

A. GENERAL INFORMATION

Exam Date: 10/3/2012

- Relationship to Permit Holder:
- Farm Manager

- TRIBUTARY
SNAKE RIVER

1. Other water rights with the same place of use:
2. Other water rights with the same point of diversion:

OWYHEE County

2.

PLACE OF USE: IRRIGATION STORAGE

Twp	Rge	Sec	NE				NW				SW				SE				
			<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>	<u>Totals</u>
03S	01W	2			X		X L 3			X						X			

PLACE OF USE: IRRIGATION FROM STORAGE

Twp	Rge	Sec	NE				NW				SW				SE				Totals
			NE	NW	SW	SE	NE	NW	SW	SE	NE	NW	SW	SE	NE	NW	SW	SE	
03S	01W	2							34.0		38.0	39.0				2.0			113.0
03S	01W	3							39.0			36.0	36.0		38.0	39.0	40.0	39.0	267.0
03S	01W	4			40.0	40.0			40.0	40.0	40.0	40.0	40.0	40.0	40.0	40.0	26.0	28.0	454.0
03S	01W	5			40.0										40.0			39.0	119.0
03S	01W	7											40.0	40.0	40.0	39.0	39.0		198.0
03S	01W	8	34.0	39.0	40.0	35.0	39.0	39.0	39.0	40.0	40.0	39.0	37.0	38.0	36.0	40.0	38.0	35.0	608.0
03S	01W	9	39.0	36.0	40.0	40.0	39.0	36.0	37.0	38.0	38.0	39.0	36.0	40.0	38.0	40.0	40.0	39.0	615.0
03S	01W	10	34.0	34.0	40.0	40.0	37.0	36.0	37.0	40.0	40.0	38.0	40.0	40.0	39.0	40.0	38.0	39.0	612.0
03S	01W	11					38.0	37.0	37.0	39.0	40.0	40.0							231.0
03S	01W	15		37.0			40.0	31.0											108.0
03S	01W	17	37.0	40.0	37.0	40.0	40.0	34.0	39.0	39.0	40.0	39.0	39.0	40.0		40.0	40.0		544.0
03S	01W	18	40.0	40.0	40.0	40.0	39.0			39.0	39.0				40.0	40.0	37.0	39.0	433.0
03S	01W	19	35.0	27.0															62.0
03S	01W	20					40.0	39.0											79.0

Total Acres: 4443

DIVERSION TO STORAGE same as IRRIGATION FROM STORAGEMethod of Determination: GPS, GIS, 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 Aerial Photo Attached (required for irrigation of 10+ acres).

YES 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
Murphy Flat Reservoir #1 A0017518 Formerly known as Hulet Reservoir #1	NONE				

*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

2. Measurements: Used Snake River Basin Adjudication engineering staff studies, independent engineering studies, and past watermaster reports to determine the capacity of the canal. See narrative on flow calculation sheet.

E. FLOW CALCULATIONS X Additional Computation Sheets Attached

Measured Method:

Canal capacity determined at 72.70 cfs**Permit requests 70.00 cfs****License recommended for 0.03 cfs.****F. VOLUME CALCULATIONS**

1. Volume Calculations for Irrigation:

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

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

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

2. Volume Calculations for Other Uses:

The Dam Safety file provides 2 documents showing the reservoir capacity at different water levels in the reservoir based on elevation from sea level that range between 1.2 af to 7,137 af with 17.2 feet of dead storage space. A February 1, 1999 agreement numbered IDI-20054 between the Bureau of Reclamation and Jay Hulet limits the elevation of the reservoir to 2,940 feet of elevation. The Dam Safety staff have limited the storage capability in this dam to this elevation, since this agreement was made.

At 2,940 feet of elevation storage capacity = 936 acre feet with 919 acre feet of active storage.

Water Right Permit limits the storage capacity to 7,000 acre feet

License storage recommended as 936 acre feet.

G. NARRATIVE/REMARKS/COMMENTS

The water for this permit is diverted from Sinker Creek at the Main Murphy Flat Reservoir #1 (Formerly known as Hulet Reservoir #1). The water is diverted into the Murphy Flat Canal to a series of re-regulation ponds and buried mainlines that transports the water approximately 15 miles to Regulation Pond #3. At Reg. Pond 3 the water is gravity fed into the pipeline that runs northeast towards Reg. Pond 4. Approximately 20 feet uphill or southwest of Reg. Pond 4, there is a valve that determines whether the water flows to the Murphy Flat Reservoir #2 (formerly known as Hulet reservoir #2) or into Reg. Pond 4. Murphy Flat Reservoir #2 is the reservoir discussed in this water right. This pipeline is used during the non-irrigation season to store water in the storage reservoir, and the same pipeline is used to lift water from Reg. Pond 4 up to Reg. Pond 3 by the use of a series of pumps at Reg. Pond 4. Reg. Pond 4 is used to collect water that is diverted from the Snake River through a High Lift Pumping plant to for irrigation of the same acres described in this permit.

The water for this permit is diverted from Sinker Creek only when Sinker Creek is flowing at flood stage, and Murphy Flat Reservoir #1 is full or nearly full. Water from Sinker Creek for Murphy Flat Reservoir #2 is only available every 5 to 10 years. However, when Sinker Creek is at flood stage, it can fill Murphy Flat Reservoir #1 very quickly, and has been reported that it has filled the first reservoir in 24 hours. Due to the flash flood nature of Sinker Creek, water users on Sinker Creek have diverted water out of the reservoir during these periods to avoid the water from topping the dam and causing dam failure. This dam did fail in the early 70's, so this is a realistic concern.

Jay Hulet, previous owner of this right, felt it would be beneficial to store the water being diverted down the ditches and canals at a point several miles away from the dam and away from Sinker Creek during these events to prevent damage to Reservoir #1 and hold that water for future use. The water stored in Reservoir #2 could then be used to irrigate the ground supplied by the canal during the irrigation season, and avoid using the High Lift pump system from the Snake River. This would reduce the High Lift pumping costs tremendously. This permit was filed and the canal has been used to fill Reservoir #2 several times for testing purposes. I observed water being diverted to Reservoir #2 in 2006 during a dam safety inspection during flood stage flows, and the aerial photography from 1992 shows that the reservoir was filled that year. This reservoir is rarely used, but when it is used, the owners can send the full capacity of the canal to this reservoir. This water right not only supplies a beneficial use, but also provides a measure of safety for those water users downstream of Reservoir #1.

The capacity of the canal was debated in the Snake River Basin adjudication to be anywhere from 60 cfs to 72.70 cfs. A compromise was accomplished in the Snake River Basin Adjudication to allow a capacity of the canal of 80.10 cfs. My review of this information leads me to believe that the capacity of the canal is between 67 cfs to 72 cfs. Therefore, the 70 cfs diversion to storage recommended for this water right should be adequate. The diversion rate is limited by the amount applied for in the permit.

Water rights 57-179, 57-180B, 57-181, 57-7152 are diverted from the same point of diversion at Murphy Flat Reservoir #1. Water rights 2-7001, 2-10020, 57-179, 57-180B, 57-181, 57-7152 and this water right irrigate the same acres. I only found 4443 acres actually irrigated, but the other decrees allowed 4882 acres of irrigation. From my review, it appears they gave credit for irrigation of lands based on the tract size and not the actual amount of land being irrigated in each tract. Therefore, the combined conditions will be limited by the 4882 acres described in the existing decrees, but the acres described in this license will be limited to the actual acres irrigated. I also added a total volume of 21,969 acre feet limitation, which is 4882 acres multiplied by the 4.5 acre feet per acre headgate requirement for this area. I did limit the acres that can be irrigated under this water right to the acres that I found irrigated or 4443 acres.

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

I discovered that
1992 aerial photography
in our GIS system
was actually a
~~1990~~ 1998 ortho
photo map
Don Nelson

H. RECOMMENDATIONS**1. Recommended Amounts**

<u>BENEFICIAL USE</u>	<u>PERIOD OF USE</u>	<u>DIVERSION RATE</u>	<u>ANNUAL VOLUME</u>
DIVERSION TO STORAGE	11/01 to 07/01	70.000 CFS	
IRRIGATION STORAGE	01/01 to 12/31		936.00 AF
IRRIGATION FROM STORAGE	04/01 to 11/01		936.00 AF
	<u>Totals:</u>	70.000 CFS	936.00 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

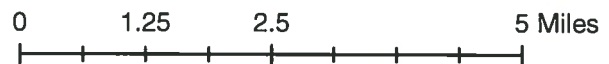
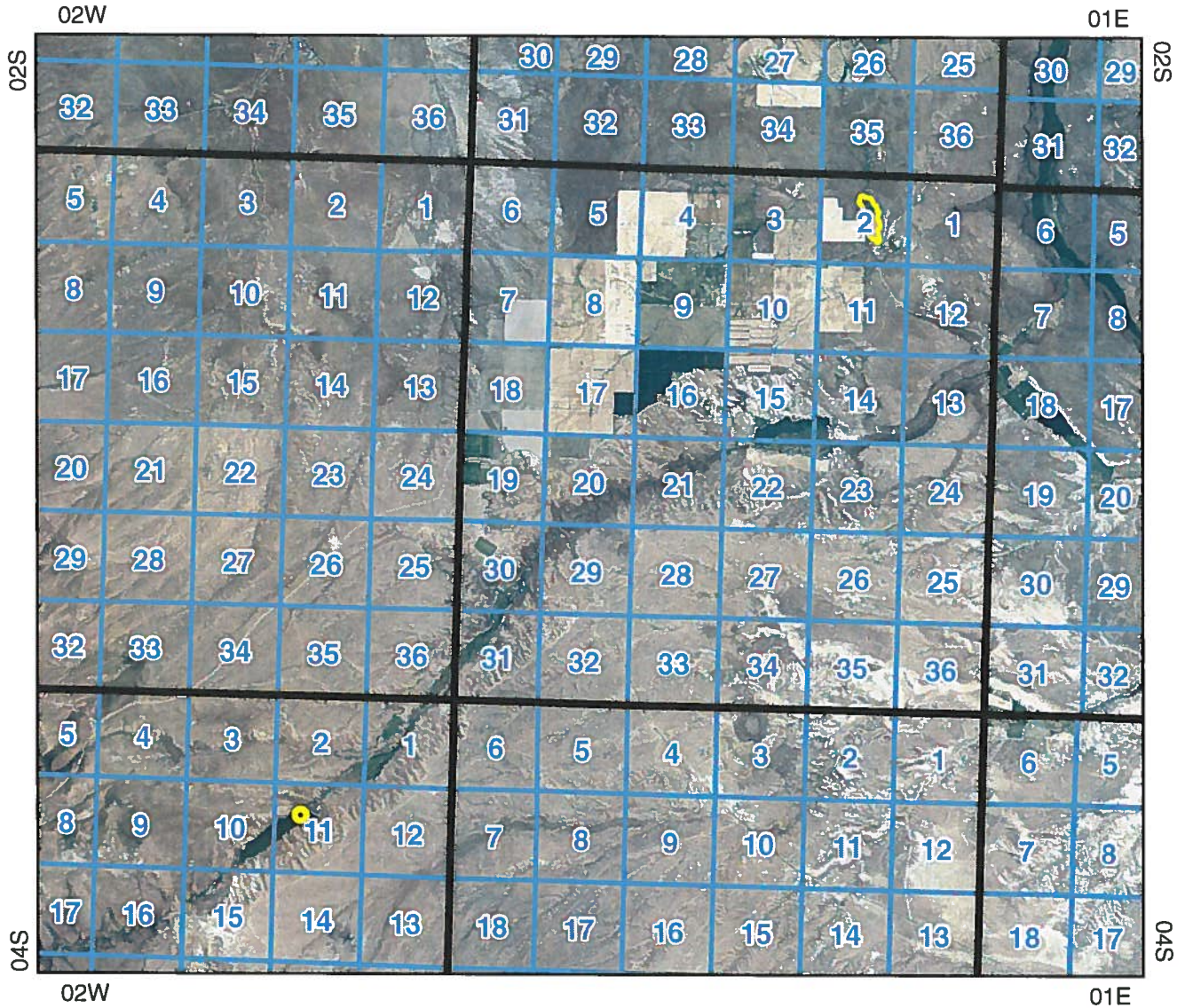
I. AUTHENTICATION Daniel A. Nelson – Staff Hydrologist

Field Examiner's Name David A. Nelson Date 2-6-2012

Reviewer _____ Date _____

State of Idaho
Department of Water Resources
Field Exam Map
57-7385

This map depicts the IRRIGATION STORAGE 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.

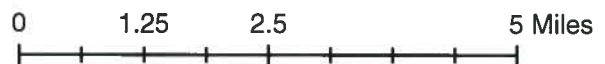
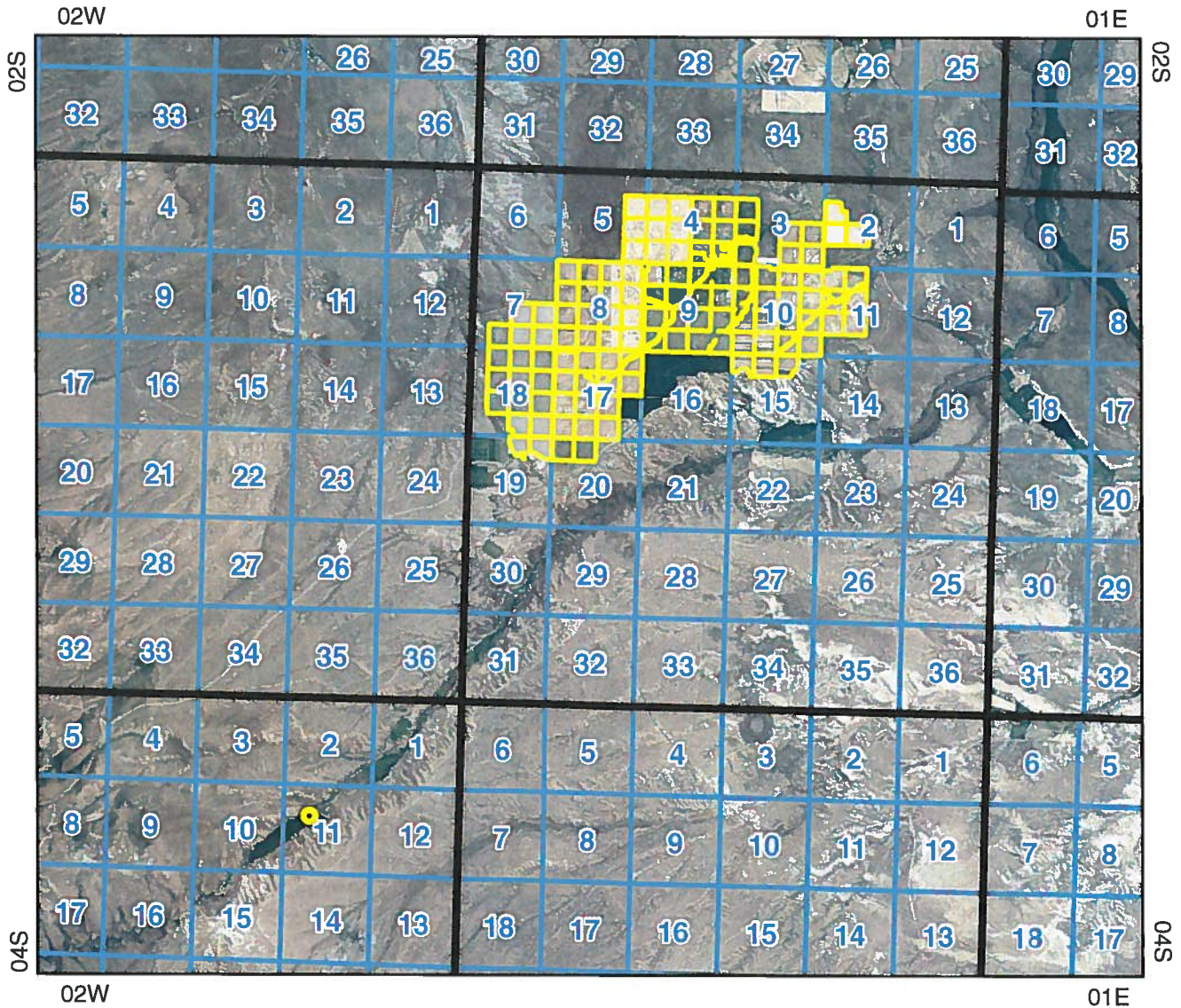


