

**State of Idaho**  
**Department of Water Resources**  
**Water Right License**  
**Water Right No. 63-12503**

**Priority:** December 29, 1998

**Maximum Diversion Rate:** 1.76 CFS

**Maximum Diversion Volume:** 395 AF

It is hereby certified that:

ZACHARY H BEUTLER 13979 HOLLOW RD CALDWELL ID 83607-7527 AND  
 TRISHA BEUTLER 2605 W 2800 N MALAD CITY ID 83252

has complied with the terms and conditions of the permit, issued pursuant to Application for Permit dated December 29, 1998, and has submitted Proof of Beneficial Use on March 03, 2022. An examination confirms water is diverted from:

**Source :** GROUND WATER

|                              |                             |                                 |                             |
|------------------------------|-----------------------------|---------------------------------|-----------------------------|
| <b><u>Beneficial Use</u></b> | <b><u>Period of Use</u></b> | <b><u>Rate of Diversion</u></b> | <b><u>Annual Volume</u></b> |
| IRRIGATION                   | 03/01 to 11/15              | 1.76 CFS                        | 395 AF                      |

**Location of Point(s) of Diversion**

GROUND WATER NE¼ NW¼, Sec. 22, Twp 06N, Rge 03W, B.M. GEM County

**Place of Use:** IRRIGATION

| Twp | Rng | Sec | NE  |     |    |    | NW |    |    |    | SW |    |     |     | SE |    |      |      | Totals |
|-----|-----|-----|-----|-----|----|----|----|----|----|----|----|----|-----|-----|----|----|------|------|--------|
|     |     |     | NE  | NW  | SW | SE | NE | NW | SW | SE | NE | NW | SW  | SE  | NE | NW | SW   | SE   |        |
| 06N | 03W | 15  |     |     |    |    |    |    |    |    |    |    | 8.4 | 3.4 |    |    | 36.0 | 37.0 | 84.8   |
| 06N | 03W | 22  | 1.5 | 1.5 |    |    |    |    |    |    |    |    |     |     |    |    |      |      | 3.0    |

Total Acres: 87.8

**Conditions of Approval**

1. This right when combined with all other rights shall provide no more than 0.02 cfs per acre nor more than 4.5 afa per acre at the field headgate for irrigation of the place of use.
2. After specific notification by the Department, the right holder shall install a suitable measuring device or shall enter into an agreement with the Department to use power records to determine the amount of water diverted and shall annually report the information to the Department.
3. This right does not grant any right-of-way or easement across the land of another.
4. When ordered by the Director, the right holder shall provide mitigation acceptable to the Director to offset depletion of lower Snake River flows needed for migrating anadromous fish. The amount of water required for mitigation, which is to be released into the Snake River or a tributary for this purpose, will be determined by the Director based upon the reduction in flow caused by the use of water pursuant to this right. Any order of the Director issued in accordance with this paragraph shall be in conformance with applicable rules allowing the right holder due process as the need for mitigation and the amount of mitigation are determined.

**SCANNED**

AUG 25 2023

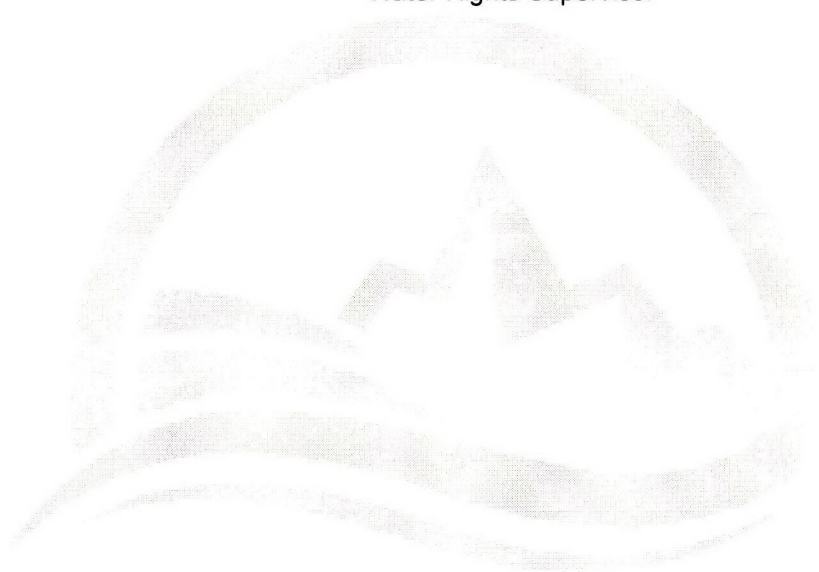
State of Idaho  
Department of Water Resources  
**Water Right License**  
Water Right No. 63-12503

This license is issued pursuant to the provisions of Idaho Code § 42-219. The water right confirmed by this license is subject to all prior water rights and shall be used in accordance with Idaho law and applicable rules of the Department of Water Resources.

