

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 La Belta Formation Mesa Verde County _____
Purchasing Pipeline Southern Union Gas Co. Date Test Filed _____
Operator Anderson-Prichard Oil Co. Sadie West Well No. 1
Unit L Sec. 21 Twp. 31N Rge. 12W Pay Zone: From 4969 To 4756
Casing: OD 7 WT. 20 Set At 5053 Tubing: OD 2 WT. 4.70 T. Perf. 4254
Produced Through: Casing _____ Tubing X Gas Gravity: Measured .686 Estimated _____
Date of Flow Test: From 11-30 To 12-8 * Date S.I.P. Measured 12-15-57
Meter Run Size _____ Orifice Size _____ Type Chart _____ Type Taps _____

OBSERVED DATA

Flowing casing pressure (Dwt) 570 psig + 12 = 582 psia (a)
Flowing tubing pressure (Dwt) 530 psig + 12 = 542 psia (b)
Flowing meter pressure (Dwt) 530 psig + 12 = 542 psia (c)
Flowing meter pressure (meter reading when Dwt. measurement taken:
Normal chart reading 520 psig + 12 = 532 psia (d)
Square root chart reading () ² x spring constant = 10 psi (e)
Meter error (c) - (d) or (d) - (c) ± _____
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 543 psig + 12 = 555 psia (g)
Square root chart average reading () ² x sp. const. = 565 psia (h)
Corrected seven day avge. meter press. (p_f) (g) + (e) = 565 psia (i)
P_t = (h) + (f) _____ psia (j)
Wellhead casing shut-in pressure (Dwt) 805 psig + 12 = 817 psia (k)
Wellhead tubing shut-in pressure (Dwt) 790 psig + 12 = 802 psia (l)
P_c = (j) or (k) whichever well flowed through _____ psia (m)
Flowing Temp. (Meter Run) 66 °F + 460 = 401 °Abs (n)
P_d = ½ P_c = ½ (l)

FLOW RATE CALCULATION

Q = 766 X $\left(\frac{\sqrt{(a)} = \underline{1.018} = \underline{1.0093}}{\sqrt{(d)}} \right)^* = \underline{773} MCF/da
(integrated)$

DELIVERABILITY CALCULATION

D = Q 773 $\left[\frac{(P_c^2 - P_d^2) = \underline{482403}}{(P_c^2 - P_w^2) = \underline{312726}} \right]^n \underline{1.3841} = \underline{1070} MCF/da.
(1.5425)$

SUMMARY

P_c = 802 psia
Q = 773 Mcf/day
P_w = 570 psia
P_d = 401 psia
D = 1070 Mcf/day

Company Anderson-Prichard Oil Co.
By _____
Title _____
Witnessed by Sum M. Stalham
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
<u>3299</u>	<u>0.213</u> 0.213	<u>52.82</u>	<u>11.251</u>	<u>319225</u>	<u>330476</u>	<u>570</u>



