

STATE OF IDAHO
DEPARTMENT OF WATER RESOURCES
BENEFICIAL USE FIELD REPORT

A. GENERAL INFORMATION

Permit No: 65-13144

Exam Date: 8/11/1993

1. Current Owner: LOUISE E NESBITT
HC 78 BOX 3761
OLA ID 83657
(208)584-3550
- HOMER R NESBITT
HC 78 BOX 3761
OLA ID 83657
(208)584-3550
2. Accompanied by: Quentin Nesbitt
Phone No:
Address:
Relationship to Permit Holder: Son

3. SOURCE

SECOND FORK SQUAW CREEK

TRIBUTARY

SQUAW CREEK

B. OVERLAP REVIEW

1. Other water rights with the same place of use: None
2. Other water rights with the same point of diversion: See attachment

C. DIVERSION AND DELIVERY SYSTEM1. LOCATION OF POINT(S) OF DIVERSION:

SECOND FORK SQUAW CREEK NW1/4SW1/4 Sec. 1, Twp 11N, Rge 01E, B.M.
GEM County

Method of Determination: Field exam and GPS

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	
11N	01E	11					1.9	4.3	1.8										8.0

Total Acres: 8

Method of Determination:

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

Pos photo not available battery died during Field exam.

4. **Well or Diversion**

<u>ID No.*</u>	<u>Motor Make</u>	<u>Hp</u>	<u>Motor Serial No.</u>	<u>Pump Make</u>	<u>Pump Serial No. or Discharge Size</u>
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Second Fork Squaw Creek dam in creek to a 10" pipeline and eventually a second pipeline to POU.

D. FLOW MEASUREMENTS

1. **Measurement**

<u>Equipment</u>	<u>Type</u>	<u>Make</u>	<u>Model No.</u>	<u>Serial No.</u>	<u>Size</u>	<u>Calib. Date</u>
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Theoretical calculation based upon 88 sprinklers at 4 gpm each or 0.78 cfs.

2. **Measurements:**

The diversion from Second Fork of Squaw Creek combines the north ditch system with the south ditch system. This right utilizes the south ditch system which after the system split can deliver approximately 0.78 cfs to the POU. Other rights also utilizes this delivery system.

E. FLOW CALCULATIONS

Measured Method:

Permit Rate (irr) =	<u>0.16 cfs</u>
Proof Pd (\$ <u>\$50.00</u>) (max cfs) =	<u>0.20 cfs</u>
Found POU acres <u>8.0</u> * 0.02 cfs/ac =	<u>0.16 cfs</u>
theoretical rate	= <u>0.78 cfs</u>

F. VOLUME CALCULATIONS

1. Volume Calculations for Irrigation: Surface water right no volume calculated
2. Volume Calculations for Other Uses: N/A

G. NARRATIVE/REMARKS/COMMENTS

Historically there were two points of diversion from Second Fork of Squaw Creek in Sec 1 and/or Sec 2, one to the south and one to the north. Over the years only 2 Squaw Creek PODs existed but the actual points on the stream channel may have shifted because of spring floods and stream bank erosion. The shifting locations were scattered throughout Sec 2 SE1/4 and Sec 1 SW1/4. In 2010 in conjunction with the Forest Service, the two PODs were consolidated into a single POD that included a fish screen at the intake. The Sage Hen Reservoir rights identify the Sec 2 location as a redirection point. Decreed right 65-11248 and permits 65-13125 and 65-13144 also share that legal description. There is one point of diversion from Kimble Gulch where the north ditch crosses the gulch and that location has not changed over the years. That location is approximately 25 ft east of the boundary between Section 1 and 2, putting that POD in Section 1 NWSW.

The current system is a shared Point of diversion from Second Fork of Squaw Creek into a 10 inch pipeline that runs approximately 750 ft southwest where it then splits. There is a screw gate on the POD that can be locked if necessary which would be associated with all rights from this POD. The south segment continues in a pipeline to the south of Second fork of Squaw Creek to the Nesbitt property. The other leg discharges into an open ditch that stays on the north side of Second fork Squaw Creek and serves multiple rights.

That ditch crosses Kimble Gulch approximately 250 ft northwest of the fork in the ditch and about 25 ft east of Section 2. Basically Kimble Gulch ends in the ditch and no longer reaches Second fork of Squaw Creek unless there are flood conditions. Kimble Gulch was dry on the exam date.

NORTH DITCH SYSTEM

I measured the open ditch water just west of the north ditch Kimble Gulch juncture and found 2.45 cfs. At the points along that ditch further downstream that I observed, the ditch it was not quite at full capacity. The ditch continues west northwest to the POU for this right and beyond. The combined total of all rights associated with the diversion from Second Fork of Squaw Creek (including the permits is tentatively 1.97 cfs). This rate includes the four permits at the permitted rate and excludes the Sage Hen Reservoir storage rights as they are not delivered until after some or all of the rights can no longer be delivered.

SOUTH DITCH SYSTEM

At the split the south system goes into a 10 inch pipeline that crosses the creek and then continues east southeast for approximately one half mile to a pump system. The pump is a 10 HP Baldar and was operating at approximately 40 psi. Quentin Nesbitt estimated that the incoming pressure was around 5 PSI. Quentin provided a pump curve for this system

and the system design was for about 375 gpm or 0.84 cfs. There are 3 or 4 taps on the mainline upstream from the pump where water can be discharged onto 3 different small acreage pastures for flood irrigation. West of the pump the pipeline carries water to handlines that were operating 88 rainbirds the day of the exam. Quentin indicated that the heads produce approximately 4 gpm or a total of 352 gpm or 0.78 cfs.

Originally the 8 acres developed under this permit occurred by the applicant rerouting the last one half of the south ditch running it uphill by 40 to 50 ft. By raising the ditch the field could be extended nearly one quarter of a mile to the southwest of the field decreed through 65-3090. The permit identified the southwest development but the recommendation includes a portion of the ground developed between the two ditches in Sec 11 NENW. As this tract was not a part of the original permitted POU and an amendment is necessary.

The permit POD was listed as Section 2 SENESE. This point of diversion has been replaced by the shared POD as described above. I am recommending the current POD which will also require an amendment to change.

