pay Zone: From 4447 To 4714
Casing: OD 7" WT 20-23# Set At 4829' Tubing: OD 2 1/2" WT. 6.5# T. Perf. _____
Produced Through: Casing _____ Tubing XXXX Gas Gravity: Measured 0.666 Estimated _____
Date of Flow Test: From 11/8/57 To 11/15/57 Date S.I.P. Measured 11/13/57
Meter Run Size 4" Orifice Size 1" Type Chart Std. Type Taps Flange

OBSERVED DATA

Flowing casing pressure (Dwt) 518 psig + 12 = 530 psia (a)
Flowing tubing pressure (Dwt) 513 psig + 12 = 525 psia (b)
Flowing meter pressure (Dwt) 500 psig + 12 = 512 psia (c)
Flowing meter pressure (meter reading when Dwt. measurement taken):
Normal chart reading 500 psig + 12 = 512 psia (d)
Square root chart reading () ² x spring constant = _____ psia (d)
Meter error (c) - (d) or (d) - (c) ± = 0 psi (e)
Friction loss, Flowing column to meter:
(b) - (c) Flow through tubing; (a) - (c) Flow through casing = 13 psi (f)
Seven day average static meter pressure (from meter chart):
Normal chart average reading 510 psig + 12 = 522 psia (g)
Square root chart average reading () ² x sp. const. = _____ psia (g)
Corrected seven day avge. meter press. (P_f) (g) + (e) = 522 psia (h)
P_t = (h) + (f) = 535 psia (i)
Wellhead casing shut-in pressure (Dwt) 844 psig + 12 = 856 psia (j)
Wellhead tubing shut-in pressure (Dwt) 845 psig + 12 = 857 psia (k)
P_c = (j) or (k) whichever well flowed through = 857 psia (l)
Flowing Temp. (Meter Run) 85 °F + 460 = 545 °Abs (m)
P_d = 1/2 P_c = 1/2 (l) = 429 psia (n)

FLOW RATE CALCULATION

Q = 197 X $\left(\frac{V(c)}{V(d)} \right)^{1/2} = \underline{197}$ MCF/da
(Integrated) $\frac{22.6}{22.6}$

DELIVERABILITY CALCULATION

D = Q 197 $\left[\frac{P_c^2 - P_d^2}{P_c^2 - P_w^2} \right]^{0.75} \frac{1.168}{1.168} = \underline{230}$ MCF/da.

SUMMARY

P_c = 857 psia
Q = 197 Mcf/day
P_w = 535 psia
P_d = 429 psia
D = 230 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 _t ² + R ²	P _w
			R ²	(Column i)		



