

MEMORANDUM

Date: August 1, 2008
To: Water Right File 37-7857, 37-7865 and 37-7922
From: medl
Re: *received on May 15, 2008*

This mailing is the supporting documents in response to Dept question whether the operator of this project was cooperating with watermaster and FERC.



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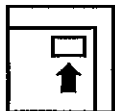
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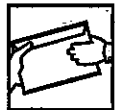
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From:/Expéditeur:

Allen Ranscraft
1331 Shearstring Rd
Bliss, Id 83814

To:/Destinataire:

WA
Michele Edl
Idaho Dept of Water Resources
322 E. Front St.
P.O. Box ~~83720~~ 83720
Boise, Id 83720-0098

Country of Destination:/Pays de destination:



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May 14, 2008

RECEIVED

MAY 15 2008

DEPARTMENT OF
WATER RESOURCES

Michele Edl
IDWR
322 E. Front St.
Boise, Idaho 83720

Dear Michele:

I have enclosed all my correspondence with FERC pertaining to the water flow at the Ravenscroft power plant. In reading through them you will find that IDWR has been kept in the loop, but it has been sent to the water master in Shoshone. He should have on record paper work covering a longer period than I have enclosed, since I have been involved.

As far as I know the last compliance issues as far as water flow with my father and FERC were resolved in the 1994-1995 time frame. When my father died October 29, 2004 there were two issues unresolved that I know about. He had not completed a new river flow table for the section of the river our gauge is on. He had also not removed the dams built buy the beavers that were causing gauging problems.

I had the beaver dam problem taken care in February 2005 and had a river flow table by May 2005. I provided a new river flow table in 2006 as well after the heavy flood waters changed the river channel. I continue to work on the beaver problem each year by paying trappers to remove as many beaver as they can trap during normal trapping season.

When can we move forward with the amendments for our other two water permits to get them on the path to license as well?

I greatly appreciate all your help.

Sincerely,


Allan Ravenscroft

February 28, 2005

Project # 4055-036-Idaho
Ravenscroft Ranch Project

The Secretary
FERC
Mail Code PJ-12.3
888 First St., NE
Washington, D.C. 20426

Dear Mr. Yarrington:

This letter is in follow up to our phone conversation in January and your letter of February 3, 2005. As we talked about my father died October 29, 2004. I have taken over as manager of the project as well as Personal Representative for his estate.

In response to your letter of February 3, 2005 I have taken the following actions:

1. On February 21, 2005 myself and three teenagers, by hand removed two beaver dams below the gauge and parts of four dams above the gauge. By the old tables, we have more than the required 5 cfs flowing in the river.
2. Kevin Lakey, the current water master and I are starting Wednesday March 2 nd a series of new measurements to recalibrate the river at the gauge. Working with Kevin will be of a big advantage particularly in higher water, since we can then directly compare our readings with the up stream gauge. The amount of higher water again will be a big question. We will not be able to work on this part of the measurement until after April 15 and then see what water we have to measure. In the mean time we will take 3 or 4 readings at the low water levels, to see how they compare. We are currently at only 66% of normal on the Big Wood River drainage which is even lower than last year.
3. I have talked to David Skinner of the Wood River RC&D beaver committee. They are willing to start live trapping of beaver in April. We are to get back in contact at that time to work out the details.
4. In the mean time I have a kill permit from the fish and game to take care of current needs. I will be patrolling this section of the river on regular bases to make sure the gauge stays open.

5. My contact information is Allan Ravenscroft; 1331 Shoestring Road; Bliss, Idaho 83314. My phone number is 208-837-9013 and email araven@tuttle.myrf.net

Coming in to this in the middle of on going concerns, I don't know if I have answered or addressed everything at this time. If there is something I have left out or do not have a plan in place please let me know.

Sincerely,

Allan Ravenscroft

cc. David Parrish
Idaho Dept of Fish and Game
868 East Main Street
P.O. Box 428
Jerome, ID 83338-0428

Watermaster
Idaho Dept of Water Resources
P.O. Box T
Shoshone, ID 83352

Gary Wright
Bureau of Land Management
P.O. Box 2-B
Shoshone, ID 83352

Jeffrey Foss
Snake River Field Office
U.S. Fish and Wildlife Service
1387 South Vinnell, Suite 368
Boise, ID 83709

FEDERAL ENERGY REGULATORY COMMISSION
Washington, D.C. 20426

OFFICE OF ENERGY PROJECTS

Project No. 4055-036 -- Idaho
Ravenscroft Ranch Project
Vernon F. Ravenscroft

Mr. Allan Ravenscroft
1328-B Shoestring Road
Bliss, ID 83314

February 3, 2005

Subject: Minimum flow monitoring accuracy; Requested actions

Dear Mr. Ravenscroft:

We received your October 20, 2004 report regarding minimum streamflow monitoring at the Ravenscroft Ranch Project. You filed the report in response to our August 13, 2004 letter to you, in which we requested plans and a schedule for the installation of streamflow gaging equipment at the project.

Exemption Requirements and Background

The project's minimum flow requirements, stipulated in the Commission's July 23, 1996 Order Amending Exemption Article 2 Terms and Conditions, are 5 cubic feet per second (cfs) July 1 through April 15, and 80 cfs April 16 through June 30.¹ The flows are monitored using a river stage recorder and stage/discharge table.

In correspondence with you beginning in 2002, we have requested that you verify the project's minimum flow stage/discharge accuracy in order to ensure that required minimum flows are being released. The stage/discharge relationship table now being used is over 10 years old. Through a series of reports, you have kept us informed of your efforts to obtain flow measurements in the range of the minimum flow requirements. Your efforts have been hampered by continued low inflows. In a May 17, 2004 report, you informed us that measurements taken May 7, 2004 indicated that the existing stage/discharge relationship may no longer be accurate at higher flows. You proposed to install a suitable weir in the bypass reach in order to regain minimum flow monitoring accuracy. We responded in an August 13, 2004 letter and requested that you file plans and a schedule for the installation of new streamflow gaging equipment, to include copies of comments from the Idaho Department of Fish and Game (IDFG), Idaho Department of Water Resources (IDWR), Bureau of Land Management (BLM), and the U.S. Fish and

¹ 76 FERC ¶ 62,052 (1996).

Wildlife Service (FWS). We also requested that you continue to use your existing equipment to ensure minimum flow compliance until other equipment is installed and rated.

Exemptee's Report

In your October 20, 2004 report, you indicated that you were pursuing a plan to install and use a fixed weir on the west wing of your diversion structure to monitor minimum flows, rather than attempting to continue to use your existing gaging station, the accuracy of which has been affected by ongoing beaver activity. You stated that you had requested comments from the IDFG, IDWR, BLM, and the FWS.

You reported that you had received a response from the IDWR via telephone. That agency suggested that the U.S. Army Corps of Engineers may have jurisdiction in the issue. In an October 6, 2004 letter, the IDFG recommended removing beaver and their dams upstream and downstream of the current gaging location immediately to address the gaging problem. The IDFG indicated that this would eliminate the need to construct a weir. The IDFG provided telephone contact numbers regarding beaver removal. In a letter also dated October 6, 2004, the BLM indicated that it continues to support the current gaging station location. The BLM recommended that you contact the IDFG regarding assistance removing the beaver population, and then remove the beaver dams. Both the IDFG and the BLM indicated that retention of the current gaging location in the bypass reach is best for protection of local resources.

You wrote in your report that you have been in contact with a local trapper, and that you would attempt to rehabilitate the existing gaging location. You said that, if the beaver return as rapidly as they have in the past, you would again seek to install a weir at the dam. You indicated that this would be necessary for both gaging accuracy and expense.

You requested concurrence with a plan to file a progress report in January 2005, and that necessary actions be determined based upon what is known at that time. You indicated that you would ask the trapper to give priority to the rated gaging area in the bypass, and that you would have a backhoe operator clean the beaver dams from the area.

Requested Actions

Thank you for your October 20, 2004 report, and your efforts to maintain streamflow gaging accuracy at the project. Please file, within 30 days of the date of this letter, a report on the actions that you have taken regarding streamflow gaging accuracy

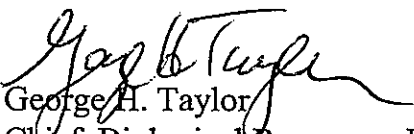
since October 2004, and descriptions of any further actions you plan to take in the immediate future. Please include any available information on current streamflow gaging accuracy, and copies of any further consultation you have had with the resource agencies.

The requested report needs to indicate that you will file, by April 15, 2005, a plan, for Commission approval, to either (1) maintain the current streamflow gaging location, including a description and schedule for ongoing beaver control methods and copies of an accurate stage/discharge chart and table, or (2) install, rate, and maintain alternate minimum streamflow gaging equipment. Any plan to use a method other than the current method would need to include copies of letters of agreement from the IDFG, IDWR, BLM and FWS.

Please note that, regardless of the actions you take regarding your monitoring methods, you need to continue to monitor and ensure minimum flow compliance during project operation. You also need to continue to report any minimum flow deficiencies to the Commission and resource agencies as soon as possible, and file annual minimum flow monitoring reports with the Commission, as originally indicated in our September 12, 2000 letter to you.

We appreciate your efforts regarding these issues. If you have any questions, please contact Pete Yarrington at (202) 502-6129.

Sincerely,


George H. Taylor
Chief, Biological Resources Branch
Division of Hydropower Administration
and Compliance

cc: David Parrish
Idaho Department of Fish and Game
868 East Main Street
P.O. Box 428
Jerome, ID 83338-0428

Watermaster
Idaho Department of Water Resources
P.O. Box T
Shoshone, ID 83352

Gary Wright
Bureau of Land Management
Shoshone Field Office
P.O. Box 2-B
Shoshone, ID 83352-1522

Jeffrey Foss, Supervisor
Snake River Field Office
U.S. Fish and Wildlife Service
1387 South Vinnell, Suite 368
Boise, ID 83709

FEDERAL ENERGY REGULATORY COMMISSION
Washington, D.C. 20426

OFFICE OF ENERGY PROJECTS

Project No. 4055-036 -- Idaho
Ravenscroft Ranch Project
Vernon F. Ravenscroft

Mr. Allan Ravenscroft
1331 Shoestring Road
Bliss, ID 83314

March 21, 2005

Subject: Minimum flow monitoring accuracy; Request for progress report and
streamflow gaging plan

Dear Mr. Ravenscroft:

We received your February 28, 2005 report on your efforts to maintain minimum flow gaging accuracy at the Ravenscroft Ranch Project. You filed the report in response to our February 3, 2005 letter to you, in which we requested this information.

Exemption Requirements and Background

The project's minimum flow requirements, stipulated in the Commission's July 23, 1996 Order Amending Exemption Article 2 Terms and Conditions, are 5 cubic feet per second (cfs) July 1 through April 15, and 80 cfs April 16 through June 30.¹ The flows are monitored using a river stage recorder and stage/discharge table.

In correspondence beginning in 2002, we have requested verification of the project's minimum flow stage/discharge accuracy in order to ensure that required minimum flows are being released. The stage/discharge relationship table now being used is over 10 years old. When repeated attempts to obtain flow measurements in the range of the minimum flow requirements failed, we requested, in an August 13, 2004 letter, plans and a schedule for correcting the problem. We requested that any plans include copies of comments from the Idaho Department of Fish and Game (IDFG), Idaho Department of Water Resources, Bureau of Land Management (BLM), and the U.S. Fish and Wildlife Service. We also requested that minimum flow compliance be ensured until other equipment is installed and rated.

In your October 20, 2004 report, you indicated that you planned to install a fixed weir to monitor minimum flows, because beaver activity continues to affect the accuracy

¹ 76 FERC ¶ 62,052 (1996).

of your existing gaging station in the project bypass. However, the IDFG and BLM both supported retention of the current gaging location, and the removal and control of the beaver and their dams. The IDFG provided telephone contact numbers to use regarding beaver removal. You indicated that you would file a progress report in January 2005.

Exemptee's Report

In your report, you informed us of the death of your father, Vernon Ravenscroft, and informed us that you are currently the contact person for the project.²

You indicated that, on February 21, 2005, you removed two beaver dams downstream of the streamflow gage, and parts of four dams from upstream. You wrote that the local beaver control committee will begin beaver trapping in April. You indicated that you have obtained a beaver kill permit, and that you will patrol the project area regularly to ensure the gage area remains open.

You further indicated that you will begin taking a new set of flow measurements with the assistance of the local Water Master on March 2, 2005, in order to recalibrate the minimum streamflow gage.

Requested Actions

Thank you very much for your February 28, 2005 report. It is clear that you are working to ensure compliance with the exemption for the Ravenscroft Ranch Project.

Please file, by April 30, 2005, an update on your progress in beaver control and the production of a new stage/discharge table. The progress report should summarize your activities in these areas and provide any written comments on these topics that you receive from the resource agencies or other entities.

As you will note, our February 3, 2005 letter requested that you file a streamflow gaging plan with us by April 15, 2005, for Commission approval. In light of recent events and your current efforts, we wish to revise this filing deadline. Please file the streamflow gaging plan for Commission approval, by May 30, 2005. Please review our

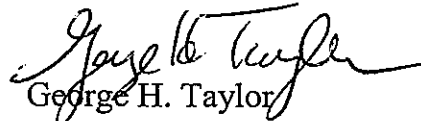
² As a reminder, please inform the Commission within 30 days of any transfer of property interests regarding the Ravenscroft Ranch exemption.

February 3, 2005 letter to ensure that the plan contains the needed information. Contact us with any questions you may have regarding the plan.

Finally, please note that, regardless of your current efforts to ensure flow monitoring accuracy, you need to ensure that the required minimum flows are passed and flows are recorded at all times during generation. You also need to continue to report any minimum flow deficiencies to the Commission and resource agencies as soon after they occur as possible, and file annual minimum flow monitoring reports with the Commission, as originally indicated in our September 12, 2000 letter to you.

We appreciate your work to resolve these issues. If you have any questions, please contact Pete Yarrington at (202) 502-6129.

Sincerely,



George H. Taylor
Chief, Biological Resources Branch
Division of Hydropower Administration
and Compliance

cc: David Parrish
Idaho Department of Fish and Game
868 East Main Street
P.O. Box 428
Jerome, ID 83338-0428

Gary Wright
Bureau of Land Management
Shoshone Field Office
P.O. Box 2-B
Shoshone, ID 83352-152

Watermaster
Idaho Department of Water Resources
P.O. Box T
Shoshone, ID 83352

Jeffrey Foss, Supervisor
U.S. Fish and Wildlife Service
1387 South Vinnell, Suite 368
Boise, ID 83709

May 26, 2005

Project # 4055-036-Idaho
Ravenscroft Ranch Project

The Secretary
FERC
Mail Code PJ-12.3
888 First St., NE
Washington, D.C. 20426

Dear Mr. Yarrington:

I have enclosed a new flow chart for the river flow at our gage on the Malad River. The measurements and chart were taken and prepared by Kevin Lakey, the water master for districts 37 and 37M. I have enclosed his supporting documents. The following points need to be taken into consideration.

1. With the drought in Idaho these last 5-6 years we have had no large fleshing flows through the river. As a result, mainly this last year behind the beaver dam at the gage new sediment and new vegetation growth had narrowed the river at the gage.

2. Kevin Lakey and I started taking new water measurements in early March, through April and May. From a rain storm on May 16 the river came up over night from approximately 100 cfs to over 700 cfs. This cleaned out approximately half of the new growth and widened back out the river at the gage.

3. The result being our low readings in the 5 cfs range were taken based on the narrower river. Two of our higher readings were taken before the large flow as well. These we were able to throw out and start over. The low 5 cfs range we will not be able to see how much they have changed until after July 1, 2005 when we drop back to the 5 cfs flow requirement.

My recommendation would be to use this new table, (I am already using the .77 at 5.83 cfs and 1.35 at 80.14 cfs as the levels to maintain.) as a start and continue to take more river measurements in June and new readings at the low flow end in July and August. I would then supply a revised more accurate table due by the end of August. This table is currently more accurate than the old table (based on current river conditions) and the error at this time is in favor of more water in the river than the table shows, at least in the 80 to 100 cfs range. (Reference Kevin Lakeys May 23, 2005 letter)

I want to take this time to express how much I appreciate the the support and flexibility of Kevin Lakey in putting this together. He added a flexibility we did not have in the past. Once the river stabilized at a desired level I need to measure, I could make a phone call and in some cases have it measured two hours later. This greatly help lighten the load in getting this updated to meet the requirement and learning as I go working through my dad's estate.

I am continuing to make all efforts to control the beaver problem. I am still trying to see when the live trappers can come in, but have not been able to get a firm date at this time. I will continue to utilize the kill permit and patrol the river looking for signs of new activity.

Please let me know if this is an acceptable course of action or if there is anything else I need to do at this time.

Sincerely,

Allan Ravenscroft

cc. David Parrish
Idaho Dept of Fish and Game
868 East Main Street
P.O. Box 428
Jerome, ID 83338-0428

Watermaster
Idaho Dept of Water Resources
P.O. Box T
Shoshone, ID 83352

Gary Wright
Bureau of Land Management
P.O. Box 2-B
Shoshone, ID 83352

Jeffrey Foss
Snake River Field Office
U.S. Fish and Wildlife Service
1387 South Vinnell, Suite 368
Boise, ID 83709

STATE OF IDAHO
DEPARTMENT OF WATER RESOURCES

WATER DISTRICT NO. 37 & 37 M

P.O. Box T
Shoshone, Idaho 83352
(208) 886-2451



Watermaster

Ravenscroft Hydro
Attn.: Allen Ravenscroft
1331 Shoestring Road East
Bliss, Idaho 83314

May 23, 2005

Mr. Ravenscroft:

Please find enclosed the rating table that identifies the amounts of water you would be bypassing at corresponding gage heights at your gage station on the Malad River.

Measurements have been taken throughout the spring, but with vast changes in the river channel due to excessive flooding, some measurements have been disregarded. This rating table was developed using both low and high flows in both a narrower and wider channel, so I feel we have a good cross section of flows. On the other hand, the formula within the spreadsheet of this data table is not entering exact measurements. For example, I measured and entered 91.47 c.f.s. at a gage height of 1.4 feet. As you'll notice, the table is reading 88.49 c.f.s. at 1.4 feet. I believe this table is a good starting point, but I suggest we keep measuring flows and entering data through the upcoming summer to confirm its accuracy.

Stay in touch and we will work on this as the summer progresses.

Respectfully:

A handwritten signature in dark ink, appearing to read "Kevin Lakey", is written over a light blue horizontal line.

Kevin Lakey
Watermaster, Districts 37 and 37M

STATE OF IDAHO
DEPARTMENT OF WATER RESOURCES



WATER DISTRICT NO. 37 & 37 M

P.O. Box T
Shoshone, Idaho 83352
(208) 886-2451

Watermaster

Allen Ravenscroft
1331 Shoestring Road East
Bliss Idaho 83314

Mr. Ravenscroft:

I am writing to verify the measurements I conducted at your river stage recorder on the Malad River. I have included my measurements below.

Gage Height

Flow(cfs)

.70	2.5
.74	3.7
.77	4.6
.78	5.2

I hope this information will help. If you have any more questions, feel free to call me anytime.

A handwritten signature in black ink, appearing to read "Kevin Lakey", is written over the printed name.

Kevin Lakey
Watermaster, Districts 37 and 37M

STATION RAVEN

STAGE-DISCHARGE TABLE
LOCATION ON RAVENSCROFT HYDRO

05/18/05

DATE	GAGE HT	Q	CORR.	DATE	GAGE HT	Q	CORR.

G.H. FT	DISCHARGE CFS						STATION #51			
	0	0.01	0.02	0.03	0.04	0.05	0.06	0.07	0.08	0.09
0.7	(0.18)	0.64	1.47	2.32	3.17	4.05	4.93	5.83	6.74	7.66
0.8	8.60	9.55	10.51	11.49	12.47	13.48	14.49	15.52	16.56	17.61
0.9	18.68	19.76	20.85	21.96	23.07	24.21	25.35	26.51	27.68	28.86
1	30.06	31.27	32.49	33.73	34.98	36.24	37.51	38.80	40.10	41.41
1.1	42.74	44.08	45.43	46.80	48.18	49.57	50.97	52.39	53.82	55.27
1.2	56.72	58.19	59.68	61.17	62.68	64.20	65.74	67.29	68.85	70.42
1.3	72.01	73.61	75.22	76.85	78.49	80.14	81.80	83.48	85.17	86.88
1.4	88.59	90.32	92.07	93.82	95.59	97.37	99.17	100.98	102.80	104.63
1.5	106.48	108.34	110.21	112.10	114.00	115.91	117.83	119.77	121.72	123.69
1.6	125.66	127.65	129.66	131.67	133.70	135.75	137.80	139.87	141.95	144.04
1.7	146.15	148.27	150.41	152.55	154.71	156.88	159.07	161.27	163.48	165.70
1.8	167.94	170.19	172.45	174.73	177.02	179.32	181.64	183.97	186.31	188.66
1.9	191.03	193.41	195.80	198.21	200.63	203.06	205.51	207.97	210.44	212.92
2	215.42	217.93	220.45	222.99	225.54	228.10	230.68	233.27	235.87	238.48
2.1	241.11	243.75	246.41	249.07	251.75	254.45	257.15	259.87	262.60	265.35
2.2	268.10	270.88	273.66	276.46	279.27	282.09	284.92	287.77	290.64	293.51
2.3	296.40	299.30	302.21	305.14	308.08	311.03	314.00	316.98	319.97	322.97
2.4	325.99	329.02	332.07	335.12	338.19	341.28	344.37	347.48	350.60	353.74
2.5	356.89	360.05	363.22	366.41	369.61	372.82	376.05	379.29	382.54	385.81
2.6	389.08	392.37	395.68	399.00	402.33	405.67	409.03	412.40	415.78	419.17

FEDERAL ENERGY REGULATORY COMMISSION
Washington, D.C. 20426

OFFICE OF ENERGY PROJECTS

Project No. 4055-036 & -037 -- Idaho
Ravenscroft Ranch Project
Vernon F. Ravenscroft

Mr. Allan Ravenscroft
1331 Shoestring Road
Bliss, ID 83314

July 14, 2005

Subject: Streamflow gaging

Dear Mr. Ravenscroft:

We received your May 17 and May 26, 2005 reports pertaining to streamflow gaging at the Ravenscroft Ranch Project. You filed the reports in response to our March 21, 2005 letter to you.

Exemption Requirements and Background

The project's minimum flow requirements, stipulated in the Commission's July 23, 1996 Order Amending Exemption Article 2 Terms and Conditions, are 5 cubic feet per second (cfs) July 1 through April 15, and 80 cfs April 16 through June 30.¹ The flows are monitored using a river stage recorder and stage/discharge table.

In correspondence beginning in 2002, we requested verification of the accuracy of the project's minimum flow stage/discharge table to ensure that the required minimum flows are being released. The table in use was over 10 years old. When several attempts to obtain measurements on which to base a new table failed, we requested, in an August 13, 2004 letter, a new plan for correcting the problem.

In an October 20, 2004 response, you indicated that you planned to install a new fixed weir to monitor minimum flows, because beaver activity affected the accuracy of the existing gaging station in the project bypass. However, the Idaho Department of Fish and Game (IDFG) and the Bureau of Land Management (BLM) both supported retention of the current gaging location, and the removal and control of the beaver and their dams.

In a February 28, 2005 report, you indicated that you would begin taking a new set of flow measurements with the assistance of the local Water Master, in order to

¹ 76 FERC ¶ 62,052 (1996).

recalibrate the existing minimum streamflow gage. You noted that you removed two beaver dams downstream of the existing streamflow gage, and parts of four dams upstream. You wrote that the beaver trapping would begin in April, and that you would ensure that the gage area remained open.

In our March 21, 2005 response to your report, we requested an update on your progress in the production of a new stage/discharge table. We also requested an update and schedule for your work in controlling beaver.

May 17, 2005 Progress Report

Your May 17 report informed us of your continued progress in removing beaver and beaver dams from the gaging area, and your work to enlist the help of local trappers. You indicated that the local Water Master² was assisting you in taking flow measurements over the necessary range of flows to produce a new stage/discharge table.

May 26, 2005 Report

In your May 26 report, you enclosed a new stage/discharge table, and a May 23, 2005 letter from the local Water Master indicating that the new table correctly correlates the water passing your gaging station with corresponding gage heights. However, the Water Master recommends that more data be gathered through the upcoming summer to confirm the accuracy of the table. In a July 5, 2005 telephone conversation with Commission staff, you indicated that you were working with the Water Master to collect additional data points to confirm the stage/discharge table.³

You wrote that you plan to use the new table to monitor flows immediately. In the new table, 0.77 feet gage height equals 5.83 cfs, and 1.35 feet equals 80.14 cfs. You copied your report to the IDFG, Idaho Department of Water Resources (IDWR), Bureau of Land Management (BLM), and U.S. Fish and Wildlife Service (FWS).

During the July 5 telephone conversation, we inquired about the frequency at which you check the streamflow gage, and whether the project automatically shuts off at

² Water District No. 27 and 37M, State of Idaho, Department of Water Resources.

³ Telephone conversation between Allan Ravenscroft, project representative, and B. Peter Yarrington, Commission staff, July 5, 2005.

low flows to protect the minimum flow in the bypass reach. You indicated that you check the gage and the project gates two times a day, and that, during periods when low flows are possible, the project can be set to automatically shut down at certain levels. You noted in your May 26 report and during the July 6 telephone call that you are continuing to work to control the beaver problem. You said that it was not really practical to set a schedule for beaver control work, because you judged the need for such work each day when you checked the streamflow gage and gates.

Conclusions and Requested Actions

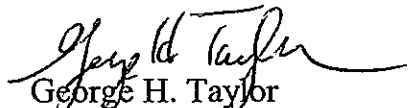
We appreciate your efforts in working with the Water Master to create a new stage/discharge table for the minimum flow gage at the Ravenscroft Ranch Project. The table included in your May 26, 2005 report should now be used to monitor minimum flows in the project bypass reach.

If continued work produces changes to the table that affect the stage/discharge relationship in the range of flows required by the project's article 2 requirements, please file copies of the revised table with the Commission in Washington, D.C, and with the Portland Regional Office, as well as with the IDFG, IDWR, BLM, and FWS.

As noted in our earlier letters, please report any minimum flow deficiencies to the Commission and resource agencies as soon after they occur as possible. Please also recall that you need to file annual minimum flow monitoring reports with the Commission, as originally indicated in our September 12, 2000 letter to you.

We appreciate your work to maintain accurate flow monitoring, and to pass the required minimum flows, at the Ravenscroft Ranch Project. If you have any questions, please contact Pete Yarrington at (202) 502-6129.

Sincerely,



George H. Taylor
Chief, Biological Resources Branch
Division of Hydropower Administration
and Compliance

cc: David Parrish
Idaho Department of Fish and Game
868 East Main Street
P.O. Box 428
Jerome, ID 83338

Gary Wright
Bureau of Land Management
Shoshone Field Office
P.O. Box 2-B
Shoshone, ID 83352

Water Master
Idaho Department of Water Resources
P.O. Box T
Shoshone, ID 83352

Jeffrey Foss
U.S. Fish and Wildlife Service
1387 South Vinnell, Suite 368
Boise, ID 83709

September 29, 2005

Project # 4055-036-Idaho
Ravenscroft Ranch Project
2004 River Flow Report

The Secretary
FERC
Mail Code PJ-12.3
888 First St., NE
Washington, D.C. 20426

Dear Mr. Yarrington:

As per our emails of 8/29/2005, I determined that the 2004 flow chart report did not get filed. This was a direct result, of the death of my father on October 29, 2004. I had talked to him on items concerning this report in early October, so I was under the impression the report was due in that time frame. I had assumed my dad had filed it before his death. Our emails clarified this point, so have enclosed the graphs. I have not been able to find the daily log pages for the first nine months of 2004. My father had prepared eight months out of the nine for the report. So I submit the following report based on what my dad had prepared, what I know personally, but with some gaps in not being able to find the daily records.

