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case # 4993

File # 157

1	IN THE DISTRICT COURT FOR THE FIFTH JUDICIAL DISTRICT
2	WASHAKIE COUNTY, STATE OF WYOMING
3	
4	IN RE:)
5	THE GENERAL ADJUDICATION) OF RIGHTS TO USE WATER)
6	IN THE BIG HORN RIVER) Civil No. 4993 SYSTEM AND ALL OTHER)
7	SOURCES, STATE OF) WYOMING.)
8	
9	
10	FILED
11	Margaret V. Hampton CLERK
12	
13	DEPUTY
14	
15	VOLUME 50
16	Afternoon Session
17	Tuesday, May 5, 1981
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25	ORIGINAL

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THE SPECIAL MASTER: Are you ready to go?

MR. WHITE: Yes.

THE SPECIAL MASTER: We will come to order, please, ladies and gentlemen.

(By Mr. White) Dr. Mesghinna, before the break you were asked to look at what was admitted as U.S. Exhibit WRIR-C-50, which is the gravity line classification map for Riverton east in order to determine whether or not the north portion of two parcels -- excuse me, two fields, 41 and 48, on Exhibit FM-1255-A included lands classified as class 6 by HKM.

Having reviewed WRIR-C-50, are you now able to state that the northern portion of those two tracts, 41 and 48, are each located on land that appears in white on Exhibit C-50 and 51?

- A It's hard to say about 41 from these exhibits because they are quite approximate, and 41 might be included there as gravity, but I can make further checks later on.
- Q Let me ask you this, except for the areas which we have discussed this morning, being those areas on Exhibit 1255-A in the northeast portion of the Riverton east unit, do you know, of your own mesghinna-cross-white

i		
1		personal knowledge, that the irrigable land
2		base shaded on your Exhibits C-249 through 255
3		is exactly the same irrigable land base which
4		was testified to by Mr. Kersich and shown on
5		U.S. Exhibits C-44 through 54?
6	A	All that I can say is that the lands that are
7		shaded in our exhibits are from the mylars.
8		in the aerial photos they gave us. And that
9		program was done in 1979; the classification
10		program was done in 1979.
11	Q	So, to the extent Mr., Kersich testified about
12	:	additional field work in 1980 and 1981 which
13		resulted in further changes to his irrigable
14		land base, those changes would not necessarily
15		be reflected in your exhibits; is that correct?
-16	A	Let me say let me clarify my point here. The
17	i,	lump sum is a 1979 problem, but
18	Q	Would you start again? I didn't understand the
19		first several words.
20		MR. CLEAR: I don't think the microphone
21		is working again, Your Honor.
22	A	The microphone isn't working.
23		MR. WHITE: I'm sorry, Wold, something happened
24		and I couldn't hear you.
25	mes	ghinna-cross-white

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		·
	1	MR. CLEAR: Yours isn't working either.
6	·	•
	2	A I'm plugged in now.
0 0	3	THE SPECIAL MASTER: Now, we are plugged in.
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1	•	Exhibits C-249 through 255? If you don't know,
2		say you don't know.
3	A	Well, I don't think I have checked it, the
4		final exhibits of Mr. Kersich. I believe they
5		are the ones that they gave us, that's what
6		my belief is.
7	Q	Is it true then that of your personal knowledge
8		you know of no discrepancy between the arable
9		land base on your Exhibits C-249 through 255
10		and the arable land base included on Mr.
11		Kersich's Exhibit C-44 thourgh C-54?
12	A	All what I can say is we have used an arable
13		base that they have submitted to us for our
14		system design study, and my belief is that they
15		have those exhibits, the exhibits they have
16		submitted here should be those.
17	Q	But do you know that?
18	A	I don't know that for a fact, 100 percent.
19	Q	Are you aware of any other fields aside from
20		Fields 46 49 through 56 on Exhibit FM-1255-A
21		where the fields are laid out on lands
22		classified as nonarable, Class 6 by HKM and
23		are not shown in red on Exhibits FM-1249
24		through 1255-A?
25	mes	ghinna-cross-white

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- A All what I can say is what we have shown here is what we have received.
 - I understand that and I understand you're off
 the hook. What I'm trying to find out is the
 relationship between the arable land base that
 Mr. Kersich put into evidence and the arable
 land base you've relied on.

THE SPECIAL MASTER: He has said to you,
Mr. White, he doesn't know whether there have
been discrepancies. There could have been some
discrepancies. He believes what he did was
from the same basis that the other one was.

MR. WHITE: Well, Your Honor, with that in mind, I would move to strike Dr. Mesghinna's testimony concerning the lands in these five units as well as the water requirements therefore, on the basis not of a lousy job by him because he's a very well qualified competent person, but because the raw data that was provided to him has not been shown to be the same data on which Mr. Kersich rendered his expert opinion, as to arable land base earlier in this trial. It's not the same data, it's not the same arable land base that's in evidence. We've mesghinna-cross-white

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shown that with respect to , I don't know, five or gix hundred acres, and the witness is unable to state of his personal knowledge that the arable land bases which he used that was provided to him in 1979 is the same arable land base that Mr. Kersich has testified to.

THE SPECIAL MASTER: I will deny that motion. To grant it would be shockingly unjust. I have no doubt that there are going to be many, many discrepancies in acreages and totals in this lawsuit. You did an excellent job this morning in finding some. I don't know whether the sum this morning is going to end up in the 468 acres or something like it, but I know one thing from this morning's evidence, Mr. White and Counsel, you can hardly grant a reserved water right for acreage for which the Indians were paid and which could be conceivably flooded some day by a reservoir for which the land was sold. And I find it very difficult for somebody to guarrel with that. Possession of the surface, you bet they keep that under the deed, but can you put it into a system? I don't think so. This sort of thing, Mr. White, has been an

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1	•	excellent piece of cross-examination, but to
2		deny everything that Dr. Mesghinna put in
3		there over this would be consummately wrong,
4		so the motion is denied.
5	Q	(By Mr. White) Dr. Mesghinna
6		THE SPECIAL MASTER: Did you get a
7	:	different figure? I see you punching it out.
8		MR. WHITE: I was going to ask the expert,
9		Your Honor.
10		THE SPECIAL MASTER: Was my 468 fairly
11		close?
12		MR. WHITE: I came up with 478.9, and I
13	!	was going to ask Dr. Mesghinna to be the finder
14		of fact here on the total amount of acreage in
15		Fields 46 and 49 through 56, which you gave
16		us as being shown as Class 6 or nonarable on
17		United States' Exhibits C-50 and 51.
18		
19		
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1	MR. SACHSE: Your Honor, I object to the form
2	of that question, in that Mr. White has said that
3	that land is shown to be nonirrigable, and I think
4	the testimony so far would show the only thing that
5	has been shown about it is the dispute as to the
6	nature of the title.
7	THE SPECIAL MASTER: The nature of the title,
. 8	that's understood.
9	MR. WHITE: That's not true, Your Honor. Mr.
10	Sachse hasn't been listening.
11	THE SPECIAL MASTER: It is true there is a dis-
12	pute as to the nature of the title. And on one set
13	of maps it's shown as 6, nonirrigable land.
14	MR. WHITE: Mr. Kersich testified it was 6.
15	THE SPECIAL MASTER: And you asked if that is
16	nonirrigable land. Some else says it is perfectly
17	irrigable land.
18	MR. WHITE: The United States offered them for
19	the truth of the contents, not the State of Wyoming.
20	MR. SACHSE: The Tribes did not, and we have a
21	right to object to the form of a guestion that
22	presupposes something that is not proved.
23	MR. WHITE: Well, I'll admit the Tribes have
24	not proved it, Your Honor.
25	THE WITNESS: Yes, 478.

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1		THE SPECIAL MASTER: Are you both exactly
2		correct? All right, I wish we could agree more
3		often to other things as we did on this.
4		Next, DMr. White?
5	Q.	(By Mr. White) Dr. Mesghinna, on the bottom of
6		Page 42 of your report, Table 24, which is Exhibit
7		C-245, you show 3814 net acres for Riverton East;
8		is that correct?
9	A.	Yes.
10	Q.	Isn't it true that the 478 acres which you just
11		described are included within the 3814 acres on
12		Page 42 of C-245?
13	A.	Ninety-five percent of those is included.
14	Q	So, you multiply the 478 times .95; is that correct?
15	A.	Yes. Let me check that number again. I think I
16		have it on the other page. Field 41 was included
17		in it.
18	Q.	You said you couldn't tell without checking, so I
19		did not include Fields 41 or 48 within my total.
20		We will come back to those.
21	A.	Okay. So, 478 times95 is 454. It is minus 454.
22	Q	So, 3814 includes then 454 acres?
23	A.	Yes.
24	Q	And that would reduce that to 3360?
25	mes	ghinna - cross - white

1		•
1	A.	Yes.
2	Q.	Dr. Mesghinna, what does the reduction of a net
3	•	acreage for Riverton East do to the diversion re-
4		quirement of 17,536 acres? I have to check that.
5	A.	I have to check that.
6		MR. WHITE: While he is checking that, I
7		don't want to lead the court and counsel into
. 8		thinking we are not going to come back to this
9		type of cross-examination, although I am finished
10		with this particular area for the day.
11		This problem just came to our attention last
12		night. We haven't checked it out, and we will pro-
13	•	bably have additional cross and other discrepancies
14		between the two irrigable land bases.
15	A.	If that is true
16	Q.	(By Mr. White) I thought you would take a couple
17		more minutes. I'm sorry, Wold.
18	A.	If that is true, if those lands are really Class 6
19		lands, it would be 15,366, instead of 17,566.
20	Q.	Was that 15,366?
21	A.	Yes.
22	Ď.	How did you determine that? It wasn't a straight
23		percentage reduction, was it?
24	A.	It was not.
25	mes	ghinna - cross - white

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11.