Signed this 7<sup>th</sup> day of August, 20 23



SCOTT STORMS  
Water Rights Supervisor

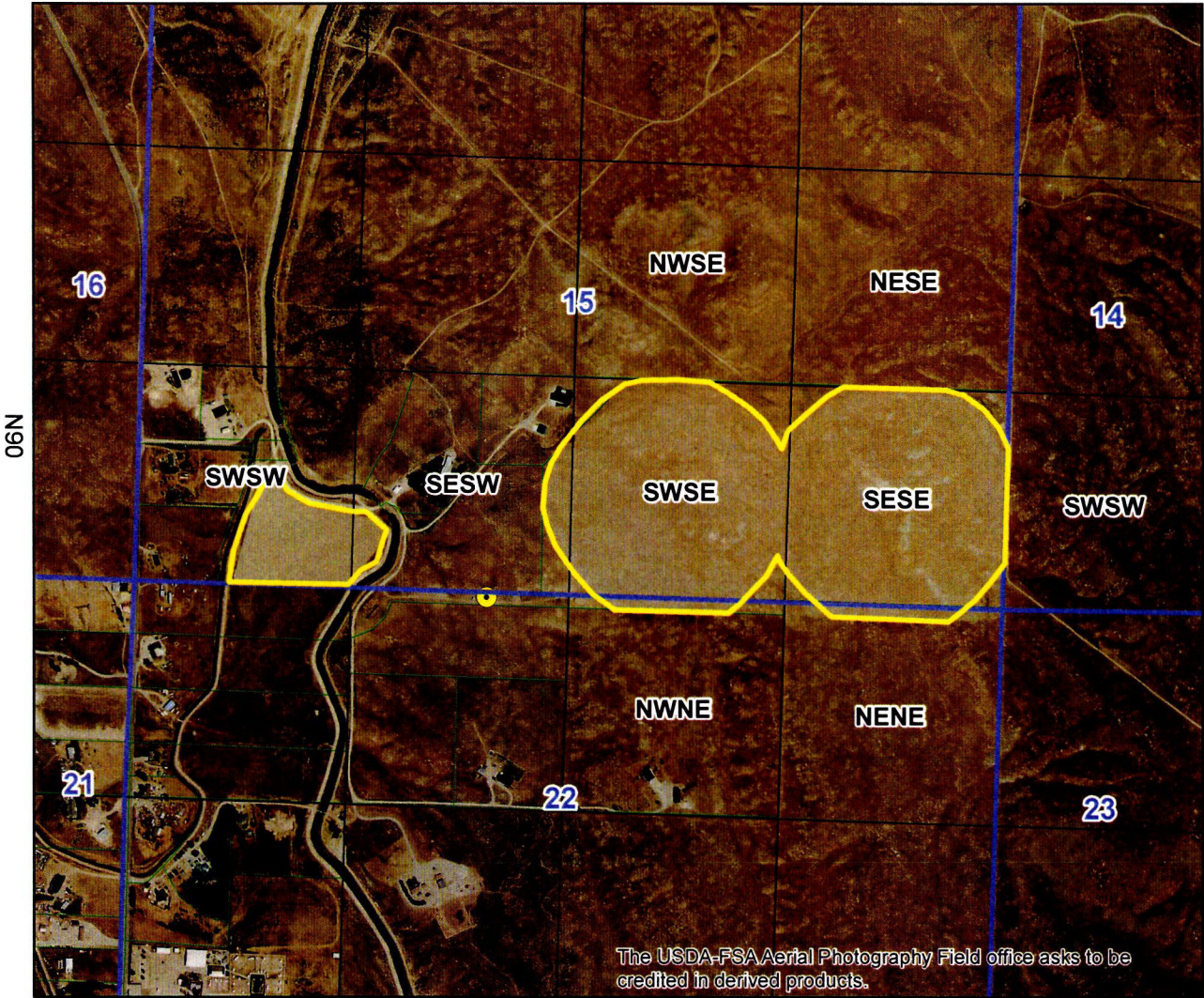


SCANNED  
AUG 25 2023

State of Idaho  
Department of Water Resources  
**Attachment to Water Right**  
63-12503

This map depicts the IRRIGATION place of use boundary for this water right at the time of this approval and is attached to the approval document solely for illustrative purposes.

03W



0 0.125 0.25 0.5 Miles

- Place Of Use Boundary
- Townships
- PLS Sections
- Quarter Quarters
- Point of Diversion
- Taxlots

SCANNED  
AUG 25 2023

**RECEIVED****JUL 20 2023****WATER RESOURCES  
WESTERN REGION**

**State of Idaho**  
**Department of Water Resources**  
**Application for Amendment**  
 (For Licensing Purposes)  
**Water Right No. 63-12503**

**Priority:** December 29, 1998**Maximum Diversion Rate:** 1.76 CFS**Maximum Diversion Volume:** 395.1 AF

The owner and holder of Permit to appropriate the Public Waters of the State of Idaho No. 63-12503

ZACHARY H BEUTLER 13979 HOLLOW RD CALDWELL ID 83607-7527 AND

TRISHA BEUTLER 2605 W 2800 N MALAD CITY ID 83252

requests the permit be changed as follows:

**Source :** GROUND WATER**Beneficial Use**

IRRIGATION

**Period of Use**

03/01 to 11/15

**Rate of Diversion**

1.76 CFS

**Annual Volume**

395.1 AF

**Location of Point(s) of Diversion**

GROUND WATER NE¼ NW¼, Sec. 22, Twp 06N, Rge 03W, B.M. GEM County

**Place of Use: IRRIGATION**

| Twp | Rng | Sec | NE  |     |    |    | NW |    |    |    | SW |    |     |     | SE |    |      |      | Totals |
|-----|-----|-----|-----|-----|----|----|----|----|----|----|----|----|-----|-----|----|----|------|------|--------|
|     |     |     | NE  | NW  | SW | SE | NE | NW | SW | SE | NE | NW | SW  | SE  | NE | NW | SW   | SE   |        |
| 06N | 03W | 15  |     |     |    |    |    |    |    |    |    |    | 8.4 | 3.4 |    |    | 36.0 | 37.0 | 84.8   |
| 06N | 03W | 22  | 1.5 | 1.5 |    |    |    |    |    |    |    |    |     |     |    |    |      |      | 3.0    |

Total Acres: 87.8

Permit holder asserts that no one will be injured by such change and that such change will be made at permit holder's own risk.

Signed this 15<sup>TH</sup> day of July, 20 23.

*John Beutler* *Trisha Beutler*  
 (Signature)

**SCANNED****AUG 25 2023**

State of Idaho  
Department of Water Resources  
**Application for Amendment**  
(For Licensing Purposes)  
**Water Right No. 63-12503**

FOR DEPARTMENT USE ONLY

Preliminary check by \_\_\_\_\_ Fee = \$100 Received by DM # W051410 Date 7-20-23

**ACTION OF THE DEPARTMENT OF WATER RESOURCES**

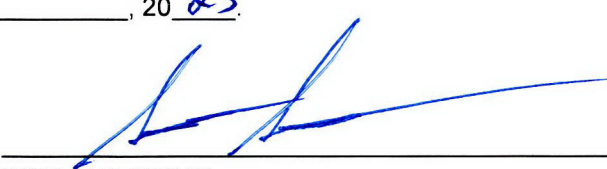
The Idaho Department of Water Resources hereby approves the above Application for Amendment for Permit No. 63-12503 with the following:

**Conditions of Approval**

1. Project construction shall commence within one year from the date of permit issuance and shall proceed diligently to completion unless it can be shown to the satisfaction of the Director of the Department of Water Resources that delays were due to circumstances over which the permit holder had no control.
2. Right holder shall comply with the drilling permit requirements of Section 42-235, Idaho Code and applicable Well Construction Rules of the Department.
3. After specific notification by the Department, the right holder shall install a suitable measuring device or shall enter into an agreement with the Department to use power records to determine the amount of water diverted and shall annually report the information to the Department.
4. This right does not grant any right-of-way or easement across the land of another.
5. The Director retains jurisdiction to require the right holder to provide purchased or leased natural flow or stored water to offset depletion of Lower Snake River flows if needed for salmon migration purposes. The amount of water required to be released into the Snake River or a tributary, if needed for this purpose, will be determined by the Director based upon the reduction in flow caused by the use of water pursuant to this permit.

This amendment is issued pursuant to the provisions of Idaho Code § 42-211.

Signed this 7<sup>th</sup> day of August, 2023.

  
\_\_\_\_\_  
SCOTT STORMS  
Water Rights Supervisor

SCANNED

AUG 25 2023



Western Region • 2735 W Airport Way • Boise, ID 83705-5082

Phone: 208-334-2190 • Fax: 208-334-2348 • Email: [westerninfo@idwr.idaho.gov](mailto:westerninfo@idwr.idaho.gov) • Web: [idwr.idaho.gov](http://idwr.idaho.gov)

Governor Brad Little

Director Gary Spackman

August 08, 2023

TRISHA BEUTLER  
2605 W 2800 N  
MALAD CITY ID 83252-6736

ZACHARY H BEUTLER  
13979 HOLLOW RD  
CALDWELL ID 83607-7527

RE: License No. 63-12503

### ISSUANCE OF LICENSE

Dear Water Right Holder(s):

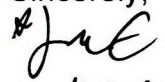
The Department of Water Resources ("Department") has issued the enclosed Water Right License confirming that a water right has been established in accordance with your permit. Please be sure to thoroughly review all the conditions of approval listed on your license. The conditions may include ongoing requirements, such as maintenance of a measuring device or implementation of mitigation, as well as information about how your water use may be administered, such as regulation by a watermaster in a water district.

The license is a PRELIMINARY ORDER issued by the Department pursuant to Rule 730 of the Department's Rules of Procedure (IDAPA 37.01.01.730). It can and will become a final order without further action by the Department unless a party petitions for reconsideration, files exceptions, or requests a hearing as described in the enclosed information sheet.

Also, please note that water right owners are required to report any change of water right ownership and/or mailing address to the Department within 120 days of the change. Water right forms are available from any office of the Department or on the Department's website at [idwr.idaho.gov](http://idwr.idaho.gov)

If you have any questions concerning the enclosed information, please contact me at (208) 605-4624.

