

CORRECTED COPY

Form C-122-A
Revised April 20, 1955NEW 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 Rio Arriba
Purchasing Pipeline El Paso Natural Gas Co. Date Test Filed _____
Operator Blackwood Nichols Lease NEBU Well No. 10-16
Unit M Sec. 10 Twp. 30N Rge. 7W Pay Zone: From 5070 To 5585
Casing: OD 7 WT. _____ Set At 4957 Tubing: OD 2 WT. 4.70 T. Perf. 5403
Produced Through: Casing _____ Tubing _____ Gas Gravity: Measured .673 Estimated _____
Date of Flow Test: From 4/21 To 4/29 * Date S.I.P. Measured 5/8/60
Meter Run Size _____ Orifice Size 1.750 Type Chart _____ Type Taps _____

OBSERVED DATA

Flowing casing pressure (Dwt) 663 psig + 12 = 675 psia (a)
Flowing tubing pressure (Dwt) 562 psig + 12 = 574 psia (b)
Flowing meter pressure (Dwt) 527 psig + 12 = 539 psia (c)
Flowing meter pressure (meter reading when Dwt. measurement taken):
Normal chart reading _____ psig + 12 = _____ psia (d)
Square root chart reading (5.85)² x spring constant 1500 = 513 psia (d)
Meter error (c) - (d) or (d) - (c) _____ = - 26 psi (e)
Friction loss, Flowing column to meter:
(b) - (c) Flow through tubing; (a) - (c) Flow through casing _____ = 35 psi (f)
Seven day average static meter pressure (from meter chart):
Normal chart average reading _____ psig + 12 = _____ psia (g)
Square root chart average reading (5.85)² x sp. const. _____ = 513 psia (g)
Corrected seven day ave. meter press. (p_f) (g) + (e) _____ = 539 psia (h)
P_t = (h) + (f) _____ = 574 psia (i)
Wellhead casing shut-in pressure (Dwt) 855 psig + 12 = 867 psia (j)
Wellhead tubing shut-in pressure (Dwt) 822 psig + 12 = 834 psia (k)
P_c = (j) or (k) whichever well flowed through _____ = 834 psia (l)
Flowing Temp. (Meter Run) 69 °F + 460 _____ = 529 °Abs (m)
P_d = ½ P_c = ½ (l) _____ = 417 psia (n)

FLOW RATE CALCULATION

$$Q = \underline{1,397} \text{ (integrated)} \times \left(\frac{\sqrt{(c)}}{\sqrt{(d)}} = \underline{1.0506} = \underline{1.0250} \right)^* = \underline{1,432} \text{ MCF/da}$$

DELIVERABILITY CALCULATION

$$D = Q \underline{1,432} \left[\frac{(P_c^2 - P_d^2)}{(P_c^2 - P_w^2)} = \frac{\underline{521.667}}{\underline{324.026}} \right]^n \underline{1.4291} = \underline{2,046} \text{ MCF/da.}$$

1.6099

SUMMARY

P_c = 834 psia
Q = 1,432 Mcf/day
P_w = 610 psia
P_d = 417 psia
D = 2,046 Mcf/day

Company Blackwood Nichols
By _____
Title _____
Witnessed by Thurmond McGlothlin
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 R ²	P _t ² (Column i)	P _t ² + R ²	P _w
3636	.232	181.268	42.054	329.476	371.530	610

