

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 Formation Mesaverde County San Juan
Purchasing Pipeline El Paso Natural Gas Date Test Filed _____
Operator Anderson-Prichard Lease Johnston Well No. 1-X
Unit L Sec. 12 Twp. 30 Rge. 9 Pay Zone: From 4957 To 4404
Casing: OD 7 WT. 20 Set At 4260 Tubing: OD 2 7/8 WT. 6.50 T. Perf. 5009
Produced Through: Casing _____ Tubing X Gas Gravity: Measured .875 Estimated _____
Date of Flow Test: From 12/8 To 12/16 * Date S.I.P. Measured 12/24/57
Meter Run Size 4 Orifice Size 1.50 Type Chart _____ Type Taps _____

OBSERVED DATA

Flowing casing pressure (Dwt) 500 psig + 12 = 512 psia (a)
Flowing tubing pressure (Dwt) 469 psig + 12 = 480 psia (b)
Flowing meter pressure (Dwt) 462 psig + 12 = 474 psia (c)
Flowing meter pressure (meter reading when Dwt. measurement taken:
Normal chart reading _____ psig + 12 = _____ psia (d)
Square root chart reading (6.9)² x spring constant 1000 = 476 psia (d)
Meter error (c) - (d) or (d) - (c) ± = 2 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 _____ psig + 12 = _____ psia (g)
Square root chart average reading (7.05)² x sp. const. = 497 psia (g)
Corrected seven day avge. meter press. (p_f) (g) + (e) = 495 psia (h)
P_t = (h) + (f) = 501 psia (i)
Wellhead casing shut-in pressure (Dwt) 728 psig + 12 = 740 psia (j)
Wellhead tubing shut-in pressure (Dwt) 610 psig + 12 = 622 psia (k)
P_c = (j) or (k) whichever well flowed through = 622 psia (l)
Flowing Temp. (Meter Run) 75 °F + 460 = 535 ° Abs (m)
P_d = 1/2 P_c = 1/2 (l) = 311 psia (n)

FLOW RATE CALCULATION

Q = 1468 X $\left(\frac{\sqrt{(c)}}{\sqrt{(d)}} = \frac{.9958}{.9979} \right) = \underline{1465} MCF/day
(Integrated)$

DELIVERABILITY CALCULATION

D = Q 1465 $\left[\frac{(P_c^2 - P_d^2)}{(P_c^2 - P_w^2)} \right]^n = \underline{2274} MCF/day
 $\frac{220163}{161467} = 1.363$
 $\frac{1.363}{1.7970} = 0.758$$

SUMMARY

P_c = 622 psia
Q = 1465 Mcf/day
P_w = 515 psia
P_d = 311 psia
D = 2274 Mcf/day

Company Anderson-Prichard Oil Co.
By _____
Title _____
Witnessed by Sam Little
Company Thurmond-McGlothlin

- * 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
3381	.218	66.13	14.416	251001	265417	515