-  Point of Diversion
-  Place Of Use Boundary
-  Townships
-  PLS Sections



State of Idaho
Department of Water Resources
Field Exam Map
57-7385

This map depicts the IRRIGATION FROM STORAGE 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
-  Townships
-  PLS Sections



System Diagram
Permit 57-7385

The water for this permit is diverted from Sinker Creek at the Main Murphy Flat Reservoir. The water is diverted into the Murphy Flat Canal to a series of re-regulation ponds and buried mainlines. After re-regulation Pond 3 (Reg. Pond 3 on map), the water is then diverted into a pipeline that travels approximately $\frac{3}{4}$ of a mile towards Regulation Pond 4 (Reg. Pond 4). Approximately 20 feet above the regulation Pond 4, the water is diverted to the north into the Murphy Flat Storage Reservoir #2 (Marked Reservoir Permit 57-7385). This water is only used when the Main Murphy Flat Reservoir is nearly full and Sinker Creek is still at or near flood stage. To prevent flooding below the Murphy Flat Main Reservoir, the headgate from the reservoir is opened and as much water as possible is sent down the canal to the Murphy Flat Reservoir #2. This reservoir is only used once every 5 to 10 years. When the water is stored, it is diverted through a buried pipeline to Regulation pond 4 to be pumped back up through the system. Regulation pond 4 is used to pump Snake River water delivered through the pipelines and canals to the northeast back up to Regulation Ponds 2 and 3 and distributed to the irrigation system.

- Murphy Flat Canal
- Buried Mainlines
- Irrigated fields

Main Murphy
Flat Reservoir

Point of Diversion
A0017518

Reg. Pond 2

Reg. Pond 3

Reg. Pond 1

Reg. Pond 6
off canal

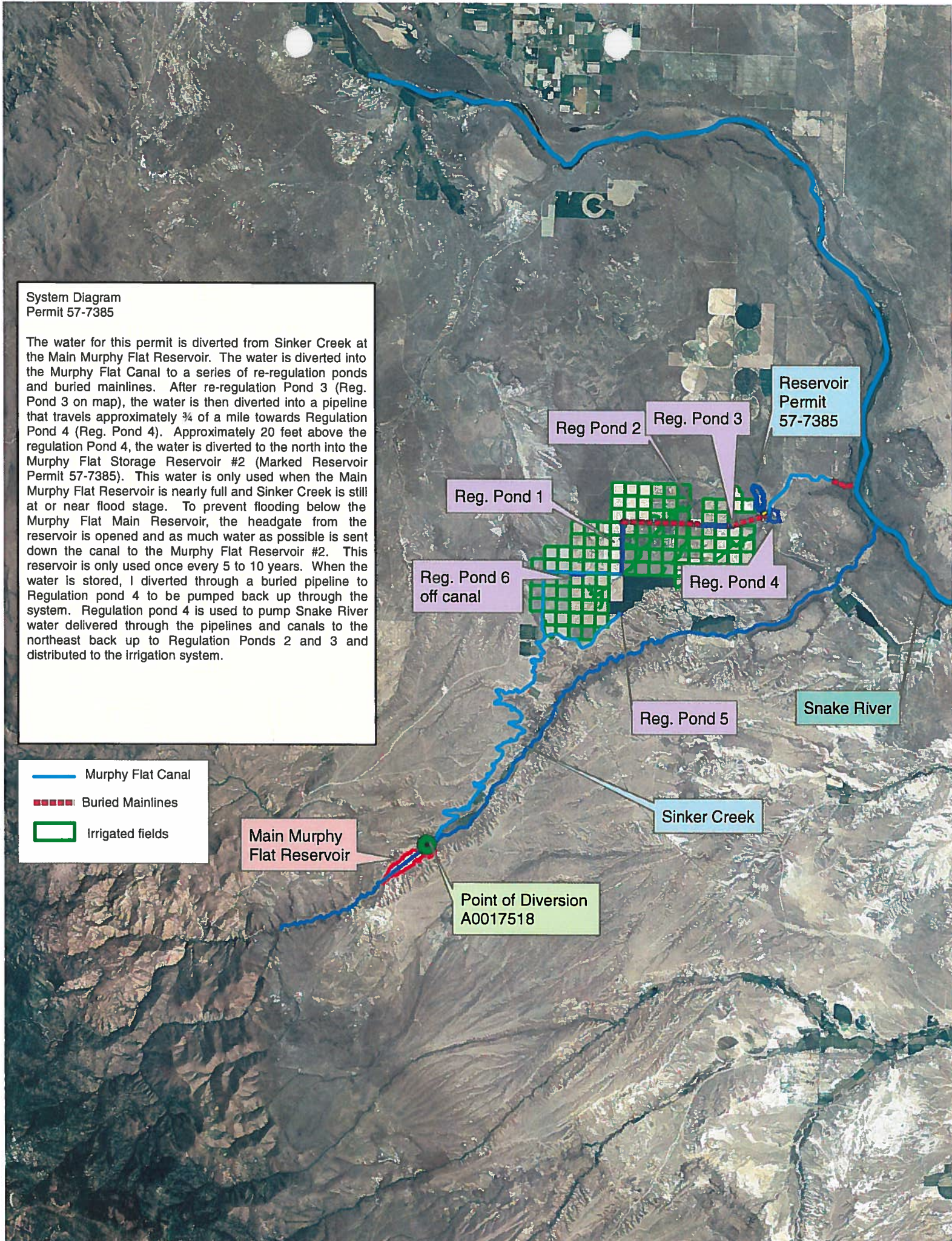
Reg. Pond 4

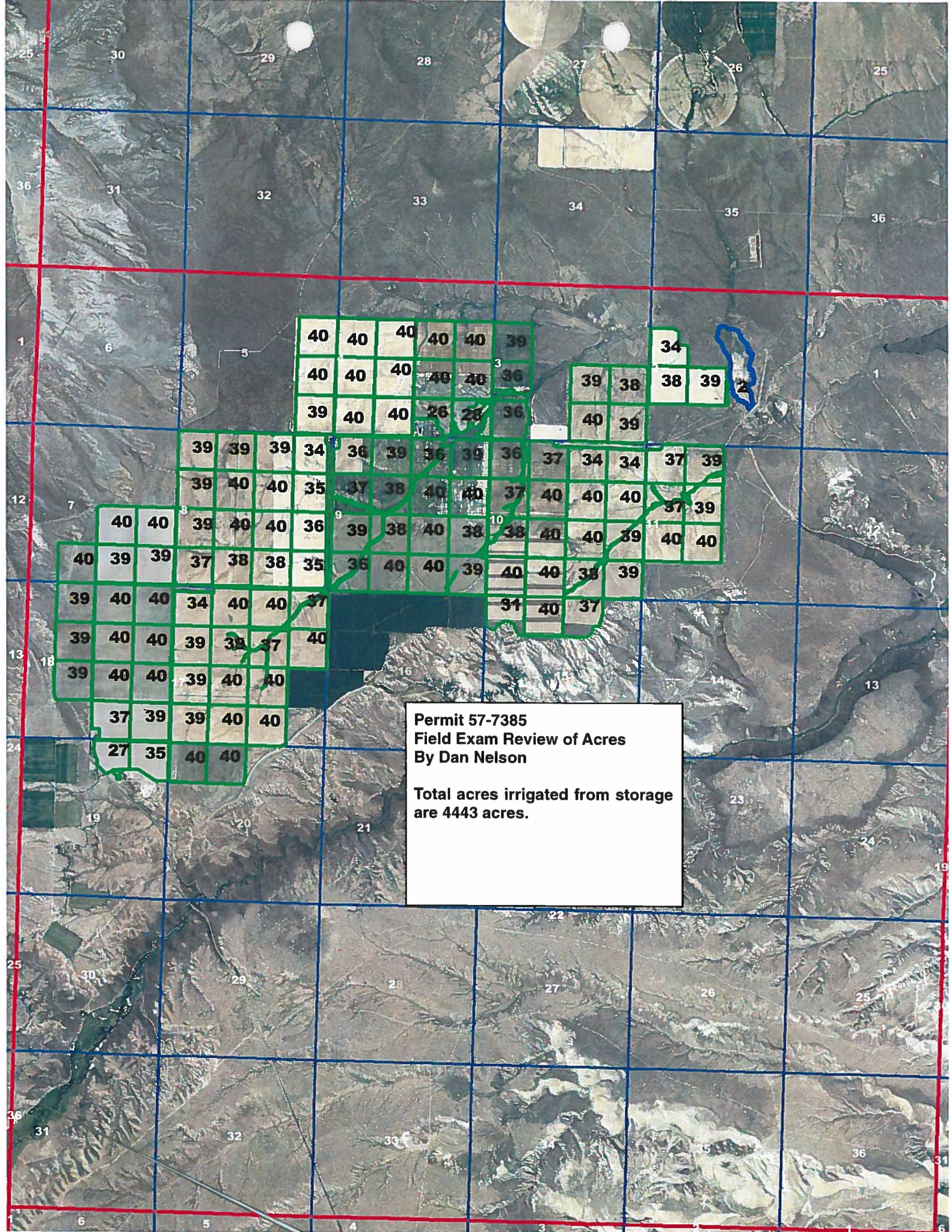
Reg. Pond 5

Reservoir
Permit
57-7385

Snake River

Sinker Creek





Permit 57-7385
Field Exam Review of Acres
By Dan Nelson

Total acres irrigated from storage
are 4443 acres.

System Diagram
Permit 57-7385

The water for this permit is diverted from Sinker Creek at the Main Murphy Flat Reservoir. The water is diverted into the Murphy Flat Canal to a series of re-regulation ponds and buried mainlines. After re-regulation Pond 3 (Reg. Pond 3 on map), the water is then diverted into a pipeline that travels approximately $\frac{3}{4}$ of a mile towards Regulation Pond 4 (Reg. Pond 4). Approximately 20 feet above the regulation Pond 4, the water is diverted to the north into the Murphy Flat Storage Reservoir #2 (Marked Reservoir Permit 57-7385). This water is only used when the Main Murphy Flat Reservoir is nearly full and Sinker Creek is still at or near flood stage. To prevent flooding below the Murphy Flat Main Reservoir, the headgate from the reservoir is opened and as much water as possible is sent down the canal to the Murphy Flat Reservoir #2. This reservoir is only used once every 5 to 10 years. When the water is stored, I diverted through a buried pipeline to Regulation pond 4 to be pumped back up through the system. Regulation pond 4 is used to pump Snake River water delivered through the pipelines and canals to the northeast back up to Regulation Ponds 2 and 3 and distributed to the irrigation system.

