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MAY 11 2018

DEPT OF WATER RESOURCES

STATE OF IDAHO  
DEPARTMENT OF WATER RESOURCES  
BENEFICIAL USE FIELD REPORT

RECEIVED

MAY 10 2018

DEPT OF WATER RESOURCES  
SOUTHERN REGION

A Beneficial Use Field Report is prepared by a water right examiner as the result of an examination to clearly confirm and establish the extent of the beneficial use of water established in connection with a permit during the development period authorized by the permit and any extensions of time previously approved.

## A. GENERAL INFORMATION

Permit No. 01-106331. Owner A & B Irrigation DistrictPhone No. 208-436-3152Current address PO Box 675, Rupert, ID 83350-06752. Examiner's name David ShawEXAM DATE April 19, 20183. Accompanied by Dan TempleEmail dtemple@abirrigation.orgAddress PO Box 675, Rupert, ID 83350-0675Relationship to permit holder ManagerPhone No. 208-436-31524. Source Snake Rivertributary to Columbia River

## B. OVERLAP REVIEW

1. Other water rights with the same place of use See Remarks2. Other water rights with the same source and point of diversion See Remarks

## C. DIVERSION AND DELIVERY SYSTEM

## 1. Point(s) of Diversion:

| Ident. No. | Gov't Lot | ¼ | ¼  | ¼  | Sec | Twp | Rge | County   | Method of Determination/Remarks |
|------------|-----------|---|----|----|-----|-----|-----|----------|---------------------------------|
| QP2        |           |   | NE | NW | 20  | 10S | 22E | Minidoka | Lee Placer Claim, MS 1286       |
|            |           |   |    |    |     |     |     |          |                                 |
|            |           |   |    |    |     |     |     |          |                                 |
|            |           |   |    |    |     |     |     |          |                                 |

## 2. Place(s) of Use:

Method of determination PLSS & Aerial Photography w/ Shape File from A&B I.D.

| Twp | Rge | Sec | NE |    |    |    | NW |    |    |    | SW |    |    |    | SE |    |    |    | Totals |
|-----|-----|-----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|--------|
|     |     |     | NE | NW | SW | SE | NE | NW | SW | SE | NE | NW | SW | SE | NE | NW | SW | SE |        |
|     |     |     |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |        |
|     |     |     |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |        |
|     |     |     |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |        |
|     |     |     |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |        |
|     |     |     |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |        |
|     |     |     |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |        |
|     |     |     |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |        |
|     |     |     |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |        |
|     |     |     |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |        |

3. **Delivery System Diagram:** Indicate all major components and distances between components. Indicate weir size/ditch size/pipe diameter (inside), as applicable. Use the space provided or ☒ see attached.

Scale: 1" = \_\_\_\_\_

- ☒ Copy of USGS Quadrangle attached showing location(s) of point(s) of diversion and place(s) of use (**required**)  
☒ Aerial photo attached (required for irrigation of 10+ acres)  
☒ Photo of diversion and system attached

4.

| Well or Diversion Identification No.* | Motor Make        | Hp  | Motor Serial No. | Pump Make | Pump Serial No. or Discharge Size |
|---------------------------------------|-------------------|-----|------------------|-----------|-----------------------------------|
| See attached plans                    | Sheet S5, pg 55   |     |                  |           |                                   |
| See also order attached               | for 8 motors & pu | mps |                  |           |                                   |
|                                       |                   |     |                  |           |                                   |

\*Code to correspond with no. on map and aerial photo

#### D. FLOW MEASUREMENTS

1.

| Measurement Equipment             | Type | Make | Model No. | Serial No. | Size | Calib. Date |
|-----------------------------------|------|------|-----------|------------|------|-------------|
| See attached plans, Sheet S6 & G7 |      |      |           |            |      |             |
| pgs 56 & 274                      |      |      |           |            |      |             |

2. **Measurements:** \_\_\_\_\_

Hydraulic design criteria, Sheet S12, pg 62. Discharge measurements from Hydromet 2017 records show actual diversion of 81.35 cfs for this pumping station on 6-29-2017, less than the design capacity but more than the 29.57 cfs for this permit.

**E. NARRATIVE/REMARKS/COMMENTS**

Water rights with the same POU: 36-2080, 36-15127A, 36-15127B, 36-15192, 36-15193A, 36-15193B, 36-15194A, 36-15194B, 36-15195A, 36-15195B, 36-15196A and 36-15196B.

