

Company: Bonneville Power Administration

Name:

Date: 11/26/2006

Pump:

Size: 20"5821
 Type: 5800-HSC
 Synch speed: 900 rpm
 Curve: 212008A
 Specific Speeds:
 Dimensions:
 Speed: 890 rpm
 Dia: 20 in
 Impeller: D20C1A
 Ns: 3309
 Nss: 10730
 Suction: 20 in
 Discharge: 20 in

Pump Limits:

Temperature: 160 °F
 Pressure: 75 psi g
 Sphere size: 1.5 in
 Power: --- hp
 Eye area: --- in²

Search Criteria:

Flow: --- US gpm
 Head: --- ft

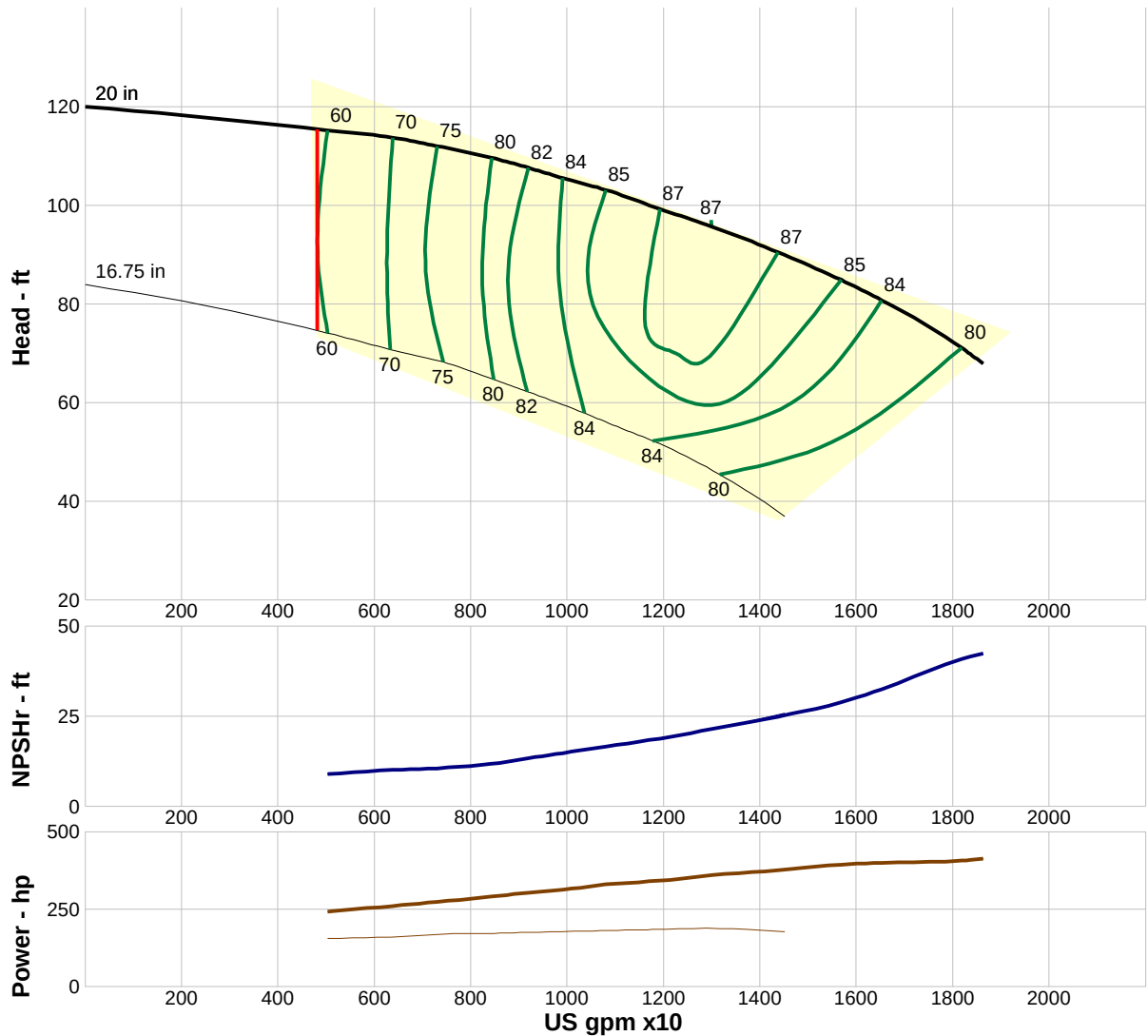
Fluid:

Water
 Density: 62.25 lb/ft³
 Viscosity: 1.105 cP
 NPSHa: --- ft
 Temperature: 60 °F
 Vapor pressure: 0.2563 psi a
 Atm pressure: 14.7 psi a

Motor:

Standard: NEMA
 Enclosure: TEFC
 Sizing criteria: Max Power on Design Curve
 --- hp
 Speed: ---
 Frame: ---

---- Data Point ----	
Flow:	12994 US gpm
Head:	95.7 ft
Eff:	87%
Power:	360 hp
NPSHr:	21.5 ft
---- Design Curve ----	
Shutoff head:	120 ft
Shutoff dP:	51.9 psi
Min flow:	4800 US gpm
BEP:	87% @ 12994 US gpm
NOL power:	414 hp @ 18626 US gpm
-- Max Curve --	
Max power:	414 hp @ 18626 US gpm

**Performance Evaluation:**

Flow US gpm	Speed rpm	Head ft	Efficiency %	Power hp	NPSHr ft
17881	890	72.8	81	407	39.5
14901	890	88.2	86	385	26.6
11921	890	99.2	87	343	18.9
8941	890	108	81	300	12.9
5960	890	114	67	256	9.8