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

H. RECOMMENDATIONS

1. Recommended Amounts

<u>BENEFICIAL USE</u>	<u>PERIOD OF USE</u>	<u>DIVERSION RATE</u>	<u>ANNUAL VOLUME</u>
IRRIGATION	03/15 to 10/31	0.160 CFS	
<u>Totals:</u>		0.160 CFS	

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 ☐ Other

I. AUTHENTICATION

Field Examiner's Name Kelly K. Christensen Date 8-13-2012

Reviewer _____ Date _____

MEMO

KKC

FROM: Kelly K Christensen
TO: 65-13144, 65-13125, 65-22374, & 65-~~22374~~
SUBJECT: Measurement device requirement *22490*

I talked to Eric Herr (watermaster on Squaw Creek) regarding the shared delivery system for the four listed permits. The system historically has not had a measurement device as a part of the delivery system. He felt that a modified remark for future measurement would be acceptable. The point of diversion has a screw gate that can be set and locked as necessary.

Remark R43 (modified)

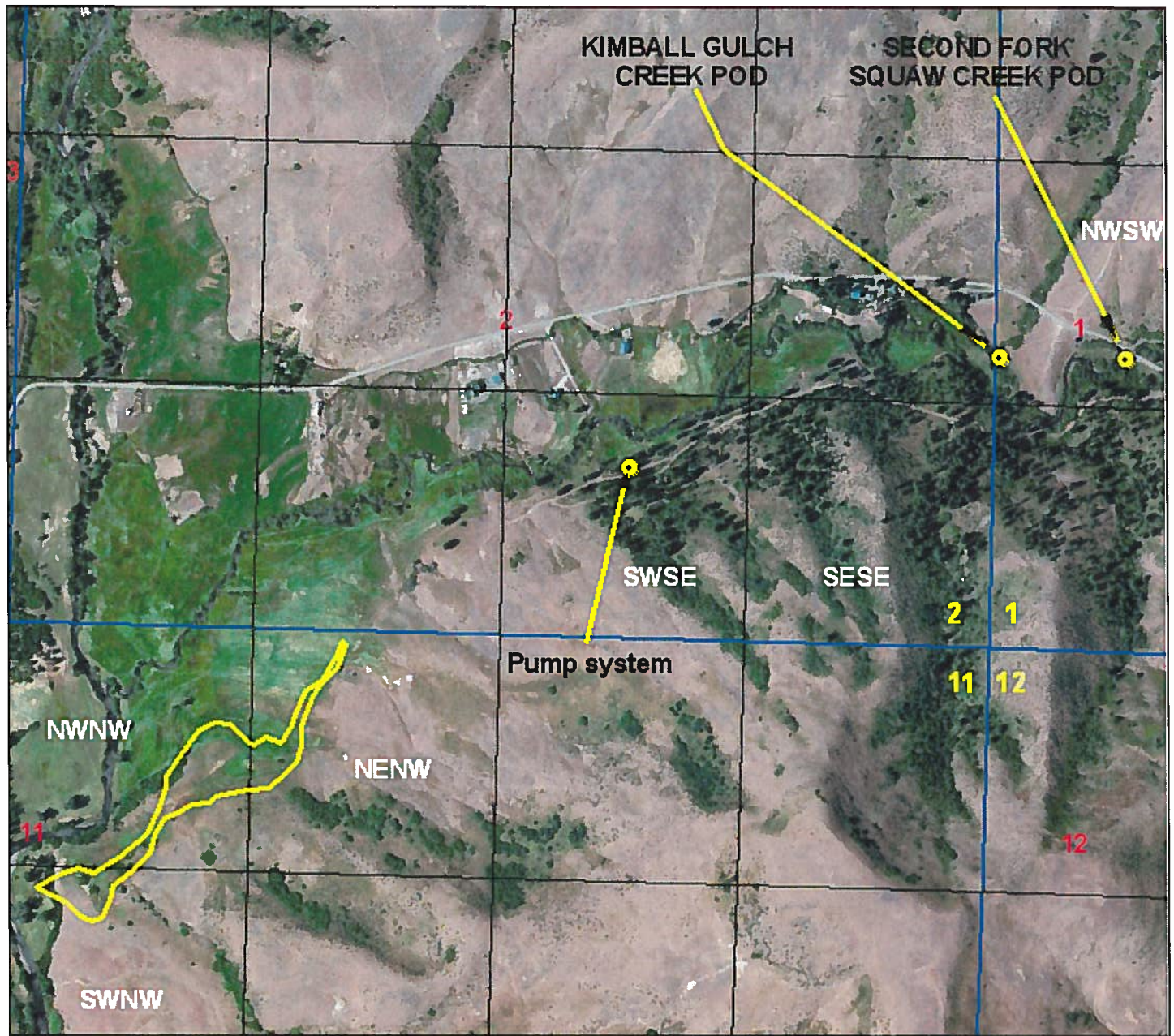
Upon notification by the Department the right holder shall maintain a measuring device and/or controlling works of a type approved by the Department in a manner that will provide the watermaster suitable control of the diversion(s).

*-OK
JR 9/6/12*

**SECOND FOR SQUAW CREEK AND/OR KIMBLE GULCH CREEK
POD OVERLAPPING RIGHTS FOR THE
FOUND PODS IN 11N, 1E, Sec 1 NWSW**

Right	Owner	status	POU	Historic diversion	Sources	*
65-13144	Nesbitt Ranches	Permit	South of 2 nd Fork	Sec 2 to the south	2 nd Fork Squaw Cr Amendment needed	.16 0.16
65-11248	Nesbitt Ranches	Decreed	South of 2 nd Fork	Sec 2 to the south	2 nd Fork Squaw Cr Amendment needed	.14
65-3090	Nesbitt Ranches	Decreed	South of 2 nd Fork	Sec 1 to the south	2 nd Fork Squaw Cr	.24
65-13125	Weaver O.L with 65-11257A	Permit	North of 2 nd Fork	Sec 2 to the north	2 nd Fork Squaw Cr Kimble Gulch Amendment needed	.09 0.03
65-7901	Weaver	Decreed	Dom/stock only		spring	
65-11257A	Weaver	Decreed	North of 2 nd Fork	Sec 1 to the north	2 nd Fork Squaw Cr Kimble Gulch	.02
65-22490	Miller	Permit	North of 2 nd Fork	Sec 1 to the north	2 nd Fork Squaw Cr Kimble Gulch	.08 0.06
65-22374	Howell / Myers	Permit	North of 2 nd Fork	Sec 1 to the north	2 nd Fork Squaw Cr Kimble Gulch	.08 0.08
65-11257C	Howell / Myers	Decreed	North of 2 nd Fork	Sec 1 to the north	2 nd Fork Squaw Cr Kimble Gulch	.02
65-11257B	Dale Nesbitt	Decreed	North of 2 nd Fork	Sec 1 to the north	2 nd Fork Squaw Cr Kimble Gulch	.04
65-3089A	Nesbitt Ranches	Decreed	North of 2 nd Fork, west of subdivision	Sec 1 to the north	2 nd Fork Squaw Cr	.94
65-3089D	Marx	Decreed	North of 2 nd Fork	Sec 1 to the north	2 nd Fork Squaw Cr	.05
65-3089E	Hyde	Decreed	North of 2 nd Fork	Sec 1 to the north	2 nd Fork Squaw Cr	.04
65-3089G	Dale Nesbitt	Decreed	North of 2 nd Fork	Sec 1 to the north		.07
South irrigation system						0.54 cfs
North irrigation system						1.43 cfs
System total						1.97 cfs
* rate shown in red is the recommended rate System total w/ modified permit rates						1.89 cfs
65-2925	Squaw Cr Irr Dist	Decreed	Sage Hen Reservoir		Shares PODs as rediversion	
65-2974	Squaw Cr Irr Dist	Decreed	Sage Hen Reservoir		Shares PODs as rediversion	

