

STATE OF IDAHO  
DEPARTMENT OF WATER RESOURCES  
BENEFICIAL USE FIELD REPORT

**A. GENERAL INFORMATION**

Permit No: 63-11874

Exam Date: 6/16/2016

1. Current Owner:  
L DARWIN MC KAY 6100 S EAGLE RD MERIDIAN ID 83642 (208)888-3760
2. Accompanied by:  
Phone No: DARWIN MC KAY  
Address: 6100 S EAGLE RD, MERIDIAN ID 83642  
Relationship to Permit Holder: Permit Holder

**3. SOURCE: GROUND WATER****B. OVERLAP REVIEW**

1. Other water rights with the same place of use: New York Irrigation District (water right 63-372) is the overlapping surface water provider. Water Right 63-11831 has 1.6 acres of irrigation in the SWSE but is not a direct overlap. Water right 63-32232 has 34.0 acres in the SWSW and 3.0 acres in the SESW but is not a direct overlap. A list of all overlapping rights is included in the attached "overlap analysis" spreadsheet.

2. Other water rights with the same point-of-diversion: Water right 63-32232 shares both of the PODs (POD #1 and POD#2) that will be listed on license. Water right 63-11831 shares one of the PODs (POD #1) listed on the license. Other PODs in the QQ are listed on the attached overlap analysis. There is a third POD that will not be listed on this license but will be included in overlapping conditions that is described in the attached "overlapping conditions" spreadsheet.

**C. DIVERSION AND DELIVERY SYSTEM****1. LOCATION OF POINT(S) OF DIVERSION:**

GROUND WATER SW¼SE¼ Sec. 33, Twp 03N, Rge 01E, B.M. ADA County

GROUND WATER SW¼SW¼ Sec. 33, Twp 03N, Rge 01E, B.M. ADA County

Method of Determination: Visual inspection and GPS coordinates taken during the exam.

2.

**PLACE OF USE: IRRIGATION**

| Twp | Rge | Sec | NE |    |    |    | NW |    |    |    | SW |    |     |      | SE |    |    |    | Totals |
|-----|-----|-----|----|----|----|----|----|----|----|----|----|----|-----|------|----|----|----|----|--------|
|     |     |     | NE | NW | SW | SE | NE | NW | SW | SE | NE | NW | SW  | SE   | NE | NW | SW | SE |        |
| 03N | 01E | 33  |    |    |    |    |    |    |    |    |    |    | 4.0 | 32.0 |    |    |    |    | 36.0   |

Total Acres: 36.0

Method of Determination: Aerial photography and GIS.

3.

Delivery System Diagram Attached (required). Indicate all major components and distances between components.

☒ Indicate weir size/pipe as applicable.☒ Map Attached Showing Location(s) of point(s) of diversion and place(s) of use (required). Scale must be 1:24,000 or greater.☒ Aerial Photo Attached (required for irrigation of 10+ acres).☒ Photo of Diversion and System Attached

4.

| Well or Diversion ID No.         | Motor Make | Hp  | Motor Serial No. | Pump Make    | Pump Serial No. or Discharge Size |
|----------------------------------|------------|-----|------------------|--------------|-----------------------------------|
| POD#1<br>D0039124* /<br>A0019161 | Unknown    | 30* | Unknown          | National*    | Submersible pump to 6" plumbing * |
| POD#2<br>A0019160                | Hittachi   | 20* | Unknown          | Submersible* |                                   |

\*Information was obtained from field exam of water right 63-11831

\*\*Information was obtained from field exam of water right 63-32232 (63-10780)

**D. FLOW MEASUREMENTS**

1.

| Measurement Equipment | Type | Make | Model No. | Serial No. | Size | Calib. Date |
|-----------------------|------|------|-----------|------------|------|-------------|
| See below             |      |      |           |            |      |             |
|                       |      |      |           |            |      |             |

2. Measurements: No measurements were taken for this report. A measurement taken during the field exam of water right 63-10780 (parent of 63-32232) was used for POD #2 and the theoretical used in the field exam of water right 63-11831 was used for POD #1 as the permit holder no longer owned the well and pump related to POD#1 at the time of the exam. A field exam of water right 63-10416 (parent of 63-32649 and 63-32650) determined a flow rate of 2.0 cfs for POD#3 that will not be listed on the license but will be used in overlapping conditions.

**E. FLOW CALCULATIONS**

Measured Method: For conditions

Additional Computation Sheets Attached

POD#1 – Information obtained from field exam of 63-11831

Theoretical calculation based on 30 HP submersible pump, 130' maximum pumping water level based on a pump setting near 130', 38 PSI discharge per field exam, assumed 70% efficiency.

$$30 \times 0.70 \times 8.8 / 130 + (38 \times 2.31) = 0.85 \text{ cfs}$$

POD #2 – Information obtained from field exam of 63-10780 (parent of 63-32232)

Rotor type meter – Grainland - serial #11139 – calculations performed through 1"port along with applicable pipe size determined 356 GPM = 0.79 cfs

**Total rate between POD #1 and POD #2 = 0.85 cfs + 0.79 cfs = 1.64 cfs**

POD#3 – Information obtained from field exam of 63-10416 (parent of 63-32649 and 63-32650)

