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Transcript of proceedings Volume IV, Pages 637-864

Wayne C. Lenhart
Court Reporter

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IN THE DISTRICT COURT OF THE UNITED STATES
FOR THE EASTERN DISTRICT OF WASHINGTON

COLVILLE CONFEDERATED TRIBES,)
Plaintiff,)
v.)
BOYD WALTON, JR., et ux., et al.,)
STATE OF WASHINGTON, Interv. Deft.,)
Defendants)

No. 3421

Combined with

UNITED STATES OF AMERICA,)
Plaintiff,)
v.)
WILLIAM BOYD WALTON, et al.,)
Defendants.)

No. 3831

FILED IN THE
U. S. DISTRICT COURT
Eastern District of Washington

FEB 21 1978

J. R. FALLOQUIST, Clerk
AG Deputy

TRANSCRIPT OF PROCEEDINGS

VOLUME IV

Pages 637-864, inc.

February 10, 1978

Spokane Calendar

February 7, 1978

Neill, J.

214

1 Morning Session

2 February 10, 1978 9:00 a.m.

3 THE COURT: Good morning.

4 COUNSEL IN UNISON: Good morning, Your Honor.

5 MR. PRICE: Your Honor, before we commence,
6 I would like to make a motion.

7 THE COURT: Step forward.

8 MR. PRICE: I hope the Court and Mr. Veeder
9 will extend to me the same courtesy that we tried to
10 extend to him yesterday. This is not in a retort to
11 Mr. Veeder's comments at the beginning of Court
12 yesterday, but rather what I think a very pertinent and
13 legitimate point for this Court to consider while all
14 parties are still here before we depart.

15 The lengthy testimony and the dearth of exhibits
16 yesterday that we got into, pinpointed and focused for
17 me a problem that we are facing in the Court and I
18 think brings it sharply into focus that we have been
19 verging on and are now exceeding this Court's
20 jurisdiction.

21 On behalf of the Waltons I filed a motion some
22 time ago which is before this Court seeking a dismissal
23 of this action. This action is two-pronged -- this
24 motion is two-pronged, Your Honor, and it is, as you
25 know, based on United States v. Powers and Alexander v.

1 United States. In Powers the highest court of this
2 land in affirming the 9th Circuit, determined that after
3 a lengthy, protracted litigation that the case was to
4 be dismissed because the necessary parties were not
5 before that court -- one of the reasons.

6 And I think, secondly, that case, as well as the
7 Alexander case and other cases have dismissed similar
8 types of actions based on the fact that until the
9 Secretary of Interior acts, the court cannot act to
10 try and allocate or adjudicate water which has been
11 dictated by congressional policy and is a policy
12 matter, not a judicial matter.

13 It seems to me that we are heading in the very
14 same direction and we are heading for the same
15 disastrous result, to go to a lot of work and have the
16 Court tell us exactly what it told us in Powers,
17 because I believe this case is on all fours, as the
18 Powers case.

19 The late Honorable Judge Powell, in one of the
20 early pre-trial conferences, at the initiation of this
21 litigation, commented that he was concerned that the
22 necessary parties would have to be before this Court
23 before he would try it, and, specifically, he made
24 reference to the allottees and raised the question,
25 who is representing the allottees.

1 I ask this Court this morning, who is representing
2 the allottees? I expect Mr. Sweeney to respond to
3 that, but I contend that there is no representation of
4 the allottees, Your Honor. The Alexander case, the
5 Powers case, and the other cases that we have cited
6 have stated quite boldly and quite forcefully that the
7 Tribe may not litigate and may not take a water right
8 in derogation of an allottee's water right, nor may an
9 allottee take a water right in derogation of a Tribal
10 water right, and yet what we have done, what we are
11 seeing happening in this case, is the Tribe putting
12 together a litigation package -- I use those terms
13 carefully -- by leasing allotments. Some of the
14 leases -- that is going to go into evidence -- ran out
15 in 1977, some have been continued, and irrespective of
16 whether they are continued for five years or ten years
17 is not the point. The point is, can this Court
18 legitimately consider adjudicating a water right to a
19 Tribe that removes water from one allotment, attempts
20 to deliver it to another allotment, when that is
21 totally in derogation of the appurtenance of that
22 water right to that allotment. What happens at the
23 end of that lease period or if the allottees terminate
24 the lease because of the very nature of taking that
25 water? These leases give no right to the lessee to

1 deliver water away from those allotments. They are
2 pasture and farming leases, not delivery of water
3 leases.

4 There are a lot of people in 892 and 901 and 903
5 who have interest and will have interest in this case
6 in the future. If this Court is to try and adjudicate
7 a water right to the Tribe now, it will have no bearing;
8 it will be a futile action, because it cannot be in
9 derogation of those allottees water interests, and the
10 Supreme Court has indicated that. There is no dispute
11 about that.

12 The other part of my argument is the Section 7,
13 the powers of the Secretary of Interior to first
14 provide rules and regulations for the equal distribu-
15 tion of water on this reservation.

16 If this Court is to consider a Tribal Water Code
17 that, in effect, gives the Tribe the right to determine
18 what water will go where and to whom, that is directly
19 in derogation of the allottees' interest which the
20 highest court in this land has said cannot be done.

21 Is it not an act in futility to sit here and
22 concern ourselves about a water code that has not been
23 approved by the Secretary of Interior for that very
24 reason, or that our courts have said can't be considered
25 until the Secretary of Interior acts.

1 I am suggesting, Your Honor, that this litigation
2 package has taken us far beyond the scope of what this
3 Court can do, of what the Tribe can do. The Tribe can
4 think up all sorts of purposes for water that can dry
5 up not only No Name Creek basin, but Omak Creek and any
6 other creek they want to put their mind to, but it
7 isn't the Tribe's right that we are litigating. We are
8 litigating water appurtenant to lands, be they Tribal
9 property, be they allotments, and whether allotments
10 are owned by Indians in trust or successors in fee.

11 I think we have been stampeded, Your Honor, into
12 a situation, artificially created crisis situation,
13 that is pushing this Court into deciding questions that
14 cannot be decided without the necessary parties, and
15 that cannot be decided until the Secretary of Interior
16 acts.

17 I suggest that the Tribe has chosen to litigate
18 with the United States government and they have chosen
19 Waltons -- and I don't say this in an insulting manner--
20 as the whipping boy. They had to choose somebody, Your
21 Honor. And I cite in my brief, Your Honor, at page 30,
22 Lone Wolf v. Hitchcock, where the Court specifically --
23 and I would like to quote that very briefly:

24 "But in none of these cases was there
25 involved a controversy between the Indians

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and the Government respecting the power of Congress to administer the property of the Indians.

"The questions considered and the cases referred to which either directly or indirectly have relation to the nature of the property rights of the Indians concern the character and extent of such rights as respect the states or individuals.

"Be that as it may, the propriety or justice of their (United States government) action to the Indians with respect to their lands is a question of governmental policy and is not a matter open to discussion in a controversy between third parties neither of whom derives title from the Indians."

Lone Wolf v. Hitchcock further goes on to state that the Tribe, individual Indian Tribe and the United States government may not litigate their problems through a third party, to wit, Wolf.

I suggest, Your Honor, that this would be a good time to confront this question before we continue what I consider to be a backslide into a morass of material that is not going to assist this Court.

Thank you for your consideration.

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THE COURT: Well, Counsel, before I ask for responses, assuming that everything in the position you take is all true, and I think there may be some merit to it, I'm not sure that that eliminates all of the issues that are inherent in these consolidated cases.

Basically, it seems to me the problem that has engendered these two cases is the problem of whether or not water can be allocated by the State of Washington, which water is generated from within their reservation, or whether somebody, whether it is the Tribe or the Secretary of the Interior which is a separate problem, but can the Tribe's potential right to water be deprived by the State giving a water right to a non-Indian on previously allotted ground. It seems to me, basically, that is what this case is about.

MR. PRICE: Your Honor, we get back to the same question though, the Tribe's defining what are the Tribe's rights. Does the Tribe have the right to divert water and take it from one allotment and use it for purposes that are not appurtenant to their land?

THE COURT: Maybe I don't have to decide that issue, but decide the basic issue of who has the right to allocate what might be Indian water.

1 MR. PRICE: I guess my only response to that,
2 Your Honor, is that I consider that one of the very
3 least pertinent questions in that the Waltons are
4 asserting their water right as a successor to an
5 Indian allottee. We will argue because of the State
6 water right also, but we are not depending on that as
7 the main thrust of our argument.

8 The State doesn't want to be in this action. They
9 are willing to get out, and I don't think this case
10 really revolves around the fact that the State may or
11 may not issue any water permits. That has nothing to
12 do with what the Tribe is trying to accomplish in
13 litigating, through Walton, against the United States
14 government. They are trying to litigate their right
15 to have the authority to adjudicate water and to
16 allocate water on that reservation. If they want to
17 do that, let them bring a mandamus against the
18 Secretary of Interior and force him to bring this -- to
19 eliminate this void. That's where it should be; that's
20 how it should be brought, not through an intermediate
21 third party. The State water permits just don't have
22 any relevance in that regard. Once he acts to fill
23 that void and if the Tribe is satisfied, they can seek
24 to enforce that, and if they are not satisfied, they
25 can seek to have it overturned or seek some compensation

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as a result of it.

THE COURT: Well, Counsel, how do you explain away, then, the 9th Circuit Ahtanum case which I don't think has been overruled, at least I'm not aware of any overruling of it.

MR. VEEDER: No.

MR. PRICE: I don't think it has been overruled either, Your Honor, and as third class defendants in that case being the same as the Waltons, being successors to allottees on the reservation, it's my understanding they were allowed to participate with the Indians in water that was allocated to the Indians in that adjudication.

THE COURT: But one of the issues in that case, and I think it's still the law, I thought it was an issue in this case, is that they said you first have to determine there is so-called surplus or excess waters. After you have taken care of the treaty rights of the Tribes, then there is a right to allocate the surplus water, and as I recall, in that case they let the State do it. I don't remember that aspect of it too well.

MR. PRICE: But, Your Honor, what I'm suggesting is that the Tribe has put together a litigation package that creates an artificial water

1 shortage that doesn't even get us to the point of
2 having to worry about whether there are surplus waters.
3 We won't ever know that because the Tribe is using
4 waters beyond the scope which they themselves can use.
5 It is a potential derogation of the individual
6 allottee's interest, and if you can't get past those
7 two points, you never get to the question of whether
8 there are surplus waters or not.

9 THE COURT: Well, I must have missed the
10 point or the first part of that last statement. You
11 say they are doing something in excess of their rights?

12 MR. PRICE: Yes, Your Honor. I'm contending
13 that here we are being presented with evidence that
14 the Tribe is pumping water from their own land. They
15 are pumping water off of Allotment 892 which is not
16 Tribal property, which is an individual ownership, an
17 individual Indian ownership. There is nothing that
18 gives the Tribe the right to exceed their own right to
19 do what they can with the water that is appurtenant to
20 their own tract by combining it with other tracts.

21 THE COURT: Well, but isn't that the allottee's
22 right? I don't hear an allottee in here objecting to
23 the Tribe's use of water on his land.

24 MR. PRICE: But that is the point. I think
25 that's the point I'm trying to make, Your Honor. This

1 is pursuant to a lease arrangement, some of which
2 run out this year, some of which run out next year,
3 some of which run out in five years. You would be
4 attempting to adjudicate the right of the Tribe to
5 use an allottee's water which that allottee in five
6 years when the lease runs out, says we don't want --
7 we don't -- Allotment 892, if you adjudicate the
8 Tribe the right to use that water and run it down to
9 901, subjugates Allotment 892 to the uses of 901.

10 Now, Powers says you can't derogate one allottee's
11 water rights in favor of another.

12 THE COURT: Well, assuming that's true, how
13 do you have standing to raise the question whether
14 that allottee -- He may be perfectly happy with this
15 arrangement.

16 MR. PRICE: I think I have standing to raise
17 that question, Your Honor, because it is an attempt to
18 artificially create a situation that gives the Tribe
19 greater rights than they would have individually and
20 that they have as an individual allottee. I don't
21 think they can combine these rights that are appurtenant
22 to the land and start trucking the water to various
23 other allotments or properties around the reservation.
24 I think by doing this they have put themselves in a
25 position of creating -- being able to argue more of a

1 water right than the courts say that they are entitled
2 to as an appurtenance for irrigable acres appurtenant
3 to the land.

4 THE COURT: Well, that is an interesting
5 point. Does anybody want to respond to it?

6 MR. PRICE: Thank you, Your Honor.

7 MR. VEEDER: Your Honor, of course, he has
8 raised a point that we all knew was here. May I just
9 briefly respond to it.

10 I tried Ahtanum. I tried, I think, 134 days of
11 trial of the thing, so I'm quite familiar with the
12 situation, and the situation is what Your Honor raised.
13 There certainly is standing in the court. The day
14 may come in Ahtanum when they allow what we call a
15 lawsuit inter sese to see what each man has out of a
16 block of water, but at the time, the presiding judge
17 when this came forward and we have what we call the
18 third party defendants and I was in the Department of
19 Justice in those years, and we never got to the issue
20 of the inter sese rights because the Court said -- the
21 issue was raised -- and we simply said all we want now
22 is to determine there is a block of water and if these
23 people are unhappy as to the division of water, then we
24 would have a trial inter sese. In other words, it is
25 just exactly like an estate bringing a lawsuit against

1 somebody who owed a debt. Now, how much each of the
2 heirs would receive is a matter to be determined
3 independent of the right and the standing in the court.

4 I would like to brief this matter for Your Honor.
5 I would like to get at it and have the indispensable
6 part in that issue resolved, but I do submit, Your
7 Honor, that because time is short we would like to
8 proceed with the facts in this matter and my
9 familiarity with Ahtanum is as good as anyone's because
10 we went all the way through it and that issue was there.
11 That issue has never come up, though, in the twenty
12 years since that decree was entered, and I don't see
13 how it can come up here in regard to the length of the
14 period of the leases here, Your Honor. I believe 901
15 and 903 are under ten-year leases and I assume that is
16 going to take place in the others, but I would like to
17 progress with the lawsuit unless Mr. Sweeney has got
18 something to say.

19 MR. SWEENEY: Mr. Burchette will respond for
20 the Government, Your Honor.

21 THE COURT: All right. Mr. Burchette.

22 MR. BURCHETTE: Your Honor, if I understand
23 Mr. Price correctly, he saying that the allottees are
24 indispensable parties to this action. The United States
25 being involved in this lawsuit, we are representing the

1 Tribe and its members including the allottees. We have
2 that responsibility. We are the trustee, and I think
3 the Supreme Court, although I hate to cite this case,
4 United States v. Aiken, I think acknowledged the fact
5 that we had a trust responsibility to the Indians in
6 their water rights.

7 So, what I'm saying is that the Secretary of the
8 Interior under his powers of 25 U.S.C. 381 we have the
9 responsibility to allocate these waters. We are
10 involved in this lawsuit, therefore we are representing
11 the allottees. They are being represented by the
12 United States today. We would contend that there is
13 no indispensability question.

14 THE COURT: Counsel, as long as you are here,
15 lurking in the background of this whole case is the
16 problem of why the Secretary has not exercised what
17 apparently is a statutory duty to do something about
18 the water rights on the reservation. So far, the
19 testimony in this case indicates the Tribe said,
20 somebody has got to fill this void, so we adopt our own
21 water code and they had to go ahead because somebody
22 had to do something. What is really happening there,
23 if you know?

24 MR. BURCHETTE: Well, that's a good question,
25 Your Honor.

1 If you're asking me whether or not the United
2 States would say that the Tribe does not have the
3 sovereign authority to promulgate its own water code,
4 I think the Secretary of the Interior would say that,
5 based on the organic instruments of the Colville Tribe,
6 that the Secretary could not preclude the Tribe from
7 issuing its own water rights code. However, as a
8 result of his authority under 25 U.S.C. 381 and as a
9 result of his trust responsibility, he certainly does
10 have an interest in the water rights on the
11 reservation, and, as you probably know, the Secretary
12 has at one time promulgated some regulations which
13 have been commented on, which have since been
14 withdrawn, but that is not to say that he is not
15 continuing to work to draft regulations which would
16 manage and control the waters on particular Indian
17 reservations in the West.

18 So, what I'm saying is that the Secretary would
19 say that if he has not promulgated the regulations, he
20 in essence, at that point would not be pre-empting the
21 Tribe from passing a code or regulation, but in the
22 event the Secretary were to promulgate his regulations,
23 I think the very nature of that promulgation would be
24 to pre-empt the field to whatever the Secretary decided
25 to regulate, and I think Congress has certainly spoken

1 to that in the passage of 25 U.S.C. 381. Now, that's
2 not the Government's comment, per se, on the Colville
3 Code, Your Honor. That's just, I think, a general
4 statement as to where the Secretary of the Interior is
5 today with respect to his powers under 25 U.S.C. 381.

6 MR. VEEDER: One last thought, Your Honor,
7 on the parties. I understand the Yakima -- well, I
8 know the Yakimas have brought their lawsuit over there
9 and I think it is before Your Honor, and, once again,
10 I represented the United States when that decree was
11 entered in the Yakima River, and I was thinking while
12 Mr. Price was speaking that if Your Honor was to call
13 in every single individual in that lawsuit and say
14 Sunnyside, and Wapato, and Kittitas, and --

15 THE COURT: Counsel, I think that is
16 happening. I'm informed by the Clerk's office that
17 the Yakima Tribe has asked that 5,000 summons be
18 issued.

19 MR. VEEDER: Well, I'm not just sure what it
20 is going to take, Your Honor, but it's quite a thought
21 when you -- I have been in those cases. I have been in
22 similar cases in Colorado where somebody would get up
23 and say this is an indispensable party, and we say
24 it's a little difficult. We have got the City and
25 County of Denver; we've got Colorado Springs; we've got

1 the entire western slope of Colorado. Do you really
2 mean you want everybody in there? I do think there
3 can be representation.

4 Well, I'll get off this subject so we may proceed.

5 THE COURT: Well, you raise some interesting
6 and maybe some valid points, but I can't resolve it
7 today and we just as well get all of the evidence we
8 can in the case today, because we know there is going
9 to be a recess, although I think that during that
10 period of recess of the trial I'm going to ask counsel
11 to submit any further briefs they want on the parties
12 in question, and I will rule on it before we come back
13 for the rest of the trial.

14 MR. VEEDER: Thank you.

15 THE COURT: He has raised some interesting
16 questions. Mr. Burchette?

17 MR. BURCHETTE: Excuse me, go ahead.

18 MR. MACK: Your Honor, I was wondering if the
19 State could just be heard.

20 THE COURT: Yes.

21 MR. MACK: Realizing you are not going to
22 rule on it.

23 THE COURT: Go ahead. Anything you can do to
24 educate me might be helpful.

25 MR. MACK: Well, I'm not sure. You can judge

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that after I finish, I suppose.

If I understand the motion by Mr. Price, at least part of it I would say that the State is in agreement with. That has to do with the rights of all individuals and entities which may be affected by an order and decree requested from this Court by various of the parties.

I think Your Honor is totally aware and I won't go into any great detail here of the State's concern that what is asked for in this case by some of the parties is a determination by this Court that would affect the rights to the use of water on the Colville reservation and not only of the types of parties represented here today, but of other types of parties, individuals, who are not represented here today. They may have heard of this case by newspaper but they certainly haven't been notified of it in any legal sense. The concern comes because we are dealing partly with both surface and ground waters which is an unusual matter.

The State has not contested in this case, although it could, that the question of the reserved rights goes only to the surface waters. We have not questioned that it includes groundwaters. And once groundwaters are included, of course, the question of the area that the Court should look at with regard to the evidence

1 presented is a crucial one. We have watershed
2 boundaries and some parties are asking that determina-
3 tion be made as to the extent of reserved rights on
4 the reservation, for the entire reservation, not just
5 for this area, and it has always been the State's
6 position that if the court considers all of the claims
7 made in this and the claims for relief in this action,
8 that the legitimate thing to do may be just what the
9 Yakimas have, in fact, done which is to initiate in
10 effect with Your Honor a general water rights
11 adjudication.

12 Your Honor is absolutely correct that the Yakima
13 Tribe intends to serve 5,000 people, whether they have
14 done it yet or not is another question. And I remind
15 Your Honor in respect to this of the State's motion to
16 strike an issue, I believe number twelve, and realize
17 it has not been ruled on yet and may not be ruled on
18 until the end of the trial, but this relates, I think,
19 to what Mr. Price has said.

20 I would just finish with this: Mr. Price's motion
21 raises the question of whether all of the possible
22 claimants to existing rights in at least the No Name
23 Creek basin or watershed or valley or whatever you
24 want to call it, are fully represented here. In the
25 State's framework of law, the one we look from -- I

1 guess we have blinders on to that extent -- the
2 question is whether -- not entirely-- the question
3 whether the State had the authority to issue water
4 rights depends not simply on -- Let me put it this way.

5 The State always issues its water rights pursuant
6 to existing rights, and the State has always
7 acknowledged the existence of reserved rights under
8 the Winters doctrine on the reservation, at least it
9 has through the litigation here. The State has never
10 taken the position that it issues water rights on the
11 reservation contrary to that or that it has issued its
12 right to Mr. Walton contrary to that, and so the
13 question can become, in dry years, how you allocate
14 the rights that would normally exist in normal years.

15 I just bring that up because I think it has some
16 relevance to the question of whether all of the
17 parties are represented, but, generally speaking, the
18 State would join in Mr. Price's motion.

19 THE COURT: Mr. Burchette, do you have a
20 further comment?

21 MR. BURCHETTE: I just wanted to be clear,
22 Your Honor, with respect to briefing this issue, we are
23 only to be briefing the indispensable party issue as
24 far as the allottees are concerned in No Name Creek,
25 901, 903 and 892, those allotments; is that what you

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would request that we do?

THE COURT: Well, that was what I had in mind. Now, maybe I am overlooking something more basic than that.

MR. BURCHETTE: Well, the reason I ask the question, and I don't want to get into something that we don't have to or necessarily want to brief, but we have talked about a lot of different things and a lot of different issues, and Mr. Price in discussing his initial motion has talked about a lot of different things, and I just wanted to be clear in my own mind as to really what you wanted us to focus in on when we prepare a brief for you.

THE COURT: Well, that's what came through to me. Now, Mr. Price, you may think there is something beyond that.

MR. PRICE: Yes, Your Honor, I intended it to be a two-pronged argument, one on the indispensable parties, and, secondly, whether this Court can act without the Secretary of Interior acting which I think is very pertinent.

I think Mr. Burchette was not totally correct in respect to the Secretary of Interior's stance. The Secretary did attempt to promulgate rules and not only withdrew them, but then specifically issued a directive

1 that the Tribes were not to adopt a water code. That
2 goes beyond inaction. That is affirmative action.

3 How is this Court going to resolve trying to
4 adjudicate water on that reservation when Congress has
5 delegated that responsibility to the Secretary of the
6 Interior and the Secretary of the Interior has
7 specifically and affirmatively acted in that regard?

8 I think, again, it is up to the Tribe to bring an
9 action of mandamus against the Secretary of the
10 Interior to get on with it, and until he does we are
11 exercising -- we are committing an exercise in
12 futility because what can the appellate court say
13 except what they have already said in Powers and in
14 U. S. v. Alexander, that until he acts, we can't
15 usurp his authority. That is, I think, a pertinent
16 point for this Court to consider.

17 Now, I'm not attempting to argue that the Court
18 is lessened because it doesn't have jurisdiction in any
19 respect. I'm just stating that we're getting into a
20 Congressional policy-making area where the Supreme
21 Court has said that the court should stay away from it
22 until the Congress carries forth its policy.

23 THE COURT: Well, I think my previous comment
24 was intended to point out at least that it seems to me
25 there are issues in this case which this Court can

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decide without having to get to that problem; I don't know, but --

MR. PRICE: I understand Your Honor's position and I will attempt to focus in more directly on that to try and see if I can't convince Your Honor the other way.

THE COURT: Well, in order to dispose of this so we can get on, since you have made the motion, you are going to have the right to make the opening brief on the two points then.

MR. PRICE: All right.

THE COURT: To which, then, the other parties can respond. We ought to set a time -- Well, we'll do that when we find out whether we are going to recess this case. So, we'll come back to that.

MR. PRICE: Thank you, Your Honor.

THE COURT: Anybody else before we leave this matter?

Let's proceed, then, with the taking of testimony.

MR. VEEDER: Thank you, Your Honor.

THOMAS M. WATSON, called as a witness on behalf of Colville Confederated Tribes, having been previously sworn on oath, was questioned and testified as follows:

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DIRECT EXAMINATION CONTINUED

BY MR. VEEDER:

Q Mr. Watson, would you step to the easel there and turn to Colville Tribes' Exhibit 32-5 and state into the record what is represented by that exhibit, and the source of the data appearing on it, and whether that was prepared by you.

A Colville Exhibit No. 32-5 is a summary of the strip charts taken from the recorders on No Name Creek. Now, the top strip chart begins on January 12, 1977, and extends through November 8, 1977, here.

The point of measurement on No Name Creek is shown on Colville Exhibit No. 10 as measuring device number 9 which is No Name Creek above the Walton north boundary.

This is simply a reproduction, a composite reproduction of all the strip charts collected by the U. S. Geological Survey at that location.

Q What is disclosed in regard to discharge in the stream, or --

MR. SWEENEY: Just a moment. This hasn't been admitted yet.

THE COURT: No, it has not.

MR. SWEENEY: I don't think that is a proper question at this point.

1 Q (By Mr. Veeder) Well, did you prepare this, Mr.
2 Watson? Did you prepare this map yourself?
3 A Yes, I did.
4 Q I mean this chart.
5 A Yes.
6 Q And what is the source of the data you utilized?
7 A The source of the data is the strip charts collected
8 by the U. S. Geological Survey.
9 Q You made no interpretation of them; you just went ahead
10 and set them out as they appeared, the strip charts;
11 is that right?
12 A Yes, that is correct.
13 Q Based upon the data available to you is this 32-5
14 accurate?
15 A Yes, sir, it is. I might point out that I have listed
16 the days of the month, the calendar days, on this
17 exhibit which do not appear on the U. S. G. S. strip
18 charts.
19 Q Why wouldn't they appear?
20 A The U. S. G. S. strip chart does show the divisions of
21 each of the days, but it does not call out the
22 individual calendar days separately.
23 MR. VEEDER: We offer 32-5.
24 MR. SWEENEY: Could I examine the exhibit?
25 THE COURT: You may.

1 MR. SWEENEY: If I may inquire of Mr. Watson.

2 THE COURT: Voir dire.

3 VOIR DIRE EXAMINATION

4 BY MR. SWEENEY:

5 Q Mr. Watson, as I understood from your identification of
6 Exhibit 32-5, it shows the data from the strip
7 recorders at a particular point on No Name Creek.

8 A Yes, sir.

9 Q And that particular point is where?

10 A No Name Creek above the Walton north boundary.

11 Q What type -- was it flow measured at that -- was the
12 flow of the creek measured at that point?

13 A Yes, sir.

14 Q And does that appear on this exhibit?

15 A This is a representation of the water level as
16 measured in the measurement device at that location.

17 Q And what type of -- was there a flume there or anything
18 to measure the flow of the water?

19 A A Parshall flume, a 9" Parshall flume.

20 Q I see, and did you calculate the rate of flow based
21 on the Parshall flume as it would appear on the exhibit?

22 A The rate of flow does not appear on the exhibit.

23 Q It does not. I notice on the exhibit some notations
24 about No Name Creek, granite lip flume.

25 A Yes, sir.

1 Q So, there is more on there than just the point above --
2 there is more data on there than just the data from the
3 measuring point just to the north of the Walton
4 property.

5 A Yes, sir, that is correct.

6 Q Is there any -- well, would you point out where those
7 other pieces of data are located on the proposed
8 exhibit that go beyond what the measuring point on --
9 just to the north of Walton's property.

10 MR. VEEDER: Explain the source of the
11 granite lip data that is on there and proceed to
12 outline everything that is on there, Mr. Watson.

13 MR. SWEENEY: Well, that is not necessarily
14 what I wanted to find out.

15 Q If there is actually more data appearing on this
16 exhibit than what you said was taken from the north
17 of Walton's property, are there other data --

18 A Yes, sir.

19 Q -- on this exhibit.

20 Well, what is that other data? Just point out
21 where it appears.

22 A The strip chart that I began introducing here is No
23 Name Creek above the Walton north boundary. The second
24 strip chart down on the exhibit is the strip chart on
25 No Name Creek below Mr. Walton's surface diversion.

