

STATE OF IDAHO
DEPARTMENT OF WATER RESOURCES
BENEFICIAL USE FIELD REPORT

A. GENERAL INFORMATION

Permit No: 75-7429

Exam Date: 10/3/2012

1. Current Owner: ANDREW B OHL
6 CHEROKEE LN
SALMON ID 83467
2. Accompanied by: Andrew Ohl
Phone No: (208)756-4148
Address: 6 Cherokee Lane, Salmon Idaho
Relationship to Permit Holder: current land owner
3. SOURCE TRIBUTARY
SALMON RIVER SNAKE RIVER

B. OVERLAP REVIEW

1. Other water rights with the same place of use: 75-38B, 75-4197, 74-4197B and 75-4197B
2. Other water rights with the same point of diversion: 74-4197, 74-4197B and 75-10980

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

SALMON RIVER NE1/4SE1/4 Sec. 31, Twp 21N, Rge 22E, B.M. LEMHI County

Method of Determination: Visual Inspection

2.

<u>PLACE OF USE:</u>			IRRIGATION																
Twp	Rge	Sec	NE				NW				SW				SE				Totals
21N	22E	18	<u>NE</u>	<u>NW</u>	<u>SW</u>	<u>SE</u>	<u>NE</u>	<u>NW</u>	<u>SW</u>	<u>SE</u>	<u>NE</u>	<u>NW</u>	<u>SW</u>	<u>SE</u>	<u>NE</u>	<u>NW</u>	<u>SW</u>	<u>SE</u>	
																	11.0	1.0	12.0
Total Acres:		12																	

Method of Determination: GIS Mapping and Visual Inspection.

3. YES Delivery System Diagram Attached (required). Indicate all major components and distances between components. Indicate weir size/pipe as applicable.
- YES Map Attached Showing Location(s) of point(s) of diversion and place(s) of use (required). Scale must be 1:24,000 or greater.
- YES Aerial Photo Attached
- YES Photo of Diversion and System Attached

4.

<u>Well or Diversion</u>	<u>Motor Make</u>	<u>Hp</u>	<u>Motor Serial No.</u>	<u>Pump Make</u>	<u>Pump Serial No. or Discharge</u>
<u>ID No.*</u>					<u>Size</u>

D. FLOW MEASUREMENTS

1.

Measurement Equipment	Serial #	CPU Firmware
Flow Tracker	P2317	3.5

E. FLOW CALCULATIONSX Additional Computation Sheets Attached

2. Measurements: Measurement method: Flow Tracker – see attached printout

Measured amount = 0.42 cfs

The permit allows 0.24 cfs

12 acres X .02 = 0.24 cfs

Total recommend amount: 0.24 cfs**F. VOLUME CALCULATIONS**

1. Volume Calculations for Irrigation:

$$V_{I.R.} = (\text{Acres Irrigated}) \times (\text{Irrigation Requirement}) = 12 \times 3.5 = 42$$

$$V_{D.R.} = [\text{Diversion Rate (cfs)}] \times (\text{Days in Irrigation season}) \times 1.9835 = 0.24 \times 214 \times 1.9835 = 101.87$$

$$V = \text{Smaller of } V_{I.R.} \text{ and } V_{D.R.} = 42$$

Recommended volume: 42 AF

2. Volume Calculations for Other Uses: n/a

G. NARRATIVE/REMARKS/COMMENTS

Water diverted from the Salmon River at T 21N R22E Sections 31 NESE supplies water for 12 acres. The irrigated fields are approximately 3 miles north of the point of diversion. Ditches provide flood water for between 3 and 8 acres on the south side of the property. Dams placed in the ditch allow water to flood irrigate, and provide subsurface irrigation, on both the east and west sides of the ditch.