Water rights with the same POD: 1-14, 1-2060, 1-10225, 1-10237, 1-10238, 1-10239, 1-10240, and 1-10241

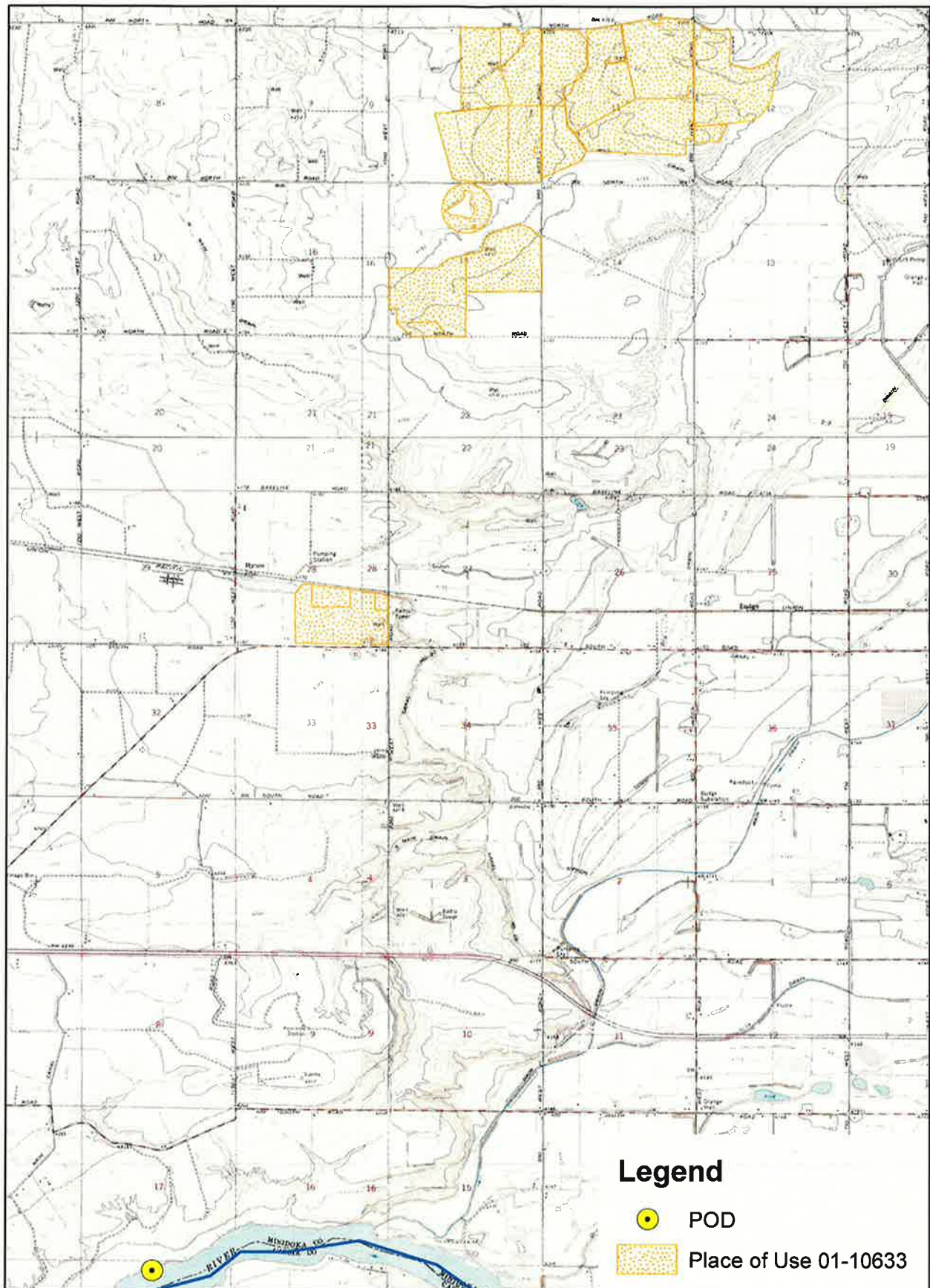
This right is diverted through a second pumping plant for A&B Irrigation District that serves soft conversion lands previously irrigated with ground water as well as other lands within the district. The complete design documents are included on a thumb drive submitted with this Field Report along with the shape file required by Condition 10.

