

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 BALLARD Formation PICTURED CLIFFS County SAN JUAN
Purchasing Pipeline EL PASO NATURAL GAS COMPANY Date Test Filed 3-19-56
Operator BERSON-MERTIN Lease McMANUS Well No. 5
Unit 0 Sec. 4 Twp. 25N Rge. 8W Pay Zone: From 2168 To 2213
Casing: OD 5-1/2" WT. 14* Set At 2173 Tubing: OD 1" WT. 1.7* T. Perf. 2186
Produced Through: Casing X Tubing _____ Gas Gravity: Measured 0.600 Estimated _____
Date of Flow Test: From 2-21-56 To 2-29-56 * Date S.I.P. Measured 12-27-55
Meter Run Size 4.029 Orifice Size 1.250 Type Chart Sq. 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 254 psig + 12 = 266 psia (g)
Square root chart average reading (_____)² x sp. const. _____ = _____ psia (g)
Corrected seven day ave. meter press. (p_f) (g) + (e) _____ = 266 psia (h)
P_t = (h) + (f) _____ = 266 psia (i)
Wellhead casing shut-in pressure (Dwt) 635 psig + 12 = 647 psia (j)
Wellhead tubing shut-in pressure (Dwt) 635 psig + 12 = 647 psia (k)
P_c = (j) or (k) whichever well flowed through _____ = 647 psia (l)
Flowing Temp. (Meter Run) 61 °F + 460 _____ = 521 °Abs (m)
P_d = 1/2 P_c = 1/2 (l) _____ = 324 psia (n)

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

DELIVERABILITY CALCULATION

D = Q 970 $\left[\frac{(P_c^2 - P_d^2) = \underline{313,600}}{(P_c^2 - P_w^2) = \underline{347,800}} \right]^n \times \underline{0.916} = \underline{809} \text{ MCF/day.}$

SUMMARY

$n = 0.85$
P_c = 647 psia
Q = 970 Mcf/day
P_w = 266 psia
P_d = 324 psia
D = 809 Mcf/day

Company BERSON-MERTIN
By George P. Stork
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
			Friction negligible			

From EPNG Chart #74-217-01 Q = (7750) 24
(192)



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