

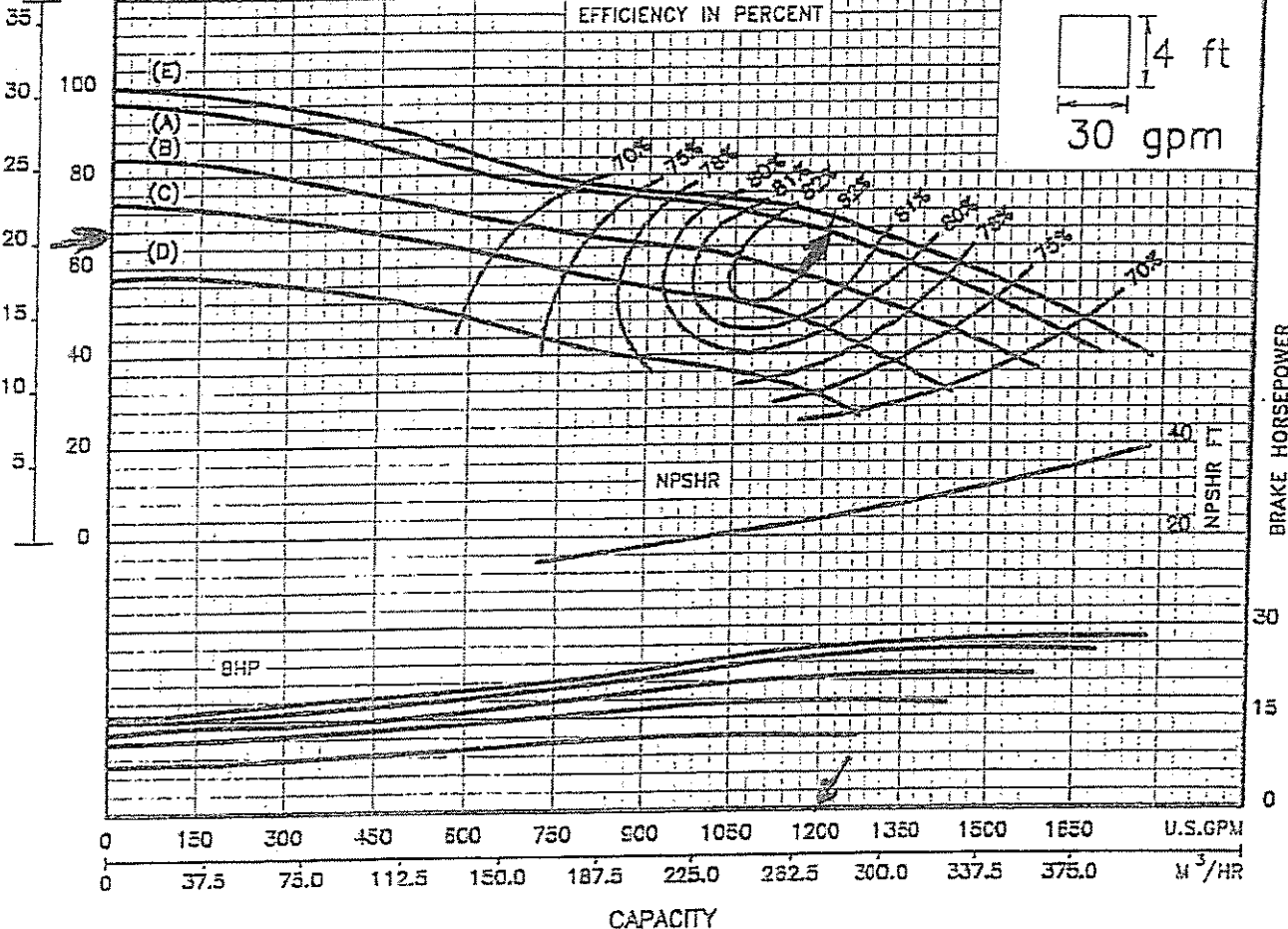
JOLINE.

