

Company: Bonneville Power Administration

Name:

Date: 11/26/2006

**Pump:**

Size: 6"2825A
 Type: 2800-HSC
 Synch speed: 1800 rpm
 Curve: 250604A
 Specific Speeds:
 Dimensions:
 Speed: 1785 rpm
 Dia: 19.3 in
 Impeller: J6M1A1
 Ns: 1231
 Nss: 13166
 Suction: 10 in
 Discharge: 6 in

Pump Limits:

Temperature: 160 °F
 Pressure: 300 psi g
 Sphere size: 0.88 in
 Power: --- hp
 Eye area: --- in²

Search Criteria:

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

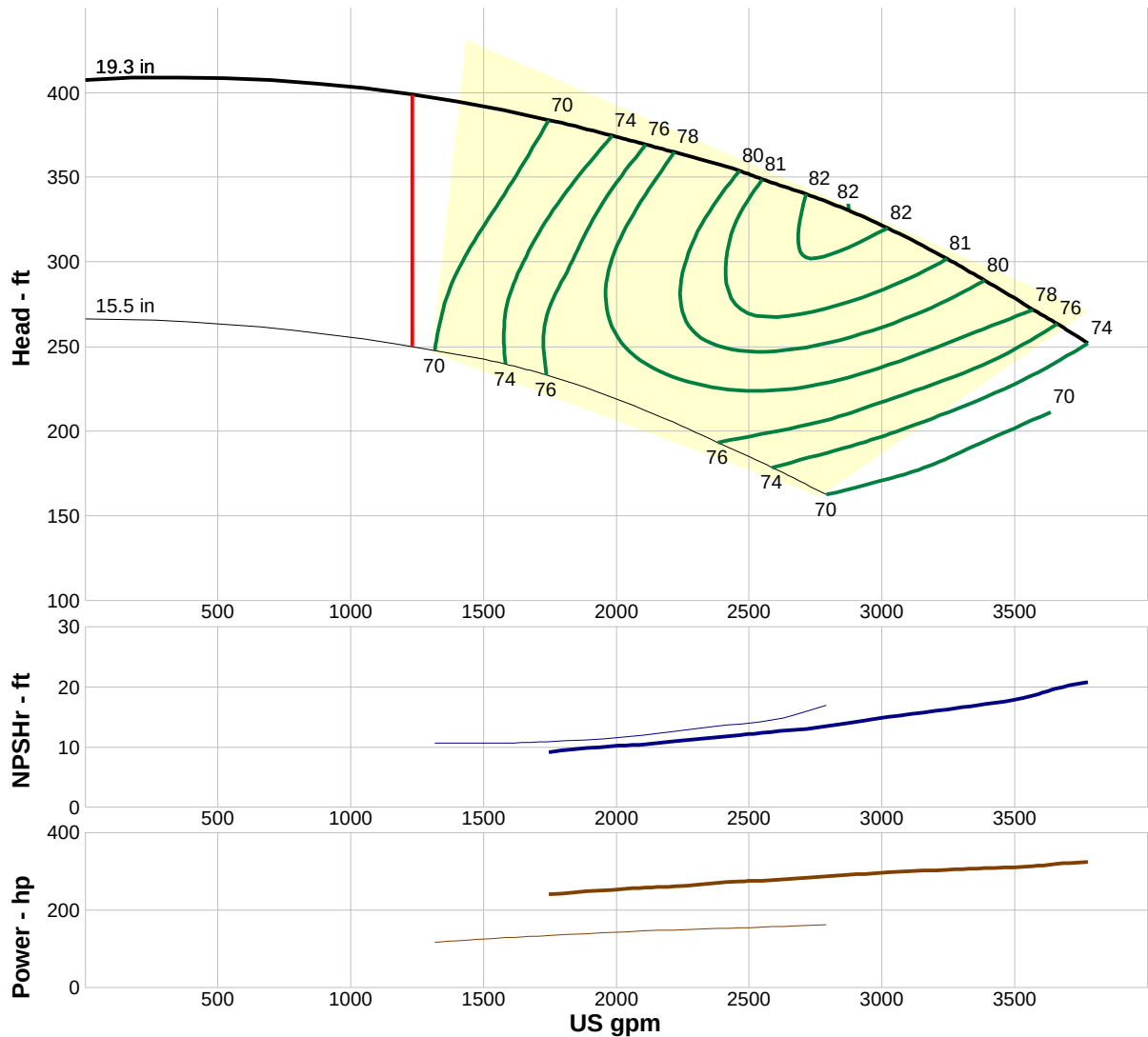
Fluid:

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: 350 hp
 Speed: 1800
 Frame: 449T

---- Data Point ----	
Flow:	2874 US gpm
Head:	330 ft
Eff:	82%
Power:	292 hp
NPSHr:	14 ft
---- Design Curve ----	
Shutoff head:	408 ft
Shutoff dP:	176 psi
Min flow:	1230 US gpm
BEP:	82% @ 2874 US gpm
NOL power:	325 hp @ 3775 US gpm
-- Max Curve --	
Max power:	325 hp @ 3775 US gpm

**Performance Evaluation:**

Flow US gpm	Speed rpm	Head ft	Efficiency %	Power hp	NPSHr ft
3624	1785	267	77	318	19.3
3020	1785	320	82	298	15
2416	1785	356	80	272	11.8
1812	1785	381	71	245	9.48
1208	1785	---	---	---	---