A&B Irrigation District has 269.23 cfs of surface water rights under existing water rights, see Condition 6 on Water Right 1-10241. On June 29, 2017 the WD01 records show the combined diversion from the 2 pumping plants was 304 cfs which matched the combined diversion rate of 303.79 cfs from the Hydromet data for the 2 pumping stations. The WD01 records also show 5 cfs of storage water was included in the 304 cfs diversion leaving 299 cfs of natural flow diversion from the Snake River. With 299 cfs of natural flow minus 269.23 cfs that could have been diverted under existing water rights leaves more than 29.57 cfs of natural flow available for diversion under permit 01-10633.

Has the permit holder met all conditions of permit approval, including any mitigation requirements and/or measuring device installation requirements? ☒ Yes ☐ No If no, what must be done to meet the permit requirements?



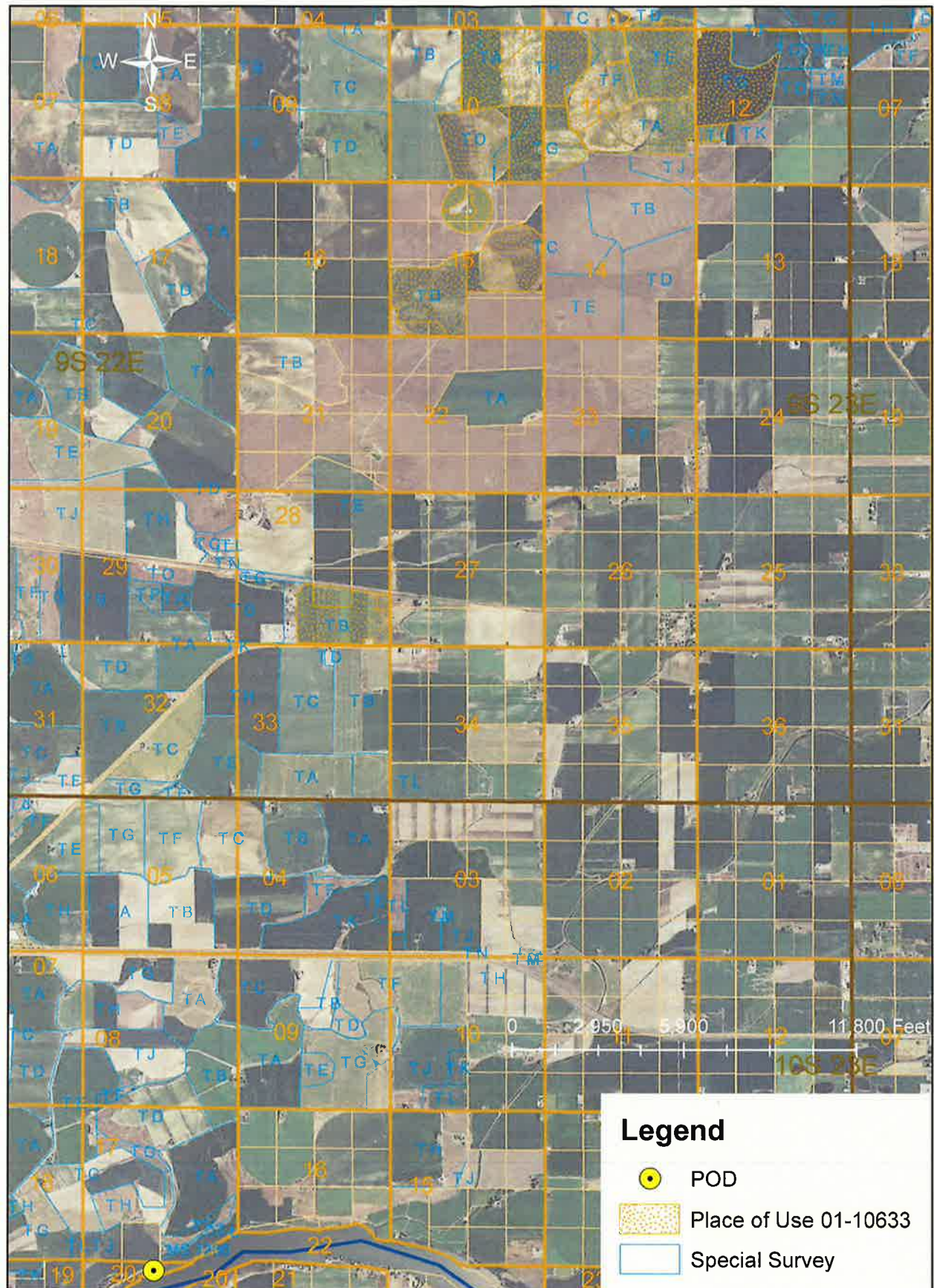
# A&B Irrigation District Water Right 01-10633



