

MEMO

From: Sandy Hemenway

To: File 63-11273

Date: 12/7/2009

Proof of Beneficial Use

Due on or before 8/1/1992. Proof Received 6/22/1992.

Beneficial Use Field Report

Both 63-11934 and 63-11273 were conducted at the same time on 5/1/1997, by Lori Graves, but there is no signature on the last page of 63-11273 for the field examiner.

Acreage

The 1987 Imagery indicates irrigation, but the 1992 DOQQ Imagery was utilized to draw the shapefile for calculating the acreage irrigated since the fields and ditches were more easily defined. AdHoc POU calculated 139.1 acres, but when it is printed out on a Water Right Report it shows 130.2 acres as the total, and 139.1 Total Acres. This is due to the additional acreage either has a govt lot number or does not, and Workflow will only take one amount from each QQ. For this reason, the Acreage Total on the water right report does not match the Total Acres, unless manually altered to include all acreage in each QQ. **NWNE 0.9 acres Lot 11, and SWNE 8.0 acres were added to the water report to match acres in POU shown in AdHoc.** Previously acreage calculations were conducted with the use of a radar acre counter by Landview Fertilizer Company in 1995, and planimetered by CFSA in 1987 showing 135.2 acres irrigated, prior to the pond developments and additional development of approximately >12 acres of wetland area.

Recommend 139.1 acres irrigation in accordance to ArcMap, instead of 137.3 acres, as calculated during the field inspection. Changes in acres shown on ArcMap required an Amendment to be issued.

System Description

8 inch casing, 190 ft deep artesian well, drilled 5/31/1991 (**450 gpm or 1.0 cfs**); open discharges to Hart Davis Ditch (146 shares owned), then to the a 325 ft X 320 ft X 25 ft = 60 af pond with a 15 Hp pump that only allows 9.5 ft drawdown in the total pond, lifts water from the pond to culvert, goes under a dirt road to a concrete ditch and dirt ditches, and then gravity flow irrigation (a diagram of ditches and gravity flow is in the file). The South Pond is supplied by 3 sources, the Hart Davis Ditch, the artesian well, and natural seepage water hydraulically connected to the Boise River. The South Pond minimizes water fluctuations, by preventing siphon tubes from losing their prime or at other times prevents flooding of applicant's property as has occurred in the past. The South Pond provides a more reliable irrigation system. The North Pond contains only Boise River seepage water, and is not physically connected to the South Pond. The North Pond is not utilized in any means with this irrigation system. 63-11934 comes into play at the storage pond and 15 Hp pump (storage, and irrigation to storage).

CFS

Field Exam notes indicated that the discharge pipe from the well was not full, so a polysonic was not conducted. Chuck Davis made an orifice measurement flow when the well was drilled in 5/31/1991, calculating flow at $450 \text{ gpm} \times 0.00223 = 1.00 \text{ cfs}$.

Recommend capacity of system: 1.00 cfs. (groundwater supplemental to surface water).

Season of Use

Permit was approved for 3/15 – 11/15. Administrative Memo No. 9 Licensing approves changing the season to meet current IDWR standard, which is 3/1 – 11/15 (260 days).

Volume Calculation

$\text{Vir} = 139.1 \text{ acres} \times 4.5 = 625.95 \text{ af}$

$\text{Vdr} = 1.0 \text{ cfs} \times 260 \text{ days} \times 1.9835 = 515.71 \text{ af}$

$V = 515.7 \text{ af}$

Recommend 515.7 af (acceptable, since ground water is used as a supplemental source to surface water).

Conditions:

R65: Combined Limit with all other water rights of 0.02 cfs and 4.5 af per acre for irrigation of lands listed in POU.

065 & 104: Groundwater supplemental to surface water.

Review Spreadsheet for License 63-11273

Agent: Sandy Hemenway

Date: 12/7/2009

Contents of File:

2/21/1990 Application for Permit received (priority date)

7/13/1990 EXHIBIT R-4: Signed Permit to Appropriate Water. (proof of b/u shall be submitted on or before 8/1/1992)

7/13/1990 Approved Application for Permit (groundwater diverted to drainage ditch where surface water is regulated during months of low flow. Permit Approval Notice.

5/14/1991 Drilling Permit 63-91-W-173

5/31/1991 Well Drillers Report

6/13/1991 EXHIBIT R-6: Hart Davis Ditch Co. certificates (40 shares, and 146 shares)

3/20/1992 Letter from Robert B Whitney, RE: unlawful flow of an artesian well; informing of approved permit (that permit allow the diversion of water for irrigation only 3/15 - 11/15; any other diversion of water not covered by permit is unlawful w/o permit or license)

5/1/1992 Idaho Power records for irrigation.

5/31/1992 Proof Due Notice within 60 days (B/U must be submitted on or before August 1, 1992; Order changed date to 11/1/1994)

6/22/1992 Proof of Beneficial Use submitted

6/22/1992 Proof of Beneficial Use Fee paid \$125 C024652

7/1/1992 Idaho Power records for irrigation.