Water flows further north to a mainline diversion. Two parallel ditches supply water to a pump roughly 80 feet to the west of the ditches. The Runsten-Minzer Ditch Company supplies for 2 acres of the property through the 75C (also known as the 3K) ditch. The pump supplies water through a mainline that runs east/west. Handlines irrigate the land to the east and north of the house.

The field exam took place in October of 2012. The Ohls did not irrigate during the summer of 2012.

Have conditions of permit approval been met? X 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	4/01 to 11/01	0.240 CFS	42 AF
	<u>Totals:</u>	0.240 CFS	42 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 ☐ Other

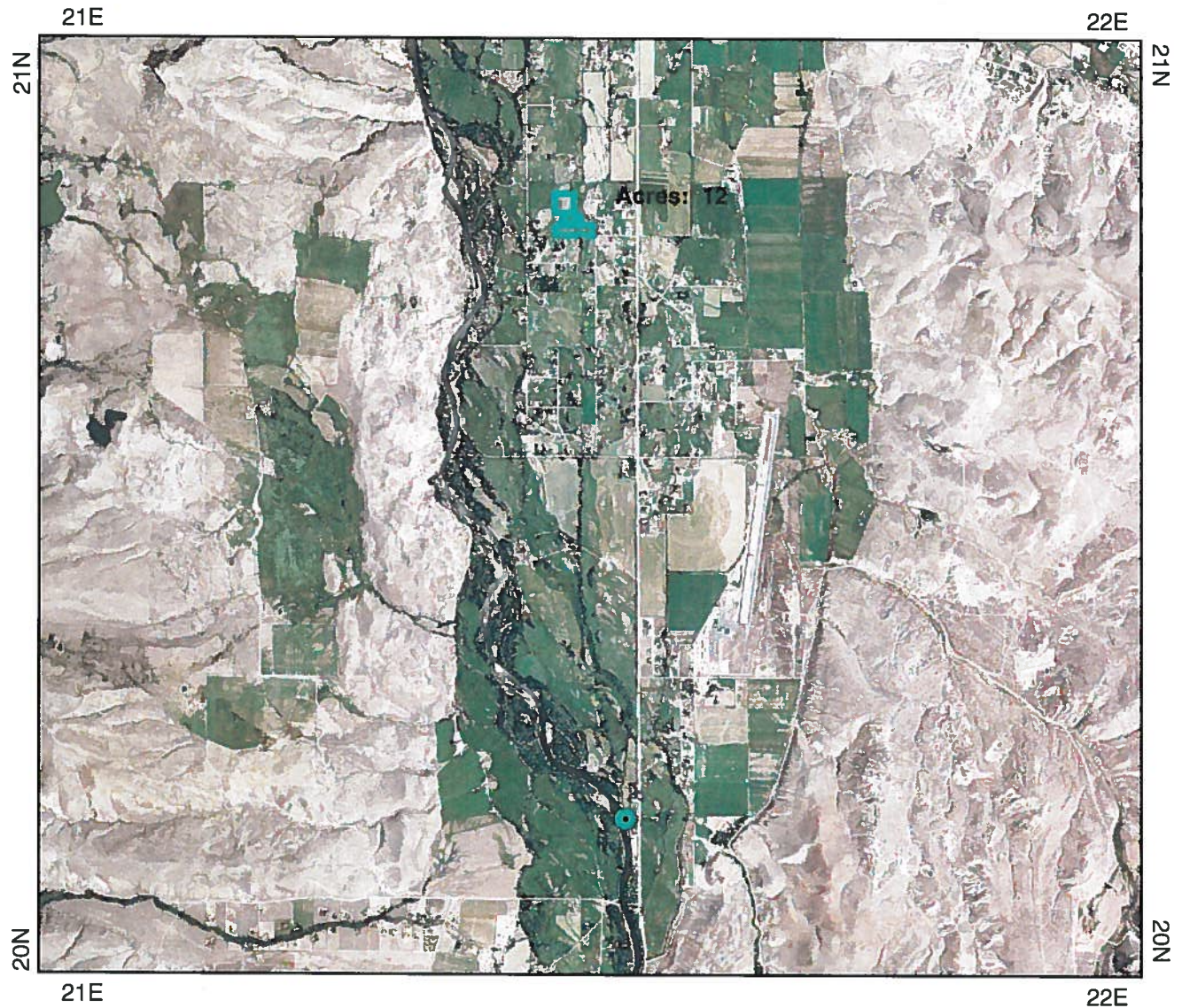
I. AUTHENTICATION

Field Examiner's Name Samuel Threl Date 9/20/2013

Reviewer _____ Date _____

State of Idaho
Department of Water Resources
Water Right License
75-7429

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.

