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Deposition of Mike Kaczmarek

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FEB 24 1978

J. R. FALLOQUIST, Clerk
[Signature] Deputy

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UNITED STATES DISTRICT COURT
EASTERN DISTRICT OF WASHINGTON

COLVILLE CONFEDERATED TRIBES,

Plaintiff,

v

BOYD WALTON, JR., et ux, et al,

Defendants,

and

STATE OF WASHINGTON,

Defendant
Intervenor.

Civil No. 3421 ✓

UNITED STATES OF AMERICA,

Plaintiff,

v

WILLIAM BOYD WALTON, et ux, et al,

Defendants.

Civil No. 3831

DEPOSITION OF MIKE KACZMAREK

Deposition upon oral examination of Mike Kaczmarek,
taken at the request of the Defendant Intervenor, before
David Caviezel, a notary public, at Room 897E, Federal
Building, Spokane, Washington, commencing at or about 4:05
p.m., on January 5, 1978, pursuant to the Federal Rules of
Civil Procedure.

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APPEARANCES:

FOR THE PLAINTIFF
COLVILLE CONFEDERATED
TRIBES:

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MIKE KACZMAREK

called as a witness at the request of
the Defendant Intervenor, having been
first duly sworn according to law, did
testify as follows herein:

EXAMINATION

BY MS. ECKERT:

Q. Mr. Kaczmarek, will you state your full name for the record, please?

A. Michael B. Kaczmarek, and Kaczmarek is spelled K-A-C-Z-M-A-R-E-K.

Q. Mr. Kaczmarek, where do you presently reside?

A. In Helena, Montana.

Q. And are you presently employed?

A. Yes, I am.

Q. By whom?

A. By Morrison Maierle, Incorporated, consulting engineers.

Q. In what capacity with Morrison Maierle?

A. I am a chief geologist with Morrison Maierle.

Q. Would you briefly tell us your educational background since high school?

A. Since I left high school I went to school at Montana State University in Bozeman, Montana where I received a bachelor's degree in geology in 1968. Following that degree I spent four years with the U. S. Army Corps of Engineers as a commissioned officer. Following that I returned to graduate school at Montana State University where I received a master's degree in geology. During that time I worked for the State of Montana as a graduate

1 teaching assistant and also as a consultant for the Montana
2 Power Company. Following receipt of that degree in 1974 I
3 began work for Morrison Maierle where I've worked since.

4 Q. Okay. Now, in the course of your employment
5 with Morrison Maierle have you had occasion to become
6 familiar with the area known as the No Name Creek Basin on
7 the Colville Indian Reservation, Washington State?

8 A. Yes, I have.

9 Q. Okay. Would you briefly explain to us how you
10 came to be familiar with that area?

11 A. Well, I became familiar with that area
12 through the course of conducting very intensive geologic
13 investigations in that area for approximately the last two
14 and a half years.

15 Q. Okay. That would be from what, mid-'75?

16 A. I believe that's correct. I believe from
17 the end of July, 1975.

18 Q. Okay, and those studies were performed on
19 behalf of the Colville Indian Nation, Tribes?

20 A. On behalf of the Colville Confederated
21 Tribes, that's correct.

22 Q. Now, let's see. When you say you've done
23 intensive geological studies, are you referring to field
24 studies in the No Name Creek Basin?

25 A. In part.

1 Q. Okay, and what else do you have reference to?

2 A. Well, my responsibilities to the Colville
3 Confederated Tribes has been to perform investigations
4 relating to the distribution and availability of ground
5 water in No Name Creek Basin as pertains to the water
6 supply.

7 Q. Okay, and that relates to both ground and
8 surface water supplies?

9 A. My responsibilities relate primarily to
10 ground water as it affects surface water.

11 Q. Now, you were present this morning when Mr.
12 Watson testified about how the watershed boundary that's
13 shown on Exhibit No. 1 and 2 was developed?