1 Now, that is referred to on Colville Exhibit No. 10 as
2 measurement point number 15 in the north half of
3 Allotment 2371

4 Q What type of measurement device was there?

5 A This also is a 9" Parshall flume.

6 Q Now, is there other data appearing on this exhibit?

7 A Yes, sir. I made an error in the last statement, Mr.
8 Sweeney. The second strip chart down is a
9 representation of the strip charts as collected at
10 the 9" Parshall flume on Mr. Walton's diversion.

11 Q I see.

12 A Excuse me. And that is referenced on Colville Exhibit
13 10 as measurement device number 12.

14 Q Well, to speed this up, as I understand it, this
15 represents measurements taken at various points on
16 No Name Creek.

17 A Yes.

18 Q Over and beyond the measurement just to the north
19 of Walton's property.

20 A Yes, sir, that was intended.

21 Q Okay. It goes all the way down to the granite lip?

22 A Yes, sir.

23 Q Are there any calculations on the exhibit that you
24 may have made?

25 A No, there are not.

1 MR. SWEENEY: I have no further questions.

2 THE COURT: State?

3 MR. MACK: Your Honor, may I approach the
4 exhibit?

5 THE COURT: You may.

6 VOIR DIRE EXAMINATION

7 BY MR. MACK:

8 Q Mr. Watson, are the notations on this exhibit yours
9 or are those made by the U. S. G. S.?

10 A All the notations on the exhibit are the notations
11 of the U. S. G. S. with the exception of the marking
12 of the calendar dates.

13 Q Those are just the numbers that appear there? The
14 numbers are the ones you put that show the calendar
15 days; is that correct?

16 A Yes, sir, that is correct.

17 Q Were there any other strip charts kept by the U.S.G.S.
18 that don't appear on here?

19 A Not to my knowledge.

20 Q Now, you did say that the rate of flow does not
21 appear. Does this show the depth of flow or quantity
22 of flow or both?

23 A This shows the water level in the measuring device
24 which in all cases is a Parshall flume.

25 Q So that would be the depth.

1 A Yes, sir.

2 Q Stream depth.

3 THE COURT: Mr. Price.

4 VOIR DIRE EXAMINATION

5 BY MR. PRICE:

6 Q Mr. Watson, does this incorporate all of the measuring
7 points along the stream or just selected points along
8 the stream?

9 A This incorporates all measuring points on the stream
10 with strip chart recorders.

11 Q And I didn't quite follow the business about the days.
12 The U. S. G. S. didn't break it down into days, but
13 you did.

14 A The U. S. G. S. at the beginning of each one of its
15 strip charts -- Now, let me explain that.

16 The U. S. G. S. installed the strip chart on No
17 Name Creek at Mr. Walton's north boundary, installed
18 the strip chart as shown in their notes, on January 12,
19 1977. They changed the strip chart at that location
20 on February 2, 1977. So, the U. S. G. S. has written
21 on the strip chart the day that they put it on and the
22 day they took it off, and I have simply used the time
23 scale that appears on the strip chart and just marked
24 the individual days for easy reference.

25 Q There is no guesswork or interpolation by you in

1 arriving at those dates.

2 A No, sir. I know the starting point and the end point.

3 Q And what those purport to measure is strictly just the

4 level of the water at a particular point and not the

5 flow of the water, not the quantity of the water.

6 A That is correct.

7 Q Is it possible that then these measurements might

8 measure -- if the stream were not flowing, would still

9 measure a level even though the stream were not

10 flowing?

11 A The strip charts do indicate level at certain times

12 when the stream is not flowing and that is always

13 well below the point where flow is indicated by the

14 measuring device.

15 Q Thank you.

16 MR. PRICE: No further questions.

17 MR. VEEDER: We renew the offer, Your Honor.

18 THE COURT: Tribe's Exhibit 32-5 is admitted.

19 (Colville Exhibit 32-5 admitted)

20 DIRECT EXAMINATION CONTINUED

21 BY MR. VEEDER:

22 Q Would you proceed, using that Exhibit 32-5 that has

23 now been admitted, and show where the flow was on and

24 when it was off and the areas that were involved,

25 Mr. Watson.

1 A Yes, sir. In particular, the upper strip chart which
2 is No Name Creek above the Walton north boundary is
3 indicated on Colville Exhibit No. 10 as measurement
4 point number 9, shows that the Paschal Sherman
5 irrigation well discontinued pumping on May 15 and 16
6 and the strip chart shows this very precisely. Prior to
7 this period of time, the water level in the flume is
8 shown very distinctly at a very high level, and on
9 this particular chart, the water level in the flume is
10 running at approximately .7 feet as measured by --
11 Q Right.
12 A And on May 15 and 16 there is a very sharp decline in
13 the strip chart.
14 Q Yes.
15 A Which represents the period at which time the Paschal
16 Sherman irrigation well discontinued pumping.
17 Q Yes.
18 A Now, to determine what was taking place downstream, it
19 is necessary to take a look at those same days on the
20 other strip charts.
21 Q Showing the areas in which the pumps have been shut off
22 for whatever period; right?
23 A Yes, I'm referring to the dates of May 15 and 16. And
24 from the strip charts it is possible to see that for
25 about eight hours on the end of the 15th and for the

1 first eight hours on the beginning of the day of the
2 16th of May the water was discontinued. There was no
3 flow at the measurement point, Walton's north boundary.

4 Now, going down to the Walton surface diversion
5 on those same dates, the strip chart shows that on the
6 15th and 16th that the Walton diversion was not
7 operating. The water level at that point of diversion,
8 which is number 12 on Colville Exhibit No. 10, shows
9 that the water had dropped down completely and that
10 there was no diversion. You can see the high water
11 level being recorded in the flume prior to that time,
12 and then on the 15th and 16th there was no flow.

13 Now, continuing down further to measurement point
14 15 on Colville Exhibit No. 10, it becomes apparent --
15 the effect of the discontinuation of the Paschal
16 Sherman irrigation well becomes apparent at that point.
17 And the flow was at a fairly high level, running about
18 .6 feet on the strip chart prior to the 15th and 16th
19 and then there was a very precipitous decline in the
20 water level in that flume on the 15th and 16th, and
21 the bottom of the decline is marked on Colville Exhibit
22 32-5 at a depth of about .14 feet.

23 Now, there were additional times during the
24 irrigation season that this phenomena occurred, and in
25 particular on the 8th and 9th of June, on the 12th and

1 13th of June, and on the 1st and 2nd of July, 1977.
2 The same kind of phenomena was observed and the effect
3 of the Walton surface diversion is shown in all cases,
4 and the effect on No Name Creek below Mr. Walton's
5 surface diversion is also shown.

6 On the 8th and 9th the water level in the flume
7 on No Name Creek below Mr. Walton's surface diversion
8 which is 15 on Colville Exhibit No. 10, on the 8th and
9 9th the water level again dropped down to approximately
10 .16 feet.

11 On the 12th and 13 of June the water level in the
12 flume dropped down to a reading of about .16 feet, and
13 again on July 1 and 2 the water level dropped down at
14 that point to approximately .10.

15 Q Now, would you go back to the exhibit where Mr. MacNish's
16 calculations appear, Mr. Watson.

17 MR. SWEENEY: Excuse me, Counsel. I think
18 that's Mr. Cline.

19 MR. VEEDER: I think that you will find that
20 Mr. MacNish made the measurements as shown on page 9 in
21 which Mr. Cline quotes Mr. MacNish, saying that the flow
22 was .15. You look at page 9, the MacNish report was
23 not incorporated, and I think it might be a good idea
24 to have it in here, Your Honor. I think that just shows
25 the incomplete nature of United States Exhibit No. 1.

1 THE COURT: You have asked the witness to
2 refer to some particular exhibit. What exhibit is it?

3 MR. VEEDER: The exhibit, Mr. Watson, where
4 you first showed the period when the flow didn't go.
5 I think it's --.

6 THE WITNESS: It's Colville Exhibit 17-1

7 MR. VEEDER: 17-1.

8 THE COURT: Turn to 17-1

9 Q (By Mr. Veeder) Now, turning to 17-1, based on your
10 reference to 32-5, will you point out where those
11 occurred, those breaks occurred.

12 A Yes. On May 15 as shown on Colville Exhibit --

13 Q Right.

14 A -- 17-1. On June 8th and 9th as shown on the exhibit.

15 Q In other words, they are reflected there, the same
16 material you had.

17 A Yes, sir.

18 Q Is that right?

19 A Yes.

20 Q Now, have you considered the statement on page 9 of
21 United States Exhibit 1 which the report prepared by
22 Mr. Cline, and he refers to the MacNish report of May
23 -- 1977. Are you aware of what the report is -- What
24 is stated? .5 is it not? -- second feet?

25 A Yes, I am familiar with that number in the report by

1 Mr. Cline on page 9.

2 Q And what is the disparity -- what are the facts
3 actually shown on the basis of exact measurements?

4 A On the basis of the water level measurements in the
5 flume number 15, on Colville Exhibit No. 10, the actual
6 measurement of water level at that flume indicates
7 that --

8 Q Now, actual measurement of that flume of what source
9 of water?

10 A The actual measurement in that flume of the stream-
11 flow of No Name Creek in the absence of developed
12 water by the Colville Confederated Tribes.

13 Q Right.

14 A Shows very clearly that the discharge in the creek
15 corresponding to that water level measurement was .22
16 cfs at a maximum on May 15, 1977, compared with the
17 computation of the natural discharge of No Name Creek
18 by Mr. MacNish and reported by Mr. Cline to be .50 cfs
19 in the U. S. G. S. report of 1978.

20 MR. MACK: Your Honor. I don't -- Mr.
21 Sweeney might be wanting to say the same thing I am,
22 but if the witness is being asked to agree or disagree
23 with the statement in the report, I think we might save
24 a lot of time and won't have to go into cross-
25 examination if it were read. I don't think the figure

1 in the report, for example, is second feet.
2 Q (By Mr. Veeder) Just read the sentence then. This is
3 a copy of the report.

4 THE COURT: Read it in.

5 A I'm referring to page 9 of the U.S.G.S. report 1978,
6 the first paragraph, where it is stated that:

7 "The natural flow in No Name Creek at
8 site N5,"

9 Site N5 is equivalent to site 15 on Colville Exhibit
10 No. 10.

11 "which was 0.5 ft³/s on May 13 (Mac Nish,
12 1977) had decreased to nearly zero by the
13 time the pumping of well water to the creek
14 was stopped on October 7, 1977, the flow
15 being only 0.02 ft³/s on October 13, 1977."

16 Q So it is second feet; is it not?

17 A The symbols in the report are given as "ft³/s" which
18 is cubic feet per second.

19 Q Does that have --

20 MR. VEEDER: Go ahead.

21 MR. SWEENEY: Mr. Mack's comment was not the
22 one I was going to make. I thought that Mr. Watson
23 testified to a rate of flow as of May 15 and then was
24 comparing it to Mr. MacNish's as of May 13 and I was
25 going to only ask that Mr. Watson, if he's going to

1 make that comparison, go to May 13 rather than the 15th
2 if he can, on the exhibit.

3 MR. VEEDER: I think cross-examination takes
4 care of the whole thing, Your Honor.

5 THE COURT: Well, one way or the other.
6 While we've got him, let's clear it up.

7 MR. VEEDER: All right.

8 A The MacNish computation was made on May 13, May 12 and
9 13th, 1977. The actual measurement was made on May
10 15 and 16, 1977.

11 In my opinion, it is inconceivable that the
12 natural spring discharge of No Name Creek, the natural
13 stream flow of No Name Creek on May 12 and 13 could
14 have been one hundred percent higher, and more than
15 one hundred percent higher, than the amount that was
16 actually measured on May 15 and 16.

17 MR. PRICE: Your Honor, I'm going to ask
18 that the answer be stricken as not responsive and no
19 foundation for his response. He is trying to compare
20 apples and oranges.

21 THE COURT: Oh, I think he made the
22 explanation of what the difference is. Maybe I don't
23 understand your objection, but he just testified as
24 to how he arrives at the discrepancy and explained the
25 two-day difference.

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MR. PRICE: He said he couldn't imagine,
Your Honor.

THE COURT: He's talking as an expert.

MR. VEEDER: It's his opinion, too.

THE COURT: It's his opinion. Go ahead.

Q (By Mr. Veeder) Mr. Watson, does that have any effect
on what we call the Cline equation down here, the
water budget, which is the exhibit, U. S. Exhibit 3?

A Yes, sir, it does.

Q And would you point out the difference.

A In the water budget on the U. S. G. S. Exhibit No. 3
for the six-month period of the irrigation season,
April to September, 1977, which appears in the bottom
third of that exhibit, Mr. Cline has used natural
stream flow of No Name Creek creek as measured -- as
computed, excuse me -- at site 15 or site N5 referred
to by the U. S. G. S., site 15 on Colville Exhibit
No. 10. He has referred to a value of 108 acre-feet
as the natural stream flow of No Name Creek at that
point for the period April to September, 1977, and
that figure is calculated -- "estimated" is the word
used in the U. S. G. S. report, I believe -- based on
the .5 cfs as quoted from the MacNish report, when the
actual measurement of the discharge on May 15 was
shown to be approximately .22 cfs.

1 Q And there was a disparity down on other points of
2 discharge; is that not right, in June and also in
3 July?

4 A Yes, sir, in the other periods --

5 MR. PRICE: Mr. Watson, excuse me.
6 Your Honor, I object to the terminology "disparity"
7 in terms of the witness testifying.

8 MR. VEEDER: I will say "difference" if that
9 will make him happier. There is a difference, Your
10 Honor.

11 THE COURT: Proceed.

12 A Also Mr. Cline relied on higher estimates, if you will,
13 of the natural stream flow of No Name Creek which
14 could not be separated from the developed water that
15 was in the creek at that time.

16 In other words, the developed water in the
17 natural stream flow of No Name Creek were commingled
18 throughout the irrigation season except for these four
19 brief periods of time when the Paschal Sherman
20 irrigation well was discontinued.

21 Q When the Paschal Sherman well was discontinued, then
22 the actual flow of the stream was subject to be
23 measured; is that right?

24 A That is absolutely correct.

25 Q That is the discharge from the aquifer; right?

1 MR. SWEENEY: I think this is a little
2 leading.

3 MR. VEEDER: All right.

4 THE COURT: I think so. Sustained.

5 Q (By Mr. Veeder) Would you state, then, the difference
6 between the "estimates" used by Mr. Cline and the
7 actual measurements as you depicted them.

8 A The actual measurements in June and July are less than
9 the estimates of Mr. Cline in those months.

10 Q And what is the magnitude of the difference?

11 A The magnitude of the difference is considerable, and
12 I do not know precisely what the number is.

13 Q What is the difference between the 5 and .2, then,
14 for example, in the first measurement?

15 A In May the difference between the estimate or the
16 computation of .5 cfs is quoted from the MacNish
17 report incorrectly, is the difference between .5 cfs
18 and point .22 cfs which is the difference of .28 of a
19 cfs.

20 Q And that's that difference in regard to acre-feet used
21 in the equation, then.

22 A That difference in regard to acre-feet for that month,
23 just the month of May, is a difference of approximately
24 15 to 20 acre-feet.

25 Q In other words, the equation would have been off that

1 far just for the one month; is that correct?

2 A For the month of May, yes, sir.

3 Q And if we carried out those calculations the
4 disparity would be even greater.

5 MR. SWEENEY: Just a moment. That's leading.

6 THE COURT: Sustained.

7 Q (By Mr. Veder) Would you state as to whether the
8 disparity would continue from the calculation you made
9 in May.

10 A Yes, sir, the disparity would continue in June, in
11 July. Mr. Cline recognized that at the end of the
12 irrigation season that the natural stream flow of No
13 Name Creek as measured at site 15 had decreased to
14 essentially zero. In his report he says, "the flow
15 being only 0.02 ft³/s on October 13, 1977." So, it
16 was evident at the end of the irrigation season that
17 the natural stream flow was substantially less than it
18 had been at the beginning of the irrigation season
19 which was approximately .50 cfs.

20 Q Would you supply, during the next recess, a calculation
21 in acre-feet as to the disparity between what appears
22 in the equation and strip charts as you -- .

23 A Yes, sir, I have that available and I can make it
24 available.

25 Q That is fine, thank you. Now, would you turn to

1 Colville Exhibit 13-3, please. You can take down the
2 budget.

3 And will you state into the record --

4 A I didn't hear the exhibit number, Mr. Veeder.

5 Q 17-3. Would you read into the record what the title
6 block on that exhibit is, and say who prepared it.
7 State succinctly the date that appears on it, and your
8 opinion of the accuracy of it, please.

9 A Yes, sir. The title of Colville Exhibit 17-3 is
10 Illustration of Streamflow Gains and Losses of No Name
11 Creek between Flume below Walton Surface Diversion and
12 Flume on Granite Lip.

13 The exhibit has a scale on the right hand side,
14 a vertical scale that relates average daily discharge
15 in cfs, and has a calendar day scale running across the
16 bottom from January 1 to December 31, 1977.

17 The exhibit was prepared under my direction, and
18 the information presented on the exhibit accurately
19 depicts the stream flows at the two locations referenced
20 in the title.

21 Now, the two locations on the title that we're
22 referring to are locations 15 and 17 in Colville Exhibit
23 No. 10. 15 is No Name Creek below Mr. Walton's surface
24 diversion, and 17 is No Name Creek on the granite lip.

25 Now, the exhibit, again, is very similar to the

1 exhibits that were described yesterday, 17-1 and 17-2,
2 and the intent of the exhibit is to show the gains in
3 the stream flow between these two points and during
4 what periods --

5 Q Between what two points?

6 A Between the points number 15 and 17 shown on Colville
7 Exhibit No. 10.

8 MR. VEEDER: We offer in evidence exhibit
9 17 -- Colville Exhibit No. 17-3.

10 MR. SWEENEY: What's the number of that
11 exhibit again?

12 MR. VEEDER: 17-3.

13 THE COURT: Seventeen dash three.

14 MR. SWEENEY: I see.

15 THE COURT: And excuse me, Mr. Watson.

16 Your numbers on the lefthand side, are those cfs's?

17 THE WITNESS: Yes, sir, they are. Average
18 daily discharge in cubic feet per second.

19 THE COURT: Go ahead, Mr. Sweeney.

20 MR. SWEENEY: Thank you, Your Honor.

21 VOIR DIRE EXAMINATION

22 BY MR. SWEENEY:

23 Q This shows stream flow from two points on No Name
24 Creek, 15 and 17; is that correct?

25 A Yes, sir.

1 Q And 15 is below Mr. Walton's surface diversion?

2 A Yes, sir.

3 Q What type of measurement device is there?

4 A 9" Parshall flume.

5 Q And then you calculated, you make calculations as to
6 the amount of flow as it passed through that Parshall
7 flume; is that correct?

8 A Based on the strip charts that we just looked at
9 on Colville Exhibit --

10 MR. VEEDER: 32-5.

11 A -- 32-5.

12 Q What I'm trying to get at is that you made calculations
13 as to the amount of water passing that point.

14 A Based on the water level measurements, yes, I did.

15 Q And you used the manufacturer's specifications for
16 that?

17 A I used the manufacturer's rating curve for that.

18 Q I see. Then it also shows point 17 which is at the
19 granite lip.

20 A Yes, sir.

21 Q Okay. What kind of a measuring device is there?

22 A An 18" Parshall flume.

23 Q And then you used the manufacturer's calculations, or
24 specifications to make the calculations there, too?

25 A Yes, I did.

1 Q And that is reflected on Exhibit 17-3.

2 A That is also reflected on Exhibit 17-3.

3 MR. SWEENEY: Okay, I have no further
4 questions.

5 THE COURT: Mr. Price.

6 MR. PRICE: One question, Your Honor.

7 VOIR DIRE EXAMINATION

8 BY MR. PRICE:

9 Q Mr. Watson, is point 15 -- where does that lie in
10 proximity to Walton's -- the return pipe from his
11 sump?

12 A It's upstream.

13 Q Upstream.

14 A Yes, sir.

15 Q And, so, below point 15 there is a pipe that, after
16 Walton diverts water into the sump, any overflow goes
17 back down the pipe to the creek.

18 A Yes, sir.

19 Q Thank you.

20 MR. MACK: Your Honor, may I?

21 THE COURT: Mr. Mack.

22 VOIR DIRE EXAMINATION

23 BY MR. MACK:

24 Q If I understand it, Mr. Watson, you have there the
25 cubic feet per second figures which you calculated

1 from some other figures given you by U. S. G. S.;
2 is that correct?

3 A I calculated average daily discharge based on the
4 strip chart records provided by the U. S. G. S. as
5 presented in Colville Exhibit 32-5.

6 Q That was my understanding. Strip chart records give
7 you what data?

8 A Water level, -- in the measuring flume, and the water
9 level in the flume is very closely related to the
10 geometry and from that geometry the discharge can be
11 computed very accurately.

12 Q And did you in your calculations of that, did you
13 follow normal, in your opinion, normal procedures to
14 calculate the quantity figures?

15 A Very much so.

16 MR. SWEENEY: Could I ask one more question,
17 Your Honor?

18 THE COURT: Yes.

19 MR. SWEENEY: May I approach the witness and
20 the easel?

21 VOIR DIRE EXAMINATION CONTINUED

22 BY MR. SWEENEY:

23 Q Proposed exhibit 17-3 is based on the strip charts that
24 are shown on 33-5?

25 A Yes, sir.

1 Q Could I look at 33-5?

2 A Excuse me. 32-5.

3 Q Or, 32-5. And which two strips would be the ones you
4 used to put the data-- which would be measuring points
5 15 and 17?

6 A 15 is represented by the third set of strip charts from
7 the top on Colville Exhibit 32-5, and 17 is represented
8 by the fourth set of strip charts from the top.

9 Q And then the proposed exhibit corresponds to this.

10 A Yes, sir, it does.

11 Q But it shows an amount of flow; is that correct:

12 A It shows the total amount of flow at each one of
13 these locations and the difference between the flows.

14 Q Now, this is 15, the third one from the top, point 15?

15 A The third set of strip charts is 15.

16 Q What date is this that I'm pointing to?

17 A That date is May 15-16.

18 Q How come it's very jagged at the bottom of the flow
19 chart, recorder reading?

20 A There are any number of things that could have been
21 influencing that, Mr. Sweeney.

22 Q Does that, whatever that is, then, is that reflected
23 on 17-3?

24 A Is that jagged --

25 Q Yes.

1 A -- image reflected on 17-3? No, that is not.
2 Q Okay.
3 MR. SWEENEY: I have no further questions.
4 THE COURT: Tribe's Exhibit 17-3 is
5 admitted.
6 (Colville Exhibit 17-3 is
7 admitted.)
8 Q (By Mr. Veeder) Would you go on with the explanation
9 of what is reflected on that, going straight across
10 from left to right.
11 A Yes, sir. Again, the discharge at 17 and 15 are shown
12 on Colville Exhibit No. 17-3. The green area beginning
13 in January and extending through the month of March
14 and into early April represents a gain in the stream
15 flow between points 15 and 17 on Colville Exhibit No.
16 10. In other words, there was runoff from precipita-
17 tion. This was the only that was going on in the
18 basin was just what was occurring naturally.
19 Q Would you turn to Exhibit No. 7 and show where that
20 precipitation fell and where it would enter No Name
21 Creek and make this more -- .
22 A I'm referring to Colville Exhibit No. 7, titled the
23 Watershed Map, and the precipitation fell between
24 measurement point number 15 --
25 Q Right.
A -- as shown on this exhibit, and measurement point 17,

1 also as shown on this exhibit, Colville Exhibit No. 7.

2 Q Now, how is that designated on Colville Exhibit
3 marked for identification No. 7? How have you
4 designated that?

5 A The area, the drainage area that contributes --
6 precipitation runoff --

7 Q Yes.

8 A -- to this area, is designated by the line beginning
9 on No Name Creek at point 17 and extending in an
10 easterly and northerly direction over to the major
11 watershed boundary of No Name Creek in the northeast
12 quarter of section 2. And then the watershed boundary
13 proceeds along the boundary between No Name Creek and
14 Omak Creek and then joins the smaller watershed
15 segment that begins on No Name Creek at measurement
16 point 15, and extends to the topographic boundary
17 between No Name Creek and Omak Creek, and a similar
18 circumstance on the west side of No Name Creek also.
19 The line beginning at measurement point 15 and
20 extending in a southwesterly direction across section
21 21, is a watershed boundary to the Creek at that
22 point, and the watershed boundary intersects the main
23 watershed boundary between No Name Creek basin and the
24 basin to the west, and then this is in the southeast,
25 extreme southeast quarter of section 20, and from there

1 the watershed boundary again extends from point 17
2 in a northwesterly direction to the divide. Now,
3 the whole area that is encompassed by this watershed
4 boundary is referred to in --

5 Q In segment one now.

6 A -- Is referred to on Colville Exhibit No. 7 as
7 segment two.

8 Q Segment two, all right.

9 A And segment two as described on the exhibit is between
10 Walton surface diversion and the granite lip and that
11 acreage is 926 acres.

12 Q So, you are able, then, to make a determination that,
13 in your opinion -- Do you have an opinion as to what
14 water went into No Name Creek, then, without entering
15 the aquifer

16 A Yes, sir. In my opinion, the area outlined in green
17 on Colville Exhibit 17-3 is watershed runoff from
18 segment number two on Colville Exhibit No. 7 that did
19 not go into the No Name Creek aquifer. very quickly
20 entered the valley of No Name Creek between points
21 15 and 17, flowed out of that segment and into the
22 north end of Omak Lake. The exhibit through the non-
23 irrigation season, through the first part of 1977,
24 shows very distinctly the watershed runoff that would
25 be contributed between those two points, and you can

1 see the high peaked areas in late February and again
2 toward the middle of March at both locations, 15 and
3 17, which represent high rates of discharge from
4 snow melt or precipitation, rainfall, that occurred in
5 relatively short periods of time.

6 Q Have you made any relationship between your
7 calculations and what appears on the water budget as
8 prepared by Mr. Cline?

9 A Yes, I have.

10 Q Would you state that into the record.

11 A First, in the period from the end of January, 1977,
12 through the end of March, 1977, and into the 19th of
13 April 1977, I calculated the difference in the
14 stream flow between sites 15 and 17 which would be
15 the natural runoff from precipitation during that
16 period and I found that the precipitation in that
17 period of time amounted to a quantity of approximately
18 20 acre feet.

19 Q And what does Mr. Cline show here?

20 A Is it okay to leave the exhibit in this -- ?

21 Q It's certainly okay. If His Honor wants to put it up --

22 THE COURT: I can see it.

23 A I'm referring now to the U. S. A. Exhibit No. 3 where
24 Mr. Cline shows that during the non-irrigation season,
25 the five-month period from November 1976 through March

1 1977, which is a considerably longer period of time
2 than is shown on Colville Exhibit No. 17-3, an
3 additional two months, that he has a computation
4 of runoff and precipitation of 20 acre feet during
5 that period of time.

6 Q Have you -- and that is an estimate as distinguished
7 from your measurement; is that right?

8 A Well, if I understood Mr. Cline correctly, he
9 estimated that the precipitation runoff in No Name
10 Creek basin based on the way precipitation runs off
11 in a --

12 MR. SWEENEY: Just a moment. If I may
13 interject, I think it's not being properly
14 characterized. The Government's Exhibit No. 3,
15 R is recharge from precipitation, not runoff.

16 THE COURT: Well, --

17 MR. SWEENEY: -- as Mr. Watson has
18 characterized it. If he is going to use that exhibit,
19 I think it should be properly --

20 THE COURT: He has to express his opinion
21 on his understanding of what it is. It might be right
22 or it might be wrong. His opinion has to be based on
23 his belief of what the facts are, used by Mr. Cline.

24 MR. SWEENEY: Yes, that's perfectly all right,
25 Your Honor.

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THE COURT: Proceed.

A The parameter shown in the U. S. A. Exhibit No. 3, as Mr. Sweeney correctly points out, is the recharge to the acquifer above the point of Mr. Walton's surface diversion on No Name Creek. It's runoff or recharge from precipitation that was contributed to the aquifer during the period from November 1976 through March 1977.

Now, in my opinion, referring now again to Colville Exhibit No. 7 which shows the watershed area of segment two which has 926 acres, and the actual watershed area of the area that contributes to the No Name Creek aquifer which is shown on Colville Exhibit No. 7 as areas five and six with a total acreage of 256 plus 534. That is total acreage of 790 acres contributed to the acquifer in watershed segments five and six.

In my opinion, the watershed runoff during the period from February -- the first of February through April 19 as shown on here, Colville Exhibit 17-3, was 20 acre feet as measured.

