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Trial Transcript, Vol. 62, Morning Session

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case # 4993

File # 149

4420

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) ALL RIGHTS TO USE WATER IN)
6	THE BIG HORN RIVER SYSTEM,) Civil No. 4993 AND ALL OTHER SOURCES, STATE)
7	OF WYOMING.
8	
9	(I DED
10	5/20 19.8/
11	Margaret V. Hampton CLERK
12	DEFUTY
13	
14	
15	VOLUME 62
16	Morning Session
17	Thursday, May 14, 1981
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25	ORIGINAL

409 West 24th Street Cheyenne, WY 82001 (307) 635-8280



201 Midwest Building Casper, WY 82601 (307) 237-1493

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	1	A D	PEARANCES
	2	-	
	3	FOR THE STATE	HALL & EVANS
	4.	OF WYOMING:	2900 Energy Center One Building 717 17th Street
	5		Denver, CO 80202 BY: MR. MICHAEL D. WHITE, Special
	6		Assistant Attorney General
	7	FOR THE UNITED STATES OF AMERICA:	MR. JAMES CLEAR and MR. JOSEPH MEMBRINO
الخار	8		Attorneys at Law Land and Natural Resources Division
	9		Department of Justice P.O. Box 7415
-8	10		Benjamin Franklin Station Washington, DC 20044
	11		anđ
	12		MR. THOMAS ECHOHAWK
Z	13	•	Attorney at Law Land and Natural Resources Division
0	14	•	Department of Justice 1961 Stout Street
	15		Denver, CO 80294
2	16	FOR THE SHOSHONE and ARAPAHOE TRIBES:	WILKINSON, CRAGUN & BARKER 1735 New York Avenue, N.W.
	17		Washington, DC 20006 BY: MR. R. ANTHONY ROGERS
	18		
	19	CLERK TO THE SPECIAL MASTER:	MR. LEO SALAZAR Attorney at Law
	20		701 Rocky Mountain Plaza Cheyenne, WY 82001
	21		
3	22		
•	23		
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entitled to inquire as to whether or not the evidence given by the witness is within the scope of the pleadings. THE SPECIAL MASTER: I take respectful exception to 3 that. If you find something in the pleadings which you 4 5 question, you have a right to show that it's in error or wrong and you may cross-examine this witness on anything 6 he raised in that regard, but I don't believe you can go to him and pinpoint each item of the Statement of Claims with 8 regard to his exhibits or his work papers, and I think 9 that's a fair ruling. 10 (By Mr. White) Mr. Stetson, I believe the totals for Ω 11 4 Crow Creek among the three exhibits, HS-3, 4 and 5 come 12 فكله out in the neighborhood of 3100 acres for roughly 16,500 13 00 تصمع acre-feet; is that correct? 14 THE SPECIAL MASTER: Which page are those totals, 15 تحسق Mr. White? The third? 16 MR, WHITE: They are not totaled, Your Honor. They 17 6-5 appear on each one, as I believe 1-G on the second page. 18 T THE SPECIAL MASTER: And can I hear the question 19 TC again, please? 90 20 40 21 22 23 4 6-4 24 (that correct?" Oct 25 white-cross-stetson

(Thereupon the question was read (back as follows: "O Mr. Stetson, (I believe the totals for Crow (Creek among the three exhibits, (HS-3, 4 and 5 come out in the (neighborhood of 3100 acres for (roughly 16,500 acre-feet; is

