

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 Formation Mesaverde County RA
Purchasing Pipeline El Paso Natural Gas Date Test Filed January 30, 1958
Operator Blackwood-Nichols Lease NK Blanco Unit Well No. 35-19
Unit J Sec. 19 Twp. 30N Rge. 7W Pay Zone: From 5110 To 5594
Casing: OD 5 1/2 WT. Set At 5687 Tubing: OD 2-3/8 WT. 4.7 T. Perf. 5499
Produced Through: Casing Tubing X Gas Gravity: Measured .675 Estimated
Date of Flow Test: From 12/30/57 To 1/7/58 * Date S.I.P. Measured 8/28/57
Meter Run Size 4" Orifice Size 1.750 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 (7.15)² x sp. const. 10 = 511 psia (g)
Corrected seven day avge. meter press. (p_f) (g) + (e) = psia (h)
P_t = (h) + (f) = 511 psia (i)
Wellhead casing shut-in pressure (Dwt) 1049 psig + 12 = 1061 psia (j)
Wellhead tubing shut-in pressure (Dwt) 1049 psig + 12 = 1061 psia (k)
P_c = (j) or (k) whichever well flowed through = 1061 psia (l)
Flowing Temp. (Meter Run) 60 °F + 460 = 520 ° Abs (m)
P_d = 1/2 P_c = 1/2 (l) = 531 psia (n)

Q = 1489 X $\left(\frac{\text{FLOW RATE CALCULATION}}{\sqrt{(c)}} = \frac{\text{ }}{\sqrt{(d)}} = \text{ }} \right)^* = \text{ }$ MCF/da
(integrated)

DELIVERABILITY CALCULATION

D = Q 1489 $\left[\frac{P_c^2 - P_d^2}{P_c^2 - P_w^2} \right]^n = \frac{843,760}{818,148}^{1.0232} = 1524$ MCF/da.

SUMMARY

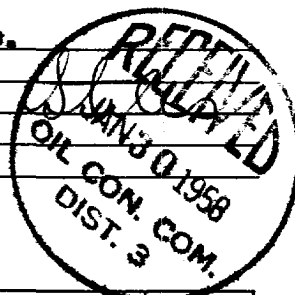
P_c = 1061 psia
Q = 1489 Mcf/day
P_w = 555 psia
P_d = 531 psia
D = 1524 Mcf/day

Company GeoElectric, Inc.
By
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
3712	.237	196,000	46,452	261,121	307,573	555



de