

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 Blance Formation Pictured Cliffs County Rio Arriba
Purchasing Pipeline Southern Union Gas Company Date Test Filed 2-18-58
Operator Caulkins Oil Company Lease B reech E Well No. PC 83
Unit J Sec. 5 Twp. 26N Rge. 6W Pay Zone: From 2954 To ~~X3044~~ 3044
Casing: OD 5 1/2 WT. 14 Set At 2954 Tubing: OD 1" WT. 1.7 T. Perf. 2942
Produced Through: Casing Yes Tubing no Gas Gravity: Measured .665 Estimated _____
Date of Flow Test: From 1-23-58 To 1-31-58 * Date S.I.P. Measured 2-7-58
Meter Run Size 4 1/2" OD Orifice Size 1 1/2" Type Chart Normal Type Taps Flange

OBSERVED DATA

Flowing casing pressure (Dwt) 585 psig + 12 = 597 psia (a)
Flowing tubing pressure (Dwt) 585 psig + 12 = 597 psia (b)
Flowing meter pressure (Dwt) 585 psig + 12 = 597 psia (c)
Flowing meter pressure (meter reading when Dwt. measurement taken:
Normal chart reading 585 psig + 12 = 597 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: _____ psi (f)
(b) - (c) Flow through tubing: (a) - (c) Flow through casing
Seven day average static meter pressure (from meter chart):
Normal chart average reading 562 psig + 12 = 574 psia (g)
Square root chart average reading () ² x sp. const. = _____ psia (g)
Corrected seven day avge. meter press. (p_f) (g) + (e) = 574 psia (h)
P_t = (h) + (f) = 574 psia (i)
Wellhead casing shut-in pressure (Dwt) 715 psig + 12 = 727 psia (j)
Wellhead tubing shut-in pressure (Dwt) 715 psig + 12 = 727 psia (k)
P_c = (j) or (k) whichever well flowed through = 727 psia (l)
Flowing Temp. (Meter Run) 60 °F + 460 = 520 °Abs (m)
P_d = 1/2 P_c = - (l) = 363 psia (n)

FLOW RATE CALCULATION

$$Q = \frac{833}{(\text{integrated})} \times \left(\frac{\sqrt{(c)} = 597}{\sqrt{(d)} = 597} = 1.000 \right)^* = 833 \text{ MCF/da}$$

DELIVERABILITY CALCULATION

$$D = Q \frac{833}{\left[\frac{(P_c^2 - P_d^2)}{(P_c^2 - P_w^2)} = \frac{396,760}{199,053} \right]^n (1.99)^n} = \frac{1.7947}{1.7947} = 1495 \text{ MCF/da.}$$

SUMMARY

P_c = 727 psia
Q = 833 Mcf/day
P_w = 574 psia
P_d = 363 psia
D = 1495 Mcf/day

Company Caulkins Oil Company
By Frank L. Ryan
Title Field Superintendent
Witnessed by L. Layton
Company Southern Union Gas 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 R ²	(1-e ^{-S})	P _t ² (Column i)	P _t ² + R ²	P _w
		Friction Negligible					