Measured discharge in concrete ditch 2.0 cfs

**Total rate between POD#1, POD#2, and POD#3 = 0.85cfs + 0.79cfs + 2.0cfs = 3.64 cfs**

Permit Allows: 36.0 acres x 0.02 cfs = 0.72 cfs total

Field Exam determined 36.0 total acres irrigated x 0.02 cfs = 0.72 cfs

**Recommend total for licensing 0.72 cfs****F. VOLUME CALCULATIONS**

1. Volume Calculations for Irrigation:

$$V_{IR} = (\text{Acres Irrigated}) \times (\text{Irrigation Requirement}) = 36.0 \text{ ac} \times 4.5 \text{ AF} = 162.0 \text{ AFA}$$

$$V_{DR} = [\text{Diversion Rate (cfs)}] \times (\text{Days in Irrigation season}) \times 1.9835 = 845.8 \text{ AF}$$

$$V = \text{Smaller of } V_{IR} \text{ and } V_{DR} = 162.0 \text{ AF}$$

NOTE: The irrigation occurring under this permit is to be supplemental to surface water. No volume amount or limit should be listed on a supplemental groundwater water right license.

2. Volume Calculations for Other Uses: N/A

**G. NARRATIVE/REMARKS/COMMENTS**

Darwin McKay is the owner of permit 63-11874 for 36 acres of supplemental irrigation. During our field exam, Darwin described how the land ownership and the irrigation system had changed since the permit was originally approved. Darwin stated that he no longer owned the 36 acres associated with the permit however he did want to properly license the permit and then have the new owners (Brighton Development) do a change in ownership with the license. He stated that the irrigation system is currently only using one point of diversion (POD) however two PODs were used during the development of the permit. The permit originally listed three PODs.

The irrigation system of the permit is intended to supplement shares of surface water from the New York Canal. Surface water is delivered from the west side of the POU and the south east side of the POU. The first well that supplied water to the irrigation system is located in the SWSWSE Sec 33 (referred to as POD #1). A well tag was put onto the well head (A0019161) during the exam. Darwin stated that this well was used during the development of the permit however he recently sold the well to the golf course located south east of the permit. This well is not currently being used for the irrigation system related to the permit. This well is shared with water rights 63-32232 and 63-11831. This well should be kept on the license however combined use limits should be placed on the license as it is a shared POD. A field exam of water right 63-11831 gave a theoretical pump calculation of 0.85 cfs to the pump associated with this well. This calculation will be used as the well is currently not operated by the permit holder and we were unable to take a measurement during our exam.

Water was diverted from second well in the NWSWSW Sec 33 (referred to as POD #2) during the development of the permit and should be listed as a second point of diversion on the license. This POD is shared with water right 63-32232. The field exam of water right 63-10780 (parent of 63-32232) determined a measurement of 356 gpm or 0.793 cfs from this well. An ID tag (A0019160) was put on to the well during the exam. This well was running at the time of our exam and Darwin McKay explained that it was only being used for "short spurts" to water the young bean plants at the POU of water right 63-32232. This well was located in close proximity to the surface water pumps that are tied into the irrigation system.

A third POD was approved for permit 63-11874 however Darwin stated that the well in the NESE Sec 32 (referred to as POD #3) was no longer in use nor was it tied to the irrigation system used for this permit. An ID tag (A0019162) was put onto the well during our exam. During our exam, it was noticed that this pump was still tied into the surface water canal pipe that was shared with the same surface water canal pipe that was used at POD #2. A discussion with Darwin clarified the logistics of how the pump would have to be used with existing piping and the expenses related to pumping from this location. It was understandable how and why the pump at POD#3 was not used with this permit. POD #3 should be removed for licensing as it was stated that it was not used during the development of the permit and it will not be used moving forward.

Wheel lines were used for the irrigation at the place of use. Calculations were not done on the sprinklers as the permit holder no longer owned the property. The total diversion limit of the two PODs associated with this license has been determined to be 1.64 cfs (POD#1 = 0.85 cfs + POD#2 = 0.79cfs). The license should have a combined use limit of 1.64 cfs for water rights 63-11874, 63-11831, and 63-32232. The license should also have a combined limit of all three PODs as water right 63-32232 lists three PODs and it is tied into the two PODs that will be listed on the permit. The total diversion of rate of the three PODs has been determined to be 3.64 cfs (POD#1 0.85cfs + POD#2 0.79 cfs + POD#3 2.0 cfs).

Have conditions of permit approval been met?   X   Yes        No

Condition 26A and 046 should be removed from the license and all other conditions on the permit should remain on the license. Two x35 conditions should be added to the license in regards to the overlapping water rights of the three PODs mentioned in the narrative.

**H. RECOMMENDATIONS****1. Recommended Amounts**

BENEFICIAL USE  
IRRIGATION

PERIOD OF USE  
03/01 to 11/15

DIVERSION RATE  
0.72 CFS

ANNUAL VOLUME  
N/A

Totals: 0.72 CFS

Permit 63-11874 irrigation system diagram and Point of Diversions. Map created by Steven Visosky 7-12-2016

POD #3- should be removed from permit 63-11874 at licensing. POD of water rights 63-32232, 63-32649, and 63-32650. Well capacity 2.00 cfs.

POD #2 shared with water rights 63-32232 and 63-11874. Well capacity 0.79 cfs

POU for permit 63-11874

Canal for surface water and mainline for irrigation.

Canal for surface water and mainline for irrigation.

POD #1 - shared with WR 63-11831, WR 63-32232, permit 63-11874, and permit 63-12097. Well capacity 0.85 cfs

POD of water right 63-32916 and 63-32915. These rights have combined limits with rights at POD #3 but are from different source.