14 A. Yes, that's right.

15 Q. And do you disagree with any of his testimony
16 in relation to how that line was developed?

17 A. No, absolutely not.

18 Q. Now, in addition to the geologic study that
19 you performed, were you also responsible for the determina-
20 tion of what additional acres could be irrigated in the No
21 Name Creek Basin, specifically, on Allotments 526, 892, 901,
22 and 903?

23 A. I was responsible for determining the total
24 amount of irrigable acres within those allotments.

25 Q. Okay. Now, in determining irrigable acres

1 can you explain to us--let's start with Allotment 526, how
2 you determined, for example, on Exhibit 2 here the areas
3 that are now shown in yellow, how did you go about making
4 that determination which eventually led you to draw in
5 portions in 5 to 6 in yellow?

6 A. How did I determine the location of those
7 boundaries?

8 Q. No--well, okay, yes. How did you determine
9 the location of those boundaries?

10 A. Well, by examining the soils in the field
11 and plotting the boundaries between the soil units on an
12 aerial photo base.

13 Q. When you say by examining the soil or soils
14 in those areas, what do you mean? What did you do in that
15 process?

16 A. Well, you actually go into the field and take
17 samples of the soil and examine their physical properties
18 in the field and record those properties and map the soil
19 types. Now, let me restate that. You map similar soil
20 samples as mapping units which show on the aerial photo
21 base, and mapping units are areas which have soils with
22 physical properties that are relatively the same within that
23 mapping unit, and which are different from the properties
24 within the other mapping units.

25 Q. Okay. When you take samples of soil how do

1 you take the sample? Is it a core sample?

2 A. In this case we took the samples with a, what
3 we call a Perrin bucket, auger.

4 Q. When you take these samples then approximately
5 how deep into the earth's surface do you go?

6 A. Oh, in this case we took samples ranging
7 from 60 to 120 inches in depth.

8 Q. And approximately how many samples did you
9 take, do you recall?

10 A. There are quite a few.

11 Q. Well, let me ask you then if this is more
12 meaningful, did you take them at any--on any regular basis,
13 that is, say every five feet, every ten feet and so on?

14 A. No. The frequency of sampling is based on
15 things that we can observe as we map the soil. For example,
16 the shape of the topography, the lay of the land in other
17 words, and changes that we witness in the soil properties
18 as we place our holes, and then as we detect, for example,
19 the contact between one soil mapping unit and another we
20 may place quite a number of holes along that contact in order
21 to delineate it. So the shape of it and its extent pretty
22 well dictates how many holes we put, and our endurance
23 within the day, but there is no standard traverse or set
24 frequency of holes that we try to follow. We just put in
25 what's necessary to adequately delineate the soil sample

1 mapping units of the soil that we're mapping.

2 Q. We're talking about the boundary of what's
3 shown in yellow. You've said you made field observations
4 and also soil samples. Were there any other factors that
5 used, took into account?

6 A. Yes, there were.

7 Q. What are those factors?

8 A. Once we determined what the physical
9 properties of the soil are then we apply various criteria
10 to the soil properties in order to determine the suitability
11 of the soil for irrigation management practices.

12 Q. Okay. Do you look at all at the topography
13 of the area that you're considering?

14 A. The topography is looked at in terms of the
15 percent slope of the land; in other words, how steep the
16 slope of the land is.

17 Q. And do you look at the relative degree of
18 vegetation cover on the land in determining irrigable
19 acreage?

20 A. In this particular instance that was not a
21 factor that was considered.

22 Q. Why not?

23 A. Because in this particular area we're not
24 constrained by the amount of vegetation as to whether the
25 land is irrigable or not. In other words, we do not

1 consider the necessity to clear vegetation from the land as
2 a factor affecting irrigability of the land.

3 Q. Okay. When you're talking about this
4 particular area I want to make sure we're precise. Are we
5 still talking about specifically 526?

6 A. I'm referring to the Allotments 526, 892,
7 901, and 903.

8 Q. Okay. Let me ask you this, the present
9 condition, that is, let's say as of October 1, 1977, could
10 you describe the present condition of the vegetation on
11 S-526 in the area that you've marked as yellow?