In reviewing the data the following points need to be made:

1. The January graph lists problems with both ice and snow in providing reliable data. In 2004 I did the majority of the daily checks on river flow and plant operation. During the year I personally know of no time that we were out of compliance and operating. My father listed the days where there might be a question as only operating part time. But with out the daily logs at this time I can not supply the actual hrs we were off. His notes do list us as either off full time or part time any time the flow dropped under the compliance line.
2. I see no concerns in February, March and April. The graphs and my father's notes are clear.
3. May looks fine other than one little dip on May 23. With out the logs I can not tell (based on notes and production) if the plant shut off for the very short period when the river dropped and then right back on, or not. With out the daily logs a few hours could be in question.

4. June looks fine.
5. In July, August and September my father had the compliance line drawn on the graphs off by two squares on the graph paper. I have drawn in the correct lines. The changes do not effect compliance. In August it is noted where the first problem with the beaver dams below the gage takes place. You can also see where on August 16, the dam was removed and then promptly rebuilt. The key to me is how high the water is above the compliance line, with the dam removed.
6. There was beaver dam interference from August through the end of the year. Based on a complaint from the irrigators in the fluctuations of the water flows in 2003, I set the valves and pipes for the by pass flows starting July 1 to let between 10 and 15 cfs go at all times. I never changed these stettings for the balance of 2004. The irrigators below us have a water right of 18-20 cfs. By keeping 10-15 in the river at all times if I have to shut down a turbine when flows drop off, I can open one 6 inch valve at the hydro plant and give then another 8-10cfs. That way with out question they have their flow no matter what. The removal of the beaver dam on the 16 of August still shows this higher level is maintained.
7. There is still beaver damn interference in October and November but as you can see very little operation of the plant. I had still not changed the valve and pipe setting for the by pass flow but it was cut down some by beaver action in the storage ponds.
8. In December there is an ice problem with the gage from the 1st through the 13 th. It is actually recording no water in the river which can not happen. Then on the 14 it melted or cleaned it`s self out and started recording correctly. Again still with a beaver damn below the gage and very little production.

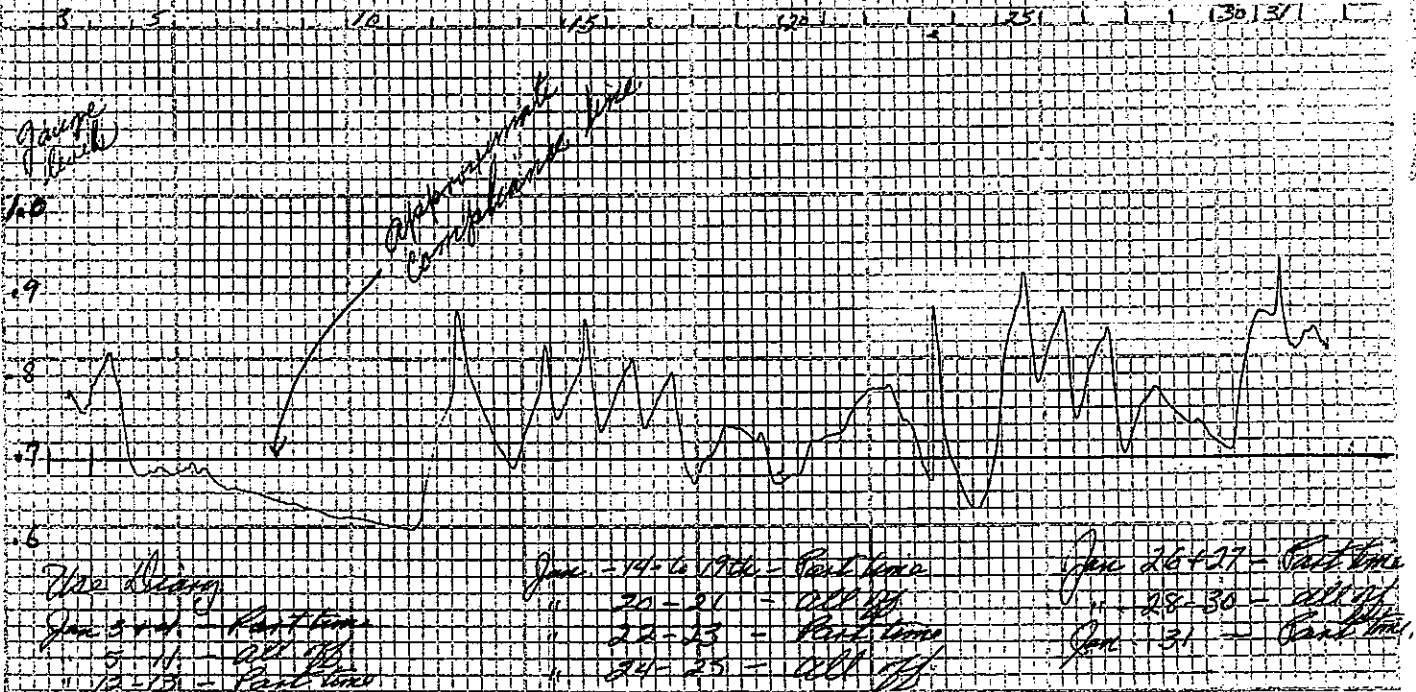
With the data I have, I believe this to be as accurate account of the flows in 2004 that I can provide. I greatly appreciate your help and patience in working through all of this with me, with my father's death.

Sincerely,

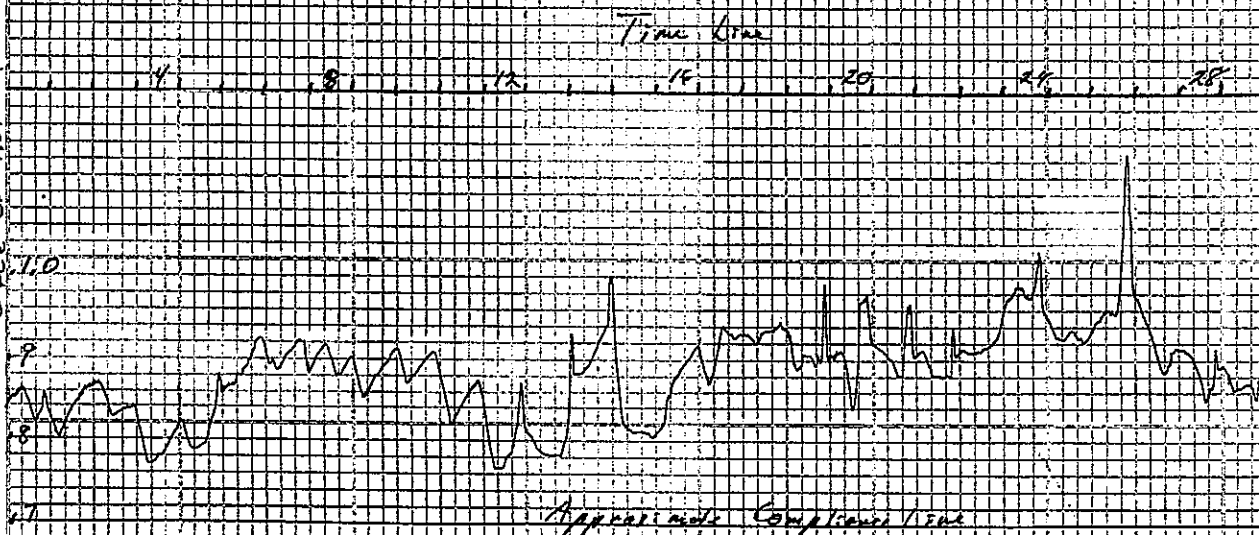
Allan Ravenscroft

January 2004 Gunnawalt Hydr. Project 4055 flow data

Note: Because of winter conditions these records are not reliable! Ice and snow over a shallow rock gauge section disturbs all readings 6-46 + 4 =. Plant operation - generation was only part time. Total 19,304 KWH net or approximately 3.8 % of potential. There was times when drifting snow made it impossible to service the generator equipment.



Ravencrest Hydro - Feb 04
Project # 4055



Bevenscroft Hydro - March - 04.
Project # 4055 Idaho.

Date lines.

1.1 1.2 1.5 1.10 1.15 1.20 1.25 1.30 1.31

Group height

1.1

1.0

.9

.8

.7

.6

Approximate Compliance View

Spike 3/31/04 - partial removal
of lower dam.

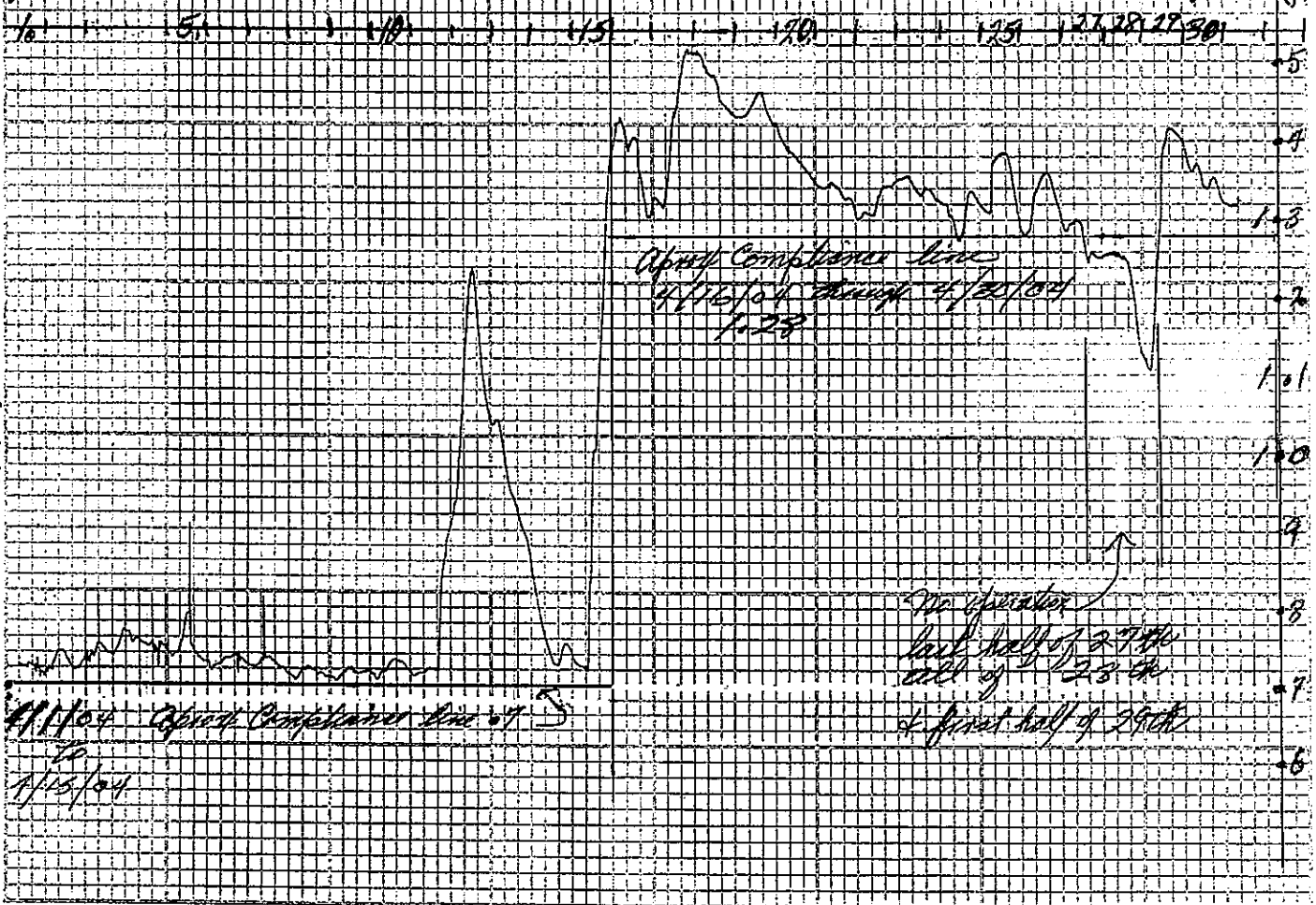
27428 point
Two Computer control
29430 All off
29430 operation
3/31/04 Small
Working only.

11:30 AM 4-1-04
72 Case

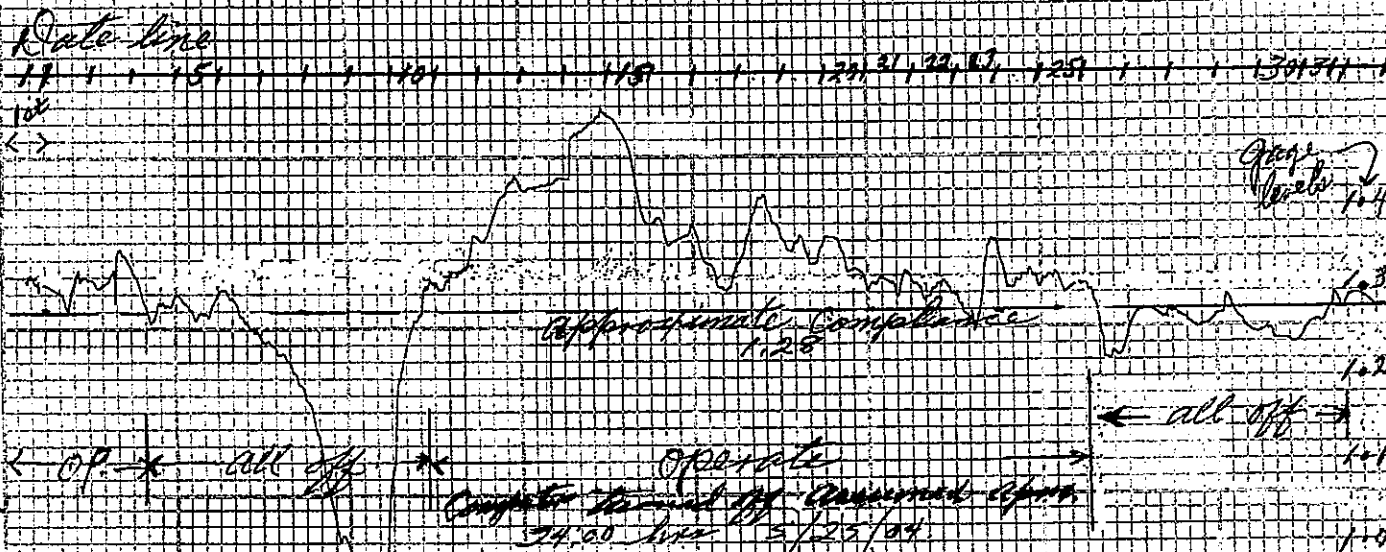
Reverend Hydro April 04

Date line

flow gauge



Ravencrest Hydro FERC 4055



June - 04

Revised after April - June 04.
Proc. #4055.

Date line

15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30

gap levels

Applied Compliance level

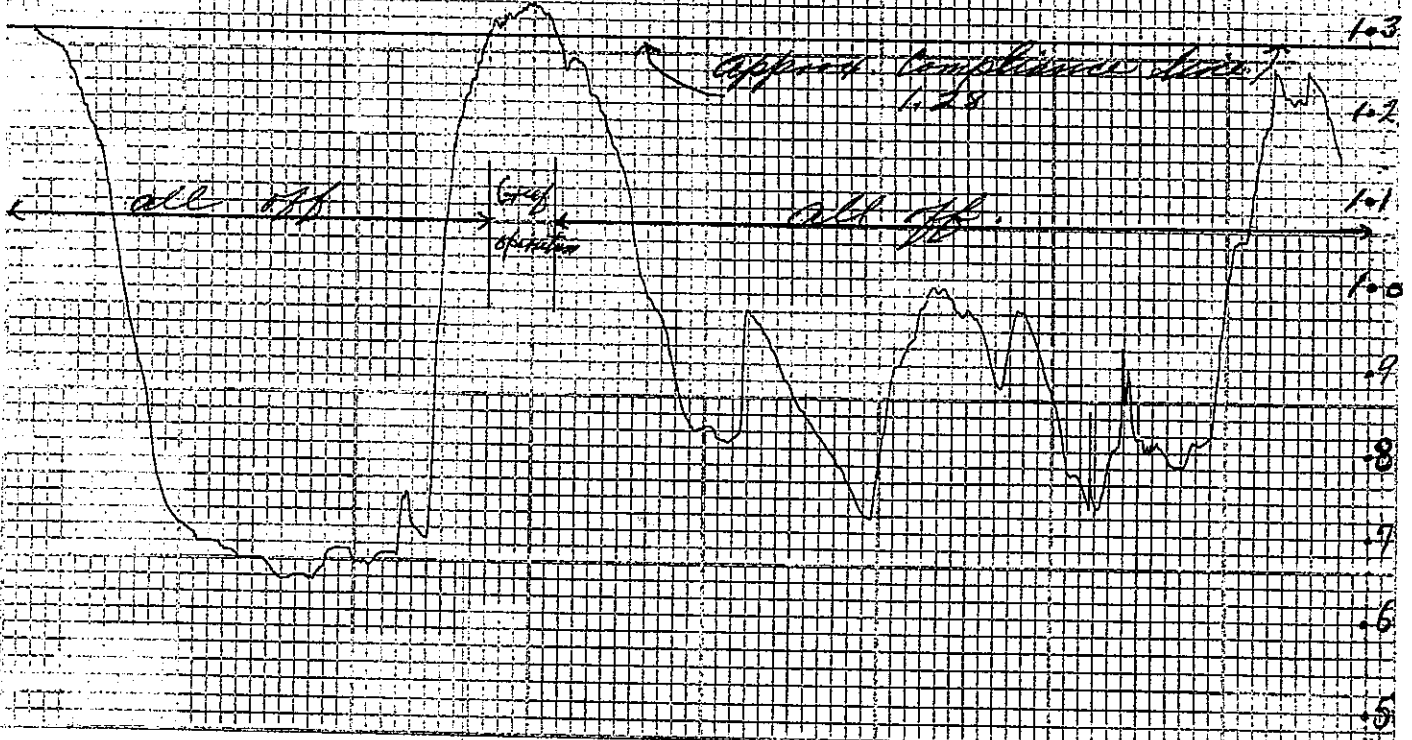
all off

Grid operation

all off

11:20 AM June 04 178 6038

Transducer 2 Channel 2000 Hz. 2000 Hz. 2000 Hz.



Grange

1 5 10 15 20 25 30

Correct Compliance Line - Added By Allan

Approximate Compliance Line

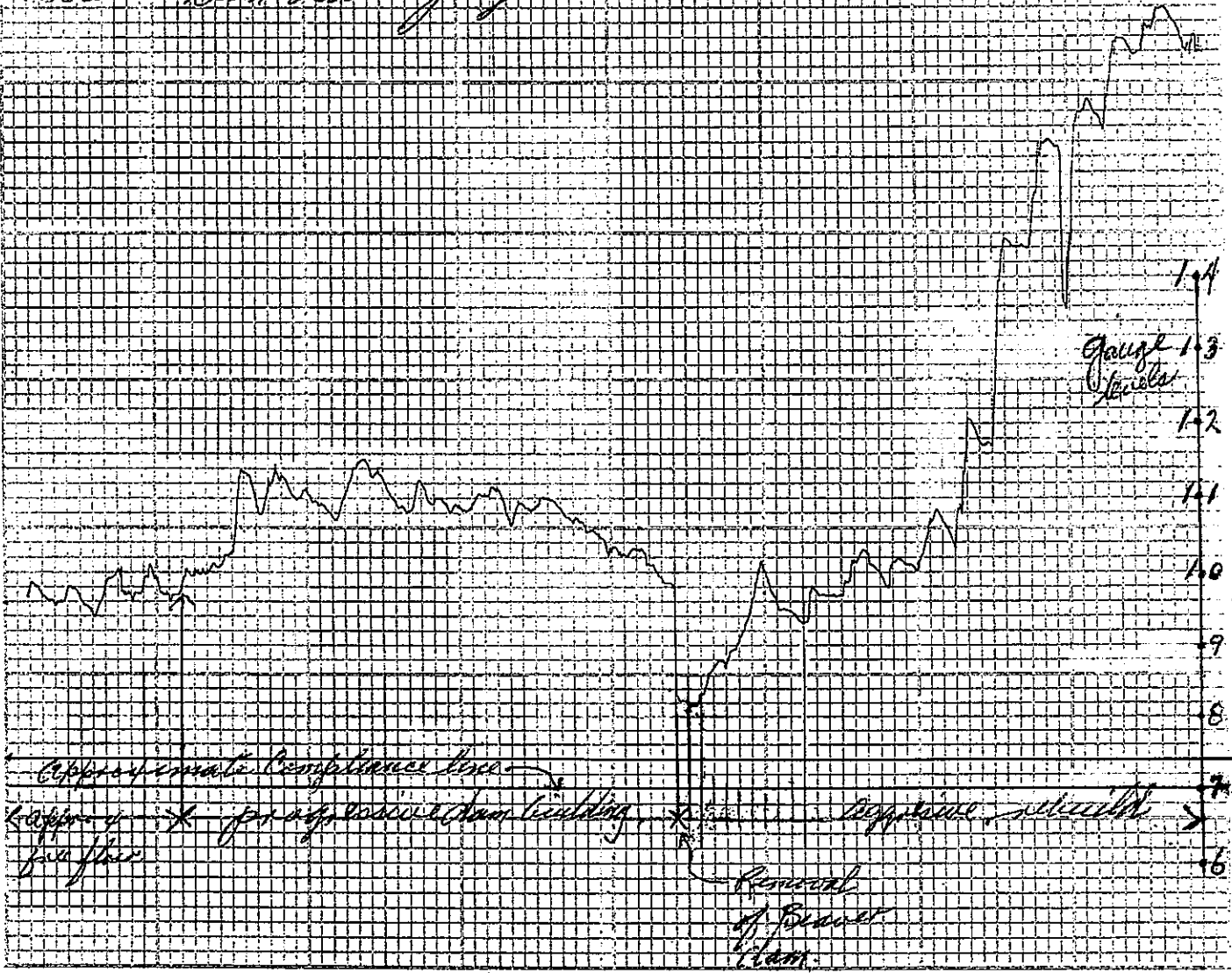
Aug 2004

Ravencrest Hydro H 4035

Date Line

115 110 105 100 95 90 85 80 75 70 65 60 55 50 45 40 35 30 25 20 15 10 5 0

Beaver Dam below gauge



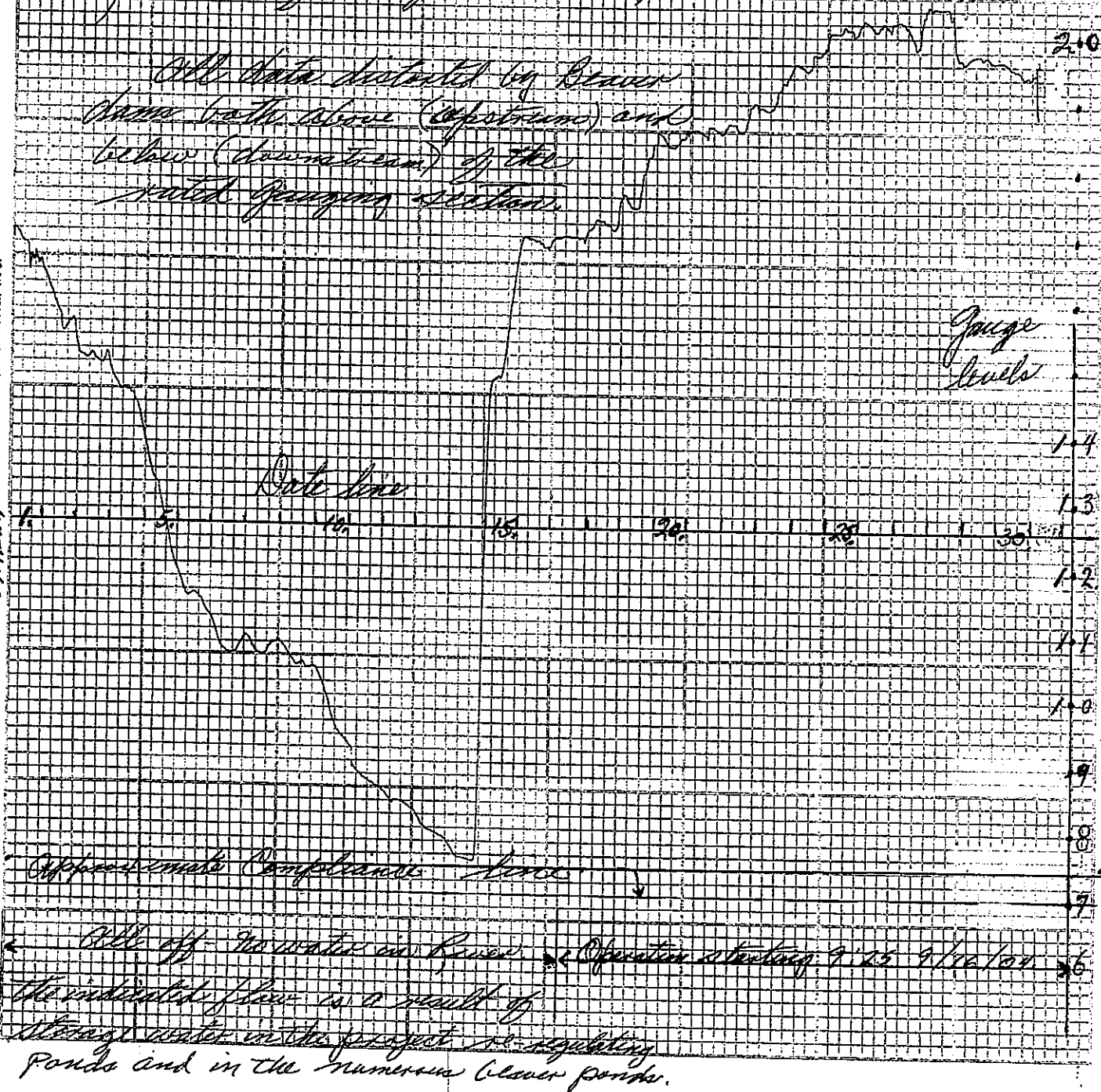
Corr. Lin

Sept 2004

Remuscraft Hydros - # 4035

All data distorted by Beaver
dam both above (upstream) and
below (downstream) of the
rated gauging station.

Geo. Aschold & Stevens, Inc., Beaver Dam, Wis.



