

STATE OF IDAHO  
DEPARTMENT OF WATER RESOURCES  
**BENEFICIAL USE FIELD REPORT**

**A. GENERAL INFORMATION**

**Permit No:** 47-17575  
**Exam Date:** 05/11/2016

1. Current Owner:  
L & S LAND HOLDINGS LLC 2930 S 2300 E WENDELL ID 83355
2. Accompanied by: N/A  
Phone No:  
Address:  
Relationship to permit Holder:

3. **SOURCE:**  
ROCK CREEK

**Tributary**  
SNAKE RIVER

**Method of Determination:** On-site inspection

**B. OVERLAP REVIEW**

1. Other water rights with the same place of use: YES Overlap

| Water Right No.   | Source                  | Purpose of Use | Basis |
|-------------------|-------------------------|----------------|-------|
| See Attachment #1 | Rock Creek/Ground Water | Irrigation     |       |
|                   |                         |                |       |

Comments: \_\_\_\_\_

2. Other water rights with the same point-of-diversion: Yes Overlap

| Water Right No.   | Source     | Purpose of Use | Basis |
|-------------------|------------|----------------|-------|
| See Attachment #2 | Rock Creek | Irrigation     |       |
|                   |            |                |       |

Comments: \_\_\_\_\_

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

ROCK CREEK SW¼ SW¼ SW¼, Sec. 1, Twp 12S, Rge 18E, B.M. TWIN FALLS County

Method of Determination: On-site inspection

**PLACE OF USE:** IRRIGATION STORAGE

| Twp | Rng | Sec | NE |    |    |    | NW |    |    |    | SW |    |    |    | SE |    |    |    | Totals |
|-----|-----|-----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|--------|
|     |     |     | NE | NW | SW | SE | NE | NW | SW | SE | NE | NW | SW | SE | NE | NW | SW | SE |        |
| 11S | 19E | 19  |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    | X  |        |
| 11S | 19E | 20  |    |    |    |    |    |    |    |    |    |    | X  |    |    |    |    |    |        |

**PLACE OF USE:** IRRIGATION FROM STORAGE

| Twp | Rng | Sec | NE   |      |      |      | NW |    |    |    | SW   |      |      |      | SE |    |    |    | Totals |
|-----|-----|-----|------|------|------|------|----|----|----|----|------|------|------|------|----|----|----|----|--------|
|     |     |     | NE   | NW   | SW   | SE   | NE | NW | SW | SE | NE   | NW   | SW   | SE   | NE | NW | SW | SE |        |
| 11S | 19E | 8   | 40.0 | 31.0 | 32.0 | 40.0 |    |    |    |    |      |      |      |      |    |    |    |    | 143.0  |
| 11S | 19E | 9   |      |      |      |      |    |    |    |    | 40.0 | 39.0 | 39.0 | 40.0 |    |    |    |    | 158.0  |

|     |     |    |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |       |
|-----|-----|----|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|-------|
| 11S | 19E | 16 |      |      |      |      | 40.0 | 39.0 | 38.0 | 40.0 | 40.0 | 38.0 | 38.0 | 40.0 |      |      |      |      | 313.0 |
| 11S | 19E | 20 | 37.0 | 33.0 | 39.0 | 40.0 | 38.0 | 36.0 | 38.0 | 39.0 | 38.0 | 38.0 | 2.0  | 38.0 | 40.0 | 38.0 | 39.0 | 39.0 | 572.0 |
| 11S | 19E | 29 | 36.0 | 37.0 | 40.0 | 40.0 | 31.0 | 38.0 | 34.0 | 38.0 | 38.0 | 40.0 | 37.0 | 37.0 | 40.0 | 40.0 | 40.0 | 39.0 | 605.0 |
| 11S | 19E | 30 | 38.0 |      | 38.0 | 40.0 |      |      |      |      | 39.0 |      |      | 33.0 | 40.0 | 40.0 | 33.0 | 37.0 | 338.0 |

Total Acres: 2,129.0

Method of Determination: On-site inspection, aerial imagery and per the system operator

3.

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

X 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

X 1:24,000 or greater.

X Aerial Photo Attached (required for irrigation of 10+ acres).

X Photo of Diversion and System Attached

4.

| Diversion ID No.*      | Motor Make | Hp | Motor Serial No. | Pump Make | Pump Serial No. or Discharge Size |
|------------------------|------------|----|------------------|-----------|-----------------------------------|
| Metal Tag<br>#A0011870 |            |    |                  |           |                                   |

#### D. FLOW MEASUREMENTS

1.

| Measurement Equipment | Type | Make               | Model No. | Serial No. | Size | Calib. Date |
|-----------------------|------|--------------------|-----------|------------|------|-------------|
| Staff Gage            |      | 6' Contracted Weir |           |            |      |             |

2. Measurements: There is a staff gage on 6' contracted rectangular weir at head of the ditch. On 4/25/2019 the staff gage indicated that 1.31 feet of head was passing over the weir. The discharge table in the Bureau of Reclamation Water Measurement Manual indicates that is equivalent to 28.6 cfs.