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Well capacity 0.85 cfs

**POD of water right 63-32916 and 63-32915.**  
These rights have combined limits with rights at POD #3 but are from different source.

The map shows a grid of land parcels with labels such as NENE, NWNW, NENW, NWNE, SENE, SWNW, SENW, SWNE, NESE, NWSW, NESW, SESE, SWSW, SESW, and SWSE. Roads shown include E Taconic Dr, S Eagle Rd, Howry Ln, W Woodville St, W Renwick St, W Tevoit St, W Mardia St, W Levin St, W Huntly Dr, W Gisborne St, W Medalist, E Lake Hazel Rd, E Alder Hof Ln, and E Adler Hof Ln. A blue line indicates the mainline for irrigation, and a red line indicates a canal for surface water. Green dots mark the points of diversion (POD) and point of use (POU). Blue arrows indicate flow directions from the mainline into the fields.

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Map created by Steven Visosky 7-12-2016

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**POU for permit 63-11874**

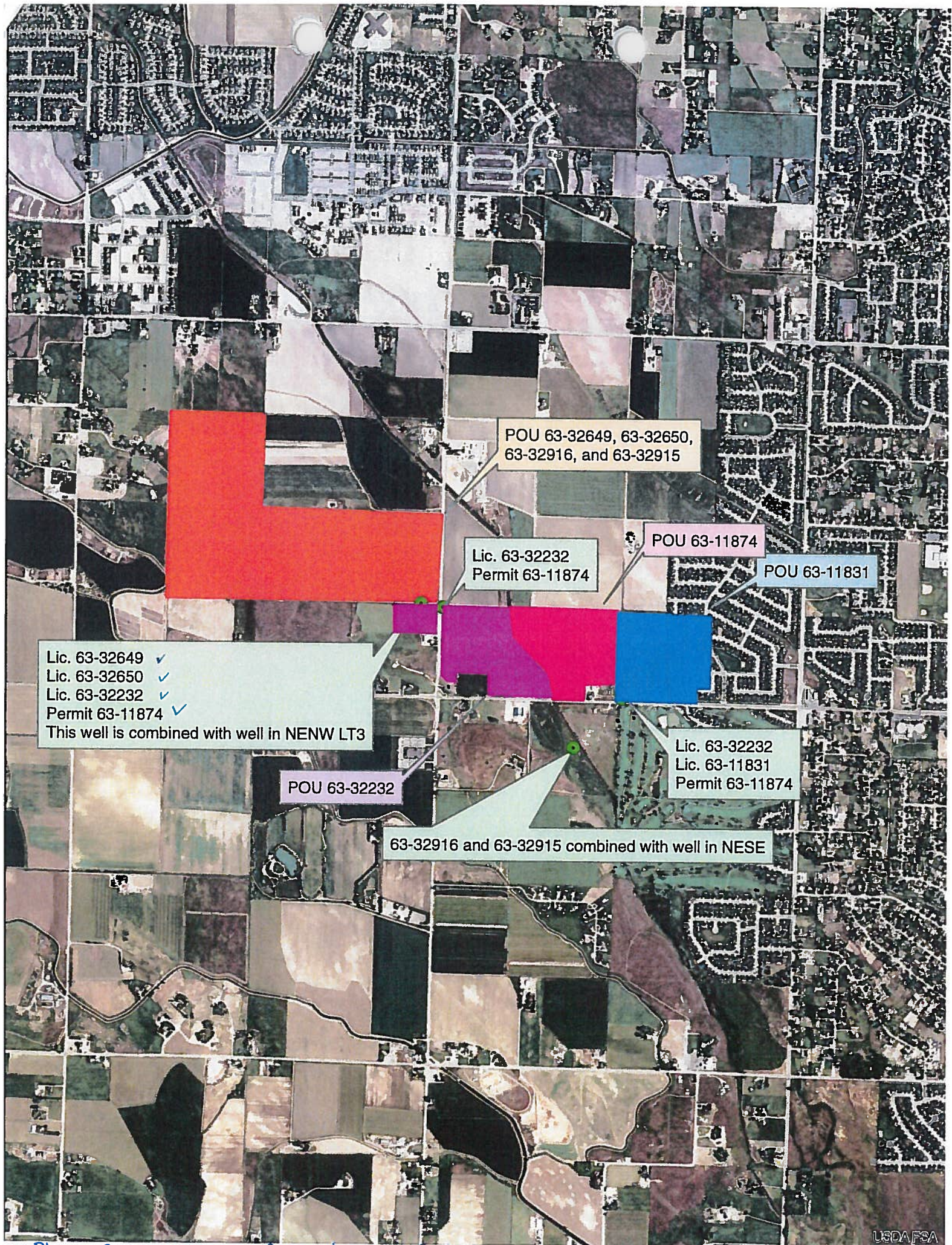
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**POD of water right 63-32916 and 63-32915.**  
These rights have combined limits with rights at POD #3 but are from different source.

The map shows a grid of land parcels with various labels such as NENE, NWNW, SENW, SENE, SWNE, NWSE, NESE, SESE, SWSW, SESW, NENE 1, NWNW 4, NENW 3, NWNE 2, SENE, SWNW, and SENW. It also displays several roads including E Eagle Rd, S Eagle Rd, E Taconic Dr, E Lake Hazel Rd, E Alder Hof Ln, E Adler Hof Ln, W Woodville St, W Renwick St, W Tevoit St, W Mardia St, W Levin St, W Huntly Dr, W Gisborne St, W Medalist, S Achiron Ave, and S Ansley. A blue line indicates the mainline for irrigation, and a red line indicates the canal for surface water. Green dots mark the points of diversion (POD) and point of use (POU). Blue arrows indicate the flow direction of water from the canals into the fields.