1	Q.	Would you explain it?
2	•	THE SPECIAL MASTER: Was it a proportionate
3	•	reduction?
4		THE WITNESS: No. You see, as I have mentioned
5	•	before, there are three diversions.
6		THE SPECIAL MASTER: Diversions?
7		THE WITNESS: And the two diversions are pump
8		stations and they have high efficiency, so they have
9		different water yields.
10		But this area received its water from the canal
11	 	and the canal has lower efficiencies, so it will
12		have higher water needs.
13	Q.	(By Mr. White) If you reduce the number of acres
14		to 3360, isn't it true that your per acre cost
15		shown under Riverton East on Table 24 will also
16		change?
17	A.	Well, for this part it will change for the good.
18	Q	Well, tell us how it will change. Let's get the
19		full and complete story. What will happen to your
20		on-farm system cost?
21	A.	Our on-farm system costs, unless I have to go through
22		it, because just from the outset, you see, the canal
23		goes for a long distance. If I can step up there and
24		show
25	mes	ghinna - cross - white

1	Q.	What happens is the land dropped off at the end of
2		the canal; is that right?
3	A.	Yes. This is a long canal here, you know, that
4	•	goes this way just to serve this land. And if
5		all this canal is out and if the siphon is out
6		here, the wastewater is out here, and I believe
7		there is a drop structure somewhere here, that
8		drop structure is out, you know, the cost will be
9		very, very low.
10		THE SPECIAL MASTER: You have an effective
11		savings?
12		THE WITNESS: You have an effective savings
13		just from the outset.
14	Q.	(By Mr. White) How about the other costs that are
15		shown on that column? Before you answer that, you
16		are saying that the on-farm system costs would drop?
17	A.	No, I didn't say that.
18	Q.	You didn't? Okay, I misunderstood.
19	A.	It would be hard for me to say about the on-farm
20		system, but I don't think it would make much of a
21		difference, because I can give you how it looks
22		without going too far.
23		The on-farm system of those areas towards the
24		end is lower than the other on-farm system of the

mesghinna - cross - white

1		overall Riverton East. Let's say, for example, it's
2		about \$134 per acre for that pump station.
3	Q.	So, then the average on-farm system for Riverton
4		East would then increase; is that correct?
5	A.	It would increase, but since the acreage you are
6		talking about is small compared to the rest, it
7		might increase probably five thousand something.
8	Q.	How about the pipe network cost; what would happen
9		to it?
10	A.	That cost may not change because you have pipes
11		going towards the fields. So you develop those
12		fields and it doesn't change very much.
13	Q.	What would your average pertagre cost for pumps and
14	;	pumping do?
15	A.	I can check. Okay. Just from Pump No. 9, the pump
16		and pumping costs might increase a little bit.
17	Q.	Increase a little bit?
18	A.	Yes, it might increase a little bit.
19	Q.	Did you have idea of the order of magnitude of that
20		increase?
21	A.	If you give me about ten minutes, I'll be able to
22		calculate this.
23		MR. WHITE: Your Honor, I would like to ask
24	<u> </u>	the witness what is going to happen to all of his
25	mesc	hinna - cross - white

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2		about \$134 per acre for that pump station.
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24		the witness what is going to happen to all of his
25	mes	ghinna - cross - white

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plots. THE SPECIAL MASTER: I thought he had already answered that question. I guess this is one exception to it. He said a little bit increase in pumps and pumping; otherwise, it would be a general reduction, an amount of reduction. MR. WHITE: I don't think that was his testimony, Your Honor. THE SPECIAL MASTER: Well, let's go on. What about drainage? 10 MR. WHITE: What I was going to ask, Your Honor, 11 is that the witness could have the ten minutes he 12 asked and be able to answer the question. 13 THE SPECIAL MASTER: I don'tothink your question 14 is very important, but I will grant you the ten 15 minutes. 16 MR. WHITE: Thank you, Your Honor. 17 18 (Whereupon a recess was taken (at 2:00 p.m. 19 20 23 24 25

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		1		THE SPECIAL MASTER: We will come to
		2		order, please.
		3	Q	(By Mr. White) What happens to the \$310 per
ب مستم		4	~	acre for pipe network, Dr. Mesghinna?
			•	
-		5	A	It will become \$298.
		6		THE SPECIAL MASTER: It becomes what?
/ 		7		THE WITNESS: Two nine eight.
		8	•	THE SPECIAL MASTER: All right.
		9	Q	(By Mr. White) And for pumps and pumping,
		10		the \$366?
			71	It will become \$383.
		11	A	
5		12	Q	What would happen to canals and related
-		13		structures?
C		14	A	Well, that will be extremely hard to go over
		15		it, but all what I can say is just from the
		16		outset I can see that it will be less expensive,
7		17		it will be lower than this for sure.
		18	Q	Drainage costs \$477 an acre?
7		19	A	I think it will be extremely hard to do it now
7				here.
-0		20		
-3		21		THE SPECIAL MASTER: Is it fair
		22		THE WITNESS: Let's assume it will be the
		23		same.
-		24		THE SPECIAL MASTER: Is it a fair assumption
		25	mesc	hinna-cross-white

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1		to say that it will be somewhat lower,
2		negligibly lower?
3		THE WITNESS: It will be the same as it
4		is now, really, we can say that.
5	Q	(By Mr. White) Engineering and contingencies,
6		\$363 per acre.
7	A	That one is 25 percent of the pipe network plus
8		pumps and pumping plants, plus canals and
9		related structure, plus drainage. That's 25
10		percent of those items.
11	Q	What would happen to your total investment,
12		\$2,006?
13		((Brief pause.
14	A	Okay. From what we have just determined, the
15		cost will be \$5 over without considering canal
16		and drainage.
17	Q	So it would be \$2,001; is that correct?
18	A	Yeah.
19	Q	Now, will the reduction of some 450 acres in
20		Riverton East have any effect on the O and M
21		energy demand and total operation cost?
22	A	Yeah, it will have.
23	Q	What will those effects be?
24		THE SPECIAL MASTER: Would you just state
25	mes	ghinna-cross-white

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1	that generally. We needn't go into all these
2	details on these points.
3	THE WITNESS: We are talking very
4	insignificant things in general, but it is
5	better to check it.
6	By the way, in doing this, I am assuming
7	that Pump No. 8 and Pump No. 9 are out, just
8	to clarify something.
9	MR. WHITE: Okay.
10	(Brief pause.
11	A The engineering cost will be exactly \$2 higher
12	than what it is now.
13	Q How about O and M demand costs?
14	(Brief pause
15	A Okay. The demand cost will be \$4.79 against
16	\$4.45.
17	Q And O and M?
18	A That will take quite some time.
19	THE SPECIAL MASTER: Why don't we forsake
20	the O and M knowing it will probably be up
21	also.
22	THE WITNESS: We can assume that.
23	THE SPECIAL MASTER: What's that?
24	THE WITNESS: We can assume that the same
25	mesghinna-cross-white

proportions as the energy cost. THE SPECIAL MASTER: Tell me why it costs more money for operation and maintenance for energy to move around 15,266 acre-feet of water over 3,300 than it does to move 17,500 feet of water over 38 acres? Is that because you're taking off the gravity flow acreage? THE WITNESS: Yeah, that's exactly true, because we have higher heads on the others, higher lifts. 10 THE SPECIAL MASTER: Okay. All right. I 11 think we can take that, answer that question, 12 Mr. White, on the O and M. 13 MR. WHITE: Excuse me, Your Honor, for the 14 delay, I've lost my place in my notes. 15 16 17 18 19 20 21 23 24

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mesghinna-cross-white

Popo Agie?

(307) 635 8280

Dr. Mesghinna, isn't it true that the north Crow-

heart unit and the Riverton east unit are either

north of the Wind, the big Wind, or east of the

1	A	The north Crowheart unit is north of the Big Wind.
2	Q	Yes.
3	A	You can say that,
4	Ω	And how about the Riverton east? Is that east
5		of the Popo Agie?
6	A	It's quite parallel to it.
7	Q	Is it on the right bank or on the east side of
8		the Popo Agie?
9	A	The Popo Agie finishes or terminates before it comes
10		to Riverton east.
11	Ω	I see. Is it east of the line drawn through the
12		Popo Agie?
13	A	Yes, you can say that.
14	Q	Would that mean that on the total diversion require-
15		ments shown on table 24, only roughly 44,000 acre
16		feet are for lands south of the Wind and west of
17		the Popo Agie?
18	A	Would you restate your question, please?
19		THE SPECIAL MASTER: I doubt if it's a proper
20		question on this witness's cross examination.
21		It might be on some of them, but it really didn't
22		have much to do with his direct. I'm going to
23		say I really feel it really doesn't have much
24		place in the cross examination for him. Whether
25	mesc	hinna-cross-white

it is north or south or east or west of the Wind has no bearing on what he testifies to. Dr. Mesghinna, do you know where these projects are located? 4 THE SPECIAL MASTER: Well, that's a -- Mr. White that's an offending question. MR. WHITE: Well, I would like to make an offer of proof then, Your Honor, that if allowed to inquire of this witness, Dr. Mesghinna --Of course, I know. Α 10 THE SPECIAL MASTER: He doesn't have to 11 bring out the fact that 52,000 of what we call 12 the open area is in there, since he has already 13 brought it out and it is already in the record. 14 I did it myself, Mr. White. I did it a couple 15 of weeks ago, clearly. 16 MR. WHITE: My offer of proof is, Your Honor, 17 that if allowed to testify in response to my 18 questions, Dr. Mesghinna would indicate that of 19 the five units he testified about, 44,069 acre 20 feet are attributable to projects attributable: 21 to the diversion requirements for projects which

24 mesghinna-cross-white

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are south of the Wind and west of the Popo Agie,

and 165,303 acre feet would be attributable --

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1		THE SPECIAL MASTER: You may make that offer
2		of proof. I doubt if your figures are accurate,
3		even if I allowed it and changed my mind. But
4		go ahead and make it. Does your offer are you
5		aware Dr. Mesghinna put the Arapahoe into the con-
6	 	sideration? Are you including it in the figures?
7	 	MR. WHITE: I am not including it in my figures,
8	<u> </u> 	Your Honor.
9		THE SPECIAL MASTER: Go ahead with your offer
10		of proof.
11	A	To make things clear, why don't I give you from
12		where each unit is getting water? I think that
13		will make things easier.
14	Ω	I appreciate that, Dr. Mesghinna. What I was
15		trying to correct was the diversion requirement,
16		the number of acre feet to be diverted, with the
17		location of the lands.
18	A	I've already stated that.
19	Q	I understand. I'm trying to make a record
20		MR. SACHSE: I object to the further question-
21		ing along this line. All this is already in the
22		record, as we all know. The maps speak for
23		themselves as to where the projects are. The
24		sources of the water has been testified to. This

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Dr. Mesghinna, I'll direct your attention to what has already been admitted as Tribe's Exhibit M-1.

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Have you had an opportunity to examine that map before?

MR. SACHSE: Your Honor, I'll object to this question. The mapping question is an ownership map of land on the reservation. Dr. Mesghinna's testimony has been as to the engineering of projects. He has already stated he took the land base for the projects from land information that was supplied to him by HKM.

There has been nothing in his direct testimony about the land ownership of any piece of land, and to get into land ownership now with Dr. Mesghinna is, first, to go beyond the scope of his direct examination and, secondly, to go beyond the scope of his work.

MR. WHITE: Your Honor --

MR. SACHSE: And is an inadmissible set of questions.

MR. WHITE: Let me respond to that. You can always tell when we're starting to get close to pay dirt.

THE SPECIAL MASTER: Oh, no. We can always tell when we get an exhibit which wasn't used on direct, however.