7/6/1992 Proof Acknowledgment Letter

7/24/1992 Letter from Bruce Healy w/questions

7/28/1992 Letter from L. Glen Saxton

7/31/1992 Idaho Power records for irrigation.

8/13/1992 Letter from Lori Graves amendment to add gravel pit as 3rd POD

9/1/1992 EXHIBIT 7: Letter from Ronald Kuegle, ref: how to irrigate at a constant rate, is to have storage facility

9/1&9/8/92 Notice of correction of application for amendment of permit (advertised in Id. Statesman)

9/3/1992 EXHIBIT S-1: Letter from Karl Gebhardt, PE, PH/Resource Systems (gravel operation will have little impact on existing water use, mainly due to presence of Boise River acting as continuous recharge source)

9/17/1992 EXHIBIT S-2: Letter from Ada County approving the application, and 9/21/1992 Order.

9/17/1992 Letter from H. & Gary Minger w/concerns

Letter from Bruce Healy w/concerns.

9/18/1992 Letter from R & E Rippey w/concerns.
Letter from B & M Rode w/concerns.
Letter from Robert Tannehill w/concerns.
Letter from Kevin and Jill Devereaux w/concerns.

9/21/1992 Order signed by John Bastida, stating Board reverses the decision of Ada County P&Z and approves request for conditional permit.

10/1&10/8 Legal Advertising Invoice.

11/20/1992 Notice of Conference signed by Dave Tuthill, Jr. (Conference & Hearing Procedure: meeting set for 12/2/92 for 63-11273 amendment, and application for permit for 63-11934)

4/20/1993 Photos taken by D. Tuthill (approx. 3' drawdown in first 10 hours---gravel pit)

5/27/1993 Letter from Bruce M. Smith (Rosholt Robertson, & Tucker attny at law, confirmation of rescheduled hearing for 7/8/1993

6/21/1993 Notice of Hearing for application permit 63-11934 & application for amendment 63-11273 for 7/8/93

6/30/1993 Memo to L. Glen Saxton from R. Keith Higginson, re: appointing L. Glen Saxton as hearing officer for 7/8/1993 hearing.

7/8/1993 **ROSTER OF ATTENDANCE for 7/8/1993 Hearing**

Copy of the pump curve.

Notes taken from the court hearing tape.

Notes taken by Dave Tuthill, at the hearing.

Exhibit R-1: 7.5-Minute Series (Orthophotoquad) map outlining the POU

Exhibit R-2: Aerial Photograph indicating POU, storage ponds, location of canal

Exhibit R-3: Application for Permit for Water Right No. 63-11934

R-8 thru R-12 are pictures that are scanned, indicating the POU

7/21/1993 Letter from Bruce M. Smith (Rosholt, Robertson & Tucker, attny at law), submitting additional info.

Idaho Power records indicating when the pump was first used.

8/12/1993 Letter from L. Glen Saxton requesting additional information (no analysis of wetted acres before & after land leveling).

8/13/1993 Received letter from Bruce Smith w/map showing acres & gravel pit location (showing wetted acres before and after ponds are constructed); 6 acres in center are where coral/buildings are located.

Irrigation fields were primarily corn or irrigation for pasture.

8/19/1993 Letter from L. Glen Saxton, stating department will review and issue a recommended order.

8/24/1993 Letter from Bruce Healy protesting application 63-11273, and application for permit 63-11394.

8/30/1993 Letter from Earnest Hogers, president Hart Davis Ditch showing areas historically watered by Hart Davis Water.

9/16/1993 Letter from L. Glen Saxton Informing about Recommended Order

11/3/1993 Letter signed by L. Glen Saxton, with final order issued by the department (FINAL ORDER)

11/3/1993 EXHIBIT R-5: Application for Amendment of Permit DENIED 11/3/1993

5/1/1997 Beneficial Use Field Report w/o a signature (same handwriting as 63-11934 completed by Lori Graves)

**SESENE Lot 12 Sec 14 (denied application listed 2 points, but Field Exam doesn't state this)

12/2/2009 Notes and exhibits were incorporated back into the file, per instructions from Shelley Keen.

Additional Notes:

63-11273 **Groundwater is supplemental source to surface water**

SYSTEM: 8" artesian discharges to Hart Davis Ditch (146 shares), flows in ditch to pond; 15 Hp, lifts water from pond to culvert, under dirt road to a concrete ditch to irrigate 139.1 acres

When discharge was measured it wasn't a full pipe, therefore a polysonic was not possible. Chuck Davis measured the flow at 450 gpm, when the well was drilled 5/31/1991.

Pond water = Hart Davis Ditch, Artesian well, and natural seepage (hydraulically connected with the Boise River)

Exam found 2 ponds (only 1 being utilized); N. pond not used (it is only Boise River seepage) & not physically connected to the S. pond.

South pond = 60 af (325' X 320' X 25')

Pump only allows for 9.5' drawdown in total pool therefore recommended 20 af as listed on permit 63-11934.

Idaho Power Records submitted (to satisfy final order condition 5 & 6) for sump (1200 gpm capacity via pump curve), and personal log records for artesian well (450 gpm, which coincides with the driller's measurement)

***There is no signature on the field exam for 63-11273, but it was conducted the same day/same time as 63-11934, by Lori Graves.

