

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 ASERC Formation PICTURED CLIFFS County SAN JUAN
Purchasing Pipeline SOUTHERN UTAH GAS COMPANY Date Test Filed February 15, 1960
Operator Astec Oil & Gas Company Lease None Well No. 13
Unit 0 Sec. 3 Twp. 29 Rge. 10 Pay Zone: From 2399 To 2399
Casing: OD 4 1/2 WT. 9.5 Set At 2399 Tubing: OD 1 WT. 1.7 T. Perf. 2399
Produced Through: Casing X Tubing 1/15/60 Gas Gravity: Measured 0.662 Estimated 10/20/59
Date of Flow Test: From 1/7 To 1/15/60 * Date S.I.P. Measured 10/20/59
Meter Run Size 1 Orifice Size 0.625 Type Chart 8 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 280 psig + 12 = 292 psia (g)
Square root chart average reading (_____) ² x sp. const. _____ = 292 psia (g)
Corrected seven day avge. meter press. (p_f) (g) + (e) _____ = _____ psia (h)
P_t = (h) + (f) _____ = 292 psia (i)
Wellhead casing shut-in pressure (Dwt) 360 psig + 12 = 372 psia (j)
Wellhead tubing shut-in pressure (Dwt) 360 psig + 12 = 372 psia (k)
P_c = (j) or (k) whichever well flowed through 372 psia (l)
Flowing Temp. (Meter Run) _____ °F + 460 _____ = 292 °Abs (m)
P_d = 1/2 P_c = 1/2 (l) _____ = _____ psia (n)

FLOW RATE CALCULATION

Q = 182 X $\left(\frac{\sqrt{(c)} = 1.000}{\sqrt{(d)}} \right) = \underline{\hspace{2cm}}$ MCF/da
(integrated)

DELIVERABILITY CALCULATION

D = Q 182 $\left[\frac{(P_c^2 - P_d^2) = 292^2 - 182^2}{(P_c^2 - P_w^2) = 372^2 - 182^2} \right]^n \times 1.0015 = \underline{\hspace{2cm}}$ MCF/da.

SUMMARY

P_c = 372 psia
Q = 182 Mcf/day
P_w = 182 psia
P_d = 182 psia
D = 182 Mcf/day

Company Astec Oil & Gas Company
By ORIGINAL SIGNED BY L. M. STEVENS
Title L. M. STEVENS, Dist. 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 1)	P _t ² + R ²	P _w
Friction Loss Is Negligible						



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