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Have you had an opportunity to examine that map before? MR. SACHSE: Your Honor, I'll object to this question. The mapping question is an ownership map of land on the reservation. Dr. Mesghinna's testimony has been as to the engineering of projects. He has already stated he took the land base for the projects, from land information that was supplied to him by HKM. There has been nothing in his direct testi-10 mony about the land ownership of any piece of 11 land, and to get into land ownership now with 12 Dr. Mesghinna is, first, to go beyond the scope 13 of his direct examination and, secondly, to go 14 beyond the scope of his work. 15 Your Honor --MR. WHITE: 16 MR. SACHSE: And is an inadmissible set of 17 questions. 18 MR. WHITE: Let me respond to that. You 19 can always tell when we're starting to get close 20 to pay dirt. THE SPECIAL MASTER: Oh, no. We can always 22 tell when we get an exhibit which wasn't used on 23 direct, however. 24 mesghinna-cross-white 25

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MR. WHITE: And the reason it is so exciting to Mr. Sachse is that many of the lands for which Dr. Mesghinna has laid out fields aren't trust lands.

They are not trust lands.

THE SPECIAL MASTER: You can show that, but I'm not sure he is the man to show it with.

MR. WHITE: I would point out in his own exhibit, Your Honor, it purports to show that these lands are trust lands.

THE SPECIAL MASTER: It says irrigable lands, trust, and makes a distinction between irrigable lands, fee.

MR. WHITE: I believe in his report it also indicates it.

THE SPECIAL MASTER: Yes, but this witness made no direct testimony regarding the status of the title of the lands on which he was working. He was handed work materials and given potential irrigable lands and went to work designing systems for them.

I think that the objection is a good one, because, in the first place, Tribe's Exhibit 1 was not used for anything approximating this use, and the substance was not used on direct.

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It would seem to me your question goes outside the scope of the direct examination. And it clearly shows, if the State wishes to prove that some of the lands included in his system design is not trust lands and has no place in the case, it certainly may do so, but you will have to run your own side of the case.

MR. WHITE: I would like to make it clear on the record, are you saying I cannot cross examine this witness as to whether or not the lands included in his fields are trust lands, as indicated on his exhibit?

THE SPECIAL MASTER: I am saying you should not be permitted to cross examine the witness on matters that are clearly outside the scope of his direct testimony.

Now, you show me where he testified directly on the ownership of some land and I'll have to abide by my decision and let you tender the questions.

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MR. WHITE: Could I have just a minute?

THE SPECIAL MASTER: You bet, Mr. White.

I'm trying emphatically to be fair, and I

think you've found another material for --

MR. SACHSE: Your Honor, while Mr. White's having his few minutes, I'd like to point out also that Mr. White did cross-examine Mr. Kersich about lands classified as arable or not arable, that may or may not be fee land, did use this exhibit in testing the land base testified to by Mr. Kersich and has had his bite at the apple with a witness who actually was involved in this. And he's thus had his cross-examination on this point, and anything further on this should be in his direct case to come in with proof of title that land that we claim is fee land is not, if he can prove it.

MR. WHITE: Well, Your Honor, it's a great economy that the Court would allow this witness to testify in support of the United States' case in chief, which by the United States' own representation of counsel, is limited to trust lands, and not allow this witness to be crossexamined to see whether or not his irrigation projects do apply to trust lands.

1	THE SPECIAL MASTER: Mr. White, if this
2	witness were a lawyer, this witness had
3	worked in setting the parameters or the
4	delineation, tract delineation that went here-
5	tofore in this scientific work, I'd permit
6	you to ask your questions, but he didn't.
7	MR. WHITE: Well, the question I seek to
8	ask
9	THE SPECIAL MASTER: He testified to ten
10	points that deal with or was it 11, I forget
11	now.
12	THE WITNESS: Eleven.
13	THE SPECIAL MASTER: Let me find that.
14	Eleven factors in the system, designing of
15	systems for the irrigation of land to grow crops
16	for consumption of humans and animals, not to
17	do with trust title land, fee land. You sure
18	got a right to see if there's land that shouldn't
19	be in there, but I'm not sure it's proper cross-
20	examination.
21	MR. WHITE: Well, I'd refer the Court to
22	Page 24 of Exhibit C-245.
23	THE SPECIAL MASTER: All right.
24	MR. WHITE: Which is Dr. Mesghinna's report.

First sentence on that page says: In this

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1	section a proposed conceptual irrigation
2	development plan for the future irrigation
3	of trust lands is discussed. This is an
4	exhibit that was offered through Dr. Mesghinna,
5	it was offered and admitted over the objection
6	of the State as to the truth of its contents.
7	MR. CLEAR: Your Honor, it was offered as

MR. CLEAR: Your Honor, it was offered as a summary of his testimony and was not offered over the objection of the State.

MR. WHITE: I think it was offered over the objection of the State.

THE SPECIAL MASTER: It's irrelevant whether it was or was not, gentlemen, I ruled, and I think the ruling is a fair one.

MR. WHITE: You told me if I could show you where he testified to trust, that these were trust lands, you'd let me inquire.

whether -- if he testified as to the designation of a description of a title or a deed or of a restriction of convenant running with the land, something in our territory of professionalism, but I clearly believe my ruling is correct, Mr. White.

MR. WHITE: Let me make an offer of proof.

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THE SPECIAL MASTER: All right, make your offer of proof.

MR. WHITE: If this witness were allowed to testify, he would testify that based on Tribes' Exhibit M-1, which is already admitted for the truth of its contents, and which shows land status and therefore without having to reach any legal conclusions as to land status, this witness would testify that contrary to the statements that the lands involved in his study are trust lands as contained on, for example, Page 24 of his report, Exhibit 245, C-245, some of these lands are in fact not trust lands.

THE SPECIAL MASTER: Now, Mr. White, if the total of all the lands that he worked on and testified to come to about 53,760 acres and it is found that 214 acres are not trust, does this officiate all of his evidence?

MR. WHITE: It doesn't officiate it, but it helps. And the reason it helps, what we're talking about here is in terms of both stakes of this lawsuit, are roughly \$1,000 an acre ---

THE SPECIAL MASTER: Can't you show that there is land included here in error and should not be included without having to proceed with

this witness? MR. WHITE: I think this witness ought to defend his own work. THE SPECIAL MASTER: This is not his work. 4 This work was handed to him when he began his work. That's what I'm trying to get across to you and I'm sorry I can't. MR. WHITE: We're back to the old problem, the pipeline opinion then. THE SPECIAL MASTER: No, not at all. We're 10 back trying to keep some order and arrangement 11 in this lawsuit so we might avoid needless 12 consumption of time and human life and expense. 13 That's what we're here for, and the ruling has 14 15 been made. MR. WHITE: Let me see if I can complete 16 my offer of proof then, Your Honor. 17 I'm not sure where I was. Merissa, can you 18 read back the offer of proof, please. 19 (Thereupon the following 20 (offer of proof was read (back as follows: " 21 (this witness were allowed (to testify, he would testify 22 (that based on Tribes' (Exhibit M-1, which is 23 (already admitted for the (truth of its contents, 24 (and which shows land status (and therefore without

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(to the statements that
(the lands involved in his
(study are trust lands as
(contained on, for example,
(Page 24 of his report,
(Exhibit 245, C-245, some
(of these lands are in fact
(not trust lands."

MR. WHITE: Those lands would include but
not be limited to -
MR. CLEAR: Your Honor, I think that's

MR. CLEAR: Your Honor, I think that's an improper offer because the exhibit, Dr. Mesghinna would have to adopt this exhibit as his own, since these show the trust lands and that is for him to fulfill Mr. White's offer of proof, he would have to testify that he knows which lands on this are actually trust land and which are not. He would have to adopt that exhibit as his own.

THE SPECIAL MASTER: Yes, go ahead.

MR. WHITE: That with respect to the Riverton East Unit only, he would testify that Field No. 10 -- excuse me, Field 40, 41, 46, 47, 48, 50, 51, 52, 53, 54, 55 and 56 are not held in trust by the United States.

THE SPECIAL MASTER: Aren't these the exact acreages we went through this morning?

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1	MR. WHITE: No, there are some of them
2	that are different.
3	THE SPECIAL MASTER: Don't they include
4	the ones we talked about this morning?
5	MR. WHITE: I would say there's probably
6	a 75 percent overlap.
7	THE SPECIAL MASTER: Then your offer is
8	duplicative and my ruling is further correct.
9	MR. WHITE: It may be duplicative in some
10	respects, Your Honor, but I think I'm entitled
11	to make it.
12	That those fields are not held by the
13	United States in trust for the Tribes but are
14	otherwise owned not in trust by the United States.
15	THE SPECIAL MASTER: In all honesty,
16	shouldn't your offer include that there are
17	some conditions attached to the deed that give
18	the surface to the Indians in perpetuity, even
19	though it may be flooded from time to time?
20	MR. WHITE: In all honesty, no, Your Honor,
21	because I don't believe that to be true.
22	THE SPECIAL MASTER: Well, I think Counsel
23	discussed that this morning and
24	MR. CLEAR: I think To clarify that, I
25	don't think it was all of those fields were

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1	included in, you know, from 41, 46, I believe
2	it was just the fields in the 50s because
3	that's where Mr. White started, and I think
4	it's just 55, 53 52, 53, 54, 55.
5	THE SPECIAL MASTER: All right. The ones
6	furthermost to the east?
7	MR. CLEAR: And 56?
8	THE WITNESS: I think so.
9	MR. CLEAR: And 56 are in that intake area.
10	THE SPECIAL MASTER: But you are correct,
11	they are not trust lands.
12	MR. WHITE: I made an offer of proof.
13	THE SPECIAL MASTER: Enmeshed with the
14	lesser trust than other trust lands, Mr.
15	White, let's put it that way.
16	MR. WHITE: I think the record should be
17	clear, Your Honor, that although there's no.
18	evidence before you, the representation of
19	Counsel for the United States as to the peculiar
20	status of those lands only went to, I believe,
21	four of the 13 parcels.
22	THE SPECIAL MASTER: Very well. You have
23	certainly opened a road to prove the rest of
24	them being properly included when your case

comes on.

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Q	(By Mr. White) Dr. Mesghinna, isn't it true
	that you developed water holding capacities
	for a number of soil textures?
A	Yes.
Q	Where did you obtain those water holding
	capacity types?
A	You mean the basic datas, where did I obtain
	them?
Q	Yes.
A	I obtained them from several sources. One of
	the sources is the Ames Irrigation Handbook,
	the second part is from the Riverton area,
•	which soil survey was made, and another place
	where I have got them is from textbooks.
Q	Where did you obtain the water holding capacity
	for coarse loamy sand and what value did you
	assign to that?
A	I can't say offhand. I have to look for it.
	(Brief pause.
A	Did you say coarse loamy sand?
Q	Yes, C-o-l-s.
A	I used about 1.75.
	A Q A Q

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Yeah.

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That's inches per foot?