TURBINE PUMP CURVE

JANUARY 1995

12MCZ -3 STAGE 68 FT PER STAGE

82% EFF, 75.39 BHP, DAL 13.8'
 TDH 5/1 134977, Fitted 10" x 1 1/2" x 10" 12MC 1760 RPM Gully Branch HSP #1
 M. FT.



IMPELLER DATA	
Impeller Number	2951
Material	BRONZE
Type	CLOSED
Thrust Factor	K=10.60
Eye Area	20.10 sq. in.
Weight	15.00 lb.
TRIM: (E) 9.563" X 21.5" (A) 9.375" X 21.5" (B) 9.000" X 21.5" (C) 8.625" X 21.5" (D) 8.000" X 21.5" Minimum submergence above eye of bottom impeller: 24 in.	

BOWL DATA	
Bowl Number	2952 C.I./ENAM.
Bowl Dia.	11.563" max 11.250" min
Max No. Stages	14
One Stage Weight	340 lb
Add'l Stage Weight	100 lb
Std. Shaft Dia.	1.628 in
Std. Interval	0.750 in
Discharge Size	6-8-10 in
Suction Size	8 - 10 in
Max Sphere Size	0.825 in
Max Operation P.S.I.	524 (special)

EFFICIENCY CORRECTION				
Number of Bowls	1	2	3	4
Change as follows	-3	-2	-1	0
Change in efficiency may affect both head and horsepower.				

Performance based on pumping clear, fresh water at a temperature not over 85° F., and free of gas, air or abrasives, and with bowls properly adjusted and submerged.