#### E. FLOW CALCULATIONS N/A

Additional Computation Sheets Attached

Measured Method:

#### F. VOLUME CALCULATIONS

## 1. Volume Calculations for irrigation: N/A

$$V_{I.R.} = (\text{Acres Irrigated}) \times (\text{Irrigation Requirement}) =$$

$$V_{D.R.} = [\text{Diversion Rate (cfs)}] \times (\text{Days in Irrigation season}) \times 1.9835 =$$

$$V = \text{Smaller of } V_{I.R.} \text{ and } V_{D.R.} =$$

2. Volume Calculations for Other Uses: Irrigation Storage:  $2 \times 99 \text{ af} = 198 \text{ af}$ 

These two impoundments were originally built without IDWR's authorization. In 2011, IDWR issued a notice of violation (NOV). As part of the resolution of the NOV, the owner hired an engineer to establish spillway pipe elevations that would allow storage of up to 99 acre feet in each reservoir. This was done so that an engineer design for dam safety would not be required. The NOV also resulted in this water right filing. See attached surveys and storage capacity curves from dam safety files 47-17575A & 47-17575B for more information.

**G. NARRATIVE/REMARKS/COMMENTS**

With the permission of the farm manager, Poncho Villalobos, on May 11, 2016 I set out to do this field exam. First, I visited the point of diversion at the head gate on Rock Creek and then measured the weir width (6' contracted) and snapped a few photos of the water level readings and high water marks at the staff gage. I then drove along the course of the ditch, which meanders approximately 4.0 miles on down to the two reservoirs. What I found were two reservoirs with a surface area of approximately 19.0 acres each storing a total volume of 198 acre-feet (see volume calculations in this report) and pumping stations on the southwest end of each reservoir. Water flows into the reservoirs from a ditch at the southeast corner of the east reservoir and is delivered to the west reservoir through a valved pipeline.

The readings on the staff gage that day were reading approximately 1.14 feet of head over the weir, which is equivalent to 23.4 cfs (from Table 8 in the USDI Bureau of Reclamation Water Measurement Manual). There was water flowing from the ditch into the east reservoir at the inlet. On 4/25/2019 I revisited the POD and read the staff gage on the weir again, which read 1.31 cfs, which corresponds to 28.6 cfs flowing down the ditch. Both readings on the staff gage indicate the ditch capacity is more than sufficient to deliver the 9.6 cfs authorized under this permit. Since the reservoirs were also filled to capacity, that indicates that both the diversion of and volume of water authorized under this permit are sufficient to satisfy the authorized amounts this permit allows. This permit, which is junior to other irrigation water rights on the same ditch system, does allow diversion to storage 2/01 to 11/15, giving the water user time to fill the reservoirs prior to the beginning of the irrigation season.

I talked with Poncho Villalobos about this permit when he was in my office concerning other matters in April of 2018, and he indicated that the irrigation POU is correct. This permit overlaps POUs for 34 other water rights utilizing both Rock Creek water and ground water. Therefore, the only way to verify irrigation from storage under this permit is to have the system operator tell you where the water is utilized. It should also be noted that Twin Falls Canal Co. shares are likely used on the north part of this POU (Sections 8, 9 and 16 of Twp 11S, Rge 19E) and Oakley Canal Co./Southwest Irrigation District shares may be utilized on the south portion of this POU (Sections 20, 29 and 30 of Twp 11S, Rge 19E).

In regards to conditions on this permit, I have updated the trust water conditions to 933 and 935, replaced 01J with R43. Since the water master measures the diversion(s) at the head of the ditch, this is the last diversion on the ditch and the storage volumes are maintained at the reservoirs at known volumes, I have modified condition 222, which requires installation of staff gages at the reservoirs to read "upon specific notification, the right holder shall permanently install and maintain a staff gage acceptable to the Department to provide a means to measure the level of the reservoirs on a constant basis."

I recommend licensing the permitted diversion rate of 9.6 cfs and volume of 198.0 af.

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 STORAGE      | 02/01 to 11/15       |                          | 198.0 AF             |
| IRRIGATION FROM STORAGE | 03/15 to 11/15       |                          | 198.0 AF             |
| DIVERSION TO STORAGE    | 02/01 to 11/15       | 9.60 CFS                 |                      |

Totals: 9.60 CFS 198.0 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 William Mills - Water Resource Agent, Senior