POU 63-32649, 63-32650,  
63-32916, and 63-32915

Lic. 63-32232  
Permit 63-11874

POU 63-11874

POU 63-11831

Lic. 63-32649 ✓  
Lic. 63-32650 ✓  
Lic. 63-32232 ✓  
Permit 63-11874 ✓  
This well is combined with well in NENW LT3

POU 63-32232

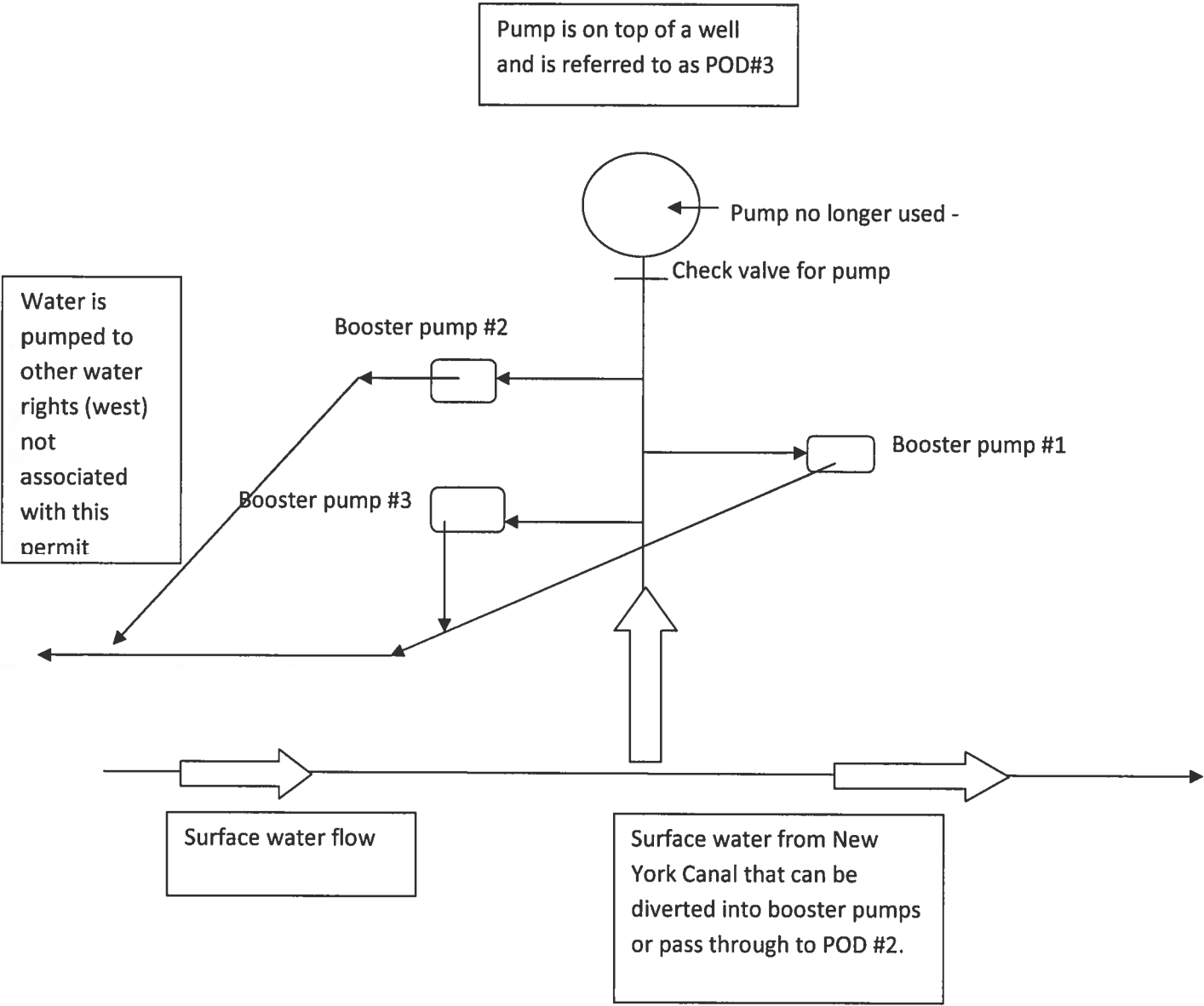
Lic. 63-32232  
Lic. 63-11831  
Permit 63-11874

63-32916 and 63-32915 combined with well in NESE

Place of Use overlaps for Field exam of 63-11874 7.12.2016

By Steven Visosky

Diagram of pumping station at POD#3- This is the POD that will be removed from the license