— Murphy Flat Canal
- - - - - Buried Mainlines

Main Murphy
Flat Reservoir

Point of Diversion
A0017518

Sinker Creek

Reg. Pond 5

Snake River

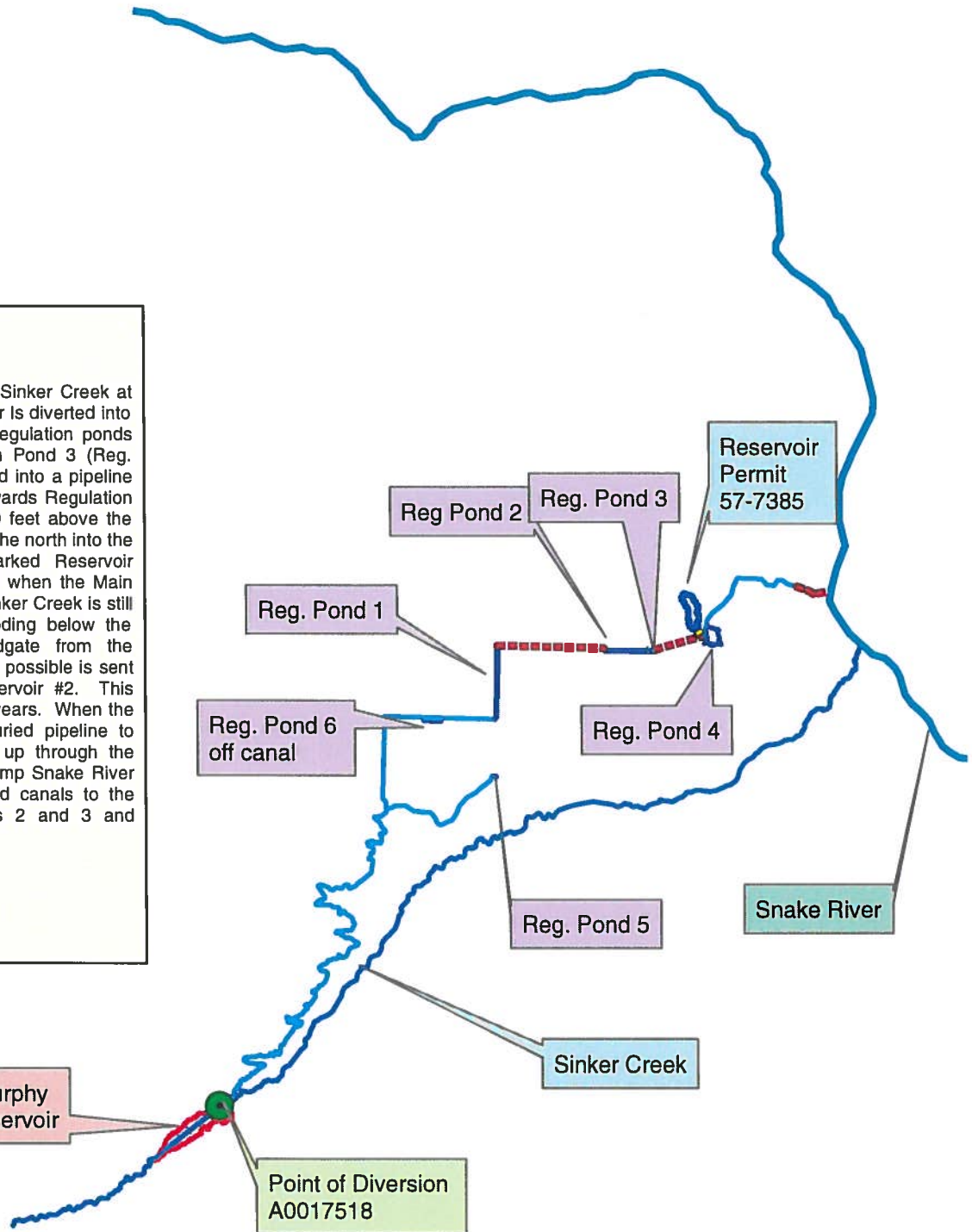
Reg. Pond 6
off canal

Reg. Pond 4

Reg. Pond 2

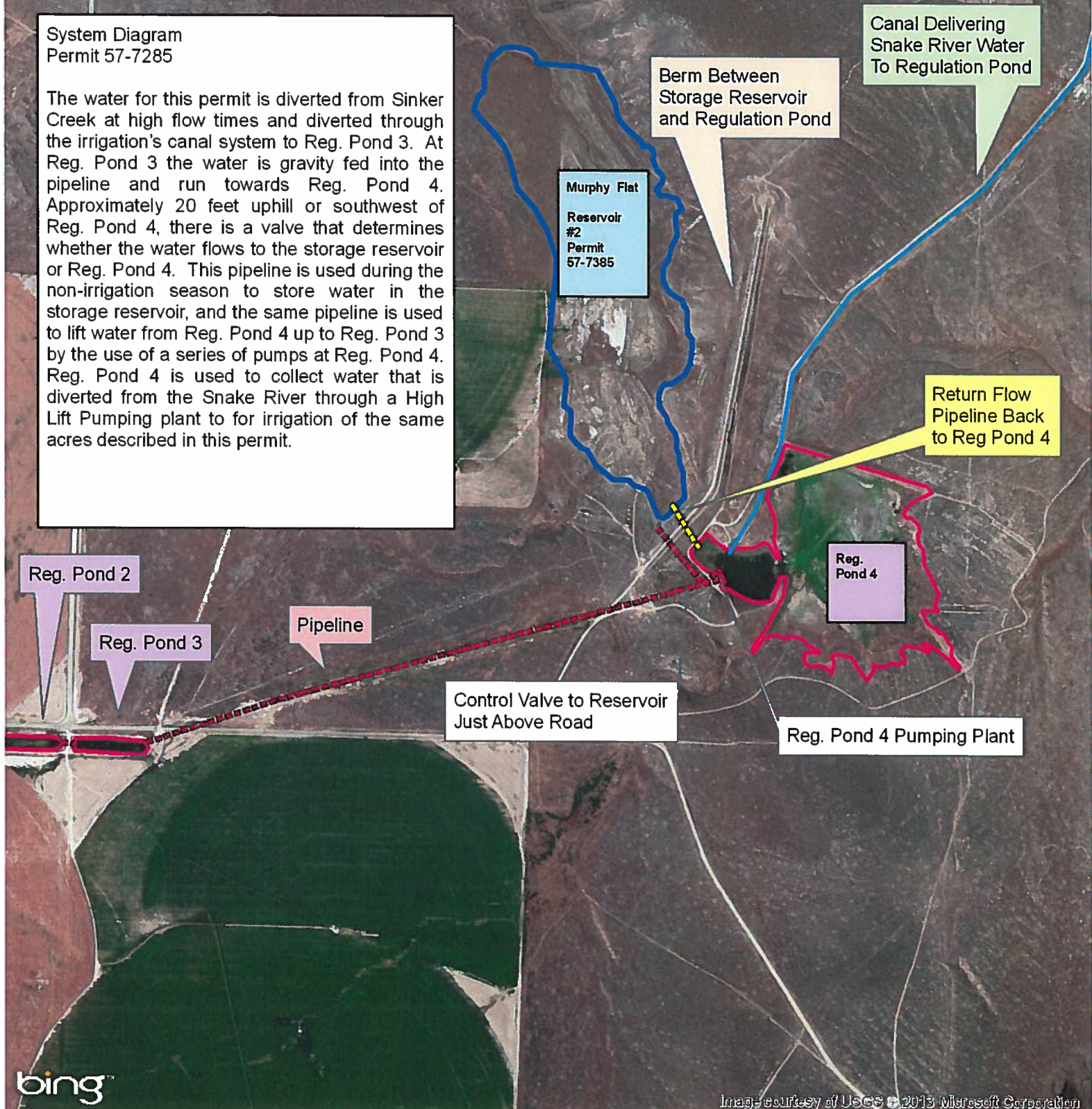
Reg. Pond 3

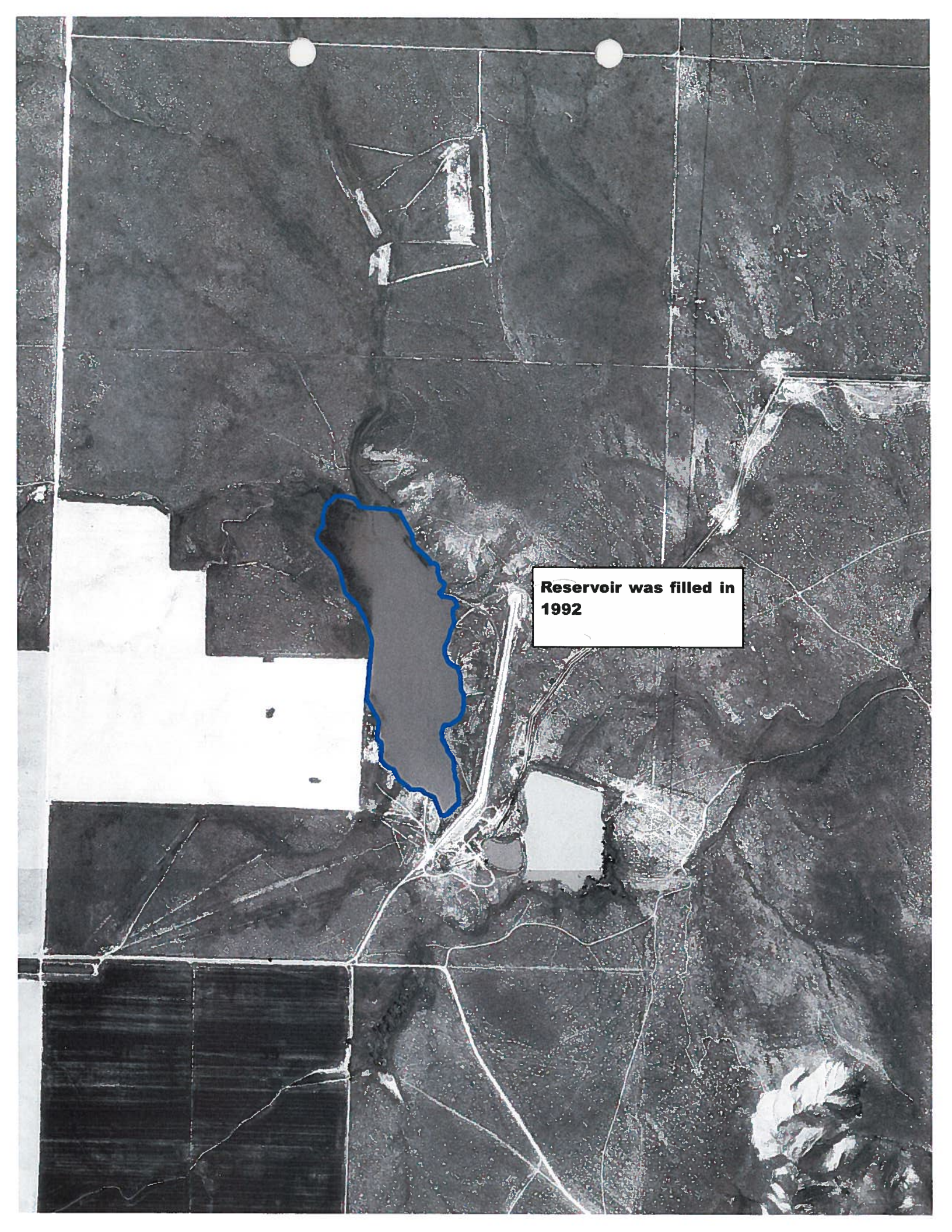
Reservoir
Permit
57-7385



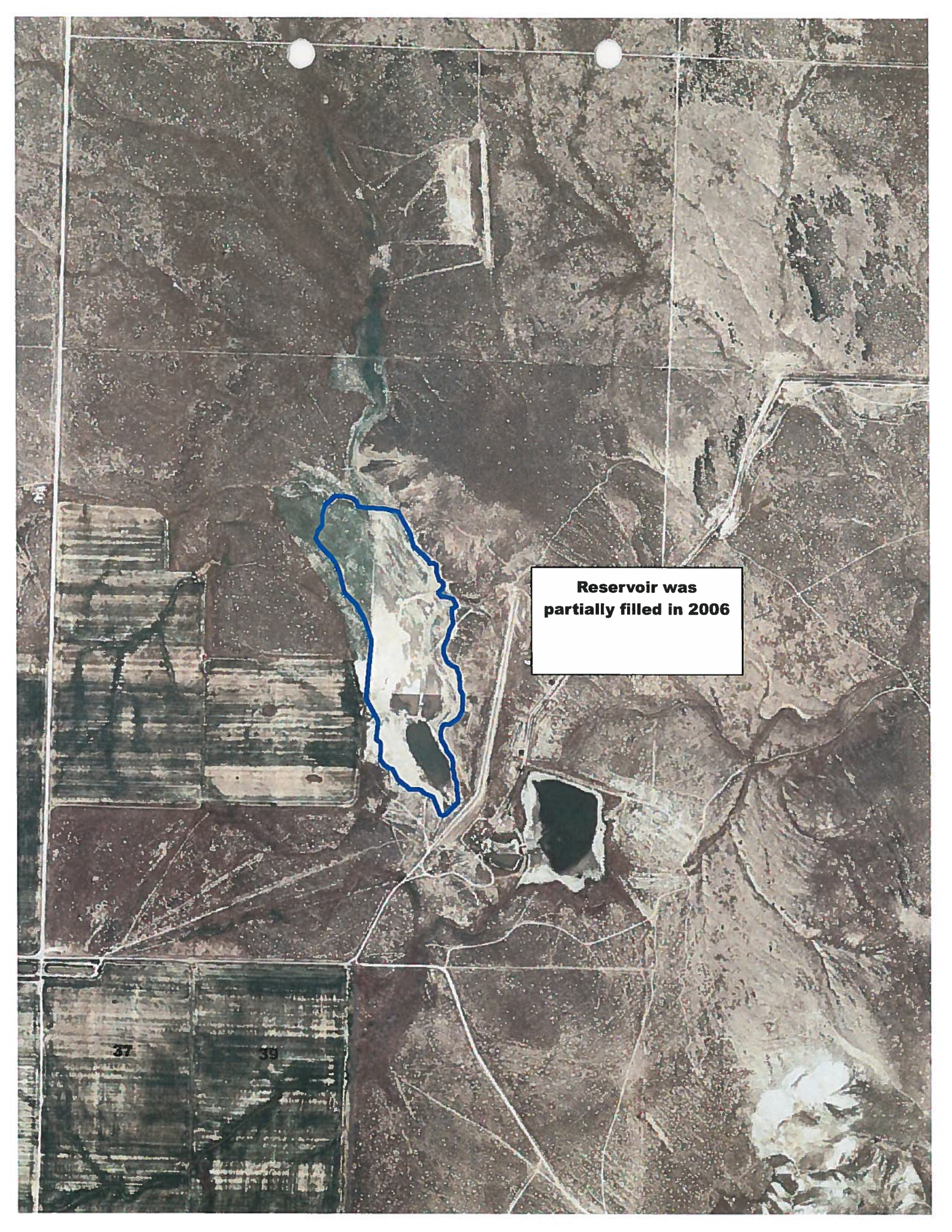
System Diagram
Permit 57-7285

The water for this permit is diverted from Sinker Creek at high flow times and diverted through the irrigation's canal system to Reg. Pond 3. At Reg. Pond 3 the water is gravity fed into the pipeline and run towards Reg. Pond 4. Approximately 20 feet uphill or southwest of Reg. Pond 4, there is a valve that determines whether the water flows to the storage reservoir or Reg. Pond 4. This pipeline is used during the non-irrigation season to store water in the storage reservoir, and the same pipeline is used to lift water from Reg. Pond 4 up to Reg. Pond 3 by the use of a series of pumps at Reg. Pond 4. Reg. Pond 4 is used to collect water that is diverted from the Snake River through a High Lift Pumping plant to for irrigation of the same acres described in this permit.



An aerial photograph of a landscape, likely a wetland or marsh area. The terrain is dark and textured, with various patterns of vegetation and water. A large, irregularly shaped area in the center-left is highlighted with a blue outline, indicating a reservoir. To the right of this area, there is a smaller, lighter-colored rectangular area. The image is divided into several sections by thin white lines, possibly representing property boundaries or survey lines. Two white circular marks are visible at the top edge of the image.

**Reservoir was filled in
1992**

An aerial photograph showing a landscape with a reservoir and agricultural fields. The reservoir is outlined in blue and is partially filled with water. The surrounding area is a mix of brown and green, indicating different types of vegetation or land use. A white box with black text is overlaid on the right side of the image. The numbers 37 and 39 are visible in the bottom left corner.