Sincerely,

  
Lynne Evans

for Scott Storms  
Water Rights Supervisor

Enclosure(s)

SCANNED

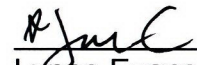
AUG 25 2023

## CERTIFICATE OF SERVICE

I hereby certify that on August 08, 2023, I served a true and correct copy of Water Right License No. 63-12503 by U.S. Mail, postage prepaid, to the following:

TRISHA BEUTLER  
2605 W 2800 N  
MALAD CITY ID 83252-6736

ZACHARY H BEUTLER  
13979 HOLLOW RD  
CALDWELL ID 83607-7527

  
\_\_\_\_\_  
Lynne Evans  
Administrative Assistant I

## **EXPLANATORY INFORMATION TO ACCOMPANY A PRELIMINARY ORDER**

(To be used in connection with actions when a hearing was **not** held)

(Required by Rule of Procedure 730.02)

The accompanying order or approved document is a "**Preliminary Order**" issued by the department pursuant to section 67-5243, Idaho Code. **It can and will become a final order without further action of the Department of Water Resources ("department") unless a party petitions for reconsideration, files an exception and brief, or requests a hearing as further described below:**

### **PETITION FOR RECONSIDERATION**

Any party may file a petition for reconsideration of a preliminary order with the department within fourteen (14) days of the service date of this order. **Note: the petition must be received by the department within this fourteen (14) day period.** The department will act on a petition for reconsideration within twenty-one (21) days of its receipt, or the petition will be considered denied by operation of law. See Section 67-5243(3) Idaho Code.

### **EXCEPTIONS AND BRIEFS**

Within fourteen (14) days after: (a) the service date of a preliminary order, (b) the service date of a denial of a petition for reconsideration from this preliminary order, or (c) the failure within twenty-one (21) days to grant or deny a petition for reconsideration from this preliminary order, any party may in writing support or take exceptions to any part of a preliminary order and may file briefs in support of the party's position on any issue in the proceeding with the Director. Otherwise, this preliminary order will become a final order of the agency.

### **REQUEST FOR HEARING**

Unless a right to a hearing before the Department or the Water Resource Board is otherwise provided by statute, any person aggrieved by any final decision, determination, order or action of the Director of the Department and who has not previously been afforded an opportunity for a hearing on the matter may request a hearing pursuant to section 42-1701A(3), Idaho Code. A written petition contesting the action of the Director and requesting a hearing shall be filed within fifteen (15) days after receipt of the denial or conditional approval.

### **ORAL ARGUMENT**

If the Director grants a petition to review the preliminary order, the Director shall allow all parties an opportunity to file briefs in support of or taking exceptions to the preliminary order and may schedule oral argument in the matter before issuing a final order. If oral arguments are to be heard, the Director will within a reasonable time period notify each party of the place, date and hour for the argument of the case. Unless the Director orders otherwise, all oral arguments will be heard in Boise, Idaho.

## **CERTIFICATE OF SERVICE**

All exceptions, briefs, requests for oral argument and any other matters filed with the Director in connection with the preliminary order shall be served on all other parties to the proceedings in accordance with IDAPA Rules 37.01.01302 and 37.01.01303 (Rules of Procedure 302 and 303).

## **FINAL ORDER**

The Director will issue a final order within fifty-six (56) days of receipt of the written briefs, oral argument or response to briefs, whichever is later, unless waived by the parties or for good cause shown. The Director may remand the matter for further evidentiary hearings if further factual development of the record is necessary before issuing a final order. The department will serve a copy of the final order on all parties of record.

Section 67-5246(5), Idaho Code, provides as follows:

Unless a different date is stated in a final order, the order is effective fourteen (14) days after its service date if a party has not filed a petition for reconsideration. If a party has filed a petition for reconsideration with the agency head, the final order becomes effective when:

- (a) The petition for reconsideration is disposed of; or
- (b) The petition is deemed denied because the agency head did not dispose of the petition within twenty-one (21) days.

## **APPEAL OF FINAL ORDER TO DISTRICT COURT**

Pursuant to sections 67-5270 and 67-5272, Idaho Code, if this preliminary order becomes final, any party aggrieved by the final order or orders previously issued in this case may appeal the final order and all previously issued orders in this case to district court by filing a petition in the district court of the county in which:

- i. A hearing was held,
- ii. The final agency action was taken,
- iii. The party seeking review of the order resides, or
- iv. The real property or personal property that was the subject of the agency action is located.

The appeal must be filed within twenty-eight (28) days of this preliminary order becoming final. See section 67-5273, Idaho Code. The filing of an appeal to district court does not itself stay the effectiveness or enforcement of the order under appeal.

SCANNED

AUG 25 2023

STATE OF IDAHO  
DEPARTMENT OF WATER RESOURCES  
BENEFICIAL USE FIELD REPORT

**A. GENERAL INFORMATION**

**Permit No:** 63-12503  
**Exam Date:** 07/11/2023

1. Current Owner:  
ZACHARY H BEUTLER 13979 HOLLOW RD CALDWELL ID 83607-7527 AND  
TRISHA BEUTLER 2605 W 2800 N MALAD CITY ID 83252
2. Accompanied by: Zach Beutler  
Phone No: 208-251-8839  
Address:  
Relationship to permit Holder:

**3. SOURCE:**  
GROUND WATER

**Method of Determination:** Site visit, aerial imagery

**B. OVERLAP REVIEW**

1. Other water rights with the same place of use: NO Overlap
2. Other water rights with the same point-of-diversion: NO Overlap

**C. DIVERSION AND DELIVERY SYSTEM**

1. **LOCATION OF POINT(S) OF DIVERSION:**  
GROUND WATER NE¼ NW¼, Sec. 22, Twp 06N, Rge 03W, B.M. GEM County

**Method of Determination:** Well 2020 - GPS at 43° 51' 1.99" N, 116° 41' 5.06" W

**PLACE OF USE: IRRIGATION**

| Twp | Rng | Sec | NE  |     |    |    | NW |    |    |    | SW |    |     |     | SE |    |      |      | Totals |
|-----|-----|-----|-----|-----|----|----|----|----|----|----|----|----|-----|-----|----|----|------|------|--------|
|     |     |     | NE  | NW  | SW | SE | NE | NW | SW | SE | NE | NW | SW  | SE  | NE | NW | SW   | SE   |        |
| 06N | 03W | 15  |     |     |    |    |    |    |    |    |    |    | 8.4 | 3.4 |    |    | 36.0 | 37.0 | 84.8   |
| 06N | 03W | 22  | 1.5 | 1.5 |    |    |    |    |    |    |    |    |     |     |    |    |      |      | 3.0    |

Total Acres: 87.8

**Method of Determination:** Field photos and aerial photography used to verify irrigation use site

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

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AUG 25 2023

4.

| Well or Diversion ID No.* | Motor Make | Hp  | Motor Serial No. | Pump Make                 | Pump Serial No. or Discharge Size |
|---------------------------|------------|-----|------------------|---------------------------|-----------------------------------|
| D0083371                  |            | 100 |                  | Grundfos – 1100S1000-3-AA |                                   |

**D. FLOW MEASUREMENTS**

1.

| Measurement Equipment | Type | Make | Model No. | Serial No. | Size | Calib. Date |
|-----------------------|------|------|-----------|------------|------|-------------|
| N/A                   | N/A  | N/A  | N/A       | N/A        | N/A  | N/A         |

2. Measurements: The buried pipes and conveyance system did not provide suitable circumstances to directly measure the diversion rate.

