

Company: Bonneville Power Administration

Name:

Date: 11/26/2006

Pump:

Size: 5"2824A
 Type: 2800-HSC
 Synch speed: 1800 rpm
 Curve: 240504A
 Specific Speeds:
 Dimensions:
 Speed: 1785 rpm
 Dia: 17.75 in
 Impeller: J5L1A1
 Ns: 1005
 Nss: 10265
 Suction: 8 in
 Discharge: 5 in

Pump Limits:

Temperature: 160 °F
 Pressure: 300 psi g
 Sphere size: 0.63 in
 Power: --- hp
 Eye area: --- in²

Search Criteria:

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

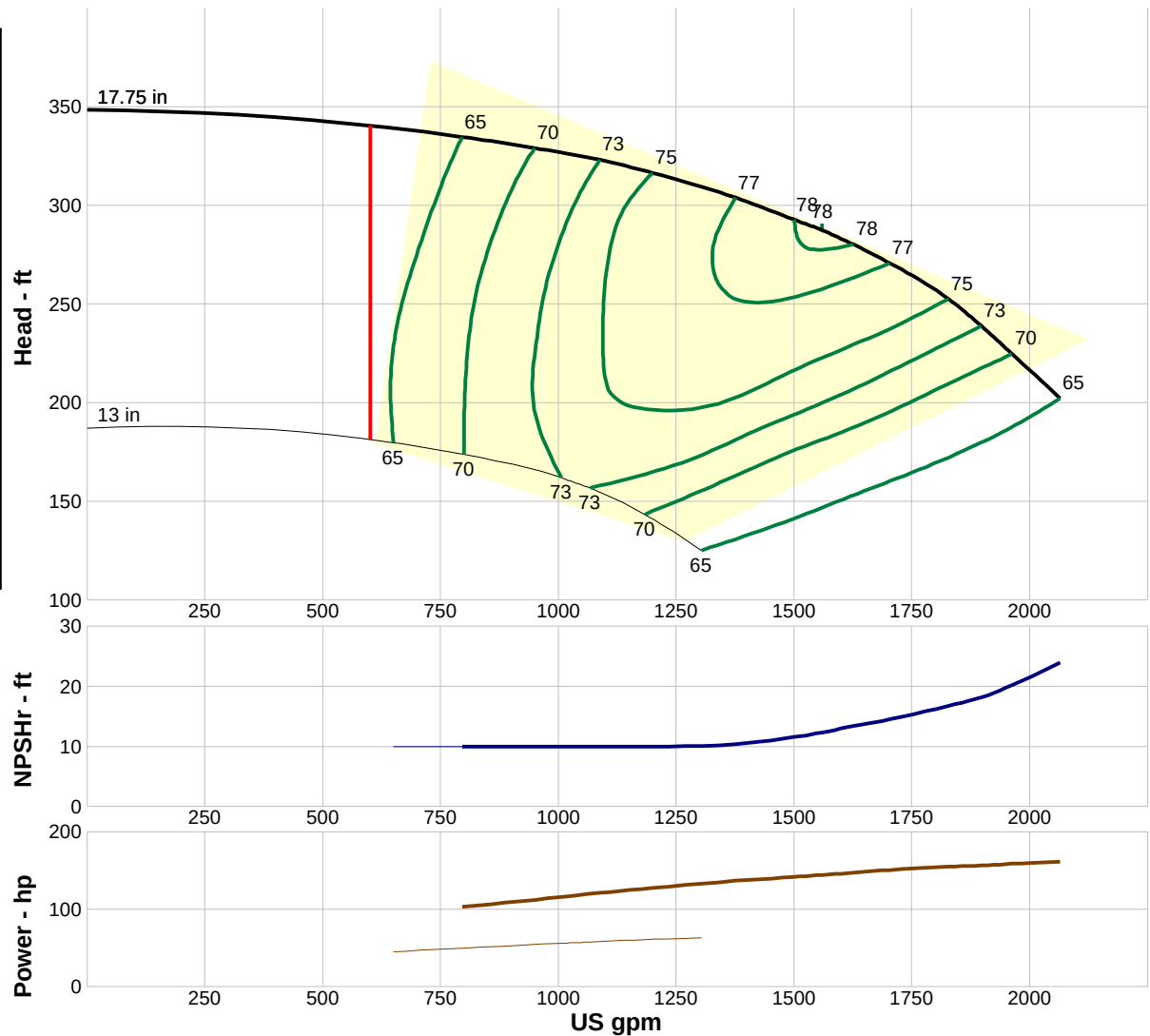
Fluid:

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: 200 hp
 Speed: 1800
 Frame: 447T

---- Data Point ----	
Flow:	1559 US gpm
Head:	287 ft
Eff:	78%
Power:	145 hp
NPSHr:	12.3 ft
---- Design Curve ----	
Shutoff head:	348 ft
Shutoff dP:	151 psi
Min flow:	600 US gpm
BEP:	78% @ 1559 US gpm
NOL power:	162 hp @ 2064 US gpm
-- Max Curve --	
Max power:	162 hp @ 2064 US gpm

**Performance Evaluation:**

Flow US gpm	Speed rpm	Head ft	Efficiency %	Power hp	NPSHr ft
1981	1785	221	69	160	20.9
1651	1785	277	78	149	13.8
1321	1785	308	76	134	10.3
991	1785	327	71	115	10
660	1785	337	61	95.2	10