**Reservoir was
partially filled in 2006**

37

39

ESTIMATED FLOW RATES FOR 10 FT Cipolletti Weir USING CALCULATION $[(h) ^ 1.5]$ (DAM WIDTH) 3.367

HEAD IN FEET	FLOW RATE IN CFS	HEAD IN FEET	FLOW RATE IN CFS	HEAD IN FEET	FLOW RATE IN CFS	HEAD IN FEET	FLOW RATE IN CFS	HEAD IN FEET	FLOW RATE IN CFS
0.20	3.01	0.58	14.87	0.96	31.67	1.34	52.23	1.72	75.95
0.21	3.24	0.59	15.26	0.97	32.17	1.35	52.81	1.73	76.61
0.22	3.47	0.60	15.65	0.98	32.66	1.36	53.40	1.74	77.28
0.23	3.71	0.61	16.04	0.99	33.17	1.37	53.99	1.75	77.95
0.24	3.96	0.62	16.44	1.00	33.67	1.38	54.58	1.76	78.62
0.25	4.21	0.63	16.84	1.01	34.18	1.39	55.18	1.77	79.29
0.26	4.46	0.64	17.24	1.02	34.69	1.40	55.77	1.78	79.96
0.27	4.72	0.65	17.64	1.03	35.20	1.41	56.37	1.79	80.63
0.28	4.99	0.66	18.05	1.04	35.71	1.42	56.97	1.80	81.31
0.29	5.26	0.67	18.47	1.05	36.23	1.43	57.58	1.81	81.99
0.30	5.53	0.68	18.88	1.06	36.75	1.44	58.18	1.82	82.67
0.31	5.81	0.69	19.30	1.07	37.27	1.45	58.79	1.83	83.35
0.32	6.09	0.70	19.72	1.08	37.79	1.46	59.40	1.84	84.04
0.33	6.38	0.71	20.14	1.09	38.32	1.47	60.01	1.85	84.72
0.34	6.68	0.72	20.57	1.10	38.84	1.48	60.62	1.86	85.41
0.35	6.97	0.73	21.00	1.11	39.38	1.49	61.24	1.87	86.10
0.36	7.27	0.74	21.43	1.12	39.91	1.50	61.86	1.88	86.79
0.37	7.58	0.75	21.87	1.13	40.44	1.51	62.48	1.89	87.49
0.38	7.89	0.76	22.31	1.14	40.98	1.52	63.10	1.90	88.18
0.39	8.20	0.77	22.75	1.15	41.52	1.53	63.72	1.91	88.88
0.40	8.52	0.78	23.19	1.16	42.07	1.54	64.35	1.92	89.58
0.41	8.84	0.79	23.64	1.17	42.61	1.55	64.97	1.93	90.28
0.42	9.16	0.80	24.09	1.18	43.16	1.56	65.60	1.94	90.98
0.43	9.49	0.81	24.55	1.19	43.71	1.57	66.24	1.95	91.68
0.44	9.83	0.82	25.00	1.20	44.26	1.58	66.87	1.96	92.39
0.45	10.16	0.83	25.46	1.21	44.81	1.59	67.51	1.97	93.10
0.46	10.50	0.84	25.92	1.22	45.37	1.60	68.14	1.98	93.81
0.47	10.85	0.85	26.39	1.23	45.93	1.61	68.78	1.99	94.52
0.48	11.20	0.86	26.85	1.24	46.49	1.62	69.42	2.00	95.23
0.49	11.55	0.87	27.32	1.25	47.06	1.63	70.07	2.01	95.95
0.50	11.90	0.88	27.80	1.26	47.62	1.64	70.71	2.02	96.67
0.51	12.26	0.89	28.27	1.27	48.19	1.65	71.36	2.03	97.38
0.52	12.63	0.90	28.75	1.28	48.76	1.66	72.01	2.04	98.10
0.53	12.99	0.91	29.23	1.29	49.33	1.67	72.66	2.05	98.83
0.54	13.36	0.92	29.71	1.30	49.91	1.68	73.32	2.06	99.55
0.55	13.73	0.93	30.20	1.31	50.48	1.69	73.97	2.07	100.28
0.56	14.11	0.94	30.69	1.32	51.06	1.70	74.63	2.08	101.00
0.57	14.49	0.95	31.18	1.33	51.64	1.71	75.29	2.09	101.73

The formula for this spreadsheet was taken from the U.S. Department of Labor Bureau of Reclamation Water measurement Manual. The weir at the property showed water marks up to 1.29 feet of head on the staff gauge and 15 1/2 inches of head at the weir, which suggest that the staff gauge was set properly. The total height of the weir is 2 feet. According to an investigation by Cindy Yenter in 1995, the Cipolletti Weir is only accurate to 35 cfs or 1.03 ft of head. I have not done an evaluation on the accuracy of this weir. Watermaster records show that 56.07 cfs has been delivered to the canal on several occasions, but these measurements were only during the irrigation season and not when flood waters were available. A review of the canal capacity was done for adjudication review of overlapping water rights 57-179, 57-180B, and 57-181 which states that the capacity of the canal is 72.70 cfs. There are records that the say 72.70 cfs was diverted on July 11, 1984. . Several evaluations were done during the objection process for 57-181 that range from 56.56 cfs to 66.17 cfs. The Snake River Basin Decree for 57-181 allows a diversion rate of 80.10 cfs, but that amount seems to be an estimation with a very high error factor includedIn 2006, I was asked to review the site during a high flow event, and found that approximately 25 cfs in 2006. was being diverted down the canal to the reservoir. The permitted amount of 70.00 cfs does seem under the the measured capacity of the canal of 72.70 cfs, and the canal is run at full capacity when flood waters threaten the dam. Available evidence shows that the reservoir was used in 2006 and 1992.



State of Idaho

DEPARTMENT OF WATER RESOURCES

1301 North Orchard Street, Statehouse Mail, Boise, Idaho 83720-9000

Phone: (208) 327-7900 FAX: (208) 327-7866

FILE IN AS7-02015
AS7-00179 RECEIVED
" 001802 AS7-02315
" 00181
1111 15 1994
AS7-02191
WATER RESOURCES
WESTERN REGION

CECIL D. ANDRUS
GOVERNOR

R. KEITH HIGGINSON
DIRECTOR

November 1, 1993

Jay Hulet
HC 79, Box 2020
Murphy, ID 83650

RE: Snake River Basin Adjudication (SRBA)
Objection 57-02015 et al.
only

Dear Mr. Hulet:

In our meeting Friday morning you requested this letter setting forth specific numbers relative to the water rights and flows in Murphy Mutual Canal (MMC). Without restating the factual background, the following should meet your objectives.

For Joyce Livestock (Nettleton) canal water rights, the amount of water for conveyance loss found in the claim file was 5.14 cfs, using a loss rate of 1.0 feet per day typical for medium soils. (With simple calculations for 14.77 cfs, this amount of loss is 34.8 per cent.)

Recommended for Nettleton lands from MMC:

At 481 acres x .02 cfs/acre = 9.62 cfs

Conveyance Loss = 5.14+cfs
14.77 cfs

Using the acreage figures you presented:

At 450 acres x .02 cfs/acre = 9.00 cfs

Conveyance Loss = 5.14+cfs
14.14 cfs

The 0.63 cfs difference would be negligible in administering the water rights.

As to water flows available to you when a full supply can be diverted, IDWR asserts the maximum amount measured to date has been 72.7 cfs. This amount of water does not reflect what may be diverted with structural canal improvements and full development of existing water rights. The 72.7 cfs is the maximum that has been diverted to date and thus the maximum amount that can be allocated to all water rights carried down MMC.

RECEIVED
SEP 25 1996

Jay Hulet
November 1, 1993
Page 2

Canal capacity	72.70 cfs
Nettleton rights	- <u>14.77</u>
	57.93
Your 57-00179	- 0.20
Your 57-00180B	- <u>0.40</u>
Your 57-00181 could be amended to	57.33

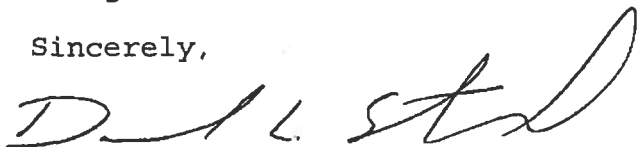
The 57.33 cfs is the amount of water IDWR has offered to amend its recommendation from 54.4 cfs. In terms of diversion down MMC, you could divert, if the capacity were increased:

1865 and 1906 water rights	57.93 cfs
1983 permit 57-07385	+ <u>70.00</u>
	127.93 cfs

For IDWR to agree to the change to 57-00181 shown above you would agree to withdraw your objections to water right claim numbers 57-02315, 57-02015 and 57-02191 and to agree any rights asserted by these claims would cease to exist.

After you have reviewed these figures, please notify me by Friday, November 5, 1993, to advise me on your view of stipulating to your objections. If you find the numbers satisfactory, I will immediately thereafter draft a stipulation for you to review and sign.

Sincerely,



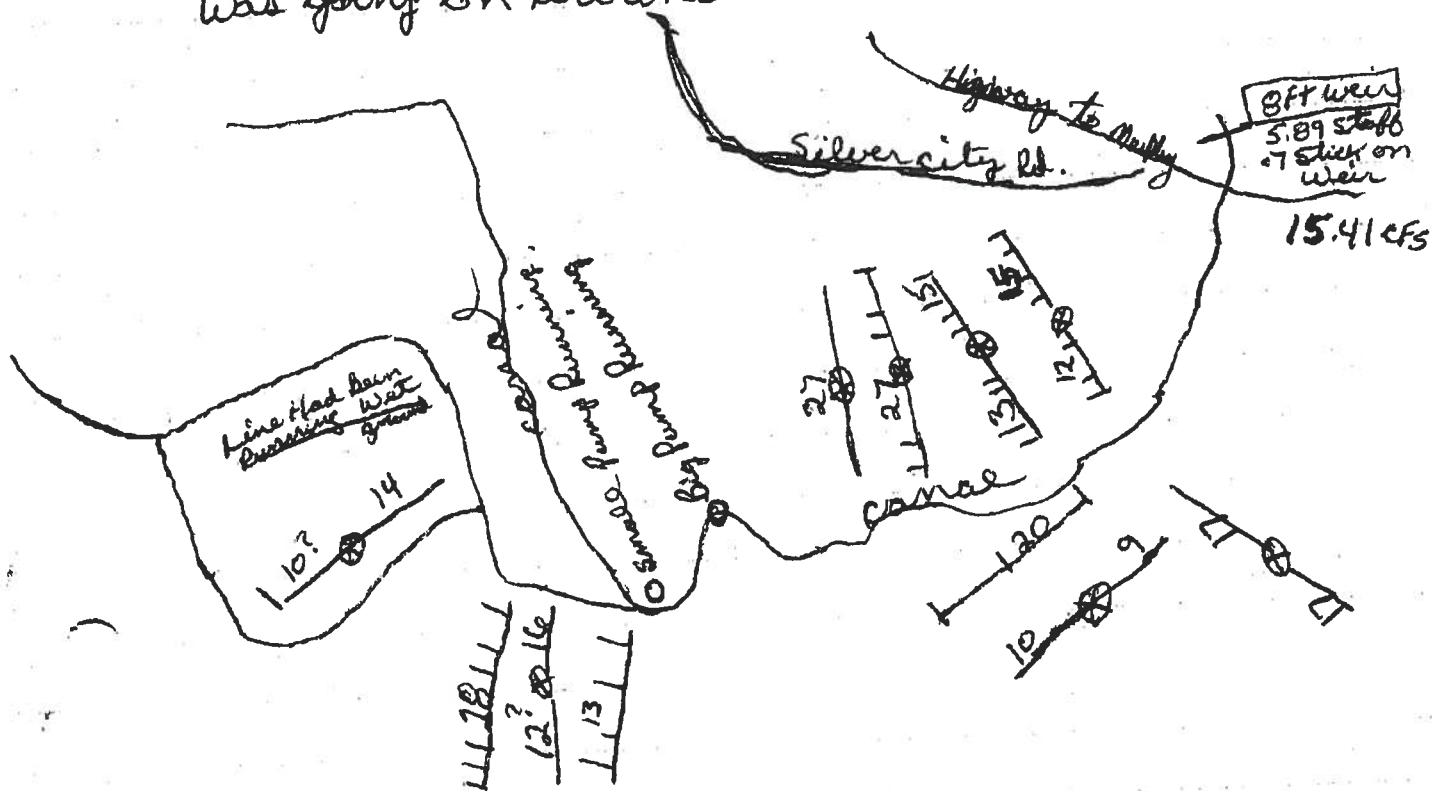
Daniel L. Steckel
Deputy Attorney General
Idaho Department of Water Resources

DVS:DLS:sf:state
cc: Don Shaff

ORIGINAL
SEP 25 1996

Aug 14-97

Jay Requested me to check or see what was going on around canal on 8-14-97.



There were 265 sprinklers running.

Bench field running 1. CFS
canal staff Read 5.36 For 56.07 CFS 10 FT weir.
Stick on weir was .74 = 20.93 CFS (Weir Submerged).
Paul Had Ground Water Pumping.
Paul Had Refit to Canal on.

PROPERTY OF THE STATE OF IDAHO

Form No. 300-W

WATERMASTER'S

DAILY RECORD

Stream Sinker Creek
Water District 57-D
Month of April + May, 19 98
Watermaster Trick Shli
P.O. Address P.O. Box 25, Murphy, Id 83650

Ten days after the close of the
irrigation season the Watermaster
must forward this book to

DEPARTMENT OF
WATER RESOURCES
STATEHOUSE
BOISE, IDAHO 83720

If this book is lost, the finder will please
return it to the Watermaster of the district, as
it contains valuable records.

20-20-100
1970 8-1000, 1, 100

Month of April 19 98

NOTE — Figures to be given in cubic feet per second for 24-hour periods, or 24-hour second feet. Give name of owner of water rights, not tenant.

Name of Person Owner	6	7	8	9	10	11	12	13	14	15
Joyce Livestock	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
Joyce Livestock	21.0	21.0	21.7	21.7	21.7	11.0	11.0	11.0	11.0	11.0
Jay Hulet	.4	.4	.4	.4	.4	.4	.4	.4	.4	.4
Jay Hulet	.2	.2	.2	.2	.2	.2	.2	.2	.2	.2
Jay Hulet	47.0	47.0	40.66	19.4	19.4	13.4	13.4	13.4	23.4	23.4
Hulet River	8.4	8.4								
56 CFS Total										
John Edgar	4.5	4.5	4.5	4.5	4.5	4.5	-0	-0	-0	-0
Nahar River	2.76	2.76	2.76	2.76	2.76	2.76	-0	-0	-0	-0
Nahar River										
Nahar River										
Nahar River	.24	.24	.24	.24	.24	.24	.24	.24	.24	.24

File Copy
mailed July 10, 1995 g4

July 10, 1995

Distribution: See Attachment A

RE: Measuring Device Requirement for Sinker Creek

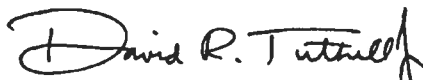
Dear Interested Party:

The on-site inspection of measuring devices on Sinker Creek which was conducted on June 30, 1995 by Mary Blackstock and Cindy Hodges revealed that some effort had been made to comply with the Measuring Device Order, but that many of the devices are still unacceptable.

Enclosed please find an inventory which identifies work which is still required. A follow-up inspection will be conducted on or about July 24, 1995. At that time water will be locked out from works which are inadequate, and where locking out is impractical an appropriate fine will be administratively imposed.

Again, if you have questions about how to install an acceptable device, or about which types of devices are best suited to your creek please contact the Watermaster, Mary Blackstock, or Cindy Hodges of this office.