**E. FLOW CALCULATIONS**  X   Additional Computation Sheets Attached

Measured Method: Motor specification information was collected during the field exam and used to estimate flow. Using the theoretical horsepower equation worksheet and friction head loss calculator, the maximum pump performance at approximately 168' total head and combined 100 hp yields 1020 gpm (2.73 cfs) capacity.

Theoretical Irrigation Use = 2.73 cfs

Permitted Total Rate        3.20 cfs

License Recommendation    1.76 cfs

**F. VOLUME CALCULATIONS**

1. Volume Calculations for irrigation:

$$V_{IR} = (\text{Acres Irrigated}) \times (\text{Irrigation Requirement}) = 87.8 \text{ acres} \times 4.5 \text{ AFA} = 395.1 \text{ AF}$$

$$V_{DR} = [\text{Diversion Rate (cfs)}] \times (\text{Days in Irrigation season}) \times 1.9835 = 1.76 \text{ cfs} \times 260 \text{ days} \times 1.9835 = 907.65 \text{ AF}$$

$$V = \text{Smaller of } V_{IR} \text{ and } V_{DR} = \underline{395.1 \text{ AF}}$$

**G. NARRATIVE/REMARKS/COMMENTS**

A field exam was conducted on 07/11/23 by Senior Water Right Agent Laura McSherry and was accompanied by Mr. Zachary Beutler. Zachary Beutler is the current owner. The permit was approved on October 10, 2008, and proof of beneficial use was submitted on March 03, 2022.

The point of diversion (POD) location was confirmed at ground water well head in the NENW QQ and is accurately described by the permit. The other 2 wells proposed in the permit were not developed. The developed well uses an underground 100 hp motor and Grundfos stainless steel pump to divert water underground, using 10" pvc piping, to a pivot and handline irrigation system. Water right overlap did not discover any other water rights associated with the ground water POD. No amendment required to correct the legal description.

SCANNED

AUG 25 2023

The permit authorizes 3.20 cfs for irrigation use within SWSE and SESE of Sec 15, T06N, R03W and NWNE and NENW of Sec 22, T06N, R03W. Irrigation was underdeveloped and 87.8 irrigated acres were verified within SWSE, SESE, SWSW, and SESW of Sec 15, T06N, R03W and NWNE and NENE of Sec 22, T06N, R03W. ArcMap tools and aerial imagery, supported by photos taken during the field exam, were used to verify the POU area. Although the permit authorized 160 total acres, the license recommendation for the POU is 87.8 acres. An amendment is required to correct the legal description of the POU.

Pump and motor information was provided by the applicant. Using the theoretical horsepower equation worksheet and friction head loss calculator, the maximum pump performance at approximately 168' total head and combined 100 hp yields 1020 gpm (2.73 cfs) capacity which exceeds the recommended license flow rate. The recommended licensed flow rate for irrigation use is 1.76 cfs and the recommended volume for irrigation use is 395.1 AF.

Condition 103 replaced condition 121 per department standards. Condition 26A was removed. Condition 046 was removed due to well drilling completion. Condition R65 was added to limit irrigation rate and volume. Conditions 01M and condition 004 were carried forward to the license.

Have conditions of permit approval been met? ☒ Yes ☐ No

#### H. RECOMMENDATIONS

##### 1. Recommended Amounts

| <u>Beneficial Use</u> | <u>Period of Use</u> | <u>Rate of Diversion</u> | <u>Annual Volume</u> |
|-----------------------|----------------------|--------------------------|----------------------|
| IRRIGATION            | 03/01 to 11/15       | 1.76 CFS                 | 395.1 AF             |
| <u>Totals:</u>        |                      | 1.76 CFS                 | 395.1 AF             |

##### 2. Recommended Amendments

☐ Change P.D. as reflected above ☐ Add P.D. as reflected above ☐ None  
☒ Change P.U. as reflected above ☐ Add P.U. as reflected above ☐ None

#### I. AUTHENTICATION

Laura McSherry – Water Resource Agent, Sr.