Beaver Water Level Recorder - Type B

7 Corr
Line

Time

28

24

20

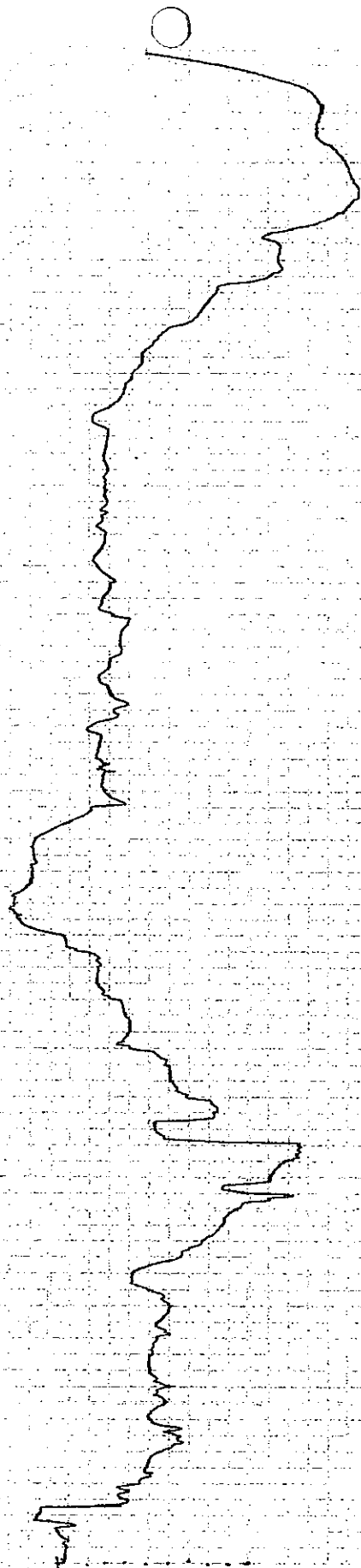
16

12

8

4

11:25 - 10-1-04 1.20 on edge
Beaver Dam backing water up in Gorge



Approximate Company Line

Plant Operation

Oct 2004

Oct 6 - 7:00 AM off

Beaver Dam Backing Water

10/16/04 11:00 AM

Back up on Gorge

11-1-04 16:36 time Beaver Dam facility water up on logs Level 1.28



Approximate Completion Line

Plant Operation

8 hr Nov 10
10 hr Nov 11
9 hr Nov 12
All off rest of Month

Nov 2004

Beaver Dam
Backlog water
up on logs

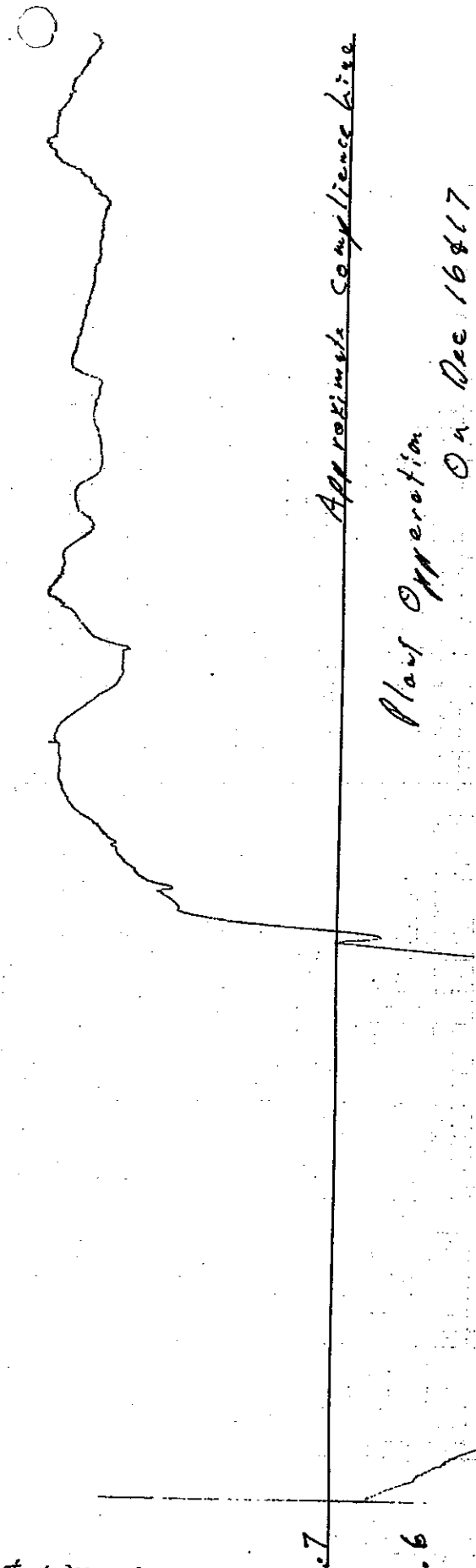
Dec 2004

Ice & Beaver Dam. The readings from the 1st through the 12 are not accurate. I pulled the float out of Ice to

Change the gage paper & it must have been upon floating Ice when put Back In. Readings in this direction are recording a dry river, which can not happen.

1.1, 2.3, 4.5, 6.7, 8.9, 10.11, 12.13, 16.1, 18.1, 20.1, 25.1, 30.1

12-1-04- 16:30 1.66
Beaver Dam & Ice



FEDERAL ENERGY REGULATORY COMMISSION
Washington, D.C. 20426

OFFICE OF ENERGY PROJECTS

Project No. 4055-038 -- Idaho
Ravenscroft Ranch Project
Vernon F. Ravenscroft

Mr. Allan Ravenscroft
1331 Shoestring Road
Bliss, ID 83314

December 16, 2005

Subject: 2004 bypass minimum flow report

Dear Mr. Ravenscroft:

We received your bypass minimum flow report for 2004, dated September 29, 2005. You filed the report in response to our September 12, 2000 letter, in which we requested annual flow reports. In our letter, we requested that the reports be filed by January 31 following the year covered in each report, and that each report include a copy of the current stage/discharge table for the recording streamflow gage at the project.

The project's minimum flow requirements, stipulated in the Commission's July 23, 1996 Order Amending Exemption Article 2 Terms and Conditions, are 5 cubic feet per second (cfs) July 1 through April 15, and 80 cfs April 16 through June 30.¹ The flows are monitored using a river stage recorder and stage/discharge table.

You indicated in the September 29, 2005 report that the 2004 data were being filed late because you believed your father had filed the information prior to his death in late 2004. When you determined that the 2004 report had not been filed, you contacted us via email and, per our direction, filed the information that was available, with your comments, for 2004.² We already have a copy of the stage/discharge table created for the project this year, which you filed in a report dated May 26, 2005.

Your report included copies of continuous bypass flow records for the months of January through December, 2004, annotated to show the required minimum flow in relation to the releases that were made, and the days on which the project was operated.

¹ 76 FERC ¶ 62,052 (1996).

² August 29, 2005 email exchanges between Allan Ravenscroft, project representative, and B. Peter Yarrington, Commission staff.

You note that you are unable to locate your father's daily operation records. However, you provided comments based on your personal operation of the project during the year. You stated that you know of no time during 2004 when the project was operated without passing the required minimum flows.

The continuous flow record for January had a note indicating that the records were unreliable at times due to ice and snow, and that drifting snow made it impossible to service the generation equipment at times. However, comparing notations of generation periods with the flow records as presented indicates that the project was operated only in periods when sufficient flows were believed to be present. The continuous records for February, March, and April indicate that minimum flows were passed during all periods. Records for May also indicate that the required flows were passed, with the possible exception of one period on May 23. However, as you note, the records you were able to supply do not clearly indicate whether operation occurred during that short period.

The records for July, August, and September indicate that required flows were passed during all operating periods. You noted that recording accuracy was affected, starting in August, by beaver dams below the gaging location. Therefore, you adjusted the bypass valves and pipes to release between 10 and 15 cfs to ensure release requirements were met through the end of the year. According to notations on the monthly reports, the project only generated a few days during October, November and December. Sufficient flow releases were ensured by the release adjustments you made.

Thank you for your efforts in filing your 2004 bypass minimum flow report. Please note that your next annual bypass minimum flow report, to cover the year 2005, will be due January 31, 2006, and needs to include a copy of the current stage/discharge table for the streamflow gage at the project.

If you have any questions, please contact me at (202) 502-6129.

Sincerely,



B. Peter Yarrington
Fisheries Biologist
Division of Hydropower Administration
and Compliance

January 24, 2006

Project # 4055-036-Idaho
Ravenscroft Ranch Project

The Secretary
FERC
Mail Code PJ-12.3
888 First St., NE
Washington, D.C. 20426

Dear Mr. Yarrington:

This report is in follow up to my email of January 2 and your email response of January 3, 2006. On New Years Eve the Malad River hit flood stage. The water was over the top of the protective box the recording gage sits in (reference pictures 1 and 2) I pulled out the gage and was able to clean it up, replace the batteries , order new ink cartridge and get it back in operation. It was back recording river flows on the morning of January 19, 2006.

The following are in relation to the points you raised in your email response.

1. Enclosed is a table of the river levels I recorded while the recorder was out. Also enclosed is the current river flow chart, as reference.
2. The protective box the recording gage sits in and the staff gage are solid and did not move, even with all the water. The box is built into the bank and did not wash out. The staff gage is set in cement and it stayed put as well. (reference pictures 3&4,taken Jan.3rd) Their levels did not change.
3. With all the flood water what did change is the river flow chart that was just submitted to you with new levels in 2005. (copy enclosed) In looking at the river after the flood, the channel is wider and cleaned out. But with the recorder gage and staff gage being at fixed points, there would now be more water in the river, for any given reading. Any error at this time is in favor of more water in the river than the flow chart indicates.
4. I will again work with the water master this year taking new water measurements and provide an updated river flow chart before the year is over.
5. The ice in December crushed our sensors at the power plant that record the water levels and let us turn the plant on and off at preset water levels and to keep us in compliance. While the gage was out I also replaced the sensors with newer

technology ultra sonic sensors that work like radar and bounce a single off the surface of the water to get a reading. These sensors not being in the water get us away from problems with ice and lighting, both problems which we had this last year. With the week they have been in, they have been much more accurate than the old sensors and have lets us fine tune the system to make it that much easier to keep the water levels where they need to be to stay in compliance.

Beavers:

I'll take this chance to report on where we are at on beaver control. I had reported last year that I had killed six. In November I paid trappers to come in and they took four more out of the area we had been having trouble. At this time partly being winter I see no signs of any beaver activity, but will continue to monitor and report.

I will have the 2005 river flow report done and out to you yet this week as well. If you have any questions on the actions I have taken please let me know. Your help is appreciated.

Sincerely,



Allan Ravenscroft

cc: Dave Parish
Idaho Dept of Fish and Game
868 East Main Street
P.O. Box 428
Jerome, ID 83338-0428

Watermaster
Idaho Dept of Water Resources
P.O. Box T
Shoshone, ID 83352

Gary Wright
Bureau of Land Management
P.O. Box 2-B
Shoshone, ID 833352

Jeffrey Foss
Snake River Field Office
U.S. Fish and Wildlife Service
1387 South Vinnell, Suite 368
Boise, ID 83709

January 24, 2006

January 1 through 19 River Flow Report

Jan.1 to 3 rd.....	river too high to read (picture # 4)
Jan 4.....12:36.....	1.66
18:50.....	1.54
Jan 5..... 12:45.....	1.08
18:49.....	1.06
Jan.6.....11:30.....	.98
20:01.....	.90
Jan.7 08:51.....	.90
21:15.....	.84
Jan.8.....12:07.....	.80
21:54.....	.82
Jan.9... 08:31.....	.84
17:52.....	.82
Jan 10..... 13:71.....	.86
23:23.....	.82
Jan.11..... 10:56.....	.82
23:18.....	.80
Jan.12.....12:47.....	.82
23:37.....	.84
Jan.13.....13:59.....	.88
23:54.....	.84
Jan.14.....10:18.....	.86
17:55.....	.82
Jan.15.....12:54.....	.82
19:53.....	.82
Jan.16.....09:38.....	.80
14:34.....	.82
Jan.17.... 08:32.....	.84
15:50.....	.84
Jan.18.....12:07.....	.78
.....20:14.....	.80

Put Gage back in to record water levels at 10:40 Jan.19,2006

STATION RAVEN

STAGE-DISCHARGE TABLE
LOCATION ON RAVENSCROFT HYDRO

05/18/05

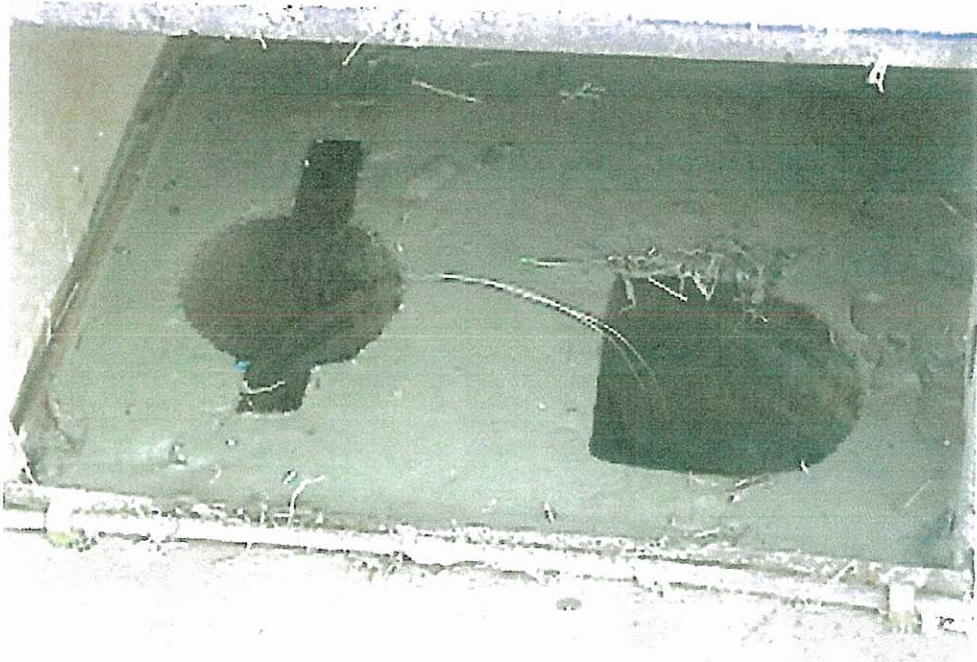
G.H. FT	DATE	GAGE HT	Q	CORR.	DISCHARGE CFS					STATION #51				
					0	0.01	0.02	0.03	0.04	0.05	0.06	0.07	0.08	0.09
0.7					(0.18)	0.64	1.47	2.32	3.17	4.05	4.93	5.83	6.74	7.66
0.8					8.60	9.55	10.51	11.49	12.47	13.48	14.49	15.52	16.56	17.61
0.9					18.68	19.76	20.85	21.96	23.07	24.21	25.35	26.51	27.68	28.86
1					30.06	31.27	32.49	33.73	34.98	36.24	37.51	38.80	40.10	41.41
1.1					42.74	44.08	45.43	46.80	48.18	49.57	50.97	52.39	53.82	55.27
1.2					58.72	58.19	59.68	61.17	62.68	64.20	65.74	67.29	68.85	70.42
1.3					72.01	73.61	75.22	76.85	78.49	80.14	81.80	83.48	85.17	86.88
1.4					88.59	90.32	92.07	93.82	95.69	97.37	99.17	100.98	102.80	104.63
1.5					108.48	108.34	110.21	112.10	114.00	115.91	117.83	119.77	121.72	123.69
1.6					125.66	127.85	129.66	131.67	133.70	135.75	137.80	139.87	141.95	144.04
1.7					146.15	148.27	150.41	152.55	154.71	156.88	159.07	161.27	163.48	165.70
1.8					167.94	170.19	172.45	174.73	177.02	179.32	181.64	183.97	186.31	188.66
1.9					191.03	193.41	195.80	198.21	200.63	203.06	205.51	207.97	210.44	212.92
2					215.42	217.93	220.45	222.99	225.54	228.10	230.68	233.27	235.87	238.48
2.1					241.11	243.75	246.41	249.07	251.75	254.45	257.15	259.87	262.60	265.35
2.2					268.10	270.88	273.66	276.46	279.27	282.09	284.92	287.77	290.64	293.51
2.3					298.40	299.30	302.21	305.14	308.08	311.03	314.00	316.98	319.97	322.97
2.4					325.99	329.02	332.07	335.12	338.19	341.28	344.37	347.48	350.60	353.74
2.5					356.89	360.05	363.22	366.41	369.61	372.82	376.05	379.29	382.54	385.81
2.6					389.08	392.37	395.68	399.00	402.33	405.67	409.03	412.40	415.78	419.17

DATE	GAGE HT	Q	CORR.	DATE	GAGE HT	Q	CORR.

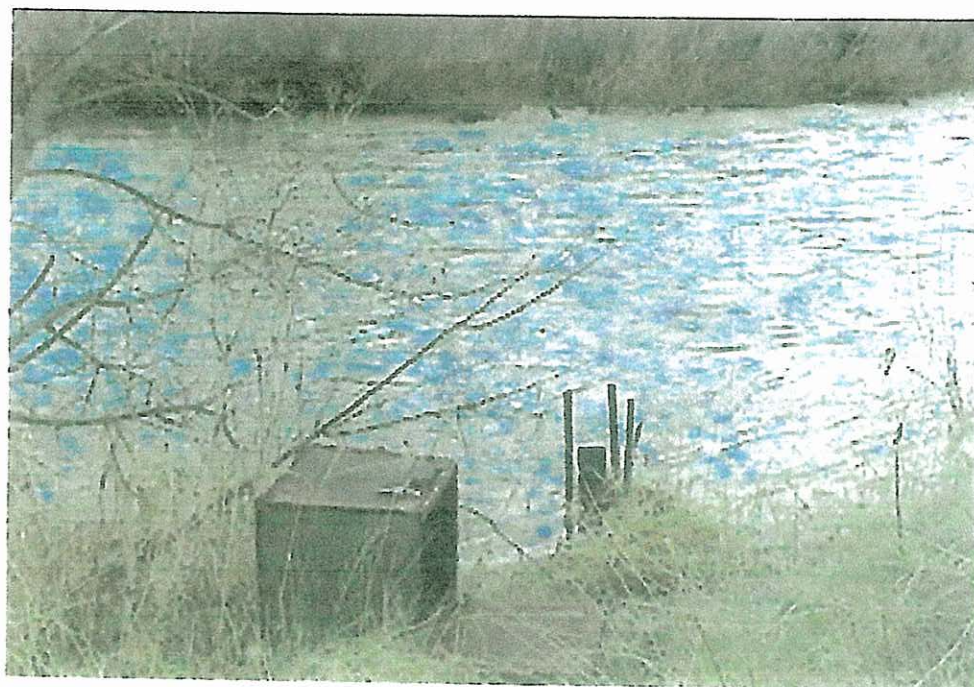
1.



2.



3.



4.



January 26, 2006

Project # 4055-036-Idaho
Ravenscroft Ranch Project
2005 River Flow Report

The Secretary
FERC
Mail Code PJ-12.3
888 First St., NE
Washington, D.C. 20426

Dear Mr. Yarrington:

Enclosed are the 2005 river flow charts. As you know in 2005 I submitted a new flow chart for the river. I have applied that charts requirements from May 26, 2005 when I sent in the new table through the balance of the year. The old river chart would still apply before May 26. I have enclosed copies of both charts.

In reviewing the data I make the following points:

1. In January we were still dealing with the beaver problems with the beaver dam backing water up on the gage. Other wise I see no problems.
2. In February in taking over the project and from the correspondence with your office, we removed the beaver damns. What I did not know until the end of the month (when I went to replace the graph paper) was that the removal of the beaver dam made such a sudden change in water levels that when the drum turned; the ink pen caught on the edge of the graph paper and knocked it off its tracks. The gage did not then record any levels from the 21st on. I have enclosed the staff gage readings that I took daily to back up the water levels at that time.
3. March is closer to the line than I try to run but in reviewing the data the plant was off every time the water dropped below the compliance line.
4. I see no problems or concerns in April with the times we were off line.
5. May 26 is where I started the new river flow chart and with the times we were off I see no problems. June is the same way.
6. July, August, and September are all fine. As I have talked about in past correspondence during irrigation season I try to keep 10 to 15 cfs in the river to keep from having problems down river in the delivery of irrigation water.

7. The irrigation water went out of the system on October 20 and there was no production from that point on including all of November.
8. December there was no water for power production until Dec 24. This December was also one of the coldest we have had for the longest period of time.(The ice this year got to 5-7 in. thick which is also what took out the sensors at the power plant, that I talked about replacing in my January 24, 2006 report) The float on the gage became frozen in the ice and from the chart you can see very little movement during the whole month. In looking at the graph it became frozen on Dec 8 and did not really move until the big flood waters hit on the 31st. I have enclosed the staff gage reading from the times we did run from Dec 24 through Dec 31st.

The chart was under water for almost two days and the ink has faded, but you can still barely see where it went clear of the chart on the 31st. If there is any question about the float being frozen please compare with the other months and see the activity even in normally cold weather.

I believe this to be a complete and accurate account of the river flows and power plant operation for 2005. If you have any questions please let me know.

Sincerely,

Allan Ravenscroft
Allan Ravenscroft

RATING CURVE FOR STAFF GAGE AND RECORDER
 JAYENSCROFT RANCH HYDROELECTRIC PROJECT, FERC PROJECT NO. 4055-002
 MALAD RIVER BYPASS REACH BETWEEN HEADPOND AND POWERHOUSE

Old Chart

Gage Height	Main Channel Discharge	Side Channel Discharge	Total Discharge	Gage Height	Main Channel Discharge	Side Channel Discharge	Total Discharge	Gage Height	Main Channel Discharge	Side Channel Discharge	Total Discharge
0.20	0.00	0.00	0.00	0.40	0.10	0.01	0.19	0.60	2.03	0.08	2.10
0.21	0.00	0.00	0.00	0.41	0.21	0.01	0.22	0.61	2.21	0.08	2.30
0.22	0.00	0.00	0.00	0.42	0.25	0.01	0.26	0.62	2.41	0.09	2.50
0.23	0.00	0.00	0.00	0.43	0.29	0.01	0.30	0.63	2.62	0.10	2.72
0.24	0.00	0.00	0.00	0.44	0.34	0.01	0.35	0.64	2.85	0.11	2.96
0.25	0.00	0.00	0.00	0.45	0.38	0.01	0.40	0.65	3.09	0.12	3.20
0.26	0.00	0.00	0.00	0.46	0.41	0.02	0.43	0.66	3.34	0.13	3.47
0.27	0.01	0.00	0.01	0.47	0.45	0.02	0.52	0.67	3.61	0.14	3.74
0.28	0.01	0.00	0.01	0.48	0.52	0.02	0.60	0.68	3.89	0.15	4.04
0.29	0.01	0.00	0.01	0.49	0.65	0.02	0.67	0.69	4.19	0.16	4.35
0.30	0.02	0.00	0.02	0.50	0.70	0.03	0.76	0.70	4.51	0.17	4.68
0.31	0.03	0.00	0.03	0.51	0.82	0.03	0.85	0.71	4.84	0.18	5.00
0.32	0.03	0.00	0.03	0.52	0.95	0.03	0.95	0.72	5.10	0.20	5.30
0.33	0.04	0.00	0.04	0.53	1.02	0.04	1.07	0.73	5.56	0.21	5.77
0.34	0.05	0.00	0.06	0.54	1.14	0.04	1.18	0.74	5.95	0.22	6.16
0.35	0.07	0.00	0.07	0.55	1.26	0.05	1.31	0.75	6.36	0.24	6.60
0.36	0.08	0.00	0.09	0.56	1.39	0.05	1.44	0.76	6.79	0.26	7.05
0.37	0.10	0.00	0.11	0.57	1.54	0.06	1.59	0.77	7.24	0.27	7.5
0.38	0.13	0.00	0.13	0.58	1.69	0.06	1.75	0.78	7.71	0.29	8.00
0.39	0.15	0.01	0.16	0.59	1.85	0.07	1.92	0.79	8.20	0.31	8.51

171 5

h

STREAMGAGE RATING CURVE FOR STAFF GAGE AND RECORDER
 RAVENSCROFT RANCH HYDROELECTRIC PROJECT, FERC PROJECT NO. 4035-002
 MALAD RIVER BYPASS REACH BETWEEN HEADPOND AND POWERHOUSE

Old Chart

Gage Height	Main Channel Discharge	Side Channel Discharge	Total Discharge
0.80	8.71	0.33	9.04
0.81	9.25	0.35	9.60
0.82	9.81	0.37	10.18
0.83	10.40	0.39	10.79
0.84	11.01	0.42	11.43
0.85	11.65	0.44	12.09
0.86	12.31	0.46	12.77
0.87	13.01	0.49	13.50
0.88	13.73	0.52	14.24
0.89	14.48	0.55	15.02
0.90	15.25	0.58	15.83
0.91	16.06	0.61	16.67
0.92	16.90	0.64	17.54
0.93	17.77	0.67	18.45
0.94	18.68	0.71	19.38
0.95	19.61	0.74	20.36
0.96	20.59	0.78	21.36
0.97	21.59	0.82	22.41
0.98	22.63	0.86	23.49
0.99	23.71	0.90	24.61

Gage Height	Main Channel Discharge	Side Channel Discharge	Total Discharge
1.00	24.83	0.94	25.77
1.01	25.98	0.98	26.96
1.02	27.17	1.03	28.20
1.03	28.40	1.08	29.48
1.04	29.67	1.12	30.80
1.05	30.99	1.17	32.16
1.06	32.34	1.23	33.57
1.07	33.74	1.28	35.02
1.08	35.18	1.33	36.52
1.09	36.67	1.39	38.06
1.10	38.20	1.45	39.65
1.11	39.78	1.51	41.29
1.12	41.41	1.57	42.98
1.13	43.08	1.63	44.71
1.14	44.80	1.70	46.50
1.15	46.58	1.77	48.34
1.16	48.40	1.84	50.24
1.17	50.28	1.91	52.18
1.18	52.20	1.98	54.19
1.19	54.19	2.06	56.24

Gage Height	Main Channel Discharge	Side Channel Discharge	Total Discharge
1.20	56.22	2.14	58.36
1.21	58.32	2.22	60.53
1.22	60.46	2.30	62.76
1.23	62.67	2.38	65.05
1.24	64.94	2.47	67.40
1.25	67.26	2.56	69.82
1.26	69.64	2.65	72.29
1.27	72.09	2.74	74.83
1.28	74.60	2.84	77.44
1.29	77.17	2.94	80.11
1.30	79.81	3.04	82.84
1.31	82.51	3.14	85.65
1.32	85.28	3.25	88.52
1.33	88.11	3.35	91.47
1.34	91.02	3.47	94.48
1.35	93.99	3.58	97.57
1.36	97.03	3.70	100.73
1.37	100.15	3.81	103.96
1.38	103.34	3.94	107.27
1.39	106.60	4.06	110.66

← 80 CF

X

New Chart As of 26 May 2003

STATION RAVEN

STAGE-DISCHARGE TABLE
LOCATION ON RAVENSCROFT HYDRO

05/18/05

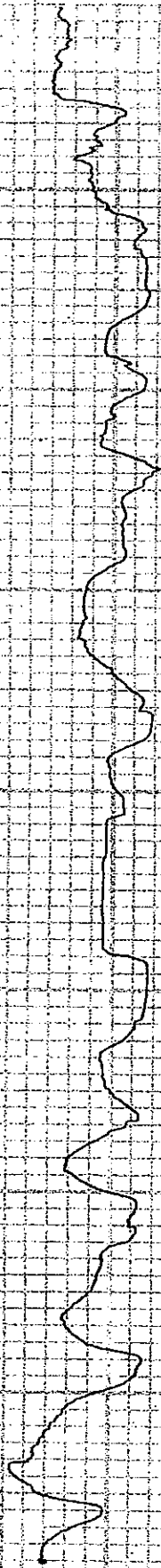
DATE	GAGE HT	Q	CORR.	DATE	GAGE HT	Q	CORR.