Based on 2017 NAIP Photography

Prepared for A&B Irrigation District by ERO 5-2018

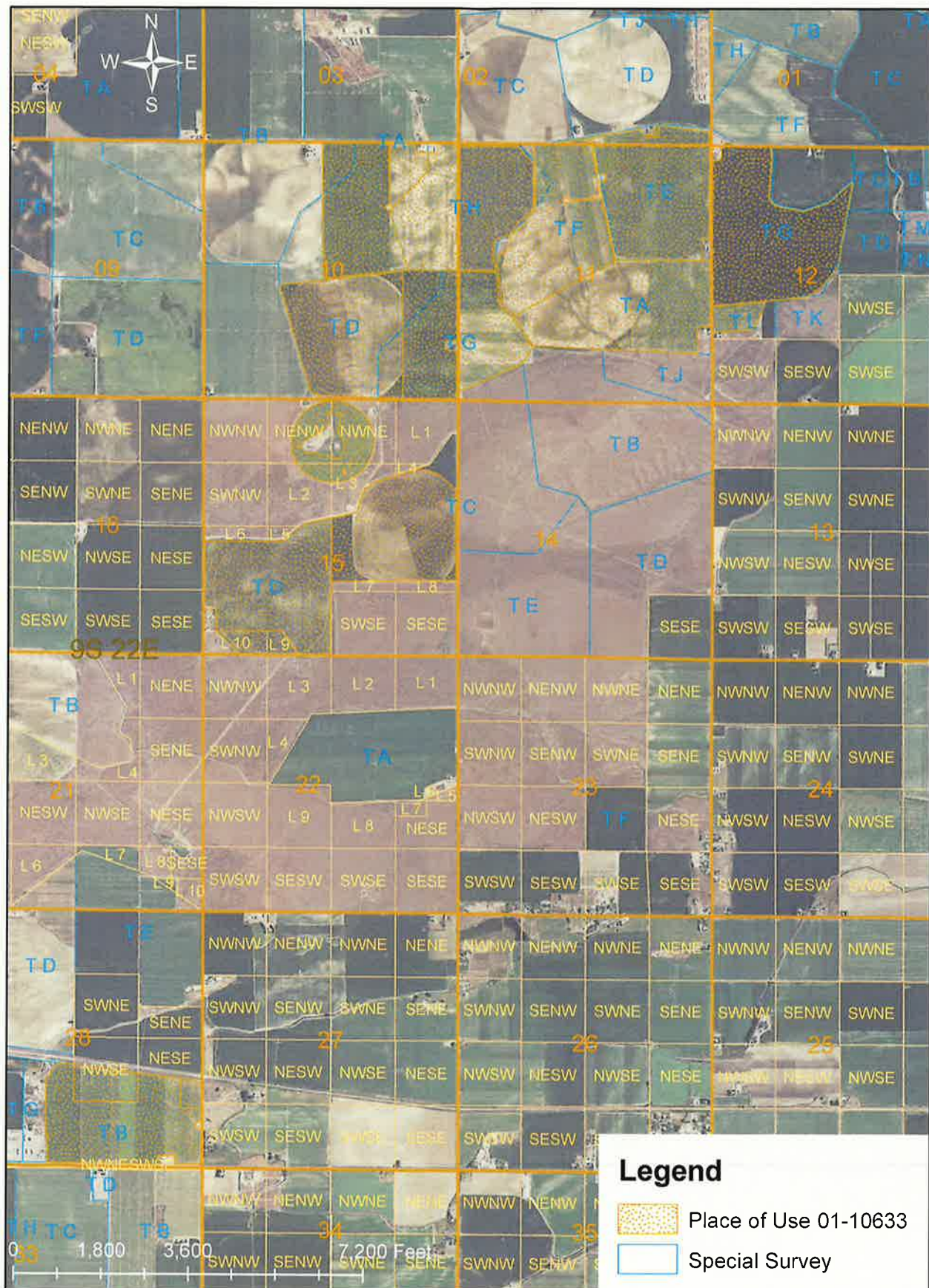
# A&B Irrigation District Water Right 01-10633