Overlap analysis for 63-11874  
By Steven Visosky 7-12-2016

| Process      | Water Right | Draft | Owner                                                                                                                                      | Source         | POU | Use        | SWS W | SES W | Total Acres | Comment                                           |
|--------------|-------------|-------|--------------------------------------------------------------------------------------------------------------------------------------------|----------------|-----|------------|-------|-------|-------------|---------------------------------------------------|
| Water Permit | 63-11874    | N     | MC KAY, L DARWIN                                                                                                                           | GROUND WATER   | POU | IRRIGATION | 5     | 31    | 36          | Permit under review                               |
| Water Right  | 63-32232    | N     | MC KAY, DARWIN L; STERLING SAVINGS BANK; THE TURF COMPANY LLC                                                                              | GROUND WATER   | POU | IRRIGATION | 34    | 3     | 37          | POU directly to the west of permit POU            |
| Water Right  | 63-11831    | N     | MC KAY, DONNA R; MC KAY, L DARWIN; SPF WATER ENGINEERING LLC                                                                               | GROUND WATER   | POU | IRRIGATION |       | 1.6   | 40          | 1.6 acres of irrigation on east side of SESW.     |
| Water Right  | 63-372      | N     | BARKER ROSHOLT & SIMPSON LLP; BOISE KUNA IRRIGATION DISTRICT; FREDRICKS, RANDALL C; GIVENS, RAYMOND D; <b>NEW YORK IRRIGATION DISTRICT</b> | BOISE RIVER    | POU | IRRIGATION | X     | X     |             | <b>DIRECT OVERLAP</b> - surface water at property |
| Water Right  | 63-136      | N     | BARKER ROSHOLT & SIMPSON LLP; BOISE PROJECT BOARD OF CONTROL; GIVENS, RAYMOND D; H L RANDAL ET AL; PIONEER DIXIE DITCH CO                  | BOISE RIVER    | POU | IRRIGATION | X     | X     |             | DIRECT OVERLAP - surface water                    |
| Water Right  | 63-137B     | N     | BARKER ROSHOLT & SIMPSON LLP; BOISE PROJECT BOARD OF CONTROL; GIVENS, RAYMOND D; PIONEER DIXIE DITCH CO                                    | BOISE RIVER    | POU | IRRIGATION | X     | X     |             | DIRECT OVERLAP - surface water                    |
| Water Right  | 63-200A     | N     | BARKER ROSHOLT & SIMPSON LLP; BOISE PROJECT BOARD OF CONTROL; GIVENS, RAYMOND D; NAMPA-MERIDIAN IRR DIST                                   | BOISE RIVER    | POU | IRRIGATION | X     | X     |             | DIRECT OVERLAP - surface water                    |
| Water Right  | 63-233K     | N     | AMERICAN DITCH CO; BARKER ROSHOLT & SIMPSON LLP; BOISE PROJECT BOARD OF CONTROL; GIVENS, RAYMOND D; RANDALL ET AL                          | BOISE RIVER    | POU | IRRIGATION | X     | X     |             | DIRECT OVERLAP - surface water                    |
| Water Right  | 63-2106     | N     | UNITED STATES OF AMERICA ACTING THROUGH                                                                                                    | FIVEMILE CREEK | POU | IRRIGATION | X     | X     |             | DIRECT OVERLAP                                    |

Overlap analysis for 63-11874  
By Steven Visosky 7-12-2016

|              |          |   |                                            |               |     |            |          |          |             |                                                                  |
|--------------|----------|---|--------------------------------------------|---------------|-----|------------|----------|----------|-------------|------------------------------------------------------------------|
| Water Right  | 63-2392F | N | BOISE PROJECT BOARD OF CONTROL             | WASTE WATER   | POU | IRRIGATION | X        | X        |             | Direct overlap-<br>multiple water rights                         |
| Water Right  | 63-251A  | N | UNITED STATES OF AMERICA ACTING<br>THROUGH | BOISE RIVER   | POU | IRRIGATION | X        | X        |             | Direct overlap                                                   |
| Water Right  | 63-33251 | N | BOISE PROJECT BOARD OF CONTROL             | INDIAN CREEK  | POU | IRRIGATION | X        | X        |             | Direct overlap                                                   |
| Water Right  | 63-33253 | N | BOISE PROJECT BOARD OF CONTROL             | TENMILE CREEK | POU | IRRIGATION | X        | X        |             | Direct overlap                                                   |
| Water Right  | 63-137B  | N | BOISE PROJECT BOARD OF CONTROL             | SNAKE RIVER   | POU | IRRIGATION | X        | X        |             | Direct overlap                                                   |
| Water Right  | 63-373A  | N | UNITED STATES OF AMERICA ACTING<br>THROUGH | BOISE RIVER   | POU | IRRIGATION | X        | X        |             | Direct overlap                                                   |
| Water Right  | 63-10105 | N | CITY OF MERIDIAN                           | GROUND WATER  | POU | MUNICIPAL  | X        | X        |             | Municipal                                                        |
|              |          |   |                                            |               |     |            |          |          |             |                                                                  |
|              |          |   |                                            |               |     |            |          |          |             |                                                                  |
| POD Overlaps |          |   |                                            |               |     |            | SW<br>SE | SW<br>SW | NESE<br>S32 |                                                                  |
| Water Right  | 63-11874 | N | MC KAY, L DARWIN                           | Ground water  | POD |            | X        | X        | X           | Permit under review -<br>NESE was not used<br>during development |
| Water Right  | 63-32232 | N | MC KAY, L DARWIN                           | Ground water  | POD |            | X        | X        | X           | <b>Direct overlap</b>                                            |
| Water Right  | 63-11831 | N | MC KAY, L DARWIN, MC KAY DONNA             | Ground water  | POD |            | X        |          |             | <b>Direct overlap</b>                                            |
| Water Permit | 63-12097 |   | WILSON PROPERTIES / GIVENS PURSLEY         | Ground water  | POD |            | X        |          |             | <b>Direct overlap</b>                                            |
| Water Right  | 63-17815 | N | HIATT, CHARLES; HIATT, JANET               | Ground water  | POD |            | X        |          |             | stockwater/domestic                                              |
| Water Right  | 63-32649 | N | MC KAY PROPERTIES                          | Ground Water  | POD |            |          |          | X           | <b>Direct overlap</b>                                            |
| Water Right  | 63-32650 | N | BLACKROCK LLC                              | Ground Water  | POD |            |          |          | X           | <b>Direct overlap</b>                                            |