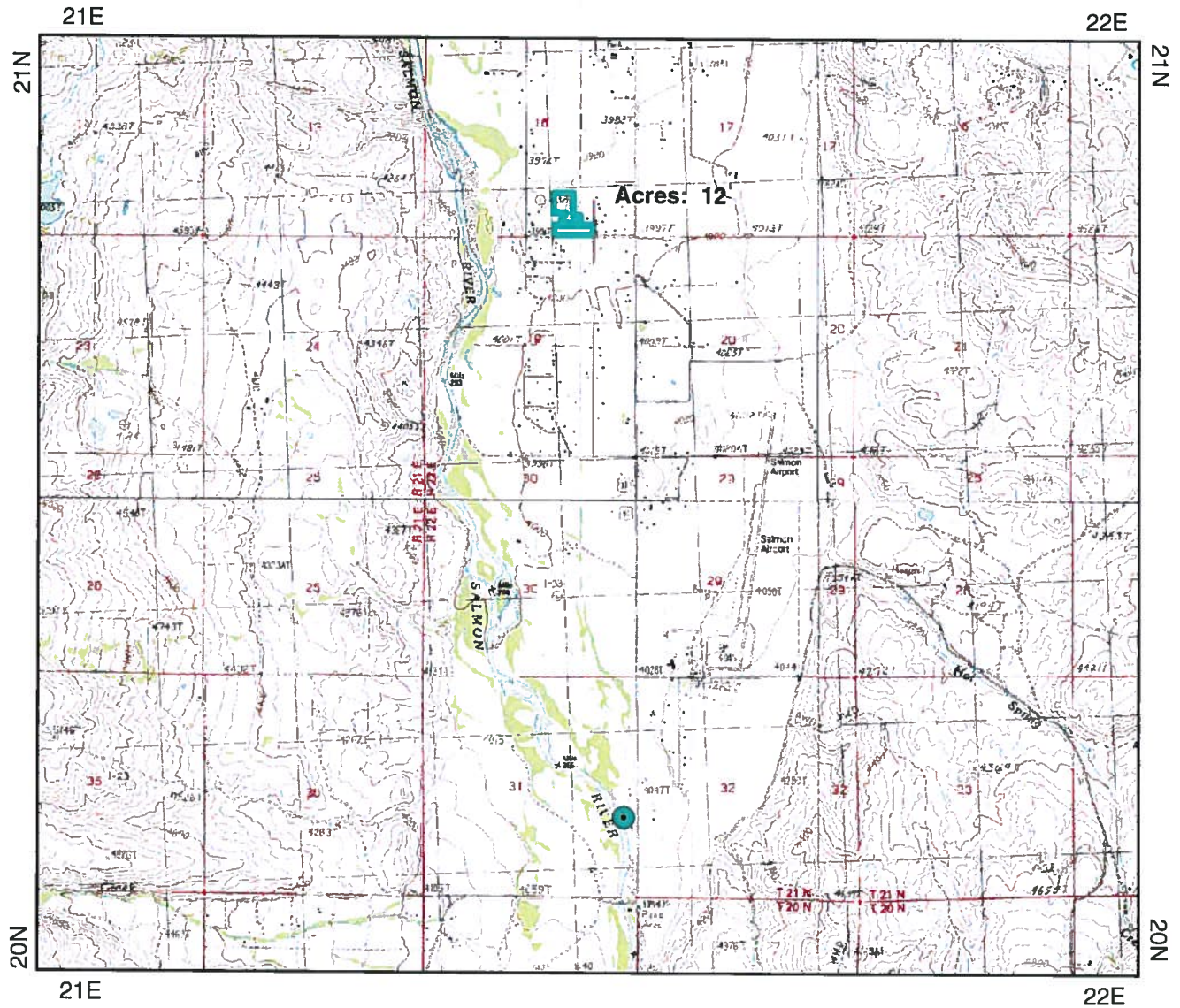


- Point of Diversion
- ▭ Place Of Use Boundary



State of Idaho
Department of Water Resources
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- Point of Diversion
- Place Of Use Boundary



System Diagram for Water Right 75-7429



Water diverted from the Salmon River at T 21N R22E Sections 31 NESE supplies water for 12 acres (shown above in red). The irrigated fields are approximately 3 miles north of the point of diversion. Ditches (blue lines) provide flood water for between 3 and 8 acres on the south side of the property. Dams placed in the ditch allow water to flood irrigate, and provide subsurface irrigation, on both the east and west sides of the ditch.

Water flows further north to a mainline diversion. Two parallel ditches supply water to a pump roughly 80 feet to the west of the ditches. The Runsten-Minzer Ditch Company supplies for 2 acres of the property through the 75C or 3K ditch. The pump supplies water through a mainline that runs east/west. Handlines irrigate the land to the east and north of the house.

MEMORANDUM

TO: Water Rights File 75-7429
FROM: Sandra Thiel
DATE: September 19, 2013