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1	Q.	Upon what factors did you base your estimate that
2		the water capacity for loamy sand was 1.75 inches
3		per foot?
4	A.	As I have indicated before, there are datas from
5		different handbooks and so on. Based on that, I
6		made my estimation.
7	Q.	Do you know what handbook included coarse, loamy
8		sand?
9	A.	I don't think there would be any handbook that
10		coarse, loamy sand would be in. You have to
11		THE SPECIAL MASTER: Make a composite?
12	A.	make a compisite. In fact, the water-holding
13		capacity was a composite.
14	Q.	(By Mr. White) For loamy sand did you use 1 inch per foot pursuant to Ames? For loamy sand? Yes.
15		per foot pursuant to Ames?
16	A.	For loamy sand?
17	Q.	Yes.
18	A.	I used about 1.75. It is very hard, you know, to
19		differentiate the gravity between loamy sand, you
20		know, sandy loam, gravity loam, coarse loamy sand,
21		loamy sand and so on.
22	Q.	Why don't you give me the values for each of these
23		textures you used. Fine loamy sand, is that FLS?
24	A.	Fine? If I give you fine sandy loam I'm sorry.
25	mes	ghinna - cross - white

1		I was giving you the intake rates. I'm sorry. Let
2		me go look. I was reading another column.
2	Q.	The loamy sands really ought to be 1 inch per foot,
4		shouldn't it?
5	A.	Yes. Loamy sand is about 1.05.
6	f	THE SPECIAL MASTER: 1.05?
7		THE WITNESS: Yes.
8		THE SPECIAL MASTER: All right.
9	Q.	(By Mr. White) Okay. Fine loamy sand, FLS?
10	A.	How about if I give you fine sandy loam? It
11		would be 1.6.
12	Q.	If you had used the texture of fine loamy sand, it
13		would also have a 1.6 value?
14	A.	It would be in that neighborhood, you know. You
15		can't exactly say this is it. I wish we knew this.
16		I mean, I wish everybody in the world knows this.
17		We are estimating.
18	Q.	And what did you use for coarse sandy loam?
19	A.	1,15,
20	Q.	Gravelly sandy loam?
21	A.	About 1.05.
22	Q	You used the symbol somewhere in your work, SLGR.
23		Is that sandy loam gravelly? Is that the same
24		thing as gravelly sandy loam?
25	mes	ghinna - cross - white

1	A.	Sandy loam and gravelly might fit.
2	Q.	Would it have the same water-holding capacity of
3		1205?
4	A.	About the same; 1.0 I have it here.
5	Q.	How about sandy loam as opposed to loamy sand?
6	A.	Sandy loam, 1.25.
7	Q.	Back to your coarse sandy loam and gravelly sandy
8		loam excuse me, for gravelly sandy loam and sandy
9		loam gravel you have 1.05 and 1.0 respectively.
10		What difference in percent of gravel did you assume?
11	A.	I just took the soil texture as it is.
12	Q.	For fine sandy loam why did you assume 1.6, which
13		is higher than the values given in Ames?
14	A.	You see, it is not I don't only depend on Ames,
15		I depend also on other facts that are given. And
16		I have developed, you know, through my education and
17		my background, I have developed these capacities.
18		Once I see a texture, I have something in my mind,
19		you know.
20		It is not just exactly, you know, this is it
21		in this book and then I have to go by that, you
22		know. Within a year of time, you start to develop
23		your own. You have a feeling in your head.
24	Q.	How about heavy sandy loam; what did you use for
25	mes	ghinna - cross - white

1		that?
2	A.	Heavy sandy loam?
3	Q.	HSL?
4	A.	Heavy sandy loam?
5		THE SPECIAL MASTER: Is that HSL one of the
6		symbols he used?
7		MR. WHITE: Yes, sir.
8	A.	HSL? It must be heavy sandy loam. I don't have
9		it here in my
10	Q.	Do you have a symbol GRL; is that the same as
11	•	gravelly loam?
12	A.	Yes, I have it.
13	Q.	What value did you assign to that?
14	A.	Just the same as the gravelly sandy loam, 1.05.
15		It is very hard to make distinctions because the
16		differences are very, very slight, or very, very
17		small. And this is for working that we have really
18		gone through all this, but in my textbook or my
19		work that you see, you don't find this much break-
20		down. We break down this for us to use.
21	Q.	Do you find a symbol LGR which, I assume, is loamy
22		gravels?
23	A.	LGR?
24	Q.	Yes.
25	; me	ghinna - cross - white

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1	A.	Yes.
2	Q.	What value did you use for that?
3	A.	One.
4	Q.	Can you find the symbol LL? Which I assume is
5		light loam?
6	A.	I don't have this one for LL, but I can give you
7		probably for loamy sand or sandy loam. Sandy loam
8		is 1.25.
9	Q.	So, LL would be the same as SL, would it?
10	A.	In that neighborhood.
11	Q	Would you have a symbol for L, which, I assume, is
12		loam?
13	A.	Just loam as it is?
14	Q.	Yes.
15	A.	Yes.
16	Q.	What is that value?
17	A.	About 1.8.
18	Q.	1.8?
19	A.	Yes.
20	Q	HL, which I assume is heavy loam?
21	A.	It is almost the same; 1.8. You know, these are
22		give and take.
23	Q	I just want to find out what you used; that's all.
24		I've got a symbol GRSCL, which I assume is gravelly
25	mes	ghinna - cross - white

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1		sandy clay loam?
2	A.	SGRSL? I have it.
3	Q	You don't have GRSCL? What are you looking at
4		there anyway? Do you have a list of these already
5		prepared?
6	A.	Sure.
7	Q	Dr. Mesghinna, you've handed me a page out of your
8		notebook that is entitled "Water-Holding Capacities
9		and Entry Rates for Soils, Wind River Indian Reser-
10		vation."
11		The values that are shown on this sheet, are
12		those the values that you used in your work for the
13		various soil textures which have the abbreviations
14		shown on that sheet?
15	A.	Yes, as much as we can. You know, we tried to
16	/ ,	stick to this, but when the engineer is working on
17		the water-holding capacity, he has also his own es-
18		timation to make. These are basic things there.
19	Q	These are values you used; is that right?
20	A.	Yes. These are the starting place. We start from
21		this, you can say, more or less, yes. These are
22		the ones we used.
23		MR. WHITE: Your Honor, we would ask permission
24		to make a copy of this and mark it as Exhibit FM-1.
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mesghinna - cross - white

THE SPECIAL MASTER: You would like to tender

-- You've been asking questions for fifteen minutes
based on that. You saw him look down every time
you asked a question and take some time and find
his tabulation and answer your question. You went
through that minute after minute and question after
question.

Then you said to the witness, "What have you
got there? A tabulation of them?"

It was quite obvious he had been testifying from a tabulation for fifteen minutes. Why do we need a copy now? Everything in it is in the record.

MR. WHITE: Your Honor, of the values shown on here, I am approximately one quarter of the way through. I think it would save a remarkable amount of time if we were able to get these in exhibit form.

THE SPECIAL MASTER: Is there any objection to that? Do I need to rule on it? Is it agreeable with you, Dr. Mesghinna? Is there any private information on it?

THE WITNESS: There is nothing of private information on it.

THE SPECIAL MASTER: All right. Just make a copy and get it back in the book and go on with the next subject matter.

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- Q (By Mr. White) Dr. Mesghinna, is it correct that the cropping pattern which you used was established by Mr. Dornbusch after receipt of input from you?
 - Yes, that's true.
 - Q What specific -- what input did you make in the determination of cropping patterns?
 - The adaptability of the crops in the different A areas of the Reservation.
- Did you make this input in writing or orally? 10 Q
- You know, been working for the same case we A 11 meet every now and then and we discuss about 12 this matter. 13
 - Well, I would like --Q
- It's an almost everyday work, really. A 15
- Would you please tell the Court for the benefit 16 Q of the record, what facts, data, opinion or 17 other information there is with specificity 18 that you provided or submitted to Mr. Dornbusch 19 with respect to cropping patterns? 20

THE SPECIAL MASTER: Mr. White, that question is improper, in my opinion. This witness testified on the second subject last week and the cropping patterns. He discussed

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climate, alfalfa, corn, small grains, gross water requirements. He discussed the relation of each to each, he discussed consumptive use of those and ambiance. He discussed the 4 ratios in given areas, elimination of one product or another thoroughly. You have the 6 right to cross-examine on that. You have no right to cross-examine him on what he and Mr. Dornbusch talks about in their concept of 9 getting along on cropping pattern. I believe 10 you have the right to cross-examine him only 11 on those matters on which he testified on direct, 12 and I'm going to object to your question and 13 not permit a continuation of it unless you get 14 your questions directed to matters in evidence 15 in this case on cropping pattern. 16 (By Mr. White) Doctor, is it true that the only 17 information you provided Dr. Dornbusch is as 18 you testified on direct, the crop adaptability 19 20 for the Wind River Indian Reservation? 21 We studied the area very carefully in terms of climate and different crops that grow in the area, and we also discussed with 23 Dornbusch, you know, and both firms became the 24 mesghinna-cross-white 25

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1		same wave length as to the understanding, what
2		is going on. And Dornbusch, Mr. Dornbusch,
3		rather, decided on the percentages of crops that
4		are to be grown in the area.
5	Q	Let me ask the question again. Is it true, as
6		you stated on the direct examination that the
7		only information you provided him was information
8		regarding crop adaptability?
9		MR. CLEAR: I think we went into this
10		fairly thoroughly in direct, and I think he's
11		been over it now two or three times on the
12		same question.
13		MR. WHITE: He never answered the question.
14		THE SPECIAL MASTER: I think it was your
15		last question, I think you are repeating it.
16		Maybe you've added a new element to it, I'm not
17		sure. You want to read the last question and
18		you can see if you got it. Will you read the
19		last question, please.
20		(Thereupon the last
21		(question was read back (as follows: "Q Let
22		(me ask the question again. (Is it true, as you
23		(stated on the direct (examination that the only
24		(information you provided (him was information re- (qarding crop adaptability?"

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THE WITNESS: All what I can say is I did not decide on the percentages of crops that grow in the area.

THE SPECIAL MASTER: He didn't ask you that. What did you say, what did you provide him with, anything more than just this? That was his question.

THE WITNESS: My -- Okay. To answer the question, in my direct testimony, as I have discussed, I have discussed rather, what goes into cropping pattern and so on. I went into detail in this. In fact, I went into more than was needed, and from that onwards, Mr. Dornbusch decided on the cropping pattern. So it's not only -- I gave him the elevations, you know, I gave him the crops that are grown, you know, all those things that I discussed last time in my direct testimony.

Q (By Mr. White) Specifically what information did you give him then including values, if you gave him numbers? I'm not sure what you gave him. Did you just talk about it conceptually or did you give him values?