12 A. Oh, I think I can. In the area--let's see.
13 We're talking about Allotment S-526?

14 Q. That's correct.

15 A. In the area that I marked as yellow, which
16 was located west of the road traversing the east side of the
17 allotment and in between that road and the area delineated
18 in green as irrigated acres, the vegetation there consists,
19 to the best of my knowledge, of grasses which haven't been
20 identified, and I believe there may be a certain amount of
21 low shrub growing there, but it's very sparse, whatever it
22 is, they're less than a foot high.

23 Another area which is delineated in yellow is
24 located north of Omak Creek and south of the north boundary
25 of Allotment S-526. In that area, as of 1 October, 1977,

1 is a plowed field. Similarly, the area south of Omak Creek
2 and running in an arc form along the west side of the
3 irrigated area on the west side of the allotment is vegetated
4 with grass for the most part, and I believe there are, down
5 towards the southern extremity of that arc, there are some
6 bushes in there that are some type of low shrubbery, and I
7 don't really know what it is.

8 Q. Okay. Then can you continue with that same
9 description with respect to 901 and 903 for the yellow areas
10 in there?

11 A. In 901 and 903?

12 Q. Yes.

13 A. The vegetation in Allotment 901, S-901, in
14 the area located between Omak Creek, which forms the west
15 boundary of the yellow area, and the irrigated field in the
16 central portion of that allotment which forms the east
17 boundary of the yellow shaded area which is the irrigable
18 soil area, that's vegetated with timber in some portions
19 which I think you can see on the aerial photograph.
20 Approximately 50 percent of the area is vegetated in
21 native grasses.

22 Let me continue on. On that same allotment across
23 on the west side of Omak Creek and on the west side of the
24 main road running down to Omak Lake there is a small area
25 of soil which is irrigable but not in irrigation. That's

1 vegetated primarily with ponderosa pine.

2 In Allotment 901, again, on the extreme southeast
3 portion of the allotment running right along the south
4 boundary in the southwest quarter of the southwest quarter
5 of Section 27 there is an area that's vegetated with some
6 type of deciduous tree. I believe it's probably alder or
7 something similar to that.

8 In Allotment 903, did you ask me to describe that?

9 Q. That's correct, yes.

10 A. In Allotment 903 in the north one-half of
11 that allotment there is an area shaded in yellow which is
12 vegetated by a combination of deciduous trees in some areas,
13 I'd say for approximately, oh, 60 percent; 30 percent is
14 native grasses. There is a similar area on the extreme
15 southwest portion of Allotment 903 which is also vegetated
16 with deciduous trees and a small amount of native grasses.

17 There are two other small areas bounding the
18 irrigated area, one on the north part of 903 and one on the
19 extreme southeast corner of Allotment 903 which is
20 vegetated primarily in grass and sagebrush.

21 Q. Okay. Now, do you take into consideration
22 the potential crop which could be used in determining the
23 irrigable acres?

24 A. No, you don't.

25 Q. I'm trying to get what your definition of

1 irrigable encompasses. Does that mean that I could use that
2 land which you have marked as irrigable to grow any crop?

3 A. Well, we didn't take climate, for example,
4 into consideration in this. We were looking at the specific
5 suitability of the soil from its physical standpoint to be
6 managed under irrigation practices without regard to the
7 type of crop. Obviously you're going to have to take that
8 into consideration if you're going to grow the crop in an
9 area.

10 Q. I think we better go back to that. In what
11 sense are you considering the suitability of soils?

12 A. We're looking at the soils' suitability to
13 receive irrigation water and transmit that to a growing
14 plant.

15 Q. Now, when you made your soil classification
16 and investigations with respect to the Colville Irrigation
17 Project did you make any reference to any other systems of
18 soil classifications, specifically, for example, the Soil
19 Conservation Service classification?