Q And that excluded what months, as shown on the chart?
A That excluded the months of November, December and January, as given by Mr. Cline in U. S. A. Exhibit No. 3. So, the essence of that is that 20 acre feet being

1 contributed to the aquifer during that period, may
2 or may not be an appropriate amount. Certainly, during
3 this period of time that was measured here we saw more
4 precipitation runoff being contributed by an area
5 comparable to the area that contributes to the aquifer
6 which is five and six on Colville Exhibit No. 7, so
7 that it would be expected, in my opinion, during the
8 months of November, December and January 1976-1977
9 there would have been more water contributed to the
10 aquifer from watershed segments five and six.

11 Q And what does that do to the number 20?

12 Q The number 20, then, is smaller than what actually
13 recharged the aquifer during this period.

14 Q Now, what does that do to the equation, then, in your
15 opinion?

16 A The equation then becomes completely out of balance.
17 Mr. Cline testified to the fact that the equation
18 always has to balance on the left and the right side
19 and for that five-month period, based on measurements
20 of precipitation runoff in an area of the No Name
21 Creek basin, not from some area outside, but based
22 purely on the measurements of the runoff in the No
23 Name Creek basin, it is very clear that this number
24 20 which corresponds to the recharge of the precipita-
25 tion to the aquifer, had to be in error.

1 Q Now, may I ask you again, have you made a calculation
2 in regard to the recharge from precipitation as
3 disclosed from April to September which I observe on
4 the water budget on U. S. Exhibit No. 3, is 93; is
5 that not correct?

6 A Yes, sir, on Colville -- on U. S. A. Exhibit No. 3,
7 excuse me, the recharge from precipitation in the
8 six-month irrigation season, April through September,
9 1977, is given as 93 acre-feet.

10 Q And what is your determination made, Mr. -- ?

11 A During the irrigation season of 1977, after pumping
12 began, as shown on Colville Exhibit 17-3, the
13 difference in stream flow between sites 15 and 17 on
14 the creek is attributed to runoff from precipitation
15 from watershed segment number two, as well as any
16 return flows from irrigation by Mr. Walton during this
17 period of time, and, therefore, the total amount of
18 green area shown on Colville Exhibit No. 17-3 is greater
19 than the amount of runoff from precipitation, because
20 there is a contribution from return flow of irrigation
21 in this. His sump overflows at times and that
22 contributes water between this area as Mr. Price
23 pointed out, and any water that has been applied to
24 the irrigated areas in that area that is not consumed
25 by the plants appears back in the stream flow above

1 the granite lip or above point 17 as return flow from
2 the irrigation. Therefore, this cannot be attributed
3 solely to precipitation runoff during this period. I
4 think by inspection that it is very clear that there is
5 not considerable amount of runoff plus return flow
6 during the period from April 1977 through September
7 1977, in relation to the amount of precipitation
8 runoff in the first four -- first three months of the
9 year. Therefore, just by inspection it is clear that
10 if watershed segment two on Colville Exhibit No.
11 17 (sic) contributed only 20 acre-feet during the
12 first three months, that not much difference in
13 contribution to that watershed segment was experienced
14 during the irrigation season.

15 Q What did that do to the 93, then?

16 A That would significantly reduce the 93 acre-feet shown
17 on U.S.A. Exhibit No. 3 in reference with recharge from
18 precipitation. Again, the effect of that difference
19 would be to completely unbalance the equation, and the
20 conclusions that are expressed in the water budget
21 computations are very sensitive to those kinds of
22 adjustments.

23 Q Now, as a matter of fact, what were you utilizing,
24 estimates or measurements, when you made your
25 calculations on two and five and six, your segments on

1 the watershed map number 7.

2 A I was making measurements of the difference in stream
3 flows, the gain in stream flows, between 15 and 17,
4 actually using measurements from watershed segment two,
5 and then applying those same rates of recharge to water-
6 shed segments five and six.

7 Q Runoff areas of which are substantially the same; is
8 that right?

9 A The runoff area of five and six is smaller than the
10 runoff area of watershed segment two. Therefore, the
11 contribution from segment two that we have discussed
12 in Colville Exhibit 17-3 would be greater than the
13 recharge from precipitation to the aquifer in these
14 areas, these areas being five and six.

15 Q And how precise do you think the number of 503 is that
16 is set out at the end of this second equation?
17 I'm still referring to Exhibit No. 3, the water budget.

18 A Referring to the number 503 on the water budget,
19 Exhibit U.S.A. 3, that number is clearly imprecise.

20 Q Now, Mr. Watson, would you turn to Exhibit No. 18,
21 please, Colville Exhibit No. 18, and state into the
22 record what appears on that exhibit.

23 A Colville Exhibit No. 18 shows a relationship between
24 the natural stream flow of No Name Creek measured at
25 measurement point number 15 on Colville Exhibit No. 7

1 and also on Colville Exhibit No. 10.

2 Q Recite again, just for the record, of what 15 is
3 reflective, Mr. Watson.

4 A 15 is No Name Creek below Mr. Walton's surface
5 diversion.

6 Q All right.

7 A So, Colville Exhibit No. 18 shows the natural stream
8 flow of No Name Creek in comparison with the water
9 level measurements made in the Peters observation well
10 principally during periods of no pumping. So, the
11 exhibit shows a very good relationship, very exacting
12 relationship between the stream flow at Mr. Walton's
13 diversion dam, or No Name Creek below Mr. Walton's
14 surface diversion, shows very good relationship between
15 the stream flows there and the water levels as measured
16 in the Peters observation well.

17 Now, there are a number of small circles on the
18 exhibit that are numbered and referenced in the
19 tabulation in the lower righthand corner of the exhibit
20 and each one of the numbers corresponds to the date of
21 measurement, of depth of water in the Peters observa-
22 tion well as made by the U. S. Geological Survey, and
23 it also relates to the gauge height and the discharge
24 or the stream flow of No Name Creek as measured at
25 measurement point 15, No Name Creek below the Walton

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surface diversion.

Q Now, just a moment. Did you prepare that exhibit yourself?

A I prepared the exhibit myself, yes.

Q And did you use the standard practices and procedures in arriving at that curve?

A Yes, sir, I did.

Q And the numbers you used are precise to the extent of your own personal knowledge?

A The numbers that I used are very precise and accurately represented on the exhibit.

Q And you believe that that curve is reflective of the quantity of water that did appear during the period from the natural spring zone to which you are making reference; right?

A I believe that this relationship is a very good representation of the discharge of No Name Creek measured on No Name Creek below Mr. Walton's surface diversion as compared with the water level in the aquifer represented by the Peters observation well. In other words, the stream flow of No Name Creek is very well correlated with the water level in the No Name Creek aquifer, and the stream flow at that point can be very accurately computed using the water level elevations in the No Name Creek aquifer as measured

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in the Peters observation well.

MR. VEEDER: We offer Colville Exhibit marked 18 in evidence.

THE COURT: Mr. Sweeney.

MR. SWEENEY: Yes, Your Honor. I'm not a hydrologist, but I would like to ask a couple of probably simple questions that come to mind.

VOIR DIRE EXAMINATION

BY MR. SWEENEY:

Q On Exhibit 18, where is the flow of No Name Creek shown?

A The flow of No Name Creek is shown by the scale at the bottom of the exhibit entitled Discharge of No Name Creek Below Walton's Surface Diversion, and the scale runs from .1, excuse me, from zero in the lower left-hand corner to .7 cfs.

Q And then this curved line, what does that represent?

A The curved line represents the best fit, if you will, of the plot of the observed water levels in Peters observation well and the discharge of No Name Creek during periods of no pumping from the aquifer.

Q And you have a list of stream flow, -- well, let me rephrase that.

On the exhibit, then, you also have a statement

1 as to the stream flow of No Name Creek below Mr.
2 Walton's surface diversion which is on the right of
3 the exhibit.
4 A Yes, sir.
5 Q And that is measured where?
6 A These stream flows are measured at measurement point
7 15 which is No Name Creek below the Walton surface
8 diversion.
9 Q And those were those Parshall flumes that you previously
10 described?
11 A 9" Parshall flumes.
12 Q And you calculated from those the stream flows that
13 appear on the exhibit?
14 A Yes, sir.
15 Q And as far as the water level elevation in the Peters
16 observation well that also appear on this exhibit,
17 that was taken from the U.S.G.S. data; is that correct?
18 A Yes.
19 MR. SWEENEY: Okay, I have no further
20 questions.
21 THE COURT: Mr. Mack?
22 Mr. Price.
23 VOIR DIRE EXAMINATION
24 BY MR. PRICE:
25 Q Mr. Watson, this Exhibit 18 is purporting to show

1 that when the Tribe turns on their pumps, they can
2 dry up the flow of No Name Creek; is that the essence
3 of this exhibit?

4 A No, absolutely not.

5 MR. PRICE: I have no further questions.

6 THE COURT: Mr. Mack.

7 MR. MACK: Your Honor, thank you.

8

9

VOIR DIRE EXAMINATION

10 BY MR. MACK:

11 Q Mr. Watson, the second column in the box on the right-
12 hand side of Colville Exhibit 18 there is a series of
13 dates; right?

14 A Yes.

15 Q And is the curve that you plotted from the period of
16 time first shown which is March of 1976 to the latest
17 date which is November of '77?

18 A The curve is not plotted from -- on a chronological
19 basis.

20 Q But the figures plotted on the curve are taken for
21 certain dates; isn't that correct?

22 A Yes, sir.

23 Q Can you explain which of the dates shown in the column
24 are represented on the exhibit and which aren't.

25 A All dates shown on the -- in the tabulation or shown

1 on the graphical illustration, both which appear on
2 Exhibit 18.

3 Q I notice that in the fourth column for the date of
4 November 7, 1977, the water level elevation being
5 sea level figures in the Peters well is given as
6 1129.48 feet; is that correct?

7 A Yes.

8 Q Where does that appear on this graph?

9 A That is point number 26, referring to the first
10 column, -- index number?

11 Q Yes.

12 A So, 26 is shown in the extreme lower left-hand corner
13 on the exhibit.

14 Q Directing your attention from that figure which I
15 just read which was 1129.48 to the last column which
16 is the stream flow for No Name Creek, the figure that
17 corresponds there is .02; isn't that correct?

18 A Yes, sir.

19 Q And does that appear somewhere on that curve, the
20 .02 figure?

21 A Now, are you referring again to November 7, 1977?

22 Q Yes, sir.

23 A Yes, the .02 is shown -- do you understand the way
24 this works, Mr. Mack?

25 Q Yes.

1 A You take the date, November 7, 1977, now that is
2 point number 26 that appears on the exhibit.
3 Q So, both of those data appear at point 26.
4 A So, the way --
5 Q Correct?
6 A The way this is plotted is that the water level
7 elevation of 1129.48 is plotted on the vertical
8 scale.
9 Q Yes.
10 A And then from the vertical scale, you move horizontally
11 to the discharge which is given as .02.
12 Q Yes.
13 A And that becomes point 26 on that exhibit.
14 Q Which is not on the curve; is that correct?
15 A No, sir.
16 Q Are these dates primarily during the non-irrigation
17 period?
18 A All dates from 1 through 26 are during the
19 non-irrigation period.
20 Q And then the last four are the only four irrigation
21 period dates; is that correct?
22 A Yes.
23 Q Thank you.
24 THE COURT: Further inquiry?
25 Tribes' Exhibit 18 will be admitted.

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(Colville Exhibit No. 18
admitted.)

DIRECT EXAMINATION CONTINUED

BY MR. VEEDER:

Q Would you now turn to Exhibit 33-1, Mr. Watson.

Do you have 33-1 there now?

A Yes, I do.

Q Now, would you proceed with your correlation between the observations and the stream discharge to which you alluded.

A Yes.

THE COURT: Counsel, first, I think 33-1 has not been identified yet.

THE WITNESS: Yes, it has not been identified yet.

Q (By Mr. Veeder) Would you please read the title block and state into the record the source of the data that you have. Excuse me.

A The title block on Exhibit 33-1 is Elevation of Groundwater, Peters Observation Well. Again, we are showing a calendar scale beginning 1975, January, and extending through December, 1977, on the bottom. On the vertical scale the elevation of water. The elevation as given on that scale in feet above mean

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sea level. The line shown on Colville Exhibit 33-1 simply represents the measured water levels in the Peters observation well beginning in July, approximately July 20, 1975 and extending through that year. The water level is --

Q Before going any further, would you state the source of the data to which you are referring.

A The source of the data to which we are referring on Colville Exhibit 33-1 is data collected by the Colville Confederated Tribes beginning in July, 1975, and extending to the Order of the Court of July 14, 1976, at which time U.S. Geological Survey took over the maintenance of the record and after the Order was entered, the U.S. Geological Survey collected the data.

The data from July, 1976 through November, 1977 was collected by the U.S. Geological Survey.

Q And that data is reflected on this hydrograph; right?

A The data is reflected on the hydrograph, accurately.

Q And to the best of your knowledge, it is accurate predicated from the data you had; is that right?

A It is an accurate representation of the data I had.

MR. VEEDER: We will offer in evidence the data as appearing on Peters observation well, 33-1.

MR. SWEENEY: No objection by the United

1 States, Your Honor.

2 THE COURT: Mr. Price.

3 MR. PRICE: Just a point of clarification
4 more than anything, Your Honor.

5

6

VOIR DIRE EXAMINATION

7

BY MR. PRICE:

8

Q Mr. Watson, do we not already have such an exhibit

9

in evidence where you have plotted this and then

10

replotted it and overlaid the two on Peters observa-

11

tion well that you went through yesterday?

12

A The same information that we described yesterday on

13

Colville Exhibit 25-1 is presented on this exhibit

14

with the exception of the plot of the information

15

through February 3, 1978, and the projection of water

16

levels as given on that exhibit.

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Q So, this is a duplication except that it does not

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show records up to date so far as we have them, plus

19

it doesn't show your projections.

20

A Yes, sir.

21

MR. PRICE: If it assists counsel, I have

22

no objection.

23

THE COURT: All right. Tribes' 33-1 is

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admitted.

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(Colville Exhibit No. 33-1
admitted.)

1 DIRECT EXAMINATION CONTINUED

2 BY MR. VEEDER:

3 Q Well, proceed, then, and correlate and demonstrate
4 from the use of those two exhibits the correlation
5 between what you showed on the rating curve and your
6 Exhibit 33-1, Mr. Watson.

7 A The first item of significance on Colville Exhibit
8 33-1 is that from November, 1975 through the middle
9 of March, 1976, the water level in the No Name Creek
10 aquifer was on a gradual and continuous decline.
11 Now, the significance of that observation is that
12 there was no pumping taking place. There was natural
13 discharge of the aquifer to the channel of No Name
14 Creek, that the water level was falling in the aquifer
15 which meant that there was more water going out of
16 the aquifer than was coming in as recharge from all
17 sources.

18 Now, referring back to Colville Exhibit No. 18,
19 to index number one, it is pointed out that on March
20 12, 1976 U.S. Geological Survey made a miscellaneous
21 current meter measurement on No Name Creek at Mr.
22 Walton's driveway, and if you read the note on that
23 exhibit, it says "discharge was determined by U.S.G.S.
24 using current meter on No Name Creek at Walton
25 driveway cross."

1 Now, at that point is shown on Colville Exhibit
2 No. 7 as point number 10. This is where No Name
3 Creek crosses Mr. Walton's driveway. Now, this is
4 reflective of the amount of water that was being
5 discharged from the aquifer at that time and, as
6 stated previously, this amount was greater than the
7 amount of recharge being contributed to the aquifer
8 from all sources. The water level would not have
9 been falling in No Name Creek aquifer from November
10 through March -- from November, 1976 through March,
11 1976, if the recharge had been greater than the amount
12 of water going out of the aquifer. The converse was
13 true.

14 The value of the discharge as measured by the
15 U.S. Geological Survey on March 12 was .66 cfs, and,
16 therefore, because of the basis that we have just
17 established, the .66 cfs is greater than the recharge
18 from all sources that was being contributed to the
19 No Name Creek aquifer during this period of time.

20 Q Now, Mr. Watson, have you considered all of the data
21 from the standpoint of precipitation and runoff during
22 the full 69-year period that those measurements have
23 been taken?

24 A Yes, sir, I have.

25 Q And have you considered the years 1975, '76, '77, from

1 the standpoint of whether they are representative of
2 good years or bad years?

3 A The -- yes, I have.

4 Q And would you state into the record of what period,
5 where you have had actual measurements, actual
6 determinations, as to the quantities of water that
7 was in the stream which you measured, have you taken
8 into consideration whether they are representative
9 or not of the precipitation that has transpired down
10 through this long period of 69 years?

11 A Yes, I have taken that into consideration.

12 Q And have you taken into consideration all of the
13 data that you have reviewed from the standpoint of
14 contributions from the natural infiltration from
15 Omak Creek into the groundwater aquifer?

16 A Yes, I have.

17 Q And predicated upon all of the data that you have
18 reviewed here and all of the measurements that you
19 have made, have you an opinion as to what you
20 consider to be a firm, not an average, a firm annual
21 supply of water that can be relied upon in the No
22 Name Creek basin from the aquifer that is described
23 and set forth and appears on Colville Exhibit No. 7?

24 A Yes, I have an opinion.

25 Q And what is your estimation, what is your opinion as

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to the quantity of water -- what is your opinion as to the quantity of water that can be reasonably relied upon predicated upon what you consider to be a firm supply of water?

A In my opinion, the firm water supply of the No Name Creek basin, from all sources, is 550 acre-feet per year.

MR. VEEDER: Your Honor, I'm at a point where I would like to put in some additional evidence.

THE COURT: It's a good time to take a morning recess. Court will be in recess for 15 minutes.

THE CLERK OF THE COURT: All rise. Court is now recessed for 15 minutes.

(Morning recess is taken.)

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THE CLERK OF THE COURT: Court is reconvened following recess.

THE COURT: You may continue.

MR. VEEDER: Your Honor, I have Colville Exhibit 15-2 which is the exhibit concerning which Mary Ann Timentwa Sampson testified as to the area that she knew to be irrigated in the 1920's and during the 30's.

DIRECT EXAMINATION CONTINUED

BY MR. VEEDER:

Q Mr. Watson, did you prepare the Exhibit 15-2?

A The exhibit was prepared under my direction.

Q And did you go on to the area and personally check out the fields as you found them to be, prior to the time of the present status of development?

A Yes, I did.

Q And are those depictions correct, to your personal knowledge?

A The depictions shown on Colville Exhibit 15-2 are true and accurate to my personal knowledge, both on the east side and west side of No Name Creek.

Q And in Allotments 901 and 903.

A In Allotments 901 and 903.

MR. VEEDER: I make an offer on Exhibit 15-2,

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Your Honor.

THE COURT: Examination on 15-2?

MR. SWEENEY: We have no objection.

MR. MACK: Your Honor, if I might.

THE COURT: Mr. Mack.

VOIR DIRE EXAMINATION

BY MR. MACK:

Q Mr. Watson, just to get this clear, the process that went into preparing this, did that involve you going out to the fields with Mrs. Sampson and she explained to you what had been irrigated and then you transferring it onto this exhibit?

A Yes, sir.

Q And when you said it was prepared under your direction, could you explain who else participated in the preparation of this?

A I was solely responsible for the technical materials shown on the exhibit, Mr. Mack. When I say that it was prepared under my direction, the coloring and the actual drawing of the symbols was done by draftsmen with my company.

Q And he just followed your directions on what to do; correct?

A Yes, sir.

1 Q Thank you.

2 THE COURT: Tribes' Exhibit 15-2 is admitted.
3 (Colville Exhibit No. 15-2
4 admitted.)
5

6 DIRECT EXAMINATION CONTINUED

7 BY MR. VEEDER:

8 Q Now, would you flip that over to the Colville irrigation
9 project. I believe that is No. 8.

10 Now, I hand you Colville Exhibit 24-1, and ask
11 you to state into the record, what is that exhibit?

12 A Colville Exhibit 24-1 is a summary of the irrigation
13 water requirements for the total irrigable lands of
14 the Colville irrigation project.

15 Q And under whose direction was that prepared?

16 A This was prepared under my direction.

17 Q And of what is that reflective, Mr. Watson, from the
18 standpoint of the water requirements? What does that
19 mean?

20 A Water requirements are the amounts of water required
21 at the point of diversion to irrigate a crop and to
22 provide the actual water requirement of that crop.

23 Q And what are the elements that you took into consider-
24 ation in arriving at the quantities of water required
25 to produce a crop?

1 A The elements that I took into consideration, Mr.
2 Veeder, were the particular and unique soils within
3 the Colville irrigation project on Allotments 526,
4 892, 901 and 903.

5 In addition, I took into the account the very
6 specific temperature and precipitation data as collected
7 and published by the United States Weather Bureau
8 for the town of Omak, Washington, which is very close
9 to the Colville irrigation project.

10 In addition to that, I took into account the
11 latitude at which the Colville irrigation project is
12 located. I took into account the type of crop that
13 would be grown on the Colville irrigation project, and
14 I took into account data on consumptive use of the
15 kind of crop that would be grown on the Colville
16 irrigation project, as collected by the State of
17 Washington in its central Washington experimental --
18 at its central Washington experimental station.

19 In addition to all of that information, I took
20 into account the efficiency of the various kinds and
21 types of irrigation application methods that could
22 be applied in the No Name Creek valley and within
23 the total irrigable lands of the Colville irrigation
24 project.

25 Q And is the tabulation that you have set forth on

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Colville Exhibit 24-2 -- 24-1, correct, to your personal knowledge?

A Yes, it is. It's correct to my personal knowledge.

Q Now, you referred to -- did you compare your determinations with any particular investigations that have been made by other official sources in --

MR. SWEENEY: Just a moment.

THE COURT: Mr. Sweeney.

MR. SWEENEY: That hasn't been admitted.

MR. VEEDER: I'm just asking the question.

MR. SWEENEY: Are you still establishing --

THE COURT: Are you identifying?

MR. VEEDER: This is part of the -- well, I will make an offer, then, on 24-1.

MR. SWEENEY: Okay.

THE COURT: Mr. Sweeney.

MR. SWEENEY: Could I see that?

MR. VEEDER: Go ahead and take a look at it.

MR. SWEENEY: Mr. Veeder, sometime ago you gave us a list that looks fairly similar. I would like to know is it --

MR. VEEDER: All right.

MR. SWEENEY: But it was marked preliminary and I don't know.

1 Q (By Mr. Veeder) Is that the same?

2 A It is precisely the same.

3 MR. VEEDER: May I approach the witness,
4 Your Honor.

5 THE COURT: You may.

6 (Discussion between Mr. Veeder
7 and Mr. Watson.)

8 THE COURT: Does anybody wish to voir dire
9 on 24-1?

10 MR. SWEENEY: The Government does not desire
11 to, and I will hand back the proposed exhibit to Mr.
12 Watson.

13 THE COURT: The State?

14 MR. MACK: Yes, Your Honor.

15 THE COURT: You may.

16

17 VOIR DIRE EXAMINATION

18 BY MR. MACK:

19 Q Mr. Watson, you stated a number of elements that you
20 took into account in determining the irrigable acreage
21 figures on that exhibit. Is that including soil,
22 particular soil characteristics, that sort of thing;
23 is that correct?

24 A Is it correct that I stated that?

25 Q Yes.

1 A Yes.

2 Q Are you a soils engineer or any type of soil scientist?

3 A I am not.

4 Q Did you have to rely on somebody else's judgment in
5 order to take that factor into account?

6 A I did.

7 Q And whose judgment did you rely on?

8 A Mr. Casmark's.

9 Q His figures are reflected, then, in this exhibit, or
10 his work I should say, is reflected in this exhibit.

11 A To a very minor degree, yes.

12 Q Okay, did you alter the work he gave you that went
13 into this exhibit before it went into the exhibit,
14 or did you simply take his work and plug it into
15 your irrigable acreage figure?

16 A No, I did not simply do that, Mr. Mack. I carefully
17 reviewed the information that Mr. Casmark had
18 developed and, although I am not a soil scientist,
19 certainly as a civil engineer I have a very close
20 acquaintance with different kinds of soil properties
21 and on examination of Mr. Casmark's material, I was
22 very well satisfied that there was no reason to alter --

23 Q That is really what I was interested in, and then you
24 took into account the precipitation figures, and that
25 forms an element of the analysis which produced these

1 figures on the exhibit; is that correct?

2 A Yes, sir.

3 Q From the Omak station?

4 A Omak II Northwest.

5 Q Omak II Northwest, and do you have any doubt, do you
6 have any reason to doubt the reliability of those
7 figures?

8 A I have no reason to doubt reliability of that data.

9 Q And you said there was an element of the types of
10 crops that went into the final figures shown here.
11 Is there any documentary thing that shows what types
12 of crops, or will there be an exhibit that will show
13 which types of crops entered into the equations that
14 produced these figures?

15 A I don't think there is an exhibit on that, Mr. Mack,
16 just oral testimony.

17 Q Well, can you briefly state?

18 A Alfalfa.

19 Q Is that the only crop that affected, that was
20 considered in coming up with these figures?

21 A That is the only crop we have in production.

22 Q Well, I will ask the question again, was that the only
23 crop that went into your work in coming up with
24 these figures?

25 A Yes, that is the only crop reflected in these figures.

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MR. VEEDER: I can ask a question.

Why did you use alfalfa, Mr. Watson?

THE WITNESS: That is the crop we have in production.

MR. VEEDER: And how does that relate from the standpoint of water requirements of the other crops normally raised?

THE WITNESS: It is a higher water requirement than most other crops.

Q (By Mr. Mack) Mr. Watson, you also said that some data used in coming up with your figures for consumptive use came from the State of Washington in its central Washington experimental station. Were those figures derived from any published study? From where did you derive those figures?

A Those figures were derived from published study.

Q Would you know the title of that?

A The title of the document is Circular No. 512, and I'm not sure what the title is.

Q Do you know who publishes that?

A Washington State University.

Q Was there any alteration made of the precipitation figures taken from the Omak II station before these figures were entered into your work that produced these figures in the exhibit?

1 A Absolutely none.
2 Q Does that affect the accuracy of your irrigable
3 acreage estimates in this exhibit, that is to say,
4 the fact that you did not alter the Omak precipitation
5 records?
6 A No.
7 Q There was no need to make any correction in them for
8 the conditions in the No Name Creek Valley?
9 A No.
10 Q Thank you.

11 THE COURT: Mr. Price.

12
13 VOIR DIRE EXAMINATION

14 BY MR. PRICE:
15 Q You relied on the efficiency of the system. What
16 efficiency figure did you use, Mr. Watson?
17 A What efficiency figure did I use?
18 Q Right, of the system.
19 A I used several efficiency figures, Mr. Price, depending
20 on the type of irrigation that would be undertaken.
21 Q How are those several figures reflected in this
22 proposed exhibit, Mr. Watson?
23 A The efficiencies are reflected in this exhibit to the
24 extent that the consumptive use of the crop is
25 increased, depending on the amount of water that is

1 required for diversion to supply that consumptive use
2 at the crop.
3 Q Right. We know that the efficiency is how much more
4 water you have to put on the land so the crop can use
5 it.
6 A Yes, sir.
7 Q Now, there is a figure that is used in calculating
8 that efficiency, 65 percent, 70, 75 percent. I would
9 like to know what figure, if any, you used in
10 calculating these figures on this exhibit.
11 A I used a different efficiency depending on the
12 allotment and the particular soil type that exists
13 on that allotment.
14 Q That figure is not reflected on this exhibit, however;
15 is it?
16 A The figure does not appear on the Colville Exhibit
17 24-1.
18 Q Can you give that? Can you give those figures to us?
19 A I can. I'm not prepared at the moment to do that.
20 MR. PRICE: One further question, Your
21 Honor.
22 Q Mr. Watson, this exhibit also talks about calibrations
23 from rill irrigation at the top of the exhibit; does
24 it not?
25 A Not calibration.

1 Q It talks about rill irrigation computation at the
2 top; does it not?

3 A Yes, it does.

4 Q And there are no lands under the Colville project that
5 are currently rill irrigated; is that correct?

6 A There are currently no lands under rill irrigation.

7 Q And the only relevant figures at this point are
8 sprinkler irrigation which is the system that is
9 employed; is that not correct?

10 A I don't know that that is the only relevant figure,
11 Mr. Price.

12 MR. PRICE: Your Honor, I would ask that
13 the rill irrigation figures be excluded, that the
14 exhibit be admitted without reference to the rill
15 irrigation and that before it is admitted, that we
16 have computed the efficiency figure of the systems
17 for each of the allotments, as I think that is
18 important in terms of making any validity to the
19 exhibit, Your Honor.