Field Examiner's Name [Signature] Date 08.02.23

Reviewer [Signature] Date 8/7/2023

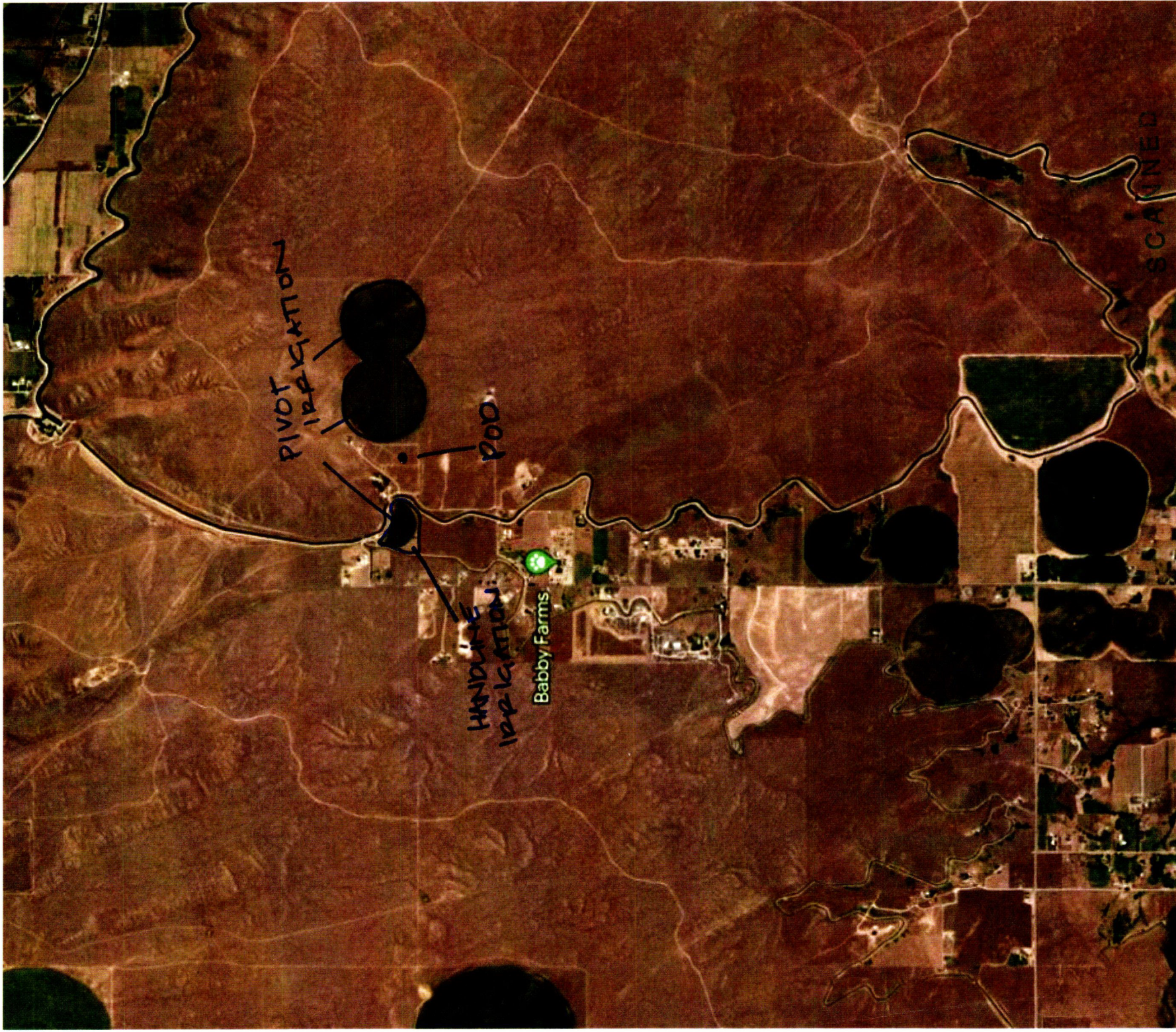
SCANNED

AUG 25 2023

## DELIVERY SYSTEM DIAGRAM

Water Right No. 63-12503





AUG 25 2023

# THEORETICAL HORSEPOWER EQUATION WORKSHEET

Water Right No.: 63-12503

Examiner: Laura M

Date of Field Exam: 7/11/2023

Irrigation Use

|                    | OPTION 1 | OPTION 2 | OPTION 3 |
|--------------------|----------|----------|----------|
| P/D No.:           |          |          |          |
| PUMP HORSEPOWER    | 100      | 100      | 100      |
| BOOSTER HORSEPOWER | 0        | 0        | 0        |
| PUMPING LEVEL      | 168      | 168      | 168      |
| DISCHARGE PRESSURE | 20       | 25       | 30       |
| FRICTION           | 0.21     | 0.21     | 0.21     |
| RATE OF FLOW (cfs) | 2.87     | 2.73     | 2.59     |
| (gpm)              | 1289.5   | 1223.6   | 1164.1   |

AVE  
2.73

The above calculates the formula =

$$Q = \frac{8.8 * (\text{Efficiency}) * \text{hp}}{\text{depth to water} + 2.31 * (\text{psi}) + \text{friction}}$$

Assumptions: %70 efficiency

**Examiners Notes: Standard practice includes large irrigation systems using 20-30 psi, or average 25 psi.**

SCANNED

AUG 25 2023

## Friction Head Loss Calculator Hazen-Williams Method

[Read Me](#)

$$h_f = \frac{10.44(L)(Q)^{1.85}}{(C)^{1.85} d^{4.8655}}$$

### Required Input

L = 168 feet (length of pipe)  
Q = 1100 gpm (flow rate)  
d = 16 inches (inside diameter of pipe)

### Select Pipe Material Type

steel, welded and seamless

C = 100 unitless (Hazen-Williams Roughness Coeff.)

### Output

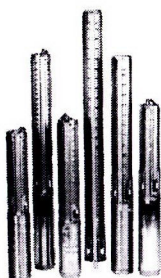
$h_f = 0.21$  feet (frictional head loss)  
or  
 $h_f = 0.09$  psi (frictional head loss)

SCANNED  
AUG 25 2023



## Submittal Data

|                 |       |                  |       |           |       |
|-----------------|-------|------------------|-------|-----------|-------|
| PROJECT:        | _____ | UNIT TAG:        | _____ | QUANTITY: | _____ |
| REPRESENTATIVE: | _____ | TYPE OF SERVICE: | _____ | DATE:     | _____ |
| ENGINEER:       | _____ | SUBMITTED BY:    | _____ | DATE:     | _____ |
| CONTRACTOR:     | _____ | APPROVED BY:     | _____ | DATE:     | _____ |
|                 | _____ | ORDER NO.:       | _____ | DATE:     | _____ |

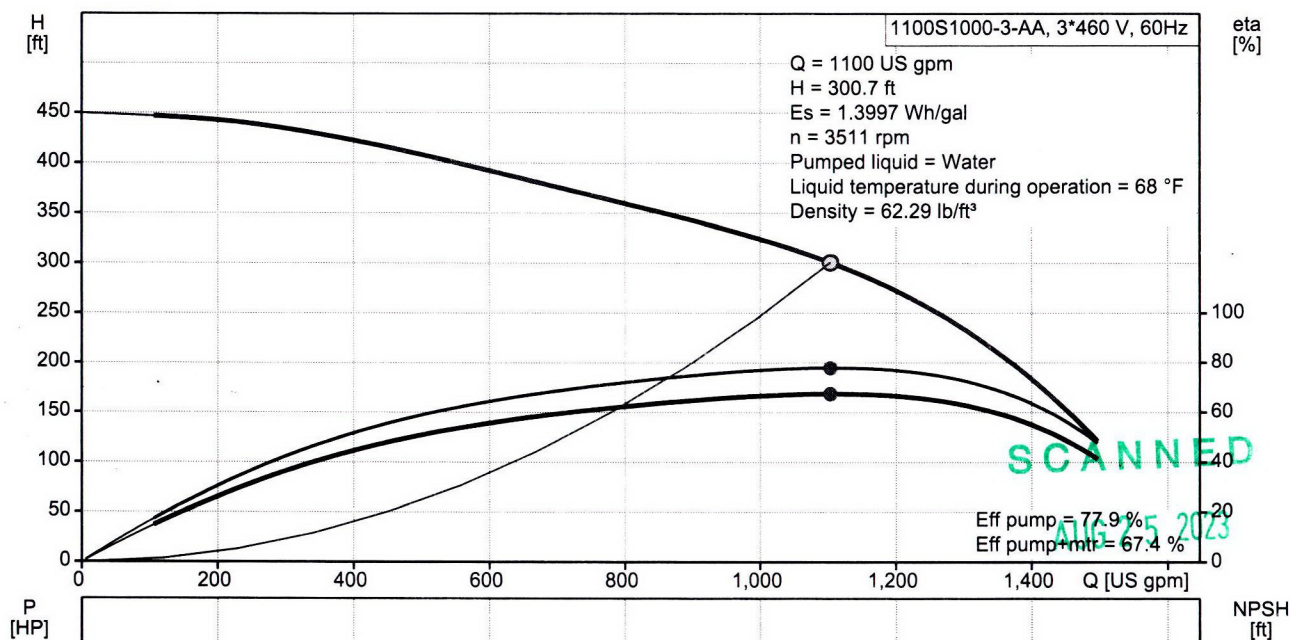


### 1100S1000-3-AA

Submersible pumps in stainless steel. EN 1.4301 (AISI 304). EN 1.4401 (AISI 316). EN 1.4539 (AISI 904L). Typical application: Ground water, Irrigation, Mining, Fountain, Off-shore etc.

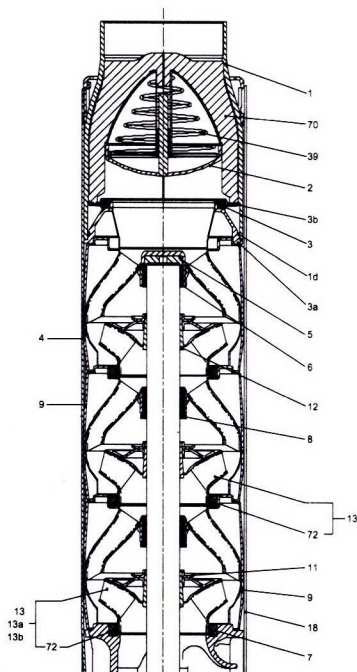
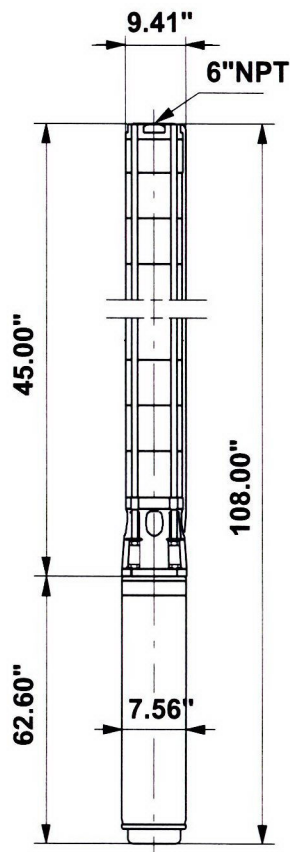
Product photo could vary from the actual product