Field Examiner's Name William Mills Date 4-30-2019

Reviewer \_\_\_\_\_ Date \_\_\_\_\_



Figure 1: Looking east across east reservoir



Figure 2: Looking south across west reservoir



Figure 3: Catwalk and gate to pumping station



Figure 4: West reservoir pumping station



Figure 5: East reservoir pumping station



Figure 6: Lower end of ditch at east reservoir

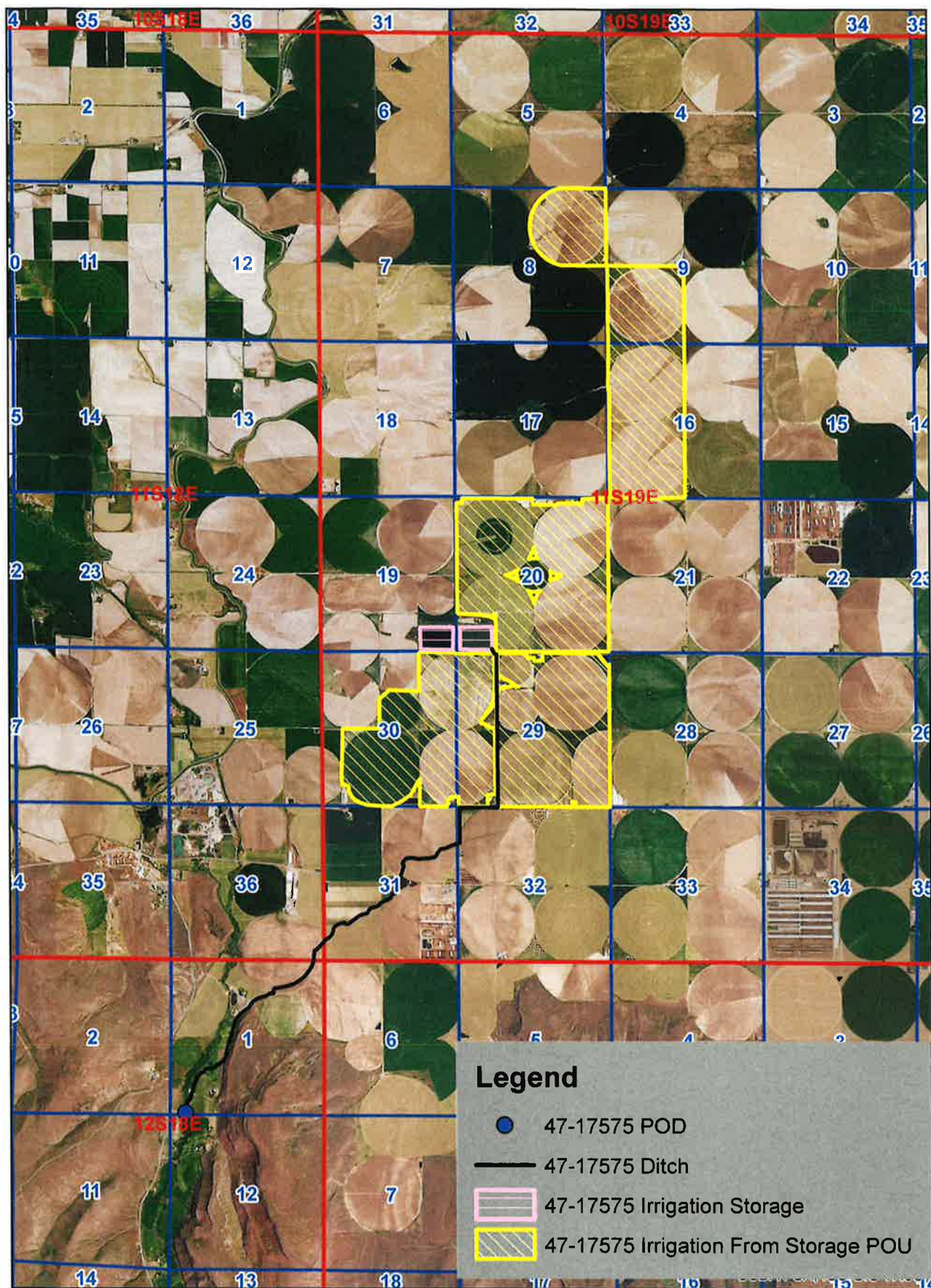


Figure 7: Staff Gauge on 5/11/2016



Figure 8: Staff gage reading on 4/25/2019

# System Diagram 47-17575

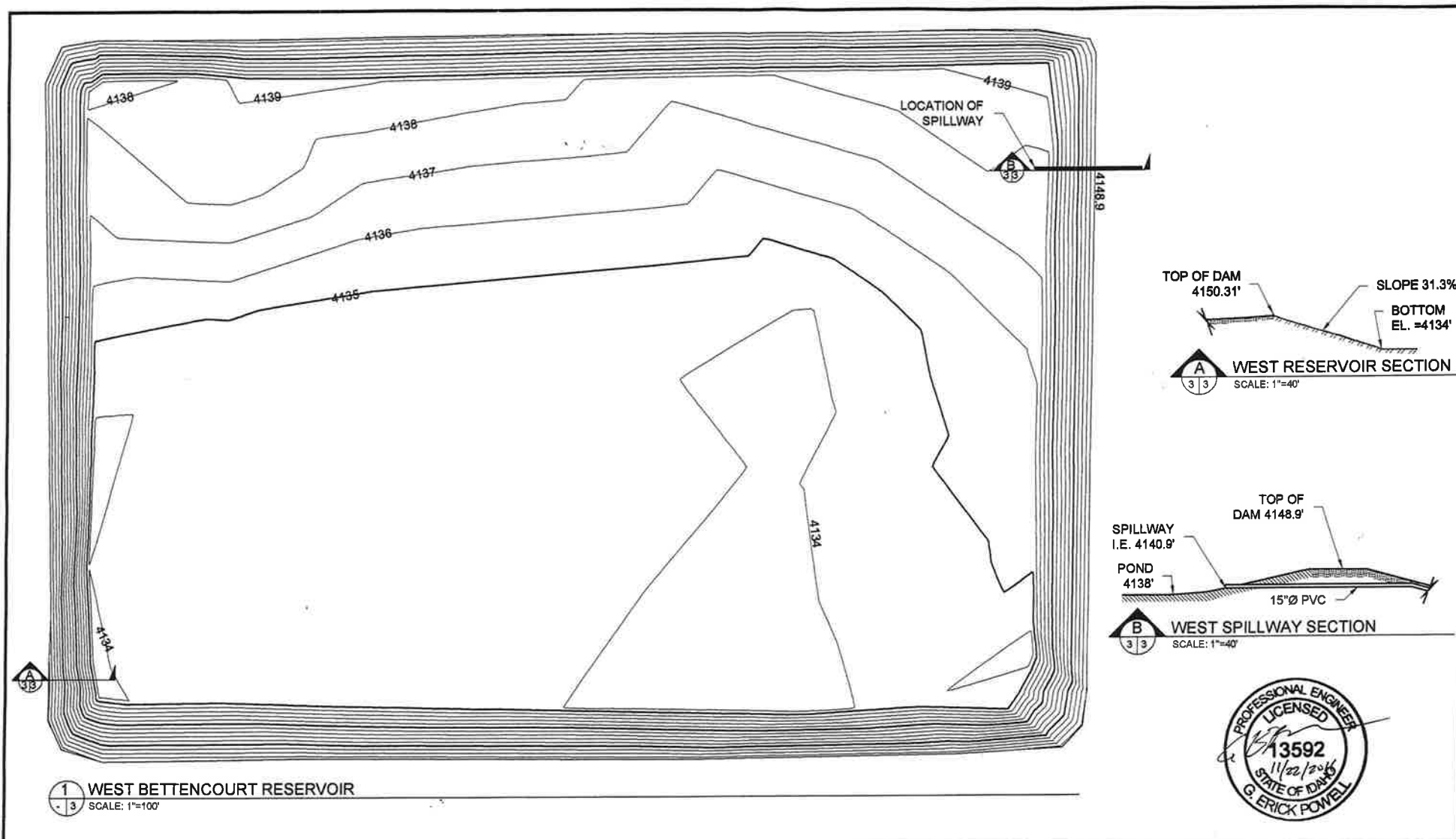


# **Attachment #1: Water Rights with places of use (POUs) overlapping 47-17575**

| Basin | Sequence | Suffix | Basis   | Priority Date | Diversion Rate | Source List  | Tributary List | Water Use List         | Total Acres | Acre Limit | Volume  |
|-------|----------|--------|---------|---------------|----------------|--------------|----------------|------------------------|-------------|------------|---------|
| 47    | 147      | B      | Decreed | 3/14/ 1892    | 0.800          | ROCK CREEK   | SNAKE RIVER    | IRRIGATION             | 194.0       | 40.0       |         |
| 47    | 168      |        | Decreed | 7/13/ 1907    | 2.200          | ROCK CREEK   | SNAKE RIVER    | IRRIGATION             | 176.7       |            |         |
| 47    | 169      |        | Decreed | 12/3/ 1917    | 1.800          | ROCK CREEK   | SNAKE RIVER    | IRRIGATION             | 176.7       |            |         |
| 47    | 170      |        | Decreed | 3/4/ 1935     | 2.000          | ROCK CREEK   | SNAKE RIVER    | IRRIGATION             | 176.7       |            |         |
| 47    | 171      |        | Decreed | 7/13/ 1907    | 3.200          | ROCK CREEK   | SNAKE RIVER    | IRRIGATION             | 156.0       |            |         |
| 47    | 173      |        | Decreed | 7/13/ 1907    | 1.200          | ROCK CREEK   | SNAKE RIVER    | IRRIGATION             | 156.0       |            |         |
| 47    | 174      |        | Decreed | 6/29/ 1911    | 1.200          | ROCK CREEK   | SNAKE RIVER    | IRRIGATION             | 156.0       |            |         |
| 47    | 179      |        | Decreed | 7/13/ 1907    | 0.400          | ROCK CREEK   | SNAKE RIVER    | IRRIGATION             | 118.0       |            |         |
| 47    | 180      |        | Decreed | 1/1/ 1918     | 2.000          | ROCK CREEK   | SNAKE RIVER    | IRRIGATION             | 118.0       |            |         |
| 47    | 181      |        | Decreed | 9/23/ 1929    | 1.200          | ROCK CREEK   | SNAKE RIVER    | IRRIGATION             | 118.0       |            |         |
| 47    | 189      |        | Decreed | 7/13/ 1907    | 1.000          | ROCK CREEK   | SNAKE RIVER    | IRRIGATION             | 73.0        |            |         |
| 47    | 191      |        | Decreed | 6/29/ 1911    | 1.600          | ROCK CREEK   | SNAKE RIVER    | IRRIGATION, MITIGATION | 47.8        | 47.8       |         |
| 47    | 192      |        | Decreed | 12/9/ 1912    | 1.600          | ROCK CREEK   | SNAKE RIVER    | MITIGATION             |             |            |         |
| 47    | 2217     |        | Decreed | 1/15/ 1941    | 0.800          | GROUND WATER |                | IRRIGATION             | 118.0       |            | 390.4   |