20 THE COURT; Well, I'm going to deny the
21 motion. However, on cross-examination you are going
22 to be able to go into the efficiency and perhaps
23 during the noon recess he can get those figures to-
24 gether.

25 THE WITNESS: Yes, sir.

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THE COURT: And the second part of your motion, I don't think it's irrelevant as to what potentially might be some rill irrigation. The record shows that there is irrigable lands which are not yet under irrigation and I can't foretell whether that is going to be sprinkler or rill irrigation, so I think the relevancy is still there.

MR. VEEDER: I thank you, Your Honor. We feel, and I certainly would look at Mr. Walton's property in the same light, that we cannot possibly, on each acre of land, be committed to use sprinkler systems in perpetuity. That is why we put that in there.

THE COURT: Any other inquiry on the exhibit? 24-1 will be admitted.

(Colville Exhibit No. 24-1 admitted.)

DIRECT EXAMINATION CONTINUED

BY MR. VEEDER:

Q I hand you, Mr. Watson, the Exhibit 24-2 and ask you to state into the record what is set forth on that exhibit.

A Colville Exhibit 24-2 is a representation of the

1 irrigation water requirements for the presently
2 irrigated lands of the Colville irrigation project,
3 and by presently, I mean the irrigated lands, the
4 lands that were irrigated at the close of 1977
5 irrigation season.

6 Again, a distinction is made on this exhibit
7 between rill irrigation and sprinkler irrigation.

8 Q Now, are those calculations that appear on 24-2
9 correct to your personal knowledge and based upon
10 your opinion, Mr. Watson?

11 A Yes, the figures that appear on Colville Exhibit
12 24-2 are correct to my personal knowledge.

13 Q And what is part of this information that you
14 utilized from the standpoint of soil classification
15 and data? Was that done under your direction by
16 Mr. Casmark?

17 A Yes, it was.

18 Q And did you know those to be correct based upon your
19 background and personal knowledge and investigation,
20 working with Mr. Casmark on those?

21 A Based on my own personal knowledge and investigations,
22 I felt that the work by Mr. Casmark was very
23 reasonable and correct.

24 Q And did you correlate that with the 24-1 that has
25 already been admitted in evidence?

1 A Yes, I did.

2 MR. VEEDER: We make an offer on Exhibit 24-2,
3 Your Honor.

4 THE COURT: I assume the same question is
5 being raised as to this exhibit because it relates
6 only to presently irrigated lands whereas 24-1 relates
7 to irrigable lands, but does Counsel wish any further
8 inquiry on this?

9 MR. SWEENEY: We have none.

10 MR. MACK: One additional one.

11

12 VOIR DIRE EXAMINATION

13 BY MR. MACK:

14 Q Is there a period of time, Mr. Watson, for which
15 figures were obtained that were necessary to compute
16 the figures that are now in this exhibit, 24-2?

17 A Yes, sir.

18 Q What period of time was used to come up with the
19 figures used by Mr. Casmark, for example?

20 A Mr. Casmark made no determination on the basis of
21 time.

22 Q He just made the soils determination, again?

23 A That is something that is there for all time.

24 Q Which temporal calculations were made?

25 A Would you define your term.

1 Q Which calculations relied on time?
2 A The calculations of consumptive use.
3 Q And who made those calculations?
4 A I made the calculations.
5 Q And for what period of time were the figures used?
6 A 1948 through 1977.
7 Q 19 what -- 48?
8 A Yes, sir.
9 Q Continually -- did you use every year in that?
10 A Yes.
11 Q Pardon me?
12 A Yes, I did.
13 Q And where did you obtain records for the years
14 preceding the development of the Colville irrigation
15 project?
16 A I received records of climate from the United States
17 Weather Bureau, from its station in Omak, two miles
18 northwest of Omak.
19 Q Was a consumptive use figure only reliant on the
20 precipitation figures obtained from the Omak station
21 or was there some other element that had to go into
22 it?
23 A There was another element.
24 Q What was that?
25 A Temperature.

1 Q The only two elements that you used to come up with
2 your consumptive use figure?
3 A No, those were not the only two.
4 Q What other elements was there?
5 A Latitude.
6 Q Any others?
7 A The crop coefficients as published by the Washington
8 State University in Circular 512.
9 Q Just so that I am clear on this, did that apply also
10 for the years after the beginning of the Colville
11 irrigation project? Were those elements taken into
12 account?
13 A Yes, yes.
14 Q So, your consumptive use figure is based on those
15 general elements which you used in preparing the
16 previous exhibit, 24-1, and not necessarily on the
17 actual use of water during the years covered, 1948
18 to 19 -- whatever it was, '77.
19 A Let me make this very clear, Mr. Mack. The consumptive
20 use figures were based on climatic conditions that
21 prevailed as measured at the Omak II Northwest Weather
22 Station for the period 1948 through 1977, and the
23 consumptive use information that is reflected in this
24 exhibit is an average of the consumptive use computa-
25 tions that were made on a yearly basis during that

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period.

In other words, there were times during that period that the consumptive use was far higher than that reflected in Colville Exhibits 24-1 and 24-2. There were also periods when the consumptive use, there were years that the consumptive use was lower because of change in precipitation and temperature.

Q Just to clear -- I just have one more question. I think this will clarify this. Is this going into the record? I think it ought to be clarified.

In your Exhibit 24-2 and your Exhibit 24-1, is it correct to say that they differ only to the extent that 24-2 applies the same calculations that you make for 24-1, but only to the lands presently under irrigation which is as of 1977, whereas 24-1 applies to all of the lands that you have concluded are capable of being irrigated?

A Yes, that is correct.

THE COURT: Mr. Price.

VOIR DIRE EXAMINATION

BY MR. PRICE:

Q The figures per acre, are those theoretical figures or are those actual figures based on your use over the past couple of years?

1 A These are figures that have been weighed in view of
2 the actual water requirement demonstrated in the 1977
3 irrigation season. Consideration has been made in
4 reviewing the determination of water requirements as
5 presented on these exhibits of the actual water use
6 in 1977.

7 Q Does that mean, then, that, for instance, the water,
8 the crop consumptive figures that may have been
9 contained in Circular 512 from the Washington State
10 University might have been adjusted as reflected on
11 Exhibit 24-2 as a result of your actual experience?

12 A They were not adjusted.

13 Q Is there anything in here that has been adjusted,
14 based on actual experience versus the theoretical
15 calculations?

16 A I resist, to some degree, your depiction of these
17 as theoretical, Mr. Price, because the consumptive
18 use estimates that are reflected in this exhibit
19 were very carefully checked with the actual measurement
20 of consumptive use by the Washington State University
21 at its central Washington experimental station near
22 Prosser, Washington.

23 Q Maybe I can shorten this, Mr. Watson.

24 THE REPORTER: Mr. Price, I can't see you;
25 I can't hear you.

1 Q (By Mr. Price) Maybe I can shorten this. Can you
2 tell me if there has been an adjustment in these
3 figures based on actual use, what that judgment might
4 have been.

5 A There has been no adjustment.

6 Q Thank you.

7 THE COURT: Tribes' 24-2 is admitted.

8 (Colville Exhibit No. 24-2
9 admitted.)

10 MR. VEEDER: May I approach the witness,
11 Your Honor.

12
13 DIRECT EXAMINATION CONTINUED

14 BY MR. VEEDER:

15 Q I hand you Exhibit 24-10 and ask you to state into
16 the record what is represented by the exhibit, and
17 under whose preparation it is. Is it your own
18 preparation, Mr. Watson?

19 A Colville Exhibit 24-10 was prepared solely by myself.

20 Q And of what is it reflective, Mr. Watson?

21 A The exhibit is a summary of 1977 water use in the
22 No Name Creek basin.

23 Q And would you state into the record the source of the
24 information that you utilized in setting forth that.

25 A The source of the information was exclusively the

1 surface water measurements of the U.S. Geological
2 Survey on No Name Creek as well as the records checked
3 by the U.S.G.S. of the amount of water pumped from
4 each of the production wells in the No Name Creek
5 basin.

6 Q And that is correct to your personal knowledge; is that
7 right?

8 A And the information presented on Colville Exhibit 24-10
9 is correct to my personal knowledge.

10 MR. VEEDER: I make an offer of 24-10, Your
11 Honor.

12 THE COURT: Mr. Sweeney.

13 MR. SWEENEY: Could I see that, Your Honor.

14 MR. VEEDER: I thought you had one.

15 MR. SWEENEY: No.

16 MR. VEEDER: Go ahead.

17 THE COURT: Mr. Sweeney?

18 MR. SWEENEY: I have no questions, thank
19 you.

20 THE COURT: State?

21

22 VOIR DIRE EXAMINATION

23 BY MR. MACK:

24 Q Do you have a copy of this, Mr. Watson?

25 A Yes, I do.

1 Q Thank you.

2 Were all of the figures on this exhibit obtained
3 from the U.S.G.S.?

4 A No, sir, not all the figures on the exhibit were
5 obtained by the U.S.G.S.

6 Q Could you tell the Court which ones were and which
7 ones weren't.

8 A The figures that appear on the exhibit that were not
9 obtained from the data of the U.S.G.S. were the 1977
10 acres, as shown in Column 2 on the exhibit, and I
11 assume that you are referring to the numerical
12 values that appear here. The figures in Column 3,
13 water use in acre-feet, were based on measurements
14 of the U.S.G.S. of surface water and water being
15 pumped from the wells.

16 Q But those are calculated by you; weren't they?
17 I don't know. Do you know who calculated those in
18 Column 3?

19 A The figures in Column 3 are to some degree calculated
20 to separate things by allotment, but, for example,
21 the 254.8 is simply a measurement of the amount of
22 water being pumped from the wells that serve the
23 upper allotments.

24 Q Who came up with those measurements, I guess is what
25 I want to know.

1 A The U.S. Geological Survey.

2 Q How about the fourth column? Those are based on
3 calculations; aren't they?

4 A Yes, the fourth column is simply calculation of the
5 amount of water per acre and it is obtained by
6 dividing the third column by the first column.

7 Q And did you do that?

8 A I did that, yes.

9 Q And the fifth column is average annual sprinkler
10 water requirements; correct?

11 A Yes, sir.

12 Q Who came up with that figure?

13 A I determined those figures.

14 Q Based on actual use or something else?

15 A The information that is presented in Column 5 of the
16 Exhibit 24-10 is consistent with Colville Exhibits
17 24-1 and 24-2. The amount of water requirement per
18 acre that is shown on Colville Exhibit 24-10 is
19 consistent with the previous exhibits. The exception
20 is the amount of water requirement for grass.

21 Q And you indicate that by an asterisk; don't you?

22 A Yes, I have.

23 Q What I'm interested in, then, Column 5 is not based
24 on actual use. It is based on the same elements
25 which were plugged into exhibits 24-1 and 24-2.

1 A Yes, it is provided for comparison with Column 4.

2 Q And the figures for the Lahonton fishery were
3 obtained from whom?

4 A The figures for the Lahonton fishery were obtained,
5 based on my computations of the amount of water that
6 was delivered to the Allotments 1901 and 1903 for
7 the purposes of irrigation and the Lahonton fishery
8 and as measured by the U.S. Geological Survey.

9 Q And those figures, are they not figures representing
10 water actually delivered but not necessarily waters
11 actually necessary for the use described in this
12 exhibit?

13 A Oh, no. They are necessary for the use there.

14 Q How did you -- well -- that is your opinion, and that
15 is reflected in this exhibit; correct?

16 A That is reflected in this exhibit as the actual
17 amount of water that was used for those purposes.

18 Q I think I understand.

19 THE COURT: Mr. Price.

20

21

VOIR DIRE EXAMINATION

22

BY MR. PRICE:

23

Q Mr. Watson, Column 2 lists your judgment of acreages
24 under irrigation on the Walton property; doesn't
25 it?

1 A Yes, it does.

2 Q That is not an actual figure; is it?

3 A It is an actual figure, Mr. Price.

4 Q You have got Mr. Walton down with irrigating and
5 surviving, apparently, on 50 acres, supporting his
6 dairy herd; is that correct?

7 A During 1977.

8 Q Mr. Watson, isn't it true that you and I have had
9 a long-standing dispute, and that is one of the
10 issues in this case, as to how many acres is being
11 irrigated by Mr. Walton?

12 THE COURT: Counsel, that is a cross-
13 examination question.

14 MR. PRICE: Your Honor, this is a summary
15 of evidence that they have not established or laid
16 a foundation for, and I am seriously concerned that
17 they have assigned consumptive uses of water to
18 Walton's land which --

19 THE COURT: Counsel, this exhibit, as I
20 understand it anyway, is merely illustrative of his
21 opinion on these matters.

22 MR. VEEDER: That is right.

23 MR. PRICE: Yes, Your Honor, but the opinion
24 has to be based on a foundation.

25 THE COURT: You go into that on

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cross-examination.

MR. PRICE: May I pursue voir dire?

THE COURT: You may pursue voir dire.

Q (By Mr. Price) Mr. Watson, you have assigned water use in acre-feet to Walton's S-25 (sic), Walton's S-2371, and Walton's H-894 with respect to water uses in Column 3 with respect to each of those tracts of land. You don't know what amount of water went to the respective tracts of land in the Walton property; do you?

A Yes, I do.

Q How did you calibrate that?

A I don't understand your question.

MR. VEEDER: Once again, I think this is cross-examination.

THE COURT: No, I think this is all right. He is trying to establish what that figure is supposed to represent, the acreage.

A I didn't understand your question.

Q How did you calculate, for instance, that 152.5 acre-feet were used by Mr. Walton on his property designated as S-525.

A That is the amount of water that was pumped from the Walton new irrigation well in 1977 as provided by the records of the U.S. Geological Survey.

1 Q That is the amount of water that was pumped?

2 A I have not adjusted that figure. That is -- the

3 only adjustment that I have made is not an adjustment,

4 but just a conversion of the total amount of gallons

5 recorded by the U.S. Geological Survey as having been

6 withdrawn from the Walton irrigation well during

7 1977, and I have converted the gallons to an acre-feet.

8 Q Do you know why --

9 A Quantity.

10 Q Do you know whether the water withdrawn that was

11 pumped was applied for irrigation or used for other

12 consumptive uses, such as dairy.

13 A I know that the -- that a very substantial amount of

14 the 152.5 acre-feet had to be used for irrigation,

15 that a dairy could not consume very many acre-feet

16 of water.

17 Q What you're saying is, you don't know.

18 A I do know, based on discussion with you in August in

19 your office in 1977 that Mr. Walton was using water

20 from the Walton irrigation well for domestic purposes

21 and that would include his dairy, I'm sure.

22 Q So, this 152.5 doesn't reflect water that was solely

23 put for irrigation; does it?

24 A Mr. Price --

25 Q Mr. Watson, that can be answered yes or no.

1 A It does not.

2 Q As to Walton S-2371, you do not allocate the amount
3 of acre-feet applied to that particular tract; do
4 you Mr. Watson?

5 A I do not.

6 Q Because you don't know; do you?

7 A All that I am representing on Colville Exhibit 24-10
8 is the amount of water that was used by Mr. Walton
9 for the cumulative irrigation on Allotments 2371 and
10 894. I recognize, as I have displayed on the exhibit,
11 that I have no way to separate the water use on
12 Walton Allotments 2371 and 894, and that that is --

13 Q Where did the combined figure come from then, please.

14 A The combined figure of 115.4 acre-feet is the
15 amount of water that was diverted from No Name Creek
16 as measured by measurement device no. 12 shown on
17 Colville Exhibit No. -- 10, I believe.

18 Q Is that on Mr. Walton's diversion, surface diversion?

19 A Yes, that is Mr. Walton's surface diversion.

20 Q How much of that returned to the creek through the
21 return flow pipe?

22 THE COURT: Counsel, we are now getting
23 back into cross-examination.

24 I might point out, and I think throughout the
25 trial there has been some difficulty with the difference

1 between what I know counsel is used to in the state
2 rules on experts, and the federal rules of evidence.

3 The federal rules of evidence at 705 have
4 considerably and fundamentally changed our old
5 concept of use of experts, and that calls to the
6 Court's attention and the committee notes make it
7 very clear that under the new rule that a witness
8 who is an expert may state his opinion and his reasons
9 without specifying the data on which it is based.
10 That is a matter left for cross-examination.

11 Now, that is entirely different from when we
12 all practiced under the state rule, and that is why
13 I have been constantly cutting you off, Mr. Price,
14 because we do have a different rule here.

15 MR. PRICE: I appreciate that, your drawing
16 that to our attention, but I do want the Court to
17 know that Mr. Watson's answer to that was that he
18 doesn't know the return flow on that, and my
19 objection just --

20 THE WITNESS: I did not state that, Mr.
21 Price.

22 THE COURT: He didn't say that.

23 MR. PRICE: I thought he did.

24 THE COURT: You can go back into that on
25 cross-examination, Mr. Price.

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MR. PRICE: Thank you.

THE COURT: Any other inquiry on 24-10?
24-10 will be admitted.

(Colville Exhibit No. 24-10
admitted.)

DIRECT EXAMINATION CONTINUED

BY MR. VEEDER:

Q Mr. Watson, in calculating the water requirements as reflected on Colville Exhibits 1, 2 and 10, and what you perceive to be, and as an expert made a determination as to what are reasonable water requirements, both as to irrigable lands and the present irrigated lands, have you had an opportunity to contrast or compare those figures with the figures set forth in what we refer to as the Cline Report, Exhibit No. 1 of the United States, in this case?

A Yes, I have.

Q And I'm going to hand you a copy of that Exhibit No. 1, refer to pages 27 and 28, under the heading of recharge --

MR. VEEDER: May I approach the witness,
Your Honor.

A You are referring to U.S. Exhibit No. 1?

1 Q That is right, and would you state into the record --

2 MR. SWEENEY: What page are you on Counsel?

3 MR. VEEDER: 27.

4 Q Will you state into the record the difference that
5 you determined in regard to the water requirements,
6 and those are as reflected in Mr. Cline's report,
7 that is, U.S. Exhibit No. 1.

8 A Yes. The difference -- first, Mr. Veeder, I should
9 read, I believe, from the U.S.G.S. report, to
10 establish --

11 Q By all means.

12 A On page 27, paragraph 2, of the U.S.G.S. report,
13 U.S.A. Exhibit No. 1, the following statement is
14 made:

15 "The quantity of evapotranspiration
16 loss was obtained by applying the Blaney-
17 Criddle formula (U.S. Department of
18 Agriculture, 1970) to calculate the con-
19 sumptive use for alfalfa and grass.
20 Monthly water surplus or deficit was
21 obtained by subtracting the monthly
22 precipitation (table 1) from the monthly
23 consumptive use."

24 Now, this is the sentence that we are getting
25 to. The water deficit during the period late April

1 to mid-October, 1976, was estimated to have totaled
2 22.1 inches for alfalfa and 20.0 inches for hay and
3 grass.

4 Q How does that contrast with your calculations, Mr.
5 Watson, and if you --

6 A My calculations of the average consumptive use for
7 alfalfa in the No Name Creek valley, my computations
8 are 34 inches of consumptive use per year. Therefore,
9 a difference of 12 inches is evident between the
10 figures determined by myself and the figures determined
11 by Mr. Cline.

12 Q Have you had any occasion to correlate your
13 calculations with the calculations of any other
14 source, related to the Omak area?

15 A Yes, I have.

16 Q And would you state into the record what that source
17 might be?

18 A That source is the Circular No. 512 prepared by
19 Washington State University.

20 Q And how does that comport with the numbers upon which
21 you relied, Mr. Watson?

22 A It comports very well.

23 Q And when you say "very well," --

24 A The computations, the estimates of consumptive use
25 prepared by Washington State University in Circular

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512, are given on a certain page of that document as 34 inches per year for the town site of Omak.

Q And did you utilize that to compare, contrast with your number?

A Yes, I did.

MR. VEEDER: Your Honor, it may be helpful to the Court, these haven't been offered, but the data referred to by Mr. Cline is Irrigation Water Requirement, Technical Release No. 21. The State of Washington has station Circular 512, November, 1969, entitled Irrigation Water Requirements, Estimates for Washington.

It might be helpful to the Court if I put those in because there is such a sharp contrast between the calculations by Mr. Cline and those by Mr. Watson, and I think that I would just put them in, if I --

THE COURT: You may have them marked for identification.

MR. VEEDER: And I put them in and the series would be 24-11, I think.

THE COURT: No, because we have already pre-marked and we have trouble with these numbers. I'm going to go to the end of the numbers which I think is 36; is it not?

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MR. VEEDER: Yes.

THE COURT: We will mark them as Exhibit 36 for the Tribe.

MR. VEEDER: Irrigation water requirements, that is the technical release, 21, and then the Irrigation Water Requirements, Estimated for the State of Washington.

MR. SWEENEY: Maybe we could take the recess and give us a chance --

THE COURT: Yes, because I want to look at those, so we will take the luncheon recess at this time.

Gentlemen, I have scheduled at 1:00 a criminal matter for about a half an hour. However, I am advised that the fog situation is such that maybe Counsel hasn't been able to get here.

I want to suggest that although I am recessing this case until 1:30, you might kind of want to collect things together on your desk, because we may have counsel here on a criminal matter at 1:00. I can't tell until I find out whether the planes are landing this morning, but this case will be recessed until 1:30.

THE CLERK OF THE COURT: All rise. The Court is recessed until 1:30.

(Luncheon recess is taken.)

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Afternoon Session

February 10, 1978 1:30 P.M.

MR. SWEENEY: Your Honor.

THE COURT: Mr. Sweeney.

MR. SWEENEY: I have a request to make.

Mr. Cline would like to leave about 3:00 to catch a plane. He will be back when we reconvene, but we hope it will be all right for him to do so.

THE COURT: Sure. Did somebody raise the question that they wanted to establish now rather than at 4:30 whether we are going to be coming back to finish the trial?

MR. BURCHETTE: Your Honor, we are fine with 4:30. That is fine with us. It probably would be a good time to do it.

THE COURT: It's immaterial to me. I don't know whether we are going to change much between now and 4:30 as to what our prognosis is for requiring additional time.

MR. BURCHETTE: I think the State's suggestion is that by about 4:30 we will have been through enough evidence that we will probably be ready for a break, so maybe we ought to hold it at 4:30.

THE COURT; Very good. You may proceed.

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MR. PRICE: Your Honor, before we proceed.

THE COURT: Yes.

MR. PRICE: I don't think, in connection with my last voir dire which turned out to be cross-examination, that I made a record of objecting to that exhibit, and I would like it in the record.

THE COURT: The record will show the objection.

MR. PRICE: Thank you.

MR. VEEDER: The record should also show that we delivered to counsel the Project Efficiency of the Colville water requirement summary, the data that was being interrogated about, we delivered that to all counsel and I haven't offered it in evidence. I didn't think it was necessary. I think the cross-examination from it --

MISS ECKERT: Could you speak up, Mr. Veeder, please.

MR. VEEDER: Yes. I just stated -- normally I speak louder, I'm sorry.

What we have here is the calculated water requirement showing project efficiency and related data concerning which Mr. Price had gone on voir dire. I think everybody has a copy of this. Do you? You don't have a copy of it?

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MR. MACK: No.

DIRECT EXAMINATION CONTINUED

BY MR. VEEDER:

Q Mr. Watson, we were interrogating in regard to, I guess, the differences between your calculated water requirements and those that are set forth in Exhibit No. 1 of the United States, what we have referred to now as the Cline Report.

A Yes, sir.

Q And have you, during the recess, given further consideration to the differences between your calculations of water requirements on the Colville irrigation project and those assigned by Mr. Cline to the same area?

A Yes, I have given consideration to that.

Q And I hand to you Colville's Exhibit 36-1 and 36-2 and ask you to state into the record what those documents are, please.

A 36-1 is titled Irrigation Water Requirement, Technical Release No. 21, prepared by the United States Department of Agriculture, Soil Conservation Service, Engineering Division, April 1967, revised September, 1970.

Q Now, is that the document to which Mr. Cline made

1 reference on page 27 of the U.S. Exhibit No. 1?

2 A Relying on the reference that Mr. Cline cited in the
3 U.S.G.S. report 1978, this is the document.

4 Q And have you had occasion to compare at least the
5 formula set forth therein as to calculating water
6 requirements?

7 A To compare the formula, Mr. Veeder?

8 Q To compare the formula that you have used in
9 assigning water requirements for the Colville
10 irrigation project?

11 A Yes, I have.

12 Q And have you an opinion as to the applicability of
13 the data set forth therein to this area?

14 A The formulas used by myself in calculating the
15 water requirements for the Colville irrigation project
16 and the formula used by Mr. Cline, are the same. The
17 difference between the water requirements determined
18 by Mr. Cline and by myself are predicated on the use
19 of data in applying the formula, rather than in the
20 formula itself.

21 Q And what is that difference?

22 A The difference is that the crop coefficient as defined
23 by Technical Release No. 21, Exhibit 36-1, are
24 developed on a national scale based on measurements
25 of evapotranspiration across the United States and do

1 not reflect local conditions pertinent to the State
2 of Washington.

3 Q Now, for the record, I ask you to read from United
4 States Exhibit No. 1, page 28, the water duty as
5 assigned to this area by Mr. Cline, if you would,
6 please.

7 A Mr. Cline states on page 28:

8 "The water deficit for 1977 during
9 April-September was estimated to have
10 totaled 26.7 inches for alfalfa and 21.6
11 inches for hay and grass."

12 Q Now, how did your calculations compare with those,
13 Mr. Watson?

14 A My calculations of the consumptive use for alfalfa
15 for the Colville irrigation project in 1978 are
16 approximately 38 inches.

17 Q Just for the record, the difference between the two?

18 A The difference is 12 inches.

19 Q Have you an opinion -- before I go further, have you
20 looked at other local data to compare your calculations
21 with, for example, what the Washington University has,
22 Washington State University has utilized for the same
23 area here?

24 A Yes, I have.

25 Q And how did you state those compare?

1 A The calculations that I performed for the Omak area
2 compared very closely with the calculations prepared
3 by Washington State University, and specifically --

4 Q Did you use the same formula that was generally used?

5 A I used the same formula that Washington State
6 University used.

7 MR. VEEDER: I would like to offer in
8 evidence the exhibits marked 36-1 and -2, Your
9 Honor, if I may, and all counsel have looked at
10 those.

11 THE COURT: Any objection to the exhibits?

12 MR. SWEENEY: No objection.

13 MR. PRICE: No objection.

14 MR. MACK: Your Honor, my only question
15 would go to this: the Exhibit 36-1 which is Technical
16 Release No. 21, contains all kinds of text and
17 narrative and conclusions. If I understand it
18 correctly, it is being offered simply for the use
19 of those formulas in there, or formula, which Mr.
20 Watson used in his calculations.

21 MR. VEEDER: That is correct.

22 MR. MACK: Is that correct?

23 THE WITNESS: That is not correct.

24 MR. VEEDER: It is not correct?

25 THE WITNESS: Would you restate that, Mr.

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Mack?

MR. MACK: Well, Mr. Veeder would be the one who could tell us what he is offering.

MR. VEEDER: The only offer I was making is to have this witness identify the formula that was used in 21 and relied upon by Mr. Cline in coming up with the 26.7 inches of consumptive use. That is the only reason I offered it.

THE WITNESS: Yes, sir, I'm sorry. That is correct.

THE COURT: Well, it will be admitted for that purpose only, then.

MR. VEEDER: That is the only purpose, Your Honor.

MR. MACK: Thank you.

THE COURT: 36-1 and 36-2 are each admitted.
(Colville Exhibits 36-1 and 36-2 admitted.)

Q (by Mr. Veeder) Now, would you state into the record, utilizing your calculations as to water requirements, what would be the effect upon Exhibit No. 3, the water budget, set forth on that, and would you step to that exhibit and state into the record the difference between your numbers and those set forth in the water budget by Mr. Cline, if you would, Mr.

1 Watson, please.

2 A As I stated, the difference in water use, in
3 consumptive use, per acre during 1977 between Mr.
4 Cline's report and my determinations was 12 inches.

5 THE COURT: Mr. Watson, I can't see the
6 bottom part. Can you put it up on one of these
7 easels?

8 THE WITNESS: Yes, sir.

9 THE COURT: Thank you.

10 Q (By Mr. Veeder) Would you start again, please.

11 A As a predicate to this we are referring to the quantity
12 labeled by Mr. Cline as IL = Irrigation Leakage
13 (excess water) to groundwater reservoir.

14 Now, the number that Mr. Cline uses during the
15 1977 irrigation season, April to September, is given
16 at the bottom of Exhibit 1 of the U.S. as 104 acre-
17 feet.

