

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 SOUTH BLANCO Formation PICTURED CLIFFS County SJ
Purchasing Pipeline EL PASO NATURAL GAS CO. Date Test Filed JUNE 14, 1957

Operator R & G DRILLING CO. Lease MARRON Well No. 31
Unit L Sec. 22 Twp. 27 N Rge. 8 W Pay Zone: From 2092 To 2160
Casing: OD 5 1/2 WT. 14 Set At 2224 Tubing: OD _____ WT. _____ T. Perf. _____
Produced Through: Casing X Tubing _____ Gas Gravity: Measured .650 Estimated _____
Date of Flow Test: From 5-24-57 To 6-1-57 * Date S.I.P. Measured 3-20-57
Meter Run Size 4" Orifice Size 2.250 Type Chart SR Type Taps FLOR

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. 5.00 = 263 psia (g)
Corrected seven day avge. meter press. (p_f) (g) + (e) _____ = _____ psia (h)
P_t = (h) + (f) _____ = 263 psia (i)
Wellhead casing shut-in pressure (Dwt) _____ psig + 12 = 864 psia (j)
Wellhead tubing shut-in pressure (Dwt) _____ psig + 12 = 864 psia (k)
P_c = (j) or (k) whichever well flowed through _____ = 864 psia (l)
Flowing Temp. (Meter Run) _____ 70 °F + 460 _____ = 530 °Abs (m)
P_d = 1/2 P_c = 1/2 (l) _____ = 432 psia (n)

FLOW RATE CALCULATION

$$Q = \text{(Integrated)} \times \left(\frac{\sqrt{(c)}}{\sqrt{(d)}} \right) = \text{_____ MCF/da}$$

DELIVERABILITY CALCULATION

$$D = Q \times \left[\frac{(P_c^2 - P_d^2)}{(P_c^2 - P_w^2)} \right]^n = \text{_____ MCF/da}$$

$\frac{(P_c^2 - P_d^2)}{(P_c^2 - P_w^2)} = \frac{559,872}{677,327}$ $n = .8505$ $D = 2468$

SUMMARY

P_c = 864 psia
Q = 2902 Mcf/day
P_w = 263 psia
P_d = 432 psia
D = 2468 Mcf/day
Company GEOELECTRIC, 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

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