G.H.
FT

	DISCHARGE CFS							STATION #51		
	0	0.01	0.02	0.03	0.04	0.05	0.06	0.07	0.08	0.09
0.7	(0.18)	0.84	1.47	2.32	3.17	4.05	4.93	5.83	6.74	7.66
0.8	8.60	9.55	10.51	11.49	12.47	13.48	14.49	15.52	16.56	17.61
0.9	18.68	19.76	20.85	21.96	23.07	24.21	25.36	26.51	27.68	28.86
1	30.06	31.27	32.49	33.73	34.98	36.24	37.51	38.80	40.10	41.41
1.1	42.74	44.08	45.43	46.80	48.18	49.57	50.97	52.39	53.82	55.27
1.2	58.72	58.19	59.68	61.17	62.68	64.20	65.74	67.29	68.85	70.42
1.3	72.01	73.61	75.22	76.85	78.49	80.14	81.80	83.48	85.17	86.88
1.4	88.59	90.32	92.07	93.82	95.59	97.37	99.17	100.98	102.80	104.63
1.5	106.48	108.34	110.21	112.10	114.00	115.91	117.83	119.77	121.72	123.69
1.6	125.66	127.65	129.66	131.67	133.70	135.75	137.80	139.87	141.95	144.04
1.7	146.15	148.27	150.41	152.55	154.71	156.88	159.07	161.27	163.48	165.70
1.8	167.94	170.19	172.45	174.73	177.02	179.32	181.64	183.97	186.31	188.66
1.9	191.03	193.41	195.80	198.21	200.63	203.06	205.51	207.97	210.44	212.92
2	215.42	217.93	220.45	222.99	225.54	228.10	230.68	233.27	235.87	238.48
2.1	241.11	243.75	246.41	249.07	251.75	254.45	257.15	259.87	262.60	265.35
2.2	268.10	270.86	273.66	276.46	279.27	282.09	284.92	287.77	290.64	293.51
2.3	296.40	299.30	302.21	305.14	308.08	311.03	314.00	316.98	319.97	322.97
2.4	325.99	329.02	332.07	335.12	338.19	341.28	344.37	347.48	350.60	353.74
2.5	356.89	360.05	363.22	366.41	369.61	372.82	376.05	379.29	382.54	385.81
2.6	389.08	392.37	395.68	399.00	402.33	405.67	409.03	412.40	415.78	419.17

Time taken

4 8 12 16 20 24 28



Jan 2005

Beaver Dam Backing Water Hauling on Oage

Approximate Compliance Line

Plow Off

Plow Off

1-2 23:00 To 9:05 14:05
1-4 23:00 To 9:05 14:05
1-7 23:00 To 9:05 14:05
1-10 23:00 To 9:05 14:05
1-11 23:00 To 9:05 14:05
1-17 23:00 To 9:05 14:05

1-17 23:00 To 9:05 14:05

13:30 1-1-05 1.96 cogs
Zee & Beaver Dam
L. David & Steven for Beaver Dam

2-1-05 13:15 Tied Beaver Dam 1.86 G

Timeline

4 12 16 20 21 22 23 24

with the 12 inch of 86
Beaver Dam, 14
30000 drop 2000
141 according to
edge of 14-14-14
0 141 141 141
Tracks

Feb 2005

Stall Gage Readings

2-22 10:41 .74
17:22 .76

Beaver Dam Boats Widen on Gage
Until Feb 21 removed

2-23 8:49 .76
17:26 .78

2-24 10:11 .76
16:41 .76

2-25 8:52 .72
18:11 .78

2-26 9:20 .74
14:42 .76

2-27 9:54 .76
16:41 .76

2-28 9:28 .77
16:20 .78

Approximate Compliance Line

Play Off

2-2 9:20 - 17:00

2-3 12:00 to 17:12 2-4-05

2-6 02:30 - 15:22

2-9 05:44 day

2-18 10:00 - 23:00

2-20 05:18 - 8:49

Play Off

2-25 07:00 - 17:00

2-26 05:00 - 14:42

2-27 19:40 to 9:28

2-28-29

← Removed Beaver Dam on 2-21

Did not know at that time the water

dropped so fast, caught Gage

pen on Edge of paper and pulled

pen off its track

3-1-05 12:00
75 on Gas

Time Line

1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28

March 2005

Approx Compliance Line

Plant Off

March 2 16:02 To 8:53 March 3
March 4 16:04 - 23:30
March 6 19:00 To 06:00 3-2-05
March 7 17:47 To 18:00 3-8-05
March 10 06:30 - 18:39

Plant Off

March 16 7:53 - 18:42
March 17 12:00 - 17:20
March 17 16:00 - 17:00
March 20 18:00 - 18:00
March 22 06:00 - 17:10

Plant Off

March 26 02:00 - 20:00
To 02:00 3-27

4-1-05 16:44
28 6000

Landfield & Stevens, Inc., Houston, Tex.

Time Line

1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21, 22, 23, 24, 25, 26, 27, 28, 29, 30, 31,

April 2005

Approximate Compliance
Line

Plc. 1 off

April 4 - 05:00 - 16:30

April 5 11:00 to 02:00 April 6

April 6 10:00 - 19:43

April 7 07:00 - 21:00

April 8 08:00 - 22:00

April 9 All off

All off 12, 13, 14, 15, 16, 17, 18, 19

April 20 10:00 - 12:00

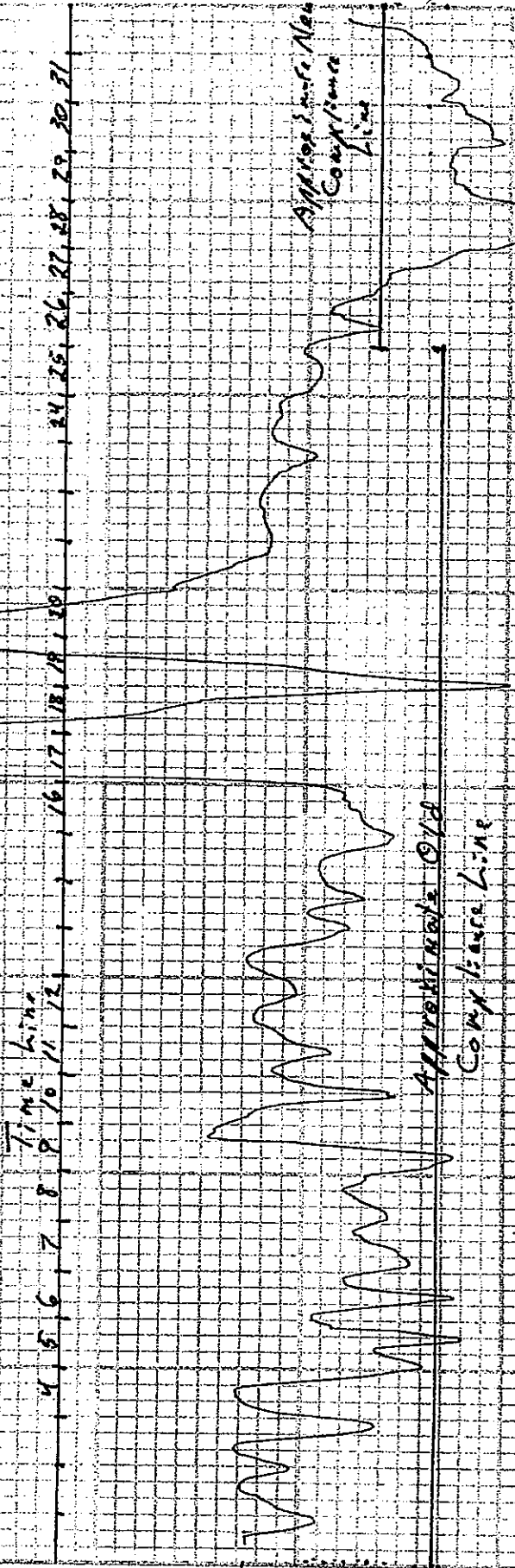
April 28 All off

April 29 All off

Approx Compliance Line

106 Case

5-1-05 12:30



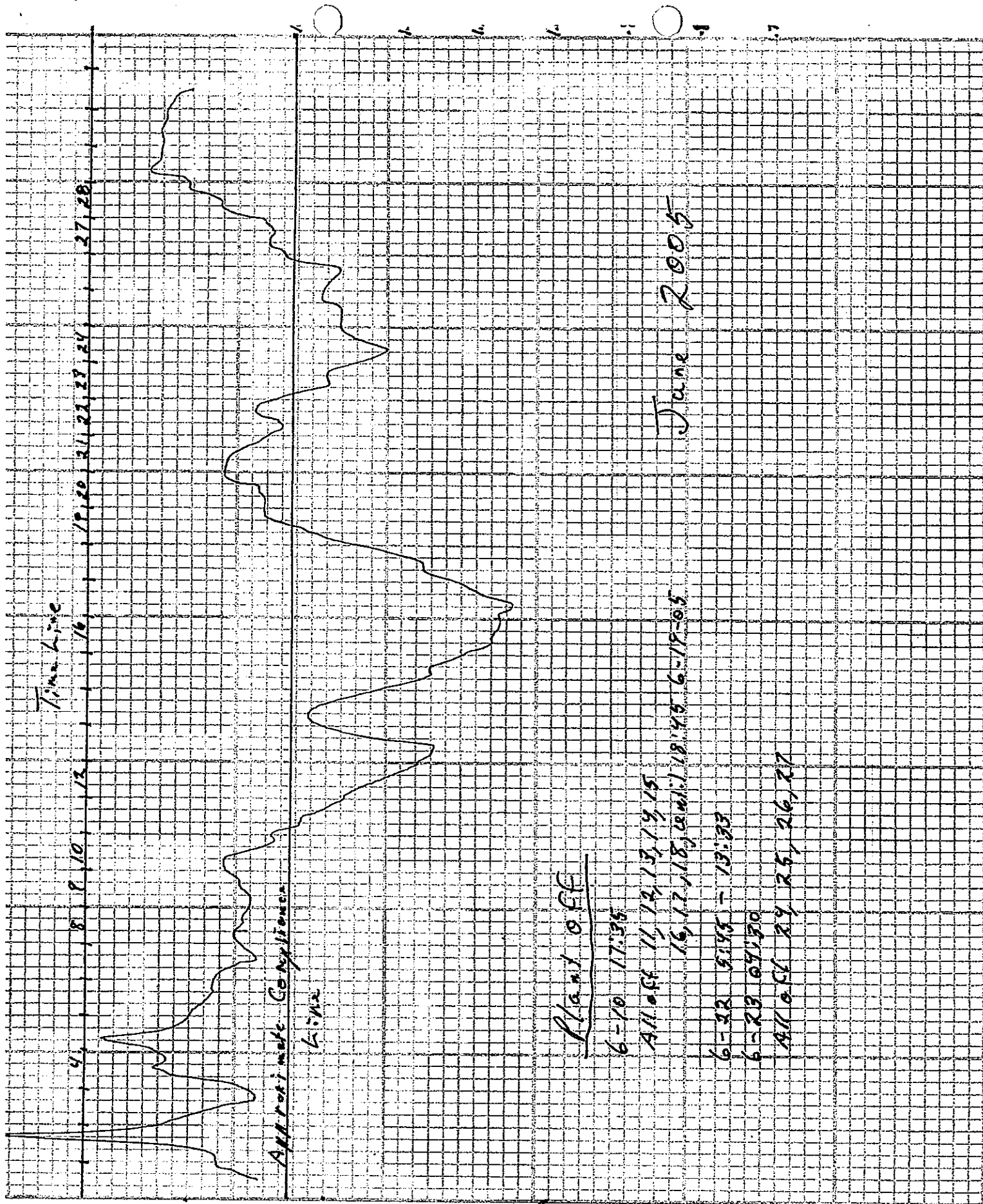
Plant Off

- 5-3 9:20 - 10:00
- 5-6 7:58 To 11:26 5-7-05
- 5-8 10:10 To 11:44 - 5-9-05
- 5-15 16:22 To 8:11 - 5-17-05
- 5-18 21:44 To 8:34 - 5-18-05
- 5-26 06:46 - 14:02
- All off 27, 28, 29, 30, 31

1 - 200 CFS of water recorded
All the way across the dam
on the case May 17, 05

May 2005

6-1-05 15:21
1.37 GASH



Plant off

6-10 17:35

All off 11, 12, 13, 14, 15

16, 17, 18, and 19, 45 6-19-05

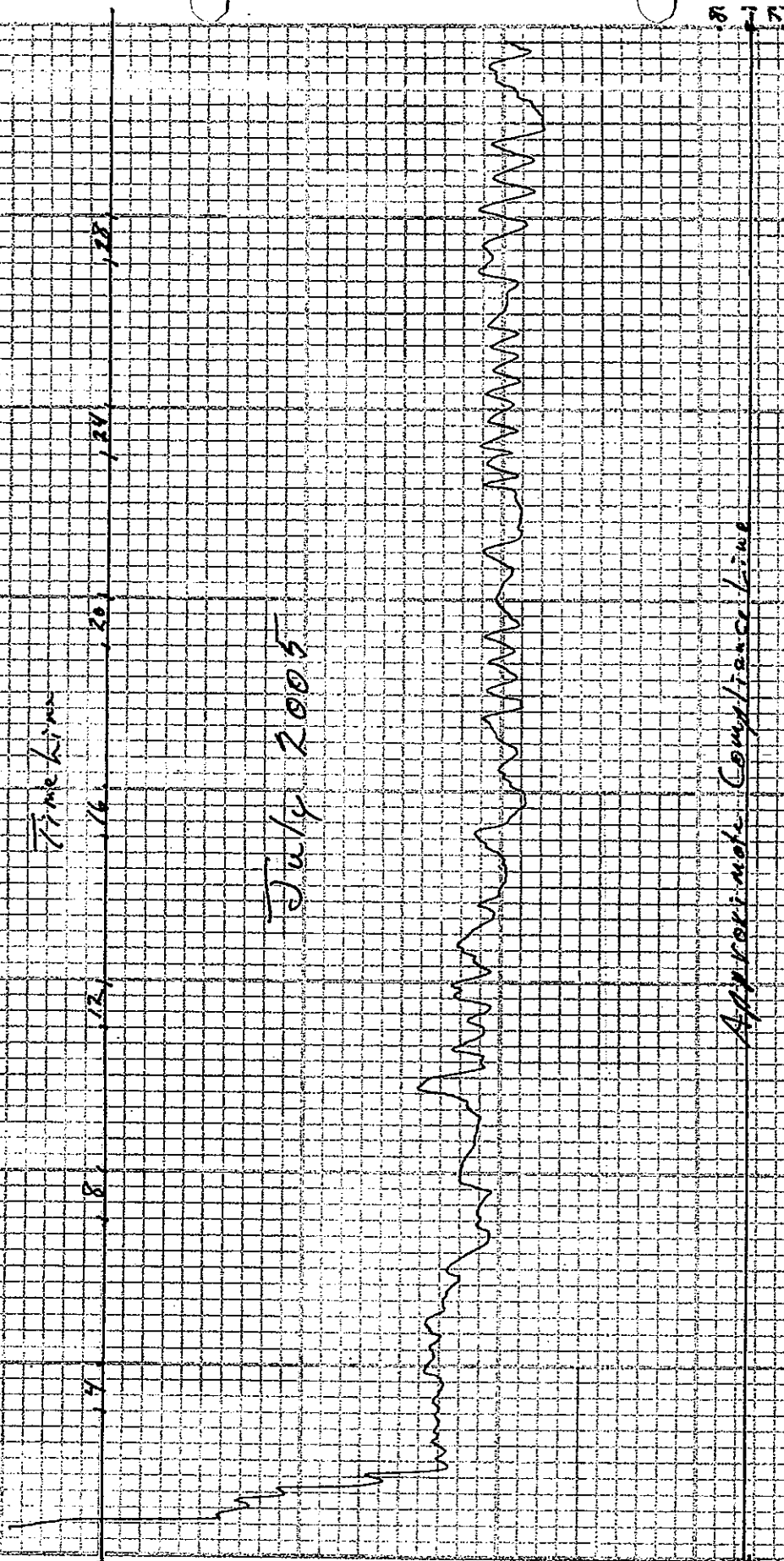
6-22 5:45 - 13:23

6-23 04:30

All off 24, 25, 26, 27

June 2005

7-1-05 13:30
1.44 gpm



6-2-92

15:00

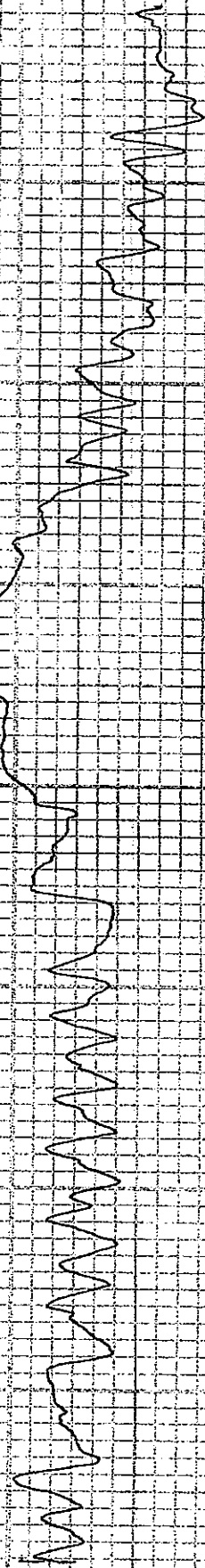
8-1-06

28

Time Line

4 8 12 16 20 24 28

Aug 2005



Approximate Compliance Line

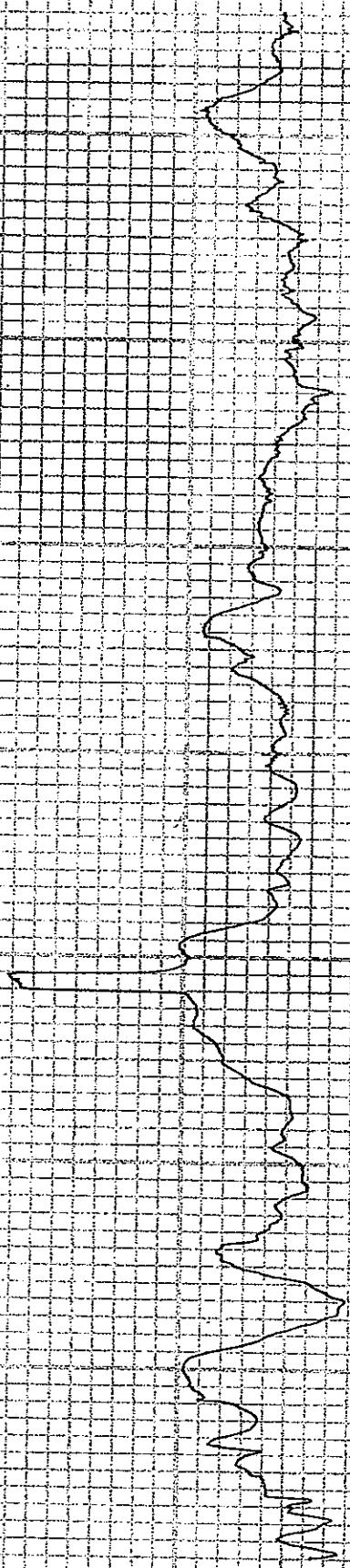
On 4/1/06

9-1-05 12:07 PM
88 6.50
80
71

Time Line

4 8 12 16 20 24 28

Sept 2005



Approximate Compliance Line

On All Month

1926
Leubold & Stevens, Inc., Beaverton, Ore.

12:45 PM

10-1-06

10-1-06

Time

Oct 2005

Approximate Compliance Line

Plant On 1-17th

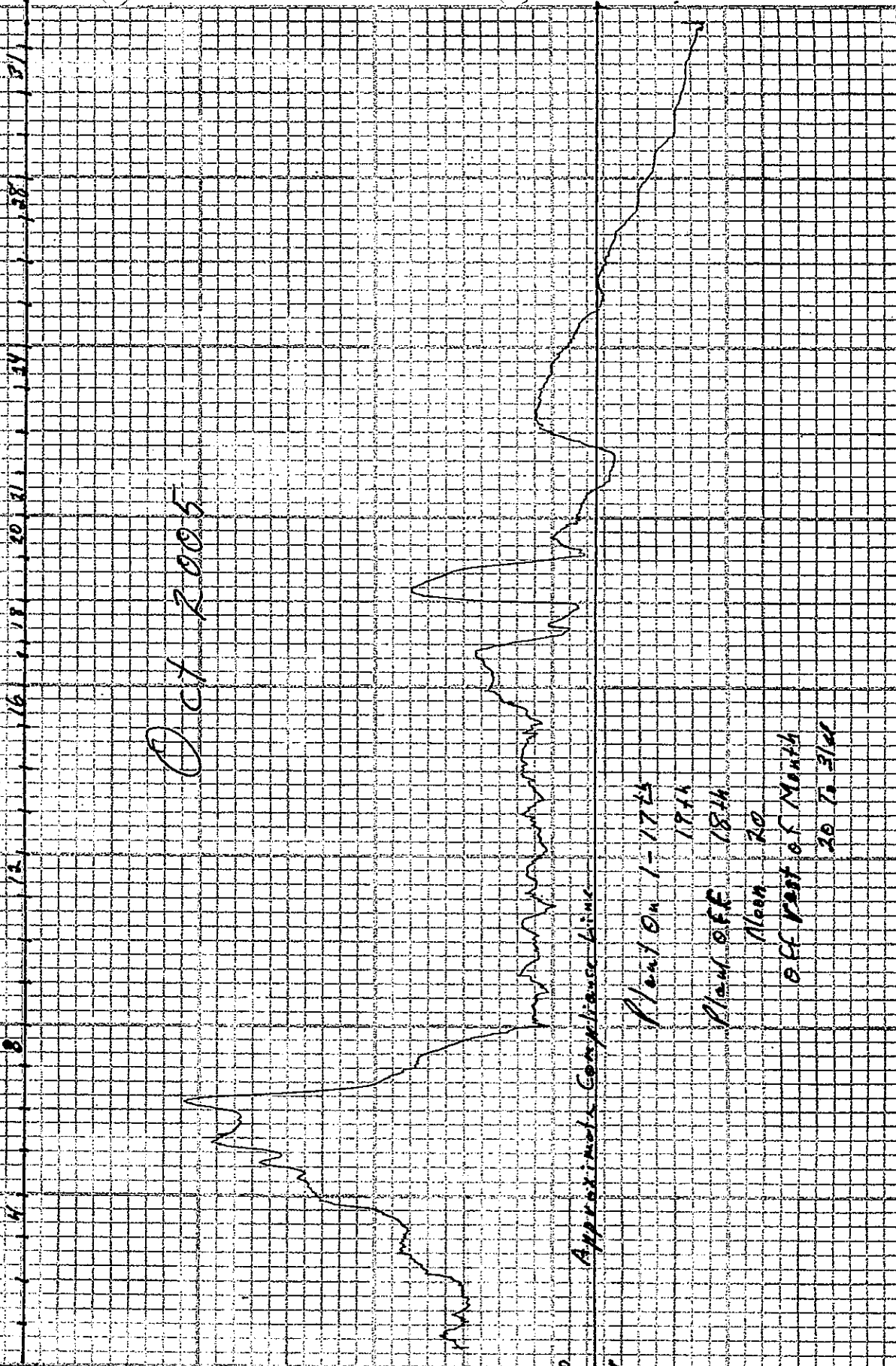
19th

Plant Off 18th

Plant On

Off rest of Month

20 to 31st



11-1-06 12:37 PM 15:30
Van der Lijde to Brakke - Max.
Leupold & Stevens, Inc., Beaverdam, Ore.

Nov. 2005

OFF ALL MONTH NO PRODUCTION

Approximate Compliance Line



7cc 14:30

2/11/62

57.01 Gage Readings

12-24 9.42 1.30
 12-25 9.42 1.10
 12-26 9.42 1.10
 12-27 9.42 1.10
 12-28 9.42 1.30
 12-29 9.42 1.30
 12-30 9.42 1.30
 12-31 9.42 1.30

Reading Chart
 Clear of Chart

Flood Night

Dec 2005

Water came up on Dec 24, but there is no change in record level
 Flood is frozen in the ice and did not become water changes until 1/11
 Flood Dec 31/05 This chart was under water Dec 31 & Jan 1, 2006

Plans operation Dec 24
 Dec 28
 Dec 29
 Dec 30
 Dec 31

Off the rest of the Month

Time line

12 14 16 18 20 22 24 26 28 30 32

Approximate Compliance line

Flood for Gage Frozen in Ice
 did not Record Level changes

FEDERAL ENERGY REGULATORY COMMISSION
Washington, D.C. 20426

OFFICE OF ENERGY PROJECTS

Project No. 4055-040 & -041 -- Idaho
Ravenscroft Ranch Project
Vernon F. Ravenscroft

Mr. Allan Ravenscroft
1331 Shoestring Road
Bliss, ID 83314

March 13, 2006

Subject: Annual bypass minimum flow report for 2005; Report of recent flooding issues; Requested Actions

Dear Mr. Ravenscroft:

We received your January 26, 2006 bypass minimum flow report for 2005, and your report on the effects of recent flooding on streamflow gaging, dated January 24, 2006. You filed the annual report in response to our September 12, 2000 letter, in which we requested annual reports from the Ravenscroft Ranch Project. The reports are to be filed by January 31 following the year covered in each report, and each report is to include the current stage/discharge table for the recording streamflow gage at the project.

The project's minimum flow requirements, stipulated in the Commission's July 23, 1996 Order Amending Exemption Article 2 Terms and Conditions, are 5 cubic feet per second (cfs) July 1 through April 15, and 80 cfs April 16 through June 30.¹ The flows are monitored using a river stage recorder and stage/discharge table.

Annual Bypass Minimum Flow Report

In your January 26, 2006 report, you included monthly flow records from the recording gage for each month in 2005, annotated to show the required minimum flow and the days on which the project was operated. You also included copies of the project's previous stage/discharge rating chart, and the chart that was put into service in May 2005.

You noted that, during February, you removed some beaver dams from the monitoring reach, and a resulting sudden reduction in water level caused the pen on the chart recorder to become caught, creating inaccurate recordings from February 21 through the rest of the month. However, you included twice-daily staff gage readings that verified that flow releases were well above those required. Following that, through November

¹ 76 FERC ¶ 62,052 (1996).

2005, records from the project's chart recorder indicated that project passed minimum flows during all periods of operation. In December 2005, there was not enough inflow for generation until the 24th of the month. During most of the month, the recording gage was also frozen and inoperable. For the days the project operated from the 24th on, you included twice-daily staff gage readings indicating that required flows were passed.

Flooding Report

In your January 24, 2006 report, you informed us of a flood event that occurred on the Malad River starting on this New Years' Eve. You reported that the water was over the top of the recording gage box for a short period. However, you were able to clean and repair the gage, and it was returned to operation January 19, 2006. While the gage was out of operation, you took twice-daily staff gage readings, which you included in your report.

You wrote that, as a result of the ice and January flooding, the channel in which the recording gage is located widened and was cleaned out of debris. You indicated that you believe that any error in the gage's readings would now favor the recording of less water than was actually present in the channel. You wrote that you would work with the local Water Master again this year to take new flow measurements to provide an updated stage/discharge chart before the year is over.

You noted that the icing problems in December crushed the sensors in the powerhouse that started and stopped generation in order to maintain compliance. You replaced the sensors with more modern units that will be much more accurate, and help to further ensure flow compliance. You also noted that you have continued to remove beavers from the area, and that your beaver control efforts will continue.

Conclusions and Requested Actions

Thank you for filing your 2005 bypass minimum flow report, and your efforts in maintaining and recording minimum flows at the project. Please note that your next bypass minimum flow report, for the year 2006, will be due January 31, 2007, and will need to include a copy of the current stage/discharge table for the gage at the project.

We appreciate you efforts last year to ensure the accuracy of streamflow monitoring at the Ravenscroft Ranch Project, and your desire to ensure continued gaging accuracy following the icing and flooding earlier this year. Please file a report with us, by June 30, 2006, indicating your success to date in obtaining measurements to produce an

updated stage/discharge rating table, and include copies of any correspondence you have with the Water Master or other entities regarding your efforts.

If your work indicates changes to the stage/discharge relationship in the range of flows required by the project's article 2 requirements, please file copies of a revised stage/discharge table with the Commission in Washington, D.C, and the Commission's Portland Regional Office. Please also file copies with the Idaho Department of Fish and Game, Idaho Department of Water Resources, Bureau of Land Management, and the U.S. Fish and Wildlife Service at the same time. Until a new stage/discharge table is filed, please continue to use your existing May 2005 table to monitor minimum flow compliance.

Thank you again for you efforts in these areas. If you have any questions, please contact me at (202) 502-6129.

Sincerely,



B. Peter Yarrington
Fisheries Biologist
Division of Hydropower Administration
and Compliance

cc: David Parrish
Idaho Department of Fish and Game
868 East Main Street
P.O. Box 428
Jerome, ID 83338

Water Master
Idaho Department of Water Resources
P.O. Box T
Shoshone, ID 83352

Gary Wright
Bureau of Land Management
Shoshone Field Office
P.O. Box 2-B
Shoshone, ID 83352

Jeffrey Foss
U.S. Fish and Wildlife Service
1387 South Vinnell, Suite 368
Boise, ID 83709

June 26, 2006

Project # 4055-036-Idaho
Ravenscroft Ranch Project

The Secretary
FERC
Mail Code PJ-12.3
888 First St., NE
Washington, D.C. 20426

Dear Mr. Yarrington:

This letter is in response to my email to you on April 7, 2006; follow up emails between us and your request in your March 13, 2006 letter for an update on efforts for a corrected river flow chart based on the river bed changes from high water periods earlier in the year.

River Flow Gage:

In my email of April 7, 2006 I informed you I had removed the river flow gauge recorder due to high water. The gauge was put back in place on June 22, 2006. The gauge was out all this time due to the actual flooding of the box it sits in: the water was too high to read on the staff gauge: or the reading on the staff gauge was still too high to get an accurate correlation between the staff gauge and the recorder.

I have included print outs of the river flow from the USGS gauging station # 21 less than a mile above our project. There are no other water diversions between the USGS station and our project. Our plant when all three turbines are running uses 210 cfs of this recorded amount. The rest of the flow is in the river channel that would have been recorded by our flow gauge if it was in place. These print outs cover from April 9, 2006 through June 22, 2006, so cover all but two days the gauge was out. The only time the differences come close is on June 21 and 22. These two days I was only running two turbines for usage of 180 cfs which should have left 120 cfs in the river. I have maintained 80 cfs in the river since or have been turned off when the river dropped further. This will be reported in the annual report due January 2007.