18 Q That is 3, U.S., I believe, Mr. Watson.

19 A 3. The Exhibit is U.S.A. 3.

20 Now, as I stated previously, the difference
21 between Mr. Cline's determination and the determination
22 made by myself was 12 inches during the 1977 irrigation
23 season and both Mr. Cline and myself recognize that
24 95 acres were irrigated on Allotments 892 and 526 in
25 the 1977 irrigation season, so we are both using the

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same number of acres and we had provided Mr. Cline with that acreage. So, the difference in the consumptive use for the 95 acres is 95 acre-feet, one foot for 12 inches times the 95 acres, is 95 acre-feet.

Q And what does that do to the equation then?

A The effect is that 104 acre-feet is evaporated.

Q And what is it now, after the evaporation?

A And that number would become 9 rather than the 104.

MR. VEEDER: You may cross-examine.

MR. SWEENEY: You are completed with this witness?

MR. VEEDER: Yes.

THE COURT: All right, who wants to start? Mr. Price, do you want to start cross-examination?

MR. PRICE: Not really, but I will. I think I'm in that position, Your Honor.

CROSS-EXAMINATION

BY MR. PRICE:

Q Mr. Watson, there have been lots of charts and lots of graphs and I'm not a hydrologist. What I'm primarily interested in is attempting to elicit for this Court's benefit the amount of water that is in this aquifer that is available for use, beneficial

1 application.

2 You have used a term from time to time called a
3 "firm annual water supply."

4 A Yes, sir.

5 Q Would you define that for me, please.

6 A The firm annual water supply is the amount of water
7 that can be used on a year to year basis without
8 significant shortages in water supply for beneficial
9 purposes that would reduce the production of crops
10 significantly.

11 Q Taking in -- what considerations do you plug into
12 that firm annual water supply? Does that assume
13 that, for instance, No Name Creek is to continue
14 with a certain flow throughout the year for use
15 down below in 901, 903, or not?

16 A Does that assume that No Name Creek --

17 Q Is the firm annual water supply, is that computed
18 so as to maintain a surface flow in No Name Creek?

19 A Not necessarily, Mr. Price.

20 Q Okay. Does that firm annual water supply of
21 500 -- is it 50?

22 A 550 is correct.

23 Q Does that assume that there will be no surface flow
24 in No Name Creek?

25 A No, it does not assume that there will be no surface

1 flow.

2 Q All right. Tell me what it means in terms of the
3 effect on the surface flow of No Name Creek.

4 A It means that in the No Name Creek basin under the
5 facilities that currently exist, that there would be
6 less natural flow in No Name Creek than there has
7 been in the past. It does not mean that there would
8 be no natural flow in No Name Creek at all times.

9 Q Under the facilities that presently exist.

10 A And under facilities that could exist to irrigate
11 the remaining acreage to bring the total project to
12 228.4 acres.

13 Q Could the facilities be altered in any way, Mr.
14 Watson, so as to procure water for the allotments
15 on Walton's land that would affect No Name Creek
16 differently and still withdraw the same amount of
17 water from the aquifer?

18 A From Walton's land?

19 Q From all of the property.

20 A Could water be attained differently?

21 Q Yes. Could the system be rearranged, pumps relocated,
22 wells relocated, alternated, so as to use, consume the
23 same amount of water, but have a different effect on
24 the flow of No Name Creek?

25 A Well, my opinion, Mr. Price, is that the arrangement

1 of the facilities in No Name Creek basin as they
2 exist is very adequate and very well prepared and
3 certainly, I don't believe that any modification
4 is necessary, and that the kinds and types of modifica-
5 tions that have been proposed by the U.S. Geological
6 Survey would very definitely lead to a disaster in the
7 No Name Creek basin at some point in time.

8 Q Mr. Watson, I don't think that was my question, and
9 I will try and be specific so as not to mislead you.

10 My question is not whether you think the existing
11 system is adequate or satisfactory, but whether or not
12 it could be altered so as to remove the amount of
13 water that is now being removed without seriously
14 affecting the water table or the flow of No Name
15 Creek.

16 A Without seriously affecting the water table?

17 Q Yes.

18 A No.

19 Q Okay. You disagree with Mr. Corke that if you had
20 it to do over again he would locate the southernmost
21 Tribe well further away from Walton's irrigation well.

22 MR. VEEDER: Object to the question. That
23 is not what Mr. Corke said, Your Honor.

24 MR. PRICE: I think he mentioned it.

25 THE COURT: I thought that is what he said,

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but go ahead and clear it up here .

MR. VEEDER: Mr. Corke said it might have been that on a second look you might have changed Colville No. 2 to some point, but he also said on redirect that it wouldn't have made any difference in regard to the quantity of water that is available.

THE COURT: No, you may ask the question. I think he made a statement along that line at least.

Q (By Mr. Price) Do you disagree with Mr. Corke in that regard?

A If the context that you're stating that question was properly Mr. Corke's intention, I disagree.

Q Okay. What sources, very simply, did you calculate contribute to the available water supply in the No Name Creek Valley?

A There are two sources of water supply to the No Name Creek valley, and your word for valley may be somewhat different from mine, Mr. Price, but the two sources of water supply to the No Name Creek basin as defined on Colville Exhibit No. 7, for example, the two sources are natural runoff from precipitation and natural infiltration from Omak Creek.

Q And would you outline for us on Exhibit No. 7 -- is that a Plaintiff's exhibit? Can you tell from there?

A It's Colville Exhibit No. 7.

1 Q Would you outline for us on Colville Exhibit No. 7
2 the parameters, perimeters of the precipitation
3 boundary?
4 A Yes, sir.
5 Q That would contribute. I thought that was Exhibit
6 No. 7 right there.
7 A No, this is Colville Exhibit No. 15-2.
8 Q Why don't we just stick with 15-2. It's right there.
9 A Okay. Now if your question is to outline the boundaries
10 of the area that would receive precipitation runoff --
11 Q That would contribute to the valley, to the water
12 supply.
13 A Yes, sir.
14 The area outlined by the heavy dashed blue symbol
15 -- I'm referring to a heavy dashed blue symbol that
16 is approximately a quarter of an inch wide on Colville
17 Exhibit 15-2 -- the area contained within the boundary
18 of this heavy blue symbol which begins at the north
19 end of Omak Lake and runs in a generally northerly
20 direction to the northeast quarter -- excuse me, the
21 northwest quarter of Section 9, and then begins a
22 southern migration through Section, the corner of
23 Section 16, across Section 15 into 22, back around
24 into Section 14, down through Section 23, through
25 Section 26 and then again into the north end of Omak

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Lake after passing through a corner of Section 35 and 34.

The area within that boundary received precipitation that eventually ends up in the No Name Creek basin and is discharged to Omak Lake in a natural state.

Q All right. Specifically, I would like to call your attention to the northwesterly most tip of that boundary which would encompass the Paschal Sherman Indian School and beyond; is that correct?

A Yes, sir.

Q And does not the surface groundslope slope away from the No Name Creek valley in that area?

A Yes, it does.

Q So, what you are saying by incorporating that area, is that precipitation is percolating through the ground into the groundwater and becoming available to No Name Creek as part of the groundwaters?

A I am saying that, Mr. Price, in a natural condition.

Q In a natural condition.

A Yes, sir.

Q Very good. Now, what figure value do you assign to the amount of precipitation that is going to be contributed in this manner to that valley?

A What value of precipitation?

1 Q What amount of water do you assign to this precipita-
2 tion within the boundaries you delineated?
3 A I can give you an estimate of that, Mr. Price.
4 Q An estimate?
5 A Yes, sir.
6 Q All right. Let's have your estimate, please.
7 A In my opinion, the amount of precipitation runoff
8 that is contributed to the No Name Creek basin that
9 becomes a component of the firm water supply is
10 175 acre-feet.
11 Q And how do you compute that, Mr. Watson, please?
12 A I computed that by --
13 Q You can sit down, if you prefer. You may want to
14 stand.
15 A I computed that amount, Mr. Price, by separating
16 the amount of precipitation runoff from the total
17 firm water supply and, as I stated previously, the
18 two components of natural water supply are Omak
19 Creek, the infiltration that occurs naturally, and
20 precipitation runoff. Now, the 175 acre-feet is
21 the difference between what I consider the infiltration
22 from Omak Creek and the natural runoff from precipita-
23 tion.
24 Q What do you consider -- you are arriving at this --
25 may I put it backwards, then. You are calculating

1 some other quantities and then subtracting those and
2 coming up with a figure that you assign to
3 precipitation percolating to the groundwater; is
4 that correct?

5 A Yes, sir.

6 Q And what, again, are the other figures that you are
7 using to get back to this 175 acre-feet?

8 A It's 550 acre-feet is the firm annual water supply.

9 Q Doesn't that incorporate the precipitation, or --

10 A Yes.

11 Q Or is the precipitation in addition to that?

12 A No, the precipitation is incorporated in the 550, so
13 the balance, the difference between the 550 acre-feet
14 and 175 acre-feet is the contribution from Omak
15 Creek.

16 Q Well, I thought you said you computed the amount of
17 precipitation by first starting with two other
18 figures and subtracting those to get to the
19 precipitation. Now you are starting out with the
20 precipitation figure.

21 A No, well, I'm just -- you asked a question with
22 regard to precipitation.

23 Q Right.

24 A And I had to tell you that I derived the precipitation
25 from the total of 550 acre-feet, and a determination of

1 the infiltration from Omak Creek that occurs naturally.

2 Q You can't determine -- Mr. Watson, I suggest you can't
3 arrive at 175 feet by starting with 550 feet which
4 already incorporates the 175 feet; is that not
5 correct?

6 A I think maybe -- let me go ahead and tell you what it
7 did and maybe this will clear this up for you, Mr.
8 Price.

9 Q Well, let me continue my line and then your counsel
10 and come back in that regard.

11 A Okay.

12 Q Apart from precipitation, then, there has to be
13 another quantity assigned and that is from infiltration
14 of Omak Creek; is that not correct?

15 A Yes, sir.

16 Q And what figure do you assign to the amount of water
17 contributed from Omak Creek?

18 A 375 acre-feet.

19 Q All right, would you tell me how you arrive at that
20 375 acre-feet, please?

21 A Yes, the 375 acre-feet was determined by examining
22 all the outflows from the No Name Creek aquifer during
23 a period from February 1, 1977, to April 19, 1977.

24 Q Excuse me just one moment.

25 And what did the outflows tell you about the

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infiltration of Omak Creek and what -- first of all, would you identify the outflow, please.

A The outflows, the outflows during this period from February 1 to April 19, 1977, were natural stream flows as discharged from the spring zone of the No Name Creek aquifer, plus any additional watershed contribution between the No Name Creek aquifer and Mr. Walton's point of diversion. This was the natural runoff from precipitation in that area.

Q February 1 to April 19, 1977, you measured No Name Creek stream flow.

A That is right. That was the total amount of outflow until pumping began which was April 6, 1977, and during the period from April 6, 1977, to April 19, then a component amount of water that was pumped from the No Name Creek aquifer was also included.

Q Let's just stick with this period. How does that outflow relate to leakage from Omak Creek some distance into the aquifer?

A The period that was selected for investigation, Mr. Price, from February 1 through April 19, was specially selected because it was a period during which time the water levels in No Name Creek aquifer did not change significantly. On January 31 or February 1, 1977, the water level in the aquifer was

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essentially the same as the water level in the aquifer April 19, 1977, so the effect of any change in storage in the aquifer during this period of time was very small. It was possible, then, to measure the contribution from Omak Creek during this period by examining how much water flowed out. If there had been any significant change in storage in the aquifer, if there had been a decline in the water level, if there had been a rise in the water level, then some of the water that had infiltrated from all sources, Omak Creek and precipitation runoff, would have made some differences in the water levels if that same -- if less than the amount that was coming in was being discharged, or if more than was coming in was discharged. Do you understand what I'm saying?

Q I will try and work through it with you. To be doing that you had to assume that the aquifer storage capacity was full; is that not correct?

A No, no.

Q Unless the storage capacity of the aquifer is full, you are going to not get a true reading of what the outflow is or should be from that basin; are you?

A No, that is not correct, Mr. Price.

Q What is the storage capacity of that aquifer, Mr. Watson?

1 A I don't know what the storage capacity is, and it's
2 not necessary to know.

3 Q Well, let's find out. You say there was a short
4 water supply, and I guess what you are saying is
5 that at one time last year the water reduced the level
6 -- the aquifer reduced below certain pumps, or at
7 least came into close proximity to where the pumps
8 were located in the ground; is that not correct?

9 A That is correct, yes.

10 Q And if, in fact, the Tribe and Mr. Walton had placed
11 their pumps 15 feet beneath the surface, there would
12 have been what you call a short water supply the
13 first day of irrigation season; wouldn't there?

14 A If it had been attempted to withdraw the amount of
15 water that was taken, yes.

16 Q And if the Tribe and Mr. Walton located their pumps
17 at 35 feet beneath the surface of the ground, it
18 would have been a short water supply at some point
19 during the irrigation season last year; is that not
20 correct?

21 A Yes, that is correct.

22 Q So, short water supply is an integral part of the
23 pumping system that is developed to extract that
24 water; isn't it?

25 A No.

1 Q It is not. So, no matter how much water is down
2 there underneath the ground, it doesn't make any
3 difference to you even though it's there. If you
4 just don't want to put your pump down and get it,
5 then you have got a short water supply according
6 to your determination; isn't that correct?
7 A Short water supply, Mr. Price is determined by the
8 amount of water coming into the aquifer. If you
9 are taking out more water than is coming in, your
10 pumps are going to go dry, and that is definitely
11 the case in 1977.
12 Q But as you pump an aquifer, Mr. Watson, you expand
13 the area upon which that aquifer draws to recharge
14 itself, and you increase the amount of water that
15 is regenerating in that aquifer; is that not true?
16 A No.
17 Q Okay. Do you even know how deep the valley, the
18 bottom, that granite floor is?
19 A I have a pretty good idea.
20 Q Okay. You have an exact idea; do you not?
21 A No I do not.
22 Q Did not your office make detailed geology workup on
23 this valley?
24 A Very, very detailed.
25 Q And they didn't consult with you in that regard?

1 A Yes, they did.

2 Q And they made very, very detailed studies and you
3 do know where the floor of that granite floor is
4 in that valley; don't you? You know its width and
5 you know its depth; don't you?

6 A No.

7 Q Okay. And is that why you can't calculate, then,
8 the total storage volume of that aquifer?

9 A No.

10 Q Why can't you?

11 A The reason you cannot calculate the total storage
12 volume of the aquifer is because there is no way to
13 determine the amount of space in the materials that
14 would store water.

15 Q You are talking about the specific yield.

16 A I'm talking about the space for the aquifer to store
17 water which Mr. Cline has referred to as a specific
18 yield.

19 Q Yes. And you made no studies to determine the specific
20 yield of the land properties within this valley?

21 A Yes, I did.

22 Q And what were those studies?

23 A The specific yield for the No Name Creek valley that
24 was determined in this investigation was .145 and
25 that does not comport precisely to the definition of

1 specific yield used by Mr. Cline.

2 Q What was the figure, again, Mr. Watson?

3 A .145.

4 Q And how does it differ from Mr. Cline's definition?

5 A The difference is that it is a coefficient that was
6 intended to represent the percent of the total volume
7 of mass, including all of the rock materials, all of
8 solid materials, that would yield water from the No
9 Name Creek aquifer.

10 Q Okay. Can't you take that figure and with the rest
11 of the information you have, calculate the storage
12 of the valley, then?

13 A The dimensions, the precise dimensions and delineations
14 of the boundaries of the granite, are unknown to
15 everybody, to my knowledge.

16 Q Mr. Watson, did I misunderstand you in a deposition
17 that we had several weeks ago, maybe it was months
18 now, here in Spokane --

19 MR. VEEDER: I can't hear you, Mr. Price.

20 Q (By Mr. Price) I'm asking the witness whether possibly
21 I misunderstood him when he talked about how you
22 determine the amount of infiltration from Omak Creek
23 to No Name Creek valley, and I thought that you took
24 measurements from Omak Creek and measured its flow
25 in March of 1976 at less than .66 cfs, and then the

1 figures you talk about from January 31 of 1977 through
2 the middle of April of 1977, of .54 cfs. Was I in
3 error?

4 A You definitely were, Mr. Price.

5 Q Did you take any measurements in March of 1977, Mr.
6 Watson?

7 A Did I take any measurements in March of 1977?

8 Q Yes, in connection with trying to determine the
9 amount of infiltration from Omak Creek into No Name
10 Creek.

11 A No, I did not.

12 Q And you didn't determine that the flow of -- the
13 amount of infiltration was greater than the .50 cfs
14 in March of 1976?

15 A In March of 1976 I did make a determination that the
16 contribution to the No Name Creek aquifer was in
17 excess of .5 cfs from all sources. Excuse me, that
18 is not correct, Mr. Price. The dates are wrong on
19 that.

20 In March, 1976 I made a determination that the
21 inflow to the No Name Creek aquifer from all sources
22 was less than .66 cfs.

23 Q This is March of 1976?

24 A This is March, 1976, March 12.

25 Q And how did you make that calculation? Is that the

1 one you previously described or was that a different
2 one?

3 A That is calculation that I don't believe has been
4 previously described in the courtroom.

5 Q You made a calculation March of 1976 of less than .66
6 cfs?

7 A It's not a calculation, Mr. Price, it's a measurement.

8 Q You made a measurement in March of 1977 that the
9 infiltration was greater than .50 cfs; right?

10 A I didn't hear the date on that last question.

11 Q March, 1977 that the infiltration from Omak Creek
12 was greater than .50 cfs.

13 A No, that isn't what I said. This is a very complex
14 subject, Mr. Price, and the reason I'm not responding
15 to your answers is because of the complexity and
16 you are misstating those.

17 Q I'm sure you will bear with me, Mr. Watson.

18 The final bottom line of that deposition was
19 your calculations as to the amount of water source for
20 No Name Creek valley, and my notes reflect -- and if
21 they're wrong, go ahead and say so. We don't need
22 the rest of this. Just tell me what the calculation
23 was. What was the calculation in March of 1976 that
24 calculated out to be less than .66 cfs?

25 A Can I refer to the exhibits?

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Q Surely.

A Now, again, I repeat, this isn't a calculation, it's a measurement.

Q That is right.

A On March 12, 1976, the United States Geological Survey made a measurement of No Name Creek at Location 10, shown on Colville Exhibit No. 10, and the location of this measurement point is fairly near Mr. Walton's driveway. In fact, it is at his driveway. And the U.S.G.S. in that measurement found that the discharge of No Name Creek was .66 cfs.

Now, the significance of that measurement is that from November, 1975, through March, 1976, the water level in the No Name Creek aquifer under natural conditions was declining which meant that more water was flowing out of the aquifer than was coming in from all sources including natural runoff and precipitation and including natural infiltration from Omak Creek. Just like filling your bathtub. If you fill your bathtub and you put more water into it than has gone out of it, the water level in your bathtub is going to rise. But if you are not putting in as much as is going out the drain, the water level is going to fall. So, this is an indirect measurement of the amount of water that was being recharged to the No

1 Name Creek aquifer from all sources under natural
2 conditions. That is a measurement of the amount of
3 water that was coming in during that period of time.

4 Now, .66 of a cfs in terms of acre-feet, Mr.
5 Price, -- I'm at a loss because I can't convert quite
6 that quickly, but I would estimate that that is about
7 425 acre-feet, far less than the 550 acre-feet that
8 I have testified to as a firm water supply, and far
9 less than the 1100 acre-feet testified to by the
10 U.S.G.S.

11 Q All right.

12 A As an average water supply.

13 Q Because you are not calculating precipitation in there
14 at that point, are you?

15 A Yes, I am.

16 Q That is why you don't come up to 550 feet; do you?

17 A That is not correct.

18 Q Your calculation --

19 A The measurement --

20 MR. VEEDER: Let the witness answer.

21 Q (By Mr. Price) Go ahead.

22 A The measurement of .66 of a cfs is a measurement of
23 all the -- it's a measurement of the outflow from the
24 No Name Creek aquifer which reflects the contribution
25 from all sources. It doesn't just isolate itself to

1 the infiltration from Omak Creek.

2 Q At a given point in time.

3 A At a given point in time it is reflected by the
4 water levels from November through March -- November
5 of 1975 through March of 1976.

6 Q That is correct.

7 A We can't see that the water levels continue to decline
8 on a natural basis because something began shortly
9 thereafter and the water levels declined because of
10 the rates of withdrawal from the wells.

11 Q Does that reflect to you, Mr. Watson, then, that the
12 storage capacity of No Name Creek valley was full to
13 its limit and was overflowing, the bathtub was
14 overflowing in 1975 and into 1976?

15 A The No Name Creek aquifer was discharging natural
16 stream flow in 1975 and 1976.

17 Q My question was, does that indicate to you, if the
18 level of the water was declining in the valley at
19 that point, that it has reached its storage capacity
20 and is discharging because the natural inflow cannot
21 be accepted by the aquifer anymore and it needs to
22 run out somewhere?

23 A It simply means, Mr. Price, that the water level in
24 the aquifer was high enough to discharge water to the
25 natural spring zone of No Name Creek.

1 Q So it doesn't mean -- that doesn't necessarily have
2 any correlation with how much water is coming in at
3 the other end unless you know the transpacity of
4 the material and how fast it can flow through to
5 get down to the No Name Creek channel.

6 A That is completely irrelevant.

7 Q I see. All right. So, the only thing that is
8 relevant for you is how much is coming out at a
9 particular point in time as to how much is going
10 in at the other end of this aquifer.

11 A That, correlated with the observation of the water
12 levels. The water levels are falling which means
13 that there is more coming out of the aquifer than
14 is going in. If the reverse was true, the water
15 level in the aquifer would be rising.

16 Q Can it continue to rise forever, Mr. Watson? How
17 far can this water level rise in connection with
18 exhibit --

19 MR. PRICE: If I may, Your Honor.

20 Q Plaintiff's Exhibit 33-1. How high up on that chart
21 can the water level go?

22 A In my opinion, the water level on the chart -- and
23 we are referring to Colville Exhibit 33-1 -- does
24 not in a natural state rise significantly higher than
25 was observed in October-November, 1975. It just

1 followed a year of very heavy precipitation. To the
2 extent that this aquifer is recharged from precipitation
3 and from contributions naturally from Omak Creek,
4 these contributions were reflected in very high water
5 levels during this period of time. It's an extremely
6 wet period of time that we are following.

7 Q Okay. Then, my question is, again: The aquifer is
8 full; is that correct?

9 A Essentially.

10 Q And it's got a hole in it, and it slopes downward in
11 the vicinity of the Walton's north boundary and dis-
12 charging from that is the water that it can't accept.

13 A Well, your concept is appropriate, but it's not a hole
14 down there; it's just water flowing through.

15 Q Springs where it appears. Do you have any idea why
16 that water appears at spring zones at that point in
17 the land?

18 A Yes. That's where the water table, the elevation of
19 the water surface in the No Name Creek aquifer
20 intercepts the land surface.

21 Q And the records that you have compiled and obtained
22 show that during the time that the Waltons were
23 irrigating that the aquifer remained in a balanced
24 system, remained at its highest level that it could
25 be at; is that not correct?

1 A In 1975, in my opinion, the Waltons were not with-
2 drawing large amounts from the No Name Creek aquifer
3 as reflected by the small declines in the water level
4 in late July, early August in a couple of small
5 depressions in the water table in middle September.

6 Q And it is obvious from that exhibit that whatever they
7 did withdraw was certainly recharged.

8 A It's obvious from the exhibit that whatever they
9 withdrew during this short period of time was filled
10 in. The void around the pump was filled in by water
11 being contributed in a very local area just to fill
12 the depression around the pump.

13 Q Oh, then that exhibit doesn't tell us anything about
14 the level of the water in the aquifer itself, just
15 around a given point, a particular pump?

16 A This is reflecting the water levels in the Peters
17 observation well. Please keep that in mind.

18 Q And that is the one you described as a poor
19 observation well?

20 A I did not describe it as a poor observation well.

21 Q I'm sorry, I thought you did.

22 So, this is just a given well and does not relate
23 to the level of the groundwater aquifer in terms of
24 its total supply?

25 A This is very reflective of the total supply in the

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aquifer.

Q All right. Then, my question is: Doesn't that reflect that all of Walton's use was fully recharged in the end of the year of 1975 and commencing the start of the year '76.

A I don't use the term recharge, but water from the surrounding area, very local area, in the south end of the aquifer did flow in and fill the void that was created by the pumping around Mr. Walton's well, and I do believe that the Peters observation well did reflect draw down in the aquifer from Mr. Walton's pumping.

Q And recharged.

A If you want to use the term recharged, Mr. Price, I would accept that, but it is recharged from a -- it is not a generation from a new supply of water. It's simply the movement of the water that is in the aquifer back into the void created by the well.

Q Where does the water come from that fills in the void after the Tribe turns off their pumps?

A The same sources that recharges the aquifer.

Q That recharge the aquifer.

A That's right.

Q All right. Fine, thank you.

Does the firm annual water supply mean that that

1 is all you can take out in any given year or is that
2 an average, or is it every third year or what does
3 it mean, those terms?

4 A Well, the firm annual water supply, Mr. Walton --
5 excuse me, Mr. Price, is always less than the
6 average. Consider your own home, for example. Would
7 you design the roof of your home for an average snow
8 load? What would you do when a heavy snowfall came.

9 Q You say it's designed for less than the average.
10 What would you say the average available water supply
11 might be in No Name Creek valley?

12 A The average available water supply in No Name Creek
13 Valley would be approximately 800 acre-feet.

14 Q 800 acre-feet. As a hypothetical, if this court
15 were to limit use of water for whatever parties or
16 any parties, to 500 acre-feet a year, according to
17 your own testimony, there would be many years when
18 300 acre-feet of water would go to waste; is that
19 correct?

20 A Now --

21 Q I'm proposing a hypothetical. If any party or all
22 parties were limited to withdrawing 500 acre-feet
23 from that aquifer, then many years 300 acre-feet
24 would go to waste; is that not correct?

25 A No, the figure that I gave you of the 800 acre-feet

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average, Mr. Price, is the average water supply that occurs during the entire year. Now, that water supply is not usable to its fullest extent because there are spills from the aquifer during the non-irrigation season and, therefore, the amount of average water supply that is available during periods when it can be beneficially used is less than that.

MR. PRICE: If I may approach the exhibit, Your Honor.

Q Exhibit, Plaintiff's Exhibit 33-1, we have the level of the water supply in the aquifer at an elevation of approximately 1150 feet. You are suggesting that we -- and that represents a full water table.

A I'm speaking -- I'm accepting that, yes.

Q And you are suggesting that we can't concern ourselves with the first 300 feet in that aquifer because that is going to discharge in some manner or another every year.

A The first 300 feet in the aquifer?

Q Right. Why can't we consider this extra 300 feet above the 550, the 200.

A Oh, the 300 acre-feet. Acre-feet you're talking about, not depth.

Q No, acre-feet.

We can't consider that -- I don't know what depth it

1 would bring it down to -- but we can't consider that
2 because you are concerned that it's going to be lost
3 or discharged out of the system before it can be
4 used.

5 A First, it's not 300 acre-feet, Mr. Price. The
6 difference between 800 acre-feet and 550 is 250.

7 Q Yes, I just commented 250. Thank you.

8 A And it is inconceivable, in my opinion, to manage
9 the management of this aquifer such that there were
10 no longer any discharges of natural stream flow to
11 No Name Creek during periods when it cannot be
12 beneficially used. That is inconceivable to me.

13 Q Mr. Watson, haven't we proven this past year that
14 if the Tribe continues to pump in the manner that it
15 has, that there isn't going to be any stream flow,
16 surface flow, so we don't have to worry about losing
17 300 acre-feet of discharge through the stream flow;
18 do we?

19 A I certainly think that we proved that the water supply
20 is inadequate to meet the demands that have been placed
21 on it in 1976 and 1977.

22 Q What if you put your pump down another 50 feet, each
23 of the three pumps? There would have been more water
24 available; would there not?

25 A You would be inviting disaster, Mr. Price.

1 Q I will try not to do that, Mr. Watson.

2 My question was: There would have been water
3 to have been pumped for the crops; would there not?

4 A There would not have been a supply to stand that
5 additional pumping.

6 Q You are telling me that that aquifer was dry at the
7 end of 1977.

8 A I'm telling you that the aquifer had been pulled down
9 to the point that the pumps could no longer draw
10 water from the aquifer in the amounts that were needed
11 to provide full water requirements for the irrigated
12 crops.

13 Q But my question is, if we just lowered the depth of
14 the pumps 50 feet, would there not have been enough
15 water?

16 A There would not have been enough water to continue
17 to do that on a sustained basis. If you pull the
18 water table down this year, then where would you be
19 next year?