SUBJECT: Phone conversation with Virginia Perry

I called Virginia Perry to ask about Andrew Ohl's shares from the Kane Ramey Ditch Company. Mrs. Perry represents the Runsten-Minzer Ditch Company. She said that the Ohl's don't receive water from the Kane Ramey Ditch. They do have shares in the 75C or 3K ditch under the Runsten-Minzer Ditch Co. Mrs. Perry said that they assess by acres rather than shares and that Mr. Ohl has water for 2 acres.

Discharge Measurement Summary

Date Generated: Fri Oct 26 2012

File Information

File Name 757429.WAD
Start Date and Time 2012/10/03 11:47:17

Site Details

Site Name
Operator(s) SBT

System Information

Sensor Type FlowTracker
Serial # P2317
CPU Firmware Version 3.5
Software Ver 2.30
Mounting Correction 0.0%

Units (English Units)

Distance ft
Velocity ft/s
Area ft²
Discharge cfs

Discharge Uncertainty

Category	ISO	Stats
Accuracy	1.0%	1.0%
Depth	0.7%	5.5%
Velocity	2.5%	25.9%
Width	0.2%	0.2%
Method	3.6%	-
# Stations	3.9%	-
Overall	6.0%	26.5%

Summary

Averaging Int.	40	# Stations	13
Start Edge	LEW	Total Width	3.100
Mean SNR	22.6 dB	Total Area	0.873
Mean Temp	14.00 °F	Mean Depth	0.281
Disch. Equation	Mid-Section	Mean Velocity	0.4787
		Total Discharge	0.4177

