

Initial Deliverability
Test

Form C-122-A
Revised April 20, 1955

CORRECTED

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 Mesa Verde County San Juan
Purchasing Pipeline El Paso Natural Gas Co. Date Test Filed May 1, 1962
Operator Blackwood-Nichols Lease NE Blanco Unit Well No. 61-19
Unit G Sec. 19 Twp. 31 N Rge. 6 W Pay Zone: From 5204 To 5756
Casing: OD 5 1/2 WT. Set At 5814 Tubing: OD 2 WT. T. Perf. 5719
Produced Through: Casing Tubing X Gas Gravity: Measured .610 Estimated
Date of Flow Test: From Nov. 11 To Nov. 18 * Date S.I.P. Measured 11/24/61
Meter Run Size 4" Orifice Size 1.250 Type Chart S R 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 (5.70)² x sp. const. 1500 = 488 psia (g)
Corrected seven day avge. meter press. (p_f) (g) + (e) = 488 psia (h)
P_t = (h) + (f) = 488 psia (i)
Wellhead casing shut-in pressure (Dwt) 1174 psig + 12 = 1186 psia (j)
Wellhead tubing shut-in pressure (Dwt) psig + 12 = 1186 psia (k)
P_c = (j) or (k) whichever well flowed through = 1186 psia (l)
Flowing Temp. (Meter Run) 62 °F + 460 = 522 °Abs (m)
P_d = 1/2 P_c = 1/2 (l) = 593 psia (n)

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

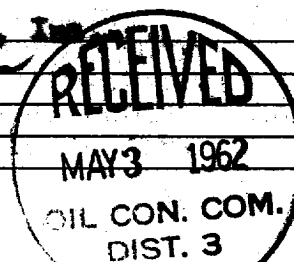
DELIVERABILITY CALCULATION

D = Q 493 $\left[\frac{(P_c^2 - P_d^2)}{(P_c^2 - P_w^2)} = \frac{1,054,947}{1,163,639} \right]^n \frac{.9291}{.9066} = \text{458}$ MCF/da.

SUMMARY

P_c = 1186 psia
Q = 493 Mcf/day
P_w = 493 psia
P_d = 593 psia
D = 458 Mcf/day

Company GeoElectric, Inc.
By B. H. Kasper
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
3489	.224	21.485	4.813	238,144	242,957	493