Sincerely,



David R. Tuthill, Jr., P. E.
Manager, Western Region Office

Enclosures: Measuring Device Inventory
Attachment A

ATTACHMENT A
NAMES AND ADDRESSES OF
INTERESTED PARTIES
W.D. 57-D, SINKER CREEK

DON HARTLEY
HC 79 BOX 2021
MURPHY ID 83650

PAUL NETTLETON
MURPHY ID 83650

CRAIG BAKER
BOX 127
MURPHY ID 83650

R T NAHAS
20630 PATIO DRIVE
CASTRO VALLEY CA 94546

IRENE TYSON
HC 79 BOX 2040
MURPHY ID 83650

JAMES W KISER ESQ
ATTORNEY AT LAW
5405 OVERLAND RD
BOISE ID 83705

JAY HULET
HC 79 BOX 2020
MURPHY ID 83650

BLAINE HULET
HC 79 BOX 2035
MURPHY ID 83650

MARY BLACKSTOCK
HC 79 BOX 118
MELBA 83641

MEMORANDUM

July 6, 1995

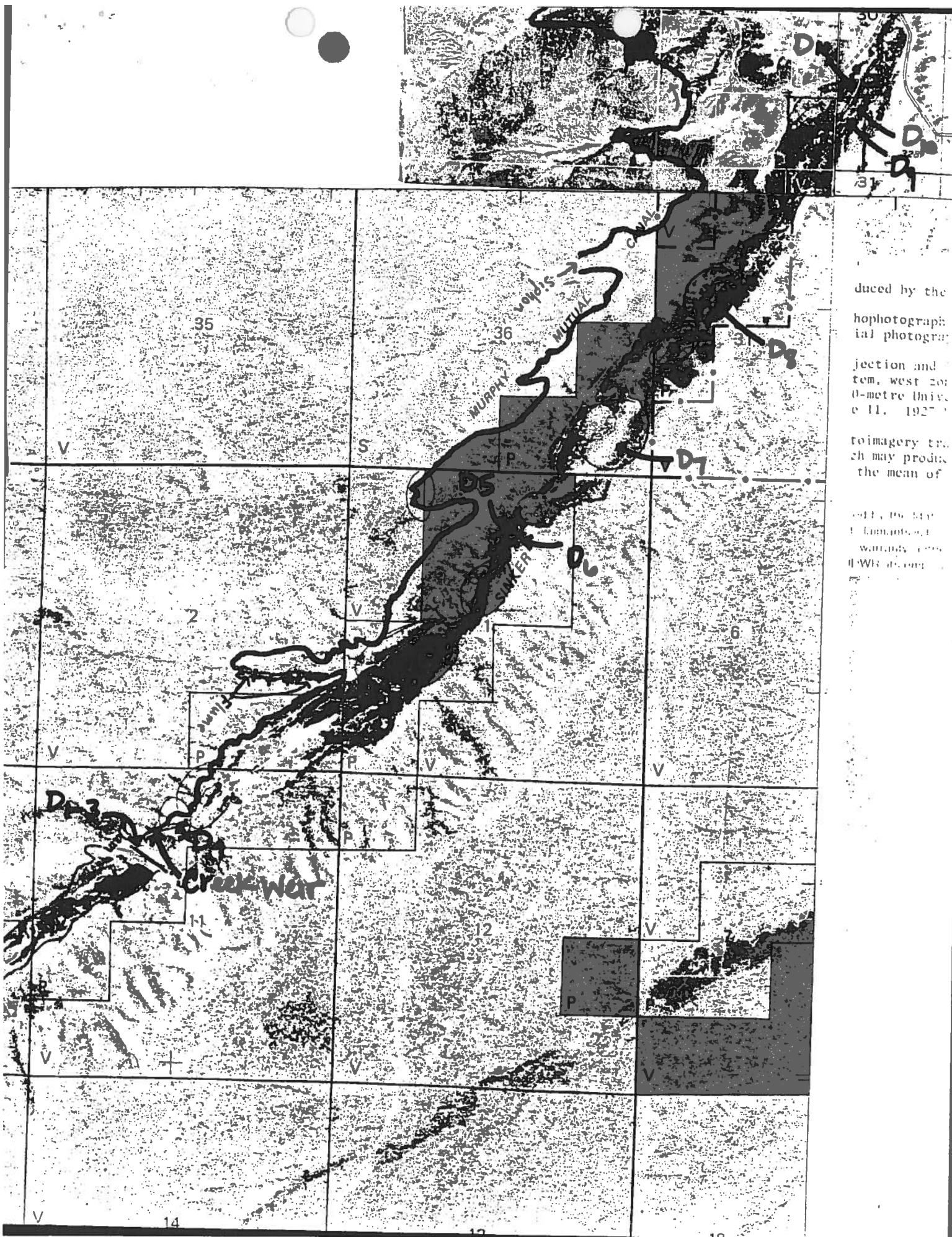
TO: Sinker Creek Water District 57D File
FROM: Cindy Hodges *CH*
RE: Diversion Works Inventory

Pursuant to the Order Requiring Measuring Devices issued on June 15, 1995, a field inventory was conducted on June 30, 1995 to determine the degree of compliance among the affected water users. The inventory was conducted by myself and Watermaster Mary Blackstock.

Attached is a table showing regulated diversion points, water user or responsible party, description of control structure and/or measuring device, and work required to attain compliance with the Order. Please refer to the attached map for approximate location of diversion points.

Sinker Creek Water District 57D Diversion Works Inventory, June 30, 1995

Diversion ID	Responsible Party	Control Structure	Measuring Device	Work Required, Comments
Reservoir Inlet	Hulet	N/A	10' Cipolletti weir	Weir washed out; needs to be reset.
D _{1,3} Murphy Mutual Canal	Hulet	Dam, headgate Lockable and secured	10' Cipolletti weir	Weir accurate only to 35 cfs then submerges. Control works satisfactory.
Creek Channel	Nettleton (gate) and Hulet (weir)	6' wood screw gate, lockable, not secured	5' Cipolletti weir	Both devices satisfactory.
D ₄	Nettleton	4' wood check box, not lockable	4' rectangular weir	Weir satisfactory. Check box must have locking mechanism.
D ₅ North side	Nettleton	None	3' Cipolletti weir (new)	Weir leaning downstream, inadequate weir pool. Needs material removed upstream from blade. Control works required.
D ₆ South side	Nettleton	None	3' Cipolletti weir (new)	Inadequate weir pool; needs material removed upstream from blade. Control works required.
D ₇	Nettleton	None	2' rectangular weir	Weir in poor condition: leaking, not level, submerged. Repair or replace. Control works required.
D ₈	Nettleton	None	2' rectangular weir	Weir satisfactory. Control works required.
D ₉ south side high ditch	Nettleton	None	2' rectangular weir	Weir fair; tilted downstream, needs pool slightly enlarged. Control works required.
D ₁₀ south side low ditch	Nettleton	None	2' rectangular weir	Control works required.
D ₁₁	Nettleton	None	None	Not in use. Works required for diversion.
D ₁₂	Tyson	None	1' Parshal flume	Not in use. Flume overgrown and possibly out of level. Flume maintenance and control works required for diversion.
D ₁₃	Nahas	5' W X 12' (?) concrete box, wood slide gate, not lockable	4' rectangular weir	Weir satisfactory for pipe capacity of ~4 cfs. Control works need locking mechanism at slide gate. Stockwater diversion screw gate may be locked.



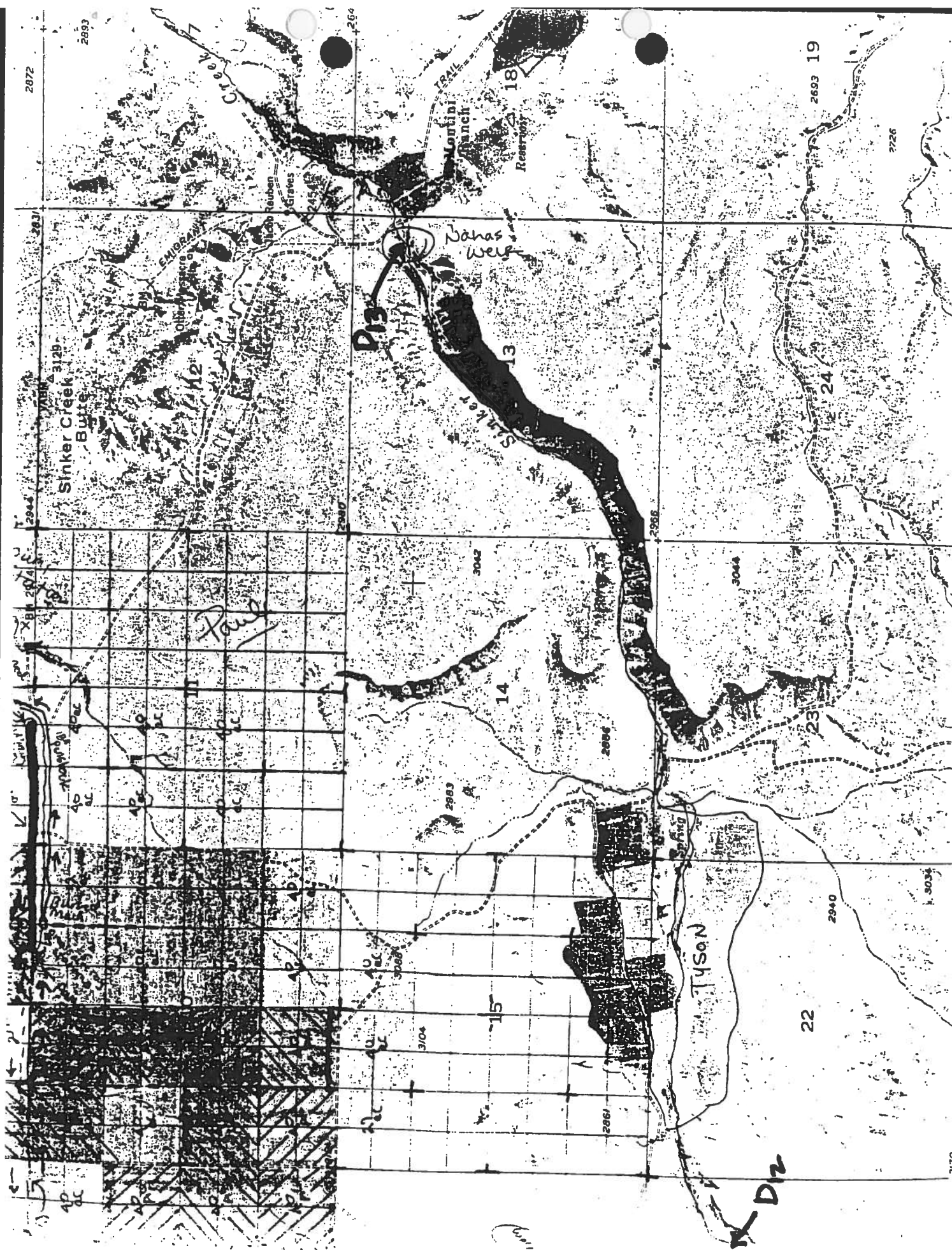
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**IDAHO DEPARTMENT OF WATER RESOURCES
--- DAM SAFETY RECORD OF INSPECTION ---**

Inspector: Sonny Hornbaker	Dam Owner: Murphy Flat Water Users	Hazard: Significant
Pool Level: Empty	NID Dam Ht: 55.3 ft	Hydraulic Ht: 51.2 ft
Reservoir Storage: 6770 acft	Surface Area: 347 ac	NAT DAM ID: ID00455
Others Present: None	Weather Conditions: Cloudy Windy	

PRIMARY DAM ▲

Type of Construction: ☒ - Earthen ☐ - Rockfill ☐ - Concrete ☐ - Timber Crib ☐ - Other:

Instrumentation: ☐ - Piezometers ☐ - Inclinometers ☐ - Seismic ☒ - Other: GPS Survey

Is there another dam, dike, or hydraulic structure impounding a portion of this reservoir? ☐ - Yes ☒ - No

If "Yes", explain:

	Seepage	Erosion	Burrows	Vegetation
Upstream Slope	Dry	Rills	Isolated Burrows	Bare to Sparse
Crest	Dry	None Observed	Numerous Burrows	Bare to Sparse
Downstream Slope	Dry	None Observed	Numerous Burrows	Dense Grass/Weeds
Downstream Toe	Dry	None Observed	Isolated Burrows	Dense Grass/Weeds
Left Abutment	Dry	None Observed	Numerous Burrows	Dense Grass/Weeds
Right Abutment	Dry	None Observed	Numerous Burrows	Dense Grass/Weeds

Observations and Remarks:

- Upstream rip rap has eroded down gradient from crest approximately 1-2 feet.
- A section of the downstream embankment fill has been removed/excavated by equipment. See photos attached.
- The facility has never filled to normal storage capacity, in fact it has never stored water for any length of time.

Condition Assessment (Unsatisfactory rating requires department action)

☐ - Satisfactory ☐ - Fair ☒ - Poor ☐ - Unsatisfactory ☐ - Not Rated (See Remarks)

Is This Structure Suitable for the Continued Impoundment of Water? ☐ - Yes ☐ - No

If "No", explain:

PRIMARY OUTLET ☐

Size/ Diameter: 36 inch **Date Last Operated:** Not known **Date Last Inspected:** 1999

Type of Conduit: ☒ - Steel ☐ - Plastic ☐ - Concrete ☐ - Cast Iron ☐ - CMP ☐ - Other _____

Location: ☐ - Left Side ☒ - Center ☐ - Right Side ☐ - Other _____

Operating Mechanism: ☒ - Manual ☐ - Electric ☐ - Gas/Diesel ☐ - Other _____

Valve/Gate: ☒ - Upstream Control ☐ - Internal Control (wet well) ☐ - Downstream Control (pressurized)

Is there another outlet or discharge feature associated with this reservoir? ☐ - Yes ☒ - No

If "Yes", explain: _____

Observations and Remarks:

- Gate is maintained in a open position year around to prevent storage.

Condition Assessment (Unsatisfactory rating requires department action)

☒ - Satisfactory ☐ - Fair ☐ - Poor ☐ - Unsatisfactory ☐ - Not Rated (See Remarks)

PRIMARY SPILLWAY ☒

Type of Construction: ☒ - Earthen ☐ - Rock ☐ - Concrete ☐ - Other _____

Location: ☒ - Left Side ☐ - Center ☐ - Right Side ☐ - Other _____

Controlled Entrance: ☐ - Yes ☒ - No If "Yes", describe: _____

Inflow Design Flood (Q=cfs): 1/2 PMF = 5155 cfs **Static Freeboard (feet):** 4.1 ft

Is an auxiliary spillway or discharge feature associated with this reservoir? ☐ - Yes ☒ - No

If "Yes", explain: _____

Observations and Remarks:

- Spillway is open and clear of blockage and will allow free flow through channel.