|                      | Diversion limit | Water Right     | Rate (CFS) |                                                                                       |
|----------------------|-----------------|-----------------|------------|---------------------------------------------------------------------------------------|
| POD #1               | 0.85 cfs        |                 |            | Obtained from previous field exam of WR 63-11831                                      |
|                      |                 | 63-11831        | 0.80       |                                                                                       |
|                      |                 | 63-32232        | 0.72       |                                                                                       |
|                      |                 | <b>63-11874</b> | 0.72       |                                                                                       |
|                      |                 |                 |            |                                                                                       |
| POD#2                | 0.79 cfs        |                 |            | Obtained from previous field exam of WR 63-10780 (parent of WR 63-32232)              |
|                      |                 | 63-32232        | 0.72       |                                                                                       |
|                      |                 | <b>63-11874</b> | 0.72       |                                                                                       |
| Total of POD #1 &2   | 1.64 cfs        |                 |            |                                                                                       |
|                      |                 |                 |            |                                                                                       |
| POD#3                | 2.0 cfs         |                 |            | Obtained from previous field exam of WR 63-10416 (parent of WR 63-32649 and 63-32650) |
|                      |                 | 63-32649        | 1.89       |                                                                                       |
|                      |                 | 63-32650        | 0.11       |                                                                                       |
|                      |                 | 63-32232        | 0.72       |                                                                                       |
| Total of POD#1,2, &3 | 3.78 cfs        |                 |            |                                                                                       |
|                      |                 |                 |            |                                                                                       |



POD#1. This is one of the two PODs originally used to develop the permit and will be listed on the permit however we were told this well was recently sold to the golf course in the back right corner of the photo on the other side of the street.



A look at the pump controllers for the surface water pumps at POD #1.

Water Right -63-11874

Photographer -Steven Visosky

Exam date - 6/16/2016



The power box that controls the pump at POD #1. The power was off on the day we visited the property. This is the power for the well that was sold to the golf course.



A look at the surface water diversion area with the place of use for 63-11874 in the background of the photo



POD #2 – this is currently the main supply of the irrigation system when being supplied from ground water. Tag A0019160 was placed on the well.



A look north from POD #2 that shows the booster pump used for the surface water

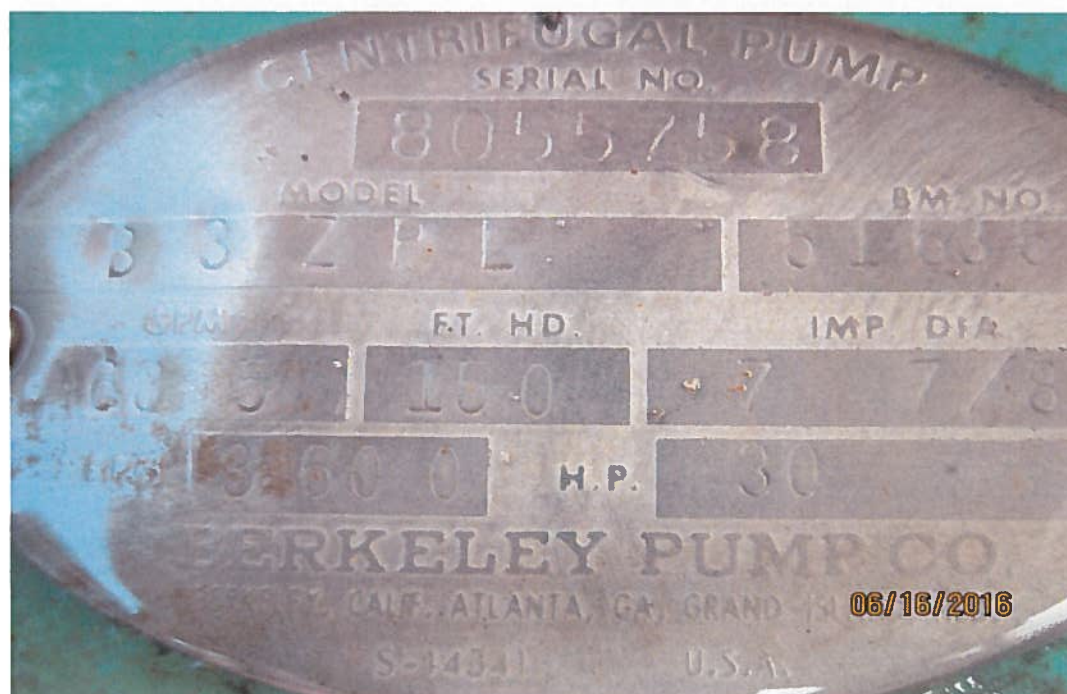
Water Right -63-11874

Photographer -Steven Visosky

Exam date - 6/16/2016



Booster pump near  
POD #2 used for  
the surface water.