65-13144 LICENSING PLACE OF USE



0 660 1,320 2,640
Feet

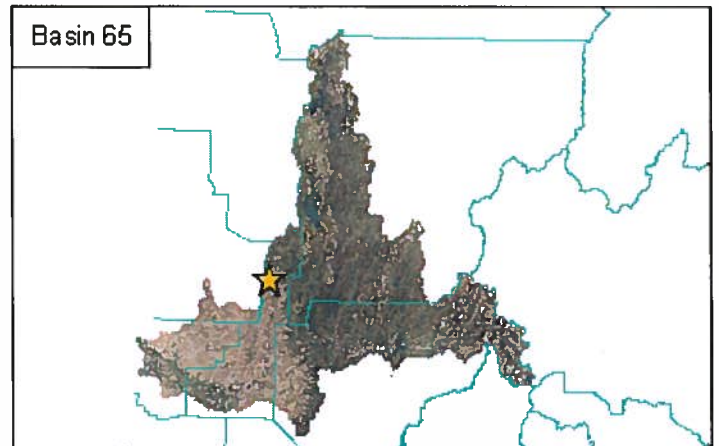
★ LOCATION IN BASIN

PLACE OF USE
TWP 11N, RNG 1E Sec 11
Data Entry on Aug 13, 2012



- Found point of diversion
- Found place of use
- Township lines
- Section lines
- Quarter/quarter lines