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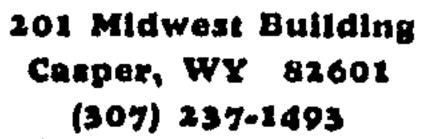
₹		
50	1	MR WHITE: I would like to ammend the question to
5 0	2	3100
80	3	THE SPECIAL MASTER: Do you want to strike the question
á	4	and try again?
50	5	Q (By Mr. White) Isn't it true, Mr. Stetson, that the totals
40	6	of the values shown under acreage in the annual diversion
	7	requirement for Crow Creek on the second page of exhibits
وتاس	8	3, 4 and 5 come out to be approximately 3100 acresDid
	9	I say 3100for roughly 16,500 acre-feet?
	10	A I didn't add up the acre-feet, but the acreage comes out
3	11	to 3122.
3	12	
	13	
التيمني التيمية	14	
	15	* * * *
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ت ش	20	
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(D)	1	Ω All right.
	2	A. You don't want me to verify the acre-feet?
- TO	3	0. Please. When I punched it out, I got 16,577.
(0)	4	A. Just eyeballing it, it's about 16,500.
	5	On Page 2 of the Statement of Claims five-eighths of
	6	the way down the page, do you find a claim set forth
	7	for Crow Creek?
29	8	A. I see Crow Creek, yes sir.
	9	Q. ' For 1200 acres?
3	10	A. For 1200 acres, yes sir.
	11	Q. For 4800 acre-feet?
	12	A. For 4800 acre-feet, with a Footnote 5, which says, on
2000 1000 1000 1000 1000 1000 1000 1000	13	Page 3, "Historical water requirements consume direct
	14	high flow hydrologic potential of these creeks. Therefore
	15	the claim is made for the noted water requirement or all
	16	of the direct flow of the creek, whichever controls."
	17	Q Isn't it true that the 3122 acres and the 16,500 acre-feet
70	18	are between two and three times the amount of the stream,
	19	ignoring the footnote, as the amount claimed on Page 2?
	20	THE SPECIAL MASTER: Mr. White, I made the ruling
	21	and you are in contempt of that ruling. You think you
المياس المياسو	22	can just go on and go around it. And I admire your
لتلسو	23	gall, but I don't think it ought to be done.
- H	24	MR. WHITE: Well, I
فعشو ۵۱	25	stetson - cross - white
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THE SPECIAL MASTER: I don't think you ought to do it. I think you can take your exception, or you have an automatic exception already granted as a matter of course. Make your offer of proof and build up that record and just tear me apart on appeal.

MR. WHITE: I apologize, Your Honor. I did not intend to be contemptuous. I thought the ruling was I could not make the inquiry generally and you were asking me to do it with specificity.

THE SPECIAL MASTER: I allowed the difference. You did a difference in those totals and got it in the record. I think you ought to not belabor the point now.

MR. WHITE: Okay. Your Honor, we have no offer of proof to make in this matter, simply because, as a practical matter, it is impossible to try to determine how the evidence fits in or doesn't fit in the Statement of the Claims.

I guess I could make a short offer of proof on certain obvious and glaring discrepancies.

THE SPECIAL MASTER: That, plus the fact, I think, Mr. White, counsel for the Tribes or for the U. S. has said on several occasions that the Statement of Claims was a ballpark going-into-the-lawsuit document, and it's going to have a lot of changes before you come home

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5	_11	
	1	with your case. And I suppose we will be stipulating
T.	2	to a lot of changes.
Ć	3	So, I think again my ruling is not burdensome or
t	4	unreasonable.
も	5	MR. WHITE: Very well, Your Honor. The State of
ð	6	Wyoming would make the following offer of proof as
Ö	7	being illustrative of the variations between the
*	8	Statement of Claims and the evidence submitted solely
	9	through Mr. Stetson.
43 43	10	It would be pointed out that this evidence through
		Mr. Stetson does not include evidence that has been
4	11	given through other witnesses, such as Dr. Mesghinna,
4	12	
4	. 13	but solely through evidence presented by Mr. Stetson.
	14	We point out values, from Mud Creek are up twice
4	15	as large, and the evidence ought to be submitted as
•	16	roughly twice as large as the extent of the claim.
Û	17	The same thing would be true for, I believe, Bull
انگ مذر	18	Creek.
E E	19	THE SPECIAL MASTER: First you are dealing with
Ť.	20	the Crow, and then the same thing would be true for
Ť	21	what?
Ť.	22	MR. WHITE: I asked about the Crow already, Your
€ Æ	23	Honor, and then the offer of proof goes to Mud Creek
<i>4</i>	24	and Bull Creek
M	25	THE SPECIAL MASTER: I can't hear this morning.
Ħ		



MR. WHITE: To Bull Lake Creek.

