

Saxton, Craig

From: Saxton, Craig
Sent: Tuesday, November 08, 2011 11:04 AM
To: 'Charles E. Brockway'; Amy Runser
Cc: af@4brosdairy.com; af@4bros.myrf.net
Subject: RE: Permit 37-7033 4 Bros. Dairy
Attachments: 37-07033 Permit Amendment (11-8-11).docx

Sensitivity: Confidential

Mr. Brockway,

Thanks for the additional information. I can support and increase in diversion rate as you recommend with one minor change. In order to prevent licensing 37-7066 with a diversion rate that would exceed 1" per acre when combine with (37-2647) 37-22574, the diversion rate for 37-7033 needs to be limited to 2.16 cfs.

Prior to TR 75603 there was a 211 acre PPU shared between rights 37-7033 and 37-2647:

211 acres at 1" per acre = 4.22 cfs

37-2647 was licensed with a diversion rate of 2.06 cfs

$4.22 \text{ cfs} - 2.06 \text{ cfs} = 2.16 \text{ cfs}$ available to be licensed under 37-7033.

I have updated the attached licensing amendment to reflect a diversion rate of 2.16 cfs. Let me know what you think.

Thanks,
Craig

From: Charles E. Brockway [<mailto:charles.e.brockway@brockwayeng.com>]
Sent: Monday, November 07, 2011 3:29 PM
To: Saxton, Craig; Amy Runser
Cc: af@4brosdairy.com; af@4bros.myrf.net
Subject: RE: Permit 37-7033 4 Bros. Dairy
Sensitivity: Confidential

Craig: Thanks for the update and the extension of time to submit a response.

The Department's determination that the combined acreage for 37-7033 and 37-2647 is limited to 202 acres is correct.

The determination by Jim Stanton (DWR agent) in 1993 that the discharge capacity of the well was 3.58 cfs is incorrect.

Based on data obtained from Layne Pump Company and using the theoretical discharge calculation since no flow measurements were made, we believe the well pump discharge should be as follows:

Total Dynamic Head (TDH)

Lift= 128 ft as utilized by Jim Stanton(based on well driller's log)

Operating Pressure= 70 psi based on Owner's Statement-1988(attached)

$\text{TDH} = (\text{Lift}) + (\text{Psi} \times 2.31) = 128 + 70 \times 2.31 = 289.7 \text{ ft}$

Saxton, Craig

From: Charles E. Brockway [charles.e.brockway@brockwayeng.com]
Sent: Monday, November 07, 2011 3:29 PM
To: Saxton, Craig; Amy Runser
Cc: af@4brosdairy.com; af@4bros.myrf.net
Subject: RE: Permit 37-7033 4 Bros. Dairy
Attachments: PUMP CURVE DATA.pdf; MCCOWAN STATMENT 88.JPG

Sensitivity: Confidential

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The Department's determination that the combined acreage for 37-7033 and 37-2647 is limited to 202 acres is correct.

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Operating Pressure = 70 psi based on Owner's Statement-1988 (attached)

$TDH = (Lift) + (Psi \times 2.31) = 128 + 70 \times 2.31 = 289.7 \text{ ft}$

Utilizing the pump curve data for the 12THC, 5 stage pump, as provided by Layne Pump (attached), the calculated discharge is 1920 gpm or 4.27 cfs.

Subtracting the allowed discharge under 37-2647, the remaining discharge for 37-7033 is therefore $4.27 - 2.06 = 2.21$ cfs instead of 1.52 as recommended on the permit amendment.

I am therefore requesting that the recommendation for the discharge for licensing of 37-7033 be 2.21 cfs.

Thanks for your consideration on this matter.

Charles E. Brockway

From: Saxton, Craig [mailto:Craig.Saxton@idwr.idaho.gov]
Sent: Thursday, October 20, 2011 11:30 AM
To: Amy Runser
Cc: Charles E. Brockway; af@4brosdairy.com; af@4bros.myrf.net
Subject: RE: Permit 37-7033 4 Bros. Dairy
Sensitivity: Confidential

Amy,

I would be happy to meet with to discuss the proposed permit amendment for 37-7033. With that said, I wanted to address a couple of things in your memo that might help explain why the proposed amendment looks the way it does.

I agree with the 211 acre place of use you found in the aerial photography and therefore the overall place of use on the amendment is 211 acres. When permit 37-7033 was approved in November of 1968, it authorized development of 160 acres. Therefore a 160 acre limit for 37-7033 cannot be avoided.

It is my understanding that permit 37-7033 and license 37-2647 (before transferred) were used on the same 211 acres. So when TR 75603 required drying up 9 acres, the overall place of use that could be irrigated was

reduced to 202 acres. Therefore both rights are limited to 202 acres in the 211 acre PPU (Ideally the overall PPU would be 202 acres after approval of TR 75603, but 37-22574 kept the 211 acre PPU so I carried that through.)

As far as the diversion rate, I am interpreting that the 3.58 cfs was what Jim calculated as the capacity of the well rather than basing his recommended diversion rate on number of acres or duty of water. See page 47 of backfile:

<http://www.idwr.idaho.gov/apps/ExtSearch/DocImages/3rp901 .PDF>

3.58 cfs – 2.06 cfs licensed under 37-2647 gives us the 1.52 recommended on the permit amendment.

I try to summarize most of this in a licensing memo that can be found in the related documents on the web or at the link below.

http://www.idwr.idaho.gov/apps/ExtSearch/DocImages/hx_k01 .pdf

I do apologize if I am referencing documents you have already looked at and you already have determined that they did not address your questions/concerns. If you still feel a face to face meeting would be beneficial, then we can certainly schedule something. I am available tomorrow and all next week, short of Thursday.

Thanks for your time,

Craig L. Saxton

From: Amy Runser [<mailto:amy.runser@brockwayeng.com>]
Sent: Thursday, October 20, 2011 8:56 AM
To: Saxton, Craig
Cc: Charles E. Brockway; af@4brosdairy.com; af@4bros.myrf.net
Subject: Permit 37-7033 4 Bros. Dairy
Sensitivity: Confidential

Craig,

Please see attached document, regarding permit 37-7033 review.

Thanks,

Amy

Amy Runser
Sr. Graphic Technician
Brockway Engineering, PLLC.
(208) 736-8543

Computation Of Well Output For Reinstatement of Permit

37-7033

Well runs 436 Rainbird heads with 9/64" nozzles and 70 psi at the well head.
At 4.84 gpm per nozzle (Rainbird data), this totals 2110 gpm.

The aerial photo needed has already been submitted by my attorney.

Herb M^c Cowan

MICROFILMED

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