GIS PLACE OF USE PRESENTATION
2011 AERIAL PHOTOGRAPHY
BY KELLY K CHRISTENSEN



65-13144

EXAM DATE 7-20-12

AGENT KKC

FIELD EXAM MAP

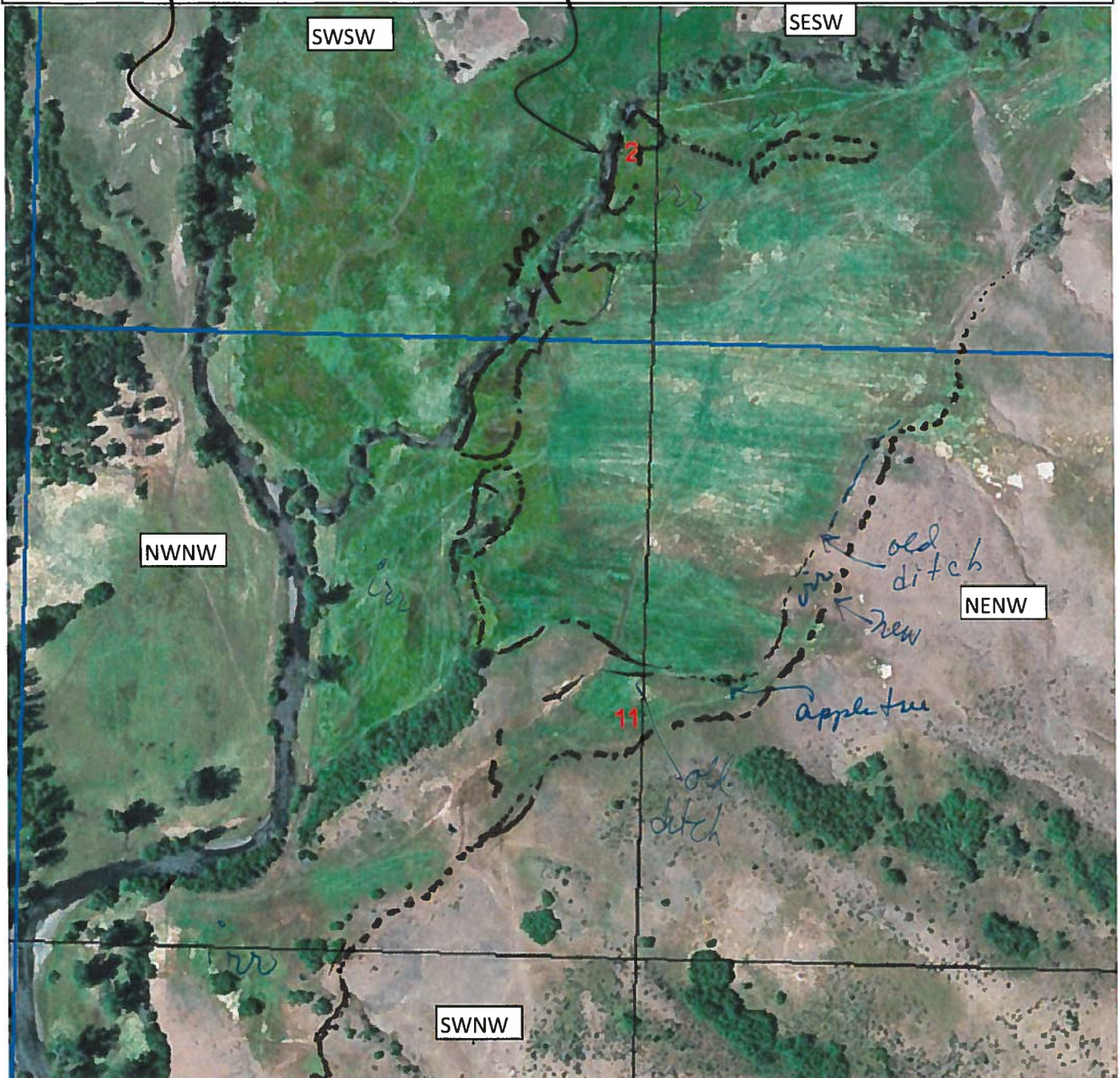
2011 AERIAL PHOTO

TWP RNG Sec

11N 1E 11

SQUAW CREEK

SECOND FORK SQUAW CREEK

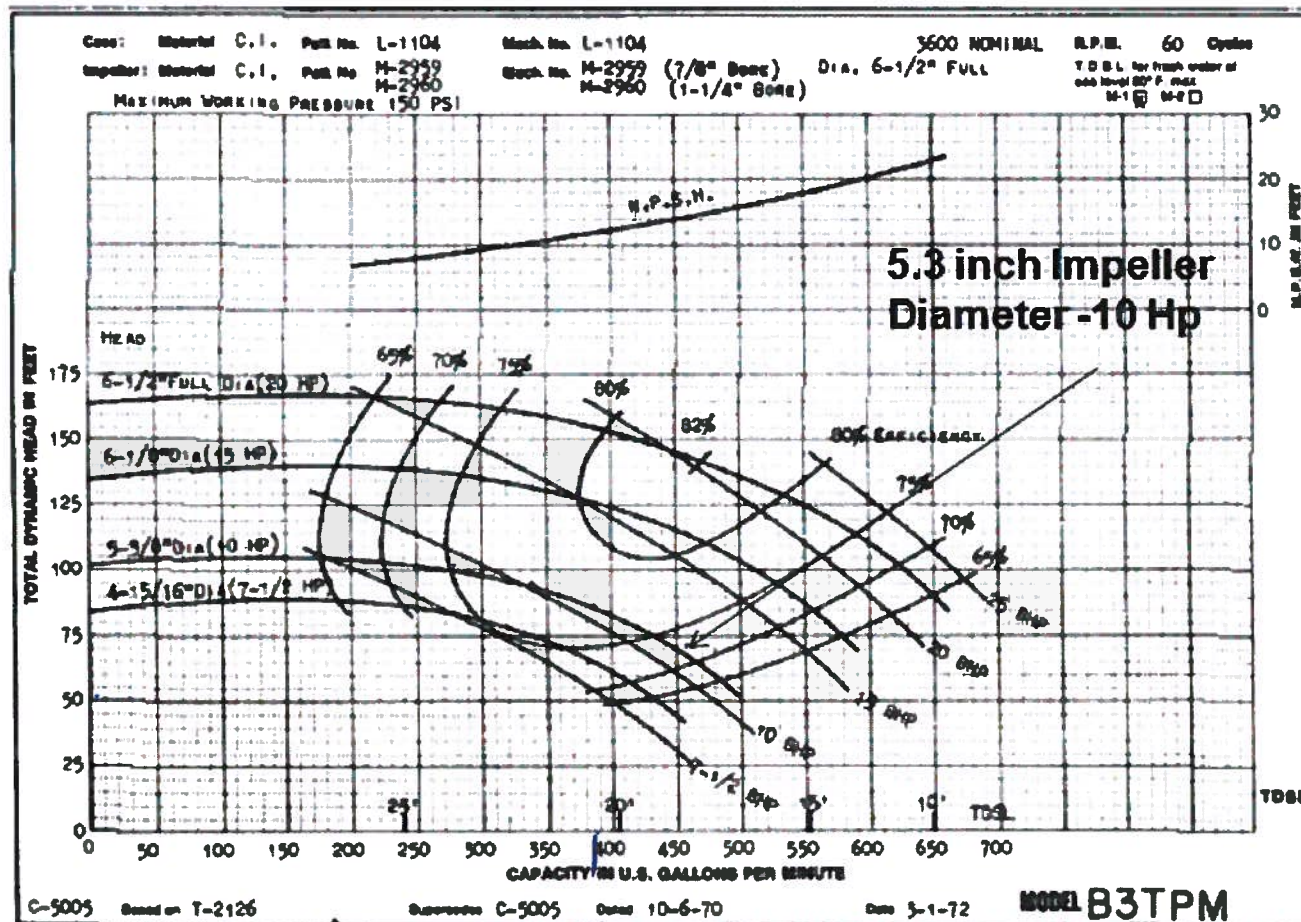




BERKELEY PUMP COMPANY

TYPE "B" RATING CURVES MOTOR DRIVE

CURVE	4075
DATE	10-9-79
PAGE	3.02
SUPERSEDES	
Curve 4075	Page 3.02
Dated 6-1-72	



From: Christensen, Kelly [<mailto:Kelly.Christensen@idwr.idaho.gov>]

Sent: Tuesday, July 31, 2012 10:57 AM

To: Nesbitt, Quentin

Subject: Permit 13144 subject to licensing

Attached is a clip of the proposed POU, a short narrative describing the basis for the shape and a clip of the POD and analysis. Ultimately the POD will have to be amended to reflect the found location but that can be done at a later date once the POU has been confirmed.

I measured 2.45 cfs and reviewing all rights associated with the system (excluding the storage rights) I found that they total 1.95 cfs. Therefore the system capacity is not a limiting factor. This 2.45 cfs does not include the pump system delivering water to the south. You indicated that you might be able to provide a pump curve for the pump. As the pump system includes a positive pressure on the intake side could you also indicate the pumping rate based upon this modification?

1 pic look NNE of riser on pipeline
going west Weaver's Prop in background

1 pic look W @ pump Nesbitt ship in Background

motor

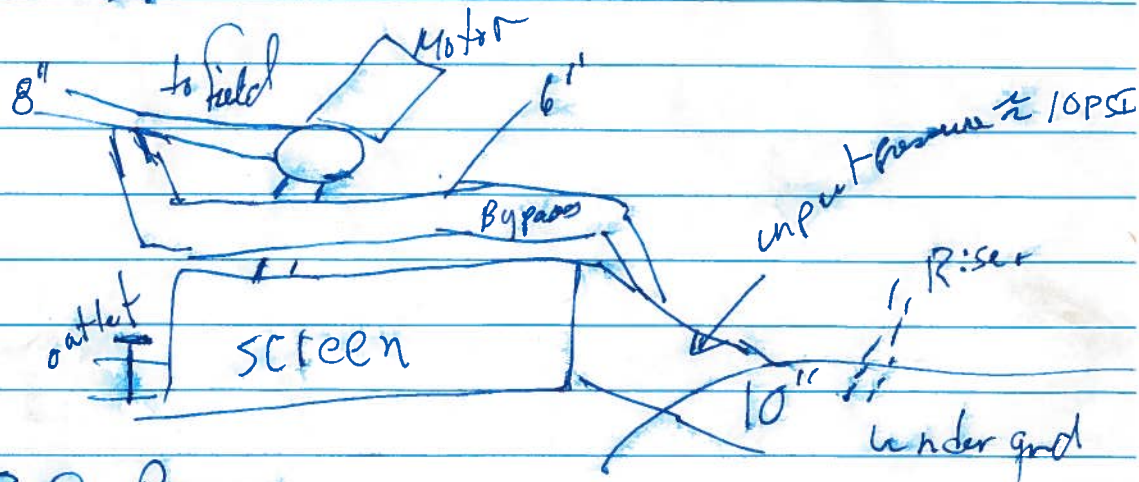
Berkley 33TPM

cent. 10HP 5375 impeller #

Motor Baldor 10 HP

F 0706282065

Pressure 37 PSI



GPS 3 @ Pump
Pic look N.