20 Q I'm just asking about this year for right now. There
21 would have been enough for this year; would there not,
22 Mr. Watson?

23 A Under what conditions.

24 Q Under the conditions we had.

25 A I don't think we have a system -- we have a system

1 out there that we know about. If you put the well --
2 if you put the pump 50 feet deeper in the aquifer,
3 I can't state that there would have been a capability
4 to withdraw additional water.

5 Q You know the specific yield of the material in the
6 valley.

7 A The specific yield is variable throughout the valley.
8 There is no way to determine the specific yield at
9 any point in that aquifer.

10 Q I see. Were you just guessing when you put the well
11 down the first time, any of the wells, or did you have
12 some idea of what you were putting those wells into?

13 A I'm sure that Mr. Corke had some idea as to what
14 material he could expect in those wells.

15 Q If he had an idea then, he can have an idea now; can't
16 he?

17 A Yes, sir.

18 Q Isn't it true that this has been one of the most
19 extensive studies ever run in the state of Washington
20 on a hydrologic system?

21 A I think that this is probably the most extensive
22 hydrologic investigation ever undertaken in the
23 United States on such a small amount of water, Mr.
24 Price.

25 MR. MACK: Your Honor, I don't know what

1 the nature of the objection would be, but except that
2 to me the question and the answer is unclear as to
3 which study is being referred to, or all of the
4 cumulative studies done by all of the parties being
5 referred to in that answer.
6 MR. PRICE: I think that takes an
7 explanation of the question.
8 THE COURT: I don't consider there is any
9 objection before me. Go ahead.
10 Q (By Mr. Price) Mr. Watson, were you aware of the
11 historic use of water from Omak Creek and the
12 beneficial application to the northernmost tract
13 of land with which we are concerned in this litigation?
14 A I don't understand your questions, Mr. Price.
15 Q Were you familiar -- did you inform yourself or
16 learn information during this study that the historic
17 use of what is marked Allotment -- the northernmost
18 allotment that is now owned by the Tribe, 526, was
19 irrigated from waters from Omak Creek?
20 A I had no knowledge of that until Mrs. Timentwa
21 testified to that the other day.
22 Q You did not observe the remnants of the diversion
23 across the land in that vicinity?
24 A No, I did not.
25 Q And water from Omak Creek, the surface water, is

1 available for beneficial application on those
2 allotments; is it not?
3 A Not to my knowledge.
4 Q Not to your knowledge. Omak Creek actually crosses
5 part of Allotment 526; does it not?
6 A Yes, it does.
7 Q Traverses?
8 A Yes, it does.
9 MR. PRICE: Excuse me one minute.
10 Q On Exhibit No. 7, Tribes' Exhibit No. 7, you purported
11 to divide the aquifer or watershed boundary into
12 various segments; is that not correct?
13 A Yes, sir.
14 Q And is it not correct that you have assigned 46
15 percent of the watershed boundary to encompass
16 Allotment 901 and 903?
17 A I haven't made a determination as to percentage.
18 Q Mr. Watson, in terms of the current level of the
19 aquifer, when is the last data you have in terms
20 of the refilling of the aquifer?
21 A The last data that I have is a water level measurement
22 in the Peters observation well on February 3, 1978.
23 Q And could you state for the Court the depth of water
24 in the well.
25 A I would have to refer back to the exhibit. I couldn't

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recall from memory.

Q But you have already testified to that, and it is shown on the exhibit.

A Yes, sir.

Q All right.

MR. PRICE: I have no further questions at this time, Your Honor.

THE COURT: Does the State have cross-examination?

MR. MACK: Yes, Your Honor, it does.

CROSS-EXAMINATION

BY MR. MACK:

Q Mr. Watson, to Mr. Price's last question you stated that you have data for the water level in the Peters well for the date of February 3, 1978. Do you have data from 1978 for the water table in the water level in other wells to which you have testified today and yesterday?

A No, I do not.

Q Do you know if such data are available?

A It is my understanding that it is.

Q Where are they available from, to your understanding?

A They are available from the U.S. Geological Survey to the extent that they make them available.

1 Q Have you attempted to obtain such data?

2 A No, I have not.

3 Q Would such data have any relevance in your view to
4 a determination of the extent of recovery of the
5 water table at the point of those wells?

6 A No, in my opinion. No.

7 Q It would not.

8 A No.

9 Q Am I correct that the data for a shorter period of
10 time as shown on your exhibit --

11 MR. MACK: May I approach the exhibit,
12 Your Honor?

13 THE COURT: You may.

14 Q (By Mr. Mack) I don't know where I was in the
15 grammatical construction of that sentence, but
16 referring your attention to Exhibit 25-1, isn't
17 that -- let me ask you this: What, in your opinion,
18 is the most important conclusion that you could
19 draw from Exhibit 25-1?

20 A The most important conclusion from Exhibit 25-1 is
21 that during the 1978 irrigation season it's extremely
22 likely that we will be in the same situation that we
23 were in in 1977, August, but by as much as a month
24 earlier.

25 Q And isn't that based on the information which appears

1 on 25-1 with regard to the water level table in
2 the Peters well for the years 1976 and 1977?
3 A Yes, it is.
4 Q And haven't you computed, based on the information
5 you placed on Exhibit 25-1, a projection of a recovery
6 of water level for the Peters well for some time in
7 1978?
8 A Yes, sir.
9 Q And what is the date to which you decided the recovery
10 period would end in 1978?
11 A The illustration is intended to show that irrigation
12 began in 1977 in early April, and that if irrigation
13 again started in the No Name Creek basin from the
14 Colville irrigation project in 1978 at that same
15 date that similar decline in water level could be
16 expected.
17 Q As of April 1?
18 A No, that goes beyond April 1.
19 Q Well, let me ask you that again.
20 Do you have a recovery period for the two years,
21 the irrigation years of 1976 through 1977 and 1977
22 through 1978, depicted on Exhibit 25-1?
23 A Yes, I do.
24 Q And that period of recovery for both those years runs
25 from which dates?

1 A In 1976 the period of recovery runs from October 5,
2 I believe, Mr. Mack, to April 6, 1977, and the period
3 of recovery in -- for 1977-78, begins -- well, the
4 period of recovery that I'm showing here begins
5 November 7, 1977 and this is just a transposition of
6 this elevation across to here for comparison.

7 Q I understand.

8 A From November 7, 1977 to April 6, 1978.

9 Q Is there any significance to stopping the recovery
10 period around the month of April?

11 A Yes, there is.

12 Q Could you just explain what that is.

13 A Beginning of the irrigation season.

14 Q And is that the normal final date on which recovery
15 period calculations are done?

16 A That was the period last year. I don't think there
17 is any normal about it.

18 Q Well, you are a hydrologist; are you not?

19 A Yes, I am.

20 Q And are you aware of the calculation of recovery
21 periods for irrigation purposes by hydrologists done
22 in the normal course of their studies and duties?

23 A I'm not sure to what you are referring, Mr. Mack.

24 Q Do hydrologists calculate recovery periods, Mr. Watson?

25 A Recovery periods in aquifers?

1 Q Yes, sir.

2 A I don't know that hydrologists calculate recovery
3 periods.

4 Q What do they do with them? Maybe my terminology is
5 bad. If they don't calculate them, what do they do
6 with them?

7 A Mr. Mack, the intent of that exhibit is to show that
8 1976 -- 1977 --

9 MR. MACK: Well, that wasn't my question,
10 Your Honor.

11 Well, I will let him go ahead.

12 A That 1977 irrigation began in the first part of
13 April and that we can expect the beginning of the
14 irrigation season in the first part of April, 1978.

15 Q Mr. Watson, isn't it true that in the calculations
16 of recovery periods that it is normal for hydrologists
17 to finish the recovery period at the point at which
18 irrigation season begins, that is, to calculate the
19 recovery period up to the date at which no major
20 withdrawals are taking place for irrigation purposes?

21 A Yes, that would be correct, yes.

22 Q And they do that normally; don't they, when they
23 calculate recovery periods?

24 A I think that would be appropriate thing to do when
25 you are trying to estimate when you are going to begin

1 withdrawing water which is precisely what I did there.

2 Q That is exactly what you did; isn't it, with Exhibit
3 25-1?

4 A That is precisely it.

5 Q And does 25-1 show the water table as projected by
6 you for the entire No Name Creek basin or does that
7 indicate the water level that will appear at one
8 point, namely the Peters well, as of April of 1978?

9 A Reflects the water level at the Peters well and that
10 is very reflective of the water levels in the No
11 Name Creek aquifer. If you look at the profiles of
12 water levels in the No Name Creek aquifer during the
13 state of nature you will find that they conform to
14 the same profile, the same slope, at any time in a
15 state of nature when the water level in the Peters
16 observation well is at a given level it conforms
17 very well to water levels in the wells to the north
18 and -- to the north.

19 Q Now, Mr. Watson, you have used on numerous occasions
20 during your testimony the term "state of nature" with
21 regard to answers to questions.

22 What is your understanding when you use that
23 term? What is your understanding of the meaning of
24 the term "state of nature" with regard to this
25 water system?

1 A The Colville Confederated Tribes have resolved that
2 the waters of Omak Creek are to be maintained for the
3 purposes of beneficial use within that watershed.
4 Therefore, my responsibilities as a hydrologist to
5 the Colville Confederated Tribes and Mr. Corke have
6 been to determine the water available in the No Name
7 Creek basin in the state of nature, in other words,
8 without the induction of water from outside sources,
9 namely, Omak Creek.

10 Q So, when you used the term the No Name Creek basin
11 or valley or aquifer, whatever, in a "state of nature,"
12 all you mean is that it has no waters contributed to
13 it from Omak Creek.

14 A In a state of nature, the No Name Creek aquifer has
15 a natural contribution from Omak Creek. In a state
16 of nature Omak Creek does contribute to the No Name
17 Creek aquifer.

18 Q Well, let me rephrase that. When you use the term,
19 "state of nature," you mean only that it does not
20 contribute any more than it does naturally; is that
21 correct?

22 A That is what I mean.

23 Q And by "state of nature," do you mean the No Name
24 Creek basin without any development in it?

25 A By recharge, I mean the amount of water that would be

1 contributed to the No Name Creek aquifer in a state
2 of nature, namely, the amount of water that would be
3 infiltrated from Omak Creek without any development
4 in the aquifer and the amount of precipitation runoff
5 that would contribute to the aquifer in that same
6 set of conditions.

7 Q Yes, but isn't that assuming -- and the only reason
8 I'm going into this is because I think it qualifies
9 a lot of your answers, that phrase that was used.
10 Isn't that assuming a state of development of surface
11 water diversions and groundwater withdrawals as of
12 a certain date, or does it assume no development
13 whatsoever having taken place in the No Name Creek
14 valley?

15 A It simply assumes -- it is not an assumption; it is
16 a statement of fact, but the only intent in saying
17 "in a state of nature," is that the Colville
18 Confederated Tribes have resolved that the No Name
19 Creek Colville Indian Irrigation Project is not to
20 obtain water artificially from the Omak Creek water-
21 shed.

22 Q Well, yes, I understand that, but --

23 If there were no development whatsoever at all
24 in the No Name Creek basin, no withdrawals, no surface
25 diversions, would you term that system as being in a

1 state of nature?

2 A Yes, I would.

3 Q Nevertheless, it is also in a state of nature with all
4 of the development presently in place; is that correct?

5 A It is not in a state of nature with all of the
6 developments in place, no.

7 Q Well, explain that. Explain the difference to me,
8 please.

9 A When the system is in a state of nature, the ground-
10 water profile, the discharges to the natural channel
11 of No Name Creek, are all unaffected by diversion,
12 by pumps, by diversions from the stream system of
13 No Name Creek, and in a state of development, the
14 water level profiles are markedly changed, modified,
15 due to pumping of the well; surface diversions are
16 taking place from the stream; water is being placed
17 in the No Name Creek stream after being pumped from
18 the development wells of Colville Confederated Tribes.

19 Q So, "state of nature" means that the water table
20 remains relatively the same.

21 A It doesn't mean that the water table remains relatively
22 the same. It simply means that it is unbroken in
23 profile due to pumping effects. It is a very
24 continuous, gradually sloping kind of profile.

25 Q Well, Mr. Watson, let me ask you this: If there were

1 only one well in that whole valley pumping, wouldn't
2 the profile be broken, the water table?

3 A Any time there is withdrawal from any well, regardless
4 of the number, there is a break in profile.

5 Q Yes, so that your term "state of nature" which you
6 have just defined, could not apply at all to the
7 system as it is today; isn't that correct? The
8 water table is broken by development.

9 A That is absolutely correct, but all I'm saying is
10 that the water entitlement to No Name Creek as
11 determined by the Colville Confederated Tribe is
12 only that water that is contributed naturally. Let
13 me give you an example.

14 Q Well, before -- Go ahead.

15 A I'm involved in the San Juan River basin which is a
16 major tributary of the upper Colorado River basin in
17 the Southwest, and there is a project in that area
18 known as the San Juan Chama Diversion Project.
19 Now, water is being taken from the headwaters of
20 the San Juan River, delivered through the tunnels
21 of the San Juan Chama Project into the Rio Grande
22 system. That is a trans-basin diversion. It's an
23 artificial induction of water from one basin to
24 another.

25 Now, in the San Juan River basin when you talk

1 about a state of nature, you're talking about the
2 amount of water that is in the San Juan River basin
3 in a state of nature without the diversion through
4 the San Juan Chama Project into the Rio Grande basin,
5 and this is precisely the same situation here. The
6 only difference is that we are dealing with a very
7 small amount of water. We are dealing with a very
8 small basin and Omak Creek and the No Name Creek
9 basins are completely separate, except to the extent
10 that water is contributed naturally from Omak Creek
11 to No Name Creek basin.

12 Q And are they separate based on your view as a
13 hydrologist without any other consideration or are
14 they separate based on your view as a hydrologist
15 pursuant to the Tribal resolution which you have
16 described?

17 A Those are my orders, Mr. Mack.

18 Q Pardon me, could you repeat that.

19 A I'm operating under the resolution of the Colville
20 Confederated Tribes. I'm operating under the directions
21 of Mr. Corke and the Colvilles have decided that Omak
22 Creek is a separate watershed and that artificial
23 induction of water from that creek to the No Name
24 Creek basin is not what they like; it's not what they
25 desire.

1 Q Pardon me. And your hydrological conclusions are
2 based on that; are they not? They are affected by
3 that.

4 A My hydrological conclusions are not affected by that,
5 Mr. Mack.

6 Q Well, which conclusions are affected by that, Mr.
7 Watson?

8 A I think yours.

9 MR. MACK: Well, Your Honor, I think that
10 was unresponsive. I will ask it again.

11 Q Did the Tribe's resolution, in your mind, that the
12 Omak Creek system and the No Name Creek system, which
13 I have yet to hear defined, are to remain separate in
14 your work, affect the conclusions you came up with
15 in your work as to the determination, for example,
16 as to the boundary of the No Name Creek watershed?

17 A No.

18 Q Did they affect any of your conclusions?

19 A No.

20 Q Then what would -- but I understood you earlier to
21 say that they were relevant to your work in the field,
22 that you were working pursuant to them.

23 A That is correct.

24 Q Now, am I correct in understanding that they did not
25 at all limit your professional conclusions or the

1 scope of your investigation?

2 A No, they did not.

3 MR. VEEDER: Well, Your Honor, it seems
4 to me like we have ridden this as far as we need to.
5 The witness has said he knows what is naturally
6 affluent to the No Name Creek basin. The idea is
7 not to induce any more water than would naturally
8 flow in there. They accept the quantity of water
9 that naturally goes in there as the natural
10 infiltration. They don't want to induce any more
11 water. I don't know how it can be more clear on
12 that.

13 THE COURT: Cross-examination is entitled
14 to considerable leeway.

15 You may proceed.

16 MR. MACK: Thank you, Your Honor.

17 Q Mr. Watson, how many groundwater withdrawals took
18 place in 1977 in what you have described as the No
19 Name Creek watershed?

20 A How many groundwater withdrawals, Mr. Mack?

21 Q Yes, how many -- let me phrase it this way: How
22 many wells were pumping in 1977 within the exterior
23 boundaries of what you have described as the No Name
24 Creek watershed?

25 A Can I refer to an additional exhibit?

1 Q Please do.

2 A I believe there were eight.

3 Q And how many surface water diversions were occurring
4 in the No Name Creek within the exterior boundaries
5 of what you have defined as the No Name Creek watershed
6 during the year 1977?

7 A Two.

8 Q Now, under your definition of that system being in
9 a state of nature, could it have been in a state of
10 nature with eight groundwater withdrawals and two
11 surface water diversions?

12 A It was not in a state of nature.

13 Q Do you know the last year in which that system was
14 in a state of nature, according to your definition?

15 A No, I don't.

16 Q Is there anyway to determine that?

17 A Not from my personal knowledge, no.

18 Q Wouldn't you have to go -- would it be the last year
19 during which the system had no surface groundwater
20 withdrawals or surface diversions, that is, the last
21 year before some human being went out there and
22 affected the water table by withdrawing some water?

23 A Are you limiting yourself to the water table now?

24 Q As my understanding of the relevance of the water
25 table with regard to your definition of the term

1 state of nature which is an unbroken water table, yes.

2 A I have no knowledge.

3 Q Wouldn't that be the last year that you would have a
4 natural state of nature system?

5 A In the aquifer, yes.

6 Q Yes, but when you say you have no knowledge, you mean
7 you don't know what year that is, that would be the
8 year in which you had a state of nature in the system?

9 A Yes.

10 Q Now, could you explain with regard to -- well, strike
11 that.

12 Now, there have been a lot of references in
13 your testimony to various terms such as No Name Creek
14 valley, No Name Creek watershed, No Name Creek basin,
15 No Name Creek groundwater aquifer. Am I correct that
16 on the exhibit as shown there --

17 MR. MACK: May I approach the exhibit,
18 please.

19 Q -- Colville Exhibit 7 -- 11, pardon me. 11, that what
20 is indicated by the blue broken line is the boundary
21 as you have determined it for the No Name Creek
22 watershed?

23 A Yes, that is correct.

24 Q Now, you have referred also in your testimony to the
25 No Name Creek basin. Does the boundary of the No Name

1 Creek basin, to your understanding, differ from the
2 boundary of the watershed, or is it identical?

3 A When I refer to the No Name Creek basin and the No
4 Name Creek watershed, I'm referring to those
5 synonymously.

6 Q Now, with reference to your reference to the term
7 No Name Creek valley, is that also a synonymous
8 area?

9 A The No Name Creek valley is a term coined by the U.S.G.S.
10 in the report they prepared in 1978. I have never
11 heard reference to that before. I suspect that I
12 have used that in my testimony here because of the
13 investigation of the report that I had undertaken.

14 Q Yes, and when you have used it, have you used it in
15 the same way that you understand the United States
16 Geological Survey to have intended it to be used?

17 A Well, the No Name Creek valley that U.S.G.S. talks
18 about is the, as I understand it, I am just telling
19 what my understanding is.

20 Q Go ahead, because the record is going to have to
21 indicate what you mean by those terms and that is
22 what I'm interested in.

23 A Yes, the No Name Creek valley, as I understand the
24 U.S.G.S. to mean, extends from the north end of Omak
25 Lake to somewhere in the vicinity of Mission Creek

1 and maybe beyond, I don't really know where they chop
2 off the No Name Creek valley.

3 Q Does it differ, for example, on the -- is the valley
4 the boundary on the west the same as your watershed
5 boundary?

6 A The U.S.G.S. use of the word valley is so unclear to
7 me I just don't know how to answer your question
8 precisely.

9 Q Okay. When you used the term valley what was the
10 boundary you had in mind, or did you have any
11 boundary in mind?

12 A The only thing I would refer to in a technical sense
13 in the No Name Creek area is the No Name Creek basin
14 and the No Name Creek watershed, and if I have used
15 the word valley to imply the No Name Creek basin or
16 the No Name Creek watershed, I have done that without
17 precision.

18 Q Well, all I really want to know is when you have used
19 it, is it likely that you used it synonymously with
20 the watershed and the basin?

21 A Yes, it is.

22 Q Now, the term No Name Creek aquifer has been used,
23 groundwater aquifer. Do you have any idea on the
24 boundary of that when you use that term?

25 A Yes, I did.

1 Q Where is that boundary?

2 A Referring to Colville Exhibit No. 7, the No Name
3 Creek aquifer is the area depicted in green which
4 extends from the southern end of the spring zone of
5 No Name Creek located about two-thirds of the way
6 from the south boundary of Allotment 525, and the
7 No Name Creek aquifer extends from that point to a
8 northern extremity which is common with the watershed
9 boundary as depicted on the exhibit, in Section 9.

10 Q And is that the sole extent of the No Name Creek
11 aquifer in your opinion?

12 A That is the sole extent in a north-south, east-west
13 direction.

14 Q What is your understanding of the term aquifer?

15 A My understanding of the term aquifer is that it is
16 the material that is capable of yielding water to
17 production wells.

18 Q Is there such material farther south than the green
19 area?

20 A Not to my knowledge.

21 Q Are all the wells within the exterior boundaries of
22 the watershed, as you have shown it, located in the
23 green area?

24 A No, all the wells are not.

25 Q How many wells are located in the green area and how

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many are outside of the green area?

A That will require a lengthy count, Mr. Mack.

Q Well, I thought there were eight wells, pumping.
I am just talking about the ones pumping last year.

A There is -- I'm thinking very carefully about this
because I don't want to overlook something here.

Q Go ahead.

A To my knowledge there are seven wells of those eight
pumping from the No Name Creek aquifer.

Q As you define it.

A From the No Name Creek aquifer.

Q You mean from the green area on that exhibit?

A From the No Name Creek aquifer as described on
Colville Exhibit 7.

Q Which well is outside of that area?

A The Bradshaw domestic well.

Q Do you know if water can be or has been obtained from
that well?

A I know that Mr. Bradshaw drilled a previous well and
that well failed because it could not receive
sufficient quantities of water and that apparently
in the new location Mr. Bradshaw, if he still
maintains the property and I'm not sure of that, has
been able to develop enough water for domestic purposes.

Q Now, if there are no materials capable of yielding

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water outside of the green area, could you please explain how the Bradshaw well obtains water.

A The definition of aquifer is shown on -- well, the aquifer as described by the green area on Colville Exhibit No. 7 is capable of producing water to wells for the purpose of irrigation, domestic purposes, uses of that kind and types. Certainly, there is water contained in materials depicted on the red area on Colville Exhibit 7, but that material is not capable of yielding large quantities of water to wells for purposes other than domestic use.

Q Yes, but your definition of aquifer did not include a large yield. You said capable of yielding water. Did you mean, when you defined aquifer, capable of yielding a large amount of water?

A Capable of yielding water sufficient for the purpose of irrigation.

Q Just for irrigation.

A Well, for irrigation and any other uses that require those kinds of quantities of water.

Q Not domestic use?

A Well, certainly you can, if there is sufficient water in the aquifer for purposes of irrigation, there is sufficient water for purposes of domestic use. A domestic well can do quite well on five gallons a

1 minute. The wells that are penetrating the aquifer
2 in the area described in green are withdrawing, have
3 withdrawn water in amounts as high as a thousand
4 gallons a minute.

5 Q Yes, but aquifer is an important term, would you not
6 concede, in the use of analyses of the availability
7 of water in the water system. It is a term that is
8 used in your work; is it not, as a hydrologist?

9 A Yes, aquifer is used in the profession.

10 Q And you have used it in your analysis of the No Name
11 Creek system; have you not?

12 A Yes.

13 Q And, in fact, you have used it in order to determine
14 the green area on Exhibit 7; have you not?

15 A Yes.

16 Q And doesn't the Bradshaw well draw from an aquifer
17 but one not shown on your map and possibly not one
18 that would produce the amount of water you might
19 desire for certain purposes?

20 A The Bradshaw well does not penetrate an aquifer.

21 Q Well, what does it pull water out of if it's not from
22 an aquifer?

23 THE COURT: I think he has already answered
24 that, Counsel.

25 MR. MACK: Thank you.

1 Q Are there any other aquifers within the boundary
2 other than the green one?
3 A No.
4 Q Is there any water received into the green area which
5 you have marked as an aquifer from outside the
6 exterior boundaries of the watershed as shown on
7 Exhibit 7?
8 A I was considering your question and lost it, I'm
9 afraid, Mr. Mack.
10 Q Well, I direct your attention to the green section
11 on exhibit 7 which you state is the aquifer.
12 A Yes.
13 Q Is there any water obtained in that aquifer, obtained
14 by that aquifer, outside of -- that would arise
15 outside of the exterior boundaries of the watershed
16 as you have indicated?
17 A I have no knowledge of water coming in from outside.
18 Q You limited your -- did you limit your analysis solely
19 to looking within the exterior boundaries of that
20 watershed?
21 A I limited my analysis, Mr. Mack, and this is very
22 important. I limited my analysis to the amount of
23 water that can be measured coming out of the aquifer
24 which is an indirect measurement of the amount of
25 water coming in. In other words, I didn't try to go

1 into areas of the aquifer and try to measure precipi-
2 tation runoff and try to measure the contribution
3 from Omak Creek in a state of nature, but I measured
4 the amount of water that was coming out of the aquifer
5 and that gives a very good indirect measurement of
6 the amount of water coming in from all sources.

7 Q Yes.

8 A And the water is all commingled and there is no way
9 to separate them.

10 Q Yes, and you not only mentioned water coming out,
11 but you mentioned the points at which the water comes
12 out; is that correct, of that aquifer?

13 A I measured the water coming out of the aquifer at
14 selected points, such as wells and points of surface
15 discharge on No Name Creek.

16 Q And you made no attempt to determine any points at
17 which water enters that aquifer; did you?

18 A It was impossible, in my opinion.

19 Q Isn't it fair to say that that aquifer may extend
20 farther than is shown on that exhibit?

21 A No.

22 Q Based on the lack of your analysis with regard to
23 points at which water may enter that aquifer?

24 A Mr. Mack, there has been a very intensive, a very,
25 very, intensive geologic investigation of this area,

1 and there are other witnesses here far more qualified
2 than I on the geologic aspects of the No Name Creek
3 watershed, No Name Creek basin, and I think that they
4 can answer your questions quite satisfactorily.

5 Q Well, let me just -- the boundary of that aquifer,
6 are you saying, was that determined by geologic
7 studies?

8 A The boundary of the aquifer was determined by geologic
9 study.

10 Q And you did not do those studies?

11 A I carefully reviewed those investigations. I did not
12 perform the geologic investigation. I did participate
13 in the field inspections.

14 Q Who did them?

15 A They were performed by Dr. Robinson and Mr. Casmark.

16 Q Did Dr. -- who determined the boundary -- after
17 taking that geologic study, who determined where the
18 boundary of the groundwater aquifer was going to be?
19 Was that Mr. Casmark or Mr. Robinson, or you?

20 A It was Dr. Robinson and Mr. Casmark and they were
21 working jointly on that.

22 Q So, you didn't determine the extent of that green
23 area, you accepted what they told you on that?

24 A I investigated with them in the field. I understood
25 precisely what they were saying in the field and their

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opinions comported to my personal observations.

Q And when you say field investigation, I assume that is visual observation of the topography in that area.

A Visual observations of the surface geology, examination of the well logs, a number of factors.

THE COURT: Counsel, I think we will take the afternoon recess at this time. We will be in recess for 15 minutes.

THE CLERK OF THE COURT: All rise.
Court is now recessed for 15 minutes.

(Afternoon recess is taken.)

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THE CLERK OF THE COURT: All rise. Court is reconvened following recess.

THE COURT: You may continue.

MR. MACK: Thank you, Your Honor.

CROSS-EXAMINATION CONTINUED

BY MR. MACK:

Q Mr. Watson, referring you to Colville Exhibit No. 7 and the watershed boundary shown there, was that watershed boundary decided by you or did someone else decide on that and then you concurred with it?

A Referring to Colville Exhibit No. 7 which is the watershed map, the watershed boundary from the extreme northwest corner of Section 9, extending in a southerly direction all the way to the north end of Omak Lake was determined by myself. The watershed boundary beginning in the northwest corner of Section 16 and extending south to the north end of Omak Lake was determined by myself also.

The watershed boundary beginning at the same point that I just described, in the northwest corner of Section 16 and extending northward to the northwest quarter of Section 9, was determined on the basis of geologic investigations, and that watershed boundary was determined by Dr. Robinson and Mr. Casmark.

Q And you concurred with their determination; is that

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correct?

A They determined the geologic boundaries to the system and I made the determination that the water within the boundaries to the east of that line would contribute water to the No Name Creek aquifer in the state of nature.