| Conditions of Service                                                                                                                                                      | Pump Data                | Motor Data                                                                                                                |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------|---------------------------------------------------------------------------------------------------------------------------|
| Flow: 1100 US gpm<br>Head: 300.7 ft<br>Efficiency: 67.4 %<br>Liquid: Water<br>Temperature: 68 °F<br>NPSH required: 44.74 ft<br>Viscosity: _____<br>Specific Gravity: 1.000 | Product number: 18BG96B3 | Rated power - P2: 100 HP<br>Rated voltage: 460 V<br>Main frequency: 60 Hz<br>Enclosure class: IP68<br>Motor type: MMS8000 |





## Submittal Data



### Materials:

Pump: Stainless steel  
EN 1.4301  
AISI 304

Impeller: Stainless steel  
EN 1.4301  
AISI 304

Motor: Cast iron  
DIN W.-Nr. 0.6025  
ASTM 35-40

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AUG 25 2023



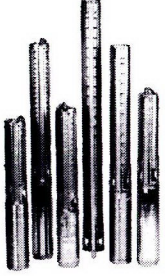
Company name:

Created by:

Phone:

Date:

5/21/2019

| Count | Description                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
|-------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 1     | <p><b>1100S1000-3-AA</b></p>  <p>Product photo could vary from the actual product</p> <p>Product No.: 18BG96B3<br/>Multi-stage submersible pump for raw water supply, groundwater lowering and pressure boosting. The pump is suitable for pumping clean, thin, non-aggressive liquids without solid particles or fibers.</p> <p>The pump is made entirely of Stainless steel DIN W.-Nr. EN 1.4301 and suitable for horizontal and vertical installation.<br/>The pump is fitted with a built-in non-return valve.</p> <p>The motor is a 3-phase motor of the canned type with a sand shield, liquid-lubricated bearings and pressure-equalizing diaphragm.</p> <p><b>Liquid:</b><br/>Pumped liquid: Water<br/>Maximum liquid temperature: 104 °F<br/>Max liquid temperature at 0.15 m/sec: 104 °F<br/>Max liquid t at 0.5 m/sec: 113 °F<br/>Selected liquid temperature: 68 °F<br/>Density: 62.29 lb/ft<sup>3</sup></p> <p><b>Technical:</b><br/>Pump speed on which pump data is based: 3450 rpm<br/>Actual calculated flow: 1100 US gpm<br/>Resulting head of the pump: 300.7 ft<br/>Shaft seal for motor: SIC/SIC<br/>Curve tolerance: ISO9906:2012 3B<br/>Motor version: T45</p> <p><b>Materials:</b><br/>Pump: Stainless steel<br/>EN 1.4301<br/>AISI 304<br/>Impeller: Stainless steel<br/>EN 1.4301<br/>AISI 304<br/>Motor: Cast iron</p> |

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| Count | Description                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
|-------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|       | <p>Motor type: MMS8000</p> <p>Rated power - P2: 100 HP</p> <p>Main frequency: 60 Hz</p> <p>Rated voltage: 3 x 460 V</p> <p>Service factor: 1.15</p> <p>Rated current: 150 A</p> <p>Starting current: 570 %</p> <p>Cos phi - power factor: 0.88</p> <p>Rated speed: 3500 rpm</p> <p>Start. method: direct-on-line</p> <p>Enclosure class (IEC 34-5): IP68</p> <p>Built-in temperature transmitter: No</p> <p>Motor Number: 96023208</p> <p>Windings: PE2/PA</p> <p><b>Others:</b></p> <p>ErP status: EuP Standalone/Prod.</p> <p>Net weight: 660 lb</p> <p>Gross weight: 795 lb</p> <p>Shipping volume: 15.3 ft<sup>3</sup></p> <p>Country of origin: US</p> <p>Custom tariff no.: 8413.70.2004</p> |



Company name:

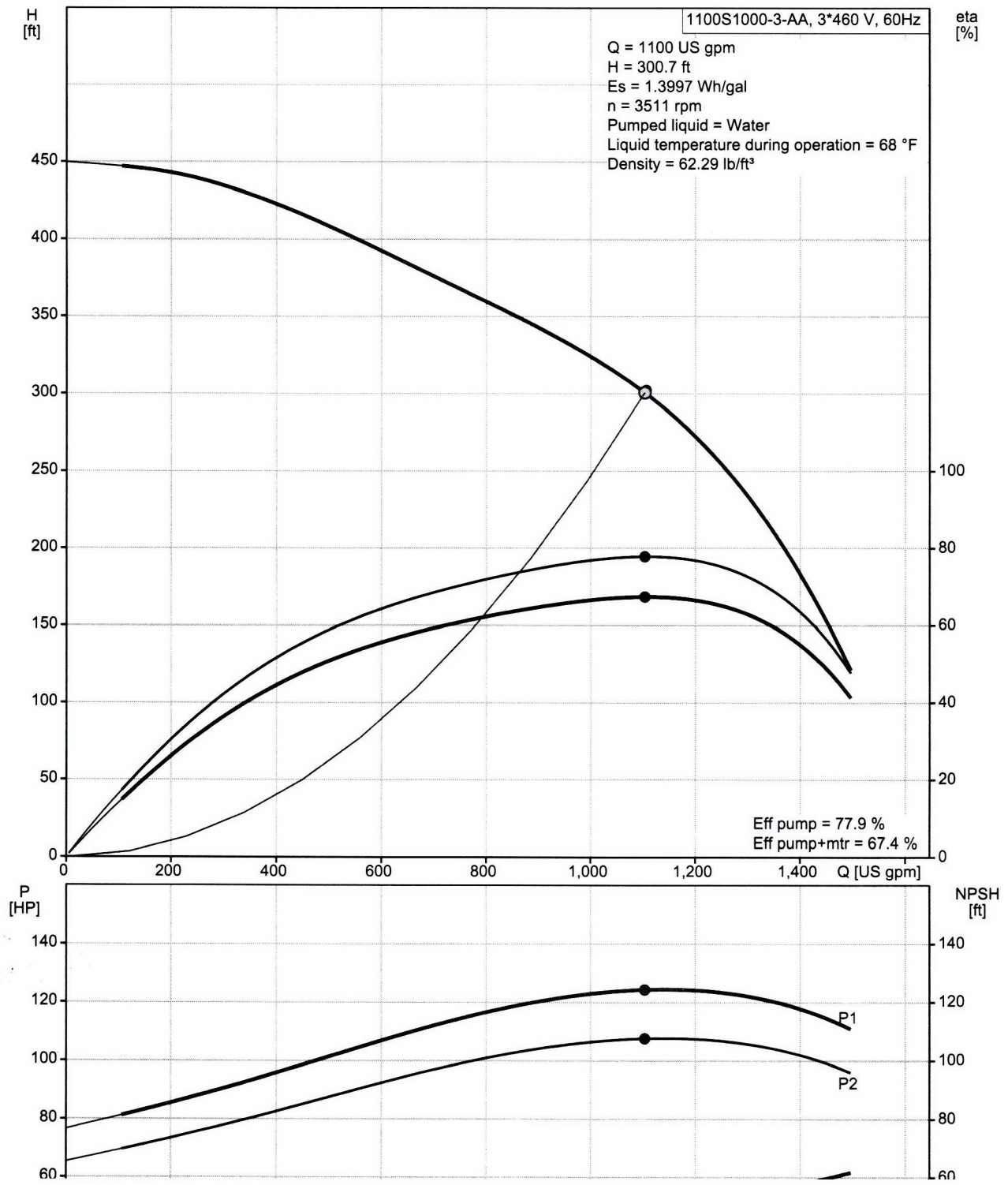
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## 18BG96B3 1100S1000-3-AA 60 Hz