Exam date 7-20-12
 Agent KKC
NESBITT SOUTH DITCH

SHARED DITCH

KIMBLE GULCH

Aerial photo date 2011
 Twp Rng Sec QQ
 11N 01E 02 NESE
SQUAW CREEK

POINTS OF DIVERSION FOR MULTIPLE RIGHTS



1 Pic Look So. @ approx Location of OLD PoD
 1 Pic " SE @ first Saven
 2 Pic " " @ PoD. GfSaves on in that.

2nd Fork Squaw Cr

SECOND FORK OF SQUAW CREEK AND KIMBLE GULCH DIVERSION SYSTEM

Multiple rights including Squaw Creek Irrigation District storage rights

FIELD EXAM 7-20-2012

BY Kelly K Christensen

Photo 1

This photo is looking east southeast at the POD structure. The water goes into a 10" pipeline approximately 750 ft to where the system splits with a pipeline going across (south) of 2nd Fork of Squaw Creek to eventually reach the POU for 65-13144 and the other leg going into an open ditch and the irrigated ground north of 2nd Fork. The ditch also is utilized for the delivery of the storage water from Sage Hen Reservoir. Close-up of the fish screen



Photo 3

This photo is ≈ 250 ft west of the current POD where the river bends to the south. You are looking south in this photo. This was the approximate location of the original POD with the ditch (and now the pipeline location) paralleling the river to the right.

Old ditch and current pipeline



Photo 4

This photo is looking west at the measurement location for the north POU system. This point is ≈ 250 ft downstream from the ditch system split described in photo 1. This location is also just downstream from where Kimble Gulch enters the ditch. Kimble Gulch water does not enter the pipeline going to the south. Kimble Gulch was dry on this date. The fence in the background is on the quarter/quarter line. Pictured is the department's broad crested flume which is measuring the north system only. I found 20.4 on the staff gage which equates to 2.45 cfs. The ditch below this point was near but not at full capacity.

Fence

Kimble Gulch



Christensen, Kelly

From: Nesbitt, Quentin [QNesbitt@idahopower.com]
Sent: Monday, July 30, 2012 11:44 AM
To: Christensen, Kelly
Subject: RE: Points of diversion

*Kelly,
See answers in blue,*

Now there is one point of diversion for both the north and south of 2nd Fork. *Yes, and hopefully it will stay that way.*

There was the POD approximately 250 ft downstream from the current location. *Yes* I want to confirm that that point of diversion was tied to the north ditch only. *Originally, Yes* Also can water from that ditch be diverted to the south of 2nd Fork below the actual diversion points? *Yes*

The second diversion as I recall was near the current system split and that diversion as I understood it was to divert water to the south of 2nd Fork only. *Correct* Some information also suggests that that location also diverted water into the north ditch system. *Not originally but they were not that far apart, maybe same ¼ ¼ .*

Hope this helps

Quentin

From: Christensen, Kelly [<mailto:Kelly.Christensen@idwr.idaho.gov>]
Sent: Monday, July 30, 2012 10:01 AM
To: Nesbitt, Quentin
Subject: Points of diversion

I need to make sure I understand the historical diversion(s) from 2nd Fork.

Now there is one point of diversion for both the north and south of 2nd Fork.

There was the POD approximately 250 ft downstream from the current location. I want to confirm that that point of diversion was tied to the north ditch only. Also can water from that ditch be diverted to the south of 2nd Fork below the actual diversion points?

The second diversion as I recall was near the current system split and that diversion as I understood it was to divert water to the south of 2nd Fork only. Some information also suggests that that location also diverted water into the north ditch system.

I am working on the 4 permits and should have some information put together for your input by next week.

Kelly



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Christensen, Kelly

From: Nesbitt, Quentin [QNesbitt@idahopower.com]
Sent: Wednesday, August 01, 2012 1:56 PM
To: Christensen, Kelly
Subject: RE: Permit 13144 subject to licensing

Kelley,

Here is the pump curve. It is a 10 Hp and the Impeller is a 5.3 inches(which puts it just under the 5 & 3/8 inch curve line. At typical operating pressure of 40 psi with 5 psi coming in puts it at about 375 gpm. There are 88 nozzles at approximately 4 gpm per nozzle. $(88 \times 4 = 352 \text{ gpm})$

Can you do a overlay to show where the 1.95 cfs is supposed to be as far as place of use? I thought the permit was for 14 acres and there is are more actress in the sw of nw of sect 11 that maybe covered under another water right?(just off the edge of the aerial that you sent) But I am not sure.

