

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 SAN JUAN
Purchasing Pipeline EL PASO NATURAL GAS CO. Date Test Filed JUNE 17, 1960
Operator R & G DRILLING CO. Lease GRAHAM Well No. 44
Unit B Sec. 3 Twp. 27 Rge. 8 Pay Zone: From 4455 To 4565
Casing: OD 5 1/2 WT. _____ Set At _____ Tubing: OD 2 WT. _____ T. Perf. 4970
Produced Through: Casing _____ Tubing X Gas Gravity: Measured .720 Estimated _____
Date of Flow Test: From 11/15/59 To 11/22/59 * Date S.I.P. Measured 10/20/59
Meter Run Size 4" Orifice Size 1000 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 (7.25) ² x sp. const. 1000 = 526 psia (g)
Corrected seven day avge. meter press. (p_f) (g) + (e) _____ = 526 psia (h)
P_t = (h) + (f) _____ = 526 psia (i)
Wellhead casing shut-in pressure (Dwt) 973 psig + 12 = 985 psia (j)
Wellhead tubing shut-in pressure (Dwt) 973 psig + 12 = 985 psia (k)
P_c = (j) or (k) whichever well flowed through _____ = 985 psia (l)
Flowing Temp. (Meter Run) 60 °F + 460 _____ = 520 °Abs (m)
P_d = 1/2 P_c = 1/2 (l) _____ = 492 psia (n)

FLOW RATE CALCULATION

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

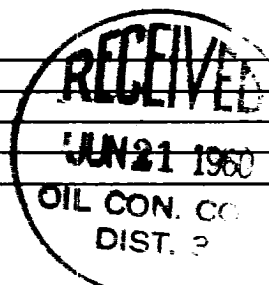
DELIVERABILITY CALCULATION

D = Q 461 $\left[\frac{(P_c^2 - P_d^2)}{(P_c^2 - P_w^2)} \right]^n = \text{_____ MCF/da.}$
728,161 1.0416 480
689,548

SUMMARY

P_c = 985 psia
Q = 461 Mcf/day
P_w = 530 480 psia
P_d = 492 psia
D = 480 Mcf/day

Company Geol. Retina, Inc.
By J. R. Higgins
Title ANALYST
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 1)	P _t ² + R ²	P _w
3290	.213	18.786	4.001	276,676	280,677	530

TEST PREVIOUSLY FILED AS ANNUAL DELIVERABILITY TEST BUT NO DELIVERABILITY AS WELL LOGGED
OFF DUE TO HIGH LINE PRESSURE.

DK