You know, we have, of course, determined the

mesghinna-cross-white

1		most current cropping pattern or, you know,
2		since 1975, '76 or so, what farmers are
3		using and so on. We studied that, you know,
4		the different cropping patterns in the area.
5	Q	This is what you did?
6	A	Yeah.
7	Q	Okay. Now, did you give that information to
8		MR. Dornbusch?
9	A	Mr
10	 	THE SPECIAL MASTER: You asked him that
11	{ }	about twice now, and he's telling you that's
12	<u>{</u> 	what he gave Dr. Dornbusch, nobody else, unless
13		you want to ask him who else he gave it to.
14	Q	(By Mr. White) What cropping patterns did you
15		determine, not Dr. Dornbusch, but you determined?
16	A	Well, that cropping pattern has nothing to do
17		with future lands, Mr. White. I mean if it
18		were historic lands, yes, it would apply, but
19		for this matter it has no application at all.
20	Q	Well, let me ask you
21	A	I think the proper question might be might
22		be
23	Q	I need all the help I can get. I thank the
24		witness.
25	mes	ghinna-cross-white

A	witer crobs are adabcante til rise areal witer and
,	the crops that are adaptable in the area. That
	I can answer, really, without anything. I told
	Mr. Dornbusch alfalfa grows in the area, corn
	grows in the area, small grain grows in the
	area, beans, you know, grows in the area,
	pasture grows in the area. These are really the
	main crops that grow in the area. However,
	some of the crops do very well below 5,900
	elevation and some of them don't do good above
	5,900 elevation, and I have explained the
	reason, the scientific reason behind this in
	my direct testimony, as to why corn is not good
	above 5,900 elevation although there have been
	occurrences that corn has grown over 5,900
	elevation, that would come to Mr. Dornbusch
	later on. So really, based on this and based
	on the cropping pattern that were grown before
	and based on the economic values and so on,
	which I don't have to say, Mr. Dornbusch will
	say it later on, they have decided on the final
	cropping pattern and gave us the final cropping
	pattern.
Q	Which of the five crops that you just named did

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1	you indicate do well above 5,900 feet?
2	MR. SACHSE: Objection, Your Honor. He
3	testified to that on direct examination. It's
4	not legitimate cross-examination.
5	THE SPECIAL MASTER: I'll overrule the
6	objection. He may test his memory or test
7	credibility or something like that.
8	THE WITNESS: I say small grains and
9	alfalfa and pasture land.
10	Q (By Mr. White) How did you make that
11	determination?
12	A Based on historic studies.
13	Q What historic studies did you make?
14	THE SPECIAL MASTER: I'm going to object
15	to that question. That's drawing out the
16	cross-examination beyond the realm of reason-
17	ableness. The witness, an expert testified
18	that he made that conclusion on his historic
19	experience, and to go into it further, in my
20	opinion, is unwarranted.
21	THE WITNESS: If necessary I can go
22	through it. I
23	THE SPECIAL MASTER: You don't have to.
24	He's been overruled.
25	mesghinna-cross-white

I'm sure there will be other questions and a lot of subject matter and many more hours of this, so go on. MR. WHITE: I'd like to state for the record that the State of Wyoming is unable to make an offer of proof with respect to this. THE SPECIAL MASTER: What does the State of Wyoming seek to prove in the authorities 10 of this expert with regard to what he thinks 11 grows well at the higher elevations to which 12 he's testified is the result of his experience? MR. WHITE: All I'm asking him, Your 13 Honor, is facts and data upon which he based 14 his opinion. In other words, the investigations 15 he made and if you won't let me inquire into 16 that, well, you won't. The record speaks for 17 18 itself. THE SPECIAL MASTER: I have permitted you 19 to ask that and he said it was based upon his 20 experience and upon his historic -- result 21 of his years of work in this field. 22 All right, Your Honor. MR. WHITE: I don't 23 think that's what he responded. 24

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1	THE SPECIAL MASTER: The authorities
2	he uses to tell him what grows well above
3	5,900 feet in Wyoming. I doubt if there's
:	anything better than experience.
4	
5	MR. CLEAR: Your Honor, I do think you
6	have a misunderstanding. He did testify on
7	direct that he looked at the crops growing in
8	the last three years on the Reservation.
9	THE SPECIAL MASTER: Yes, he did.
10	MR. CLEAR: And I think that's I think
11	he's gone into it really.
12	THE WITNESS: Let me say I can say 1t.
13	THE SPECIAL MASTER: You want to say it
14	anyway, I know, all right. Go ahead. All
15	right, go ahead and say it.
16	THE WITNESS: Okay. Our data was based
17	our information, rather, was based mainly, you
18	know, depending on those 5,900 elevation,
19	higher and lower areas, was mainly based on
20	the BIA people.
21	Q (By Mr. White) What facts and data were
22	provided to you by the BIA personnel upon which
23	you based your conclusion?
24	THE SPECIAL MASTER: That one I'm simply
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not going to allow you to ask. You got the
BIA at your disposal, and you got a battery
of lawyers and you got a battery of assistants
in the Attorney General's office and you can
sure go to the BIA and find out their information of what grows above 5,900 feet without
cross-examining this witness on his credibility
or expertise, Mr. White. You can't drill him
to death on every point like this ad nauseum
and prepare your case on cross-examination.

MR. WHITE: I think I'm entitled under the rules, Your Honor, to determine the facts and data upon which Dr. Mesghinna based his opinion.

THE SPECIAL MASTER: And that's precisely what you have adduced, and I believe I'm entitled to run this case as a Special Master and make rulings, and I have, and I would appreciate some consideration on that fact.

- Q (By Mr. White) Who in BIA did you receive the information from?
- A From a gentleman by the name of Don Crook.
- Q And was the information he provided you oral or in writing?

25 mesghinna-cross-white

1	Q.	Who do you mean by "your people"?
2	A.	People who worked with me, engineers. And also I
3		might add to this, Mr. Dornbusch himself has been
4		in the area and has gone through a lot of work to
5		determine this, to see whether our work was justi-
6		fied, and checked it himself.
7	Q.	Do you have with you the information you received
8		from Don Crook, the DIA, which you reduced to
9		written form?
10	A.	No.
11		THE SPECIAL MASTER: I would like to ask you
12		now, Mr. White to proceed off the crop pattern,
13		unless you have some new element within the crop-
14		ping pattern in the area.
15	Q.	(By Mr. White) Dr. Mesghinna, if you established
16		seven climatic zones, why didn't you establish
17		seven different cropping patterns?
18		MR. CLEAR: Your Honor, he testified Mr. Dorn-
19		busch established the cropping patterns. There
20		were two different zones for the cropping patterns,
21		but Mr. Dornbusch established the cropping patterns.
22		THE SPECIAL MASTER: Why don't we discuss who
23		established the climate zones in Wyoming? We have
24		had them a long time. We will find that it was the

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rt was orar, but we have written it up.
Well, let me state the point further. We
have gone ourselves to the area and we have
seen the crops that grow in the area. The
very fact above 5,900 elevation, this is, the
5,900 elevation is not exactly 5,900, you
know, might be higher, might be lower because
there has been actual crops like corn that
have been found to grow above 5,900 elevation.
But to make sure, less than 5,900 corn does
not grow, is not clearly adaptable. We have
seen this ourselves. When I visited the area
I I can't say that I have seen every part
above 5,900 elevation. From what I have seen,
from what I gather, most of the crops were
perennial crops like alfalfa and also small
grains. However, below 5,900 elevation, from
what I have seen and what my people have seen,
there has been almost all the crops that I
mentioned before, in fact all the crops that I
mentioned before grow over this area.

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1		Man Upstairs. We ought to talk to Him about this
2		climate. I don't think the question is an appro-
3		priate one, Mr. White.
4	Q.	(By Mr. White) Dr. Mesghinna, did you provide any
5		information to Mr. Dornbusch which would allow him
6		to develop a cropping pattern for each of the cli-
7		mate zones?
8		THE SPECIAL MASTER: Hasn't that been asked
9		and answered?
10		MR. WHITE: No, Your Honor.
11	A.	Only those which I have stated in my direct testi-
12	: :	mony and what
13	Q.	(By Mr. White) Only above and below 5900?
14	A.	Yes.
15	Q.	What were the sources of information, the facts
16		and data, which you used or relied upon to deter-
17		mine the growing season in each of the seven cli-
18		matic zones?
19	A.	On the lower areas, we received data as to planting
20		dates, effective cutoff dates, and harvest dates
21		from the U.S. Bureau of Reclamation, which mainly
22		their experience is in the Midwest District.
23		The only thing that is very important to an
24		engineer or a planner who works in this kind of
25	mes	ghinna - cross - white

field is the publication called Technicalities, No. 21, by the Soil Conservation Service. There they give some guidelines as to the crops, the planting dates of plants and the approximate har-4 5 vest dates of crops. We also have discussed, since we are working 6 for the Tribes, we also have discussed -- I mean, for people in the -- people who are in the irrigation, what you call, operation, maintenance and administration of the Federal Indian Project Lands, 10 and these people include Don Crook and Richard Harbour 11 and so on. 12 THE SPECIAL MASTER: You gentlemen want a ten-13 minute break? 14 I think any time, Your Honor. MR. WHITE: 15 (Whereupon a ten-minute break 16 (was taken, commencing at (approximately 3:15. 17 18 19 20 21 22 23 24

B-a-s-1-c.

I see, this is basic. THE SPECIAL MASTER: mesghinna-cross-white

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1		THE WITNESS: I think so.
2	Q.	(By Mr. White) About halfway through or maybe
3	•	three-eighths away from the top I find a page
4		that has Stetson Engineers on it.
5	A	Uh-huh.
6	Q	Do you know what that page has to do with
7		MR. CLEAR: What page?
8		MR. WHITE: There's no number.
9		THE SPECIAL MASTER: You just get it by
10		flipping your fingers through and seeing it.
11	<u> </u> 	MR. WHITE: In the upper right-hand corner
12		it says Western Sybernet Center.
13		THE WITNESS: Yeah, it says Stetson
14		Engineers. How did it get in here?
15	Q	(By Mr. White) Next page has Mesghinna on it.
16	A	Yeah.
17	Q	What is this?
18	A	I don't know. How did you receive this?
19	Q	Let me find out what it is first.
20		THE SPECIAL MASTER: Mr. White, could I
21		ask a question? What is S-y-b-u-1-1? It's
22		on that same page, Stetson Engineers.
23		MR. WHITE: S-y-b-u-l-l, I don't know,
24		I'm going to ask Dr. Mesghinna.
25	mes	ghinna-cross-white

1		THE WITNESS: This is the crop
2		consumptive use determination of Jensen-
3		Haise.
4	Q	(By Mr. White) This is the evapotranspiration
5		program that you mentioned this morning?
6	A	I hope this is the one. I don't know who got
7		it and
8	Q	Just for your comfort, Dr. Mesghinna, it was
9		provided to us in discovery by HKM. Can you
10		describe
11		THE SPECIAL MASTER: Do you Go ahead
12		with your question on this exhibit.
13	Q	(By Mr. White) Can you describe what this is?
14		This is a package that was provided to us. Can
15		you describe if it's a program listing, if it's
16		a program listing several types or what is it?
17	A	I can only comment on the one that says Stetson
18		Engineers, Mesghinna, the other part I don't
19		know anything about it.
20		THE SPECIAL MASTER: What are you saying,
21		that the two pages that says Stetson Engineers
22		and Mesghinna, what about them?
23		THE WITNESS: That one I know.
24		THE SPECIAL MASTER: What did you say about
25	mes	ghinna-cross-white

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1		them?
2		THE WITNESS: And that one is the evapo-
3		transpiration determination.
4	Q	(By Mr. White) Is that the one that begins
5		with Sybernet Center in the upper right-hand
6		corner?
7	A	Yeah. We use their computers.
8	Q	Now, there are only two pages that have Stetson
9		Engineers on it and then Mesghinna, and following
10		that there are some pages that begin with Page 1.
11	A	Uh-huh.
12	Q	Goes through many pages. Is that the listing
13		for your evapotranspiration, your Jensen-
14		Haise ET program?
15	A	Yeah.
16	Q	Is that writing your writing?
17	A	That's not my no, that's not my writing at
18		all.
19	Q	And in front of the pages that are entitled
20		Stetson Engineers, you know nothing of that
21		particular program; is that correct?
22	A	You mean the rest except the Stetson Engineers
23		program?
24	Ω	Everything above where it says Stetson Engineers?
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No, I don't know. MR. WHITE: Well, Your Honor, I'm going to, with the Court and Counsel's permission, remove those pages of which he knows nothing from the exhibit. I'll do it when we get to the next break.