Measurement Results

St	Clock	Loc	Method	Depth	%Dep	MeasD	Vel	CorrFact	MeanV	Area	Flow	%Q
0	11:47	1.40	None	0.000	0.0	0.0	0.0000	1.00	0.0000	0.000	0.0000	0.0
1	11:47	1.80	0.6	0.300	0.6	0.120	1.4423	1.00	1.4423	0.090	0.1298	31.1
2	11:50	2.00	0.6	0.300	0.6	0.120	1.5302	1.00	1.5302	0.060	0.0918	22.0
3	11:51	2.20	0.6	0.400	0.6	0.160	1.3481	1.00	1.3481	0.080	0.1079	25.8
4	11:52	2.40	0.6	0.400	0.6	0.160	-0.0085	1.00	-0.0085	0.080	-0.0007	-0.2
5	11:54	2.60	0.6	0.400	0.6	0.160	0.5778	1.00	0.5778	0.080	0.0462	11.1
6	11:55	2.80	0.6	0.400	0.6	0.160	-0.0043	1.00	-0.0043	0.080	-0.0003	-0.1
7	11:57	3.00	0.6	0.400	0.6	0.160	0.5115	1.00	0.5115	0.080	0.0409	9.8
8	11:58	3.20	0.6	0.400	0.6	0.160	0.0692	1.00	0.0692	0.080	0.0055	1.3
9	12:00	3.40	0.6	0.300	0.6	0.120	-0.0026	1.00	-0.0026	0.060	-0.0002	0.0
10	12:02	3.60	0.6	0.350	0.6	0.140	-0.0141	1.00	-0.0141	0.070	-0.0010	-0.2
11	12:03	3.80	0.6	0.250	0.6	0.100	-0.0207	1.00	-0.0207	0.112	-0.0023	-0.6
12	12:03	4.50	None	0.000	0.0	0.0	0.0000	1.00	0.0000	0.000	0.0000	0.0

Rows in italics indicate a QC warning. See the Quality Control page of this report for more information.