Company name:

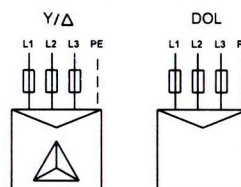
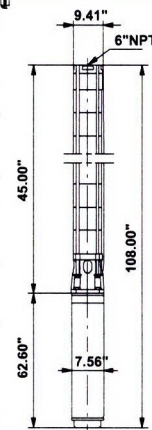
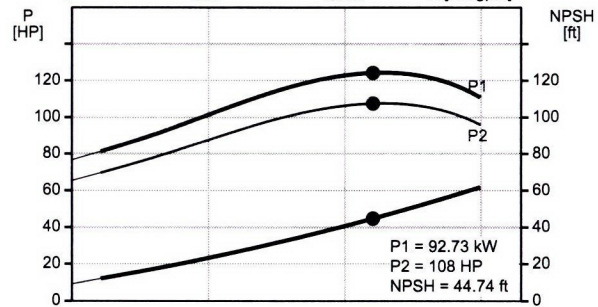
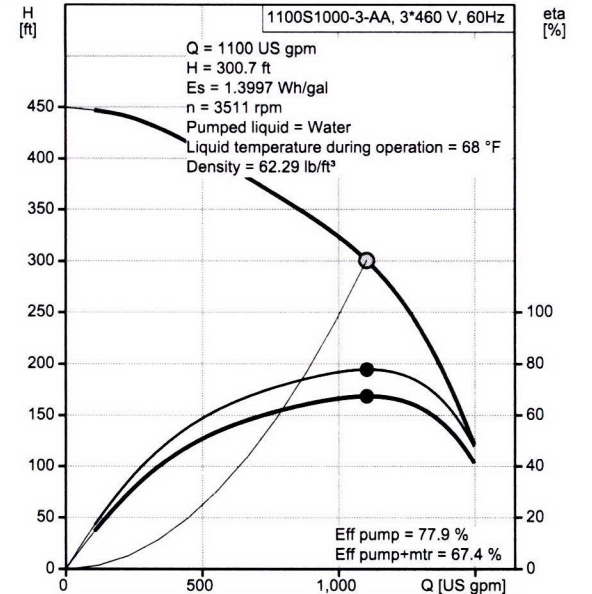
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5/21/2019

| Description                             | Value             |
|-----------------------------------------|-------------------|
| <b>General information:</b>             |                   |
| Product name:                           | 1100S1000-3-AA    |
| Product No.:                            | 18BG96B3          |
| EAN:                                    | 5700394843393     |
| <b>Technical:</b>                       |                   |
| Pump speed on which pump data is based: | 3450 rpm          |
| Actual calculated flow:                 | 1100 US gpm       |
| Resulting head of the pump:             | 300.7 ft          |
| Stages:                                 | 3                 |
| Impeller reduc.:                        | AA                |
| Shaft seal for motor:                   | SIC/SIC           |
| Curve tolerance:                        | ISO9906:2012 3B   |
| Model:                                  | C                 |
| Valve:                                  | YES               |
| Motor version:                          | T45               |
| <b>Materials:</b>                       |                   |
| Pump:                                   | Stainless steel   |
|                                         | EN 1.4301         |
|                                         | AISI 304          |
| Impeller:                               | Stainless steel   |
|                                         | EN 1.4301         |
|                                         | AISI 304          |
| Motor:                                  | Cast iron         |
|                                         | DIN W.-Nr. 0.6025 |
|                                         | ASTM 35-40        |
| <b>Installation:</b>                    |                   |
| Pump outlet:                            | 6"NPT             |
| Motor diameter:                         | 8 inch            |
| <b>Liquid:</b>                          |                   |
| Pumped liquid:                          | Water             |
| Maximum liquid temperature:             | 104 °F            |
| Max liquid temperature at 0.15 m/sec:   | 104 °F            |
| Max liquid t at 0.5 m/sec:              | 113 °F            |
| Selected liquid temperature:            | 68 °F             |
| Density:                                | 62.29 lb/ft³      |
| <b>Electrical data:</b>                 |                   |
| Motor type:                             | MMS8000           |
| Applic. motor:                          | GRUNDFOS          |
| Rated power - P2:                       | 100 HP            |
| KVA code:                               | J                 |
| Main frequency:                         | 60 Hz             |
| Rated voltage:                          | 3 x 460 V         |
| Service factor:                         | 1.15              |
| Rated current:                          | 150 A             |
| Starting current:                       | 570 %             |
| Cos phi - power factor:                 | 0.88              |
| Rated speed:                            | 3500 rpm          |
| Axial load max:                         | 11000 lb          |
| Start. method:                          | direct-on-line    |
| Enclosure class (IEC 34-5):             | IP68              |





Company name:

Created by:

Phone:

Date:

5/21/2019

| Description        | Value                |
|--------------------|----------------------|
| Shipping volume:   | 15.3 ft <sup>3</sup> |
| Sales region:      | Namreg               |
| Country of origin: | US                   |
| Custom tariff no.: | 8413.70.2004         |



Company name:

