

Company: Bonneville Power Administration

Name:

Date: 11/26/2006

Pump:

Size: 6"5823
 Type: 5800-HSC
 Synch speed: 1800 rpm
 Curve: 230604F
 Specific Speeds:
 Dimensions:
 Speed: 1780 rpm
 Dia: 14.75 in
 Impeller: D6A1F
 Ns: 1516
 Nss: 10720
 Suction: 8 in
 Discharge: 6 in

Pump Limits:

Temperature: 160 °F
 Pressure: 175 psi g
 Sphere size: 0.88 in
 Power: --- hp
 Eye area: --- in²

Search Criteria:

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

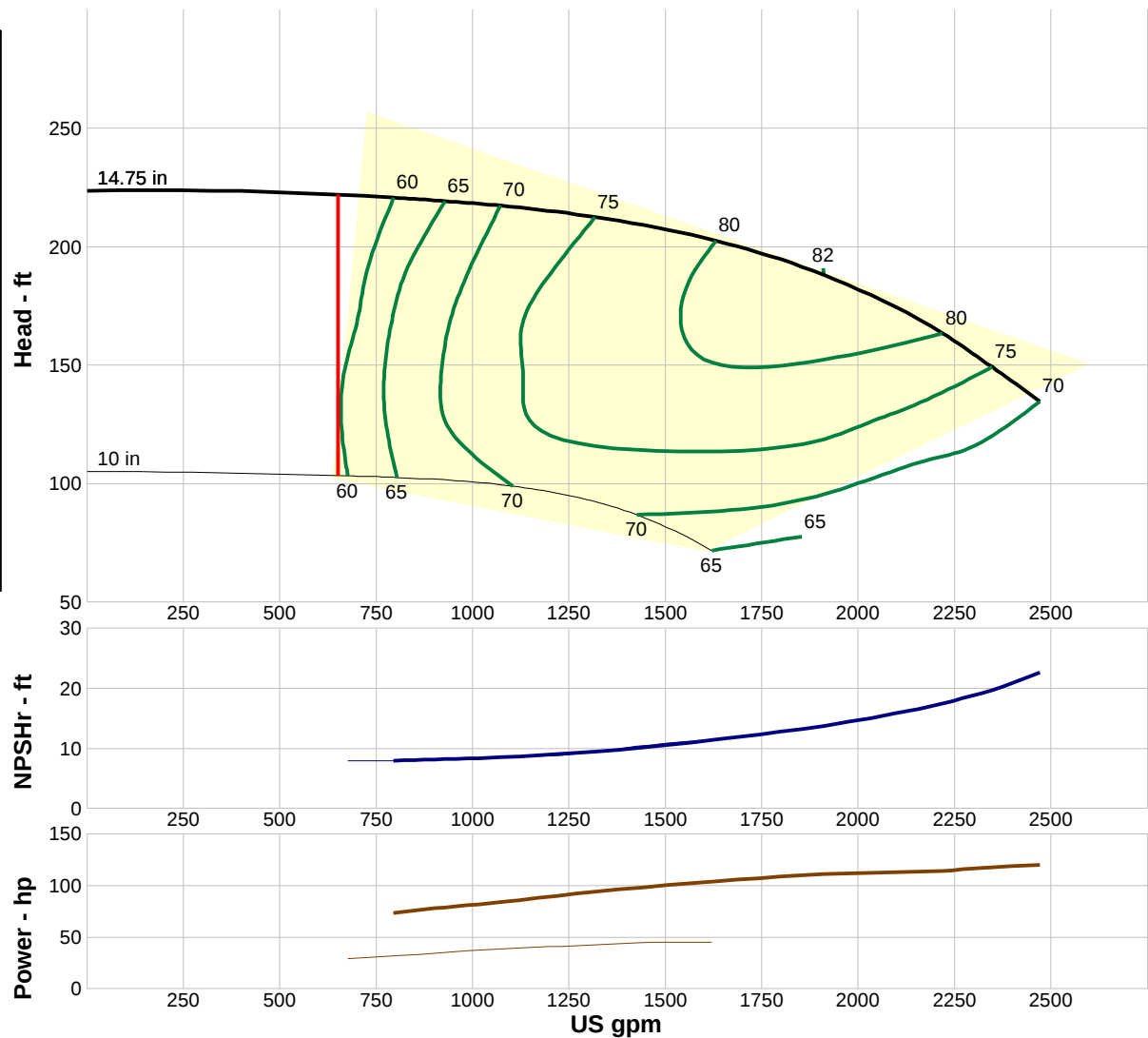
Fluid:

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
 Size: 125 hp
 Speed: 1800
 Frame: 444T

---- Data Point ----	
Flow:	1909 US gpm
Head:	188 ft
Eff:	82%
Power:	111 hp
NPSHr:	13.8 ft
---- Design Curve ----	
Shutoff head:	224 ft
Shutoff dP:	96.7 psi
Min flow:	650 US gpm
BEP:	82% @ 1909 US gpm
NOL power:	120 hp @ 2470 US gpm
-- Max Curve --	
Max power:	120 hp @ 2470 US gpm

**Performance Evaluation:**

Flow US gpm	Speed rpm	Head ft	Efficiency %	Power hp	NPSHr ft
2371	1780	146	74	118	20.3
1976	1780	183	81	112	14.6
1581	1780	204	79	103	11.2
1186	1780	215	72	88.7	8.99
790	1780	221	60	73.6	7.99