Condition Assessment (Unsatisfactory rating requires department action)

☒ - Satisfactory ☐ - Fair ☐ - Poor ☐ - Unsatisfactory ☐ - Not Rated (See Remarks)

Name of Dam: Hulet No. 2

IDWR File No: 57-7385A1

Date: 7/26/2010

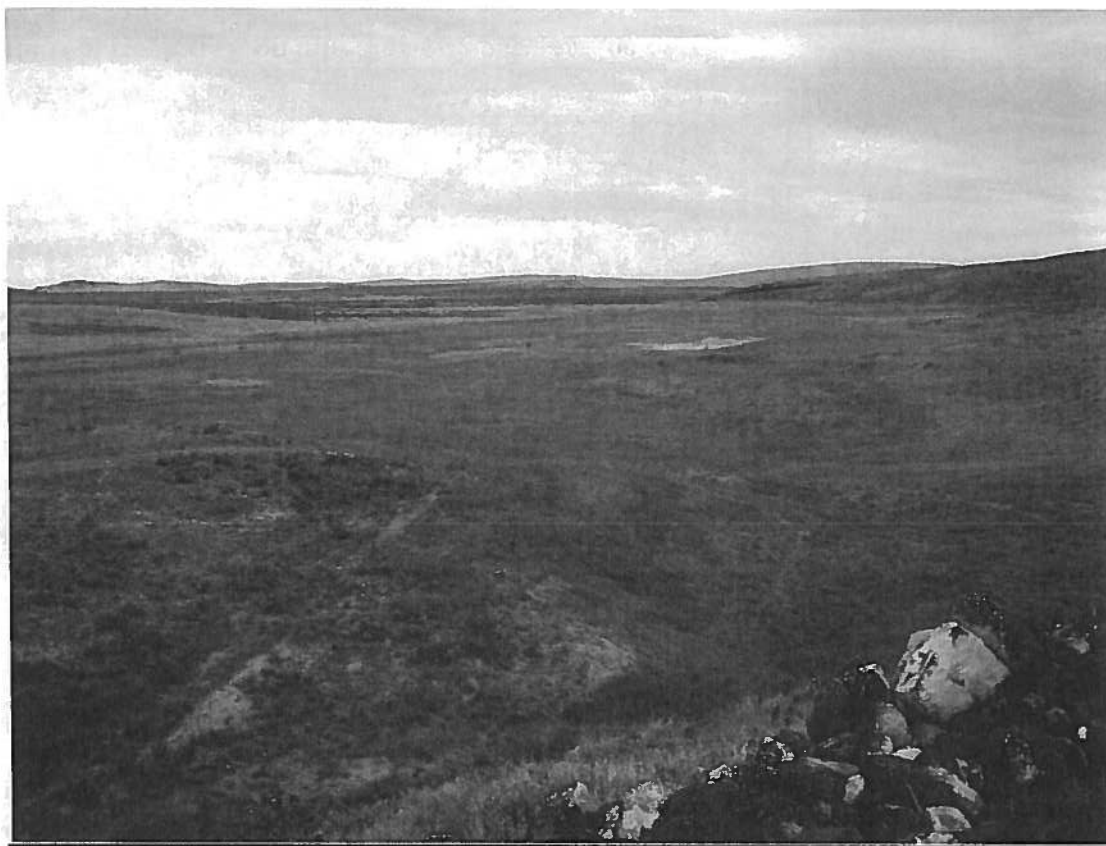
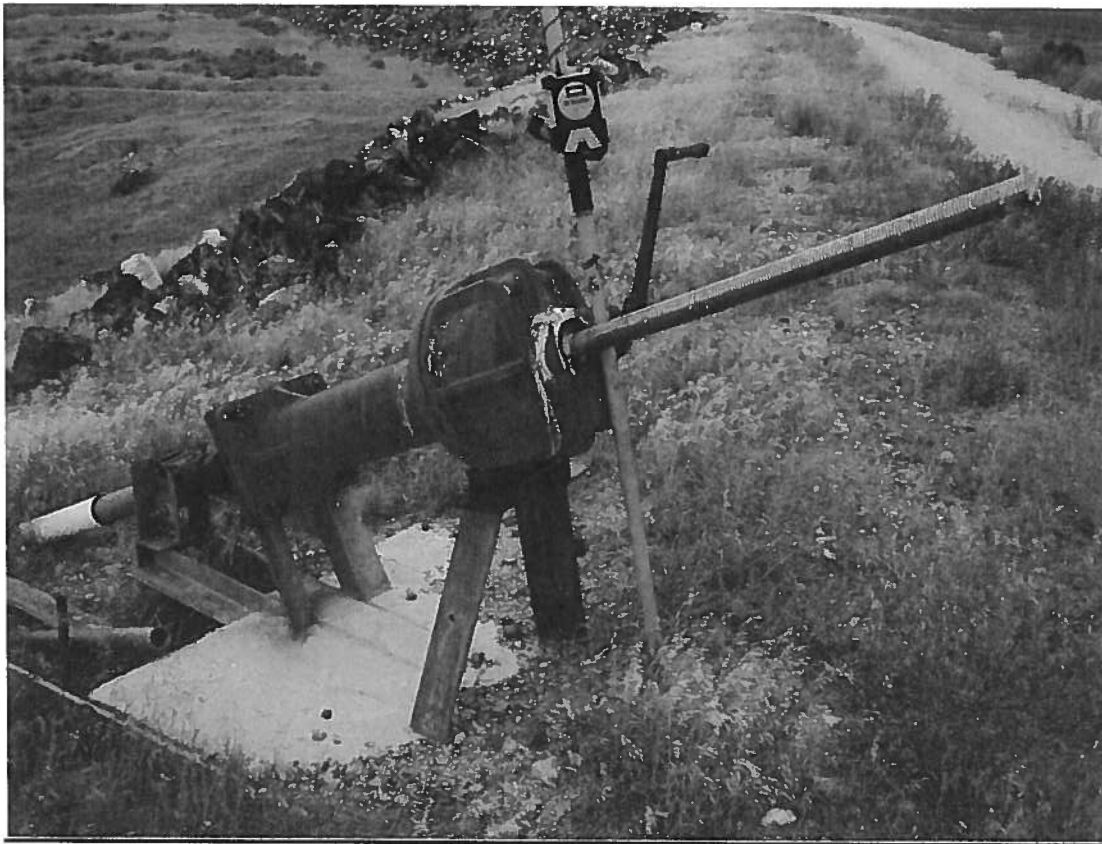


Photo of impoundment as seen from right abutment.



Photo of crest and downstream face viewing growth on embankment faces.



Outlet control works

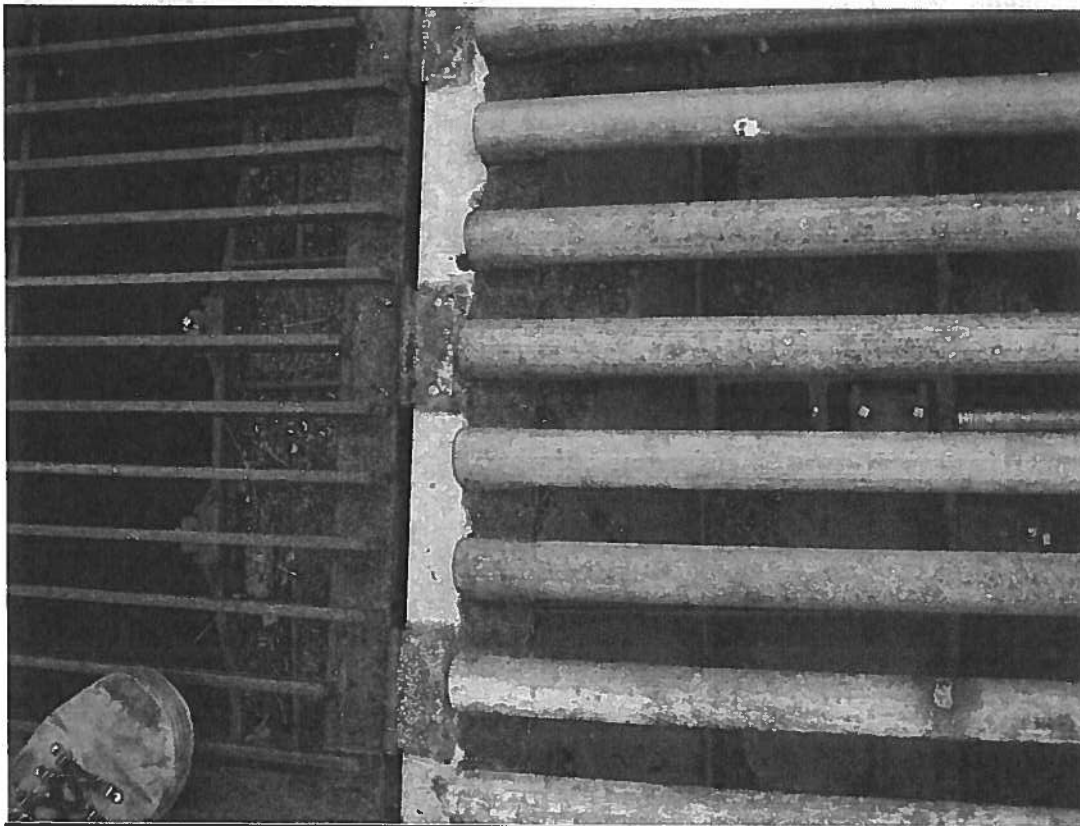
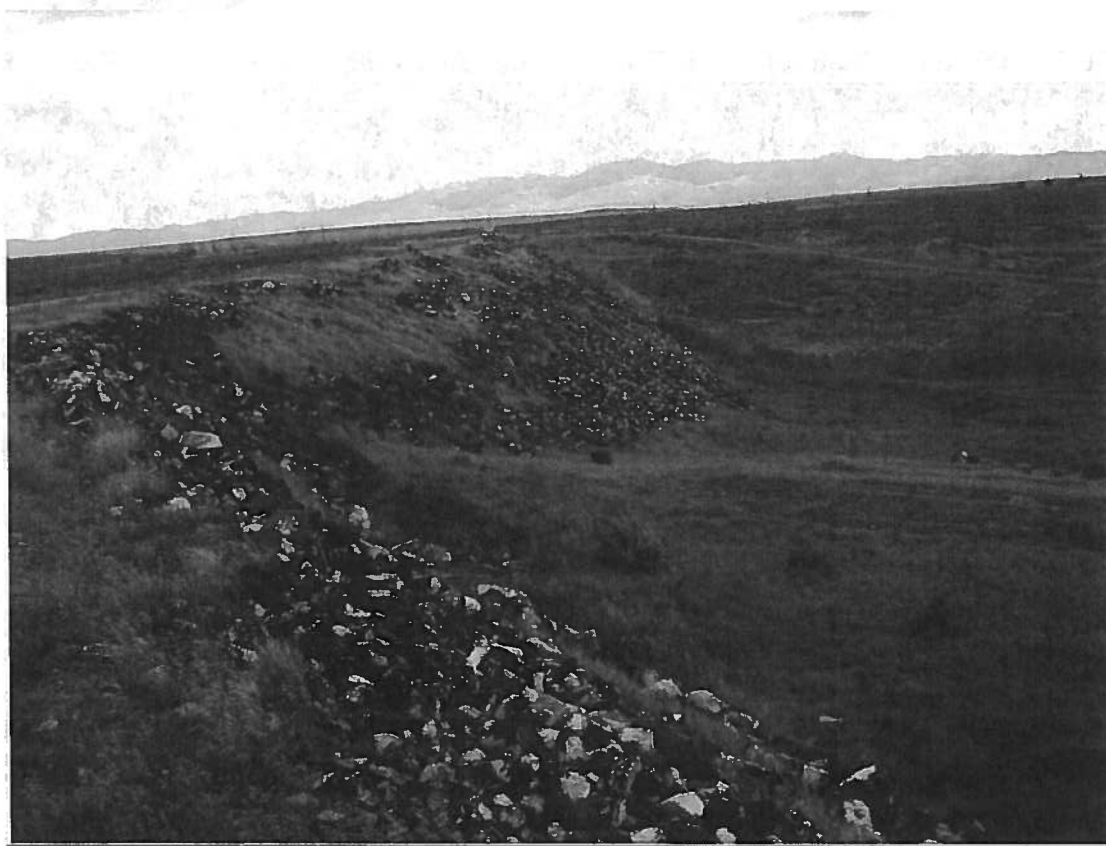


Photo of trash rack on inlet box on upstream toe of dam.



Photo of drop inlet transition from gate to pipe.



Looking southerly at upstream face of dam viewing condition of riprap



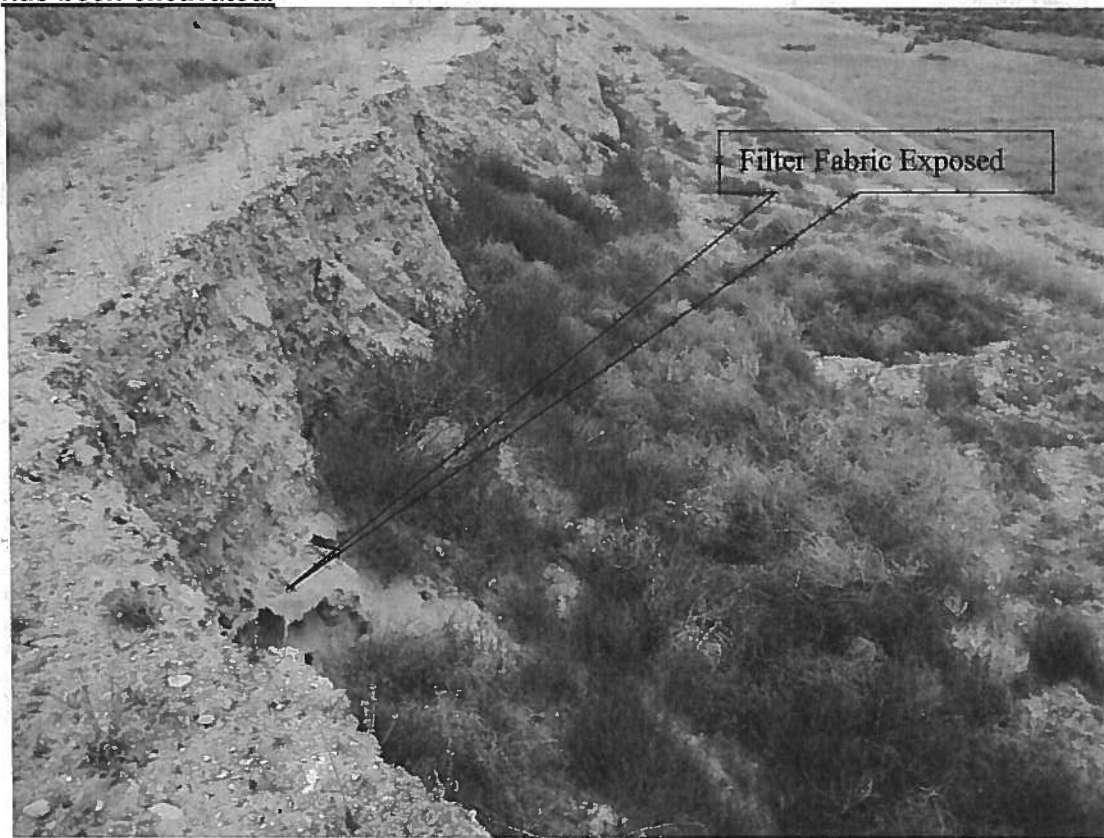
Photo of left section of embankment, riprap is gradually migrating down slope from dam crest.



Photo viewing downstream face of dam as viewed from mid way point on dam looking towards right abutment.



Photo looking southerly towards right abutment at area where removal of embankment material has been excavated.



Excavation is from roadway buttress down to toe of dam. See GPS map for location.

