JOB NUMBER: 96-08-06
PROJECT:DAVID MONTGOMERY - DATE: 08/23/96 - CALCULATED BY:JEC - CHECKED BY: BKB

8 LINES FOR A TOTAL 480 LF - MANIFOLD PLACEMENT: CENTER
ORIFICE DIAMETER=5/32"

LATERAL	LENGTH (FEET)	ELEV. (FEET)	REL. PRES. HEAD (FEET)	ORIFICE DIA. (FEET)	GPM/ ORIFICE	ORIFICE SPACING (INCHES) TO LEFT MANIFOLD (INCHES)	ORIFICE SPACING (INCHES) TO RIGHT MANIFOL (INCHES)	DIST. LAST HOLE TO END OF LATERAL TO LEFT (INCHES)	DIST. LAST HOLE TO END OF LATERAL TO RIGHT (INCHES)	ORIFICE SPACING (INCHES)	NO. OF HOLES	GPM/ LINE	GPM/ FOOT OF LINE	% OF FLOW REDUCTION
A,B	120	100.0	2.0	0.0130208	0.41	20.0	40.0	40.0	20.0	60.0	24	9.77	0.0814	0.00
C,D	120	99.6	2.4	0.0130208	0.45	48.0	24.0	24.0	48.0	72.0	20	8.92	0.0743	9.54
E,F	120	99.3	2.7	0.0130208	0.47	24.0	48.0	48.0	24.0	72.0	20	9.46	0.0788	3.28
G,H	120	99.0	3.0	0.0130208	0.50	56.0	24.0	24.0	56.0	80.0	18	8.97	0.0748	8.87
TOTALS:	480.0	LF									82.0	37.1	GPM	
											TOTAL	2.0	GPM	SIPHON BREAK
												39.1	GPM	

G H
E F 2.0
C D 2.5
A B 3.6

FORCE MAIN AND PUMP SIZING DATA:

PUMP TANK INVERT:	92.5	
HIGH POINT IN SUPPLY LINE:	100.0	
SYSTEM HEAD @ HIGH POINT:	2.0	
TOTAL STATIC HEAD:	9.5	FEET
DESIGN FLOW:	39.1	GPM
FORCE MAIN LENGTH:	50.0	FEET
FORCE MAIN SUPPLY SIZE:	1.5	INCH SCH 40 PVC
ACTUAL ID OF FORCE MAIN:	1.610	INCHES
FRICTION LOSSES:	8.5	FEET
FORCE MAIN VELOCITY:	6.16	FEET PER SECOND
MINIMUM PUMP REQUIREMEN	39.1 GPM AT	15.5 FEET TDH
DOSE VOLUME RANGE:	216.0 GAL. MIN.	432.0 GAL. MAX.
TRY USING A DOSE OF:	300.0 GALLONS	
RESULTING PUMP RUN TIME:	7.7 MINUTES	
DOSING DEPTH:	14.4 INCHES	

10/08/96 TUE 16:30 FAX 7046841778 BK BARRINGER 001

Jack Woods
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