| 47    | 2438     |        | Decreed | 10/18/ 1903   | 3.200          | ROCK CREEK   | SNAKE RIVER    | IRRIGATION             | 194.0       | 160.0      |         |
| 47    | 2497     |        | Decreed | 12/13/ 1943   | 2.000          | GROUND WATER |                | IRRIGATION             | 194.0       | 160.0      | 640.0   |
| 47    | 2498     |        | Decreed | 2/19/ 1944    | 1.600          | GROUND WATER |                | IRRIGATION             | 176.7       |            | 706.8   |
| 47    | 2507     |        | Decreed | 2/27/ 1947    | 0.800          | GROUND WATER |                | IRRIGATION             | 118.0       |            | 390.4   |
| 47    | 2517     |        | Decreed | 5/18/ 1948    | 0.710          | GROUND WATER |                | IRRIGATION             | 72.0        |            | 288.0   |
| 47    | 2518     |        | Decreed | 7/19/ 1948    | 1.370          | GROUND WATER |                | IRRIGATION             | 156.0       |            | 423.2   |
| 47    | 2519     |        | Decreed | 7/30/ 1948    | 1.440          | GROUND WATER |                | IRRIGATION             | 240.0       | 80.0       | 320.0   |
| 47    | 2535     |        | Decreed | 9/9/ 1950     | 1.320          | GROUND WATER |                | IRRIGATION             | 221.0       |            | 584.5   |
| 47    | 4107 A   |        | Decreed | 3/15/ 1956    | 1.200          | GROUND WATER |                | IRRIGATION             | 156.0       | 56.0       | 224.0   |
| 47    | 4110     |        | Decreed | 1/28/ 1970    | 2.100          | WASTE WATER  | SINKS          | IRRIGATION             | 196.0       |            |         |
| 47    | 4351     |        | Decreed | 10/1/ 1957    | 1.800          | GROUND WATER |                | IRRIGATION             | 157.0       |            | 628.0   |
| 47    | 4352     |        | Decreed | 3/15/ 1955    | 1.000          | GROUND WATER |                | IRRIGATION             | 432.0       |            | 487.9   |
| 47    | 4353     |        | Decreed | 3/15/ 1954    | 3.800          | GROUND WATER |                | IRRIGATION             | 432.0       |            | 1,728.0 |
| 47    | 14077    |        | Decreed | 5/1/ 1957     | 1.170          | GROUND WATER |                | IRRIGATION             | 316.0       | 79.0       | 316.0   |
| 47    | 14078    |        | Decreed | 5/1/ 1962     | 1.200          | GROUND WATER |                | IRRIGATION, MITIGATION | 47.8        |            | 584.5   |
| 47    | 17270    |        | Decreed | 9/23/ 1929    | 0.370          | ROCK CREEK   | SNAKE RIVER    | IRRIGATION             | 37.0        |            |         |
| 47    | 17273    |        | Decreed | 6/23/ 1945    | 0.600          | GROUND WATER |                | IRRIGATION             | 37.0        |            | 148.0   |
| 47    | 17340    |        | Decreed | 9/23/ 1929    | 3.200          | ROCK CREEK   | SNAKE RIVER    | IRRIGATION, MITIGATION | 203.8       |            |         |
| 47    | 17641    |        | Decreed | 8/19/ 1974    | 0.050          | GROUND WATER |                | IRRIGATION             | 38.0        | 15.8       | 25.7    |

