

Bates, Luke

From: Scott Perrin <peaksprairie@centurylink.net>
Sent: Wednesday, February 3, 2021 3:47 PM
To: Bates, Luke
Subject: RE: Pump Curve

Luke,

Thanks. I agree with 0.2cfs if pumping 600'. The well driller's log (tag # 0055515) shows static water level at 480'; not sure of draw down.

What do you come up with using 480' + 45 psi (104' of head)?

Thanks,

scott

From: Bates, Luke [mailto:Luke.Bates@idwr.idaho.gov]
Sent: Wednesday, February 3, 2021 2:21 PM
To: Scott Perrin
Subject: RE: Pump Curve

Scott,

I've reviewed your pump curve data, and completed a department theoretic pump equation using your well and pump information. Please see the attached document: PG1) pump curve with pump estimated to be approximately 600 ft deep equates to approximately **88 gpm**, PG2) Theoretic pump equation results in approximately **90 gpm = 0.20 cfs** considering department rounding standards with a 45 PSI operating pressure.

Regardless of whether I input 20 PSI up to 45 PSI, the department rounding standards still land on 0.20 cfs as a diversion rate.

Having said, my supervisor is good with this information. You DO NOT need to set up any hand line irrigation pipes for my visit, nor do anything out of the realm of your everyday irrigation practices. All I will do is capture some photographs, GPS the well, and we can discuss your irrigation system. I'm thinking start to finish it will be less than 1 hr easily.

I will get back to you later this spring, but I am narrowing down my field exams for that area to be either the 2nd or 3rd week of June, and will reach out once I lock in my itinerary.

