

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 UNDESIGNATED W. K. 5 Formation DAKOTA County SAN JUAN
Purchasing Pipeline EL PASO NATURAL GAS COMPANY Date Test Filed APRIL 18, 1960

~~Benson-Martin-Greer Drilling~~
Operator Corp. Lease GINTHER Well No. 2
Unit K Sec. 13 Twp. 27N Rge. 13W Pay Zone: From 5846 To 5998
Casing: OD 5-1/2 WT. 17 Set At 5998 Tubing: OD 2" EUE WT. 4.7 T. Perf. 6000
Produced Through: Casing _____ Tubing X Gas Gravity: Measured 0.644 Estimated _____
Date of Flow Test: From 3-1-60 To 3-8-60 * Date S.I.P. Measured 12-10-59
Meter Run Size 4" Orifice Size 1.750 Type Chart Sg/Rt. 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 (7.05) ² x sp. const. 10 _____ = 497 psia (g)
Corrected seven day avg. meter press. (p_f) (g) + (e) _____ = 497 psia (h)
P_t = (h) + (f) _____ = 497 psia (i)
Wellhead casing shut-in pressure (Dwt) 2119 psig + 12 = 2131 psia (j)
Wellhead tubing shut-in pressure (Dwt) 2108 psig + 12 = 2120 psia (k)
P_c = (j) or (k) whichever well flowed through _____ = 2120 psia (l)
Flowing Temp. (Meter Run) 77 °F + 460 _____ = 537 °Abs (m)
P_d = ½ P_c = ½ (l) _____ = 1060 psia (n)

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

DELIVERABILITY CALCULATION

D = Q 1,280 $\left[\frac{(P_c^2 - P_d^2) = 3,370,800}{(P_c^2 - P_w^2) = 4,211,900} \right]^n \frac{0.846}{1} = \text{1083 MCF/da.}$

SUMMARY

P_c = 2120 psia
Q = 1280 Mcf/day
P_w = 531 psia
P_d = 1060 psia
D = 1083 Mcf/day

Company Benson-Martin-Greer Drilling Corp.
By [Signature]
Title Engineer
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
3864	0.245	144,721	35,457	247,009	282,466	531