20 A. We didn't apply that in our analysis, no.

21 Q. And why not? Can you explain?

22 A. Well, yes, I can explain that. The Soil
23 Conservation Service, to the best of my knowledge, did not
24 perform any soil classification in that area. There were
25 some soil--there was a soil survey that I'm aware of

1 performed there. I don't recall the date, it was quite some
2 time ago, and it was performed by a soil scientist from the
3 Bureau of Indian Affairs. The classification was not
4 directed specifically at determining irrigability and did
5 not provide the types of information we needed to make that
6 determination.

7 Q. Okay. Do you use basically the same method
8 as the SCS, the Soil Conservation Service uses in coming up
9 with soil classifications?

10 A. I'm not sure what you mean by methods.

11 Q. Well, let me ask you this, are the methods
12 that you use in classifying the soils as part of this
13 investigation, did you use standard and commonly accepted
14 practices to make those classification?

15 A. We used conventional practices to examine the
16 soils. That isn't to imply that we used SCS method of
17 classification.

18 Q. When you're considering irrigable acres do
19 you take into account any of the costs involved in turning
20 that irrigable acre into an irrigated acre?

21 A. No, we don't.

22 Q. Now, in that same line then, have you--well,
23 looking at Exhibit 2, for example, there are large areas
24 in green which are presently being irrigated, and then your
25 areas in yellow, particularly in Allotment 526 or closely

1 around those green areas. Do you have any opinion as to
2 why the irrigable acres have not yet been turned into
3 irrigated acres?

4 A. No, I don't.

5 Q. Okay. Is there any physical reason why those
6 irrigable acres have not been turned into irrigated acres?

7 A. I don't know what the reason is.

8 Q. Okay. Now, let me see if I can get this in
9 the record. If you were to add up all of these portions
10 which you have marked as yellow on Exhibit 2, what is the
11 total amount of irrigable acres that you can ever contend
12 exist in the No Name Creek Basin?

13 A. Are we referring to any specific areas?

14 Q. No. I was referring to the entire basin.

15 A. I don't have a figure for that.

16 Q. You don't have it for the whole basin, okay.
17 Do you have it, though, broken down for specific allotments?

18 A. Yes, we do.

19 Q. Is that the chart on the bottom of Deposition
20 Exhibit 2, is that what that purports to show?

21 A. Yes, that's correct. There is a column
22 there entitled, undeveloped irrigable acres.

23 Q. Okay. Now, turning to a slightly different
24 area, as a geologist did you perform or have performed under
25 your direction any geological cross sections of the No Name

1 Creek Basin?

2 A. I haven't performed one in a long time. We
3 have developed some geological cross sections from the
4 information available to us.

5 Q. When you say you have developed, that's more
6 summarily?

7 A. Myself personally in collaboration with Dr.
8 Robinson.

9 Q. Okay, and can you then explain to us what is
10 involved in the development of a cross section?

11 A. Certainly. The cross sections that we
12 developed at the No Name Creek Basin are based on the
13 surface geology which we have mapped, and they are based on
14 subsurface information available from logs of test holes
15 and wells that have been constructed in the No Name Creek
16 Basin.

17 Q. And in what respect then did you use the
18 geologic cross sections which you have developed in this
19 area?

20 A. Could you be a little more specific?

21 Q. Okay. Did you use the cross sections that
22 you developed in providing advice to the Colville Indians
23 in the design of their irrigation system?

24 A. No, not really directly.

25 Q. Okay. Well, then what did you use the cross

1 sections for?

2 A. Well, we used them in providing a visual
3 representation of the geology as pertains to analyzing the
4 interrelationship between geology and the supply of water in
5 the No Name Creek Basin.

6 Q. Okay. You referred to logs from the well
7 drilling. Was the well drilling--did you oversee the well
8 drilling which resulted in the logs?