Q So you concurred with their findings?

A Yes, I did.

Q Now, your understanding of a watershed, as a professional hydrologist, is what?

A It's the area that natural precipitation falling within that boundary contributes naturally water supply to the basin. Water falling outside that boundary, precipitation falling outside that boundary does not enter the soils or the other geologic factors in that area and end up in the basin.

Q To your knowledge, was the northwest portion of that, that is to say, the section which you have described as beginning in the northeast corner of Section 17 and moving up to Section 9 to the northern-most limit of the watershed boundary, was that determined based on geology; am I correct in understanding that?

A From the northwest corner of Section 16 to the northwest quarter of Section 9.

Q Yes.

1 A Yes.

2 Q Was the rest of that line determined by geology or
3 by some other matter?

4 A The rest of the line was determined by topography.

5 Q Why wasn't that one section determined by topography?

6 A The section beginning in the northwest quarter of
7 Section 16?

8 Q Yes.

9 A And extending northward to the northwest quarter of
10 Section 9?

11 Q Yes.

12 A The area to the east of that line, watershed --
13 precipitation falling to the east of that line, Mr.
14 Mack, entered the No Name Creek aquifer, and precipita-
15 tion falling to the west of that line which is a
16 geologic boundary, as we have described, flows into
17 Omak Creek.

18 Q Could that have been determined by topography?

19 A Pardon me?

20 Q Could the fact which you have just testified to -- I
21 do not acknowledge it, but the fact as you stated it,
22 that water to the east of that line falls into the
23 No Name Creek aquifer or watershed, and the water to
24 the left of that line falls outside of it, could that
25 have been determined by topography rather than by

1 geology.

2 A In this case the geologic boundary forms the constraint
3 rather than topography. By constraint, I mean the
4 boundary to the system.

5 Q It could not have been determined by topography, then,
6 by a topographical analysis? Could it or couldn't it
7 have been?

8 A It could not have been.

9 Q Why is that? Why --Does the topography differ there
10 considerably than elsewhere within the watershed?

11 A The geology differs considerably.

12 Q Does the topography differ?

13 A The topography to the west of this line breaks away
14 from a relatively flat area to the east, into a
15 relatively steep area that drains into Omak Creek,
16 but this, Mr. Mack, is not a topographic divide where
17 water from the peak runs both ways. In both cases,
18 on the east side and on the west side of the boundary
19 that we are referring to, the slope of the land is
20 to the west, but there is a sharp break in slope away
21 from the boundary to the west toward Omak Creek at the
22 point where this boundary exists, and the difference,
23 the reason for the break in slope is because of a
24 change in geology and not because of a topographic
25 divide. If a topographic divide existed at this point,

1 there would be a high point and water falling on that
2 divide would flow to the east and water falling on the
3 west side of the divide would flow to the west.

4 Q Yes, I understand that, and isn't that why a topographic
5 divide analysis was used to determine the watershed
6 -- the boundary for the rest of the watershed?

7 A That is the reason that the rest of the boundary was
8 based on topography.

9 Q And it was not used there because of unusual geologic
10 conditions; is that correct?

11 A That is correct, yes.

12 Q Was a geologic study done of all of the other areas
13 around the boundary of that watershed to determine
14 whether there were also unusual conditions existing
15 there beneath the topography?

16 A Yes, to the extent that it was recognized that the
17 topographic divide in the rest of the area is formed by
18 granite bedrock material. The balance of the
19 topographic divide is very well -- in examination of
20 that it is very clear that it is rock and forms a
21 perfect boundary.

22 Q But precipitation falling in the area of the watershed
23 boundary in the northwest corner of the watershed will fall
24 into the No Name Creek watershed, in your opinion;
25 isn't that correct?

1 A To the east of the boundary that we have been
2 discussing?
3 Q Yes.
4 A To the east of the boundary that forms the west
5 boundary.
6 Q Yes.
7 A Precipitation falling on that area will enter the
8 No Name Creek aquifer.
9 Q How does it enter that aquifer?
10 A It percolates -- first the precipitation falls within
11 the boundary on the east. Precipitation falls to the
12 west of the eastern boundary of the watershed in
13 Section 9, and it is conveyed by the topography to
14 the west and at such point as it reaches the area
15 where the Paschal Sherman School is located which is a
16 flat, relatively high elevated terrace and does
17 contain some agricultural fields in this area, very
18 flat, as soon as that water encounters that area, this
19 area is very susceptible to infiltration and except
20 during periods when the ground is frozen or when the
21 infiltration rate is exceeded because of a large amount
22 of water coming from the east to the west, that water
23 can enter the aquifer material and reach the water
24 table, but to the west of the western boundary in
25 Section 9 precipitation falling to the west of that

1 point encounters very dense material and that dense
2 material is located on a steep slope breaking away
3 from the alluvial material into this more dense type
4 of material and that material conducts water very
5 readily to the channel of Omak Creek and then the
6 water that is captured by Omak Creek flows northward
7 beyond Mission Creek and into the Okanogan River.

8 MR. MACK: May I approach that exhibit,
9 Your Honor, please.

10 THE COURT: Yes.

11 Q (By Mr. Mack) Now, Mr. Watson, and the record should
12 indicate I am referring to Colville Exhibit 7 and to
13 the portion of that that lies within the exterior
14 boundaries of the watershed as indicated thereon in
15 Section 9 and a portion of Section 8, you have testified
16 Mr. Watson, as to what happens to the precipitation
17 that falls in this, what looks to me as a blue area
18 within that section, and what happens to the
19 precipitation that falls to the west of the western
20 boundary line? What happens to the precipitation that
21 falls in the green area in that section?

22 A The precipitation that falls in the green area enters
23 the No Name Creek basin except during the periods that
24 I mentioned previously when the ground would be frozen
25 and the water cannot penetrate. The land is

1 sloping from east to west through the area that we're
2 talking about.

3 Q But is the green area frozen at times the blue area
4 isn't, or are they generally frozen about the same
5 amount of time; do you know?

6 A Well, the water only enters the green area, Mr. Mack.
7 Water flows off the blue area.

8 Q Yes.

9 A That is a granite material and it doesn't penetrate
10 that readily, but at such time as the water from the
11 blue area encounters the green area, in most times,
12 that water would be absorbed and transmitted to the
13 No Name Creek aquifer.

14 Q And does it enter what you have referred to as the
15 No Name Creek watershed solely as vertical percolation
16 into the groundwater aquifer, or does it enter also as
17 surface water runoff?

18 A Well, to the extent that there is surface water runoff
19 in this area, there is no contribution to No Name
20 Creek basin. By surface water runoff, you mean the
21 water that cannot be received by the materials at the
22 land surface and, therefore, the water is running off.
23 That water is not received, it is running downhill east
24 to west and would enter Omak Creek and then flow
25 northward, but water that can be received by this

1 material does enter the materials and percolate
2 downward to the aquifer.

3 Q So, to get the amount of water, the volume of water
4 that enters your system as described in the watershed
5 exhibit number 7, one would have to subtract the amount
6 of water that runs into Omak Creek west of your western
7 boundary from the amount of precipitation; isn't that
8 correct?

9 A No, I have to go back again to explain to you the way
10 the water supply determinations were made, Mr. Mack.
11 It was not necessary in the water supply determinations
12 that were made, as I have testified to, to have to take
13 into account these various contributions and their
14 magnitude. Certainly, I was interested in knowing how
15 much water was being contributed from Omak Creek and
16 how much water was being contributed from natural
17 precipitation in a state of nature, but the measurement
18 of the amount of water supply is based on the discharge
19 from the aquifer which is a very good indirect measure-
20 ment. It is the only way to measure the contribution
21 to the aquifer from all sources. It is very valid;
22 it's the most valid, appropriate technique that can be
23 undertaken, because it avoids having to make all the
24 assumptions that are expressed in U.S.A. Exhibit 3
25 with regard to nine or ten parameters of which only one

1 can be identified, and it's the only that can be
2 identified with any specificity as the amount of water
3 that was pumped from the aquifer. All those other
4 parameters are based on estimations.

5 Q In your opinion, is it generally better to use an
6 analysis that used fewer parameters to determine the
7 groundwater availability in this watershed; is that
8 correct?

9 A If the parameters are fewer and if those are the
10 appropriate parameters to measure.

11 Q Okay, now I don't want to belabor this, but I believe
12 you testified that precipitation falls in the area
13 which I just indicated, the northern extrusion, if you
14 will, of the watershed boundary as shown in Exhibit 7
15 and isn't it true that you testified that the water
16 that falls there through precipitation either enters
17 the groundwater aquifer in the green area as shown
18 there, or enters the Omak Creek to the west of the
19 western boundary of the watershed; isn't that correct?

20 A Yes, that is correct.

21 Q And that is a point of entry of water into the No Name
22 Creek aquifer; is it not?

23 A Yes, it is.

24 Q Could runoff calculations be -- could the calculations
25 be done to determine the amount of water entering the

1 Creek in just that one area of the watershed, entering
2 Omak Creek, from precipitation?

3 A Calculations could be made, yes.

4 Q And if you could calculate that, could you also
5 calculate the amount of water that would enter the
6 groundwater aquifer, as you have described it, of No
7 Name Creek in that one area?

8 A Yes.

9 Q And you haven't done that.

10 A Again, I have to point out, Mr. Mack, that that is a
11 very hypothetical situation that requires estimates. As
12 Mr. Cline testified, he went to Wisconsin to get
13 estimates of the amount of runoff that is derived from
14 precipitation. It was important because of the various
15 uncertainties involved in that kind of analysis to
16 actually take measurements and, again, I have to refer
17 back to the Colville Exhibit 25-1 --

18 Q Yes.

19 A -- which is now on the board, and which shows a
20 natural decline in the water level in November 1975
21 through March 1976 at which time there was insufficient
22 natural recharge to that aquifer to maintain the water
23 level in the aquifer and this is a five-month period
24 that we're talking about, in late 1975 and early 1976,
25 and that the amount of water coming out of the aquifer

1 .66 of a cfs which is equivalent to an annual rate of
2 about 425 cfs, and this is a very appropriate measure
3 of the amount of water coming in. We know that it was
4 less than .66 of a cfs because the ground water was
5 falling, and that is less than 425 acre-feet per year,
6 and the testimony that we have heard by myself is that
7 the firm annual water supply is 550 acre-feet which
8 recognizes that there may be more water available on a
9 firm basis than the 425 acre-feet that I have talked
10 about there.

11 Now, I'm sticking my neck out in saying that.
12 Here's an actual measurement of the amount of water
13 over a long period of time during the last three years.
14 Now, the last three years, Mr. Mack, 1975, 1976 and
15 1977, precipitation in those three years was very near
16 normal precipitation for the three-year cycle. I
17 examined precipitation records that went back as far
18 as 1908 at Omak Weather Station and at the Omak II
19 Northwest Weather Station, and in the 69-year period
20 of record, from 1908 to 1977, there are 67 three-year
21 cycles, and of these 67 three-year cycles there were
22 31 that had a lower total precipitation than the
23 total precipitation in 1975, 1976 and 1977.

24 In 1928, 1929 and 1930 there was approximately
25 17 inches of total precipitation in those three years.

1 In 1975, 1976 and 1977 there was approximately 33
2 inches of total precipitation. This is a normal type
3 of situation, and I have gone so far as to say that
4 I recognize very explicitly that there are periods in
5 the record that are much dryer than the three-year
6 cycle that we have encountered and water shortages
7 much greater than the three-year cycle that has been
8 encountered can be expected, and you cannot design a
9 system to operate on a sustained basis except to
10 acknowledge that there are periods of dry cycles.

11 Q I heard your answer, Mr. Watson. My question was:
12 You did not calculate the amount of water entering the
13 groundwater aquifer for No Name Creek in that section
14 on Exhibit 7 which I have shown, and I believe your
15 answer to that was: Yes, you did not calculate it;
16 isn't that right?

17 A I didn't have to calculate it. I measured it.

18 I measured it as outflow from the aquifer. The
19 outflow from the aquifer includes all sources and that
20 was measured as a component. I did not separate it
21 out of that measurement.

22 Q You measured outflow; you didn't measure inflow; did
23 you, in that section? That's all I really want to get
24 at. You determined inflow based on your measurement
25 of some outflow later on down in the watershed; isn't

1 that correct?

2 A That is right.

3 Q Rather than measuring inflow.

4 A You can't measure the inflow.

5 Q Well, maybe I'm using the wrong --

6 A You can estimate--

7 Q You can calculate it, can you not? Your testimony

8 was you could calculate it, for the section I was

9 showing you, the northern-most section of the watershed.

10 A You can. It is not a reliable calculation.

11 Q But you didn't do it and the reason was it was too

12 hypothetical, in your view; wasn't it?

13 A It was far too hypothetical. We had to live with the

14 facts in the No Name Creek basin, and those are the

15 facts as demonstrated on Colville Exhibit 25-1

16 and Colville Exhibit 33-1.

17 Q Now, don't professional hydrologists commonly use

18 hypotheses and theories and projections in their work?

19 A They may commonly use hypotheses and projections, but

20 it depends, Mr. Mack, on whether or not the facts are

21 required or whether or not judgment for engineering

22 design or some other purpose is required. In this

23 case, facts were required and those are the facts.

24 Q Well, isn't it true, however, that you have used

25 hypotheses, theories and projections in your analysis?

1 A The hypothesis that I used in the analysis that I have
2 just described is the law of the conservation of mass.
3 It is a simple law of physics which says that the
4 amount of water coming into a system has to equal the
5 amount of water coming out of a system, plus or minus
6 the change in storage.

7 Here we are demonstrating that the change in stor-
8 age is decreasing, and, therefore, the amount coming
9 into the system has to be less than the amount going
10 out.

11 Q I think --

12 A It's a simple law of conservation of mass, and I don't
13 know who established it, maybe Newton or some other
14 physicist.

15 Q I didn't have it in law school. I assume it's not
16 in the statute books, it's a scientific deal.

17 Isn't it correct that you will use hypotheses
18 and theories and projections depending on the facts
19 you have and the particular you are applying to a
20 particular problem and hydrologists have to make those
21 decisions on a case-by-case basis and problem-by-
22 problem basis; isn't that right?

23 A In this situation I did not have to, Mr. Mack.

24 Q You made no hypotheses or theories or projections.

25 A The hypotheses that I made were to the extent that I

1 just described.

2 Q They are based on laws.

3 A Very simple laws of physics and very simple
4 observations.

5 Q And which exhibit -- you were referring to which
6 exhibit when you were giving me that answer?

7 A I'm referring to Colville Exhibit 25-1 and also
8 Colville Exhibit --

9 MR. MACK: May I approach that exhibit,
10 Your Honor?

11 THE COURT: You may.

12 A (By Mr. Mack) And referring your attention to
13 Exhibit 25-1, Mr. Watson, there is a red broken line;
14 is there not, which you have previously testified to
15 as a projection of the rise in the water level in the
16 Peters observation well for a period from 1977 through
17 1978, some months therein; isn't that correct?

18 If it isn't, state what it is, what that red
19 dotted line is.

20 A The red line is a straight line projection, I think
21 was the word that we used previously.

22 Q That was your term, but go ahead.

23 A Of the water level from February 3, 1978, to -- well,
24 I have the line extended to about April 19, 1978.

25 Q Did you have to determine a slope or some section of

1 slope for the 1977-78 line to determine where your
2 straight line projection would go?

3 A No, I simply observed the rate of rise in the water
4 level beginning in late 1977 as shown on the exhibit
5 extending forward into early January 1978, extending to
6 February 3, 1978, and I extended the line from there
7 on the same slope as was experienced from January
8 through February, but in my testimony I indicated
9 that there is very little discharge from the aquifer
10 now and that there has been very little discharge from
11 the aquifer since the close of the 1977 irrigation
12 season, and that the rate of the rise in the aquifer
13 can be expected to decline as the water levels rise
14 higher because of a higher rate of discharge from the
15 aquifer.

16 Now, that was the relationship that was described
17 on one of the previous exhibits which shows the
18 relationship between the natural stream flow of No
19 Name Creek and the water levels in the No Name Creek
20 aquifer as measured in the Peters observation well.

21 Q And referring your attention to the same exhibit and
22 to the point on that exhibit where your red broken
23 line breaks off from the green line.

24 A Yes, sir.

25 Q Do you see the remaining green line which goes up like

1 this and then slopes and then breaks into a broken
2 blue line and goes on a downhill movement?

3 A Yes, I see that.

4 Q Is that a projection?

5 A That is a projection that reflects the fact -- and
6 that was the projection that I was referring to in our
7 last, in the last answer to your question -- that is
8 also a projection that reflects the fact that there
9 is going to be more water being discharged from the
10 aquifer as the water levels in the aquifer rise. So,
11 to expect a straight line projection, as shown by the
12 red line, is very unreasonable. There will be more
13 water flowing out of the aquifer and that will reduce
14 the rate of rise in the water level in the aquifer.

15 Q So the green line is a better one than the broken red
16 line; is that right?

17 A In my opinion, yes.

18 Q And that's a projection. Do you have -- did you have
19 to figure out a rate of slope or something of that
20 slope for the projected green line? How did you
21 determine it was going to fall below the broken red
22 line and to the right of it which it does? How did you
23 determine that?

24 A I determined that based on the rate of rise in the
25 aquifer once the aquifer reached its lowest level in

1 1976. I pointed out previously that on February 3,
2 1978, that the water level in the No Name Creek aquifer
3 as measured in the Peters observation well was more
4 than a foot and a half lower than the lowest water
5 level in 1976 after heavy pumping from the aquifer in
6 1976. After a period of five months -- four months --
7 of recovery, the aquifer is still one and half feet
8 and more lower than the lowest level experienced in
9 1976. Now, --

10 Q Let me interrupt you there. Which was at the end of
11 the pumping season; was it not, in 1976?

12 A Yes, it was.

13 Q Are we any where near a pumping season now?

14 A We are getting pretty close.

15 Q It hasn't begun, has it, Mr. Watson?

16 A No, it has not.

17 Q Go on.

18 A Where were we?

19 Q I don't know. Let me ask you this question.

20 You have continued that green line on a slope,
21 or rate.

22 A Yes, sir.

23 Q And the rate you used was the rate of increase for the
24 1976-77 water level rise instead of the 1977-78 rise;
25 correct?

1 A That is absolutely correct. Again, you have to
2 understand, Mr. Mack, that this is a rate of rise that
3 is projected from the period from January '78 to
4 February '78. The red line is an extension of that
5 rate of rise, and we know that it can't be that high
6 because of the fact that there will be more water
7 discharged as the water levels rise in the aquifer.

8 Now, if by some circumstance that I'm unaware of
9 presently, there was a tremendous amount of precipita-
10 tion, that rate of rise could be exceeded. But that is
11 a very hypothetical situation at this point.

12 Q Mr. Watson, is it fair to say that you have used to
13 project the remainder of the 1977 to '78 water level
14 rise in the Peters well, the rate of rise in 1976 and
15 '77 rather than the 1977-78 rate of rise that you know
16 of as of this date.

17 A From -- it is not correct to say that. From the
18 point where the aquifer would recover from its lowest
19 level in 1976 which is shown on this projection on
20 February 25, 1978, from that point the rate of recovery
21 that I have shown from February 25, 1978, out to the
22 first week or the second week in April is projected on
23 the same rate of increase in the water level from the
24 lowest water level in 1976 and 1977. In other words,
25 if you projected the rate of rise from October 10, 1977,

1 and just took this and transferred it over into the
2 projection for 1978, that rate of rise would be the
3 same, from February 25, about six weeks before the
4 start of the irrigation season.

5 Q Well, let me just ask you this: For the actual figures
6 that you know of, that is to say, the actual water
7 level measurements for both those periods of years,
8 isn't it fair to say that the water level in the Peters
9 observation well for the 1977-78 period has risen more
10 steeply than it did in the 1976-77 period?

11 A It is fair to say that, but it has not reached the
12 lowest level that it was in 1976.

13 Q I understand that but up to date it has risen much
14 more steeply; has it not?

15 A That's because water has not been flowing out of the
16 aquifer. Everything has been running into the aquifer.
17 There hasn't been any discharge out. It has been
18 stored.

19 Q In your opinion, it will stop rising that steeply.

20 A Absolutely.

21 Q In fact, you have it projected to stop rising that
22 steeply tomorrow; don't you? I've lost track of the
23 dates, but it looks like February 11 on that exhibit
24 that it is going to stop rising. It's according to
25 your projection, and it's hypothetical. I understand.

1 A Every day the water level rises there is more discharge
2 from the aquifer in natural stream flow, so every day
3 that the water rises -- if the same amount of water
4 was coming in during that period of time, as the water
5 level rises and allows enough energy to produce more
6 stream flow to the natural flow of the creek, then the
7 rate of rise is going to decrease because of the
8 discharge of more water out the south end.

9 MR. MACK: I'll move off that, Your Honor.
10 May I put the water budget up?

11 THE COURT: You may.

12 MR. MACK: Can you help me?

13 THE WITNESS: Sure.

14 Q (By Mr. Mack) Now, I refer you to the United States
15 Exhibit No. 3 which is the water budget prepared by
16 Mr. Cline. You have testified as to your opinion, I
17 believe, of the unreliability, I think that's a fair
18 word, of some of the numbers in that water budget; is
19 that correct?

20 A I think to all of the numbers with the exception of
21 the pumping from the wells.

22 Q You believe every number on there is unreliable except
23 for the water pumping figure.

24 A Absolutely. Every number in there is an estimate.

25 Q Could you go through those, please, starting with what

1 is -- let's start with a five-month period. First,
2 what is marked OCL, Omak Creek Leakage, the figure
3 given there is 240 acre-feet. Is that an inaccurate
4 figure? I assume it is. You said it is -- unreliable,
5 I mean.

6 A Yes, sir.

7 Q And why is that unreliable?

8 THE COURT: Counsel, I have got to give you
9 a lot of leeway on cross-examination because I have no
10 way of knowing what you're driving at, but so far we've
11 plowed the same ground so many times, I don't know if
12 we're learning much. I can't cut you off because I
13 don't know what you're driving at.

14 MR. MACK: Your Honor, I could shorten this,
15 if this is the case. My notes indicate that some of
16 those figures were testified to as being unreliable,
17 but not all of them.

18 THE COURT: Go ahead.

19 A Just for clarification on that, Mr. Mack, in my opinion,
20 every number in this water budget is unreliable with
21 the exception of P, which is the pumpage of groundwater,
22 There are one, two, three, four, five, six, seven,
23 eight, nine parameters in this equation for the water
24 budget. In my opinion, one of those nine is a
25 reliable number.

1 Q Yes, and as I said to the Court, and I don't really
2 want to belabor this, my notes indicate that you
3 testified as to only some of the other numbers as to
4 why they were unreliable and I was wondering if they
5 are all unreliable, what is your basis for determining
6 that for each one.

7 A I will give you a basis.

8 Q Well, that's what I'm interested in.

9 A You referred to the Omak Creek Leakage which I assume
10 Mr. Cline means as infiltration from Omak Creek.
11 The way Omak Creek Leakage was determined by Mr. Cline
12 was simply by taking the measurements of the surface
13 flow of Omak Creek at two sites before his hypothetical
14 movement of the groundwater in a northward direction
15 and those two sites were sites 1 and 5 as shown on
16 Colville Exhibit No. 10, which is the surface water
17 monitoring and management system, December 1977.

18 Now, site 1 is located near a footbridge below
19 an area referred to as the Falls on Omak Creek. Site 5
20 is located at a point which the U.S.G.S. describes as --

21 Q Well, whatever, it's on there.

22 A Anyway, it's number 5 here. Let me read that. I'll
23 tell you, here. That's Omak Creek near Paschal Sherman
24 School abandoned domestic well.

25 Now, the U.S.G.S. has relied on the difference in

1 stream flow at those two points and I checked this
2 out very extensively. They have taken the stream flow
3 measurement with a current meter at site 1, determined
4 the discharge on the basis of their computations from
5 the current meter. They have gone down to site 5 and
6 they have made the same kind of measurement and they
7 have taken the difference between those two measurements
8 and said that that is the leakage from Omak Creek to
9 the No Name Creek aquifer.

10 Now, I examined very carefully the differences in
11 the numbers, in the measurements, that were performed
12 by United States Geological Survey. They averaged --
13 there were nine measurements they relied on to make
14 their determination that there was .8 of a cfs
15 leakage from Omak Creek, and every time I use "leakage"
16 in this discussion, I'm referring to the language of
17 the U.S.G.S., I get a statistical analysis of that to
18 determine the reliability of those measurements. A
19 point estimate of .8 of a cfs is no good unless you
20 know the reliability of the measurements, and there
21 were wide disparities in the differences that were
22 calculated between those two points, so in my opinion,
23 it was necessary to undertake an investigation to
24 develop some level of confidence in those measurements.

25 Q Did you do that?

1 A Yes, I did.

2 Q What was the result of that?

3 A The result was that I was 50 percent confident,
4 Mr. Mack, --

5 Q Yes, I'm listening.

6 A -- that the leakage was as little as .25 of a cfs.
7 That's not very much confidence, so I also made a
8 statistical determination at a 95 percent confidence
9 level and I determined that, in fact, on the basis of
10 the measurements of the U.S.G.S., just using pure
11 statistics, a statistical analysis of the confidence
12 in the difference between the measurements in site 1
13 and 5, I found that I was 95 percent confident that
14 the difference in flow between sites 1 and 5 could
15 have been a gain in flow of .91 of a cfs.

16 That's one of the reasons.

17 Q Did you ever observe that creek during the period for
18 which that water budget speaks, that is to say, 1977?

19 A Yes, I did.

20 Q Could you, based on your observations at all, state
21 whether you believe -- and if you can't, just say so --
22 state whether that creek had a net gain or net flow
23 loss?

24 A In my opinion, there was a net loss.

25 Q Did you ever compare that conclusion to your 95 percent

1 confidence that there was a gain in flow of .91 cfs?

2 A Yes, I did.

3 Q What conclusion did you draw after comparison?

4 A My conclusion was that there was a net gain, but my
5 conclusion was, also, that there could be no liability
6 placed in the determination of an average leakage as
7 made by the U. S. Geological Survey. Now, there are
8 reasons for that.

9 Q Well, go ahead.

10 A The measurements were so widely varied. One measurement
11 was .24, if I remember correctly. Another measurement
12 was 1.3, if I remember correctly. There was simply an
13 averaging of the differences that the U.S.G.S. used to
14 develop the .8 cfs. Now, I recognize that there was
15 loss of flow. I deny that it can be measured as the
16 difference between locations 1 and 5 because of the
17 unreliability of the stream flow measurements, first.
18 Again, a stream flow measurement is a computation
19 based on a number of velocity observations in the
20 stream, and knowing the geometric properties of that
21 stream, namely the width and the depth and the
22 velocity at certain sections across the stream, and a
23 current meter is not designed for an accuracy that
24 would give such precision in these kinds of differences.
25 Now, another reason is that the U.S.G.S. simply took

1 the measurements between 1 and 5, the difference in
2 the stream flow. They did not take into account
3 evapotranspiration that occurs along the stream and
4 they did not take into account the fact that the
5 alluvium of Omak Creek has the capability to transmit
6 water that does not appear at the surfact. So, the
7 U.S.G.S. made its determinations based on the measure-
8 ments between 1 and 5. They didn't take into account
9 evaporation. They didn't take into account subsurface
10 flow through the alluvium. The measurements that they
11 took were unreliable for the purposes of determining
12 differences between flows at those two points.

13 MR. SWEENEY: Excuse me.

14 THE COURT: Mr. Sweeney.

15 MR. SWEENEY: Because it is really my
16 exhibit that is being discussed here, I think it should
17 be pointed out that the U.S.G.S. did a lot more than
18 what Mr. Watson is saying that they rarely took these
19 readings. They also had all the readings in those
20 test holes up above, but --

21 MR. VEEDER: Well, just a moment, Your
22 Honor. If Mr. Sweeney wants to be sworn and put on
23 the stand, I would like to cross-examine.

24 THE COURT: I'm going to ignore his remarks
25 because Mr. Cline gave his testimony as to the basis on

1 which he put together this water budget. I remember
2 that.

3 MR. MACK: Your Honor, the reason I'm going
4 into this, if it needs explanation, is that I think it
5 may be important to the final determination of this
6 case as to whether the various estimates produced by
7 the various experts are accurate, and I think some of
8 the crucial issues, possibly, may rely on this, so I
9 would beg your pardon.