Discharge Measurement Summary

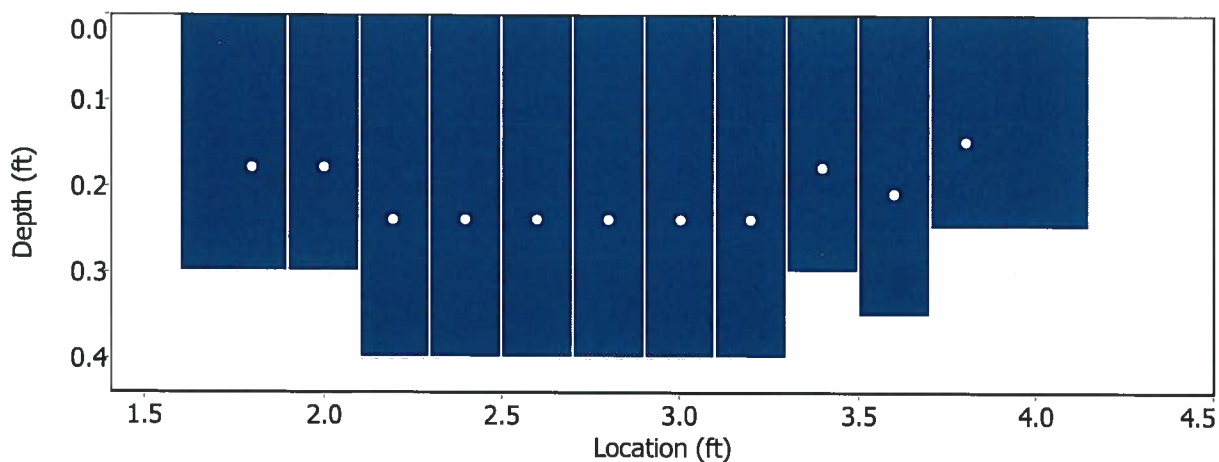
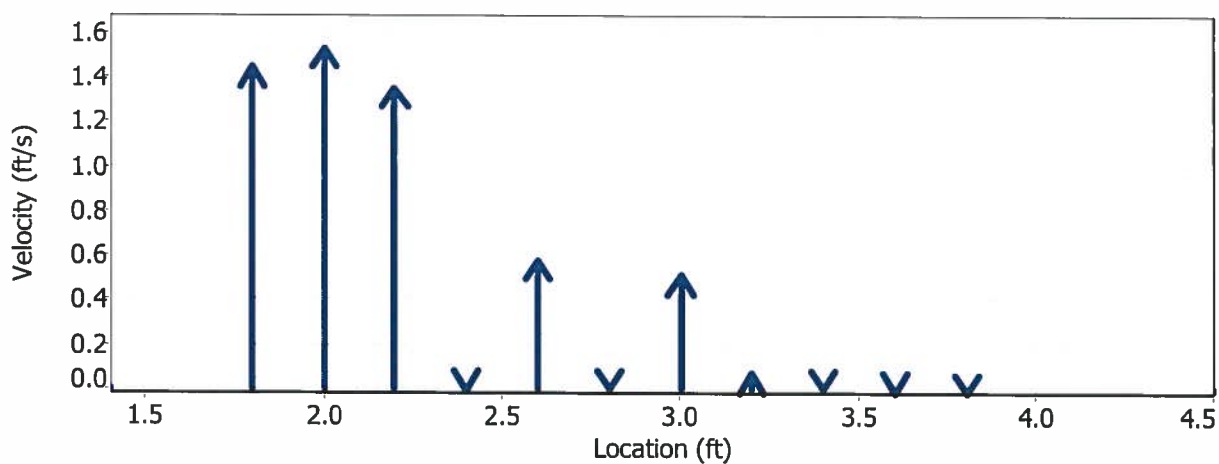
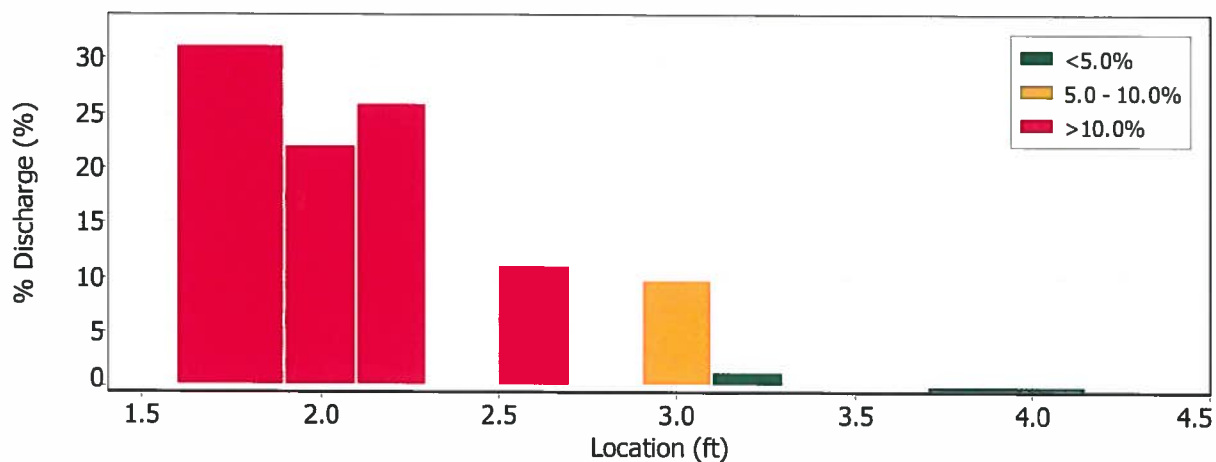
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Site Details

Site Name
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Site Details

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Quality Control

St	Loc	%Dep	Message
5	2.60	0.6	High standard error: 0.075
6	2.80	0.6	High SNR variation during measurement: 6.5,8.2
7	3.00	0.6	High standard error: 0.044
8	3.20	0.6	High angle: 66
		0.6	Boundary QC is Fair; possible boundary interference
9	3.40	0.6	SNR (42.1) is different from typical SNR (22.6)
		0.6	High SNR variation during measurement: 2.6,8.2
11	3.80	0.6	High angle: 180
		0.6	Boundary QC is Fair; possible boundary interference