River Flow Chart:

As you can see from the USGS flow reports the river has been too high to even try to get any new readings. The river has now dropped to the point we will start getting new readings yet this week. The river is currently below 80 cfs and the plant is turned off, but will start taking readings in the full range between 5 and 100 cfs to build a new table as soon as possible. I think this can be accomplished within the next three months. (July, August & September) I will submit a new river flow table by the end of September, 2006.

This last round of flooding and high water has even widened and cleaned out the river channel even more. For any given reading off the current table there will be more water in the river than indicated. This makes all current errors in favor of more water in the river. I will continue to use the current table until I can get the new one submitted.

If I can provide any further information, please let me know. Your help as always is greatly appreciated.

Sincerely,

Allan Ravenscroft

cc: Dave Parish
Idaho Dept of Fish and Game
318 South 417 East
Jerome, ID 83338

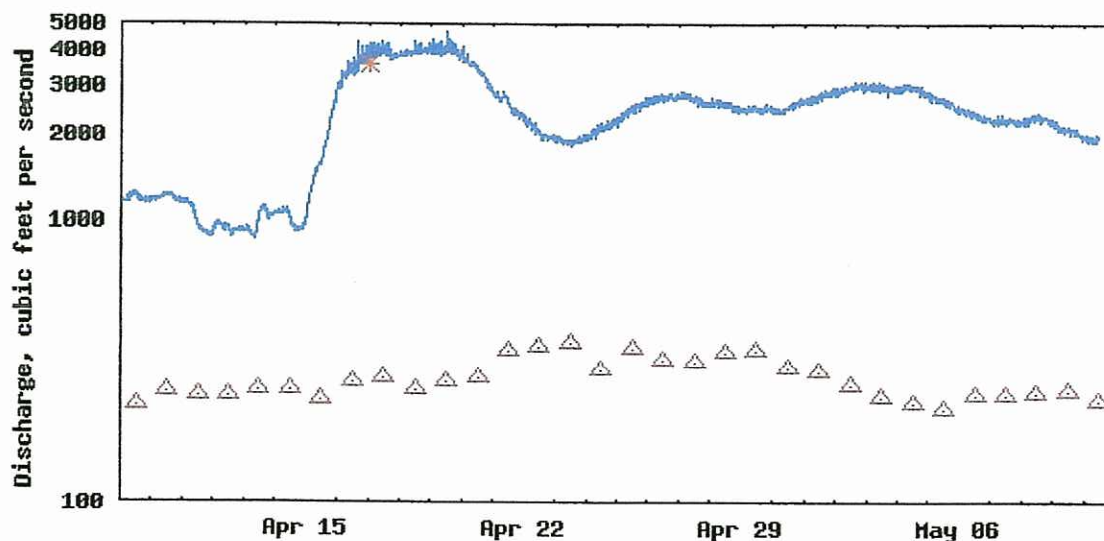
Watermaster
Idaho Dept of Water Resources
P.O. Box T
Shoshone, ID 83352

Gary Wright
Bureau of Land Management
P.O. Box 2-B
Shoshone, ID 83352

Jeffrey Foss
Snake River Field Office
U.S. Fish and Wildlife Service
1387 South Vinnell, Suite 368
Boise, ID 83709



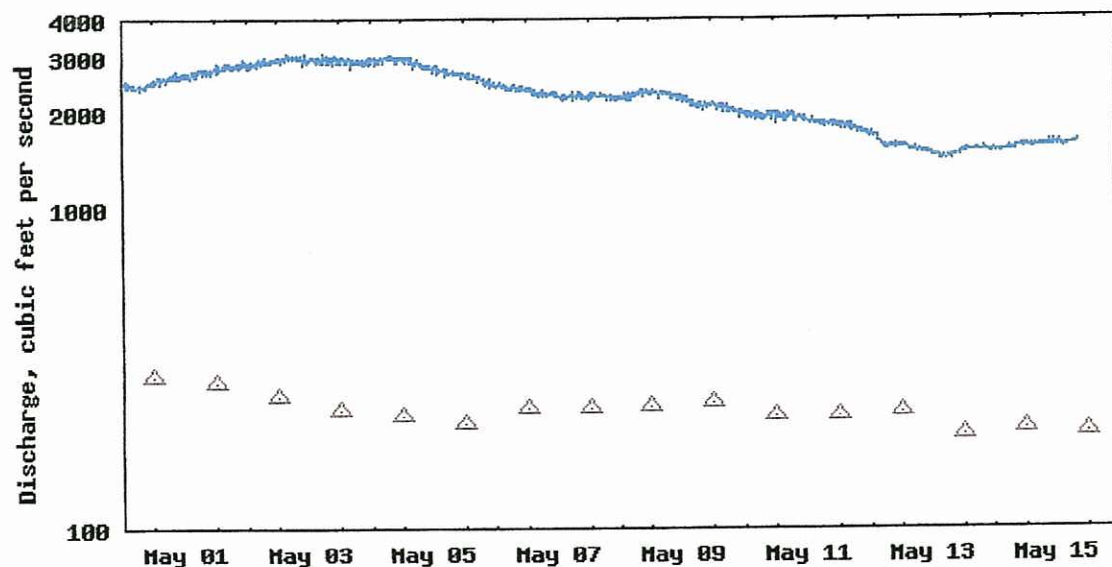
USGS 13152500 MALAD RIVER NR GOODING ID



----- EXPLANATION -----
— DISCHARGE
△ MEDIAN DAILY STREAMFLOW BASED ON 90 YEARS OF RECORD
* MEASURED Discharge

Provisional Data Subject to Revision

USGS 13152500 MALAD RIVER NR GOODING ID

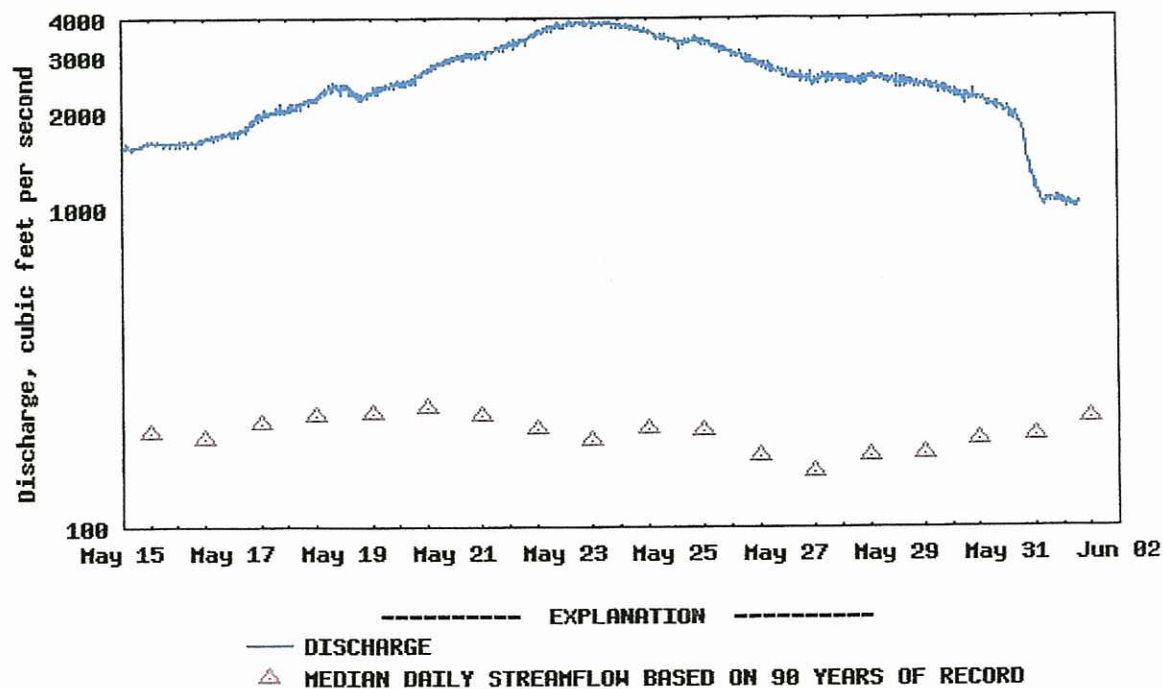


----- EXPLANATION -----
 — DISCHARGE
 △ MEDIAN DAILY STREAMFLOW BASED ON 90 YEARS OF RECORD

Provisional Data Subject to Revision



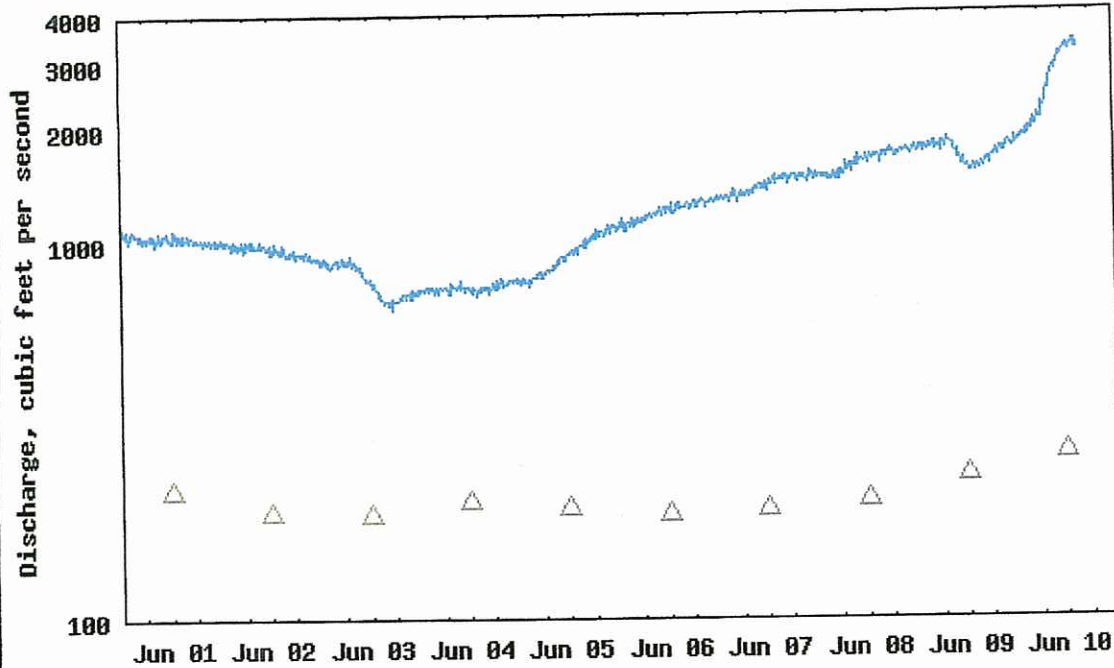
USGS 13152500 MALAD RIVER NR GOODING ID



Provisional Data Subject to Revision



USGS 13152500 MALAD RIVER NR GOODING ID

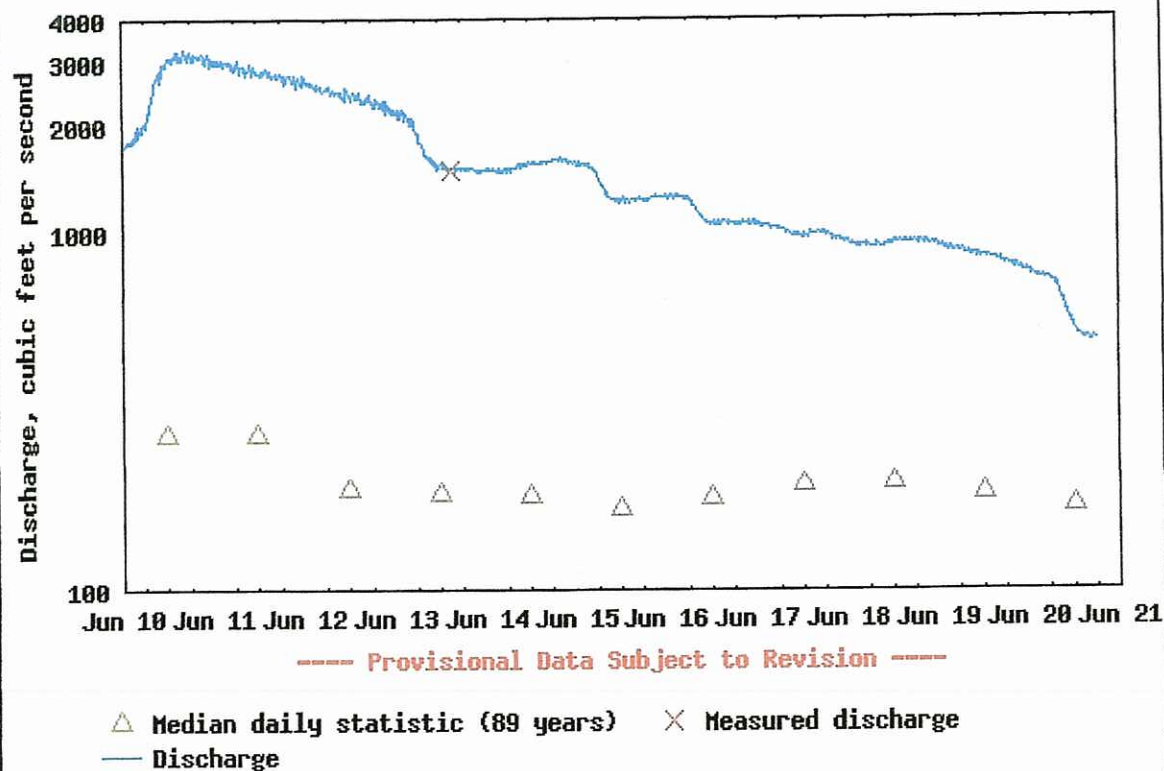


----- Provisional Data Subject to Revision -----

△ Median daily statistic (89 years) — Discharge

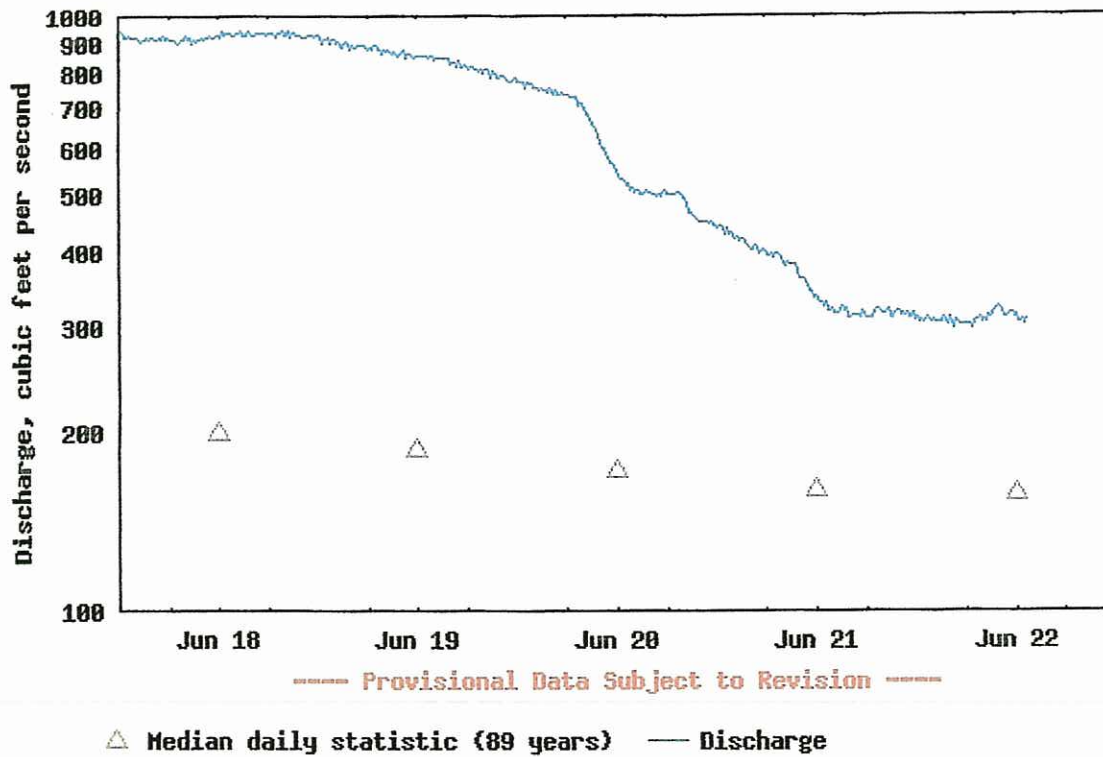


USGS 13152500 MALAD RIVER NR GOODING ID





USGS 13152500 MALAD RIVER NR GOODING ID



September 15, 2006

Project # 4055-036-Idaho
Ravenscroft Ranch Project

The Secretary
FERC
Mail Code PJ-12.3
888 First St., NE
Washington, D.C. 20426

Dear Mr. Yarrington:

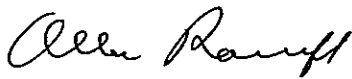
This letter is in follow up to my letter of June 26, 2006. A new river flow chart has been completed and is enclosed. I started maintaining flows based on this chart as of today.

Kevin Lakey, the water master has taken a series of new measurements on the river since July 1, 2006 after the last of the high water this year. These measurements were all taken at different levels in the 5 cfs to 80 cfs range to build the new table. His letter is enclosed along with the table.

Unless there is major flooding again next year this table should be good for a few years until something changes in the river.

If you have any questions or any more information is required, please let me know. As always your help has been greatly appreciated these last two years.

Sincerely,


Allan Ravenscroft

cc: David Parrish
Idaho Dept of Fish and Game
318 South 417 East
Jerome, ID 83338

Watermaster
Idaho Dept of Water Resources
P.O. Box T
Shoshone, ID 83352

Gary Wright
Bureau of Land Management
P.O. Box 2-B
Shoshone, ID 83352

Jeffrey Foss
Snake River Field Office
U.S. Fish and Wildlife Service
1387 South Vinnell, Suite 368
Boise, ID 83709

STATE OF IDAHO
DEPARTMENT OF WATER RESOURCES



Watermaster

WATER DISTRICT NO. 37 & 37 M

Shoshone, Idaho 83352
(208) 886-2451

September 11, 2006

To: Federal Energy Regulatory Commission

Re: Ravenscroft Hydro By-pass flows

To Whom It May Concern:

Please find enclosed the newest rating table developed for the Ravenscroft Hydro gage station on the Malad River near Gooding, Idaho.

Flow measurements were taken at various levels throughout this past summer, and I believe this rating table is an accurate and reliable representation of the flows and corresponding gage heights for this location.

If you have any questions, please feel free to call me at (208) 886-2451.

Respectfully,

A handwritten signature in black ink, appearing to read "Kevin Lakey", is written over a horizontal line.

Kevin Lakey
Watermaster, Districts 37 and 37M

STATION RAVEN

STAGE-DISCHARGE TABLE
LOCATION ON RAVENSCROFT HYDRO

09/11/06

DATE	GAGE HT	Q	CORR.	DATE	GAGE HT	Q	CORR.

G.H.
FT

G.H. FT	DISCHARGE CFS							STATION #51		
	0	0.01	0.02	0.03	0.04	0.05	0.06	0.07	0.08	0.09
0.6	4.85	4.99	5.16	5.34	5.55	5.79	6.05	6.33	6.64	6.97
0.7	7.33	7.71	8.11	8.54	8.99	9.47	9.97	10.49	11.04	11.61
0.8	12.21	12.83	13.47	14.14	14.83	15.55	16.29	17.05	17.84	18.65
0.9	19.48	20.34	21.23	22.14	23.07	24.02	25.01	26.01	27.04	28.09
1	29.17	30.27	31.39	32.54	33.71	34.91	36.13	37.37	38.64	39.93
1.1	41.25	42.59	43.95	45.34	46.75	48.19	49.65	51.13	52.64	54.17
1.2	55.73	57.31	58.92	60.54	62.20	63.87	65.57	67.30	69.05	70.82
1.3	72.61	74.44	76.28	78.15	80.04	81.96	83.90	85.86	87.85	89.86
1.4	91.90	93.96	96.05	98.15	100.29	102.44	104.62	106.83	109.06	111.31
1.5	113.59	115.89	118.21	120.56	122.94	125.33	127.75	130.20	132.67	135.16
1.6	137.68	140.22	142.78	145.37	147.98	150.62	153.28	155.97	158.68	161.41
1.7	164.17	166.95	169.75	172.58	175.43	178.31	181.21	184.14	187.09	190.06
1.8	193.06	196.08	199.12	202.19	205.29	208.40	211.54	214.71	217.90	221.11
1.9	224.35	227.61	230.90	234.21	237.54	240.90	244.28	247.68	251.11	254.57
2	258.04	261.55	265.07	268.62	272.19	275.79	279.41	283.06	286.73	290.42
2.1	294.14	297.88	301.65	305.44	309.25	313.09	316.95	320.84	324.74	328.68
2.2	332.64	336.62	340.62	344.65	348.71	352.79	356.89	361.01	365.16	369.34
2.3	373.53	377.76	382.00	386.27	390.57	394.88	399.23	403.59	407.98	412.40
2.4	416.83	421.30	425.78	430.29	434.83	439.38	443.97	448.57	453.20	457.86
2.5	462.53	467.24	471.96	476.71	481.49	486.29	491.11	495.95	500.82	505.72

FEDERAL ENERGY REGULATORY COMMISSION
Washington, D.C. 20426

OFFICE OF ENERGY PROJECTS

Project No. 4055-042 & -043 -- Idaho
Ravenscroft Ranch Project
Vernon F. Ravenscroft

Mr. Allan Ravenscroft
1331 Shoestring Road
Bliss, ID 83314

October 11, 2006

Subject: Streamflow gaging accuracy; new stage/discharge rating table

Dear Mr. Ravenscroft:

We received your June 26, 2006 report pertaining to streamflows at the Ravenscroft Ranch Project, and your September 15, 2006 report that included a new stage/discharge rating table for the project. You filed the reports in response to our March 13, 2006 letter to you, in which we requested information on your progress in developing an accurate stage/discharge rating table.

Exemption Requirements and Background

The project's minimum flow requirements, stipulated in the Commission's July 23, 1996 Order Amending Exemption Article 2 Terms and Conditions, are 5 cubic feet per second (cfs) July 1 through April 15, and 80 cfs April 16 through June 30.¹ The flows are monitored using a river stage recorder and stage/discharge table.

In 2002 work began at the project to create a new stage/discharge table to ensure that the required flows were being released, because the table then in use was over 10 years old. In a May 26, 2005 report to us, you provided a new stage/discharge table, indicating that 0.77 feet gage height equaled 5.83 cfs, and 1.35 feet equaled 80.14 cfs.

In a January 24, 2006 annual minimum flow report to us, you informed us of a flood event on the Malad River that began on New Years' Eve. Flooding continued through the spring, and you informed us via telephone and email that you were monitoring project flows with a staff gage and would be working with the local Water Master to take new flow measurements for an updated stage/discharge chart.

¹

76 FERC ¶ 62,052 (1996).

June 26, 2006 Report

In your June 26, 2006 report, you provided copies of printouts from the U.S. Geological Survey gage less than one mile upstream from your project on the Malad River. The printouts cover April 9, 2006 through June 22, 2006, and demonstrate that, at your rates of diversion, flows significantly above the minimum flow requirements continued to pass your project. You indicated that, up until the time of the report, flows had been too high to begin taking measurements to establish a new stage/discharge table, but that flows had recently dropped, and that you should be able to begin taking measurements for a new curve and rating table in the next three months. You indicated that you would include information on flows and operation in the 2006 annual report.

September 15, 2006 Report

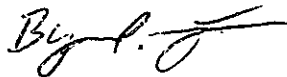
In your September 15, 2006 report, you included a new stage/discharge rating table for the project's recording streamflow gage, and a copy of a September 11, 2006 letter from the local Water Master indicating that the new table correctly correlates the water passing your gaging station with the indicated gage heights. In the new table, 0.62 feet of gage height indicates a flow of 5.16 cfs, and a gage height of 1.34 feet equals 80.04 cfs. You copied your report to the Idaho Department of Fish and Game, Idaho Department of Water Resources, Bureau of Land Management, and the U.S. Fish and Wildlife Service.

Conclusions and Requested Actions

Thank you for your efforts in maintaining accurate flow monitoring at the Ravenscroft Ranch Project. The stage/discharge table included in your September 15, 2006 report should now be used to monitor minimum flows in the project bypass reach.

We look forward to receiving your annual minimum flow report for 2006, due January 31, 2007. If you have any questions, please contact me at (202) 502-6129.

Sincerely,



B. Peter Yarrington
Fisheries Biologist
Division of Hydropower Administration
and Compliance

cc: David Parrish
Idaho Department of Fish and Game
318 South 417 Street
Jerome, ID 83338

Gary Wright
Bureau of Land Management
Shoshone Field Office
P.O. Box 2-B
Shoshone, ID 83352

Water Master
Idaho Department of Water Resources
P.O. Box T
Shoshone, ID 83352

Jeffrey Foss
U.S. Fish and Wildlife Service
1387 South Vinnell, Suite 368
Boise, ID 83709

January 29, 2007

Project # 4055-036-Idaho
Ravenscroft Ranch Project
2006 River Flow Report

The Secretary
FERC
Mail Code PJ-12.3
888 First St., NE
Washington, D.C. 20426

Dear Mr. Yarrington:

Enclosed are the 2006 river flow charts. I have also enclosed a copy of my report of January 24, 2006 dealing with pulling out the flow gage due to flooding New Years Eve: a copy of my report of June 26, 2006 dealing with the gage being pulled out of the river due to flooding and high water from April 7, 2006 to June 22, 2006: a copy of the old flow chart and a copy of the new flow chart sent in the report of September 15, 2006.

The following points are made:

January and February: I see no problems between the flow charts and the report of January 24, 2006. We were off any time the flows dropped below the compliance line.

March; The gage was pulled out on March 1 due to flooding and put back in on March 6. The water was too high during this time to get any staff gage readings. On March 18 there was a quick drop in river flow and then right back up that I believe the plant was still on. It is hard for all the equipment to shut down and respond to such a short drop in flow. At this time with all the high flows and floods the river flow pattern had already started to change as reflected in the big change on the river flow table submitted in Sept. Even though this drop was below the compliance line I believe we were never below 5 cfs.

April through June: Most of this period is covered with my report of June 26. Between the flow charts and the report I see no problems.

July: The flooding earlier in the year had deposited sediment in the recording gage pipe to the point the readings were not accurate below 12 to 15 cfs. I pulled the gage out from July one to July 4 to clean out the sediment. I finally had to buy a high pressure pump to

accomplish this job. The staff gage readings during this time frame are noted on the flow chart. I see no problems.

August: We dropped below the compliance line twice once on August 11 and the night of the 24 through the 25. Both of these times I was forcing the river down to get the required readings for the new flow chart. We can get the back up documentation from the water master if required. He took readings on both of these days. You will note from the new flow chart we were never below 5 cfs. The spikes in water flow on August 8, 9, and 22 were from opening up pipes to force the flow higher to get reading over the whole range from 5 cfs to 80 cfs. Other wise I see no problems for the month.

September, October, November and December: I see no problems

Up date on Beaver control:

With all the high water we had no problems with beavers building dams or plugging off by pass pipes to maintain required river flows. But I still had trappers come in during trapping season in November and they took out 8 beaver. This should really minimize any problems in 2007.

I believe this to be a complete and accurate account of all activities concerning river flows and plant operation for 2006. If there any questions or concerns please let me know.