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1	Q	What about the page in front of that? It has some
2		engineering on it. There is another page that
3		begins with the caption "This is the modified JH
4		program for Stetson Engineering." That is not
5		yours?
6	A	That is not mine. The program that I have used
7		in here is the language FORTRAN, but I think
8		the rest of the program is in basic.
9	Q	Is it true that following the two pages that have
10		the Statson Engineering on it, pages 1 through 5
11		has the program listed?
12	A	The program I mean, page 1 through 4.
13	Ω	1 through 4?
14	A	Yes.
15	Q	What does the information on page 5 mean?
16	A	This is the characters and so on.
17	Q	I'm sorry, I didn't understand. These are the
18		characters?
19	A	yes. This is something you get from the computer
20		user. It is not part of the listing of the program.
21		It is when the computer compiles your program,
22		then, you know, it gives you an output where some
23		of your variables were real numbers and some of
24		them were interger numbers, you know, and something
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of this sort. THE SPECIAL MASTER: What does the word "array" mean when printed back to you? An array means -- an array means something that A has another dimension. Say, for example, if I have 50 things to compile, or 50 things to do something with, say there are 50 data, then, I put them in an array. What the computer does, let's think there are several boxes in the computer where it sticks 10 your data. Then what the computer does, it takes 11 about 50 cases or boxes and sticks your data there. 12 It doesn't put any other data from any other source 13 in that place. So when you call it, the program 14 brings that data and compiles it. 15 Okay. After page 5, the pagination starts over Q 16 with page 1 again. Do you know what that informa-17 tion is on the new page 1? 18 Its page 1 has not much bearing. A 19 Does this contain any of the facts and data which Q 20 were inputted into the computer and subjected to 21 this particular program? 22 You see, the computer has -- when they make the 23

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computer it has several things in it. Those are

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the boxes I gave as an example, and these are the things where it addresses, and so on. It has no bearing really on the calculation.

THE SPECIAL MASTER: I may have something to say pretty soon about whether this whole thing has any bearing on the lawsuit or not. I also would like to know, Mr. White, at what time did this come into your possession. You mentioned it came to you from the --

MR. WHITE: About 10 minutes ago, Your

Honor. It was received apparently during the

deposition of Mr. Toedter, and was not marked

as a deposition exhibit. It had a notation on

the front of it "Growing Season Program," which ---

THE SPECIAL MASTER: When was that deposition taken where this was received?

MR. WHITE: Perhaps two and a half weeks ago.

THE SPECIAL MASTER: Two and a half weeks ago? And yet, with this in your possession, you folks filed a document demanding production of computer materials and you already had it in your files?

MR. WHITE: That is not true.

THE SPECIAL MASTER: That is very interesting.

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mesghinna-cross-white

1		MR. WHITE: For the record, I've got to say
2		that the growing season program, which is the
3		caption of this document, is not one of the pro-
4		grams for which we asked you to compel discovery.
5		I would hope that the record would reflect that
6		we did not know, based on the title of this docu-
7		ment, that it contained the evapotranspiration
8		program.
9		THE SPECIAL MASTER: You can put what you
10		want into the record, Mr. White.
11	Q	(By Mr. White) Okay. Dr. Mesghinna, is there
12		any information on FM,2, or within FM 2, beginning
13		with the Stetson Engineering item, that contains
14		either input or output data from this particular
15	<u>.</u>	program?
16	A	There is an output for different crops on page 2.
17	Q	Is that the page 2 that also has 13.59.38 at the
18		top; right?
19	A	Yes.
20	Ω	For what crops is the output shown there?
21	A	It is showing for, I believe the first one is
22		alfalfa.
23	Q	How can you tell it's alfalfa?
24	A	I'm just
25	mes	ghinna-cross-white

1	Ω	I'm sorry?
2	A	I was trying to read the program. I was trying to
3		read the program from the top.
4	Q	Okay.
5	A	And I can understand from the program what comes
6		first.
7		MR. SACHSE: May it please the Court, unless
8		Mr. White is prepared to show in the next question
9		or two the relevance of this print-out that he
10		has obtained, to the testimony of Dr. Mesghinna
11	<u> </u> 	in this case, I think further cross-examination
12		on this print-out should be prohibited.
13		THE SPECIAL MASTER: I will prohibit it in
14		a few more questions if the showing isn't made.
15		MR. SACHSE: Mr. White hasn't asked Dr.
16		Mesghinna the one question, whether any of the
17		information is information he relied upon in
18		forming his conclusion. If he did, then per
19		haps some more point of cross-examination is in
20		order, but if he didn't, we are wasting our time.
21		THE SPECIAL MASTER: Very well. You heard
22		him, Mr. White.
23		MR. WHITE: I have an outstanding question.
24		I asked him which crops he had information on.
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The next question will be, did he use that information in his work. THE SPECIAL MASTER: First, how did you tell this was alfalfa? And what was your answer to that? I failed to follow that. SKFH means alfalfa to you? No. You see, by reading the program I can understand A what crop comes first and what crop comes next. THE SPECIAL MASTER: I see. All right. Go ahead, Mr. White. 10 (By Mr. White) What other crops, in addition to Q 11 alfalfa, are included in the output on page 2? 12 I believe the second crop is corn. Α 13 THE SPECIAL MASTER: I have to ask you this 14 question, how can you tell from this document 15 that the second crop is corn? Would you just 16 show me where you concluded the second crop is 17 corn? I'm getting lost and I don't want to plead 18 quite that ignorant. 19

THE WITNESS: You see, the first one is -THE SPECIAL MASTER: You are going down to
the drainage figures now for rain or precipitation
and it is there you get the crop material?

THE WITNESS: Yes.

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1	THE SPECIAL MASTER: You are not giving us an
2	answer from the top material, but from the second
3	part? I see.
4	THE WITNESS: Oh, this is alfalfa.
5	THE SPECIAL MASTER: That is alfalfa?
6	THE WITNESS: Yes. This is the first month;
7	this is January. We started to plant somewhere in
8	May. And in this case it should have been April,
9	because this is an old one. But we have April for
10	the latest one.
11	This is just an example we gave them. It is
12	not what we did. And the second one is, of course,
13	corn.
14	THE SPECIAL MASTER: That tells you it's corn
15	just from the precipitation or the water used?
16	THE WITNESS: From here. You can see from
17	the programing here. I was reading, when he was
18	talking, I was reading the program.
19	THE SPECIAL MASTER: All right.
20	THE WITNESS: And that is corn. And small
21	grains, I believe, is next.
22	THE SPECIAL MASTER: The next one?
23	THE WITNESS: The next one is small grains.
24	And the last is pasture.
25	mesghinna-cross-white

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1		THE SPECIAL MASTER: Okay. Thank you.
2		THE WITNESS: However, this may not be the
3		ones that we used or studied; these were just
4		
		examples.
5	Q	(By Mr. White) Do you have the output did
6		you receive outputs similar to that which begins
7		on page 2, which you just described for me, which
8		you did rely on in the study?
9	A	Do I have output?
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1	THE SPECIAL MASTER: Did you receive
2	output like this on which you relied in your
3	work?
4	THE WITNESS: From who?
5	Q (By Mr. White) From your computer?
6	A Yeah, of course.
7	Q May I see it, please?
8	A I don't think I have it with me, but I have
9	THE SPECIAL MASTER: We've already ruled
10	that you can't see it, Mr. White.
11	THE WITNESS: I have summaries of that.
12	I have given a summary in my report of that.
13	It's in here.
14	THE SPECIAL MASTER: Dr. Mesghinna, did
15	you rely on this actual report?
16	THE WITNESS: On this one, no.
17	THE SPECIAL MASTER: All right. You relied
18	on something similar?
19	THE WITNESS: Similar.
20	THE SPECIAL MASTER: In form?
21	THE WITNESS: In form.
22	THE SPECIAL MASTER: Different in
23	substance, and you don't have that with you?
24	THE WITNESS: No, I don't have, but I have
25	mesghinna-cross-white

1		given in summary, all output is in here.
2		THE SPECIAL MASTER: Is in where when you
3		say "In here"?
4		THE WITNESS: I'm sorry, in this report.
5	Q	(By Mr. White) On what page do you have the
6		output for alfalfa in the same form that's
7		contained in FM-2? Would you please I
8		guess I'm just missing it.
9		THE SPECIAL MASTER: He didn't say it was
10		in the same form. It shows where the result
11		is in your Exhibit 245?
12		THE WITNESS: Yes, yeah. For example,
13		if we see Lander on Page 8 of Exhibit C-245,
14		what is of interest to us is the net irrigation
15		requirement, and the net irrigation requirements
16		are shown from April through September, for
17		alfalfa, for corn and small grain on Page 8,
18		for Lander Climatic Zone.
19	Ω	(By Mr. White) Is that table 3?
20	A	Yes, sir. And in table 4 the same kind of
21		information is shown for Fort Washakie. Do
22		I have to go one by one?
23	Q	No, that's all right.
24		THE SPECIAL MASTER: Table 5, table 6,
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1		table 7, table 8, table 9 all similar, all
2		through Dubois, all similar?
3		THE WITNESS: Yes, except on Page 10,
4		table 8 and table 9 do not show corn. And on
5		excuse me, table 8 and table 9 do not show
6		corn. And table 10 shows the summary of
7	 	everything, weighted by cropping pattern.
8	Q	(By Mr. White) Okay. Do the values that are
9		contained in table 3 reflect the values that
10		would be found in the second column on Page 2
11		of that printout, FM-2, or the second column
12		minus the third, ETP minus effective rainfall?
13	A	Net irrigation requirement.
14		Yeah, it is the third column, but if you
15		count from the months it would be the fourth
16		column.
17	Q	Okay. Which column is net depth of application
18		of FM-2?
19	A	Net depth of application is the second column
20		from the right or the fourth column if you
21		count from the left.
22		I would state net depth of irrigation
23		rather than application. It's net irrigation
24		requirement. What I mean by this is when I
25	mes	ghinna-cross-white

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1		say abbrication, you talk mainty abbried water
2		during one irrigation, you know, but this is
3		for the month, for each month, you know.
4	Q	So the column in the printout from the computer
5		isn't net depth of application?
6	A	It is net irrigation. I would call it net
7		irrigation. Some people call it net depth
8		of application, but I call it net irrigation.
9	Q	Dr. Mesghinna, it is true then that you have,
10		although perhaps not with you, the input and
11		output data to which you apply the program,
12		which is listed in FM-2 for the Jensen-Saise
13		evapotranspiration; is that correct?
14	A	I have given you all the input data.
15	Q	How about the output data?
16	A	I don't think I have it with me. Well, here it
17		is, that's what I said. It is summarized in
18		here as net depth of application.
19		THE SPECIAL MASTER: When you say "here"
20		you're putting your hand on what?
21		THE WITNESS: I'm sorry, Exhibit WRIR
22		C-245.
23		THE SPECIAL MASTER: Thank you.
24		MR. CLEAR: Your Honor, since it's clear
25	mes	ghinnamcross-white

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that the printout in FM-2 was not the printout
used in Dr. Mesghinna's report, it was just
a sample apparently furnished to HKM, I don't
think it's relevant that it be introduced into
evidence if it's going to be offered into
evidence. Secondly -THE SPECIAL MASTER: Let's wait and see,
to see if we cross that bridge.