10 THE COURT: I recognize that. Go ahead.

11 MR. MACK: Thank you.

12 Q Just to shorten this for today, Mr. Watson, did you
13 come up with a figure, yourself, for Omak Creek
14 leakage?

15 A Yes, I did.

16 Q What was that figure?

17 A 375 acre-feet.

18 Q And how did you come up with that?

19 A First I should state the reason I came up with that.

20 Q Well, why don't you answer my question first, then
21 give me the reason.

22 A The way I contributed the contribution from Omak Creek
23 was described during the testimony of Mr. Price. I
24 took the period from January 1977, from January 31,
25 1977, to April 19, 1977. Now, the reason I selected

1 this period was because the U.S.G.S. had taken water
2 level measurements on both of those days, January 31
3 and April 19. They had also taken miscellaneous stream
4 flow measurements on those dates. That was not
5 particularly relevant to what I did. But the relevant--
6 Q You meant relevant; didn't you? That was particularly
7 relevant, is what you meant. It may come out as
8 irrelevant, that's why I want to --
9 A That was not particularly relevant; yes.
10 The reason for the selection of the period was
11 because of the measurements of the water levels, and
12 also because there was no -- very little change in the
13 water levels between January 31 and April 19. Now, as
14 shown on the previous exhibit --
15 Q May I just interrupt for a second.
16 Are you saying you took the stream flow measure-
17 ments for that period?
18 A No, water level measurements.
19 Q Where? In Omak Creek?
20 A No, water level measurements in the No Name Creek
21 aquifer in all of the wells that penetrate --
22 Q To determine the amount of water leaking from Omak
23 Creek. That's the question I wanted; I'm just hoping
24 you're going that way. That's how you came to a
25 determination; is it?

1 A Yes.

2 Q Okay.

3 A I'm giving you the background on how I came to the
4 determination of the amount of water in Omak Creek
5 which wasn't essential in my analysis. I did it
6 because I knew it was going to come up.

7 But the period I selected was because there was
8 no significant change in storage in the aquifer during
9 this period. On April 19 and on January 31, 1977,
10 the water levels in the aquifer were essentially the
11 same. There were slight differences in the water level
12 in the wells, but for the most part the water levels
13 were the same.

14 Now the significance of selecting that period of
15 time was that the amount of water coming into the
16 system was very close to the amount of water going out
17 of the system, and by "the system" I mean the No
18 Name Creek aquifer.

19 Q I understand.

20 A And this is the amount of water from all sources.
21 It's the amount of water from Omak Creek and it's the
22 amount of water from precipitation.

23 Q And you had to parcel those out in order to come up
24 with the figures for the same elements of the equation
25 used by the U.S.G.S. for its water budget; isn't that

1 right? You came up with one big figure based on
2 water level, water table measurements and then you
3 had to parcel that out to get, for example, Omak Creek
4 leakage figure; isn't that correct? I think that's
5 what you said. If it isn't, go ahead and --.

6 A I'm not sure I followed you, but I'll go ahead and
7 explain.

8 During this period, and we introduced an exhibit
9 on this previously. I think it's 17-1?

10 Q I don't know.

11 A 17-3.

12 During the period from January 31 to April 19 we
13 had a measure of the runoff from precipitation between
14 No Name Creek below Mr. Walton's surface diversion and
15 No Name Creek, granite lip, and also, if my memory
16 serves me, measurement sites 15 and 17.

17 Now, the measurement of the runoff from precipita-
18 tion during that period is shown on exhibit 17-3 by
19 the green shaded area. Now, there are 926 acres in
20 the watershed area that contributes between those two
21 points.

22 And now I'm going back to the watershed map,
23 Colville Exhibit No. 7, which shows the watershed area
24 segment two, again, formed by the boundaries at
25 measurement sites 15 and 17. So, I had a measurement of

1 the precipitation runoff. There are 256 acres in
2 watershed segment number six and 534 acres in watershed
3 segment number five.

4 Q Yes.

5 A And those two areas, in my opinion, are the
6 contributors of natural runoff from precipitation to
7 the No Name Creek aquifer.

8 Q Now, Mr. Watson, the precipitation that falls and
9 eventually becomes surface flow in Omak Creek to the
10 east of your watershed boundary -- let me ask you this.

11 Is there precipitation that falls to the east of
12 your watershed boundary that becomes part of the
13 surface flow of Omak Creek?

14 A Precipitation to the east of the watershed boundary
15 that becomes --

16 Q Yes.

17 A Yes.

18 Q Do you know how far east?

19 A As far east as the easterly boundary of the Omak
20 Creek watershed.

21 Q Do you have any idea how much water enters the stream
22 at all those points and is lost before entering your
23 watershed boundary?

24 A And is lost, Mr. Mack?

25 Q Well, let me ask you this. Do you know the stream

1 flow of Omak Creek that is entering your watershed?

2 At the eastern boundary.

3 A I know that there was essentially none in 1977 for
4 a period.

5 Q Well, you know that the U.S.G.S. surveyed it; do you
6 not?

7 A Yes, I do.

8 Q Measured it.

9 A Yes.

10 Q And you say those measurements are unreliable to give
11 you quantities.

12 A Yes.

13 Q Let me just, because I think there may be something
14 else coming up after this fairly soon, let me just ask
15 you briefly.

16 Was that the only surface water measurement that
17 is unreliable or were other surface water measurements
18 done by the U.S.G.S. unreliable?

19 A The measurements -- let me be very clear on this, Mr.
20 Mack.

21 Q Oh, please do. That's what I want.

22 A The measurements of the difference in flow between
23 sites 1 and 5 is very unreliable as indicated by the
24 statistical analysis, and there is nothing fancy about
25 a statistical analysis. All you do is take your data

1 and determine --

2 Q You've already testified to that, Mr. Watson. What I

3 asked you was -- I know that was unreliable, in your

4 opinion. Are there other surface water measurements

5 made during this study that are unreliable elsewhere

6 in the watershed?

7 A There are other surface water measurements, in my

8 opinion, that are imprecise and inaccurate.

9 Q For No Name Creek?

10 A For No Name Creek.

11 Q Between which points?

12 A In my opinion, there are inaccurate and imprecise

13 measurements of surface water at site 9 as shown on

14 watershed map, Colville Exhibit 7, at site 15, at site

15 12 and at site 17. Site 12 shows on Colville Exhibit

16 No. -- I don't recall the number right now. It's the

17 surface water monitoring and management system exhibit.

18 MR. VEEDER: Number 10; isn't it.

19 MR. MACK: Your Honor, I've got a few more

20 questions, but --.

21 MR. VEEDER: I would like to offer that, Your

22 Honor.

23 THE COURT: 10 was identified. It has never

24 been admitted.

25 MR. VEEDER: That's right. I'd just like to

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offer it now.

MR. MACK: Which one is 10?

THE COURT: Surface Water Measuring.

MR. MACK: May I approach.

THE COURT: Is that 10 you have?

MR. MACK: Yes, sir.

THE COURT: Does any counsel have objection to the admission of 10?

MR. SWEENEY: Could I look at that a little more closely, Your Honor?

THE COURT: Go ahead. It purports to show the sites at which surface water measurements took place.

MR. SWEENEY: Well, we have no objection.

THE COURT: Mr. Price?

MR. PRICE: I have no objection.

THE COURT: No. 10 will be admitted, Tribe's 10.

(Colville Exhibit No. 10 is admitted.)

Q (By Mr. Mack) Mr. Watson, just to finish with this, you have problems with the leakage from Omak Creek; is that a poor phrase to use, in your opinion, in analyzing this system?

A When you are referring to leakage from Omak Creek as

1 the total difference in stream flow between sites 1 and
2 5, I have considerable trouble, because the leakage
3 implies that all the water that is being measured as
4 a difference in stream flow between those points enters
5 the No Name Creek aquifer, and that is absolutely
6 incorrect. Some is lost to evapotranspiration and
7 other amounts of surface flow are lost to subsurface
8 flow.

9 Q But, acknowledging that, you would use the term,
10 would you not, "leakage from Omak Creek," understanding
11 those limitations?

12 A I like to use the word "infiltration."

13 Q You prefer that word?

14 A Yes.

15 Q Is there any point or series of points at which
16 infiltration of waters from Omak Creek enter your,
17 as you've defined, the No Name Creek groundwater aquifer
18 and could you please indicate on any exhibit you choose
19 what those points are.

20 THE COURT: Just a moment. Mr. Price?

21 Did you have an objection?

22 MR. PRICE: A comment, Your Honor. In a line
23 between ecstasy and agony, I think I'm approaching
24 agony, and I'm wondering if the hour of the day is
25 appropriate for us to adjourn and take other matters up.

1 THE COURT: Well, I understood counsel to
2 ask that we recess at 4:30 and take up the matter of
3 where we are and when we will be back to it, so I
4 guess that's where we're at. We'll never finish the
5 cross-examination of this witness if we ran another
6 couple of hours.

7 MR. MACK: I believe that's correct, Your
8 Honor, and I leave it up to you whether you want to
9 take the time for an answer or wait on that.

10 MR. VEEDER: Did I hear correctly, two more
11 hours of cross-examination?

12 THE COURT: I made the comment that I
13 suspected that we would not finish cross-examination
14 within the next two hours. Therefore, I think I
15 better accede to counsel's earlier request that we
16 recess at 4:30 and take up the matter of scheduling
17 the rest of this case.

18 MR. MACK: Thank you, Your Honor, I apologize
19 for running over.

20 THE COURT: That's all right. I have one
21 problem. Do you want to discuss the problems we face
22 in chambers or do you want to put it on the record?

23 MR. SWEENEY: I'm going to request that it
24 be put on the record, Your Honor.

25 THE COURT: Very good. Then the witness

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may step down.

(Witness is excused.)

MR. VEEDER: I haven't yet offered 7. I can't put that in, Your Honor until I have a geologist. So, I think that is the last one I have.

THE COURT: That's the watershed map.

MR. VEEDER: Right, and I have a geologist on that.

THE COURT: Well, gentlemen, we're in this posture: We have run out of the scheduled time this week, and as I previously indicated to you, the Court doesn't have any time for the next two or three weeks, at least, to take up this case. I can give you some possible dates, all of which would be tentative. It would be firm, subject to requirements of trials of criminal matters under the Speedy Trial Act. I will put no other civil case in ahead of this, but I would have to bump any setting that I give you now if we run into problems under the Criminal Speedy Trial Act, so, Mr. Sweeney?

MR. SWEENEY: Well, Your Honor, I was just going to mention that I have talked to counsel for Mr. Walton, Mr. Price, and also counsel for the State of Washington and I think we can see that Mr. Veeder's presentation from now on will probably take at least

1 an additional day because I understand he has three or
2 possibly four witnesses remaining, and calculating what
3 some of the other parties may have to present, we're
4 looking at maybe almost six days or maybe more than
5 that. Maybe eight days of testimony on this matter.

6 THE COURT: Well, that leaves a couple of
7 possibilities. One is that we have two further
8 sessions of the trial, because I don't have an eight-
9 day period that is open. I can find two four-day
10 periods or we can get over into April and that is so
11 far away that I can't tell where I am, but I can try
12 and hold out eight straight days and, in essence,
13 that's two weeks, because every Monday is out. I have
14 to take care of all the motion matters and all criminal
15 matters on Monday. So, we're talking about a week being
16 a four-day session.

17 So, those are our possibilities, gentlemen.

18 MR. VEEDER: Well, what are your first four
19 days, Your Honor?

20 THE COURT: The first four days would be
21 March 14. That's kind of iffy, but I can try that.
22 The week of March 21 for four days looks pretty good.
23 And then I have a week open at the present time,
24 April 4, which again is four days.

25 MR. VEEDER: I would like very much to pick

1 up the first four days so we can get at this, Your
2 Honor, and get back and get in as much as we can.
3 I understand your calendar. I understand the pressures,
4 but I do believe that what we are confronted with is
5 the reality of the exhibits showing a short water
6 supply, and I would like to get my case in and have
7 the world know what we have got to offer. I don't
8 know where they get eight more days, but so be it.
9 I would like to get here and get this thing going and
10 get ours done.

11 MR. SWEENEY: Your Honor, we vote for the
12 March 21 four-day slot there. I have talked with Mr.
13 Burchette and maybe we can do something that might help.
14 Could I ask Mr. Burchette to address the Court?

15 THE COURT: Yes.

16 MR. BURCHETTE: Your Honor, during this past
17 week we have been listening to evidence which relates
18 to the availability of water in this basin, and we've
19 also been listening to evidence which relates to the
20 uses of water by the Tribe and by Mr. Walton, and also
21 the projected uses that the Tribe might have for the
22 water. We recognize, too, that we want to expedite the
23 matter, both from the standpoint of Mr. Walton and from
24 the standpoint of the Tribe.

25 I think what I'm getting to is perhaps a suggestion

1 as to how we might best do that to resolve the matter
2 completely, and perhaps rather than making a suggestion,
3 I should do it in the form of a motion, which I will do.

4 I would propose, the Government would propose that
5 we move for partial summary judgment as to those
6 questions of law which could be addressed and could be
7 answered irrespective of the facts. Certainly, the
8 facts have to be on the record. We have to know how
9 much water is available; we have to know what the
10 Indian uses are, to make the final determination. But
11 the questions of jurisdiction et cetera, could best be
12 handled by a motion for partial summary judgment.

13 What I'm suggesting is this: That the Government
14 would move for partial summary judgment that the
15 creation of the Colville Indian Reservation in 1872
16 reserved for the Colville Confederated Tribe and its
17 members, as a matter of law, the amount of water
18 necessary to satisfy the future as well as the present
19 needs of the Reservation with an effective date as of
20 the date of the creation of the Reservation.

21 Also, we would move that the allotment of the lands
22 of the Colville Indian Reservation pursuant to the
23 General Allotment Act of 1887 that each allottee of the
24 land with the right to use of water necessary for the
25 allottee's needs with a priority date as the date of

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the Reservation.

With respect to the issue of the transfer of lands to the non-Indian, we would move for partial summary judgment that at the time of the transfer of Indian allotted land to the non-Indian ownership, the non-Indian would be entitled to the right to use of whatever quantity of water was being utilized by the previous Indian allottee when the land was removed from trust status, and this water right would have a priority date also as of the date of the creation of the Reservation.

We would move for partial summary judgment that following the transfer of land from Indian to non-Indian ownership, the successor's right to the use of water would be predicated on the application of the water to a beneficial use upon the lands with a priority date as of the date of the use.

We would move that the rights of the Colville Confederated Tribes and its members to the use of waters within No Name Creek have a priority date of 1872; that as a matter of law, this right is prior and paramount to, the rights of the Waltons to the use of the water of the lands in the No Name Creek valley.

And, lastly, that the State of Washington, would have no jurisdiction or authority to control or

1 regulate the use of water on lands within the exterior
2 boundaries of the Colville Indian Reservation whether
3 such lands are trust lands owned by the United States
4 or fee lands owned by Indians or non-Indians.

5 Now, Your Honor, there is one other issue which
6 you have brought up on occasion, I know in talking to
7 Mr. Sweeney, and that is with respect to the
8 jurisdictional question between the United States and
9 the Tribe. Now, in moving for partial summary
10 judgment we would also address that particular issue
11 and state the position of the Federal Government with
12 respect to that question. And what I'm getting at,
13 Your Honor, if we take the date March 21, what we
14 would propose to do is that we would file a brief in
15 support of our motion for partial summary judgment by
16 the 1st of March, then allow the other parties to have
17 until the 17th of March to respond to that brief, and
18 then when we come back on the 21st, I would suggest
19 that we take some time out initially and let's argue
20 these questions of law, because the way I view the way
21 we are proceeding now, it's very difficult to get to
22 the real questions of law. We are intermingling the
23 facts with the law and it is difficult to understand
24 where we are coming out. Now, granted, we still have
25 to go forward with the factual determination, but as a

1 judicial economy in getting to the bottom of the matter,
2 it just seemed to the Government that this is probably
3 a way to proceed that would allow the Court to see the
4 issues, see the facts, and then be able to make a
5 determination, because as we view it, the question of
6 the jurisdiction, the question of the nature of the
7 Indian and non-Indian rights in this case are questions
8 of law which do not relate to the factual matters which
9 are being determined here today, or are being set forth
10 this week, and which would come to pass whenever we
11 convene again.

12 So, with that, Your Honor, I would put it in the
13 form of a motion, but it is also in the form of a
14 suggestion to the Court as a way to proceed.

15 THE COURT: Well, I think that each and
16 every issue that you have just delineated have been in
17 the case. Most of them and I think all of them have
18 been raised by previous motions which we really didn't
19 get to before we got to trial in this matter.

20 I also recognize that most of these issues have
21 been covered by your previous briefs, but, of course,
22 over the years sometimes they get lost, so I think what
23 you are suggesting, if I try and rephrase what you are
24 suggesting, that before the next session of this trial,
25 that we try and finalize those issues which have been

1 in this case all along that are purely matters of law,
2 and that would have to include the matters raised
3 this morning by Mr. Price, that is, what amounts to
4 a motion to dismiss on the grounds of absence of
5 indispensable parties.

6 MR. BURCHETTE: With respect to that, Your Honor,
7 I would suggest that given the scenario that I have
8 just set forth, that Mr. Price begin and have his
9 brief to us as of March 1 and we would have until
10 March 17 to respond to his two questions which he
11 raised this morning.

12 I'm just trying to look at a way to expedite the
13 matter, if you will, Your Honor.

14 MR. PRICE: Your Honor.

15 THE COURT: Mr. Price.

16 MR. PRICE: Could I respond to just one of those
17 points?

18 THE COURT: Yes.

19 MR. PRICE: We intend, in our case in chief, to
20 go into some depth into the factual background behind
21 the debate and adoption of the General Allotment Act
22 as to what we think are factual matters to assist the
23 Court in making a determination of what the purpose
24 of that Act was. Now, before this Court decides as
25 a matter of law as to the purpose of the General

1 Allotment Act, I think we, as has been done on other
2 Indian water rights cases, the legislative history has
3 gone in as a factual question before the Court makes a
4 determination, and we do want that right to put that
5 testimony, not testimony, but evidence and the record
6 in before Your Honor makes a determination on that
7 question.

8 THE COURT: Counsel, it's a new concept to
9 me that the legislative record is a factual question.
10 It seems to me that's a matter when the Court has to
11 construe legislative action, the Court looks at that as
12 part of the construction of the statute.

13 MR. PRICE: That's correct, Your Honor.

14 THE COURT: And, therefore, you can present
15 that in brief form.

16 MR. PRICE: All right, in other words, the
17 exhibits the Court would accept in brief form.

18 THE COURT: Absolutely.

19 MR. PRICE: And the only other testimony we'd
20 have beyond that -- If I might have a moment.

21 THE COURT: I think I know what's bothering
22 you, and I can't foreclose is that in your examination,
23 -- this is any counsel -- in your examination of the
24 issues raised by the current motions before the Court
25 you may respond if you find you think there is

1 factual issues before it can be decided. I don't want
2 to foreclose that.

3 MR. PRICE: I would accept that as a legal
4 opportunity, Your Honor. Thank you.

5 THE COURT: The State next and then I'll come
6 back to Mr. Veeder.

7 MR. MACK: Your Honor, this motion, I must
8 say, comes as a surprise to the State, at least to me,
9 but the State's position in a nutshell, I suppose, has
10 always been that the questions of law that this Court
11 has been asked to decide in this case cannot be
12 decided absent the facts that are in dispute and I
13 think Your Honor probably understands our theory by
14 now after all these file after file has been filled
15 with documents from all the parties.

16 With regard to the schedule, I must say that the
17 State would be in the unique position of having to
18 respond not only to Mr. Burchette's motion which has
19 come as a surprise, but to Mr. Price's which is equally
20 a surprise. We are somewhere in the middle on that.

21 My preference, frankly, would be that -- would be
22 for the April date for the arguments. I just think,
23 knowing the way lawyers work and the time schedules and
24 the constraint this Court is under, it seems to me more
25 realistic to set up a briefing schedule if there is to

1 be one on this motion that would set the matter for
2 oral argument by April 4 rather than the March 21 date,
3 and from a selfish standpoint it could give the State
4 more time to research both motions both of which were
5 a surprise.

6 THE COURT: Well, Counsel, I just want to
7 remark one thing about that. I don't think there is
8 anything in the motions pending before me now that
9 haven't been pretty thoroughly briefed. My problem is
10 the briefs have come in over a period of three or four
11 years. Now, I either have to sit down, and I simply
12 don't have the time to do it, and go back through about
13 three feet of files here to try and find out what you
14 are trying to tell me, or ask you to pull your
15 previous briefings together and zero in on these
16 points.

17 I think you've covered all these, because I have
18 read them as they come in, but I can't assimilate them
19 all back that far.

20 MR. MACK: That may be true, Your Honor, and
21 I suppose all sides are going to have to rewrite what
22 they have already written. It seems to me, and it's
23 up to Your Honor the way you handle it, I don't know,
24 that as presently scheduled by Mr. Burchette, you
25 would be receiving the reply briefs of, for example,

1 the State three or two days, I guess it is, three
2 days before oral argument. If that's fine with you,
3 I suppose that's the way it will be, but my position
4 would be that the State would prefer the later, April
5 4, date. I think it just makes more sense, if the
6 issues are as important as the United States believes
7 them to be.

8 THE COURT: Well, the problem I have with
9 going to April 4 is, this gives us no leeway
10 whatsoever if we run into some problems, and I might
11 have to -- I might run into a docketing problem at
12 the last minute. Of course, maybe Congress will do
13 something to give us some help in the meantime, but
14 that's conjecture. So, I need to give a little lead
15 time here because by April 1 it is obvious you are
16 going to be into the critical time of the year in
17 this case, and, therefore, I think I need to keep
18 that much lead time available in case we run into an
19 emergency where I have to postpone the setting date,
20 so I'm reluctant to look at the date of April 4.
21 Well, Mr. Veeder, I haven't heard from you yet.

22 MR. VEEDER: Well, Your Honor, I may be
23 old fashioned about this. We had motion for partial
24 summary judgment in regard to State jurisdiction, in
25 regard to 25 U.S.C. 381 and in regard to the affirmative

1 defense interposed by Mr. Price. I would rather see
2 the facts going in and get it before Your Honor
3 because we have a pragmatic matter. We're going
4 into an irrigation season. There is no injunctive
5 relief like we had the monitoring and measuring
6 program last year. We've got to deliver water
7 downstream. Those are things with which we are
8 confronted. I think we all know what we think the
9 law is. I have no objection. I think I briefed a
10 lot of the law in regard my proposed findings of fact
11 and conclusions of law.

12 THE COURT: You did.

13 MR. VEEDER: I'm perfectly willing to go
14 along with that. But I do submit, Your Honor, and
15 I said before I would like to get as much evidence
16 in as we can on the 14th. If you want to go then to
17 the 21st, let's get the rest of the evidence in and
18 I submit, Your Honor, that we all agreed on what I
19 thought was a very pragmatic way.

20 There are these issues of law. They are before
21 Your Honor, and the issue of indispensable parties,
22 fine. I think you can raise a jurisdictional issue
23 at any time. You can raise one. Let him file his
24 briefs. But please, Your Honor, I respectfully
25 petition you, let us get this evidence in. I don't see

1 how it can take eight days, but I am perfectly -- the
2 big ones are in. The U.S.G.S. report is in.

3 THE COURT: Excuse me. Bailiff, would you
4 get me my docket book off my desk, please.

5 MR. VEEDER: Availability of water from our
6 standpoint is in. I can't see our geology taking very
7 much time, frankly. I'll put those in. I have got
8 Dr. Casmark and Dr. Robinson. The next we've got is
9 the issue of the water delivery to the Lahonton
10 cutthroat trout.

11 Now, it may be that we'll put in some evidence
12 with regard to Omak Creek. I don't know. It has been
13 raised so frequently I would like to show the
14 obligation of the Tribe on Omak Creek.

15 But why can't we get our evidence in when we are
16 confronted with an irrigation season that is very soon
17 to be upon us.

18 THE COURT: Mr. Veeder, I recognize all this,
19 and the reason I asked for my docket book, I suddenly
20 remembered that I have got a Grand Jury convening on
21 March 6. Under the Speedy Trial Act, within ten days
22 after that, if they return indictments, I'm under the
23 gun to see something is done about those cases. That
24 gets us right into that week of the 14th and to give
25 you a trial date here is almost kidding ourselves.

1 On the 21st I have the protection of having a
2 visiting judge at that time, so if we did run into
3 criminal problems, the chances of having to strike
4 this are very slim because I will have some help here.
5 So, to take these into consideration, I think the
6 only thing to do is to recess this case to March 21
7 which I feel can be quite firm under these circumstances
8 Mr. Veeder, I don't feel this is going to delay the
9 ultimate resolution because even if I moved this up
10 to the previous week, I still have the problem of
11 finding time to study your briefs and coming up with
12 the answers on the legal issues which have nothing
13 to do -- and there are many legal issues in this case
14 that have nothing to do with facts that are being
15 presented, and Mr. Burchette has indicated some of
16 those. They are issues which have been thoroughly
17 briefed by counsel over the past number of months
18 and even years.
19 So, I'm not too concerned about the shortage of
20 time between the projected, or the proposed date of
21 final briefs by the 17th and setting this for the 21st
22 because I have already read a lot of these. I just
23 need to get you fellows refreshing me pretty much on
24 your positions on these matters.
25 I'm going to set this, recess this trial until

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1 March 21. I'll set the briefing date, as suggested,
2 and, of course, this runs both ways, Mr. Price. You
3 have your motion for dismissal. Your opening briefs
4 by March 1st, any responsive briefs by the 17th. We
5 can argue those matters on the opening day of the
6 recessed trial on the 21st and, hopefully, get these
7 facts completed in that session of the trial.

8 MR. VEEDER: Your Honor, how long will that
9 session be?

10 THE COURT: It's a four-day session, however
11 let me look on the 28th. Well, it's a four-day
12 session. I have the Chamokane case scheduled to begin
13 on the 28th. That's the other Indian water case. So,
14 maybe I could consolidate these.

15 MR. VEEDER: Well, the arguments on Chamokane
16 are going to be very much the same as this, Your Honor.

17 THE COURT: I recognize that. That's why
18 I said, facetiously, we ought to consolidate them,
19 because the issues are very much the same.

20 But that brings me to the thing I said a while ago,
21 Mr. Veeder, that if we really get into a jam, then I can
22 move over to that April 4 date which I'm holding, if we
23 cannot finish the fact-finding in this case in the four
24 days on March 21.

25 MR. VEEDER: We are to proceed with some

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facts; is that right, Your Honor?

THE COURT: We'll go right ahead with this trial on the 21st. Now, I'm going to ask counsel, because it's obvious from the trial this week, that many of the exhibits counsel simply haven't gotten down and looked at, because we are wasting a lot of time while we go back and show the foundation. That ought to be done before you get in here. You fellows have seen these exhibits. You can go over them, and if you have got a legitimate question as to the authenticity of the exhibit, of course, I'll listen to it, but that hasn't happened here. It has been a case this week, and I understand this because the way the case has developed, it has been a case of where counsel has to go back and refresh themselves and then the exhibits ultimately have gone in, but you fellows can sit down before the 21st and go over these exhibits and we can save a lot of time in the introduction of exhibits. Then we can get right to the bottom line of these things and the experts can say what these exhibits mean and what their opinions are. I think, really, we can save some time by that.

MR. SWEENEY: I would suggest that counsel meet on the 20th, then, and go over these exhibits.

THE COURT: Well, that's a good suggestion

1 because the 21st is a Tuesday, because, you see,
2 Monday is our motion and criminal docket day, so as
3 long as you fellows have to come in here on the 21st
4 I guess it wouldn't hurt to come the 20th and get these
5 exhibits --.

6 MR. VEEDER: The geology we looked at on
7 March 11, 1976, and I would just as soon show it
8 again, Your Honor.

9 THE COURT: Well, because of the time
10 element, and I recognize this that everybody is busy,
11 and you look at something a year ago. I can't expect
12 counsel to sit here and say, yes, I recall that, and
13 I recognize that. So, I'm going to ask you before the
14 21st, and you do this at your own time schedules,
15 before the 21st any questions you have as to
16 admissibility of any exhibit be gotten right down to
17 the basic facts so we're not into something that after
18 you refresh yourself, then you agree that these are
19 all right, and I think it can save us a couple of
20 days in the total run of the rest of this case.

21 Anything further, gentlemen?

22 MR. SWEENEY: No, Your Honor. Thank you
23 very much.

24 THE COURT: Court will be adjourned.

25 (This trial is recessed until
 March 21, 1978.)

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C E R T I F I C A T E

I do hereby certify that the foregoing is a true and correct transcript of my notes taken in the entitled proceeding and on the date stated.

I further certify that the transcript was prepared by me or under my direction.



WAYNE C. LENHART

Official Court Reporter

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