Thanks for the information! Enjoy the day,

Luke Bates

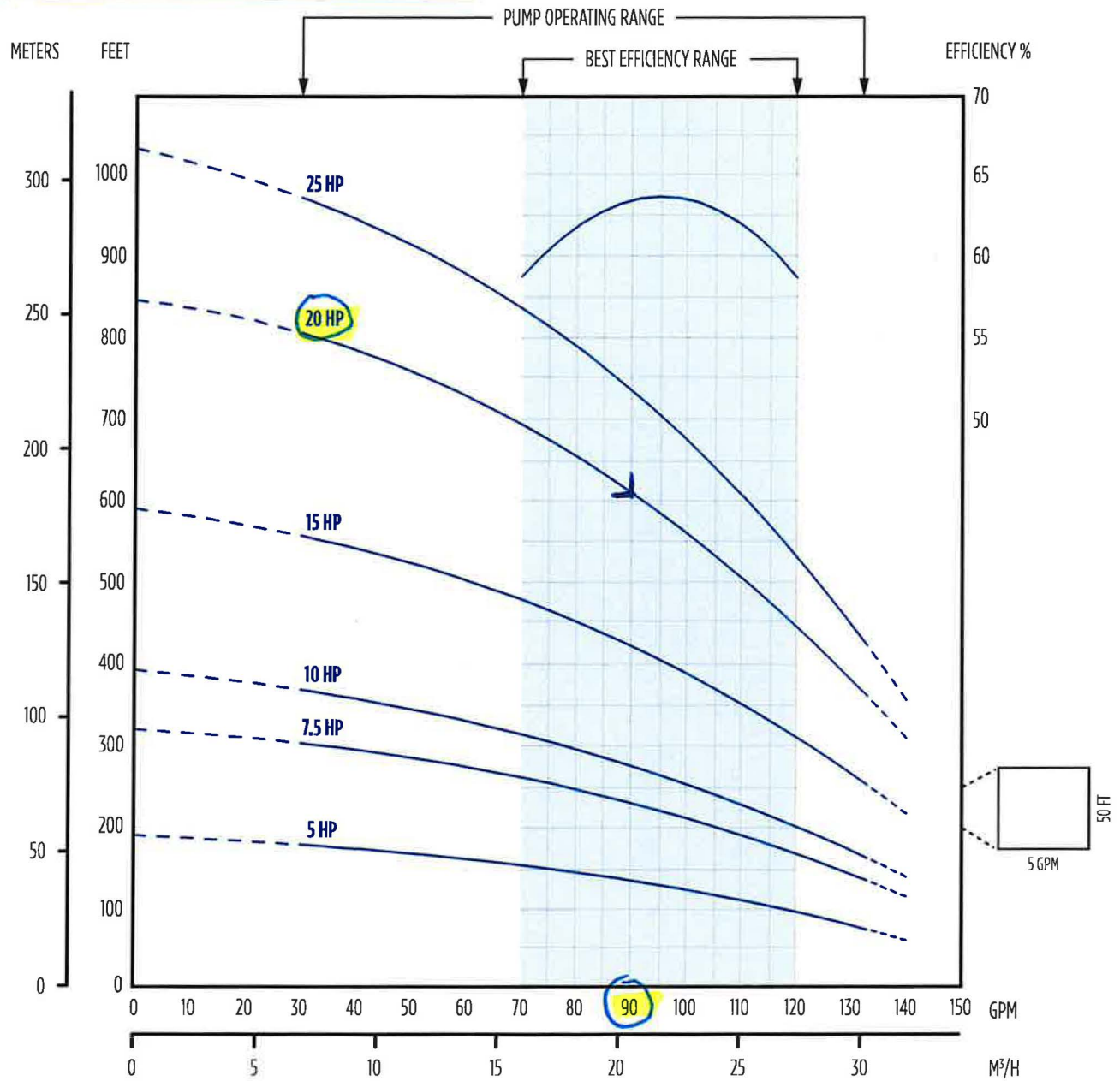
Water Resource Agent - IDWR

P: (208) 762-2800

Luke.bates@idwr.idaho.gov

6" HIGH CAPACITY PUMPS - 100 GPM

PERFORMANCE



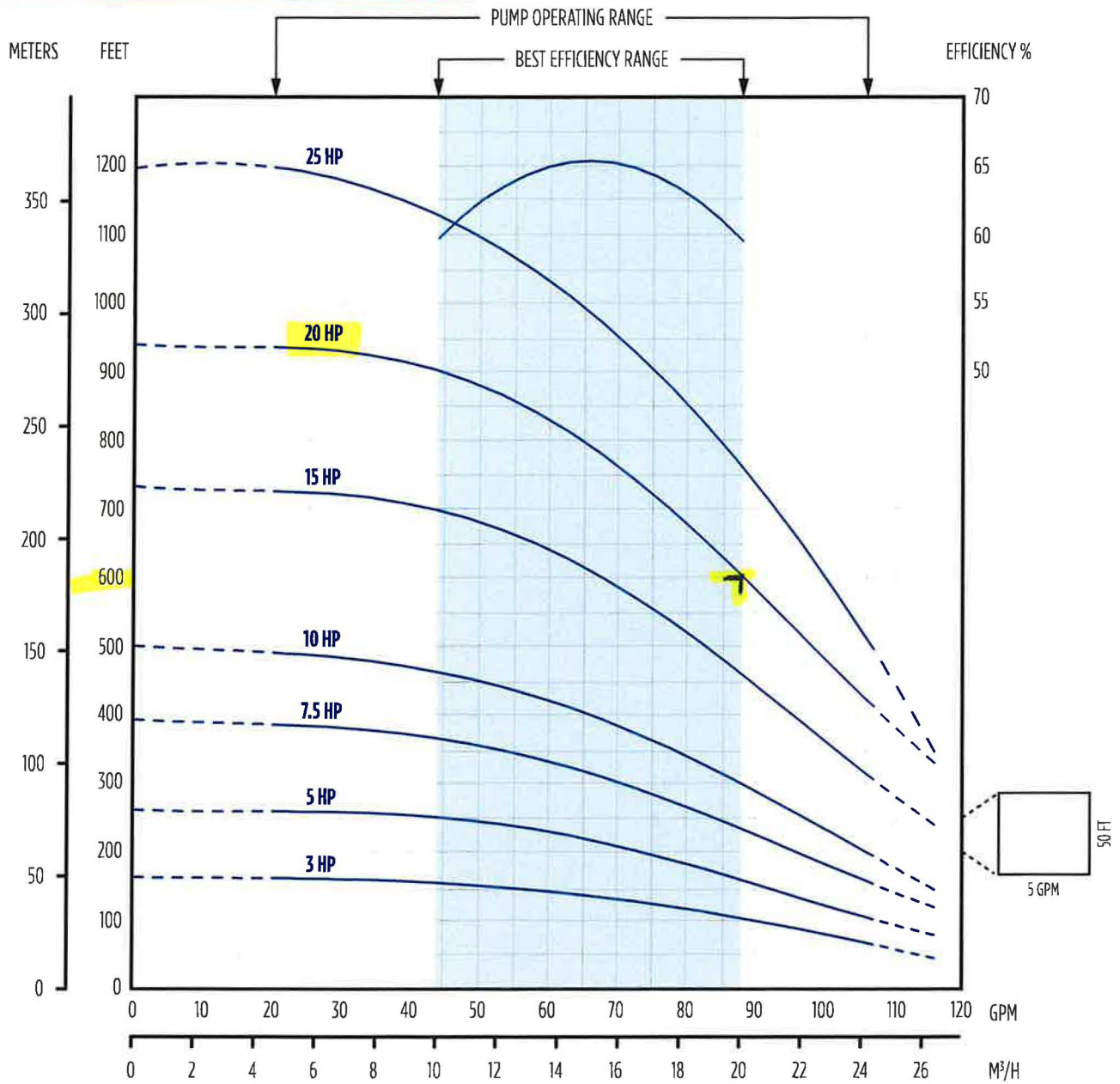


MENU

6" HIGH CAPACITY PUMPS - 75 GPM

20HP Pump in Well

PERFORMANCE



Bates, Luke

From: Scott Perrin <peaksprairie@centurylink.net>
Sent: Wednesday, February 3, 2021 1:01 PM
To: Bates, Luke
Subject: Fwd: Pump Curve
Attachments: mf5060_fps_residential_submersible_catalog.pdf; ATT00001.htm

Luke, pump curve is on p 62 below. Pump is 20 hp 75gpm at peak pressure. Because I operate drip irrigation my pressure ranges between 20 and 50 psi which would be closer to 90+ gpm at the lower pressure.

Scott

Sent from my iPhone

Begin forwarded message:

From: Jason Anderson <fordscreekpump@gmail.com>
Date: February 3, 2021 at 12:34:45 PM PST
To: peaksprairie@centurylink.net
Subject: Pump Curve

Hi Scott,
Look on page 62 of the PDF file.

Thanks,

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Jason
FORDS CREEK PUMP
208-476-3982