THE SPECIAL MASTER: Bull Lake Creek. Thank you. And others?

MR. WHITE: Dry Creek would be roughly three times as large; Five-Mile Creek, 50 percent greater; Muddy Creek, 50 percent greater; Sage Creek, 20 percent greater.

If allowed to pursue, the State would show that evidence has been submitted for creeks for which no names have been made, such as Spring Creek and Big Horn Creek.

Evidence has been submitted through this witness which is not related to the claims, insofar as it simply relates to the Ray Unit, Coolidge Unit, Sub-Agency Unit, and other such generic units.

Also, I would add Sand Creek to the list of those creeks for which no name was made but evidence was submitted.

I would point out -- and that concludes the offer of proof -- and I would point out this is an area in which virtually no discovery has been made, because the work was done shortly before trial. And that's all.

THE SPECIAL MASTER: Sustained because it is all time consuming to the rest of your case. I think we should include that. There is so much we can do. All right.

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MR. WHITE: And as a part of the offer of proof, I ought to say, Your Honor, that had the State been allowed to bring out those discrepancies with respect to Crow Creek, as well as the other creeks that were included in the offer of proof, I would move to strike the evidence on those matters as being outside the scope of the pleadings.

(By Mr. White) Mr. Stetson, with respect to the annual diversion shown on HS-3, the adjudicated lands, did you make any determination of the points on diversion, or diversion in conveyance of facilities which would carry those annual diversions, or divert those annual diversions?

MR. CLEAR: What annual --

MR. WHITE: Carry or divert.

- With respect to project or non-project or all?
- With respect to all, first, and then if one answer can't Q. deal with all of them, we will go into the specifics of the various individuals.
- Well, in connection with the preparation of these figures, we didn't actually go back and check which canal they would come out of, but in our over-all studies, we've checked and looked at the canals in all of the project units, and in our tour of the reservation, we have looked at most of the canals that would serve

stetson - cross - white



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	1	the non-project lands.
	2	
	2	Q Would you please describe those diversion facilities
	3	and ditches which would divert and carry the water
	4	diverted for the 259 acres on the East Fork of the
	5	Wind River, having a total annual diversion requirement
ويست	6	of 1310 acre-feet?
	7	THE SPECIAL MASTER: Total?
وي وير	8	MR. WHITE: An annual diversion requirement
	9	of 1310 acre-feet. That should be up at the top of
3	10	the second page, at the top of HS-3, Your Honor.
1	11	THE SPECIAL MASTER: Got it.
	12	A. I would need the set of maps that shows Do we have
	13	those maps over there, Joe?
	14	Well, our set of maps on the historic lands does not
وترسم	15	include the sheet that I need, because it is in the
· ·	16	photo 6 series. I presume it is in evidence somewhere.
3	17	Ω Why don't we pick out one. How about Dinwoody Creek,
2	18	with an annual diversion requirement of 95 acre-feet.
	19	Would that be in your stack of maps?
المستر	20	THE SPECIAL MASTER: Be in your what?
1	21	MR. WHITE: The stack of maps or volume of maps
	22	in front of him.
ا المارين	23	A. It would, if I can find the aerial photo numbers.
ا ا	24	* * * *
	25	stetson - cross - white
J. A.		

of them makes which

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- (By Mr. White) Mr. Stetson, I'm looking at HS-1 on Page 13, and it looks like it would be Page 185.
- A. Yes. On 8-185 most of the parcels are unadjudicated trust land, but there is a parcel which is simply labeled "A" which is adjudicated lands off the Phillips Ditch. There are several others.

