

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 BLANCO MESA VERDE Formation MESA VERDE County SJ
Purchasing Pipeline EL PASO NATURAL GAS CO. Date Test Filed MAY 22, 1958
Operator BLACKWOOD-NICHOLS Lease N E BLANCO UNIT 6-29 Well No. 6-29
Unit N Sec. 29 Twp. 30 N Rge. 7 W Pay Zone: From 4855 To 5273
Casing: OD 7" WT. Set At 5006 Tubing: OD 2" WT. T. Perf. 5463
Produced Through: Casing Tubing X Gas Gravity: Measured .680 Estimated
Date of Flow Test: From 4-18 To 4-26 * Date S.I.P. Measured 3-27-58
Meter Run Size 4" Orifice Size 2.000 Type Chart SR 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 (7.25) ² x sp. const. 1000 = 526 psia (g)
Corrected seven day ave. meter press. (p_f) (g) + (e) = 526 psia (h)
P_t = (h) + (f) = 526 psia (i)
Wellhead casing shut-in pressure (Dwt) 815 psig + 12 = 827 psia (j)
Wellhead tubing shut-in pressure (Dwt) psig + 12 = psia (k)
P_c = (j) or (k) whichever well flowed through = 827 psia (l)
Flowing Temp. (Meter Run) 76 °F + 460 = 460 °Abs (m)
P_d = ½ P_c = ½ (l) = 413 psia (n)

FLOW RATE CALCULATION

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

DELIVERABILITY CALCULATION

$$D = Q \left[\frac{P_c^2 - P_d^2}{P_c^2 - P_w^2} \right]^n = 1205 \left[\frac{513,360}{377,013} \right]^{1.2603} = 1519 \text{ MCF/da.}$$

SUMMARY

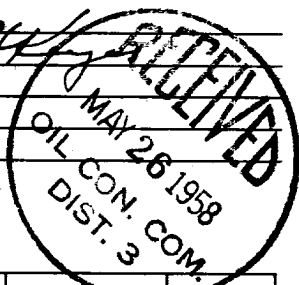
P_c = 827 psia
Q = 1205 Mcf/day
P_w = 554 psia
P_d = 413 psia
D = 1519 Mcf/day

Company Gas Electric, Inc.
By B H Keyes
Title AGENT
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
3715	.237	128 355	30 420	276,676	307,096	554



OK