DAVID MONTGOMERY
LOT 17 ALLISON AC
IREDELL CO NC

8-20-96

DESIGN FLOW 3 BR @ 120 = 360 GPD.

L.T.A.R. / JACK MOORE FOR LPP = 0.15 GPD/SF

REQ'D AREA = 360/0.15 = 2400 SF

LPP LINES 2400/5' = 480 LF / 8 LINES 60 LF/LINE

LINE	REV ELEV	H	FLOW
A & B	100.0	3.6	0.55
C & D	100.6	3.0	0.50
E & F	101.1	2.5	0.45
G & H	101.6	2.0	0.41

FORCE MAIN 50 LF - 1 1/2" ϕ SCH 40

ELEV HEAD 9.5'

OPERATING HEAD 2.0'

FRICTION HEAD 4.0

15.5 TDH

DOSING VOL = V SUPPLY + 5 V LAT

V SUPPLY (1 1/2") = $\frac{10.6}{100} \times 50 = 5.3$ GAL = 5.3

V LAT (1 1/4") $\frac{9.6}{100} \times 480 = 46.08 \times 5 = 230.4$

235.7 GAL DOSE

DRAWDOWN: $\frac{236}{1000} \times 48 = 11.3$"

PUMP RUN TIME: $\frac{236 \text{ GAL}}{26.0 \text{ GPM}} = 9.07$ MIN.