I think Parcel B, which are large parcels,
have adjudicated -- I can't tell from this exactly
which parcel is the 17 acres, because in determining -- it
may be this small parcel -- there are two parcels
labeled "A". There is one off of the Leary Miller
Ditch which is a very small parcel. There's one off
the Phillips Ditch which looks to be maybe 25 or 30
acres, so I can't tell which exact parcel it is.

In connection with the adjudicated lands, we did not go out and check the specific canals serving the specific parcel as we did on the Type VII lands because we were asked to come up with the water requirements for the lands, not the water service to the lands.

Mr. Stetson, wouldn't the annual diversion requirement, however, require you to determine for non-project lands the conveyance efficiency through the ditch which serves that land?

stetson - cross - white

1	A. But we didn't do it that way. We derived what we
2	called an achievable overall efficiency of 35 percent.
3	We have not presented the historic efficiency which
4	would have been much lower in most cases.
5	Q With respect to the adjudicated lands, did you
6	determine the costs of achieving that efficiency in
7	a manner similar to the way in which you developed
8	costs for the Type VII lands?
9	MR. CLEAR: I think we went over this yesterday
10	with
11	MR. WHITE: Absolutely not, Your Honor. It was
12	about the Type VII lands yesterday.
13	MR. CLEAR: No, he testified that he did go into
14	the Type VII, but I believe there was a line of
15	questions on the other types of lands.
16	THE SPECIAL MASTER: I think he touched on them
17	yesterday, but he can go ahead.
18	MR. WHITE: Would you read the question, Vi?
19	(The above question was (read back by the reporter:
20	("Q With respect to the (adjudicated lands, did you
21	(determine the costs of (achieving that efficiency
22	(in a manner similar to the (way in which you developed
23	(costs for the Type VII lands?"
24	A. First of all, the costs we developed for the Type VII
25	stetson - cross - white
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lands was not necessarily to achieve the efficiency. It was simply to restore service to lands that once had service and that service had been interrupted.

We are saying that overall we think we can in the future achieve an efficiency of 35 percent. We also feel that with time in the adjudicated lands or the unadjudicated now in-use lands, we can achieve an efficiency of 35 percent.

Sometimes achieving the better efficiency doesn't really involve a large investment in cost. Sometimes it's simply management.

(By Mr. White) Mr. Stetson, specifically, however, did you develop any cost figures either similar to those for Type VII lands or not which would be required to achieve the efficiencies which would -- let's start again.

THE SPECIAL MASTER: I was going to say that question you just asked, even though you pulled it back, has been asked and answered.

MR. WHITE: I don't believe so, Your Honor. Let me try again.

- (By Mr. White) Did you develop any costs whatsoever for Q. the unadjudicated trust lands that would be necessary to be incurred before the annual average diversion listed on HS-3 could be achieved?
- Let me see if I can help clarify this. The question you

stetson - cross - white

1		first started was on adjudicated lands. In your second
2		question you said unadjudicated lands on HS-3, and I pre-
3		sume you are still talking about the
4	Q.	I'm talking about adjudicated.
5	A.	Adjudicated trust lands?
6	Q.	Right.
7	A.	We did not develop any costs.
8	Q.	Thank you. Now, let's go to unadjudicated lands on HS-5.
9	A.	On HS-5, yes, sir.
10	Q.	Did you develop any costs at all which would be required
11		to be incurred in order to make the annual diversion re-
12		quirement available to the lands indicated on HS-5?
13	A.	Well, first of all, with respect to the project lands,
14		those efficiencies and unit diversions have been achieved.
15		Those are the historic.
16		With respect to the nonproject and the specific
17		answer to your question is, no, we did not do any cost
18		estimates on those.
19	Q.	Let's flip back to the project for just a minute. Do you
20		know whether or not the facilities are in place to serve the
21		unadjudicated project lands on Page 1 of HS-5, which would
22		require the expenditure of no further costs in achieving
23		the irrigation of those lands through the withdrawal of
24		the annual diversion requirement from the streams involved?
25	ste	tson - cross - white
	 	

