

Company: Bonneville Power Administration

Name:

Date: 11/26/2006

**Pump:**

Size: 5"5821
 Type: 5800-HSC
 Synch speed: 1200 rpm
 Curve: 210506B
 Specific Speeds:
 Dimensions:
 Speed: 1165 rpm
 Dia: 8.75 in
 Impeller: D5C1B
 Ns: 2307
 Nss: 6044
 Suction: 6 in
 Discharge: 5 in

Pump Limits:

Temperature: 160 °F
 Pressure: 175 psi g
 Sphere size: 0.75 in
 Power: --- hp
 Eye area: --- in²

Search Criteria:

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

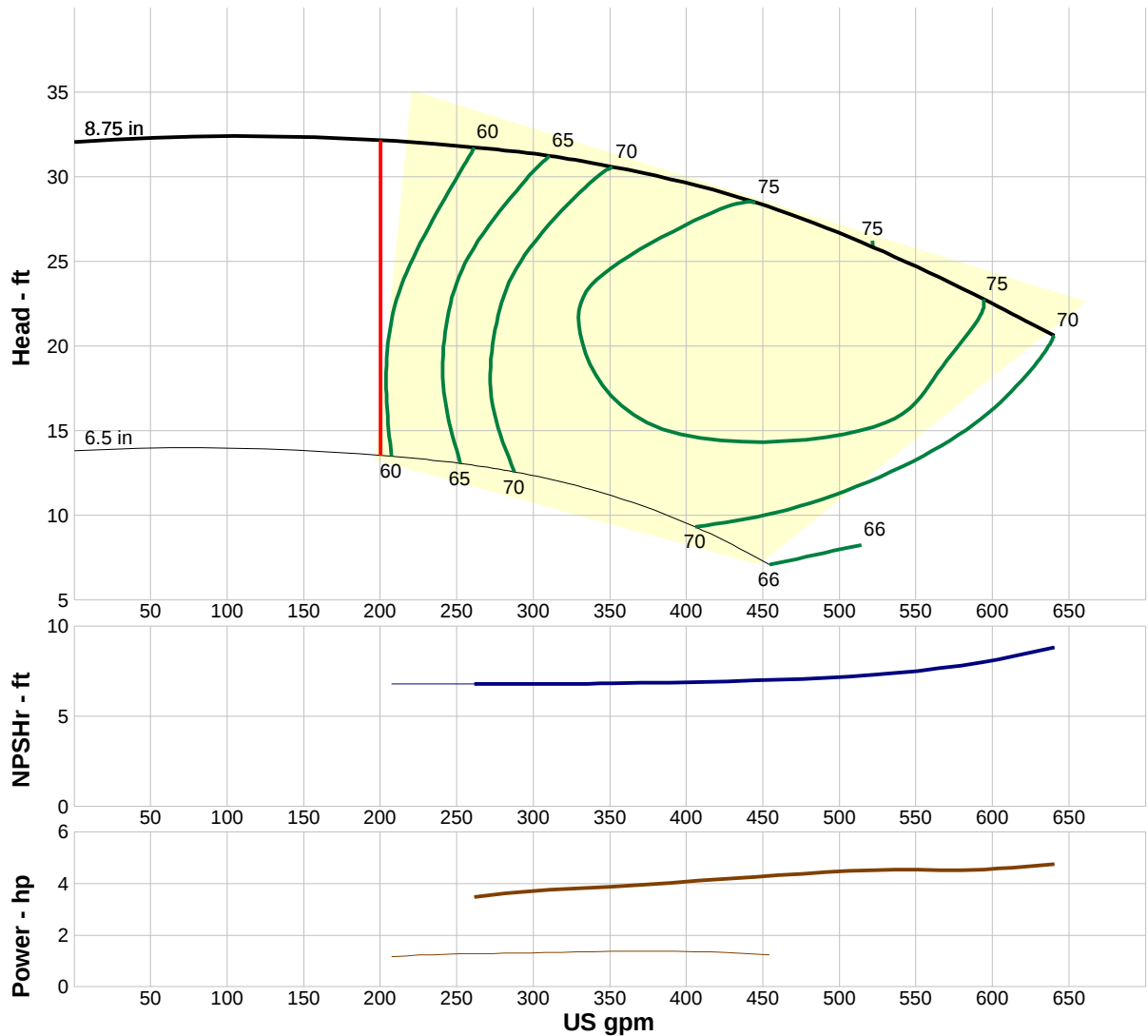
Fluid:

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: 5 hp
 Speed: 1200
 Frame: 215T

---- Data Point ----	
Flow:	522 US gpm
Head:	25.8 ft
Eff:	75%
Power:	4.53 hp
NPSHr:	7.31 ft
---- Design Curve ----	
Shutoff head:	32.1 ft
Shutoff dP:	13.9 psi
Min flow:	200 US gpm
BEP:	75% @ 522 US gpm
NOL power:	4.76 hp @ 640 US gpm
-- Max Curve --	
Max power:	4.76 hp @ 640 US gpm

**Performance Evaluation:**

Flow US gpm	Speed rpm	Head ft	Efficiency %	Power hp	NPSHr ft
614	1165	21.8	73	4.65	8.38
512	1165	26.2	75	4.5	7.26
410	1165	29.3	73	4.12	6.94
307	1165	31.3	65	3.75	6.8
205	1165	31.8	54	3.17	6.8