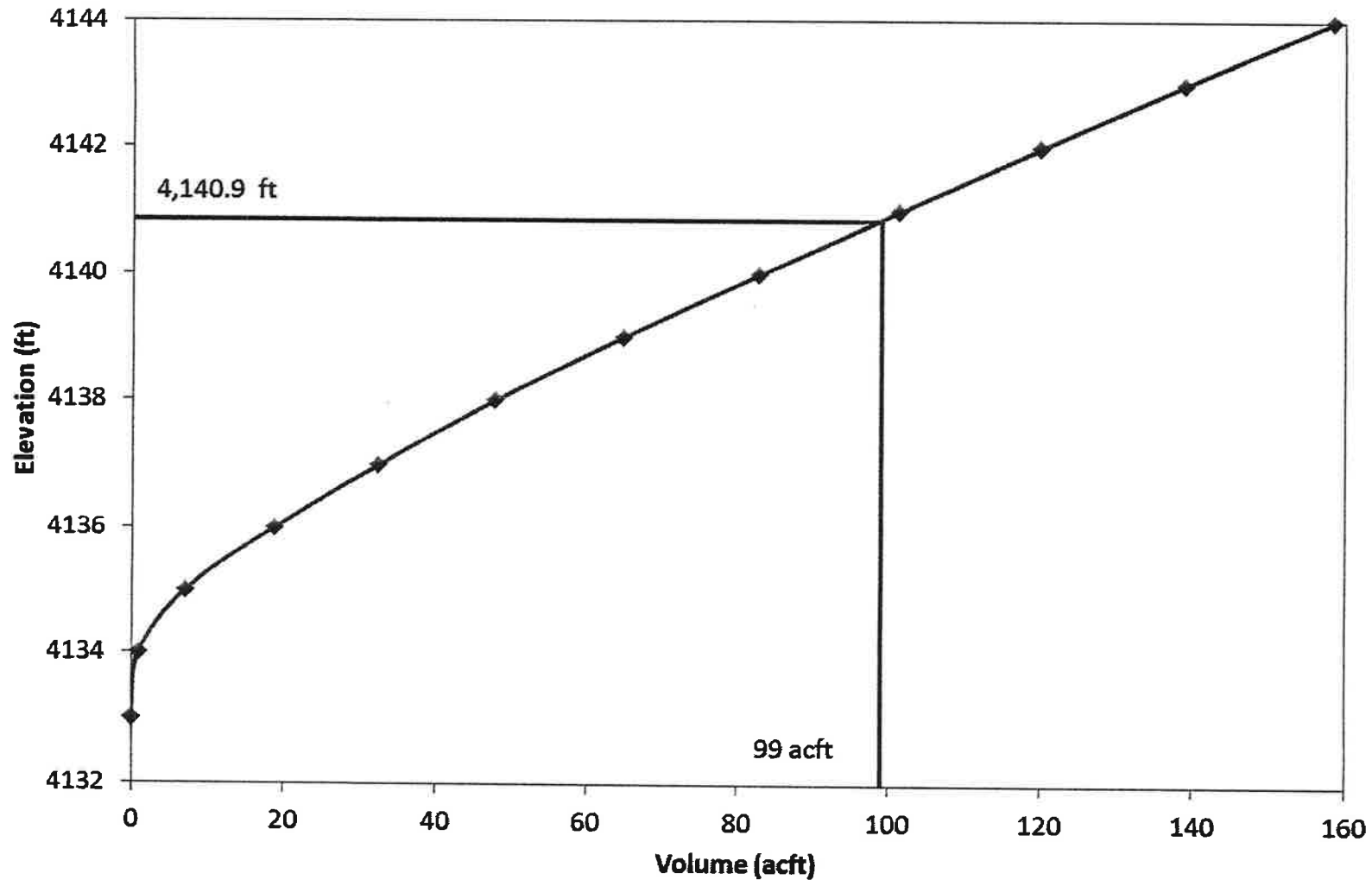
## Attachment #2: Water Rights with the same point of diversion (POD)

