

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 South Elmore Formation Pictured Cliffs County Santa Fe
Purchasing Pipeline Southern Union Gas Company Date Test Filed 1/13/60

Operator Archer Oil & Gas Company Lease Arizono-Flourville Well No. 1
Unit F Sec. 35 Twp. 23 Rge. 4 Pay Zone: From 3635 To 3714
Casing: OD 4.5 WT. 9.5 Set At 3759 Tubing: OD 2 WT. 4.7 T. Perf. 3634
Produced Through: Casing _____ Tubing XX Gas Gravity: Measured 0.691 Estimated _____
Date of Flow Test: From 12/8 To 12/16 * Date S.I.P. Measured 2/26/59
Meter Run Size 6 Orifice Size 0.730 Type Chart B Type Taps F

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 240 psig + 12 = 322 psia (g)
Square root chart average reading (_____) ² x sp. const. _____ = _____ psia (g)
Corrected seven day avge. meter press. (p_f) (g) + (e) _____ = 322 psia (h)
P_t = (h) + (f) _____ = 322 psia (i)
Wellhead casing shut-in pressure (Dwt) 280 psig + 12 = 340 psia (j)
Wellhead tubing shut-in pressure (Dwt) 280 psig + 12 = 340 psia (k)
P_c = (j) or (k) whichever well flowed through _____ = 340 psia (l)
Flowing Temp. (Meter Run) 70 °F + 460 _____ = 530 ° Abs (m)
P_d = ½ P_c = ½ (l) _____ = 170 psia (n)

Q = 201 X $\left(\frac{\text{FLOW RATE CALCULATION}}{\sqrt{(c)} = \text{_____} = \text{_____}} \right)^* = \text{_____} \text{ MCF/da}$
(integrated) $\sqrt{(d)} = \text{_____}$

DELIVERABILITY CALCULATION

D = Q 201 $\left[\frac{P_c^2 - P_d^2}{P_c^2 - P_w^2} = \frac{662,700}{578,896} \right]^n \text{_____} \text{_____} = \text{_____} \text{ MCF/da.}$
1.1220

SUMMARY

P_c = 340 psia
Q = 201 Mcf/day
P_w = 322 psia
P_d = 170 psia
D = 206 Mcf/day

Company Archer Oil & Gas Company
By ORIGINAL SIGNED BY L. M. STEVENS
Title 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