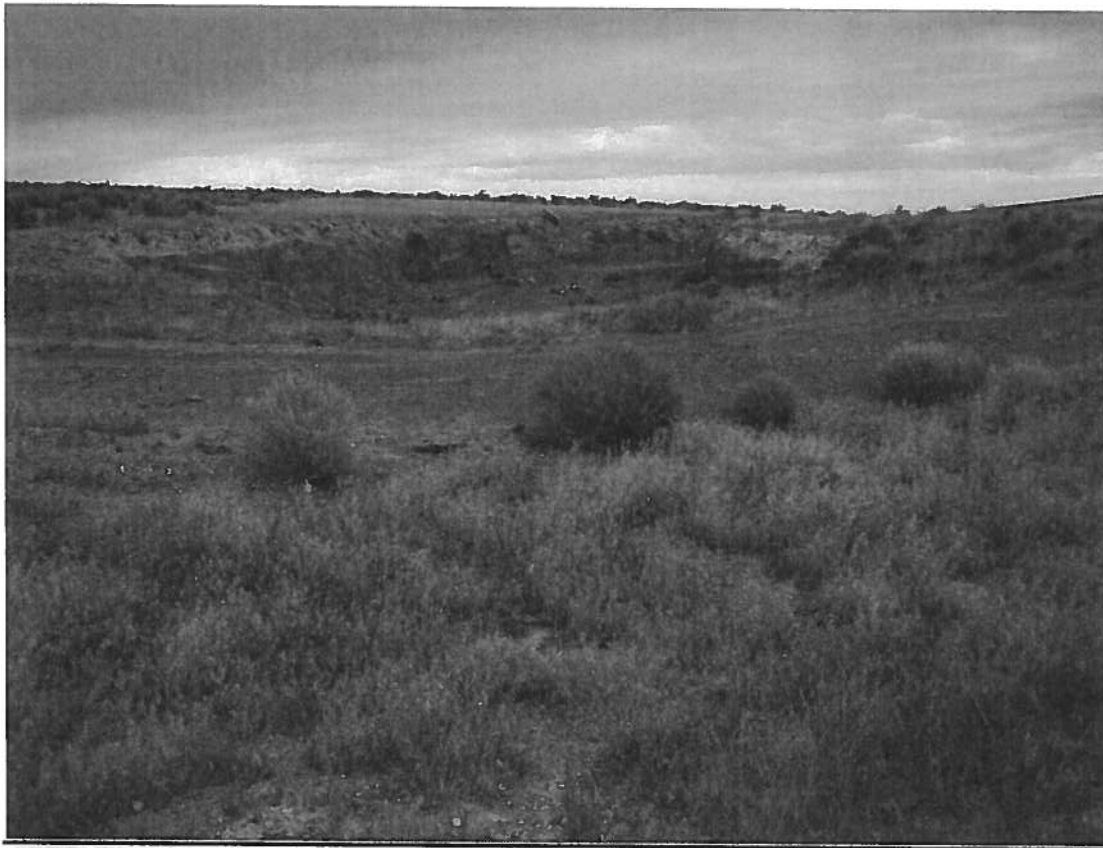


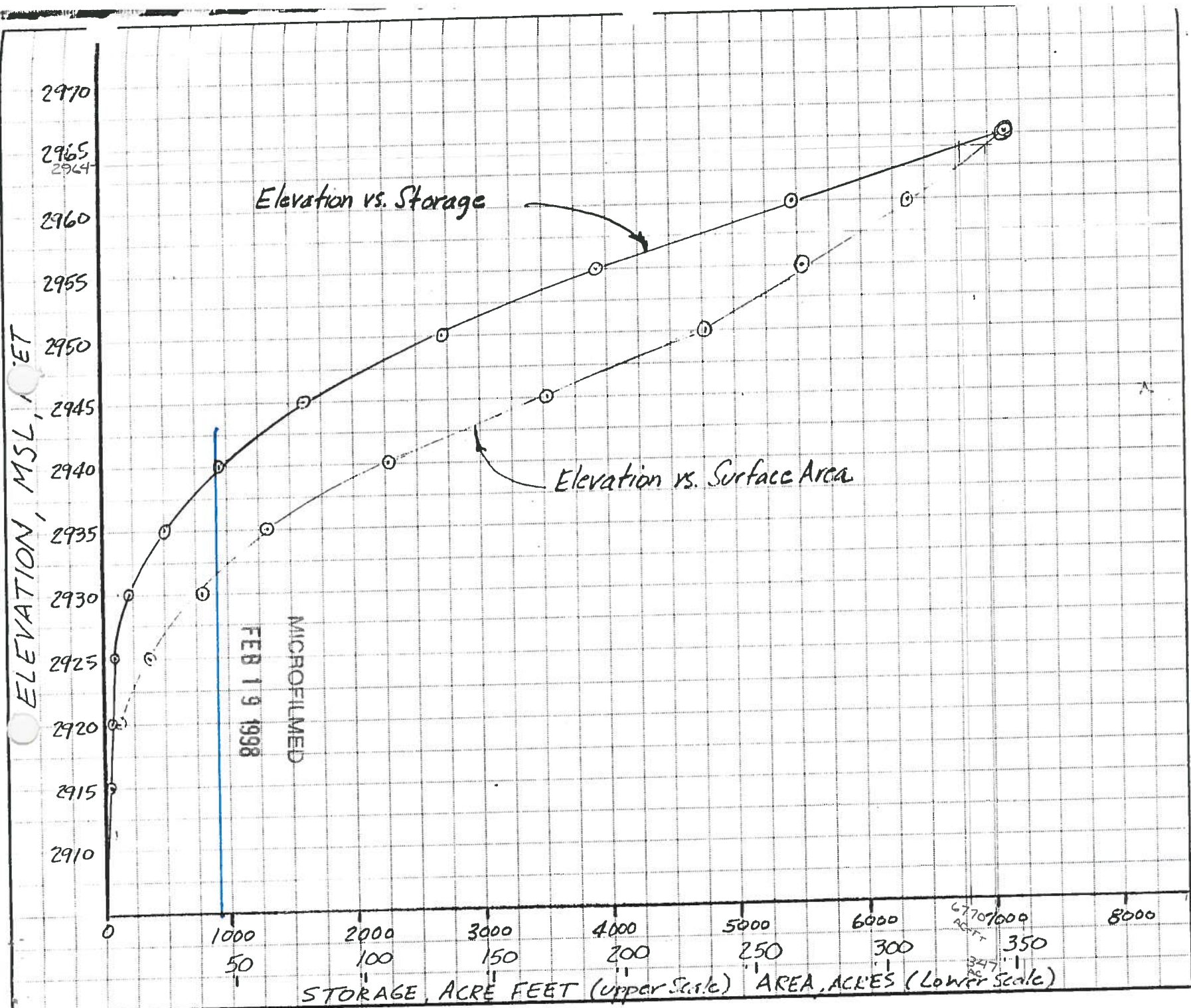
Photo of spillway inlet channel entrance.



Photo looking towards left abutment downstream slope of embankment.

KENNETH D. ROWE & A.S. JOCS.
 2312 North Cole Road
 BOISE, IDAHO 83704
 (208) 377-5704

JOB Hulet
 SHEET NO. _____ OF _____
 CALCULATED BY DWT DATE 11-24-81
 CHECKED BY _____ DATE _____



SCALE

KENNETH D. ROWE & ASSO

2312 North Cole Road
BOISE, IDAHO 83704
(208) 377-5704

JOB Mulet

SHEET NO. _____

OF _____

CALCULATED BY DNT

DATE _____

CHECKED BY _____

DATE _____

SCALE _____

Cumulative Acre Feet Storage RESV AREA

2915 1.2 0.84

2920 36.2 (19) 6.11

2925 99.2 (82) 19.00

2930 244 (227) 38.92

2935 501 (484) 63.91

2940 936 (919) 110.26

2945 1663 (1646) 180.54

2950 2708 (2691) 237.64

2955 3987 (3970) 273.79

2960 5461 (5444) 315.89

2965 7137 (7120) 354.55

2964 (6770) 346.8

(350)

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FEB 19 1998



State of Idaho

DEPARTMENT OF WATER RESOURCES

1301 North Orchard Street, Boise, ID 83706 - P.O. Box 83720, Boise, ID 83720-0098
Phone: (208) 327-7900 Fax: (208) 327-7866 Web Site: www.idwr.state.id.us

DIRK KEMPTHORNE
Governor

KARL J. DREHER
Director

September 18, 2003

Jay H. Hulet
HC 79 Box 2020
Murphy, ID 83650

RE: Pacific Land Company Dam (Storage Authorization)
Hulet No. 2 Dam (Storage Authorization)

D02-7001
D57-7385

Dear Mr. Hulet:

In accordance with Title 42, Chapter 17, Idaho Code, and the Department's Certificates of Approval, which were issued in 2003, Pacific Land Company and Hulet No. 2 Dams have been inspected and determined to be safe to impound water. Storage is hereby authorized at the dams until November 1, 2005, and is subject to the following conditions that must be adhered to:

Hulet No. 2 Dam:

- The dam and reservoir shall be operated in accordance with the approved operation plan.
- The maximum reservoir level is restricted to elevation 2940 feet msl, 30 feet below the dam crest, at all times.

The Department's recent inspection indicated the dams are in satisfactory condition and adequately maintained. The following maintenance is necessary to keep the dams operating safely:

- Spray/cut and remove large growth (willows, brush, etc.) from the upstream slope of the Pacific Land Company Dam embankment. The large growth is beginning to mature and needs to be removed before it causes damage to the fill.
- Control rodents and burrowing animal activity on both dam embankments by eradicating them as necessary and eliminating their cover. All large burrows shall be backfilled with suitable soil material, compacted in place.
- Reinstall/secure the trashrack on the outlet intake structure at Hulet No. 2 Dam.

The Department will continue to examine your projects approximately every two years to evaluate their condition and the performance of maintenance, and an approval letter will be issued authorizing storage at the dams, if they are in satisfactory condition. You will be advised of the time of the inspection prior to re-examination, and you or your agent are encouraged to attend and participate.

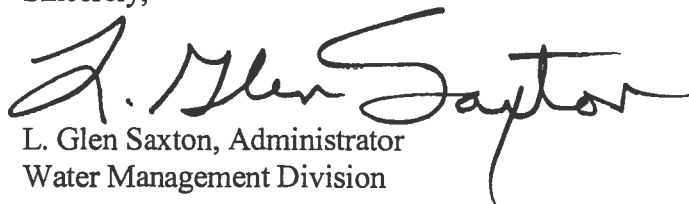
The Operation Plan for Hulet No. 2 Dam was recently revised and should be current. You should continue to review the content of the Operation Plan annually, particularly the Communications Listing (Section VI) and send any changes or revisions that are necessary to those on the distribution list, shown in Section VII, Revisions and Updates.

NOT 17 2003

Jay H. Hulet
RE: D02-7001/57-7385
Page 2
.

Should you have any questions, please contact John Westra, phone 334-2190, in our Western Regional Office in Boise, or contact Mike Stubblefield, phone 327-7952, in the State Office.

Sincerely,


L. Glen Saxton, Administrator
Water Management Division

Cc: IDWR – Western Region

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OCT 17 2003



United States Department of the Interior

BUREAU OF LAND MANAGEMENT

Lower Snake River District

Boise Field Office

3948 Development Avenue

Boise, Idaho 83705-5389

In Reply Refer To:

IDI-20054

2800

RECEIVED

APR 06 1999

WATER RESOURCES
WESTERN REGION

DECISION

Jay H. Hulet

HC 79, Box 2020

Murphy, Idaho 83650

:
:
:

Right-of-Way IDI-20054

Right-of-Way Amended

Right-of-way IDI-20054 was issued to Jay H. Hulet on December 2, 1983, for a dam and holding pond across the following described public lands:

Boise Meridian, Idaho

T. 3 S., R. 1 W.,

section 2: Lot 2, SW $\frac{1}{4}$ SE $\frac{1}{4}$.

On September 20, 1985, this right-of-way was amended to add new stipulations and covenants as well as to increase the size of the reservoir to include the following public lands:

Boise Meridian, Idaho

T. 2 S., R. 1 W.,

section 35: SW $\frac{1}{4}$ NE $\frac{1}{4}$, S $\frac{1}{2}$ NW $\frac{1}{4}$, N $\frac{1}{2}$ SW $\frac{1}{4}$, SE $\frac{1}{4}$;

T. 3 S., R. 1 W.,

section 2: NW $\frac{1}{4}$ NE $\frac{1}{4}$, NE $\frac{1}{4}$ SE $\frac{1}{4}$.

Bringing the right-of-way to a total of 221 acres. Maps submitted to the BLM on August 18, 1986, show a high water line of 2965 foot elevation.

The holder has spent the last twelve years working on making the dam operable.

Included in the 1985 right-of-way amendment were Exhibit B (Right-of-Way Stipulations) and Exhibit C (Restrictive Land Use Covenants). These Exhibits covered stipulations for mitigation of the dam and reservoir, including protection for wildlife habitat and a portion of the South

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Alternate of the Oregon Trail (Trail). The holder was to build an off-site wildlife pond to enhance habitat during certain periods of the year, fence a portion of the reservoir, create a foot/riding trail around the northern end of the reservoir, build a new road for access to the existing substation, provide a protective easement across a portion of the Trail on private lands, recontour certain roads that would be unusable because of the reservoir, and do some seeding. Exhibit C, Covenant I. B. 2., and Covenant C., specifically state that until the holder has met these stipulations, or until other satisfactory arrangements have been made, no water will be diverted into or stored in the reservoir.

In the spring of 1996, the Idaho Department of Water Resources (IDWR) issued a temporary storage permit for testing the dam structure. The storage permits for 1996, and 1997, allowed the holder to fill to the dead level storage elevation.

Of particular concern to the BLM are the stipulations for the protective easement for the Trail, the road to the Idaho Power (IPC) substation and the wildlife pond. However, as of this date, none of the stipulations of this right-of-way have been met satisfactorily. For the last two years the BLM has been in regular contact with you by way of letter/decisions, telephone calls and field visits.

On April 29, 1998, you were sent a decision placing you in non-compliance with your right-of-way stipulations.

The stipulations and the elevation of the reservoir have been discussed several times with Kelley Moore, ORA Realty Specialist. You have stated you are willing to work with the BLM as much as you can, but feel that some of the stipulations as they now stand, are not reasonable. In order to resolve this situation, Kelley went over some of the stipulations with you. You agreed to amend the reservoir level down to the 2940 foot elevation; and, to perform wildlife mitigation measures around an existing irrigation pond authorized under right-of-way IDI-015908. By amending to the 2940 foot elevation, the reservoir will not impact the protected portion of the Trail and will leave the IPC substation road intact. In light of this agreement to amend the elevation of the reservoir and take other mitigation measures, we have amended the original stipulations to this right-of-way.

Therefore, pursuant to the Federal Land Policy Management Act of 1976 (FLPMA), right-of-way IDI-20054 is hereby amended as follows:

- a. This authorization is amended to take the reservoir down to the 2940 foot elevation. The legal description of this right-of-way across public lands is:

Boise Meridian, Idaho

T. 2 S., R. 1 W.,

section 35: SE $\frac{1}{4}$ NE $\frac{1}{4}$ SW $\frac{1}{4}$, SW $\frac{1}{4}$ NW $\frac{1}{4}$ SE $\frac{1}{4}$, W $\frac{1}{2}$ SW $\frac{1}{4}$ SE $\frac{1}{4}$; (within)

T. 3 S., R. 1 W.,

section 2: Lot 2, N $\frac{1}{2}$ SW $\frac{1}{4}$ SE $\frac{1}{4}$; (within)

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for a total of 25.39 acres within the above described legal description as shown on the attached Exhibit A.

- b. This amendment will be subject to the stipulations attached as Exhibit B, as well as the applicable 43 CFR 2800 regulations. These Exhibit B stipulations will replace the special stipulations and covenants attached to the right-of-way amendment authorization dated September 20, 1985.