MR. CLEAR: Your Honor, if it's not going

MR. CLEAR: Your Honor, if it's not going to be allowed into evidence, I think these, the computer program listed in this document should be, the copies should be gathered up and returned to Dr. Mesghinna.

THE SPECIAL MASTER: Let us see.

MR. WHITE: The only thing I'm going to offer, and I will offer it at the end of the cross, Your Honor, is the program listing contained in there. He's identified that as the one he used.

THE SPECIAL MASTER: Four pages right after his name?

MR. CLEAR: Your Honor, that's the program itself, and that's back to where we were at this

morning. Now, they have it -- mesghinna-cross-white

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THE SPECIAL MASTER: They had it all the time.

MR. CLEAR: Well, Your Honor, it's still apparent that it was inadvertently given to them. If they keep it or it's made part of this record, a Court record is open to the public.

THE SPECIAL MASTER: I don't intend to —

I don't intend to reverse my ruling this

morning regarding the computer programs. We'll

cross that bridge when we get to it at the

end of his case. You know, there may be facts

that come up between now and the end of the

case that may change Mr. White's opinion, so

let's wait until we get to it, Mr. Clear.

MR. CLEAR: I would like to have from the State some assurance that these will remain, while in their custody, that they will not make this, the computer listing program --

THE SPECIAL MASTER: Somebody should have thought of this before it was handed over to them during the deposition. It's a little hard to ---

MR. CLEAR: I'm not saying that, I'm saying mesghinna-cross-white

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just to keep it to themselves, that's all 'I'm saying.

MR. WHITE: Well, Your Honor, I will say
that we will kepp it to ourselves, but the
problem is that everything that was provided
during that deposition was copied and
distributed to our consultants, and it was
only this afternoon that one of the consultants
was working through it and saw Stetson Engineers,
Mesghinna on those pages and showed it to me.

THE SPECIAL MASTER: It's kind of hard

for it to be kept from being public. It's

already been in the hands of how many employees

of their consultants, half a dozen secretaries,

four or five lawyers? I would say the matter's

already lost its private nature and pretty

much made moot my ruling of this morning trying

to protect the proprietorial rights of the -
I'm not going to change the ruling this morning.

I happen to think it's right.

MR. CLEAR: Your Honor, I just want some assurance from the State that they will not voluntarily release it beyond those people they know have it now.

mesghinna-cross-white

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1	MR. WHITE: We're not going to peddle
2	it, Your Honor. We're not going to give it
3	away. We have no reason to use it except to
4	evaluate it now that weknow it is Dr.
5	Mesghinna's program listing.
6	THE SPECIAL MASTER: All right, go ahead.
7	MR. WHITE: Your Honor, could I ask that
8	within the next half hour or so I take a
9	break? I'm getting a sore throat and
10	THE SPECIAL MASTER: Let's break for the
11	day at 4:30. That makes a full day, from
12	9:00 to 4:30.
13	MR. WHITE: I'd be willing to start early.
14	THE SPECIAL MASTER: Do you want to take
15	a break now and then come back in seven or
16	eight minutes?
17	MR. WHITE: I'd love to do that.
18	THE SPECIAL MASTER: All right, let's take
19	a break for ten minutes.
20	(Thereupon a ten minute (recess was taken.
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23	* * * *
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THE SPECIAL MASTER: Let's come to order, please.

MR. CLEAR: Your Honor, before Mr. White begins, I would like to bring up the matter of FM-2 again.

There apparently are two computer programs involved in there. We believe that what happened is during Mr. Toedter's deposition we furnished the State a very lengthy computer printout, which was about yeh high, to which they were entitled.

I think that what happened was that when HKM pushed the button to print it out, this came out with it. And it was inadvertently turned over to the State by the United States. It was not the fault of either Dr. Mesghinna or HKM.

THE SPECIAL MASTER: Nor the State.

MR. CLEAR: Nor the State, Your Honor. We are not saying they surreptitiously took this.

THE SPECIAL MASTER: Sure.

MR. CLEAR: But I think the only relevance that this has is an example of the computer print-out which Dr. Mesghinna has testified to. And this is, as we mentioned in our brief, trade secrets of two experts who are acting as witnesses in this case for the benefit of the United States

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and for the benefit of the Court.

We again would request that the Court order the State to return to the United States, or to this Court, all copies it has of these two programs in its possession and a written assurance that their experts have not retained any copies or made extra copies.

THE SPECIAL MASTER: I'll be glad to sign such an order protecting the confidentiality of the two documents. And I'm happy Mr. White has given us his assurance they are not being peddled by the State of Wyoming, but it is apparently debatable they would be used by some other people, as evidenced by the fact they are now part of the record in these proceedings by the question.

So, I'm sure that that can be done. If you will prepare it, if you will draft such a protective order, I'll be glad to sign it. And I think Mr. White will be glad to receive it.

MR. WHITE: Your Honor, I've got to say, though, I cannot state with any assurance that I can return every copy that has been made of this.

THE SPECIAL MASTER: All right. Do the best you can.

MR. WHITE: And also I will -- I do plan to

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ask our experts to analyze the program listing to see if it's correct, and I expect to cross-examine Dr. Mesghinna again about it.

MR. CLEAR: Your Honor, I think that's the problem. If their experts look at it and they analyze it, they are going to have it and they are going to use it in other businesses.

THE SPECIAL MASTER: I thought I made it clear you were to prepare an order, get it to me and let's look it over and discuss it, and I plan to sign it. If you are asking for something else, we can discuss it at that time. And I may end up drafting the order myself.

MR. CLEAR: Thank you, Your Honor.

MR. WHITE: I would like to say, Your Honor,
I think once the cat is out of the bag, I think it
still remains out of the bag. It was through the
United States that it got out of the bag, and I
think it is now open and we ought to have an opportunity to cross-examine on it.

THE SPECIAL MASTER: Certainly, you are doing it. You brought it into the record in your proceeding. And I don't intend to make available this similar programming on the other subject matters that are involved, but certainly you've got this

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1	one in.
2	MR. CLEAR: Your Honor, could we have an
3	assurance from Mr. White then that the experts
4	will not attempt to utilize this information until
5	we have time to discuss the form and substance of
6	an order which we will submit to you?
7	THE SPECIAL MASTER: You ask Mr. White and he
8	will work something out. You gentlemen are profes-
9	sionals and a part of this court; you are officers
10	of this court.
11	MR. WHITE: Well, we probably ought to get some
12	resolution of that fairly soon, Your Honor, because
13	there are people that are looking at it right now.
14	THE SPECIAL MASTER: We will address it
15	tomorrow morning the first thing.
16	MR. CLEAR: Can we stop them from looking at
17	it until tomorrow morning? That's a problem.
18	THE SPECIAL MASTER: Well, I don't suppose you
19	can stop it. Are you asking questions on it?
20	MR. CLEAR: For right now, Your Honor. I
21	mean, his experts are now analyzing it, Your Honor.
22	That is what he is saying.
23	THE SPECIAL MASTER: Mr. Clear, I don't know
24	any way to prohibit the State from asking questions.

MR. CLEAR: They are not asking questions, Your

Honor; their experts are now, as he said, analyzing these programs.

THE SPECIAL MASTER: They are analyzing the programs, not to find fault with the system that Dr. Mesghinna used. They are analyzing the programs to see if there are errors in the conclusion contained in here based upon the computer printouts.

And if the experts show there is any error on the figures, that is what they intend to attack, I expect, not the computerization and the assistance given by the computer to their conclusions. They could care less what the system is; only whether the data is halfway correct or better.

MR. WHITE: No, Your Honor. Out of fairness to the United States, I've got to say one of the purposes the State intends to use those few pages out of FM-2, which Dr. Mesghinna indicated was his program list, is to see whether the program accurately carries out the methodology that it is supposed to carry out, that you people carried out.

MR. CLEAR: They are going to run the computer program, Your Honor. When they run the computer program, their computer has the program.

THE SPECIAL MASTER: Well, I can't help that, Mr. Clear.

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1	MR. CLEAR: Well, Your Honor, you can order
2	them to cease.
3	THE SPECIAL MASTER: You can make some due
4	showing on it and get your order, as I said, but
5	I'm not going to sit here and discuss it for another
6	twenty minutes.
7	While we are discussing that, I would like to
8	let you know, Mr. White, that this being Tuesday,
9	it's my thought that if you are permitted all of
10	Wednesday and, if necessary, all of Thursday, that
11	you can complete the cross-examination of Dr. Mes-
12	ghinna.
13	You have about 20 to 24 different subjects
14	that might be crammed into those two days.
15	Do you believe that it's the ballpark figure,
16	as we discussed it yesterday a little bit?
17	MR. WHITE: No, sir. I think yesterday I said
18	that I thought that my best guess was that it would
19	be about the middle of next week.
20	THE SPECIAL MASTER: No, your best guess would
21	be half a day and your worst guess was the middle
22	of next week.
23	MR. WHITE: Well, our recollection is different,
24	Your Honor.
25	THE SPECIAL MASTER: Let's have a look at the

1	transcript and see who is wrong. Have you got
2	yesterday's record somewhere? Monday morning's
3	record? I am capable of misinterpreting things,
4	too, I guess.
5	MR. WHITE: It might have been this morning.
6	I can't remember.
7	THE SPECIAL MASTER: Was it this morning?
8	THE WITNESS: This morning.
9	MR. WHITE: Maybe I can ask Wold if he
10	remembers.
11	THE SPECIAL MASTER: I know what it was week
12	before last. Week before last it was four months;
13	I remember that. I knew that was in jest, but I
14	wasn't too sure at the time I heard it.
15	THE WITNESS: It was half a day.
16	THE SPECIAL MASTER: It was what?
17	THE WITNESS: Half a day.
18	MR. WITNESS: It is still half a day if he
19	answers everything.
20	THE SPECIAL MASTER: It is half a day until
21	next Wednesday? I thought it was stated before we
22	broke up. I have a suspicion you gentlemen are
23	right. I don't find it anywhere. Well, in any
24	event

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MR. WHITE: We can find it by tomorrow morning,

Your Honor.

