

Company: Bonneville Power Administration

Name:

Date: 11/26/2006

Pump:

Size: 6"2825A
 Type: 2800-HSC
 Synch speed: 1200 rpm
 Curve: 250606A
 Specific Speeds:
 Dimensions:
 Speed: 1185 rpm
 Dia: 19.3 in
 Impeller: J6M1A1
 Ns: 1209
 Nss: 9483
 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

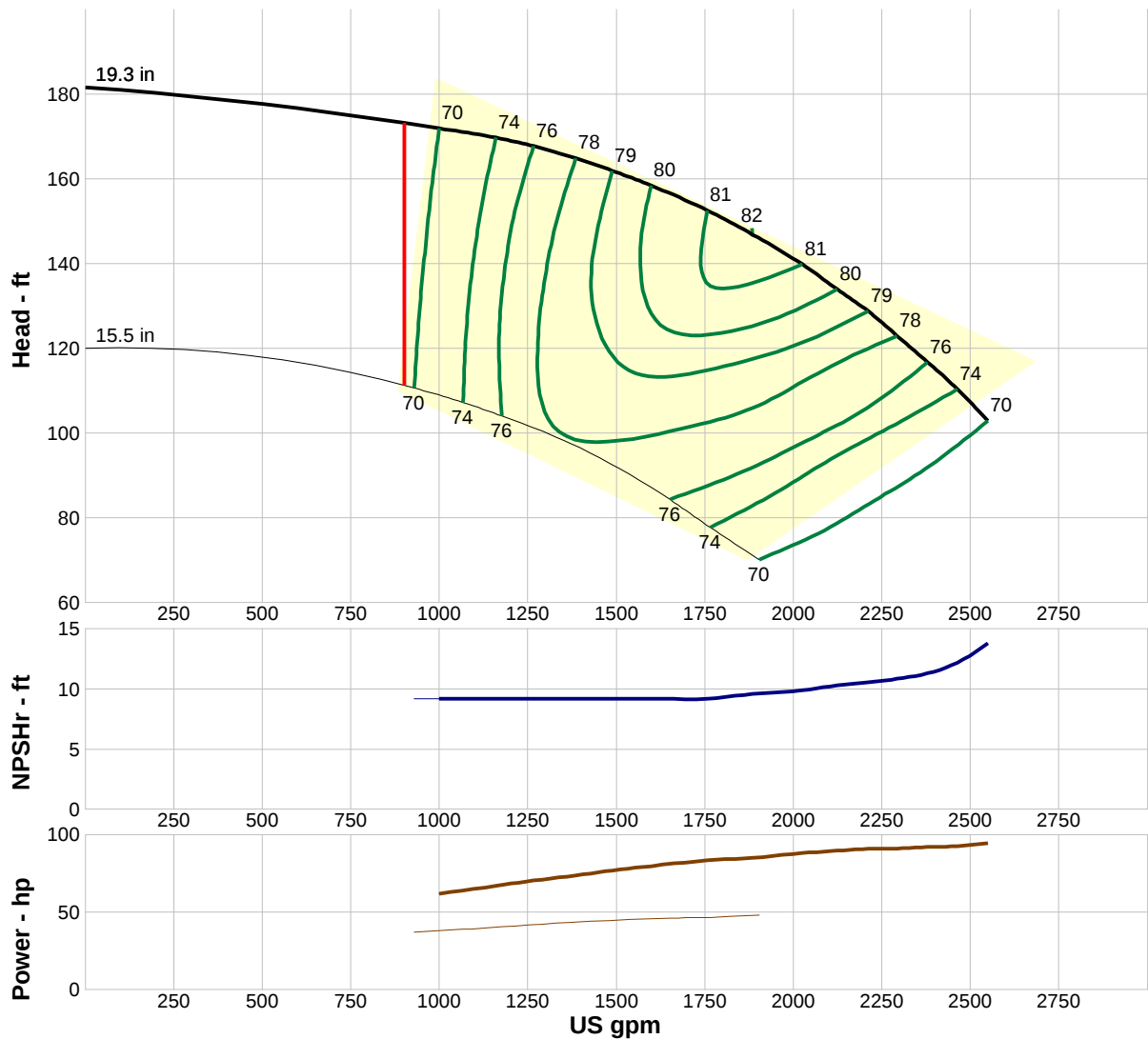
Fluid:

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: 100 hp
 Speed: 1200
 Frame: 444T

---- Data Point ----	
Flow:	1884 US gpm
Head:	147 ft
Eff:	82%
Power:	85.2 hp
NPSHr:	9.6 ft
---- Design Curve ----	
Shutoff head:	182 ft
Shutoff dP:	78.5 psi
Min flow:	900 US gpm
BEP:	82% @ 1884 US gpm
NOL power:	94.6 hp @ 2548 US gpm
-- Max Curve --	
Max power:	94.6 hp @ 2548 US gpm

**Performance Evaluation:**

Flow US gpm	Speed rpm	Head ft	Efficiency %	Power hp	NPSHr ft
2446	1185	112	74	92.7	12
2038	1185	139	81	88.5	9.96
1630	1185	157	80	80.7	9.2
1223	1185	169	75	69.2	9.2
815	1185	---	---	---	---