1	Mell, these unadjudicated trust lands are the lands that
2	have been under irrigation. I believe Mr. Billstein said
3	they were under irrigation as recently as 1980 on some of
4	them, but overall he was talking about the last two or
5	three years, so I have to assume that those facilities are
6	there and are serving those lands.
7	Q And the costs involved for the Type VII lands are the costs
8	you went over with Mr. Merrill yesterday afternoon; is that
9	correct?
10	A. Yes, sir.
11	THE SPECIAL MASTER: You got a sheaf
12	MR. WHITE: I have got to get those back, and I had
13	forgotten to bring those.
14	THE SPECIAL MASTER: You had 149,000 pages or some-
15	thing like that.
16	MR. WHITE: When we take our break, I will get those
17	back,
18	I believe we got the originals back to you?
19	THE WITNESS: Yes.
20	THE SPECIAL MASTER: He also won a one dollar bet.
21	MR. WHITE: It was a safe bet, Your Honor.
22	Q (By Mr. White) Turning to the unadjudicated lands on
23	HS-5
24	A. Yes, sir.
25	stetson - cross - white
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1	Q.	did you make a determination or identify the point of
2		diversion and the ditch through which the diversion would
3		be carried of the average annual diversions listed on
4		Pages 2 and 3 of HS-5?
5	A.	Only to the extent that those lands appear on the historic
6		land claims maps, and I don't know whether this is an
7		exhibit or not. It's our worksheet.
8		Historic lands claim is
9		MR. WHITE: Could we have a small break, Your Honor?
10		THE SPECIAL MASTER: All right.
11		MR. WHITE: We might be able to save some time.
12		THE SPECIAL MASTER: All right, let's recess and take
13		the time you need to try to proceed, but let's stay in
14		session.
15		(Off-the-record discussion.
16		THE SPECIAL MASTER: Back on the record, please.
17		MR. WHITE: We still have another volume of maps to
18		check, Your Honor.
19		(Off-the-record discussion.
20		
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withdraw what has been marked as HS-13 and try to get a reduced version of these, so that it would be easier to keep it ingthecrecord, so that we are not going to have such a bulky record in this case. And since this is our only copy, we can continue to work with it.

THE SPECIAL MASTER: All right. Permitted.

- Q (By Mr. White) Mr. Stetson, I've handed you a copy of what is marked MSE12 and ask you if, with the exception of the face and the numbers which appear in circles on pages on HS-10 and HS-12, if that is a photostatic copy of the cost estimates for Type VII lands in and out of the Federal Irrigation Projects, which you shared with Mr. Merrill at the end of yesterday's proceedings?
- A Yes, I believe it is. All the pages on the copy you handed me do have a page number on them, and some of them are--
- Q Did we miss some?
- A Some are slightly out of order. I'm just looking. I was checking to make sure you had included those little sketches, which you did. And those are usually marked with a page number and an "A," in other words, matching the page number to which it was attached.

But after page 118 there is a page "South Fork Owl Creek;" that doesn't have a page number on it, followed by a page 119A, which is a map, which is then followed by

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	25	stets	on - cross - white
	24		MR. WHITE: We would offer these at this time well,
والم	23		THE SPECIAL MASTER: Make smaller ones of these?
	22		MR. WHITE: Your Honor, I would similarly ask to
المان ال	21	A. 1	No, you cannot tell on that set of blue lines.
	20	•	the ditches which serve those tracts?
	19		unlike HS-13, you cannot tell the points of diversion and
التي مرا التي مرا	18		contained in the package that's been identified as HS-14,
المنظمة	17		(By Mr. White) Isn!t it true that from the maps which are
	16		Yes, they appear to be.
	15		(Off-the-record discussion.
	14		Type VII lands?
	13		used in identifying the various tracts included within your
	12		with Mr. DiMaggio on that of the blue lines which you
1			ask you if that is a copy and you may want to consult
) //3	10		Now, I hand you a copy of what's been marked as HS-14 and
~ 3	9		
			Look at the ditches.
وستناء	8		checked back through the maps to see and in the field to
	7		es. We may not have identified them by name, but we
	6	ć	liversion with the acres as shown?
~う ~き	5	Q. <i>I</i>	and did you identify the ditches to connect the points of
	4	A. 3	čes.
	3	ā	creages shown on HS-4?
	2	ć	liversion requirements shown on HS-4 for the corresponding
~	1	Q. E	id you determine the points of diversion for the annual
- 9	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,		1