Sincerely,


Allan Ravenscroft

Time Line

4, 8, 121, 161, 191, 201, 124, 25, 36, 27, 28, 37, 30, 31,

Jan 2006

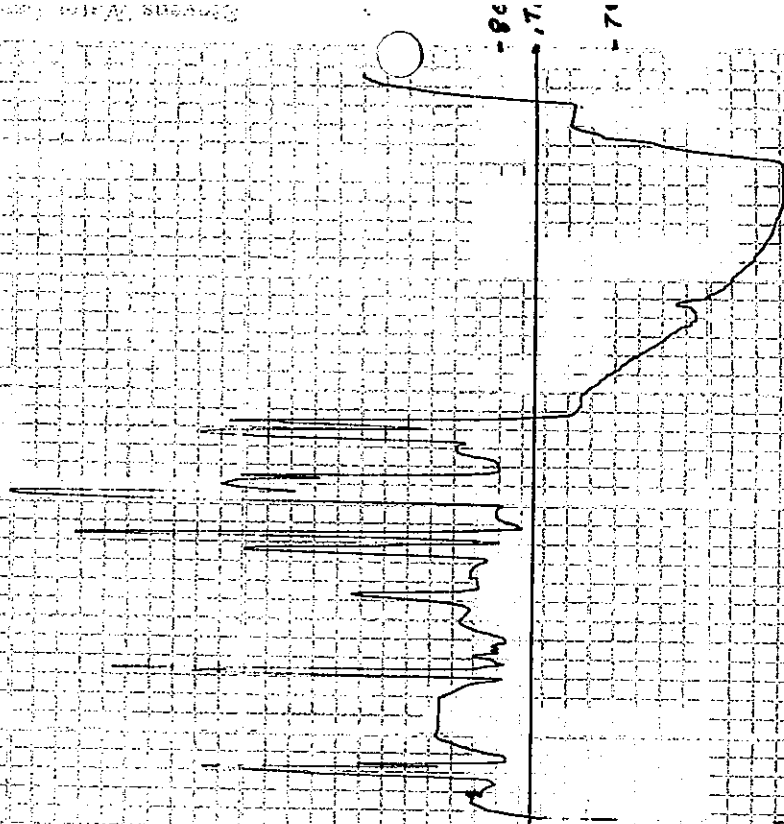
Flood New Years Eve flood gage. Gage was pulled out, repaired & put back in 19 Jan. This period covered in Report of Jan 24, 2006

(Copy enclosed)

Plant off

1-19 06:30 to 17:14
1-20 06:50 to 12:49 1-31-06
1-22 05:00 to 22:00
1-24 11:00 to 19:54 1-25-06
1-26 17:31, 27, 28, 29, 30, 31

Approximate Compliance Line



Feed Snow

1-18-06 11:00AM

78 Gage

Time Line

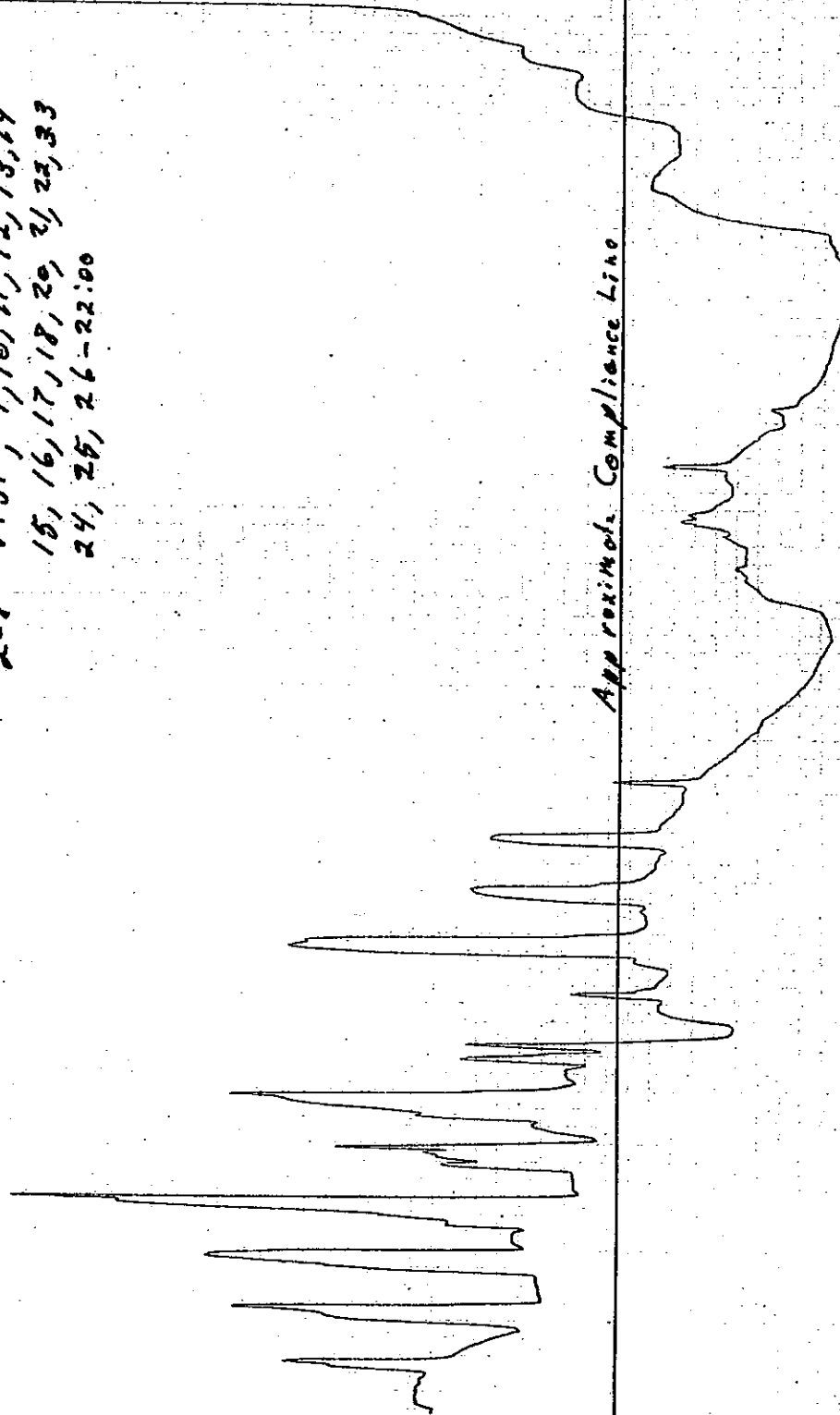
4, 5, 6, 7, 8, 12, 16, 120, 124, 25, 26, 27, 28

Feb 2006

Plant Off

2-6 12:00 To 10:24 2-07
 2-8 8:31, 9, 10, 11, 12, 13, 14
 15, 16, 17, 18, 20, 21, 23, 33
 24, 25, 26-22:00

1 Feb 06 11:12 .93 Cgs



New High Water, Gage Drum →
 Went All the way Around & Back

11:00 3-6-06

11R Gage

Time Line

14 17 20 24 28

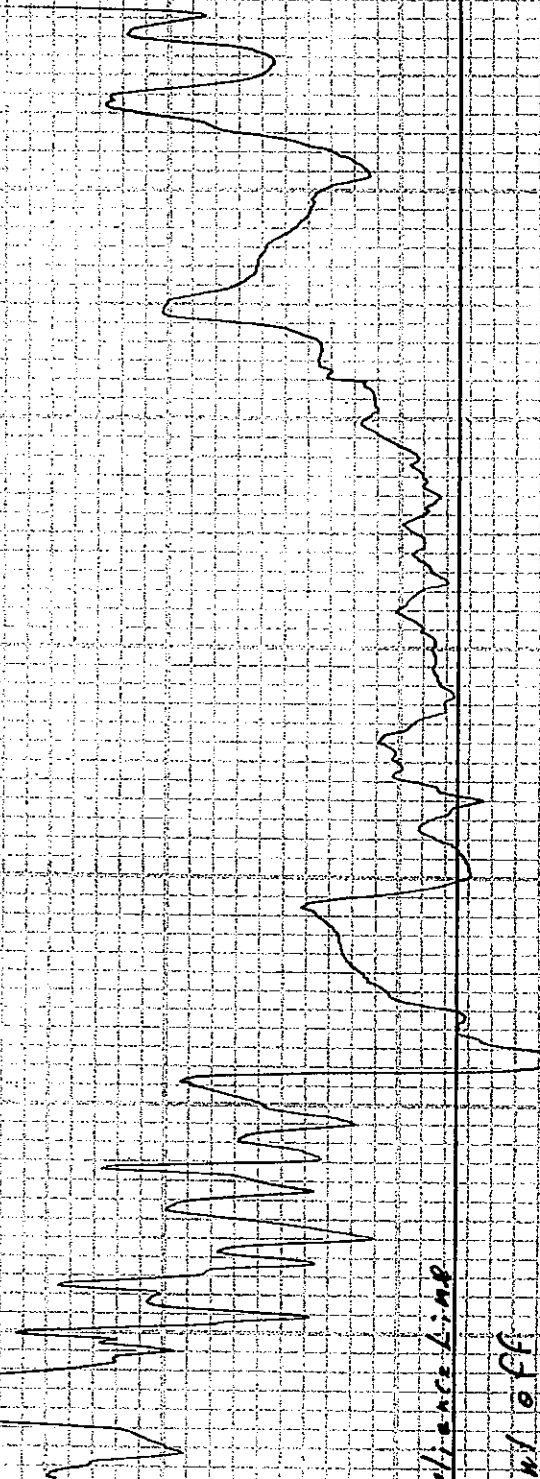
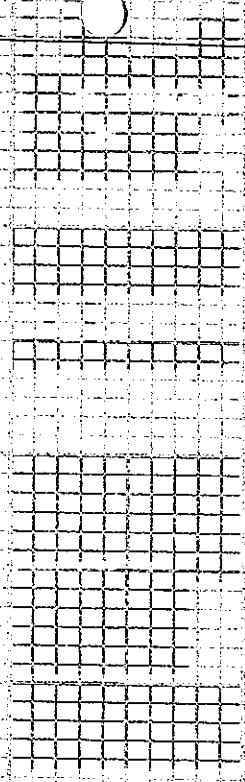
March 2006

Gage Pulled out 3-1 Due to

High water

Could not Take Staff Gage Readings, Water

Over top of Gage



Approx Compliance Line

Plant off

3-13 10:10 to 17:30 3-14

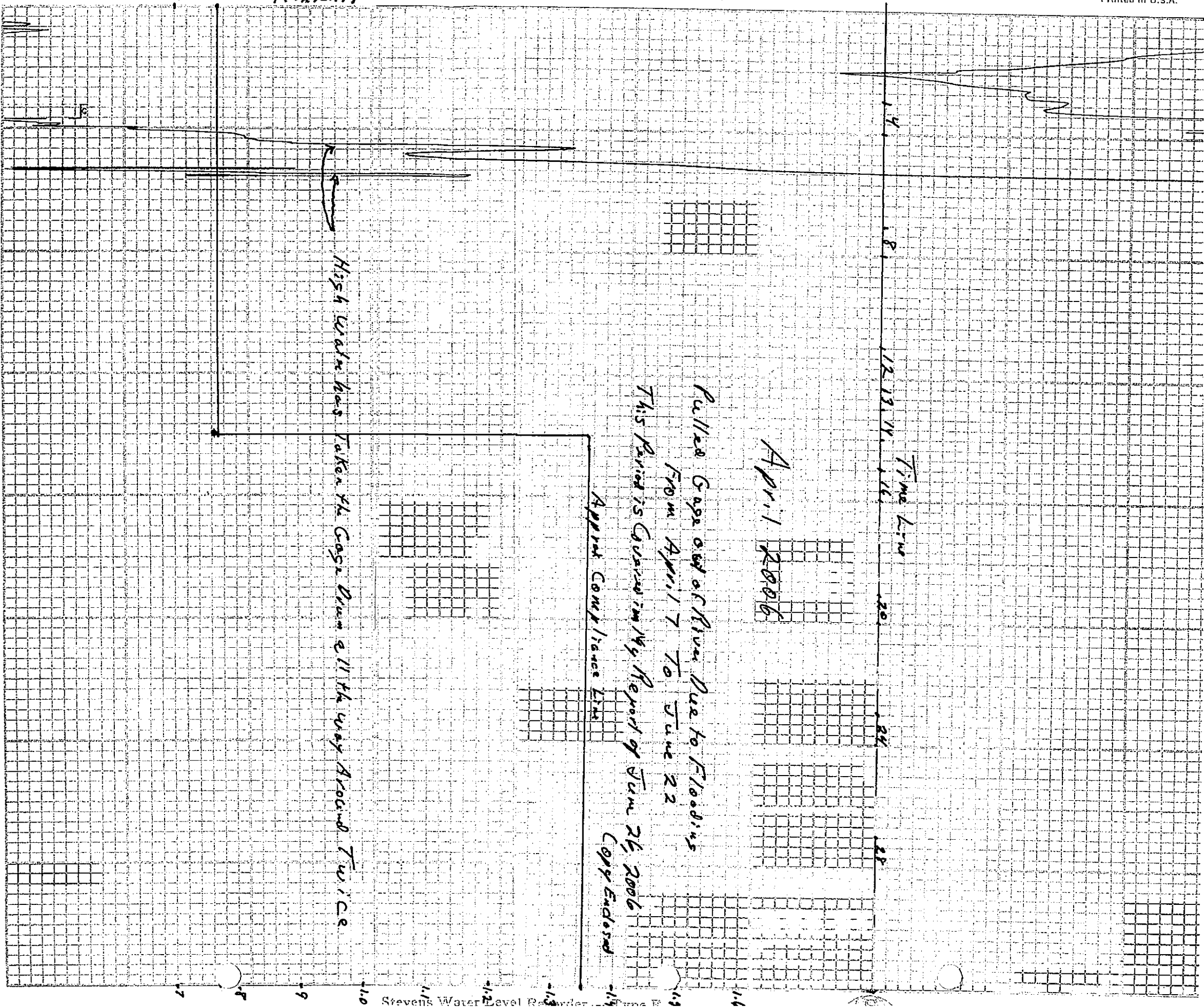
3-17 08:20 to 15:11

Leupold & Stevens, Inc., Beaverton, Ore.

1.88

4-1-06

11:22 AM



Timeline

4

8

12

16

20, 21, 22

24, 25, 26, 27, 28

June 2006

Copy Righted out 7 April to June 23

This period Covered in Report of June 26
Copy Released

Append Compliance Line

ALL OF

6-23 8:58 To 10:45

6-25 8:50 To 13:51

6-26, 27, 28, 29 & 30

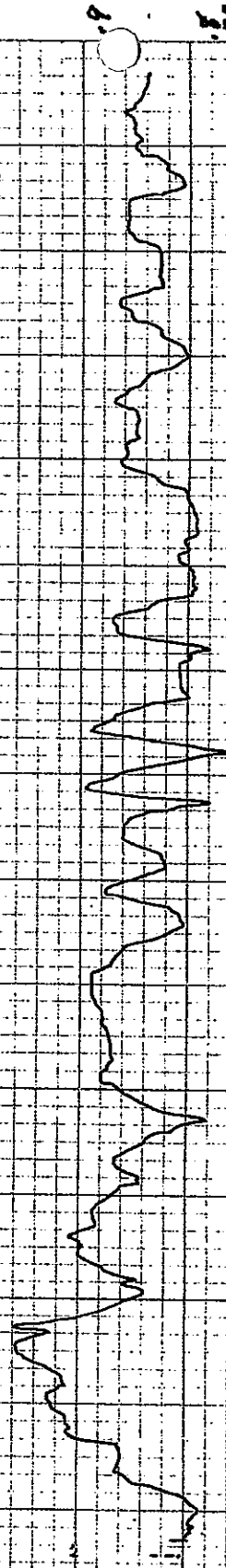
Time Line

1.4 1.8 1.2 1.6 1.24 1.28

July 2006

Gage pulled out 1 July until 4 July
 due to sediment deposited from
 all the high water. The gage was giving
 inaccurate readings below 12-15 cfs.
 Bought high pressure pump to clean, test

54-cff Gage Readings
 7-1 8:11 - .82
 17:35 - .78
 7-2 9:15 - .80
 18:33 - .84
 7-3 8:00 - .88
 18:09 - .90
 7-4 10:33 - .96
 17:49 - .82



Approx Compliance Line

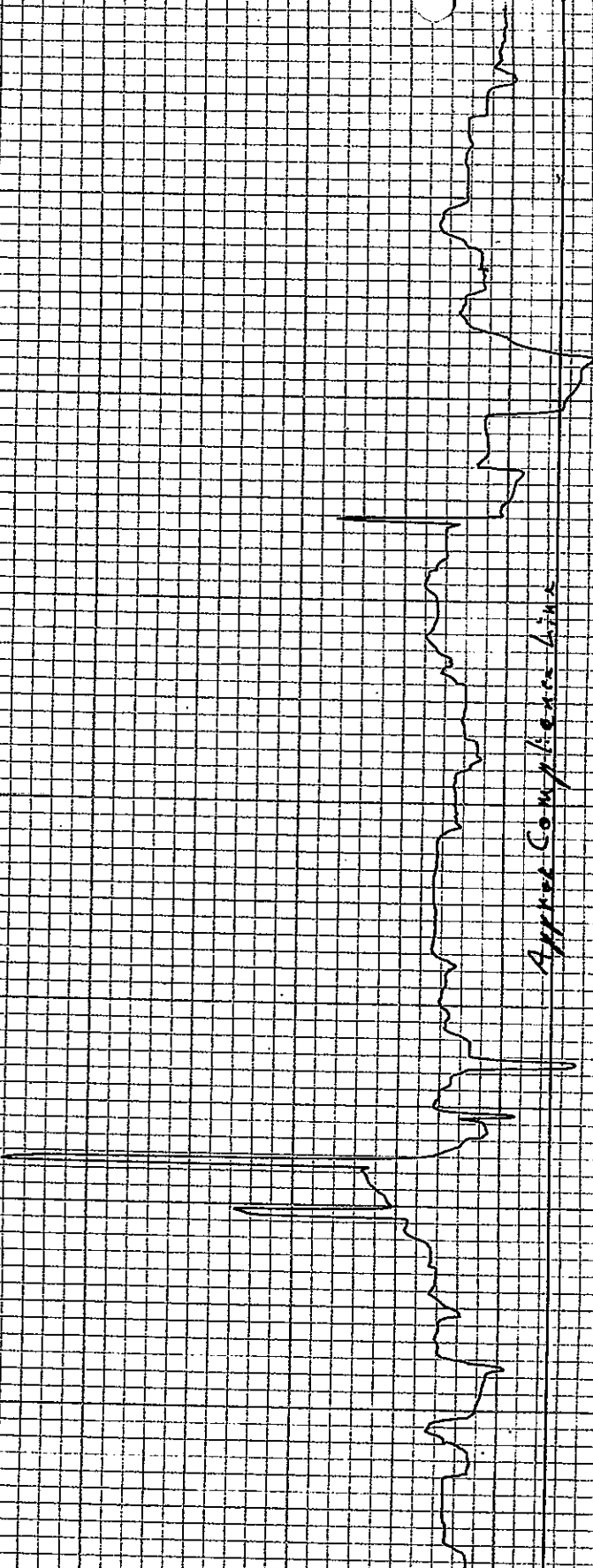
Plant off
 7-21-16:20 To 10:32 on 7-22

84 15:00 8-1-86

Time line

14 18 9 11 12 16 20 21 22 24 25 28

Aug 2006



Approved Compliance Line

On All Month

Time Line

4

7.8

12

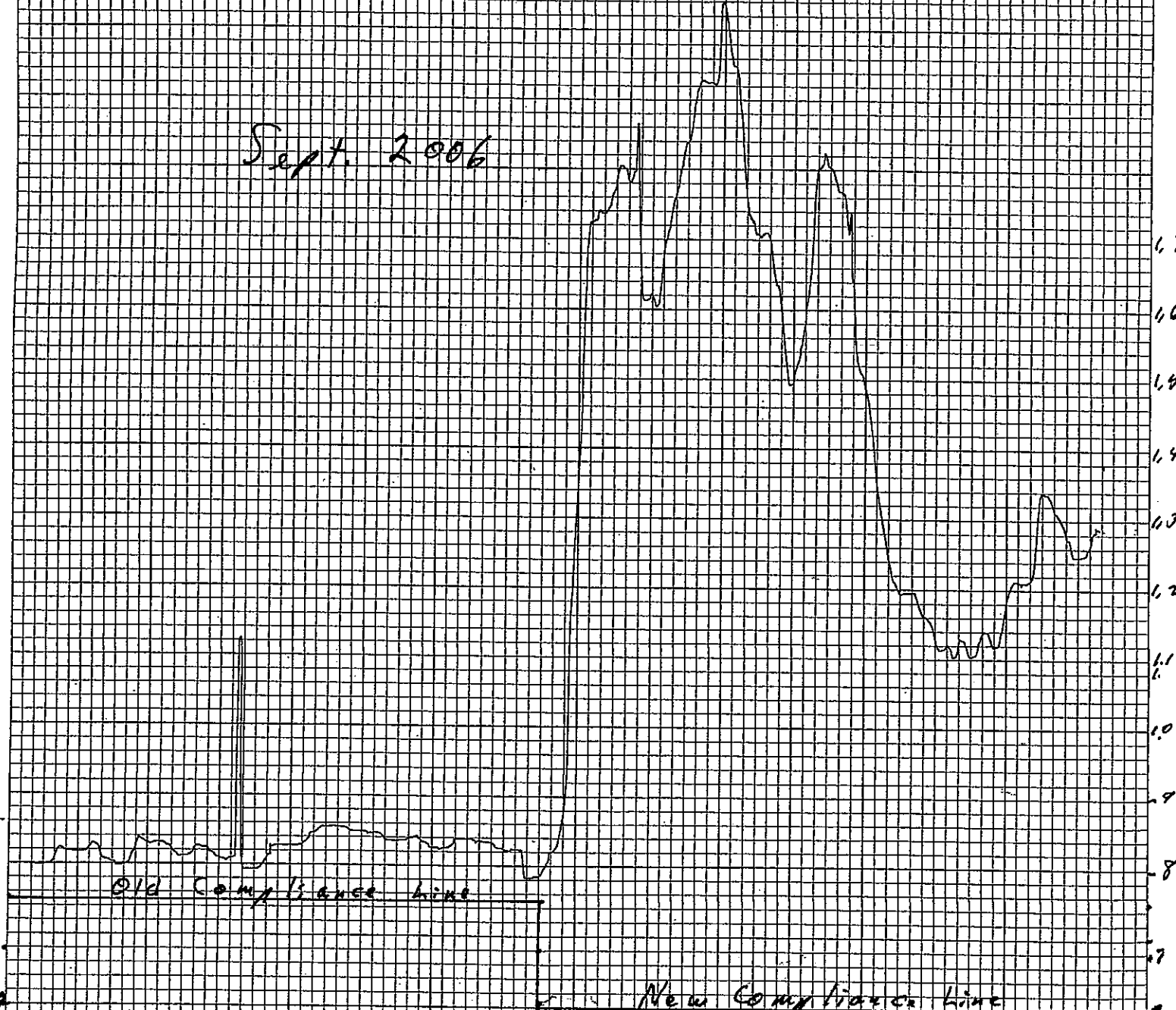
15.16

20

24

28

Sept. 2006



Time Line

Oct. 2006

Plant Off

10-18 24:00 To 10:59-10-19
10-19 16:20, 21, 22, 23, 24
25, 26, 27, 28, 29
10-30 21:20

Approx Compliance Line

1010 5000

Time Line

Nov. 2006

Plant off

11-5 - 13:00 To 17:30 - 11-7

11-8 - 8:10 To 9:37 - 11-12

11-13 13:30 - 22:00

11-17 16:20 To 9:04 11-18

11-20 21:20 To 18:30 11-21

11-22 10:20 To 0400 11-23

11-23 21:40 To 23:00 11-24

11-25 16:31 To 12:30 11-26

11-27 16:00 To 10:06 11-28

11-28 11:30 & 11:30

Approx Compliance Line



11-29 12:00

11-1-06 90-1-11

12-2-06
10:11:30

654 34 11:30

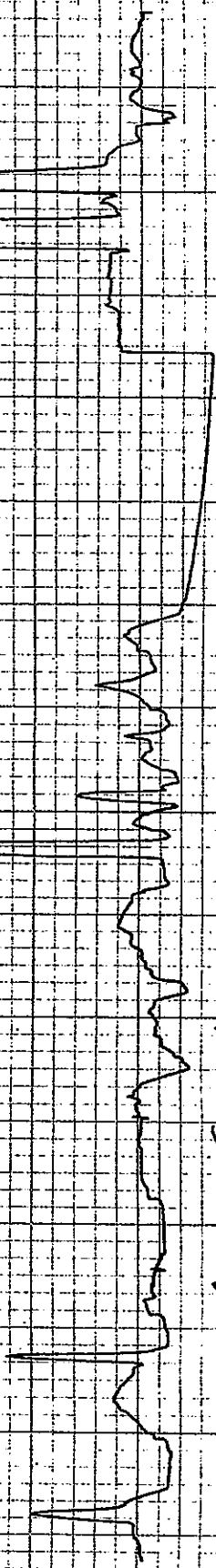
Time Line

Dec 2006

ANAL

12-2 11:48 To 04:00 -12-3
12-3 18:27 To 11:26 -12-5
12-6 11:25 To 13:34 12-8
12-11 20:20 To 08:00 12-12
12-13 09:00 To 14:39
12-16 11:00 To 16:19
12-17 03:04 To 22:00
12-19 15:00 To 16:26 -12-19
12-20 - 20:30 To 23:20 11:05 12-24
12-30 10:30 To 14:05

Approx Compliance Line



New Discharge Table

STATION RAVEN

STAGE-DISCHARGE TABLE
LOCATION ON RAVENSCROFT HYDRO

09/11/06

DATE	GAGE HT	Q	CORR.	DATE	GAGE HT	Q	CORR.

G.H. FT	DISCHARGE CFS							STATION #51	
	0	0.01	0.02	0.03	0.04	0.05	0.06	0.07	0.08
0.6	4.85	4.99	5.16	5.34	5.55	5.79	6.05	6.33	6.64
0.7	7.33	7.71	8.11	8.54	8.99	9.47	9.97	10.49	11.04
0.8	12.21	12.83	13.47	14.14	14.83	15.55	16.29	17.05	17.84
0.9	19.48	20.34	21.23	22.14	23.07	24.02	25.01	26.01	27.04
1	29.17	30.27	31.39	32.54	33.71	34.91	36.13	37.37	38.64
1.1	41.25	42.59	43.95	45.34	46.75	48.19	49.65	51.13	52.64
1.2	55.73	57.31	58.92	60.54	62.20	63.87	65.57	67.30	69.05
1.3	72.61	74.44	76.28	78.15	80.04	81.98	83.90	85.88	87.85
1.4	91.90	93.96	96.05	98.15	100.29	102.44	104.62	106.83	109.06
1.5	113.59	115.89	118.21	120.56	122.94	125.33	127.75	130.20	132.67
1.6	137.88	140.22	142.78	145.37	147.98	150.62	153.28	155.97	158.68
1.7	164.17	166.85	169.75	172.68	175.43	178.31	181.21	184.14	187.09
1.8	193.08	196.08	199.12	202.19	205.29	208.40	211.54	214.71	217.90
1.9	224.35	227.61	230.90	234.21	237.54	240.90	244.28	247.68	251.11
2	258.04	261.55	265.07	268.62	272.19	275.79	279.41	283.06	286.73
2.1	294.14	297.88	301.65	305.44	309.25	313.09	316.95	320.84	324.74
2.2	332.64	336.62	340.62	344.65	348.71	352.79	356.89	361.01	365.16
2.3	373.53	377.76	382.00	386.27	390.57	394.88	399.23	403.59	407.98
2.4	418.83	421.30	425.78	430.29	434.83	439.38	443.97	448.57	453.20
2.5	462.53	467.24	471.96	476.71	481.49	486.29	491.11	495.95	500.82
2.6	506.72	511.61	516.51	521.42	526.34	531.27	536.21	541.16	546.11

January 24, 2006

Project # 4055-036-Idaho
Ravenscroft Ranch Project

The Secretary
FERC
Mail Code PJ-12.3
888 First St., NE
Washington, D.C. 20426

Dear Mr. Yarrington:

This report is in follow up to my email of January 2 and your email response of January 3, 2006. On New Years Eve the Malad River hit flood stage. The water was over the top of the protective box the recording gage sits in (reference pictures 1 and 2) I pulled out the gage and was able to clean it up, replace the batteries , order new ink cartridge and get it back in operation. It was back recording river flows on the morning of January 19, 2006.

The following are in relation to the points you raised in your email response.