Jay H. Hulet

Date

Daryl L. Albiston, Owyhee Area Manager

Date

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JUN 07 1999

SPECIAL RIGHT-OF-WAY STIPULATIONS
IDI-20054

1. Maximum storage level in this reservoir shall be the 2940 foot elevation. Holder shall install a reservoir staff gauge and submit a certificate of correct installation to this office. NEW RESTRICTED LEVEL
↙
2. Holder shall provide to the BLM a 200 foot wide by one-quarter mile long protective easement on the portion of Oregon Trail in the SW $\frac{1}{4}$ SW $\frac{1}{4}$, section 35, T. 2 S., R. 1 W., Boise Meridian, Idaho. As mitigation to the portion of Oregon Trail on public lands that will be inundated, at no time will the portion of Trail protected by the easement be under water. Violation of this stipulation will cause this right-of-way to be subject to termination.
3. Holder shall install 2 elevated nesting platforms around the irrigation pond authorized under IDI- 015908. One platform shall be on the south side of the pond and one platform shall be on the east side of the pond, both platforms shall be at or near the high water level. Holder shall meet with area wildlife biologist to determine the exact locations of the platforms.
4. Water level in the pond, IDI-015908, shall be maintained at or near the line of existing woody riparian vegetation, (as shown in the pictures dated 4/11/97), each year from April 1 to July 31 and as close to that level as possible for the remainder of each year, in particular the late summer and early fall.
5. Areas of the south and east sides of the pond, IDI-015908, shall be fenced to protect vegetation from livestock grazing/disturbance and to reduce disturbance to wildlife using this vegetation for cover during the winter grazing period, while still allowing for livestock watering. The holder shall contact the area wildlife biologist to set up a time to flag for the fencing required.
6. No vegetation or other type of site disturbance will be permitted without prior BLM authorization.
7. The holder will file proof of compliance within 30 days of meeting these stipulations but no later than one year of the date of this amendment.

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JUN 07 1999

8. Holder shall be in good standing with the Idaho Department of Water Resources (IDWR) for the purposes of water rights, storage permits and dam safety.
9. Under no circumstances shall water be diverted to or stored on the public lands contained in this reservoir right-of-way (including those public lands at the southern tip of the dam) until these stipulations have been complied with and field checked by BLM staff. To do so will put this authorization in a non-compliance status, and therefore subject to immediate suspension and/or termination.
10. Use of pesticides, herbicides and rodenticides shall comply with the applicable Federal and State laws, and only in accordance with their registered uses.
11. The holder shall indemnify the United States against any liability for damage to life or property arising from the occupancy or use of public lands under this grant.
12. The holder shall notify the authorized officer of any change of mailing address.
13. The United States retains the right to authorize use of the right-of-way for other compatible uses (including the subsurface and air space).
14. Any cultural and/or paleontological resource (fossil(s) or historic or prehistoric site or object) discovered by the holder, or any person working on his behalf, on public land shall be immediately reported to the authorized officer. Holder shall suspend all operations in the immediate area of such discovery until written authorization to proceed is issued by the authorized officer. The holder will be responsible for the cost of evaluation, and any decision as to proper mitigation measures will be made by the authorized officer after consulting with the holder.
15. The holder shall indemnify the United States against any liability for damage to life or property arising from the occupancy or use of public lands under this grant or permit.
16. The holder(s) shall comply with the Toxic Substances Control Act of 1976 as amended, 15 U.S.C. 2601 et seq. (1982) with regards to any toxic substances that are used, generated by or stored on the right-of-way or on facilities authorized under this right-of-way grant. (See 40 CFR Part 702-799 and especially, provisions on polychlorinated biphenyls, 40 CFR 761.1-761.193.) Additionally, any release of toxic substances (leaks, spills, etc.) in excess of the reportable quantity established by 40 CFR Part 117 shall be reported as required by the Comprehensive Environmental Response, Compensation, and Liability Act, section 102b. A copy of any report required or requested by any Federal

MICROFILMED

JUN 07 1999

agency or State government as a result of a reportable release or spill of any toxic substances shall be furnished to the authorized officer concurrent with the filing of the reports to the involved Federal agency or State government.

17. The holder agrees to indemnify the United States against any liability arising from the release of any hazardous substance or hazardous waste (as these terms are defined in the Comprehensive Environmental Response, Compensation and Liability Act of 1980, 42 U.S.C. 9601, et seq. or the Resource Conservation and Recovery Act, 42 U.S.C. 6901, et seq.) on the right-of-way (unless the release or threatened release is wholly unrelated to the right-of-way holder's activity on the right-of-way), or resulting from the activity of the right-of-way holder on the right-of-way. This agreement applies without regard to whether a release is caused by the holder, its agent, or unrelated third parties.

I agree to comply with the above stipulations.

Jay H. Hulet

Date

MICROFILMED
JUN 07 1999

MEMORANDUM

TO: MANUEL RAUHUT

FROM: DANIEL A. NELSON

DATE: 1/6/2006

SUBJECT: SINKER CREEK RESERVOIR FIELD CHECK

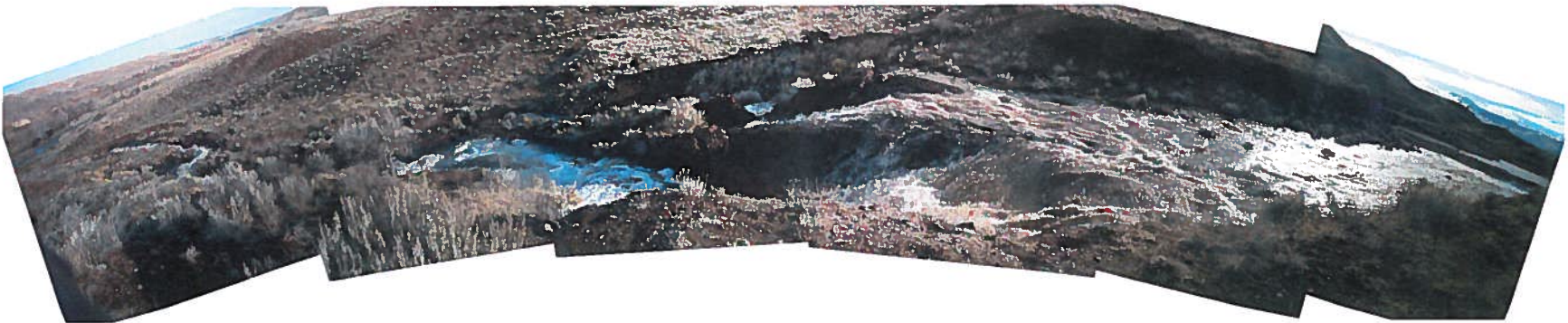
On 1/4/2006, I was asked to check the Hulet Reservoir on Sinker Creek. During my field visit, I discovered that the reservoir was completely full, and was spilling well over 25 cfs of water. The water in the reservoir was approximately 13 feet from the crest of the dam. The owners of the reservoir and Paul Nettleton were also discharging approximately 25 cfs through the dam turnout. Some of this water was being transported through the canal to Hulet's other reservoirs on Murphy Flat, and the rest of the water was being run out over Nettleton's fields to help dissipate some of the energy in the Creek.

You can see in my photos that the creek has washed out some of the Nettleton's road, and it is flowing at a very high rate of flow. You can also see in my pictures that there is still a good quantity of snow in the Owyhee Mountains, so this reservoir could continue to spill throughout the rest of the spring, and if there is another high runoff event, there won't be anywhere for the water to go, but over the spillway and down the creek channel. According to Mike Ihli, the reservoir was only about $\frac{1}{4}$ full when the recent flood event took place, and the reservoir filled within 10 hours. I doubt this is possible, but I do feel that the $\frac{1}{4}$ of reservoir did fill in that amount of time.

I strongly recommend that if another large flood event happens in Owyhee County, that someone is sent to monitor the reservoir and the creek below. With the reservoir full, there is nothing to take the head off the flows in the creek, and Highway 78 and other downstream homes, farms, and other facilities could easily be flooded.

PHOTOGRAPHER AND DATE OF PHOTOS DANIEL A NELSON 1/3/2006

FILE NUMBER Dam Safety Check Hulet Reservoir



The photos above are of the Hulet Reservoir and spillway. The top photo is of the reservoir, and as you can see it is full. In the background you can see the Owyhee Mountains, which are still well covered in snow. The bottom picture is of the spillway. As you can see it is flowing at fairly heavy flows. I estimated the flows at well over 25 cfs, but couldn't determine the exact flow.

PHOTOGRAPHER AND DATE OF PHOTOS DANIEL A NELSON 1/3/2006

FILE NUMBER Dam Safety Check Hulet Reservoir



The top photo shows ice and debris building up by the spillway of the reservoir. This could become a more significant problem if the ice and debris clog the spillway. The bottom photo shows the measurement I made of the water to crest of the dam. The measurement was 13 feet.



PHOTOGRAPHER AND DATE OF PHOTOS DANIEL A NELSON 1/3/2006

FILE NUMBER Dam Safety Check Hulet Reservoir



The top photo shows the valley below the reservoir. As you can see, the creek and the feeder canal are at full flows. The Hulet's are siphoning off some of the flows from the reservoir into the canal and sending it to storage ponds on their property. Although they are doing this for later irrigation benefits, it is actually a good idea to remove as much water from the creek channel as possible. Later pictures will show why.

The bottom picture shows a drain in the reservoir. It seems to be flowing normally when compared to previous information supplied in the dam safety file included in the 1998 report.

PHOTOGRAPHER AND DATE OF PHOTOS DANIEL A NELSON 1/3/2006

FILE NUMBER Dam Safety Check Hulet Reservoir



These photos show the flows being diverted out of the dam turnout. The pictures on the top show the water being diverted down the canal, and the pictures on the bottom show the water being diverted down Nettleton's ditches. They are attempting to relieve a little of the pressure on the spill way by running a portion of the water through these conveyances. I estimated the amount of flowing this direction to be approximately 25 cfs. I feel this is a very good idea, because the water in the canal is not going over Highway 78 through the creek channel. This will probably give more storage to canal users, but in the long run, I feel it is the best for all. This should help prevent any washouts down stream of the dam. There has been concern that the creek may wash out Highway 78. The water being diverted through Nettleton's ditches, is being spread over his fields. This will help his soil moisture, and possibly allow some of that water to be soaked into the ground instead of running down the creek channel. All of these techniques should help prevent further damage.

PHOTOGRAPHER AND DATE OF PHOTOS DANIEL A NELSON 1/3/2006

FILE NUMBER Dam Safety Check Hulet Reservoir



These photos are of Sinker Creek downstream of the dam. As you can see from the top photo, the stream has quite a flow of water going through the channel. The bottom photo shows where the stream has washed out a portion of the road to the Joyce Ranch.



PHOTOGRAPHER AND DATE OF PHOTOS DANIEL A NELSON 10/3/2012

FILE NUMBER 57-7385



The photo above shows the control valve that diverts the water from the upper ponds into the Murphy Flat Reservoir #2. This Pipeline is the same line used to pump water from Regulation Pond #4 back up the hill to the irrigation system. The photo below shows the pumping station used to pump water from Regulation Pond #4 back up hill to the irrigation system. Regulation Pond #4 is in the background. Please note that one of the 7 pumps was out for maintenance.



PHOTOGRAPHER AND DATE OF PHOTOS DANIEL A NELSON 10/3/2012

FILE NUMBER 57-7385



This is a photo of the Murphy Flat Reservoir #2 used under the storage component of this permit. The water comes in on west side of the reservoir, and it is diverted back into the Regulation Pond 4 shown below through a pipeline in the middle of the dam.

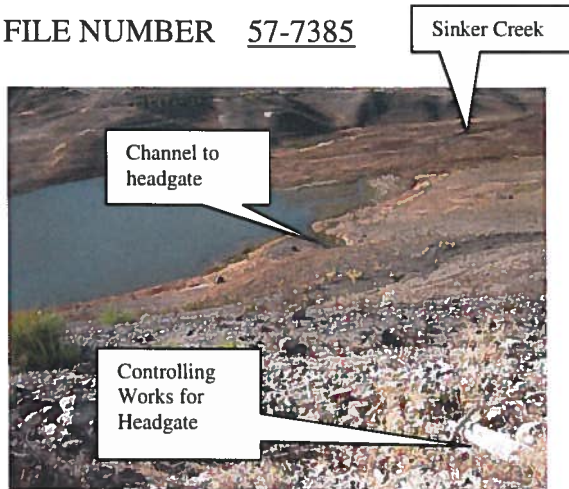


This photo shows the dam between the Murphy Flat Reservoir #2 and Regulation Pond #4. Regulation Pond #4 is shown in the foreground. Murphy Flat Reservoir #2 is on the other side of the berm. The water from Murphy Flat Reservoir #2 is diverted through a pipeline through the dam into Regulation Pond #4 and pumped back up to the irrigated fields. The canal coming in on the right side of the photo is the canal delivering Snake River water to the property. All of the Murphy Flat Reservoir #2 water and the Snake river water must go through regulation Pond # 2 to be pumped up to the irrigated fields. The headgate on the dam between the two reservoirs controlling the water being drained out of the Murphy Flat Reservoir #2 is shown below.

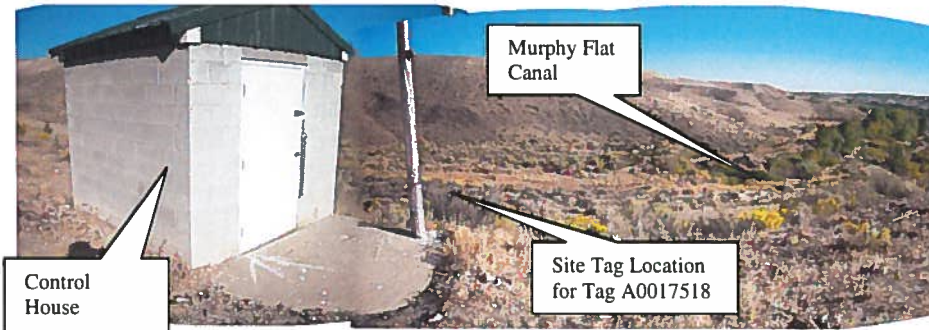


PHOTOGRAPHER AND DATE OF PHOTOS DANIEL A NELSON 10/3/2012

FILE NUMBER 57-7385



The photo to the left shows the main Murphy Flat Reservoir on Sinker Creek. This is also the point of diversion for this permit. The water diverted from the creek through the small channel shown at the bottom of the reservoir, and goes through a pipeline through the dam to the canal. The headgate control house is located on top of the dam, and you can see the controls traveling down the dam face to the diversion point. This is not the reservoir associated with this permit.



The above photo shows the control house and the canal. This photo was taken on top of the main Murphy Flat reservoir dam at the point of diversion.



This photo shows the exit point of the dam the flows through the Main Murphy Flat Storage Reservoir at the point of diversion. This could be considered the point of diversion. The channel to the left is the starting point of the Murphy Flat Canal. The headgate in the foreground goes to Joyce Ranch, which is not associated with this permit.