Volume Calculations: V.i.r. = 139.1 X 4.5 = 625.9af

V.d.r. = 1 X 260 X 1.9835 = 515.71

(Admin. Memo No. 9 Licensing: use current season of use standard 3/1 - 11/15)

V = 515.7 af (this is acceptable since used as supplemental to surface water)

Purpose for Filing:

To provide more constant flow of water for irrigation of land by pumping from pond (supplied by 3 sources - Hart Davis Ditch, artesian well, and seepage). Irrigation via dirt and concrete ditches, gravity flow via siphon tubes.

POU Overlaps:

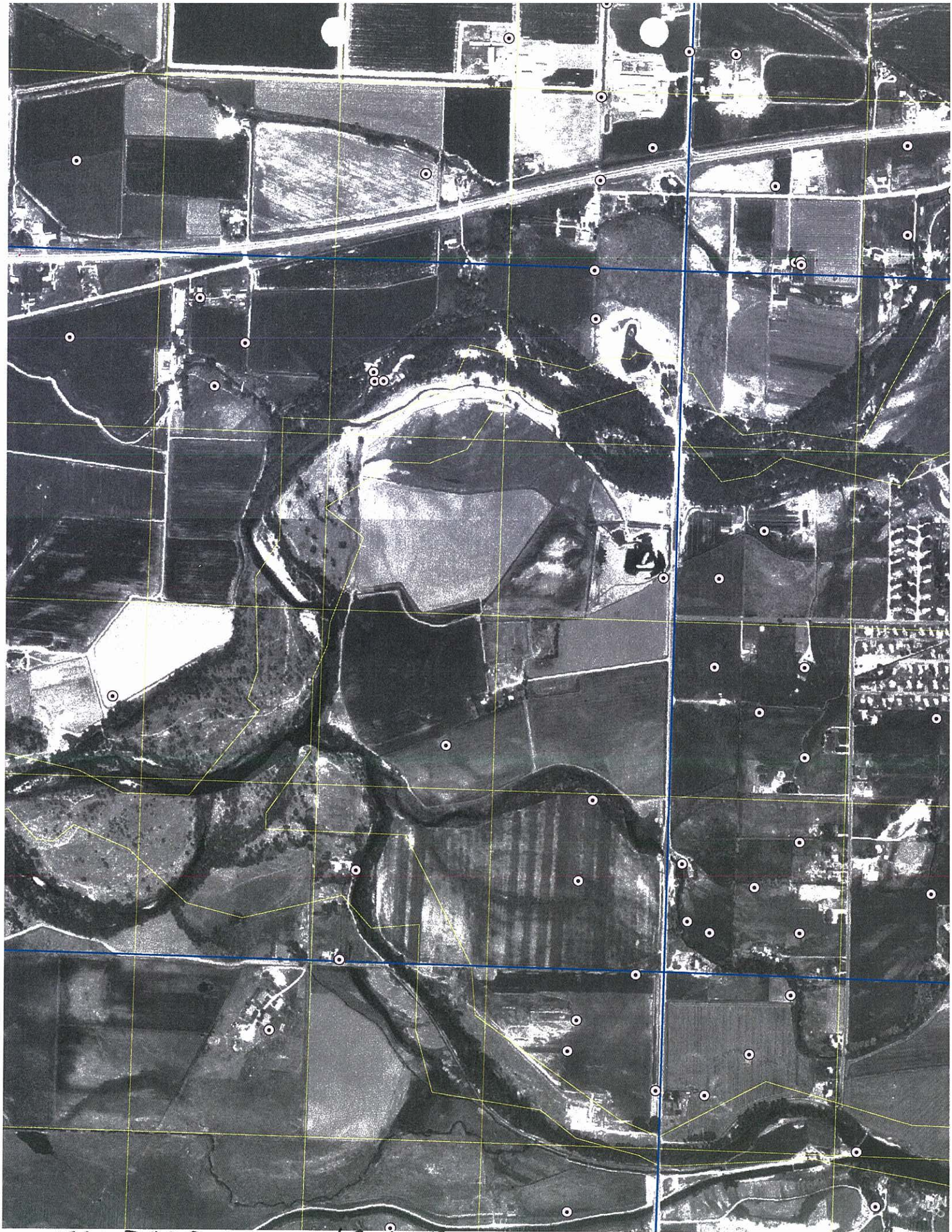
FE stated the following overlaps: 63-134, A63-134A, 63-187, A63-187 represent 146 shares in Hart Davis Ditch Co. 63-5173 and 63-11934. ArcMap did not show a POU overlap with 63-134 or 63-5173.

POU Overlaps are: 63-11934 (permit for irrigation from storage 174 acres, and storage 20 af), 63-187 (146 shares) and 63-26994 (domestic)

POD Overlaps:

FE showed overlaps: 63-11934.

POD Overlaps are: NONE, since 63-11934 is in the same QQ, but is from a 15 Hp pump from the pond, and not the artesian well.



1992. D0000

63-11273



1987 Tinsley