

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 Co Date Test Filed April 10, 1956
Operator J. Glenn Turner Lease J. F. Hughes Well No. 4-10
Unit E Sec. 10 Twp. 27N Rge. 9W Pay Zone: From 2304 To 2373
Casing: OD 5 1/2 WT. 14 Set At 2309 Tubing: OD 1" WT. 1.7 # T. Perf. 2332
Produced Through: Casing X Tubing _____ Gas Gravity: Measured 0.650 Estimated _____
Date of Flow Test: From 2-29-56 To 3-8-56 * Date S.I.P. Measured Sept 29, 1955
Meter Run Size 4" Orifice Size 1.250 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 (7475)² x spring constant 5 = _____ psia (d)
Meter error (c) - (d) or (d) - (c) _____ ± _____ psi (e)
Friction loss, Flowing column to meter: _____ psi (f)
(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 (7.95)² x sp. const. 5 = _____ psia (g)
Corrected seven day avge. meter press. (p_f) (g) + (e) = _____ psia (h)
P_t = (h) + (f) = _____ psia (i)
Wellhead casing shut-in pressure (Dwt) 653 psig + 12 = 665 psia (j)
Wellhead tubing shut-in pressure (Dwt) 653 psig + 12 = 665 psia (k)
P_c = (j) or (k) whichever well flowed through = 665 psia (l)
Flowing Temp. (Meter Run) 53 °F + 460 = 513 °Abs (m)
P_d = 1/2 P_c = 1/2 (l) = 333 psia (n)

FLOW RATE CALCULATION

$$Q = \frac{\text{(Integrated)}}{\left(\frac{V(c)}{V(d)} \right)} = \text{_____ MCF/day}$$

DELIVERABILITY CALCULATION

$$D = Q \frac{\left[\frac{P_c^2 - P_d^2}{P_c^2 - P_w^2} \right]^n}{\left[\frac{P_c^2 - P_d^2}{P_c^2 - P_w^2} \right]^n} = \frac{337 \left[\frac{665^2 - 333^2}{665^2 - 352.000} \right]^{0.949}}{\left[\frac{665^2 - 333^2}{665^2 - 352.000} \right]^n} = 510 \text{ MCF/day}$$

SUMMARY

n = 0.85

P_c = 665 psia
Q = 537 Mcf/day
P_w = 300 psia
P_d = 333 psia
D = 510 Mcf/day

Company J. Glenn Turner
By [Signature]
Title Engineer
Witnessed by _____
Company _____

- * This is date of completion test.
- * Meter error correction factor

REMARKS OR FRICTION CALCULATIONS

GL	(1-e ⁻⁸)	(F _c Q) ²	(F _c Q) ² (1-e ⁻⁸)	P _t ²	P _t ² + R ²	P _w
			R ²	(Column 1)		
			Friction Negligible			