1. Enclosed is a table of the river levels I recorded while the recorder was out. Also enclosed is the current river flow chart, as reference.
2. The protective box the recording gage sits in and the staff gage are solid and did not move, even with all the water. The box is built into the bank and did not wash out. The staff gage is set in cement and it stayed put as well. (reference pictures 3&4,taken Jan.3rd) Their levels did not change.
3. With all the flood water what did change is the river flow chart that was just submitted to you with new levels in 2005. (copy enclosed) In looking at the river after the flood, the channel is wider and cleaned out. But with the recorder gage and staff gage being at fixed points, there would now be more water in the river, for any given reading. Any error at this time is in favor of more water in the river than the flow chart indicates.
4. I will again work with the water master this year taking new water measurements and provide an updated river flow chart before the year is over.
5. The ice in December crushed our sensors at the power plant that record the water levels and let us turn the plant on and off at preset water levels and to keep us in compliance. While the gage was out I also replaced the sensors with newer

technology ultra sonic sensors that work like radar and bounce a single off the surface of the water to get a reading. These sensors not being in the water get us away from problems with ice and lighting, both problems which we had this last year. With the week they have been in, they have been much more accurate than the old sensors and have lets us fine tune the system to make it that much easier to keep the water levels where they need to be to stay in compliance.

Beavers:

I'll take this chance to report on where we are at on beaver control. I had reported last year that I had killed six. In November I paid trappers to come in and they took four more out of the area we had been having trouble. At this time partly being winter I see no signs of any beaver activity, but will continue to monitor and report.

I will have the 2005 river flow report done and out to you yet this week as well. If you have any questions on the actions I have taken please let me know. Your help is appreciated.

Sincerely,



Allan Ravenscroft

cc: Dave Parish
Idaho Dept of Fish and Game
868 East Main Street
P.O. Box 428
Jerome, ID 83338-0428

Watermaster
Idaho Dept of Water Resources
P.O. Box T
Shoshone, ID 83352

Gary Wright
Bureau of Land Management
P.O. Box 2-B
Shoshone, ID 833352

Jeffrey Foss
Snake River Field Office
U.S. Fish and Wildlife Service
1387 South Vinnell, Suite 368
Boise, ID 83709

January 24, 2006

January 1 through 19 River Flow Report

Jan.1 to 3 rd.....	river too high to read (picture # 4)
Jan 4.....12:36.....	1.66
18:50.....	1.54
Jan 5..... 12:45.....	1.08
18:49.....	1.06
Jan.6.....11:30.....	.98
20:01.....	.90
Jan.7 08:51.....	.90
21:15.....	.84
Jan.8.....12:07.....	.80
21:54.....	.82
Jan.9... 08:31.....	.84
17:52.....	.82
Jan 10..... 13:71.....	.86
23:23.....	.82
Jan.11..... 10:56.....	.82
23:18.....	.80
Jan.12.....12:47.....	.82
23:37.....	.84
Jan.13.....13:59.....	.88
23:54.....	.84
Jan.14.....10:18.....	.86
17:55.....	.82
Jan.15.....12:54.....	.82
19:53.....	.82
Jan.16.....09:38.....	.80
14:34.....	.82
Jan.17.... 08:32.....	.84
15:50.....	.84
Jan.18.....12:07.....	.78
.....20:14.....	.80

Put Gage back in to record water levels at 10:40 Jan.19,2006

STATION RAVEN

STAGE-DISCHARGE TABLE
LOCATION ON RAVENSCROFT HYDRO

05/18/05

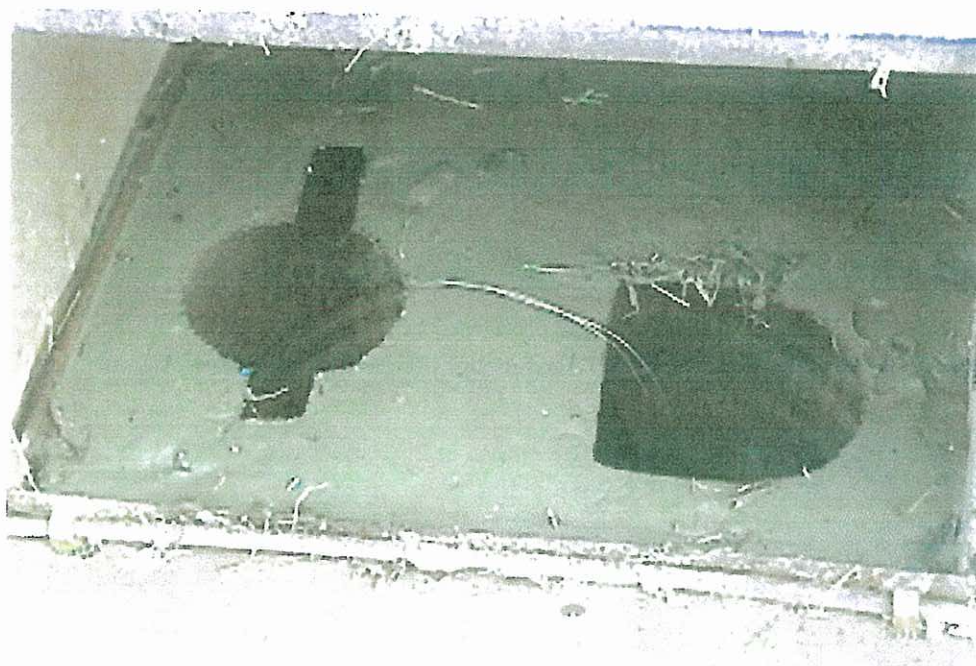
G.H. FT		DATE				GAGE HT				Q				CORR.				DISCHARGE				CFS				STATION #51							
		DATE	GAGE HT	Q	CORR.	DATE	GAGE HT	Q	CORR.	0	0.01	0.02	0.03	0.04	0.05	0.06	0.07	0.08	0.09	0.01	0.02	0.03	0.04	0.05	0.06	0.07	0.08	0.09					
	0.7																																
	0.8																																
	0.9																																
	1																																
	1.1																																
	1.2																																
	1.3																																
	1.4																																
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	2.3																																
	2.4																																
	2.5																																
	2.6																																

DATE	GAGE HT	Q	CORR.	DATE	GAGE HT	Q	CORR.

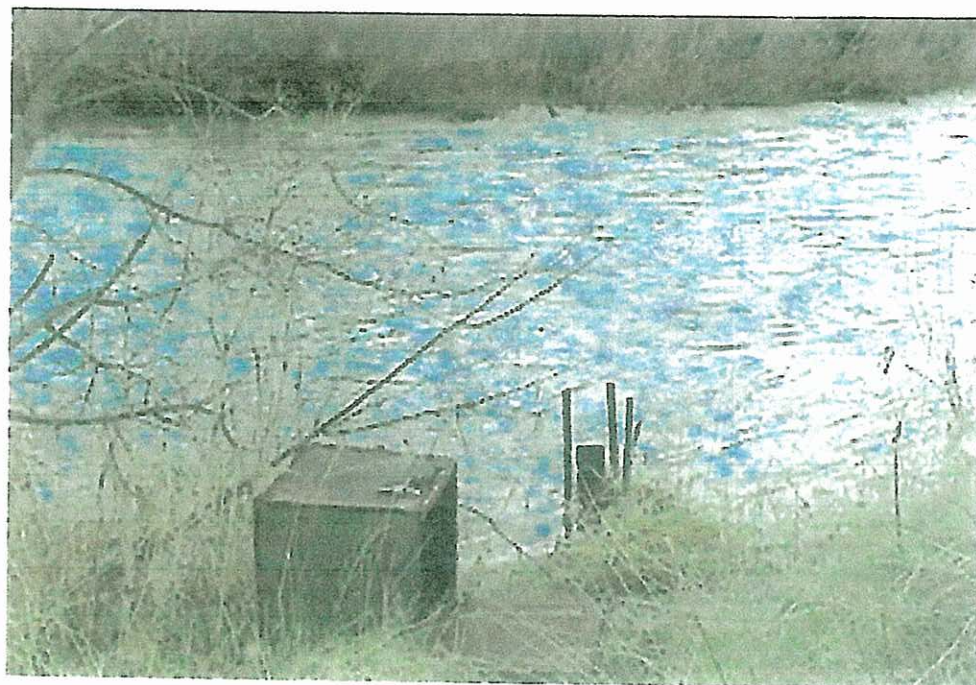
1.



2.



3.



4.



June 26, 2006

Project # 4055-036-Idaho
Ravenscroft Ranch Project

The Secretary
FERC
Mail Code PJ-12.3
888 First St., NE
Washington, D.C. 20426

Dear Mr. Yarrington:

This letter is in response to my email to you on April 7, 2006; follow up emails between us and your request in your March 13, 2006 letter for an update on efforts for a corrected river flow chart based on the river bed changes from high water periods earlier in the year.

River Flow Gage:

In my email of April 7, 2006 I informed you I had removed the river flow gauge recorder due to high water. The gauge was put back in place on June 22, 2006. The gauge was out all this time due to the actual flooding of the box it sits in: the water was too high to read on the staff gauge: or the reading on the staff gauge was still too high to get an accurate correlation between the staff gauge and the recorder.

I have included print outs of the river flow from the USGS gauging station # 21 less than a mile above our project. There are no other water diversions between the USGS station and our project. Our plant when all three turbines are running uses 210 cfs of this recorded amount. The rest of the flow is in the river channel that would have been recorded by our flow gauge if it was in place. These prints outs cover from April 9, 2006 through June 22, 2006, so cover all but two days the gauge was out. The only time the differences come close is on June 21 and 22. These two days I was only running two turbines for usage of 180 cfs which should have left 120 cfs in the river. I have maintained 80 cfs in the river since or have been turned off when the river dropped further. This will be reported in the annual report due January 2007.

River Flow Chart:

As you can see from the USGS flow reports the river has been too high to even try to get any new readings. The river has now dropped to the point we will start getting new readings yet this week. The river is currently below 80 cfs and the plant is turned off, but will start taking readings in the full range between 5 and 100 cfs to build a new table as soon as possible. I think this can be accomplished with in the next three months. (July, August & September) I will submit a new river flow table by the end of September, 2006.

This last round of flooding and high water has even widened and cleaned out the river channel even more. For any given reading off the current table there will be more water in the river than indicated. This makes all current errors in favor of more water in the river. I will continue to use the current table until I can get the new one submitted.

If I can provide any further information, please let me know. Your help as always is greatly appreciated.

Sincerely,

Allan Ravenscroft

cc: Dave Parish
Idaho Dept of Fish and Game
318 South 417 East
Jerome, ID 83338

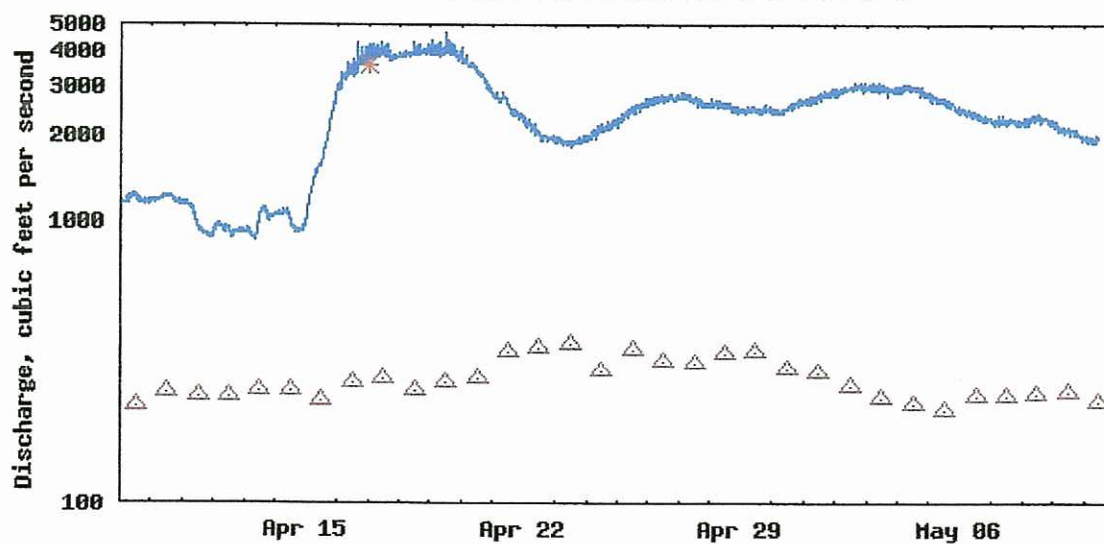
Watermaster
Idaho Dept of Water Resources
P.O. Box T
Shoshone, ID 83352

Gary Wright
Bureau of Land Management
P.O. Box 2-B
Shoshone, ID 83352

Jeffrey Foss
Snake River Field Office
U.S. Fish and Wildlife Service
1387 South Vinnell, Suite 368
Boise, ID 83709



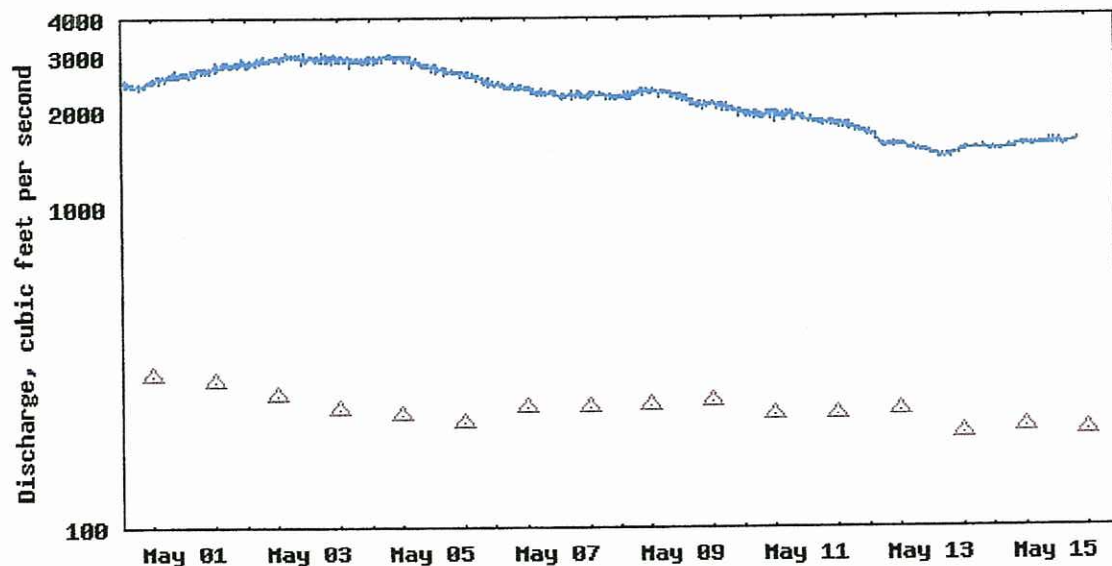
USGS 13152500 MALAD RIVER NR GOODING ID



----- EXPLANATION -----
 — DISCHARGE
 △ MEDIAN DAILY STREAMFLOW BASED ON 90 YEARS OF RECORD
 * MEASURED Discharge

Provisional Data Subject to Revision

USGS 13152500 MALAD RIVER NR GOODING ID

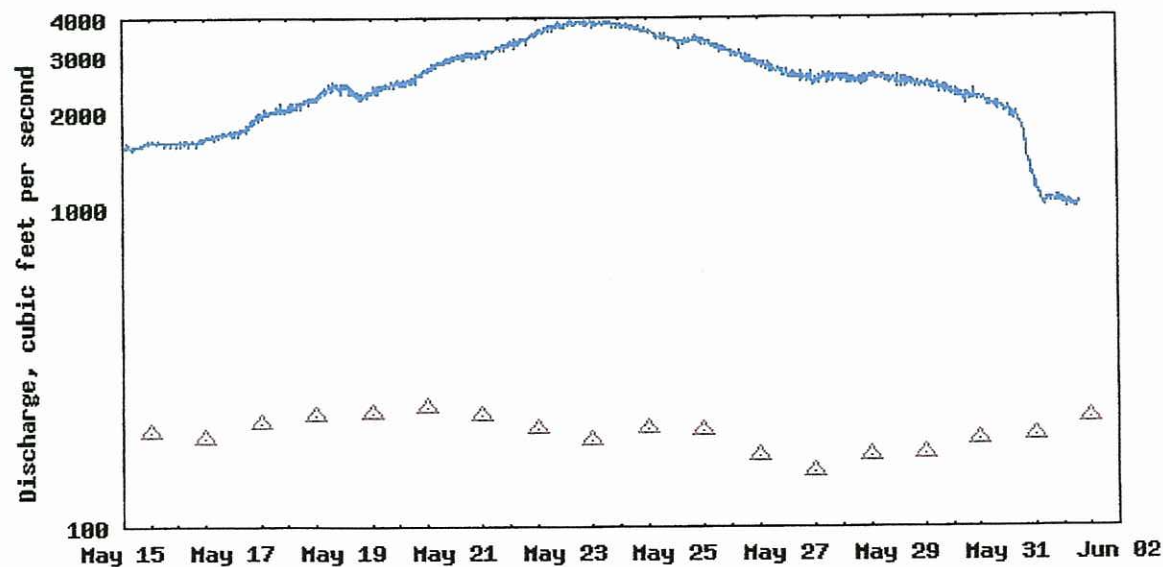


----- EXPLANATION -----
 — DISCHARGE
 △ MEDIAN DAILY STREAMFLOW BASED ON 90 YEARS OF RECORD

Provisional Data Subject to Revision



USGS 13152500 MALAD RIVER NR GOODING ID

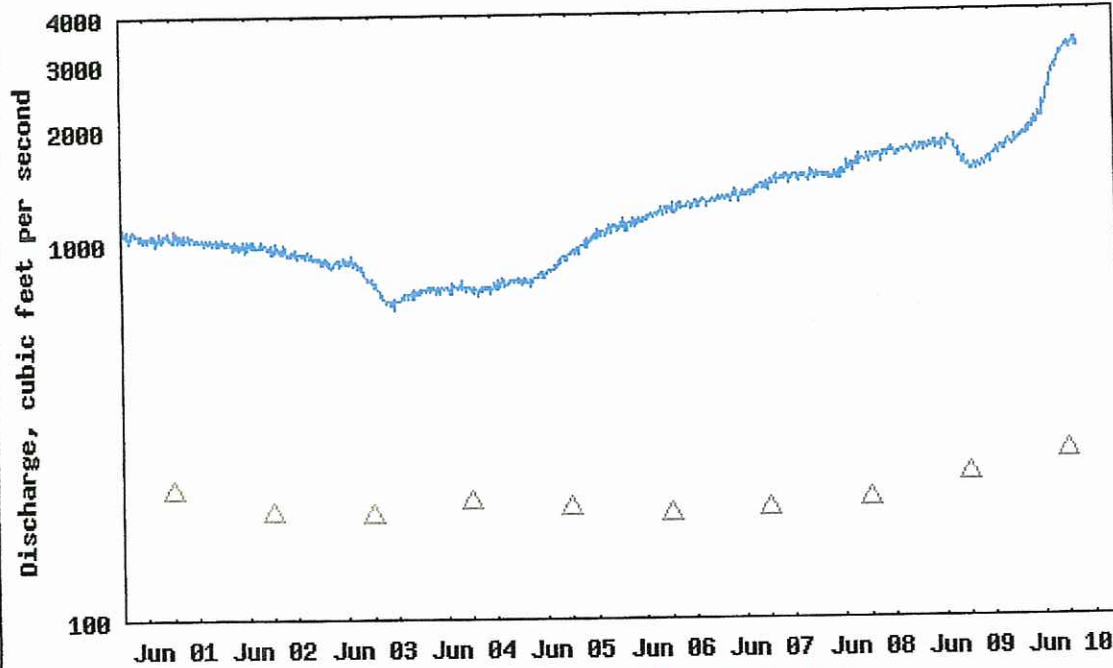


----- EXPLANATION -----
— DISCHARGE
△ MEDIAN DAILY STREAMFLOW BASED ON 98 YEARS OF RECORD

Provisional Data Subject to Revision



USGS 13152500 MALAD RIVER NR GOODING ID

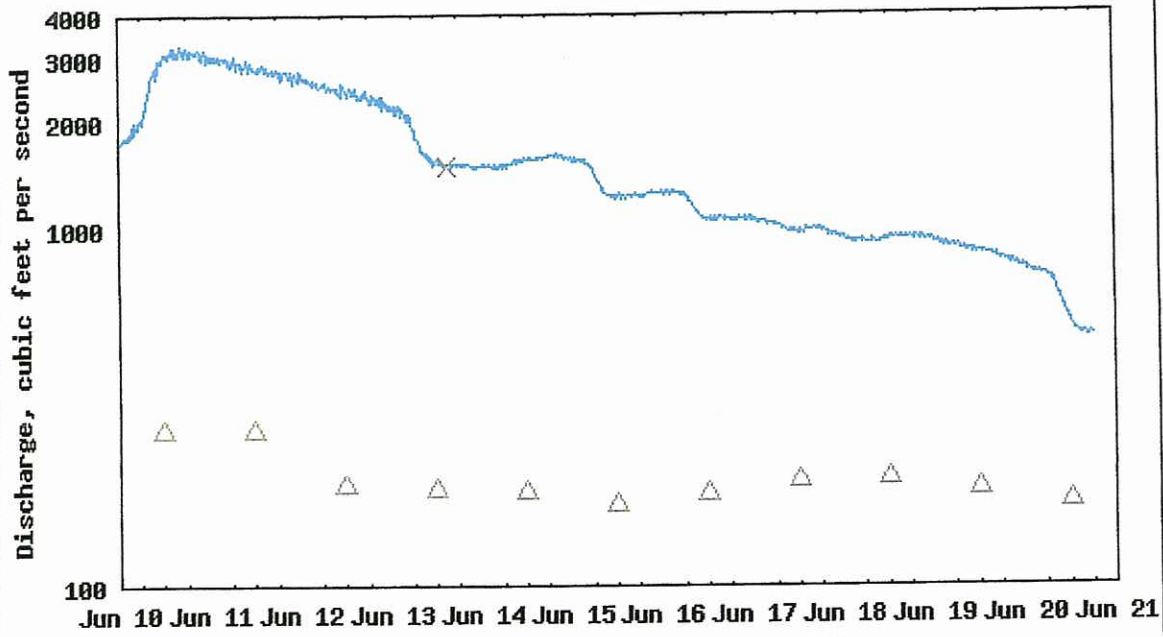


----- Provisional Data Subject to Revision -----

△ Median daily statistic (89 years) — Discharge

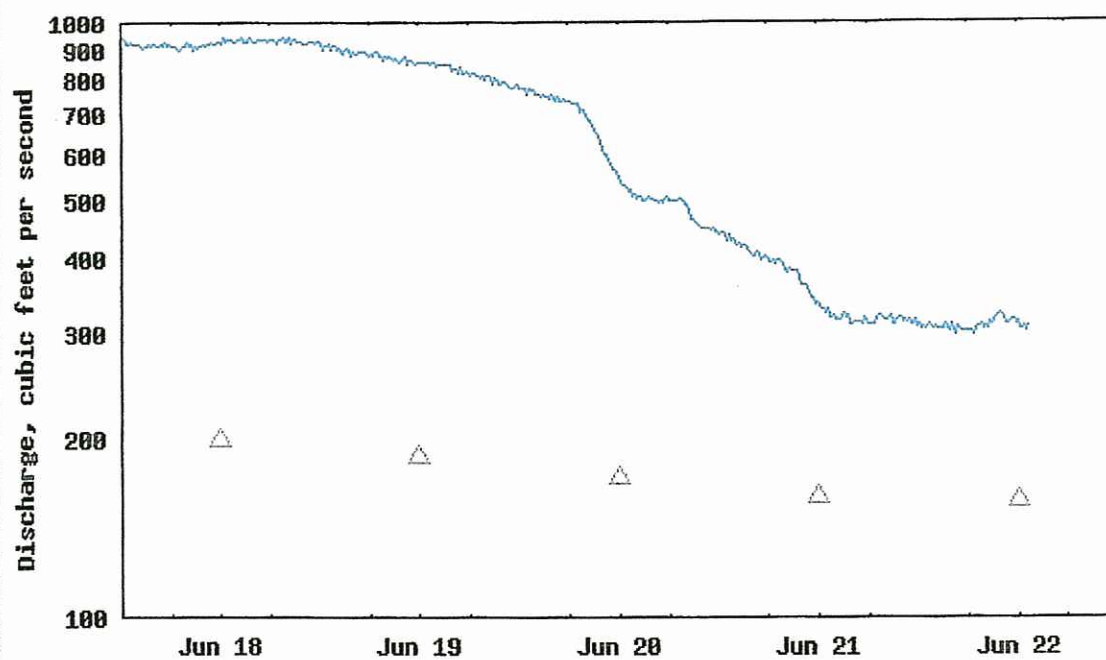


USGS 13152500 MALAD RIVER NR GOODING ID





USGS 13152500 MALAD RIVER NR GOODING ID



FEDERAL ENERGY REGULATORY COMMISSION
Washington, D.C. 20426

OFFICE OF ENERGY PROJECTS

Project No. 4055-044 -- Idaho
Ravenscroft Ranch Project
Vernon F. Ravenscroft

Mr. Allan Ravenscroft
1331 Shoestring Road
Bliss, ID 83314

May 31, 2007

Subject: Annual bypass minimum flow report for 2006

Dear Mr. Ravenscroft:

We received your January 29, 2007 annual bypass minimum flow report for 2006, filed in response to our September 12, 2000 letter, in which we requested annual flow reports from the Ravenscroft Ranch Project. The reports are to be filed by January 31 following the year covered in each report, and each report is to include the current stage/discharge table for the recording streamflow gage at the project.

The project's minimum flow requirements, stipulated in the Commission's July 23, 1996 Order Amending Exemption Article 2 Terms and Conditions, are 5 cubic feet per second (cfs) July 1 through April 15, and 80 cfs April 16 through June 30.¹ The flows are monitored using a river stage recorder and stage/discharge table.

2006 Annual Bypass Minimum Flow Report

In your January 29, 2007 annual report, you included monthly flow records from the recording gage for 2006, annotated to show the required minimum flow and the days on which the project was not operated, and describing your efforts to maintain minimum flows and accurate steamflow gaging. You also included notes on changes in operation, and staff gage readings for periods when the recording gage was not available.

Your annual report included copies of two reports you previously filed with the Commission, dated January 24, 2006 and June 26, 2006, which provided some of the information required for the 2006 annual minimum flow report. Those two reports informed us of periods during which the recording bypass gage had to be removed due to flooding from January 1 through January 19, 2006, and again from April 7 through June 22, 2006. During those periods, when the recording gage was not in operation, you took staff gage readings to ensure flow compliance, and, for the period of April 9 through June

¹ 76 FERC ¶ 62,052 (1996).

22, 2006, you obtained copies of flow records from the U.S. Geological Survey (USGS) gage less than a mile downstream from your project. You included copies of the USGS records in your June 26, 2006 report. Also, you discussed your ongoing efforts to control beaver, which have caused flow and streamflow gaging problems in the past. You wrote that you again hired trappers in 2006, and that 8 beaver were removed from the project area, which should minimize beaver-related problems in 2007.

Your annual report also included copies of the project's most recent stage/discharge rating chart, dated September 11, 2006. You previously filed a copy of the chart with us in a September 15, 2006 report.

Discussion and Conclusions

In a letter dated March 13, 2006, we responded to your January 24, 2006 report, acknowledging your efforts to maintain and record your compliance with the project's flow requirements during the high-water period of early and mid-January. In an October 11, 2006 letter, we acknowledged your June 26, 2006 report, and your original filing of the September 2006 stage/discharge rating chart.

Our review of the information included in your January 29, 2007 annual report indicates that you operated the Ravenscroft Ranch Project during 2006 in compliance with the project's minimum flow requirements.

We appreciate your work to maintain and record the required minimum flows at the project, and your efforts to keep us informed of flow compliance and flow monitoring issues at the project. Please note that your next annual bypass minimum flow report, for the year 2007, will be due January 31, 2008, and will need to include a copy of the current stage/discharge table for the recording gage at the project.

Thank you again for your efforts in these areas. If you have any questions, please contact me at (202) 502-6129.

