

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 FULCHER-KUTZ Formation PICTURED CLIFFS County SAN JUAN
Purchasing Pipeline EL PASO NATURAL GAS COMPANY Date Test Filed 6-6-56
Operator J. GLENN TURNER Lease HUERFANITO UNIT Well No. 39-27
Unit K Sec. 27 Twp 27N Rge. 9W Pay Zone: From 2306 To 2377
Casing: OD 5-1/2" WT. 15.5# Set At 2302 Tubing: OD 1" WT. 1.7# T. Perf. 2348
Produced Through: Casing X Tubing _____ Gas Gravity: Measured 0.645 Estimated _____
Date of Flow Test: From 5-1-56 To 5-8-56 * Date S.I.P. Measured March 25, 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 (7.70)² x sp. const. 5 = 296 psia (g)
Corrected seven day avge. meter press. (p_f) (g) + (e) = 296 psia (h)
P_t = (h) + (f) = 296 psia (i)
Wellhead casing shut-in pressure (Dwt) 649 psig + 12 = 661 psia (j)
Wellhead tubing shut-in pressure (Dwt) 648 psig + 12 = 660 psia (k)
P_c = (j) or (k) whichever well flowed through = 661 psia (l)
Flowing Temp. (Meter Run) 77 °F + 460 = 537 °Abs (m)
P_d = 1/2 P_c = 1/2 (l) = 331 psia (n)

FLOW RATE CALCULATION

$$Q = \frac{\left(\frac{V(c)}{V(d)} \right)^{1/2}}{\left(\frac{P_c^2 - P_d^2}{P_c^2 - P_w^2} \right)^{1/2}} \times \left(\frac{P_c^2 - P_d^2}{P_c^2 - P_w^2} \right)^{1/2} = \text{_____ MCF/day}$$

(Integrated)

DELIVERABILITY CALCULATION

$$D = Q \times \left[\frac{P_c^2 - P_d^2}{P_c^2 - P_w^2} \right]^{1/2} = \frac{327,300}{349,300} \times 7 = 7 \text{ MCF/day}$$

SUMMARY

P_c = 661 psia
Q = 7 Mcf/day
P_w = 296 psia
P_d = 331 psia
D = 7 Mcf/day

Company J. GLENN TURNER
By W. G. L. L. L.
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})	P _t ²	P _t ² + R ²	P _w
			R ²	(Column i)		
			Friction negligible			



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