

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 BLANCO Formation PICTURED CLIFFS County SAN JUAN
Purchasing Pipeline EL PASO NATURAL GAS COMPANY Date Test Filed 6-6-56
Operator J. GLEN TURNER Lease CHRISTINE HUGHES Well No. 9-4
Unit J Sec. 4 Twp. 27N Rge. 9W Pay Zone: From 2454 To 2522
Casing: OD 5-1/2" WT. 15.5# Set At 2459 Tubing: OD 1-1/4" WT. T. Perf. 2489
Produced Through: Casing X Tubing Gas Gravity: Measured 0.650 Estimated
Date of Flow Test: From 4-16-56 To 4-24-56 Date S.I.P. Measured November 30, 1956
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 (8.00)² x sp. const. 5 = 320 psia (g)
Corrected seven day avge. meter press. (p_f) (g) + (e) = 320 psia (h)
P_t = (h) + (f) = 320 psia (i)
Wellhead casing shut-in pressure (Dwt) 673 psig + 12 = 685 psia (j)
Wellhead tubing shut-in pressure (Dwt) 673 psig + 12 = 685 psia (k)
P_c = (j) or (k) whichever well flowed through = 685 psia (l)
Flowing Temp. (Meter Run) 56 °F + 460 = 516 °Abs (m)
P_d = 1/2 P_c = 1/2 (l) = 343 psia (n)

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

DELIVERABILITY CALCULATION

D = Q 382 $\left[\frac{(P_c^2 - P_d^2) = 351,600}{(P_c^2 - P_w^2) = 366,800} \right]^n \cdot 0.9647 = 369$ MCF/da.

SUMMARY

P_c = 685 psia
Q = 382 Mcf/day
P_w = 320 psia
P_d = 343 psia
D = 369 Mcf/day

Company J. GLEN TURNER
By Michael D. Strake
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	$\frac{(F_c Q)^2 (1-e^{-S})}{R^2}$	P _t ² (Column i)	P _t ² + R ²	P _w
			Friction negligible			



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