Quentin

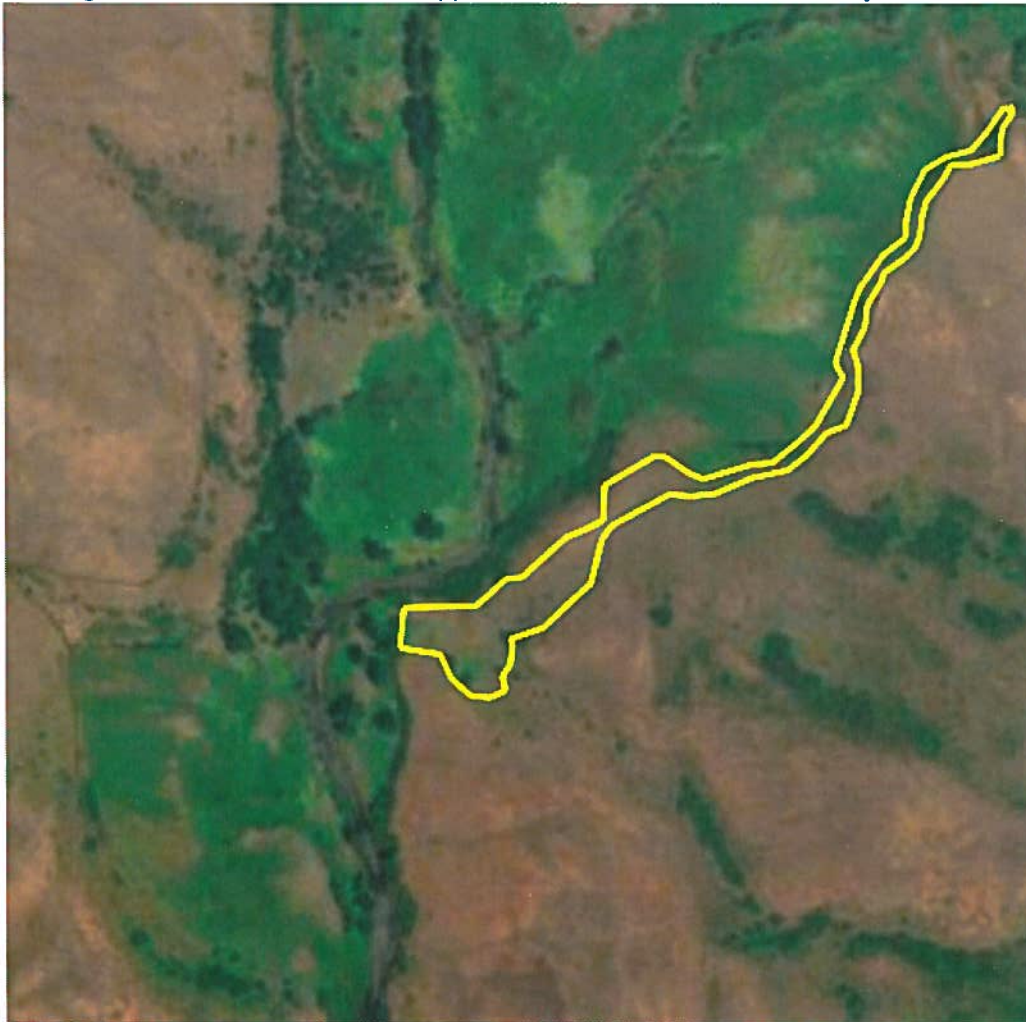
Christensen, Kelly

From: Nesbitt, Quentin [QNesbitt@idahopower.com]
Sent: Monday, October 17, 2011 4:05 PM
To: Christensen, Kelly
Subject: RE: Homer Nesbitt

Kelley,

Good to hear from you again, I knew this was an issue that still was not resolved. I will try to shed some light but I do think we may need to meet. The intent of the extra permit at the time was to extend the ditch farther than it originally went from the 1918 ditch. This was done and has been used that way for a long time. It only shows up green in a few areas because it is fairly steep and has not been hayed like the other ground, but you can see where the newer versus old ditch was. There is approximately 8 acres. See the attached map of the ditch extension(my yellow line is not perfect, but you can get the general idea).

As far as other ground that is irrigated, there are areas that the water goes through that have always been irrigated off the original ditches but were not cropped so were not included in the adjudication.



Anyway, feel free to call me anytime and we can set up a time to meet and get this resolved.

Quentin Nesbitt
388-2519

From: Christensen, Kelly [<mailto:Kelly.Christensen@idwr.idaho.gov>]
Sent: Monday, October 17, 2011 1:07 PM
To: Nesbitt, Quentin
Subject: RE: Homer Nesbitt

By way of introduction, I started with the department in 1988 as a summer field examiner and rode with you on several training exams in the general Bruno area. It was also roughly the same time when you were working up north where you drove several miles down a county road with your field exam brief case in the back of the pickup, tipped over, and with individual field exam pages fluttering across the landscape.

I am working on permit 65-13144, an irrigation right for 8 acres from 2nd Fork Squaw Creek. The priority date is Feb 14, 1990. See the attachment for a visual on the location.

A field exam was conducted on 8-11-1993 and the exam was written up but placed on hold until the overlapping rights could be determined post adjudication decrees. This has been done for some time and I am now going back to this right to finalize the recommendation. As a side note, in the field notes the examiner indicates that Homer was unable to identify which 8 acres should be recognized through this right.

I have not personally viewed the property and there may be green areas that lay north and south of the POU for 65-3090 that is irrigated but was not recognized through the adjudication process. I would also like to discuss the area north of that same shape. Otherwise, I would hold the position that all of the irrigated ground within the claimed POU and from the 2nd Fork Squaw Creek has been recognized at 1 inch per acre through either 65-11248 or 65-3090. At this level of review I am not considering any overlapping issues with Squaw Creek Irrigation District storage water. That issue would be addressed through remarks during the licensing process if this permit reaches that level.

I have also attached a clip from Google showing a close up of the area in question with the rough approximation of the southern POU irrigation boundary. I can see approximately 2.5 acres south of the shape and 3 acres to the north that are possibly irrigated but not a part of any decreed water rights held by Homer.

Depending upon the ultimate outcome for the POU an amended claim may be necessary to include 40-acre tracts that are currently not a part of the permitted POU.

Kelly

From: Nesbitt, Quentin [<mailto:QNesbitt@idahopower.com>]
Sent: Monday, October 17, 2011 7:17 AM
To: Christensen, Kelly
Subject: RE: Homer Nesbitt

That is correct.

From: Christensen, Kelly [<mailto:Kelly.Christensen@idwr.idaho.gov>]
Sent: Thursday, October 13, 2011 7:48 AM
To: Nesbitt, Quentin
Subject: Homer Nesbitt

I am assuming that you are Homer's son, you know, the one who used to work for the dept of water resources many years ago. If so, I would like to touch bases with you regarding a water right permit north of Ola.

Kelly K Christensen



GENERAL INFO

Wen

NAME: Homer Nesbitt

PERMIT #: 65-13144

PHONE #: 584-3550

CASING:

HP:

DYNAMIC:

STATIC:

DEPTH:

PSI:

ACRES IRRIGATED: 8

SPRINKLER INFO: - Gravity - Ditch for Flood Irrigation

LATERALS:

SIZE:

LENGTH:

STOCK:

DOMESTICS:

OTHER USES:

OTHER RTS:

DIRECTIONS:

12 miles north of Dlx.