Discharge Measurement Summary

Date Generated: Fri Oct 26 2012

File Information

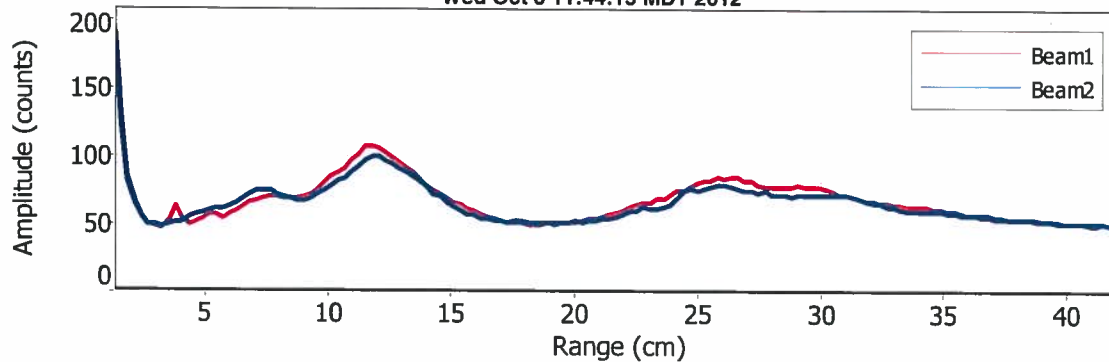
File Name 757429.WAD
Start Date and Time 2012/10/03 11:47:17

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Operator(s) SBT

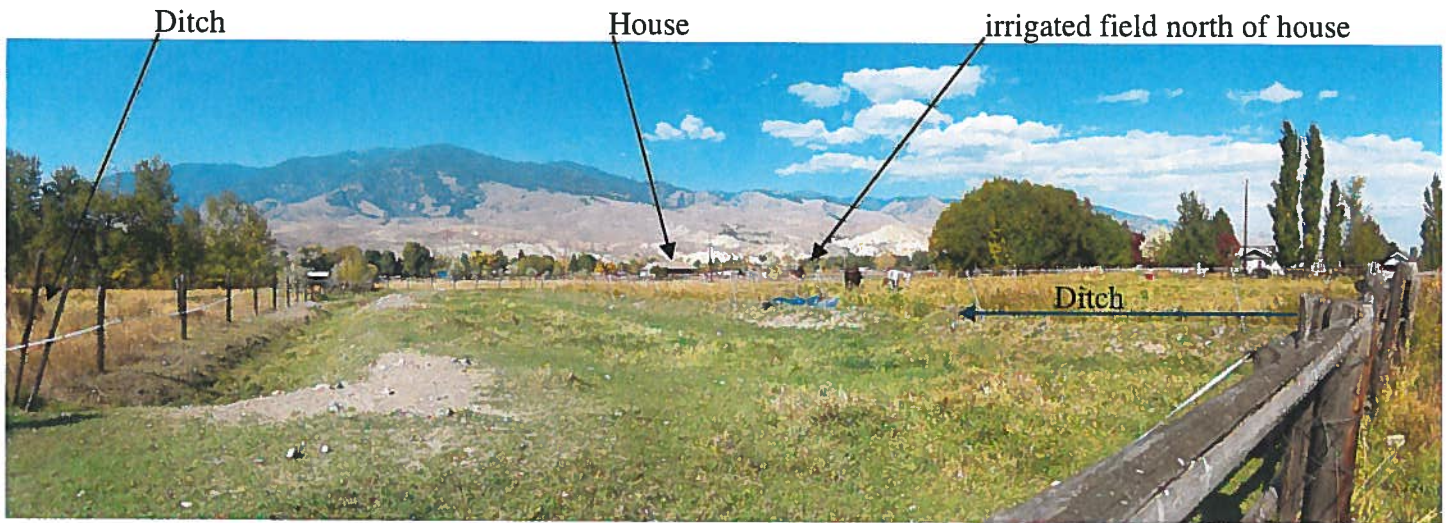
Automatic Quality Control Test (BeamCheck)