THE SPECIAL MASTER: I am going to work on; the assumption that you felt the worst case would be it would go until the middle of next week. That is two and a half days next week.

I will give you Thursday and Friday. I would ask you, Mr. White, to conduct your cross-examination within the limitations that I am about to impose now, which I believe are necessary, and that is to limit your further cross-examination on Dr. Mesghinna so that by the end of business at 5:00 on Friday next, three full days from now, you will have completed the cross-examination.

If that is burdensome, I think at least it does not take you by surprise and you can yourself adopt a measure of the depth of your inquiry into the subject matters in the days you have left to see what is possible in the areas you can get.

I've done some research on this, and I believe that's a fair decision. And I hope you can do your best to try to put it into those time constraints.

(By Mr. White) Dr. Mesghinna, on Page 7 of your Exhibit C-245, let's go back to cropping patterns.

Turn to Table 2, Page 7.

mesghinna - cross - white

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Q.

1	A.	Yes, sir.
2	Q.	Isn't it true that instead of 6 percent for small
3		grain nursing alfalfa in the areas lower than 5900
4		feet, it should be 16 percent?
5	A.	I suppose that has been corrected. In my book it
6		says 16. There was a typographical error in there.
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mesghinna - cross - white

1	MR. WHITE: I didn't get a replacement page,
2	Your Honor. Does the Court's copy of C-245 show
3	16 percent for areas lower than 5900 feet?
4	THE SPECIAL MASTER: No, it shows 46 for
5	grain nursing alfalfa?
6	MR. WHITE: Yes, sir.
7	THE SPECIAL MASTER: Six percent on areas
8	lower and 16 percent on areas higher.
9	Q (By Mr. White) Isn't it true, Dr. Mesghinna, that
10 .	both of these ought to be 16 percent?
11	A. Yeah, on both it ought to be 16.
12	THE SPECIAL MASTER: All right, I'll correct
13	my copy. That's a typographical error, is it?
14	THE WITNESS: Uh-huh, because if you add it,
15	it shows 100.
16	MR. WHITE: It only adds up to 90 otherwise.
17	THE SPECIAL MASTER: Very good.
18	Q (By Mr. White) See, I'm not as bad as they say,
19	Wold.
20	All right. Now, turning to Table 3 through 9
21	in your report, is your small grain nursing alfalfa
22	irrigation consumptive use included in small grain?
23	A. Excuse me?
24	Q Why is, in Table 3, for example, why is the small
25	mesghinna - cross - white

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grain as a nurse crop as opposed to small grain as
a cash crop or a fee crop?

A. I think that would require a short explanation. As
such, there is no crop called small grain nursing

such, there is no crop called small grain nursing alfalfa really. It is a management thing, more or less, to keep, to protect the alfalfa from the wind and other problems. There is no, as such, crop coefficient for it, I mean, for small grain nursing alfalfa, there is no crop coefficient. So what we do swe use the crop coefficient or the crop consumptive use of small grain until the small grain is harvested, and from then onwards we include whatever is left, which is alfalfa. So that's the

But in the -- If we see on Table 10, weighted net irrigation of water requirements for future lands, it is included there. Table 10, Page -- Table 10, Page 10, on C-245.

- Q I guess I just missed your answer. I'm getting foggy. Is the irrigation consumptive use for small grain as the nursing crop the same as small grain or same as alfalfa?
- A It is the same as small grain. It is the harvest.
- And then you change to alfalfa?

reason it is not here.

25 mesghinna - cross - white

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1	A.	And then you change to alfalfa.
2		THE SPECIAL MASTER: Is there much of that
3		done as a matter of actual practice or is that
4		only done on the first initial alfalfa crop?
5	1	THE WITNESS: Exactly, it's just on the
6		initial stage of the alfalfa crop, the first year.
7	. Q .	(By Mr. White) And what you're assuming in Table
8		2 then is that you're putting in a new crop of
9		alfalfa on roughly one sixth, one sixth of the land
10		each year; is that right? Where you have a small
11		grain nursing alfalfa or 16 percent.
12	A.	Yeah, 16 percent small grain nursing alfalfa every
13		year.
14	Q.	Okay. Wold, let'me hand you what's been marked as
15		Plaintiff's Exhibit WRIR FM-4, and ask you if you
16		can identify that exhibit which is entitled "Plan
17		for Completion of the Wind River Irrigation Project,
18		June, 1968", and especially Page 7, the first full
19		paragraph under project, which breaks the elevation
20		of 5500 rather than 5900 feet.
21		(Brief pause,
22	Ď.	Have you seen this before, have you worked with it?
23		THE SPECIAL MASTER: Are you familiar with it?
24		THE WITNESS: I might have seen it, but also I
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mesghinna - cross - white

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know -- I believe, I can't be 100 percent sure, there is another report by BIA which uses 5900, too, instead of 5500. It's not -- I can try to find it right now, I think I have the report, probably.

THE SPECIAL MASTER: Do you want to leave these for later for offering the whole bunch of them?

MR. WHITE: Yes, sir.

(By Mr. White) Dr. Mesghinna, I hand you what's been marked as Plaintiff's Exhibit FM-3, which is the letter on HKM Associates' letterhead dated October 17, 1980, followed by excerpts from the document entitled "Criteria for Selection of Project Study Areas, Wind River Indian Reservation", and the specific language which follows Table 2 -- excuse me, Table 3. And that refers to the highest elevations for certain types of crops, and in the last sentence, concluding that elevation of 5500 was the dividing between the upper and lower areas, can you identify that, have you used that in your work?

THE SPECIAL MASTER: You asked him three rapid fire questions in a hurry. Have you seen this?

mesghinna - cross - white

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1	THE WITNESS: No, I have never seen it.
2	THE SPECIAL MASTER: Are you familiar with it?
3	THE WITNESS: I'm not familiar with it.
4	THE SPECIAL MASTER: Have you ever used it in
5	your work?
6	THE WITNESS: I have never used it in my work.
7	MR. WHITE: Solved that problem.
8	THE SPECIAL MASTER: Do you want to knock off?
9	MR. WHITE: I'd like to knock off.
10	THE SPECIAL MASTER: We will stand in recess
11	until 9:15 tomorrow morning.
12	MR. WHITE: We can start a little early.
13	THE SPECIAL MASTER: If you want to come in
14	a little earlier and start working on the order
15	MR. CLEAR: We're typing an order up right
16	now.
17	MR. KROB: Your Honor.
18	THE SPECIAL MASTER: Yes, Scotty.
19	MR. KROB: Before we go off the record, I
20	wonder if it would be possible tomorrow to address
21	the State of Wyoming would like to address the
22	motion for expedited discovery that is now before
23	the Court. I believe there's a very short time
24	period, I believe the United States is already

familiar with the materials involved, and it's part

of our ongoing --THE SPECIAL MASTER: Why don't you use tonight and a little bit of tomorrow to see what you can work out tomorrow, I don't want to cut in on Sandy's allocated time with it, and see if you can work something out, and we'll address the problem tomorrow. MR. WHITE: Your Honor, I'd like to ask if anyone has Exhibit C-244, which is a climatic zone map. 10 MR. CLEAR: You have it, we gave it to you. 11 THE SPECIAL MASTER: Ladies and gentlemen, we 12 are in recess. 13 (Thereupon a ten-minute recess 14 (was taken. 15 16 17 18 19 20 22 23 24

(The following proceedings (began at 4:25 p.m. THE SPECIAL MASTER: We will call the meeting to order. We are in a special meeting pursuant to the matter just concluded regarding the order for the return of the computer programs now in the possession of Wyoming belonging to the United States. I am going to go ahead and sign this order that has been prepared by Mr. Echohawk and date it today. 10 Mr. White? 11 MR. WHITE: Your Honor, I've got to advise the 12 Court two things: 13 First, there is no way humanly possible that I 14 can comply with the order because I don't know --15 THE SPECIAL MASTER: You have already said 16 you would do the best you could. That's all we 17 can ask of you. You said you're not going to farm 18 out the thing or merchandise it. 19 MR. WHITE: I'm not going to peddle it or give 20 it away. 21 THE SPECIAL MASTER: You are not going to 22 peddle it. That's about all they are asking, I 23 They are entitled to the order. By the think. 24 way, do you mind if I change my name on the order

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1	so that it complies with my name?
2	MR. ECHOHAWK: We were in a bit of a hurry.
3	THE SPECIAL MASTER: That is the only time
4	the name Roncalio has ever been misspelled.
5	MR. WHITE: Your Honor, I would also indicate
6	I believe I'm entitled, once it has been provided,
7	to the State of Wyoming, to cross-examine Dr. Mes-
8	ghinna with respect to the computer program. The
9	program listing is not what is stated in here; it
10	is an example of the output.
11	I will proceed with respect to the exhibit,
12	which has been identified and made a part of the
13	record, to cross-examine him about that.
14	I will, however, provide to the United States
15	all the copies I can find. And I'm certainly not
16	going to peddle or sell the program. That's not
17	what we need it for; we need it for cross-examination.
18	THE SPECIAL MASTER: I understand. We will
19	convene at 9:15 in the morning. Here is a copy of
20	your signed order.
21	(Proceedings were recessed at (4:31 p.m.
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24	* * * * ,
<u>.</u>	

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1	REPORTERS' CERTIFICATE
2	State of Wyoming) : SS
3	County of Laramie)
4	We, Merissa Racine and John Boverie, Registered
5	Professional Reporters and Notaries Public, hereby certify
6	that we did at the time, date and place, as set forth,
7	report the proceedings had before the Honorable Teno
8	Roncalio, Special Master Presiding, in stenotype; that
9	the foregoing pages, numbered 4392-4572, inclusive, con-
10	stitute a true, correct and complete transcript of our
11	stenographic notes as reduced to typewritten form under
12	our direction.
13	We further certify that we are not agents,
14	attorneys or counsel to any of the parties hereto, nor
15	are we interested in the outcome thereof.
16	Dated this 5th day of May, 1981.
17	1 2. S.
18	MERISSA RACINE JOHN BOVERIE
19	Registered Professional Registered Professional Reporter
20	
21	
22	MERISSA RACINE - NOTARY PUBLIC COUNTY OF A STATE OF
23	LARAMIE WYOMING
24	My Commission Expires Mar. 10, 1984

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