

Initial Deliverability
Test

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 MESA UNIT Formation SM County SJ
Purchasing Pipeline E P & S Date Test Filed _____
Operator BLACKWOOD-NICHOLS Lease BLANCO UNIT Well No. 62-30
Unit L Sec. 30 Twp. 31 Rge. 6 Pay Zone: From 5235 To 5710
Casing: OD 5 1/2 WT. _____ Set At 5009 Tubing: OD 2 WT. _____ T. Perf. 5512
Produced Through: Casing _____ Tubing _____ Gas Gravity: Measured .936 Estimated _____
Date of Flow Test: From DEC 5 To DEC 12 Date S.I.P. Measured 7 7/8/61
Meter Run Size 2" Orifice Size 1.500 Type Chart S R Type Taps CLANCE

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 7.05 _____ psig + 12 = _____ psia (g)
Square root chart average reading (_____) ² x sp. const. _____ = _____ psia (g)
Corrected seven day avge. meter press. (p_f) (g) + (e) _____ = _____ psia (h)
P_t = (h) + (f) _____ = _____ psia (i)
Wellhead casing shut-in pressure (Dwt) 1153 _____ psig + 12 = _____ psia (j)
Wellhead tubing shut-in pressure (Dwt) 1157 _____ psig + 12 = _____ psia (k)
P_c = (j) or (k) whichever well flowed through 59 _____ = _____ psia (l)
Flowing Temp. (Meter Run) _____ ° F = _____ ° Abs (m)
P_d = 1/2 P_c = 1/2 (l) _____ = _____ psia (n)

FLOW RATE CALCULATION

Q = _____ X $\left(\frac{V(c)}{V(d)} \right) = \frac{\text{_____}}{\text{_____}} = \text{_____}$ MCF/day
(integrated)

DELIVERABILITY CALCULATION

D = Q 360 $\left[\frac{P_c^2 - P_d^2}{P_c^2 - P_w^2} \right] = \frac{1,018,501}{1,113,539} \times .9316 = .9177$ MCF/day

SUMMARY

P_c = 1165 psia Company Blackwood-Nichols Inc.
Q = 360 Mcf/day By _____
P_w = 59 psia Title Agent
P_d = 136 psia Witnessed by _____
D = _____ Mcf/day Company _____

- * This is date of completion test.
- * Meter error correction factor

REMARKS OR FRICTION CALCULATIONS

GL	(1-e ^{-S})	(F _g Q) ²	(F _g Q) ² (1-e ^{-S}) R ²	F _g ² (Column 4)	P _t ² + R ²	P _w
3363	.217	11.456	2.426	240.100	240.585	193