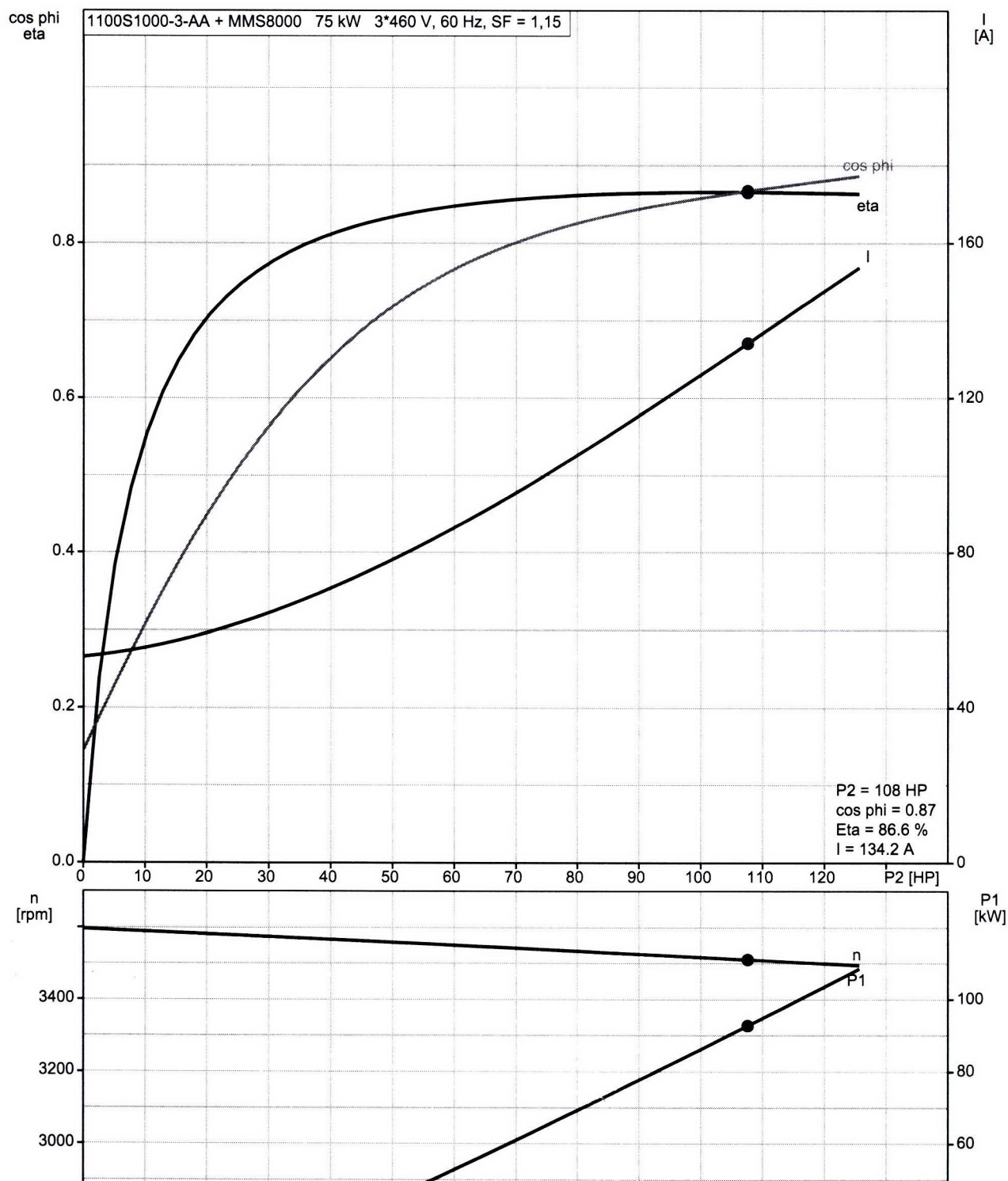
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## 18BG96B3 1100S1000-3-AA 60 Hz





Company name:

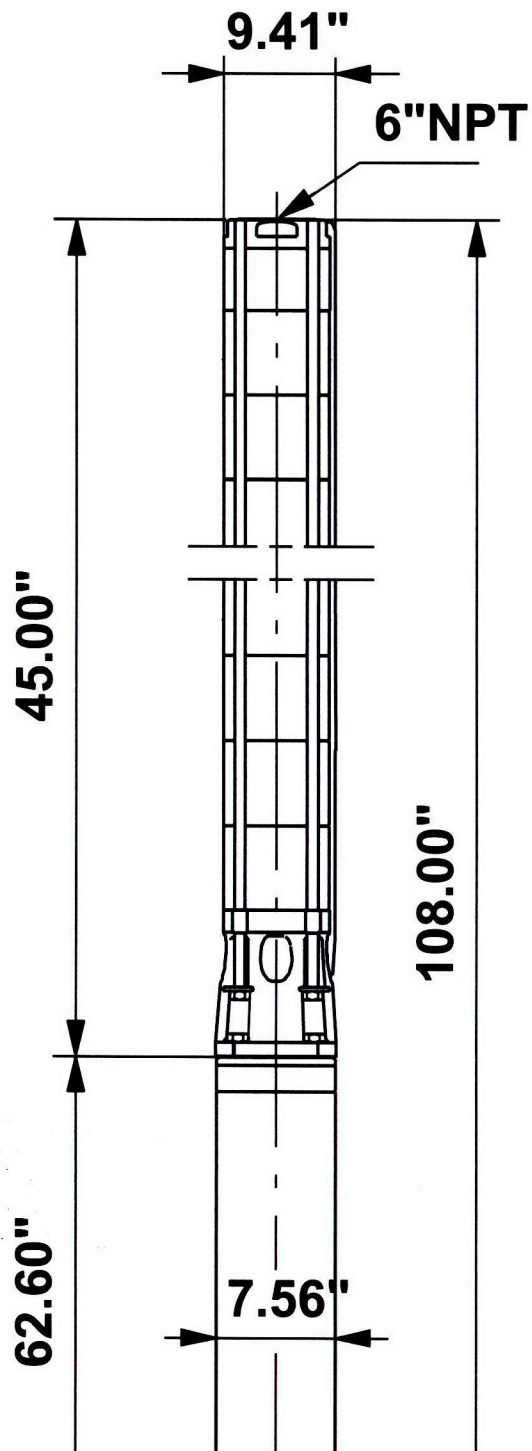
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5/21/2019

18BG96B3 1100S1000-3-AA 60 Hz





Company name:

Created by:

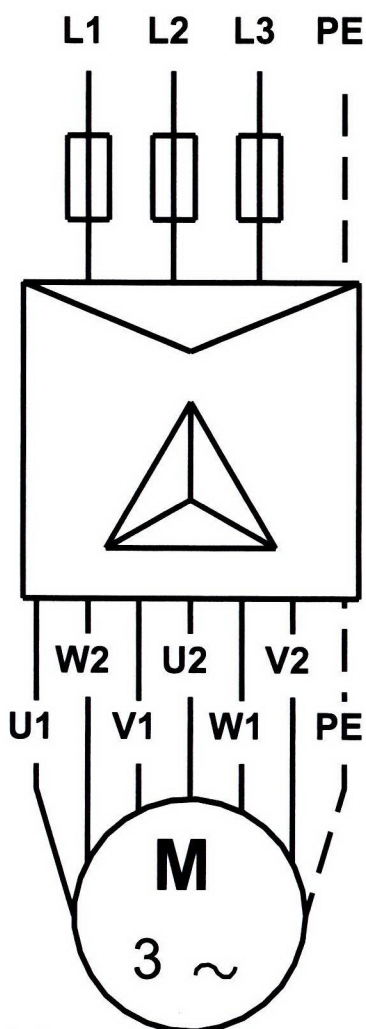
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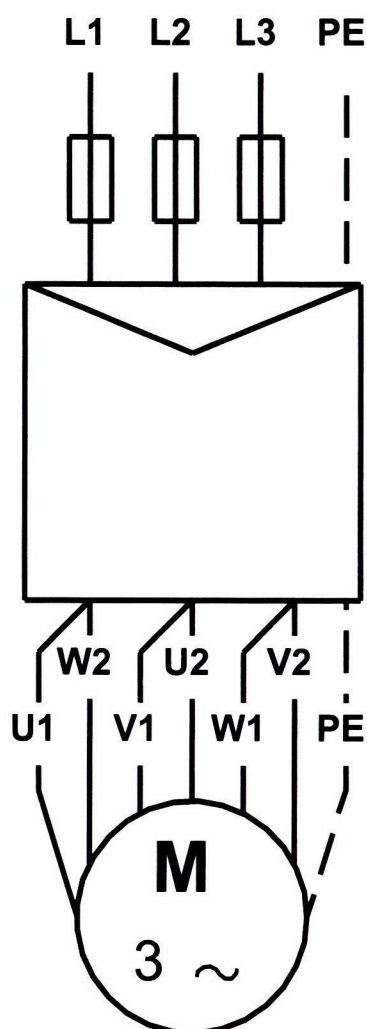
5/21/2019

18BG96B3 1100S1000-3-AA 60 Hz

Y/ $\Delta$



DOL



|        |       |
|--------|-------|
| U1, W2 | Brown |
| V1, U2 | Black |