Sincerely,



B. Peter Yarrington
Fisheries Biologist
Division of Hydropower Administration
and Compliance

January 22, 2008

Project # 4055-036-Idaho
Ravenscroft Ranch Project
2007 River Flow Report

The Secretary
FERC
Mail Code PJ-12.3
888 First St., NE
Washington, D.C. 20426

Dear Mr. Yarrington:

Enclosed are the 2007 river flow charts. With out all the high water 2007 was a much smoother year. As noted in my email to you May 16, 2007 in re-plotting the readings with the new cable for the water flow gauge recorder, I found it to be off by one grid square. I have raised the compliance line one square for 2007. In plotting the points this year, I always wondered if there was a difference due to expansion of the cable in higher temperatures. At least this year with the new cable and the temperatures we had, I found this to be the case. I have raised the compliance line one more grid square from July 22, 2007 through September 15, 2007. With this correction, I believe the data for 2007 to be an accurate picture of the actual flows for 2007.

January and February: I see no problems with these months.

March and April : On March 3rd there was a very fast slight dip below the compliance line that was too fast for the equipment to react to that we were on line. The same situation occurred in the night between April 18 and 19th. Both were for very short periods and would be with in any margin of error in gauging the river and plotting it.

May and June: I see no problems in these two months.

July, August and September; as I talked about in my opening in plotting the points I found a change during the hottest time of the year. I have raised the compliance line one grid square from July 22 through September 15 and then dropped it back. I see no compliance problems in these months.

I was gone from August 29 through September 4. I had a neighbor watching the plant and recording the flows during this time. I had shown him how to replace the graph paper and asked him to do so on Sept 1st. It did not get done. I replaced it on Sept 5 when I got back. I have included on the graph the river flows he recorded in our records.

October, November and December: The plant was down the majority of the time with no water in the river and I see no problems.

Up date on Beaver control:

To summarize our beaver control efforts over these last three years: we killed 10 in 2005: trapped out 8 in 2006 and trapped another 4 in 2007. The declining numbers and the over all lack of problems this last year indicate to me we are completely on top of the problem. I will continue to bring in the trappers each November.

I believe this report to be a complete and accurate accounting for our actions in 2007. If there any questions or concerns please let me know

Sincerely,

A handwritten signature in cursive script that reads "Allan Ravenscroft".

Allan Ravenscroft

STATION RAVEN

STAGE-DISCHARGE TABLE
LOCATION ON RAVENSCROFT HYDRO

09/11/06

DATE	GAGE HT	Q	CORR.	DATE	GAGE HT	Q	CORR.

G.H. FT	DISCHARGE CFS								STATION #51	
	0	0.01	0.02	0.03	0.04	0.05	0.06	0.07	0.08	0.09
0.6	4.85	4.99	5.16	5.34	5.55	5.79	6.05	6.33	6.64	6.97
0.7	7.33	7.71	8.11	8.54	8.99	9.47	9.97	10.49	11.04	11.61
0.8	12.21	12.83	13.47	14.14	14.83	15.55	16.29	17.05	17.84	18.65
0.9	19.48	20.34	21.23	22.14	23.07	24.02	25.01	26.01	27.04	28.09
1	29.17	30.27	31.39	32.54	33.71	34.91	36.13	37.37	38.64	39.93
1.1	41.25	42.59	43.95	45.34	46.75	48.19	49.65	51.13	52.64	54.17
1.2	55.73	57.31	58.92	60.54	62.20	63.87	65.57	67.30	69.05	70.82
1.3	72.61	74.44	76.28	78.15	80.04	81.96	83.90	85.88	87.85	89.86
1.4	91.90	93.96	96.05	98.15	100.29	102.44	104.62	106.83	109.06	111.31
1.5	113.59	115.89	118.21	120.56	122.94	125.33	127.75	130.20	132.67	135.16
1.6	137.68	140.22	142.78	145.37	147.98	150.62	153.28	155.97	158.68	161.41
1.7	164.17	166.95	169.75	172.58	175.43	178.31	181.21	184.14	187.09	190.06
1.8	193.06	196.08	199.12	202.19	205.29	208.40	211.54	214.71	217.90	221.11
1.9	224.35	227.61	230.90	234.21	237.54	240.90	244.28	247.68	251.11	254.57
2	255.04	261.55	265.07	268.62	272.19	275.79	279.41	283.06	286.73	290.42
2.1	294.14	297.88	301.65	305.44	309.25	313.09	316.95	320.84	324.74	328.68
2.2	332.64	336.82	340.62	344.85	348.71	352.79	356.89	361.01	365.16	369.34
2.3	373.53	377.76	382.00	386.27	390.57	394.88	399.23	403.59	407.98	412.40
2.4	416.83	421.30	425.78	430.29	434.83	439.38	443.97	448.57	453.20	457.86
2.5	462.53	467.24	471.96	476.71	481.49	486.29	491.11	495.95	500.82	505.72

Jan 2007

All off

1-2 3:00 - 18:00

1-9 10:00 To 8:30 1-10

1-12 10:11 To 1-23 8:35

1-24 04:00 To 1-25 8:00

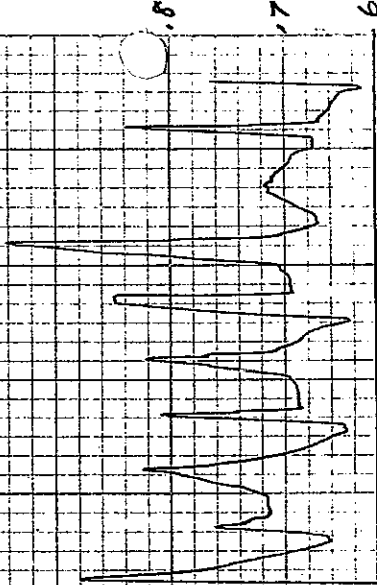
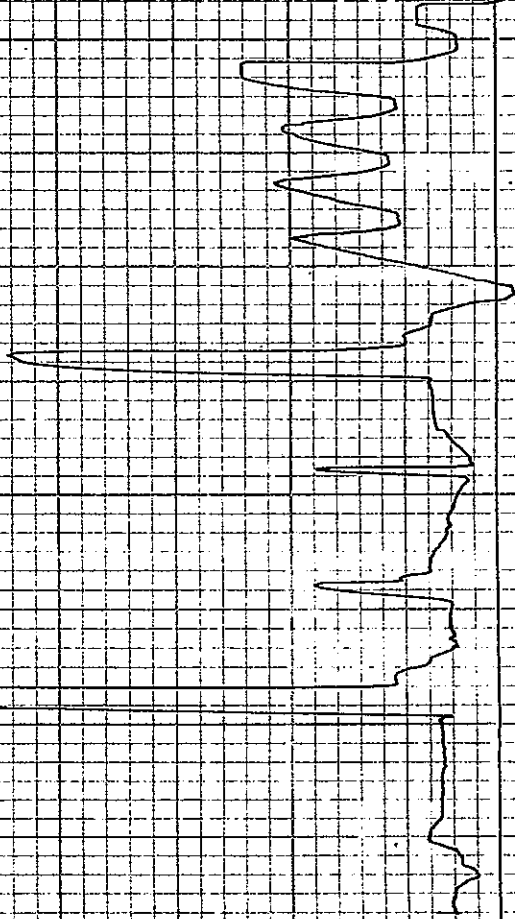
1-28 24:00 To 4:00 1-27

1-28 06:00 To 23:15

1-29 18:00 To 6:30 1-30

Time h:m

4 5 6 8 9 12 16 20 21 22 23 24 25



Approx Compliance Lim

2-1-07 13:00

February 2007

All off

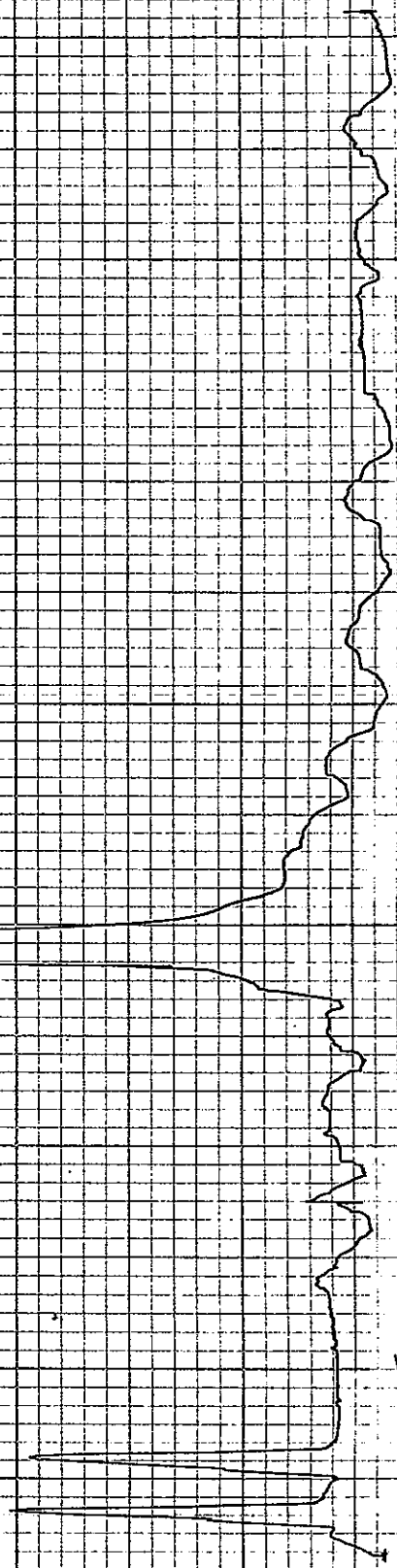
2-1 08:00 To 22:00
2-26 6:00 To 8:30

Time line

4 8 12 16 17 18 20 24 28 30

Ice

Approx Camp / Ranch history



March 2007

ALL OFF

3-24-03:00 TO 10:10

3-27-21:00 TO 7:30 PM

3-31 21:00

Time Line

14 16 18 20 22 24 26 28 30 31

Ice

Applied Comp Transfer Line

168

3-1-07

Ice & Snow 13:30

4-1-07
12:02

April 2007

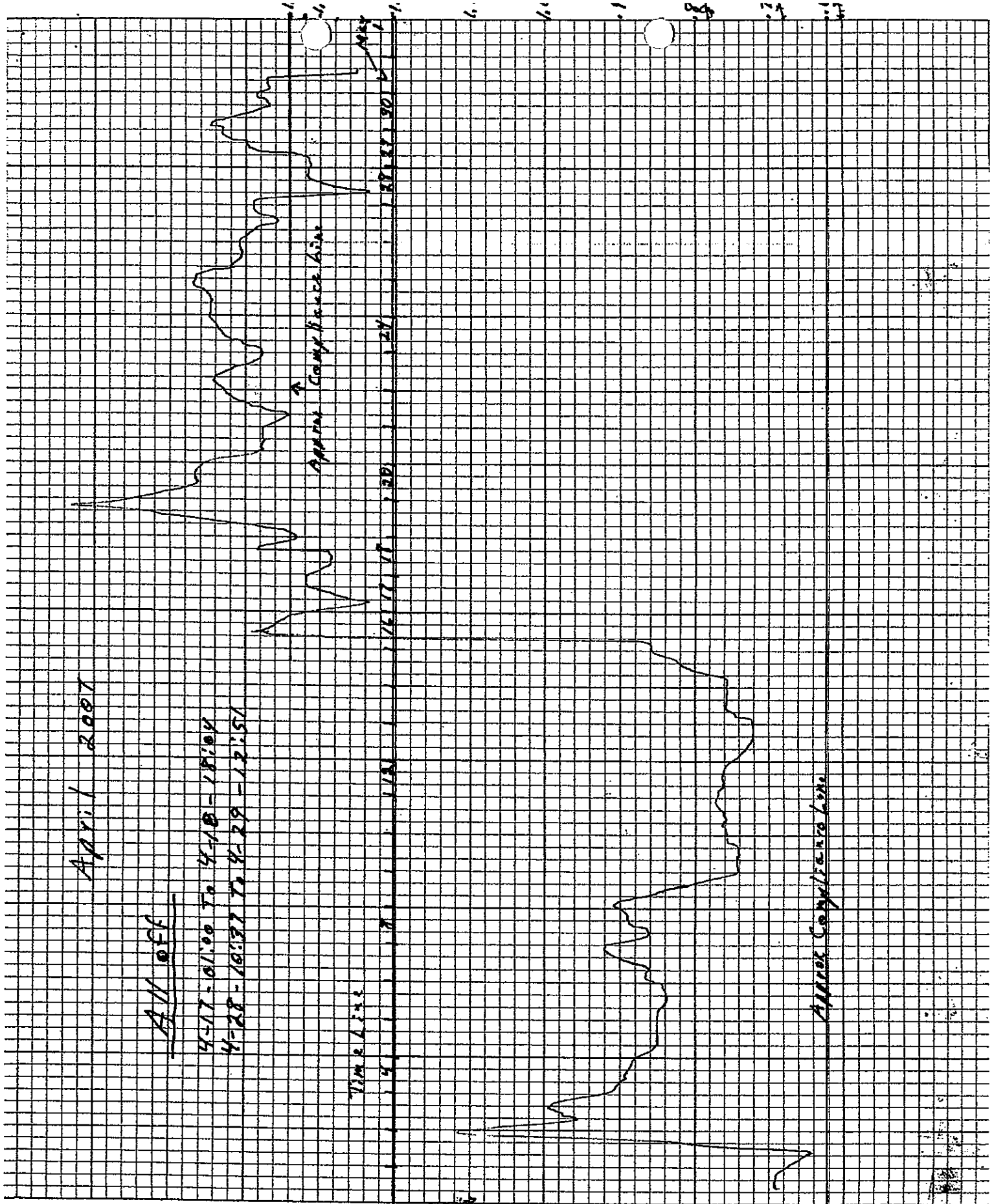
All off

4-17-07 00:00 To 4-18-07 18:00
4-28-07 10:37 To 4-29-07 12:51

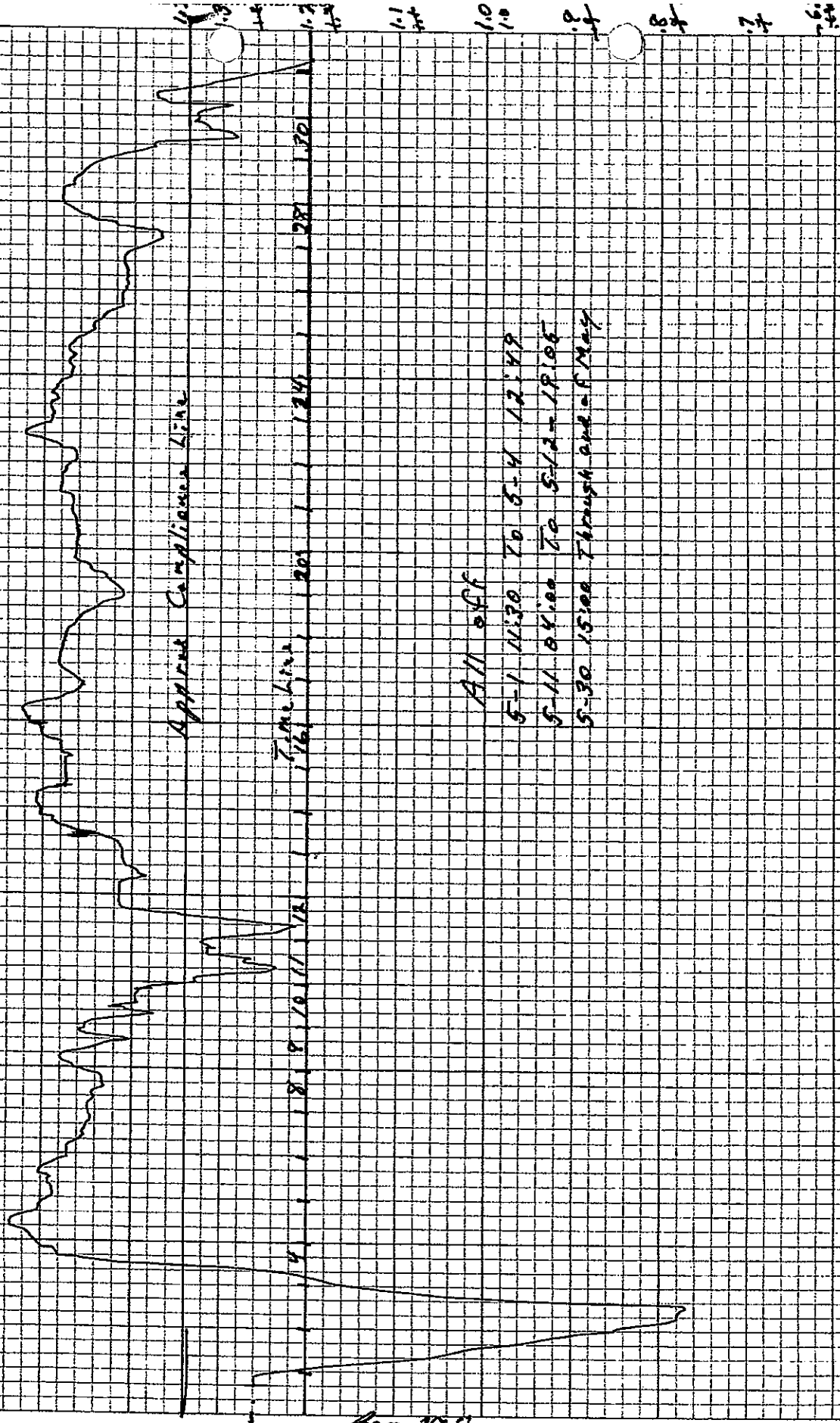
Time Lapse

Approx Compliance Limit

Approx Compliance Limit



May 2007

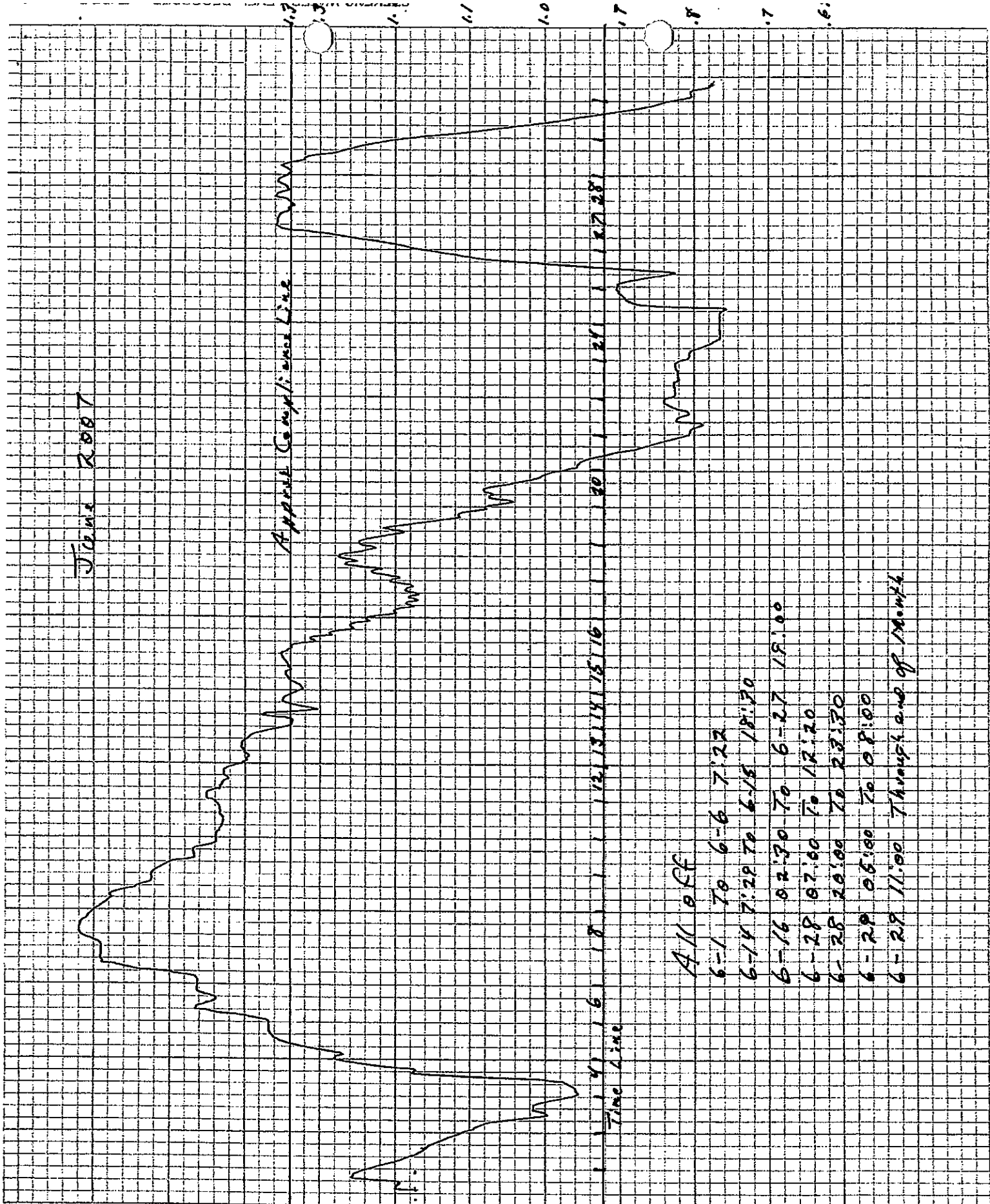


All off
 5-1 11:30 To 5-4 12:49
 5-11 04:00 To 5-12 19:05
 5-30 15:00 Through end of May

6-1-07

18:00

17:00



June 2007

July 2007

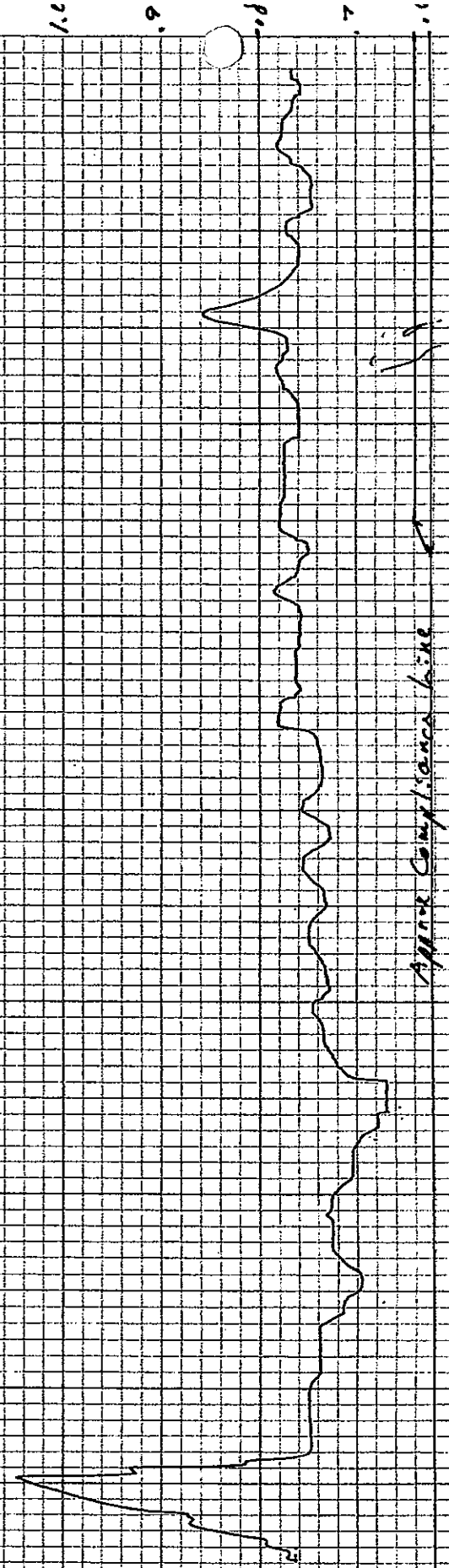
AK OFI

7-1 To 7-3 13:00

7-18 7-19 36 To 7-20 8:15

Time Line

4 8 12 16 20 24 28



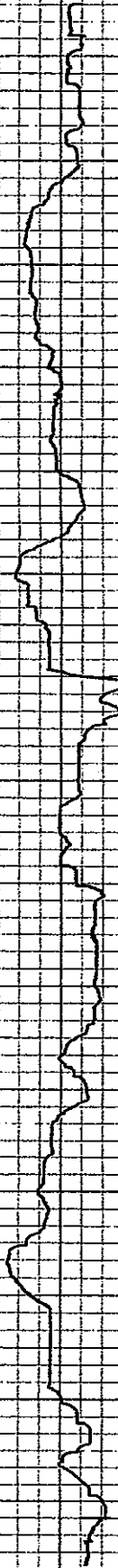
August 2007

Notes

8-1P - 18:15 To 8-21 - 7:26
8-21 17:41 To 8-23 7:45

Time Line

14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31



Approx Compliance Line

6

Time Readings

9-1 74
 9-2 70
 9-3 72
 9-4 76

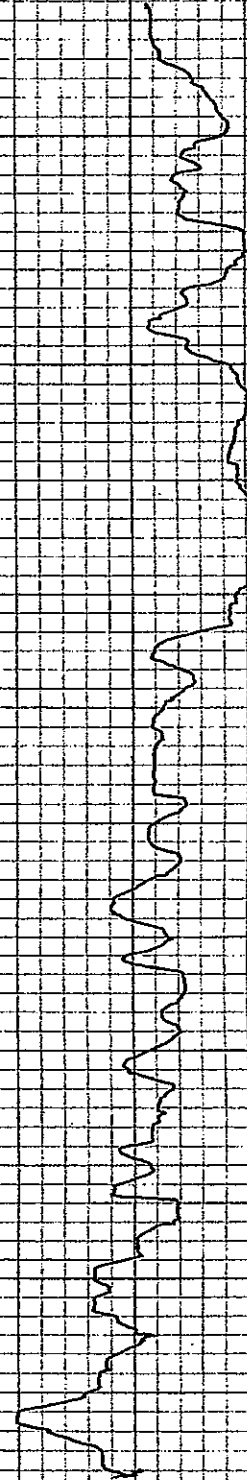
September 2007

All off

9-1 70 9-3-8192

Time Line

4 8 12 16 20 24 28



Approx Compliance Line

October 2007

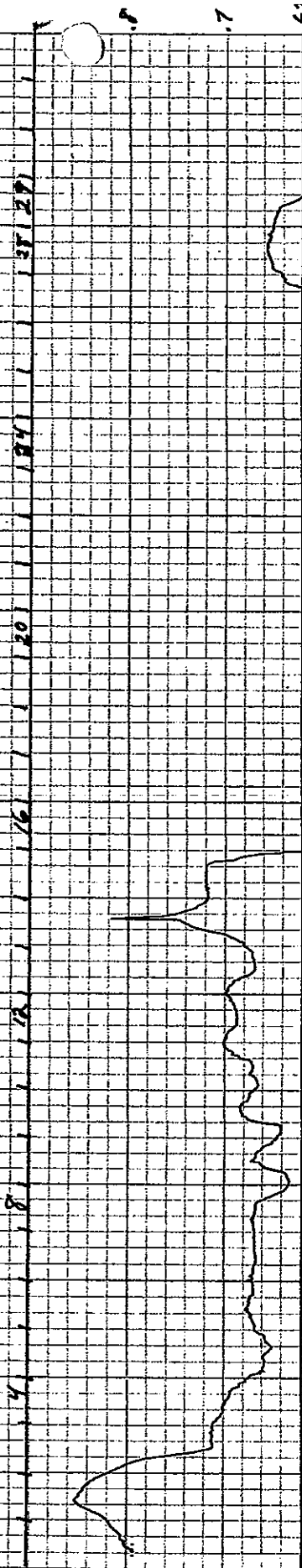
All off

10-9 15:20 - 16:24

10-16 03:00 To 10-29 18:01

10-29 17:30 past of Month

Time Line



Approx. Comp. Base Line

DOEE All Month - No water

Time Lined

Approved Compliance 2:48

December 2007

4/11/08
 12-1 70 12-3 4/11/08
 12-4 0 12-6 70 12-4 14 53
 12-6 0 12-7 70 12-7 12 30
 12-8 0 12-9 70 12-8 12 30

Tide Line

12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31