3rd Fork left

Nesbitt Lane - ~~Turn~~ 1st Home on Left

- 1993 FIBER Exam NOTES

- WSC 2012 Report for Licensing

- JL 9/6/12

EXAM DATE:

Thurs. 8/5 8/11 10:30

STATE OF IDAHO
DEPARTMENT OF WATER RESOURCES

Staff Analysis Sheet
for
Beneficial Use Field Report

A. Prior to Conducting the Exam, the File Contains:

- ☒ Blank Field Report Form
- ☒ Copy of Permit
- ☒ Copies of any Amendments/Orders with Conditions of Approval
- N/A Well Inspection Form (If Needed)
- N/A Aerial Photo Required? ☐ yes ☒ no If yes: ☐ copy attached
- N/A SRBA Attachment A Submitted to Adjudication Section
- SRBA Claim Check Received _____ (initial & date)
- ☒ N/A ☐ Applicable, See Attachment A _____
- ☒ Copy of U.S.G.S. Quad
- ☒ Check for Government Lots. If so, make a copy of government plat
- ☒ Check of P/D index RC 7/21/93 (initial & date)
- Overlap ☒ yes ☐ no If yes: ☐ copy of exam(s) attached?
- Type of Overlap? ☐ Add acres or uses to existing system
- ☐ Increase rate of flow or volume
- ☒ Other: Some DR. different P/D
- ☒ Check of P/U index RC 7/21/93 (initial & date)
- Overlap? ☒ yes ☐ no If yes: ☐ copy of water right(s) attached?
- Type of Overlap? ☐ Increase rate of flow or volume
- ☒ Add P/D's
- ☐ Increase number of acres within tracts
- ☐ Other: _____
- ☒ Scheduling Letter Sent? RC 7/29/93 (initial & date)
- ☒ Appointment Made and Telephone Conversation Memo Attached

B. After Conducting the Exam, the File Contains:

- ☒ Fully Completed and Signed Field Report Form
- ☒ Photographs of Point of Diversion and Place of Use
- N/A Copy of SRBA Claim Verification Sheet / ☐ Original Returned to Adjudication Section

C. Review and Processing:

Exam Completed Rick Collingwood 8/19/93 (signature of examiner & date)

Exam Reviewed by Senior Water Resource Agent _____ (initial & date)

Exam Reviewed by Manager of Regional Office _____ (initial & date)

Exam Sent to State Office _____ (initial & date)

Nesbitt

Weir measurement (Cippoletti) - 2.2"

Small ditch floods into pasture - more than 8 acres

Can control near weir measurement

Dams with rock & dirt

Permit No. 65-13144

Current Address: HC 78 BOX 3761, OLA, ID 83657

Address: SAME Phone No. SAME

Relationship to Permit Holder: Applicant

3. Source: Squaw Creek, Second Fork tributary to Squaw Creek

1. Other water rights with the same place of use: many - see overlap sheet

2. Other water rights with the same point of diversion: many - see overlap sheet

1. Point(s) of Diversion:

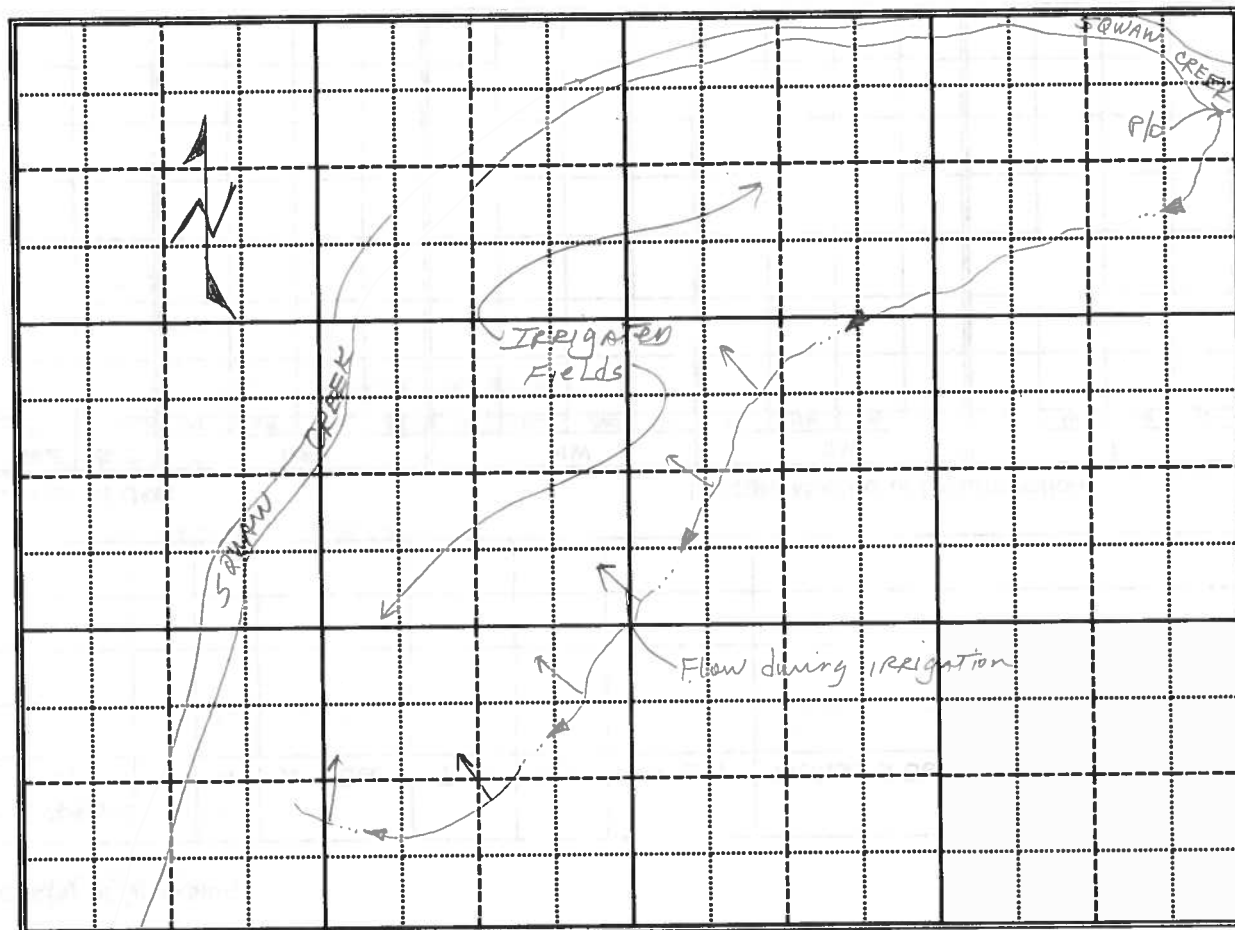
[illegible]

2. Place(s) of Use:

Indicate Method of Determination *Same AS P/O*

[illegible]

3. **Delivery System Diagram:** Indicate all major components and distances between components. Indicate weir size/ditch size/pipe I.d. as applicable.



Scale: 1" = NTS

☒ 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. N/A

Well or Diversion Identification No.*	Motor Make	Hp	Motor Serial No.	Pump Make	Pump Serial No. or Discharge Size

*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
Cipolletti Weir						

2. Measurements: Q = 0.258 CFS (Table 2)

E. NARRATIVE/REMARKS/COMMENTS

OVERLAPS- P/D - Same QB, various sources and different P/D's.

p/u - Same QB, different areas of use.