Based on 2017 NAIP Photography

Prepared for A&B Irrigation District by ERO 5-2018

# A&B Irrigation District Water Right 01-10633 POU



Based on 2017 NAIP Photography

Prepared for A&B Irrigation District by ERO 5-2018

# A&B Irrigation District Water Right 01-10633 POD



Based on 2017 NAIP Photography

Prepared for A&B Irrigation District by ERO 5-2018

**LAYNE PUMPS, INC**

P.O. BOX 640

TWIN FALLS, ID 83301

TELEPHONE 208-733-3284

FAX: 208-423-5137

**QUOTATION AND ORDER**

CH2MHILL

ATTN: TOBY PALIN

toby.palin@ch2m.com

10/22/2015

A &amp; B IRRIGATION

UNIT AREA A

PUMPING PLANT 2

WE ARE PLEASED TO SUBMIT THE FOLLOWING QUOTATION:

| QUANTITY | SPECIFICATIONS                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | UNIT PRICE | TOTAL PRICE |
|----------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------|-------------|
| 2        | 250 HP GE VHS 1200 RPM MOTOR/ 460V, WP-1, PREM EFFICIENT, INVERTER DUTY<br>G.E. 250 HP COMPLETE WITNESS & REPORT - \$5095 PER MOTOR<br><br>OPTIONAL U.S. MOTORS ADDITIONAL \$2031 PER MOTOR (\$24376)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | 22345.00   | 44,690.00   |
| 2        | FLOWSERVE 18ENL (3600 GPM) SHORT COUPLED PUMPS (140" BASE TO BASKET) 12WTOL CAST IRON DISCHARGE HEAD ASSEMBLY<br>12" X 2-1/2" X 1-11/16 THREADED COLUMN ASSY<br>.416 SS HEAD SHAFT AND LINE SHAFT<br>18ENL 5 STAGE BOWL ASSY W/ GALVANIZED BASKET<br>STRAINER / 17-4 SS BOWL SHAFT/ BRONZE BACKED<br>MARINE BEARINGS/ TNE MEC N140 ON OD OF BOWL<br>ASSEMBLY AND COLUMN PIPE (MADE IN USA) 16 WEEK DELIVERY                                                                                                                                                                                                                                                                                                                                                                                                                             | 29584.00   | 59,168.00   |
| 6        | 500 HP G.E. VHS 1200 RPM MOTOR/ 4160V, WP-1, STD EFFICIENT<br>G.E. 500 HP COMPLETE WITNESS & REPORT - \$5830 PER MOTOR<br><br>OPTIONAL U.S. MOTORS ADDITIONAL \$9070 PER MOTOR (\$61870)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | 52800.00   | 316,800.00  |
| 6        | FLOWSERVE 22ENM (6700 GPM) SHORT COUPLED PUMPS (140" BASE TO BASKET) 14WTOL CAST IRON DISCHARGE HEAD ASSEMBLY<br>14" X 3-1/2" X 2-3/16" THREADED COLUMN ASSY<br>.416 SS HEAD SHAFT AND LINE SHAFT<br>22ENM 3 STAGE BOWL ASSY W/ GALVANIZED BASKET<br>STRAINER / 17-4 SS BOWL SHAFT/ BRONZE BACKED<br>MARINE BEARINGS/ TNE MEC N140 ON OD OF BOWL<br>ASSEMBLY AND COLUMN PIPE (MADE IN USA) 16 WEEK DELIVERY<br><br>U.S. MOTOR TEST ADDERS:<br>NON-WITNESSED COMPLETE INITIAL TEST 500 HP - \$4430 PER MOTOR<br>NON-WITNESSED COMPLETE INITIAL TEST 250HP - \$1618 PER MOTOR<br>NON-WITNESSED VIBRATION TEST - \$ 945 PER MOTOR<br>NON-WITNESSED SOUND TEST - \$1440 PER MOTOR<br>SUBMITTAL ADDERS - ROTOR CRITICAL SPEED DATA \$3750<br><br>BOTH MOTOR COMPANIES TOOK EXCEPTION TO API 541 REQUIRMENTS<br>INFORMATION ON BOTH ATTACHED. | 62767.00   | 376,602.00  |

TERMS NET 30STATE SALES TAX N/ADELIVERY 16 WEEKS AFTER RECEIPT OF ORDER &  
RELEASE TO MANUFACTURERTOTAL PRICE \$797,260.00

We hereby accept your proposal

on \_\_\_\_\_ 20\_\_\_\_

signed \_\_\_\_\_

by \_\_\_\_\_

LAYNE PUMPS, INC

BY GREG HARDY

QUOTATION NO. \_\_\_\_\_

01-10633 Photos



A&B Pumping Plant #2



Typical Meter Installation



Meter Installations on One Bank of Pumps



Typical Meter Readout