9 A. You mean was it done at my personal direction
10 or supervision?

11 Q. Yes, that's correct, or were you--

12 A. Some of it was.

13 Q. And which wells are you talking about there,
14 do you know?

15 A. Yes. I don't believe it's shown on this
16 exhibit. Well, let me stop to consider for a moment.

17 The wells which I had personal responsibility to
18 direct the drilling operation were test holes T-1 and T-2,
19 and really I can't even say I had personal responsibility
20 for all of that because that was done in collaboration with
21 the U. S. Geological Survey and other team people that were
22 participating in this investigation.

23 Q. On the logs that you got from the wells, how
24 deep did those wells--well, what's the deepest that you
25 obtained?

1 A. The deepest test pump?
2 Q. That's right.
3 A. Oh, approximately 231 feet, as I recall.
4 Q. Okay, and do you recall what the shallowest--
5 A. About 4 feet.
6 Q. Did any of the observation wells from which
7 you got these logs penetrate to bedrock?
8 A. Yes, they did.
9 Q. And at about what level did you reach bed-
10 rock?
11 A. It varies depending on the location.
12 Q. Okay. Are you familiar with the log from,
13 say, the Paschal Sherman well?
14 A. No, I'm not, I'm not aware of a log from that
15 well.
16 Q. Are you familiar with the log from the
17 Colville No. 1 well?
18 A. No, I'm not.
19 Q. And the Colville No. 2 well?
20 A. No, I'm not.
21 Q. So your logs were basically observation wells?
22 A. They were based on test holes some of which
23 were complete as observation wells, yes, that's correct.
24 Q. Now, when you say you reached bedrock in some
25 of the holes, can you give me a specific example of--well,

1 for example, the test hole T-1, do you recall if you reached
2 bedrock in that hole?

3 A. We did not.

4 Q. Did not. Do you recall how deep T-1 was?

5 A. I think, to the best of my recollection, it
6 was about 231 feet deep.

7 Q. Okay. Now, what about T-2?

8 A. T-2, is, again, to the best of my recollection
9 about 229 feet deep. I may have the depth turned around on
10 those two, but I don't believe I do.

11 Q. And in T-2 did you reach bedrock?

12 A. No.

13 Q. Okay. Can you go to Exhibit 2 and show me
14 where the test holes were that you reached bedrock?

15 A. Certainly. One test hole I reached bedrock
16 was test hole which we labeled as M-3, and that's located
17 in the southeast quarter of the southwest quarter of Section
18 9, Township 33 North, Range 27 East, and have I described
19 it sufficiently close enough for the record?

20 Q. That's right.

21 A. I'll point to it here on the exhibit at that
22 location, and this test well which I referred to as test
23 well M-3 penetrated bedrock at, I believe the total well
24 depth was in the neighborhood of 92 feet, and actually
25 bedrock was probably penetrated for at least a couple of

1 those feet.

2 Another well which penetrated to bedrock is that
3 test hole--which we have labeled as W-1, and that test hole
4 is located in the northeast quarter of the northwest quarter
5 of Section 21 on Allotment, formerly Indian owned, S-525,
6 which is now the Walton property, and that test hole
7 penetrated to bedrock at a depth, as I recall, of about 51
8 feet. There were actually two test holes there very closely,
9 you know, within eight feet of each other, one 55 feet and
10 the other one was 51 feet. I don't recall which one was
11 finally completed as an observation well.

12 Q. When you're talking about bedrock what
13 exactly are you referring to?

14 A. The basin is filled with unconsolidated
15 sediment, and these rest in a trough that's cut into a very
16 dense crystal and hard granite rock, and that's what we're
17 referring to as bedrock.

18 Q. Okay.

19 A. There was one other well drilled which I was
20 not personally present which the U.S.G.S. drilled so I can't
21 testify to that.