Serial numbers  
from booster  
pump used for  
the surface  
water near POD  
#2.

Water Right -63-11874

Photographer -Steven Visosky

Exam date - 6/16/2016



Serial numbers  
from motor of  
booster pump at  
POD #2 for the  
surface water



A look north  
east of well  
(POD #3 ) and  
the booster  
pumps used  
for the surface  
water . This  
pump is no  
longer part of  
the system  
used to  
irrigate permit  
63-11874.

Water Right -63-11874

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POD #3  
(motor  
with  
vertical  
turbine) in  
background  
was tagged  
with tag  
A0019162.



A view east  
where the  
surface  
water from  
the New  
York Canal  
is either  
delivered  
into the  
pump  
station or  
passes  
through to  
POD #2  
booster  
pumps.

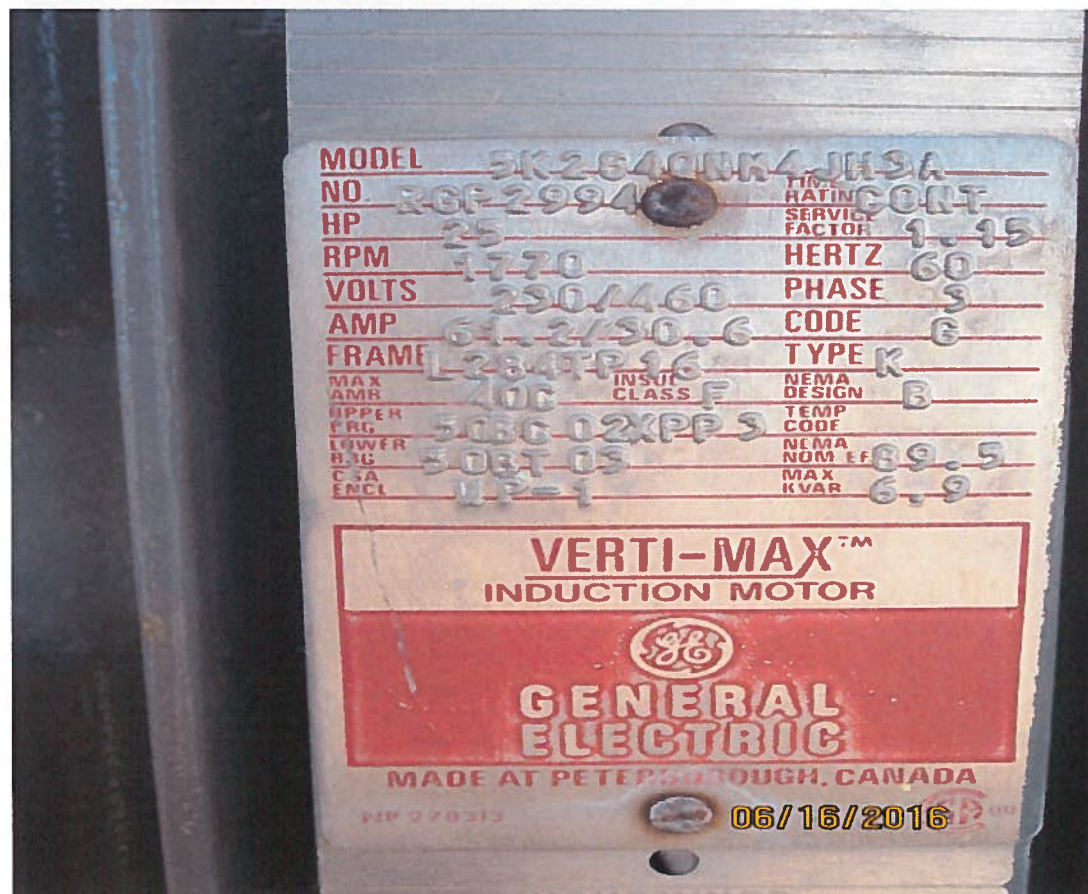
Water Right -63-11874

Photographer -Steven Visosky

Exam date - 6/16/2016



Serial numbers  
of booster pump  
#1 at POD #3  
(this POD will  
be removed)



Model of pump  
motor for  
vertical turbine  
pump no longer  
used in  
association  
with this permit