JOLINE

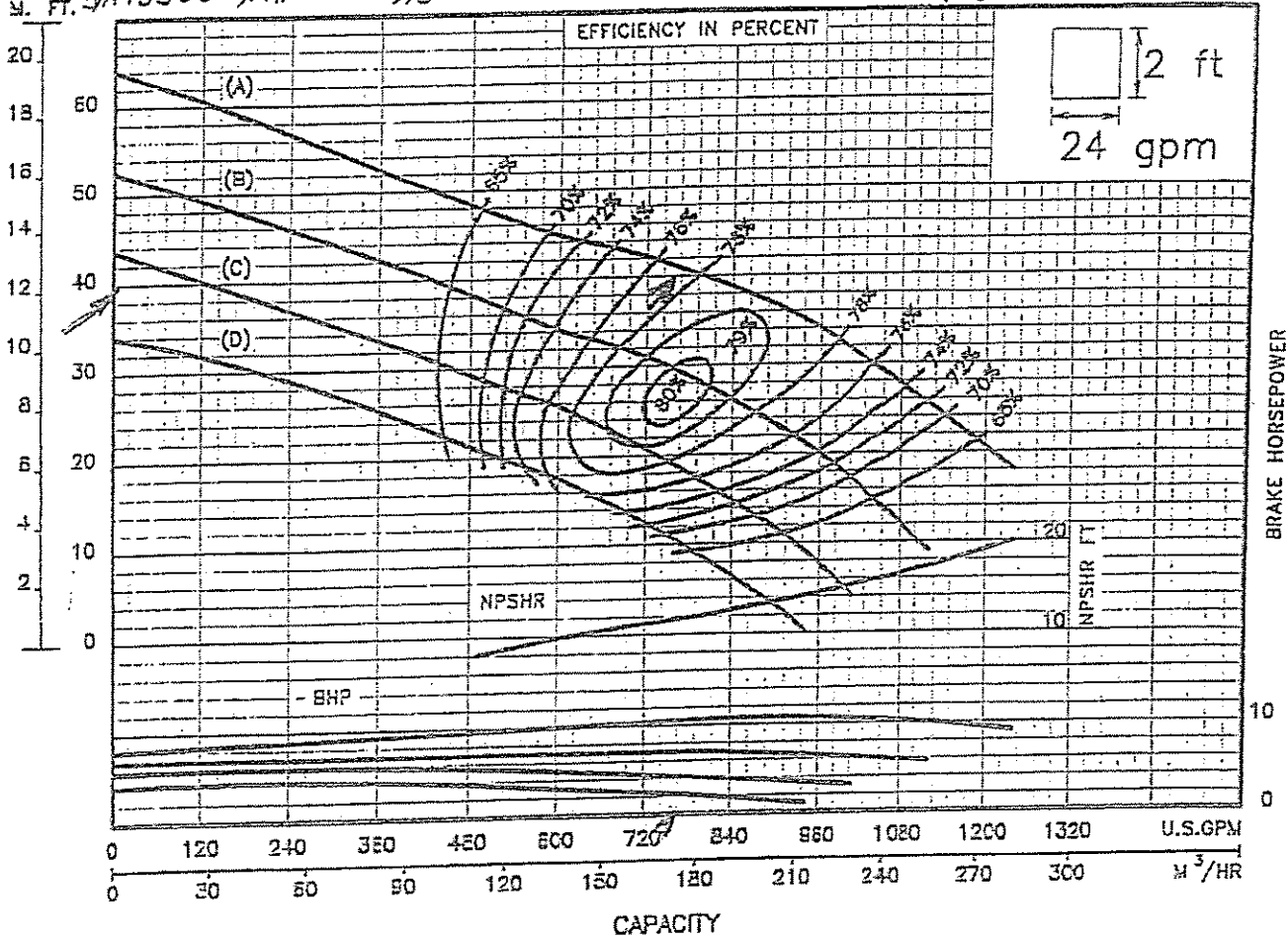
TURBINE PUMP CURVE

10WC - 5 Stage Bowl Assy 39.60 FT. PER STAGE SEPTEMBER 1997

77% EFF, 48.70 BHP, OAL 13' 6",
 TDH 10WCZ - 5 Stage A-M BOWL ASSY
 M. FT. 5/1135000, Fitted 8" X 1 3/16" x 8"

10WC 1760 RPM

Gulley Branch
 HSP #2



IMPELLER DATA	
Impeller Number	3577
Material	BRONZE
Type	CLOSED
Thrust Factor	K=10.30
Eye Area	19.40 sq. in.
Weight	11.50 lb.
TRIM: (A) 8.250" X 33.25" (B) 7.750" X 33.25" (C) 7.250" X 33.25" (D) 6.750" X 33.25" Minimum submergence above eye of bottom impeller: 28 in.	

BOWL DATA	
Bowl Number	3541 C.I./ENAMEL
Bowl Dia.	9.875" max 9.500" min
Max No. Stages	28
One Stage Weight	250 lb
Add'l Stage Weight	50 lb
Std. Shaft Dia.	1.538 in
Std. Lateral	0.875 in
Discharge Size	6 - 8 in
Suction Size	6 - 8 in
Max. Sphere Size	0.875 in
Max Operation P.S.I.	455 (special)

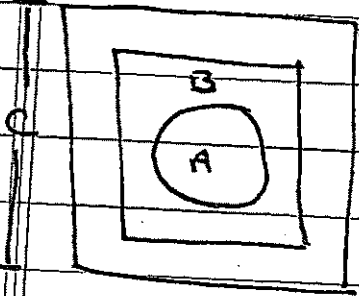
EFFICIENCY CORRECTION				
Number of Bowls	1	2	3	4
Change as follows	-4	-2	-1	0
Change in efficiency may affect both head and horsepower.				

Performance based on pumping clear, fresh water at a temperature not over 85° F., and free of gas, air or abrasives, and with bowls properly adjusted and submerged.

PLT # 18 Gully Branch

Depth of Basin - 16'

Big Service Pump

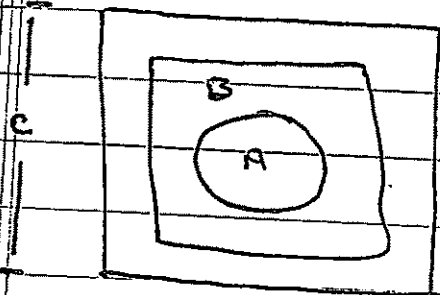


A - Inside DIA - 17"

B - Inside DIA - 21 1/2"

C - outside - 33"

Small Service Pump



A - Inside DIA - 12"

B - Inside DIA - 20"

C - outside - 34"