22 Q. Okay. Now, I asked Mr. Watson this and he
23 referred me to you so here I am. We were talking about the
24 watershed boundary, and I asked if that is the same as
25 aquifer boundaries, and--

1 A. No, it's not.

2 Q. Okay, and in what respect with relation
3 specifically to No Name Creek is it different?

4 A. Well, the aquifer boundary is confined to
5 the materials within the No Name Creek watershed which has
6 the capability to store and transmit ground water to water
7 wells in sufficient amounts to be used for domestic purposes
8 and in larger demands. That's a very small area compared
9 to that area which we have defined as the watershed boundary
10 within which all of the precipitation and runoff ultimately
11 is discharged through No Name Creek.

12 Q. Okay. Now, when you're talking about the
13 aquifer, maybe--just so we're all clear on this, would you
14 define what you mean by aquifer?

15 A. Okay. I think I just did. An aquifer is a
16 sedimentary material--well, an aquifer is a geologic
17 material which has the capacity to store and transmit
18 ground water to wells. In this case we're defining it more
19 strictly. We're saying that it has that capacity to
20 transmit ground water to wells in sufficient volumes to
21 support uses in excess of 200 gallons per minute.

22 Q. Okay. Now, let me ask you this, we have
23 talked about a granite lip which I believe Mr. Watson
24 testified is roughly in the vicinity of the northern
25 boundary of 901?

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A. Yes.

Q. Do you know what is referred to as a granite lip?

A. Yes, I do.

Q. What in fact is the granite lip?

A. The granite lip is simply an area where the No Name--the course of the stream, which we're calling No Name Creek, flows over granite bedrock.

Q. Okay, and would you then say that the area of No Name Creek Basin that's above the granite lip is a different aquifer from the area that's below the granite lip?

MR. VEEDER: I object to that.

THE WITNESS: It's a senseless question.

MS. ECKERT: He answered it better than you did.

MR. VEEDER: What?

MS. ECKERT: I said, he answered it better than you did. He said it was a senseless question.

MR. VEEDER: Well, Mike is not as civilized as I am.

Q. (By Ms. Eckert) Well, let me ask you this then, is an aquifer the same as a body of ground water?

A. No, it's not necessarily.

Q. Are there two different bodies of ground water above and below the granite lip in No Name Creek

1 Basin?

2 A. I'm presuming you don't mean, are there four
3 bodies of ground water out there. There is only one body
4 of--I wouldn't even say that. I can't answer that question
5 the way you've stated it.

6 Q. All right.

7 A. I'm really not trying to be--

8 Q. I realize that. What I'm really trying to
9 get at is, does the granite lip basically enclose water
10 north of that area, ground water? What my ultimate question
11 is, if I were pumping from a well in S-903 or 901 would I--
12 I'm going to have to qualify this. Would I eventually be
13 drawing ground water from above the granite lip, in your
14 opinion?

15 A. In my opinion you would not.

16 Q. I would not, and why not?

17 A. Well, notwithstanding the fact that in my
18 opinion there was no availability of ground water in
19 Allotments 901 and 903 to pump, the granite lip in the
20 adjacent areas of granite bedrock on the north edges of
21 901 and 903 form a hydrologic barrier.

22 Q. Now, you say that the waters of No Name
23 Creek flow over the granite lip towards Omak Lake. Are
24 there any other areas in the Omak Creek Basin in which
25 waters leave the aquifer?

1 A. That's a very complicated question to answer.
2 Could you be more specific or--

3 Q. Well, what I'm asking is, generally speaking
4 No Name Creek flows in a southerly direction. Do you have
5 any reason to believe that there are any waters moving in
6 any other direction? In other words, are there any waters
7 in the No Name Creek Basin which are moving north?

8 A. No, not in my opinion. Now, I may reserve
9 the right to expand on that later on.

10 Q. Now, you mentioned that No Name Creek Basin
11 is underlain by granite and filled up by unconsolidated
12 materials. What's the source of the unconsolidated materials?
13 Were the unconsolidated materials deposited by glacial
14 action, for example?

15 A. Are you asking for the agency of the
16 deposition or the source of the materials?

17 Q. The agency of deposition.

18 A. Oh, there are a number of agencies involved.

19 Q. What are those?

20 A. Fluvial deposition from fluvial waters
21 resulting from several sources, lacustrine deposition--
22 lake sedimentation, in other words.