| Basin | Sequence | Suffix | Process     | Basis   | Priority Date | Diversion Rate | Water Use List         | Total Acres | Acre Limit | Volume |
|-------|----------|--------|-------------|---------|---------------|----------------|------------------------|-------------|------------|--------|
| 47    | 127      | C      | Water Right | Decreed | 5/1/1878      | 1.000          | IRRIGATION             | 232.5       | 53.6       | 214.3  |
| 47    | 137      | B      | Water Right | Decreed | 4/20/1880     | 1.200          | IRRIGATION, STOCKWATER | 240.0       | 60.0       |        |
| 47    | 140      |        | Water Right | Decreed | 5/31/1874     | 0.400          | IRRIGATION             | 340.0       | 84.0       |        |
| 47    | 141      |        | Water Right | Decreed | 5/31/1878     | 1.600          | IRRIGATION             | 340.0       | 84.0       |        |
| 47    | 142      |        | Water Right | Decreed | 4/30/1888     | 0.240          | IRRIGATION             | 340.0       | 53.0       |        |
| 47    | 147      | B      | Water Right | Decreed | 3/14/1892     | 0.800          | IRRIGATION             | 194.0       | 40.0       |        |
| 47    | 157      | A      | Water Right | Decreed | 3/14/1892     | 2.320          | IRRIGATION             | 340.0       | 164.0      |        |
| 47    | 168      |        | Water Right | Decreed | 7/13/1907     | 2.200          | IRRIGATION             | 176.7       |            |        |
| 47    | 169      |        | Water Right | Decreed | 12/3/1917     | 1.800          | IRRIGATION             | 176.7       |            |        |
| 47    | 170      |        | Water Right | Decreed | 3/4/1935      | 2.000          | IRRIGATION             | 176.7       |            |        |
| 47    | 171      |        | Water Right | Decreed | 7/13/1907     | 3.200          | IRRIGATION             | 156.0       |            |        |
| 47    | 173      |        | Water Right | Decreed | 7/13/1907     | 1.200          | IRRIGATION             | 156.0       |            |        |
| 47    | 174      |        | Water Right | Decreed | 6/29/1911     | 1.200          | IRRIGATION             | 156.0       |            |        |
| 47    | 175      |        | Water Right | Decreed | 1/1/1918      | 0.360          | IRRIGATION             | 232.5       | 145.3      | 152.6  |
| 47    | 176      |        | Water Right | Decreed | 9/23/1929     | 1.450          | IRRIGATION             | 232.5       | 145.3      | 581.3  |
| 47    | 177      | B      | Water Right | Decreed | 7/13/1907     | 0.166          | IRRIGATION, STOCKWATER | 18.5        | 18.5       |        |
| 47    | 177      | F      | Water Right | Decreed | 7/13/1907     | 0.244          | IRRIGATION, STOCKWATER | 23.0        |            | 92.0   |
| 47    | 177      | G      | Water Right | Decreed | 7/13/1907     | 0.008          | IRRIGATION, STOCKWATER | 4.3         |            | 17.2   |
| 47    | 179      |        | Water Right | Decreed | 7/13/1907     | 0.400          | IRRIGATION             | 118.0       |            |        |
| 47    | 180      |        | Water Right | Decreed | 1/1/1918      | 2.000          | IRRIGATION             | 118.0       |            |        |
| 47    | 181      |        | Water Right | Decreed | 9/23/1929     | 1.200          | IRRIGATION             | 118.0       |            |        |
| 47    | 183      |        | Water Right | Decreed | 6/26/1911     | 0.400          | IRRIGATION             | 240.0       | 55.0       |        |
| 47    | 184      | A      | Water Right | Decreed | 11/29/1918    | 0.775          | IRRIGATION             | 240.0       | 55.0       |        |
| 47    | 184      | B      | Water Right | Decreed | 11/29/1918    | 0.400          | IRRIGATION             | 80.0        | 10.0       |        |
| 47    | 187      |        | Water Right | Decreed | 6/29/1911     | 2.270          | IRRIGATION             | 232.0       | 145.3      | 581.3  |
| 47    | 188      |        | Water Right | Decreed | 11/29/1918    | 1.060          | IRRIGATION             | 232.5       | 145.3      | 448.9  |
| 47    | 189      |        | Water Right | Decreed | 7/13/1907     | 1.000          | IRRIGATION             | 73.0        |            |        |
| 47    | 190      |        | Water Right | Decreed | 3/4/1935      | 0.500          | IRRIGATION             | 73.0        |            |        |
| 47    | 191      |        | Water Right | Decreed | 6/29/1911     | 1.600          | IRRIGATION, MITIGATION | 47.8        | 47.8       |        |
| 47    | 192      |        | Water Right | Decreed | 12/9/1912     | 1.600          | MITIGATION             |             |            |        |
| 47    | 2474     |        | Water Right | Decreed | 1/17/1906     | 2.200          | IRRIGATION             | 240.0       | 110.0      |        |
| 47    | 2484     |        | Water Right | Decreed | 6/29/1911     | 0.397          | IRRIGATION             | 240.0       | 60.0       |        |
| 47    | 7529     |        | Water Right | Decreed | 12/1/1967     | 3.610          | IRRIGATION             | 232.5       | 180.7      | 551.3  |
| 47    | 16640    | B      | Water Right | Decreed | 4/1/1880      | 0.283          | IRRIGATION, STOCKWATER | 18.5        | 18.5       | 74.0   |
| 47    | 16640    | G      | Water Right | Decreed | 4/1/1880      | 0.015          | IRRIGATION, STOCKWATER | 4.3         |            | 17.2   |
| 47    | 17269    |        | Water Right | Decreed | 9/23/1929     | 0.014          | IRRIGATION             | 1.4         |            |        |
| 47    | 17270    |        | Water Right | Decreed | 9/23/1929     | 0.370          | IRRIGATION             | 37.0        |            |        |
| 47    | 17340    |        | Water Right | Decreed | 9/23/1929     | 3.200          | IRRIGATION, MITIGATION | 203.8       |            |        |



