

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 BALLIARD Formation PICTURED CLIFFS County SAN JUAN
Purchasing Pipeline UIL PASO NATURAL GAS COMPANY Date Test Filed 9-7-56
Operator J. GLENN TURNER Lease HUERFANITO UNIT Well No. 42-27
Unit E Sec. 27 Twp 27N Rge. 9W Pay Zone: From 2285 To 2349
Casing: OD 5-1/2" WT. 14# Set At 2285 Tubing: OD 1" WT. 1.7# T. Perf. _____
Produced Through: Casing _____ Tubing _____ Gas Gravity: Measured 0.645 Estimated _____
Date of Flow Test: From 7-23-56 To 7-31-56 Date S.I.P. Measured 4-4-56
Meter Run Size 4" Orifice Size _____ Type Chart Sq. Rt. 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 (7.30)² x sp. const. 5 = 266 psia (g)
Corrected seven day avge. meter press. (p_f) (g) + (e) = 266 psia (h)
P_t = (h) + (f) = 266 psia (i)
Wellhead casing shut-in pressure (Dwt) 606 psig + 12 = 618 psia (j)
Wellhead tubing shut-in pressure (Dwt) 606 psig + 12 = 618 psia (k)
P_c = (j) or (k) whichever well flowed through = 618 psia (l)
Flowing Temp. (Meter Run) 68 °F + 460 = 528 °Abs (m)
P_d = 1/2 P_c = 1/2 (l) = 309 psia (n)

FLOW RATE CALCULATION

Q = _____ X $\left(\frac{\sqrt{(c)}}{\sqrt{(d)}} \right)^* =$ _____ MCF/day
(Integrated)

DELIVERABILITY CALCULATION

D = Q 91 $\left[\frac{P_c^2 - P_d^2}{P_c^2 - P_w^2} \right]^n =$ 85 MCF/day
 $\left(\frac{288,000}{312,000} \right)^{1.1167}$

SUMMARY

P_c = 618 psia
Q = 91 Mcf/day
P_w = 266 psia
P_d = 309 psia
D = 85 Mcf/day

Company J. GLENN TURNER
By Thigil T. Cook
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
			Friction negligible			



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