23 Q. When you say lake sedimentation, are you
24 saying that No Name Creek Basin used to be a lake?

25 A. Oh, no, I didn't say that.

1 Q. How do you get lake sedimentation? How does
2 that eventually contribute to the unconsolidated materials?

3 A. There is a small portion of the boundary to
4 the No Name Creek aquifer which is bound by lacustrine
5 materials which were deposited by a lake, and certainly does
6 not encompass No Name Creek Basin.

7 Q. Where is that small portion then?

8 A. It's located in the, oh, approximately along
9 the easternmost boundary of the northwest--excuse me, the
10 northeast quarter of the southeast quarter of Section 8,
11 and in the southeast quarter of the northeast quarter of
12 Section 8. Let me point that out to you.

13 Q. Would you, please?

14 A. That would be located here, as I've just
15 described it.

16 MR. VEEDER: Would you please state the map
17 to which you're pointing?

18 THE WITNESS: I'm pointing to the areas I
19 just alluded to on Deposition Exhibit 2.

20 Q. (By Ms. Eckert) Now, would you describe
21 these unconsolidated materials in terms of--well, let me
22 ask you this, are all of the unconsolidated materials in the
23 No Name Creek Basin of relatively similar size?

24 A. No, they're not.

25 Q. And what has created the differences in sizes

1 in materials?

2 A. Sorting, by primarily sorting by flowing
3 water.

4 Q. Okay. Is there a pattern so that you have,
5 say, coarser material in one portion of the basin as opposed
6 to finer materials in other portions of the basin?

7 A. Yes, there definitely is.

8 Q. Could you describe that pattern then?

9 A. Well, I think I can. I'm referring here to
10 Deposition Exhibit 2, and the area beginning in the south-
11 west quarter of the northwest quarter of Section 9 running
12 through the central valley of the No Name Creek watershed
13 southward through the southwest quarter of Section 9, and
14 through the northwest quarter of Section 16, and the east
15 one-half of the southwest quarter of Section 16 are all
16 underlain by relatively coarse sand and gravel-type of
17 materials.

18 Continuing downstream along No Name Creek in the
19 central valley portion of the No Name Creek watershed into
20 the Walton property in the east half of the northwest
21 quarter of Section 21 in the--approximately the east half
22 of the southwest quarter of Section 21 and into approx-
23 imately the east--no, excuse me, the west one-half of the
24 northeast quarter of Section 28 to the points that we
25 described as the granite lip, the central valley consists

1 relatively of fine grain materials, predominately silty
2 sands and some clay.

3 Q. In the areas of Allotments 901 and 903 can
4 you tell us what the unconsolidated materials there consist
5 of?

6 A. Without referring to the exhibit, the areas
7 exclusive of the bedrock consist predominately of silty
8 sands, silt, and subordinate amounts of clay material.
9 There were also deep in that sequence some gravels and
10 cobbles set in a very dense compact clay matrix.

11 MS. ECKERT: I'm at a good breaking point,
12 if you want to break.

13 MR. SWEENEY: I'll second that.
14 (Deposition continued to 9 a.m., January 6, 1978.)
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STATE OF WASHINGTON }
COUNTY OF SPOKANE }

ss: REPORTER'S CERTIFICATE

I, David Caviezel, a notary public in and for
the State of Washington;

DO HEREBY CERTIFY:

That the foregoing is a true and correct
transcription of my shorthand notes as taken upon the
deposition of Mike Kaczmarek on the date and at the time
and place as shown on page one hereto;

That the witness was sworn upon his oath to tell
the truth, the whole truth and nothing but the truth, and
did thereafter make answers as appear herein;

That I am not related to any of the parties to
this litigation and have no interest in the outcome of
said litigation;

WITNESS my hand and seal this 16th day of
February, 1978.

David Caviezel
Notary Public in and for the State
of Washington, residing at Spokane