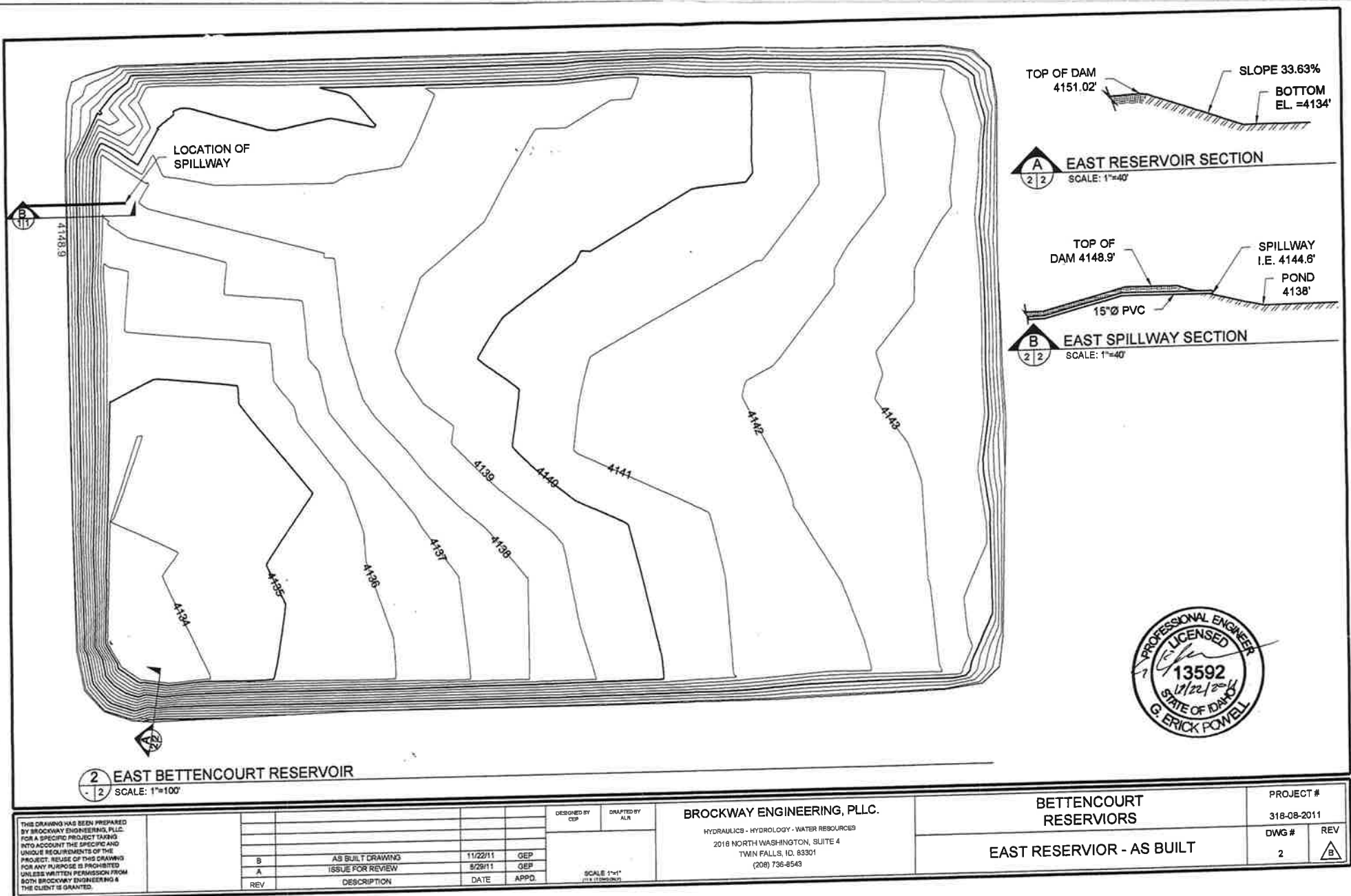
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|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----|------------------|----------|-------|-----------------------------|-------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------|-------|-------------|--|
| THIS DRAWING HAS BEEN PREPARED BY BROCKWAY ENGINEERING, PLLC. FOR A SPECIFIC PROJECT TAKING INTO ACCOUNT THE SPECIFIC AND UNIQUE REQUIREMENTS OF THE PROJECT. REUSE OF THIS DRAWING FOR ANY PURPOSE IS PROHIBITED UNLESS WRITTEN PERMISSION FROM BOTH BROCKWAY ENGINEERING & THE CLIENT IS GRANTED. |     |                  |          |       | DESIGNED BY<br>CEP          | DRAFTED BY<br>ALR | BROCKWAY ENGINEERING, PLLC.<br><br>HYDRAULICS - HYDROLOGY - WATER RESOURCES<br><br>2016 NORTH WASHINGTON, SUITE 4<br>TWIN FALLS, ID. 83301<br>(208) 736-8543 | BETTENCOURT<br>RESERVOIRS |       | PROJECT #   |  |
|                                                                                                                                                                                                                                                                                                     |     |                  |          |       |                             |                   |                                                                                                                                                              |                           |       | 318-08-2011 |  |
|                                                                                                                                                                                                                                                                                                     | B   | AS BUILT DRAWING | 11/22/11 |       |                             |                   |                                                                                                                                                              |                           | DWG # | REV         |  |
|                                                                                                                                                                                                                                                                                                     | A   | ISSUE FOR REVIEW | 8/29/11  | CEP   |                             |                   |                                                                                                                                                              |                           | 3     | B           |  |
|                                                                                                                                                                                                                                                                                                     | REV | DESCRIPTION      | DATE     | APPD. | SCALE 1"=1"<br>(11/22/2016) |                   |                                                                                                                                                              |                           |       |             |  |