Wed Oct 3 11:44:15 MDT 2012



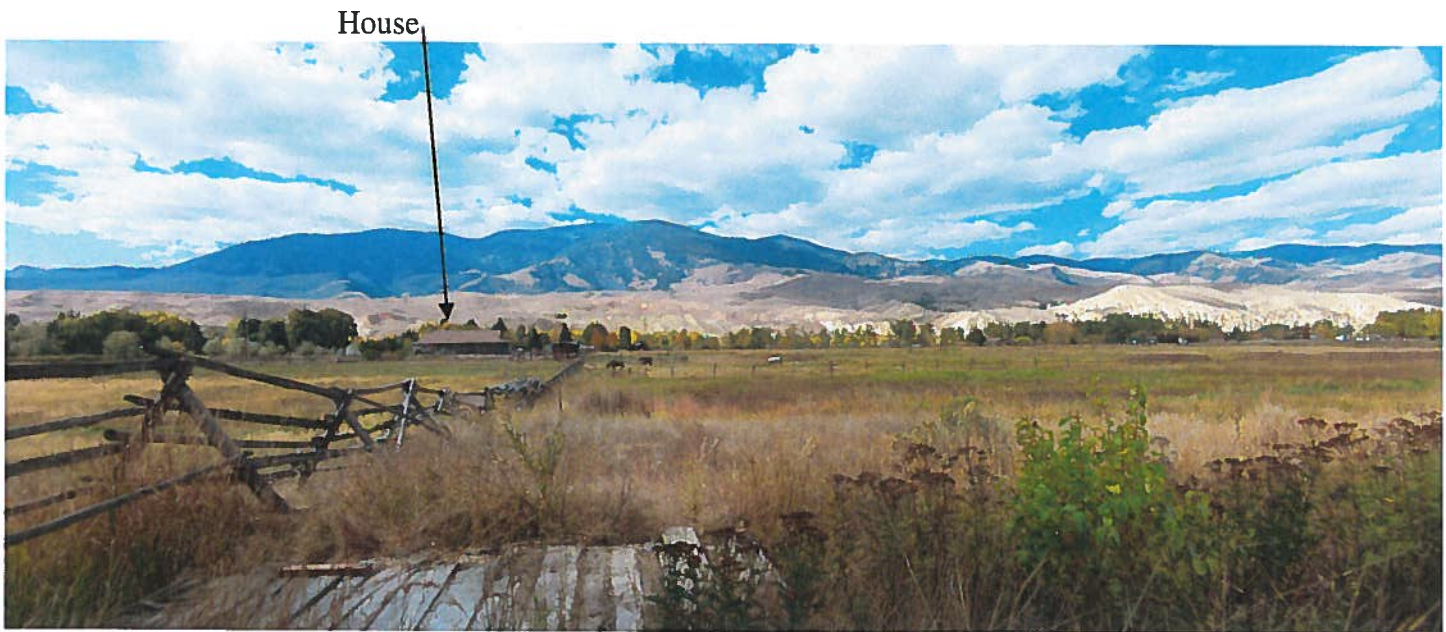
- ✓ Noise level check - Pass
- ✓ SNR check - Pass
- ✓ Peak location check - Pass
- ✓ Peak shape check - Pass

PHOTOGRAPHER AND DATE OF PHOTOS: Sandy Thiel, October 3, 2013
FILE NUMBER 75-7429



Flood irrigated fields

The ditch labeled to the left in the photo runs parallel to the fence in the background



Ditch outtake in the foreground

Both ditches are behind the photographer

The mainline runs parallel to the fence

Hand lines extend on both sides of the fence



The first ditch is on the other side of the trees to the right