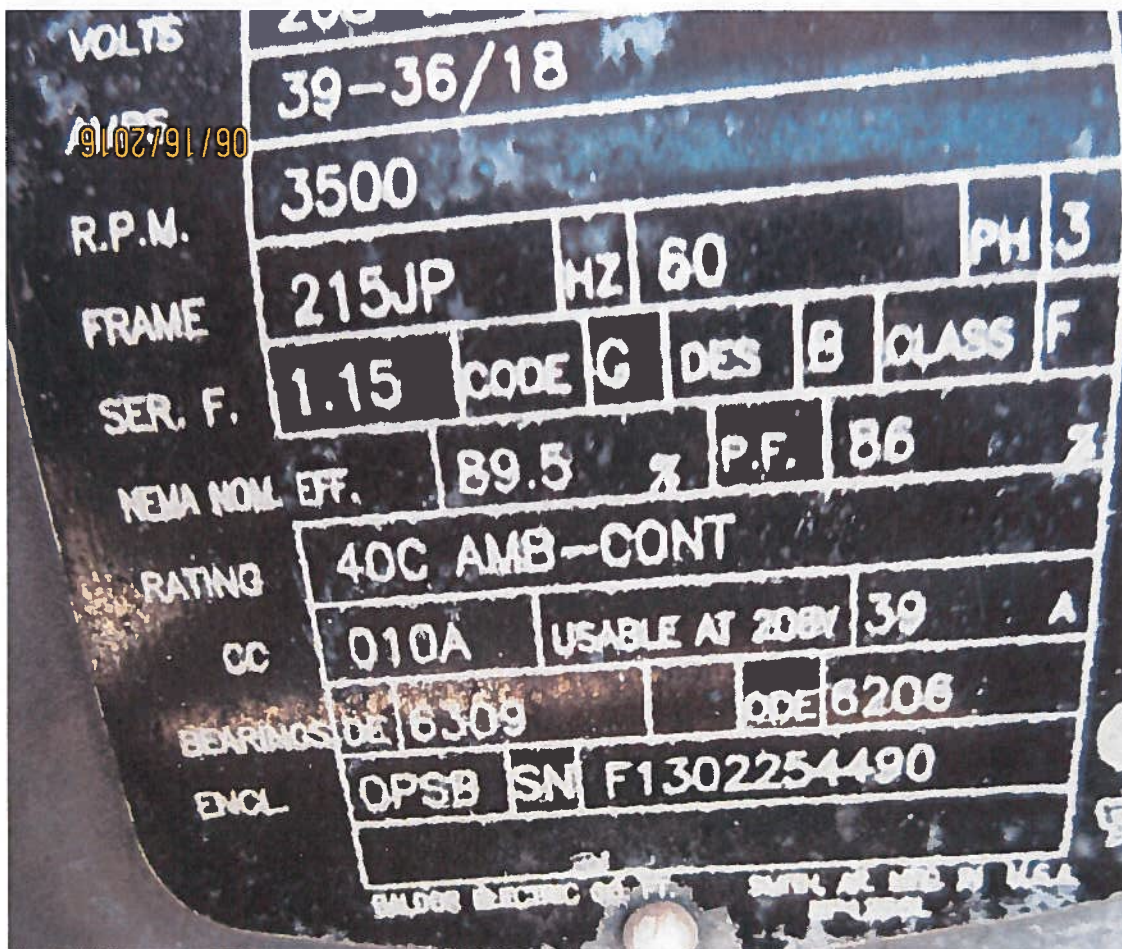
Water Right -63-11874

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Booster pump  
info for  
booster #2 at  
POD #3 (This  
is the POD  
that will be  
removed from  
the permit)

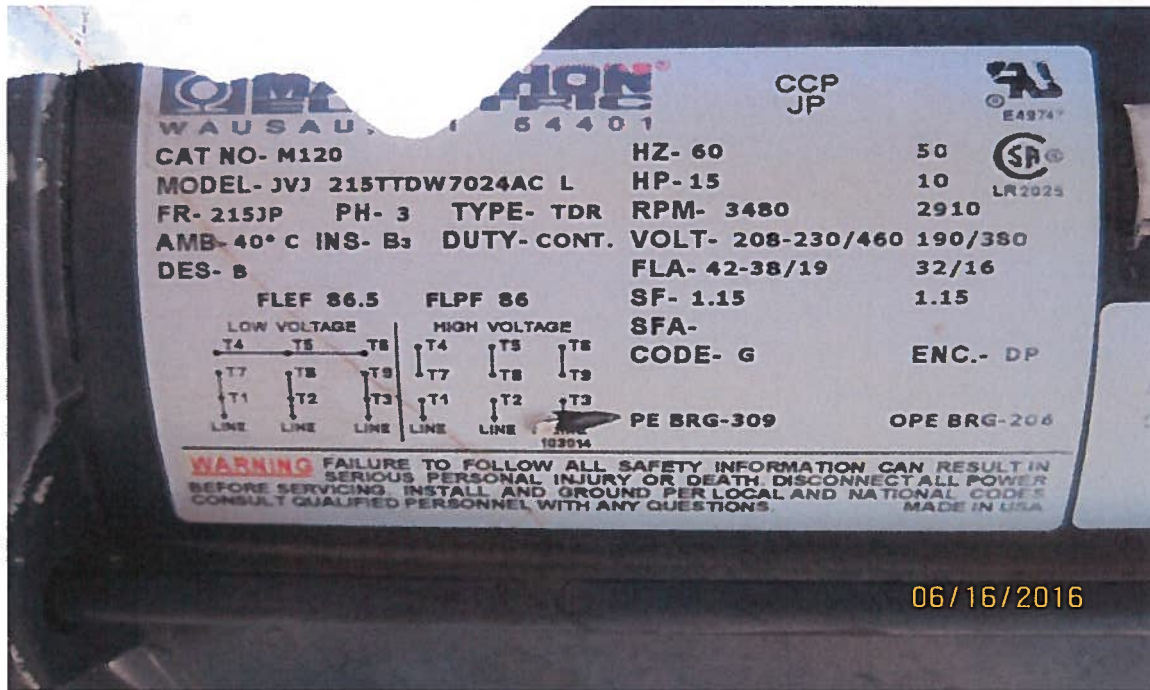


Pump motor of  
booster pump  
#2 at POD #3  
(this POD will  
be removed fro  
the permit)

Water Right -63-11874

Photographer -Steven Visosky

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Pump motor of booster #3 at POD #3 (this POD will be removed from the permit.



Pump info of booster pump #3 at POD #3 (this POD will be removed from the permit.