### Storage Capacity Curve West Bettencourt Reservoir

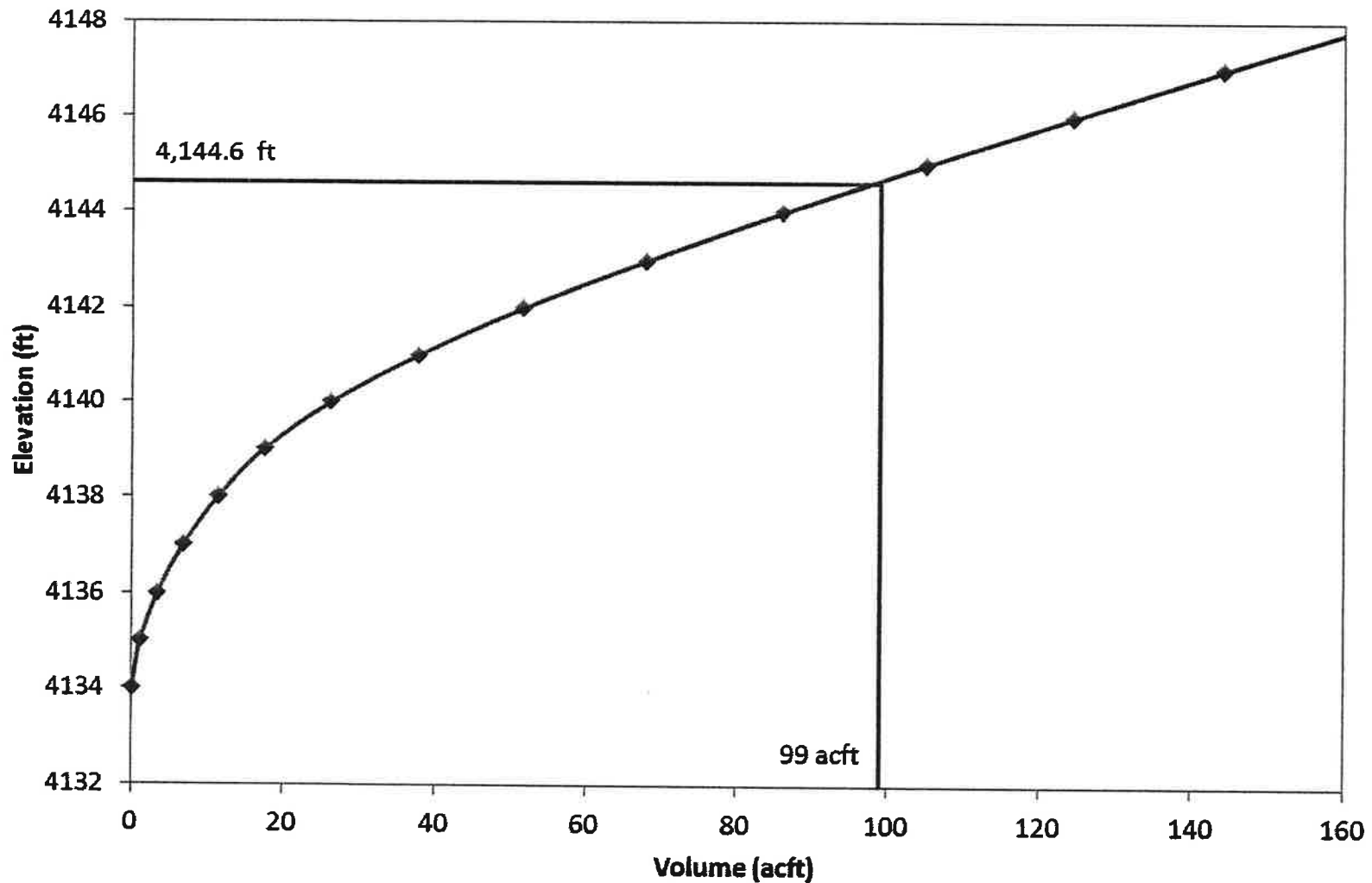


**WEST BETTENCOURT RESERVOIR STORAGE CAPACITY CURVE**  
SESE SECTION 19, T11S R19E, BOISE MERIDIAN  
L&S LAND HOLDINGS, LLC (LUIS BETTENCOURT)

BROCKWAY ENGINEERING, PLLC  
GEP - AUG 29, 2011



### Storage Capacity Curve East Bettencourt Reservoir



### EAST BETTENCOURT RESERVOIR STORAGE CAPACITY CURVE

SWSW Section 20, T11S R19E, BOISE MERIDIAN

L&S LAND HOLDINGS, LLC (LUIS BETTENCOURT)

BROCKWAY ENGINEERING, PLLC  
GEP - AUG 29, 2011