Water from Squaw Creek is diverted by hand made irrigation ditch. When no irrigation is needed, P/D is filled with dirt and rock. This control is manually damming and undamming the P/D. The irrigation Traverses along the hillside and above the irrigated field(s). The ditch is dammed to propagate flood irrigation. The actual 8 acres was not known by Mr. Nesbitt, but the areas irrigated by this system was greater than 8 acres.

A Cipolletti weir was installed near the P/D. A flow head of 2.2" was measured, indicated a flow of 0.258 CFS, which is greater than the requested allocation of 0.16 CFS. Therefore, recommend Licensing for 0.16 CFS for irrigation of 8 acres as requested.

Note: A permanent weir would be beneficial here to aid in regulating flow, since 0.258 CFS is much more water than is needed.

Have conditions of permit approval been met? ☒ yes ☐ no

F. FLOW CALCULATIONS

____ Additional Computation Sheets Attached

Measured Method:

Cipolletti Weir - Head = 2.2"
Q = 0.258 cfs

G. VOLUME CALCULATIONS

1. Volume Calculations for Irrigation:

$$V_{I.R.} = (\text{Acres Irrigated}) \times (\text{Irrigation Requirement}) = 8 \times 3.0 = 24.0 \text{ AFA}$$

$$V_{D.R.} = [\text{Diversion Rate (cfs)}] \times (\text{Days in Irrigation Season}) \times 1.9835 = 0.16 \times 184 \times 1.9835 = 58.4 \text{ AFA}$$

$$V = \text{Smaller of } V_{I.R.} \text{ and } V_{D.R.} = 24.0 \text{ AFA}$$

2. Volume Calculations for Other Uses: N/A

H. RECOMMENDATIONS

1. Recommended Amounts

Beneficial Use	Period of Use		Rate of Diversion Q (cfs)	Annual Volume V (afa)
	From	To		
IRRIGATION	4/1	10/1	0.16	24.0
Totals:			0.16	24.0

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 ____ Other

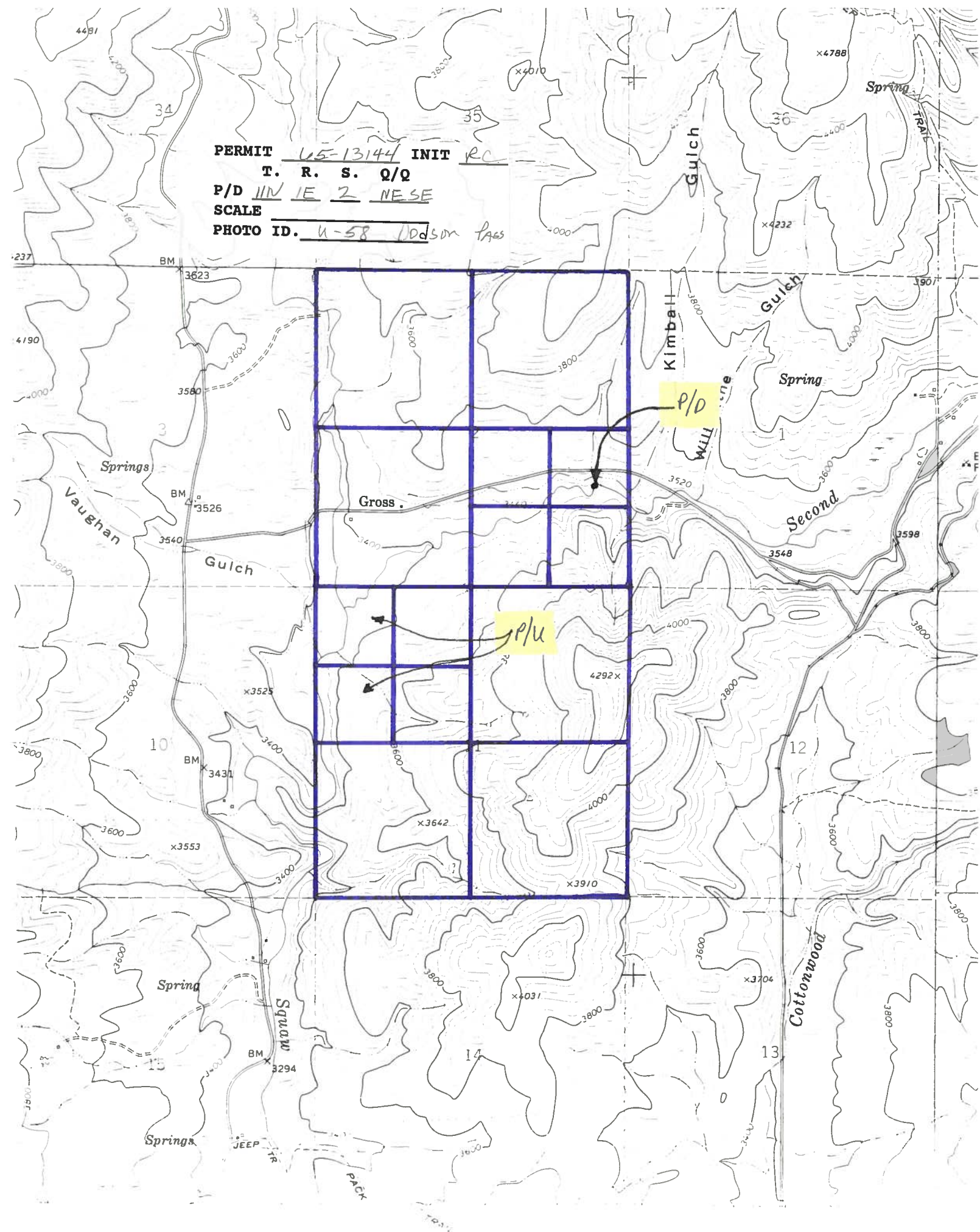
I. AUTHENTICATION

Field Examiner's Name Rick Collingwood Date 8/19/93

Reviewer _____ Date _____

SEAL

PHOTO ID. u-58 Dodson Page



IN RIE

bitt Lane

6F
75

186

24

12

EK



PHOTO ONE-

Point of diversion from Squaw Creek.



PHOTO TWO-

Cipolletti Weir installed just below point of diversion.



PHOTO THREE- View northerly of pasture which is flood irrigated from small irrigation ditch. The clump of small trees or bushes to the right is approximate location of small ditch.



PHOTO FOUR- View northeast of section of ditch leading south.