5 not at this time, but when we finally get around to offering them, but at that time I would like to be able to withdraw them. THE SPECIAL MASTER: And the document in your hand? 4 MR. WHITE: This is HS-14, and the other one I would 6 like to withdraw is HS-13, Your Honor. THE SPECIAL MASTER: You will want to offer those this morning with the previous twelve but then pull them back to 9 make the small copies? 10 MR. WHITE: We may not be able to, Your Honor. We may 11 have to give you these, Your Honor. THE SPECIAL MASTER: Whatever. 12 (By Mr. White) Mr. Stetson, if the points of diversion of the 13 Q. ditches are not identified on HS-14 for the Type VII lands, 14 are they then identified in HS-12? 15 Well, on HS-12, depending on which parcel it is, there may 16 A. 5 be references to ditches, but there aren't on all sheets, 17 and -- there's references to where ditches are needed, but 18 4 we will have a cost estimate in there for either adding a 19 ditch or extending a ditch. They are on our work maps. 20 Look at Page 1 of HS-12, which I believe relates to Field 21 Q. No. 10-1-X? 22 Yes. A. 23 And I ask you whether or not you are able to determine the Q. 24 25 stetson - cross - white O LONG



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	1	A It was on the East Fork of the Wind River, just upstream of
	2	the parcel.
	3	Q And do your maps show that point of diversion, the annotated
	4	diversions of your maps?
نتاسی نتاسی	5	A. Yes, it shows an X there.
ر ما	6	Q Would that also be true for the other parcels identified on
	7	Pages 2, et seq., in HS-12, I believe it is?
فكس	8	A. Yes, it would be. If the headworks were required and a
مثلث المثلث	9	ditch were required, it would be indicated on these, yes.
طاس ظاسی	10	Q Can I look at your copy for just a minute?
3		A. Yes, sir.
فظمت	11	
ھئ	12	MR. WHITE: Off the record.
هن	13	(Off-the-record discussion.
وي	14	THE SPECIAL MASTER: White Mr. White is looking, Mr.
چسمن چسمت	15	Stetson, what is a turn dot?
والمستحدث	16	THE WITNESS: That's a turnout.
الشريخ	17	THE SPECIAL MASTER: Oh, I beg your pardon.
-	18	THE WITNESS: It's a turnout on the canal.
	19	Q (By Mr. White) Mr. Stetson, I notice that in some cases
	20	you have blue lines and in some cases you have red lines.
المستخدمة المستخدمة	21	Any significance to the different colors, or do they just
فتمشئ		mean the same?
المنتسق	22	
تشن	23	A. Generally, they mean the same. Some of those were put on
	24	these maps before we went out in the field, the last
ور الا	25	stetson - cross - white
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	i !		
	1		field trip. They were put on from other maps in the
9	2		office, such as USGS quadrangle sheets. Others were
	3		added in the field, but in general but don't pin me
الماستين ا	4		down to it but in general the red means an existing
	5		ditch and the blue not, but that's not always true.
3	6	Q.	Okay.
٠	7	A.	Because they are just worksheets.
	8	Q	Mr. Stetson, I notice that some of your parcels are plain
3	9		gray on the blue line and others are highlighted with an
	10		orangish color. Is there any significance to that?
الماست	11	A.	Yes.
	12	Q	What is that significance?
	13	A.	That means those are Type VIII lands.
المسترين المسترين	14	Q	Okay.
وسنترس	15		THE SPECIAL MASTER: The organge is Type VIII lands?
المان المستونسين م	16		THE WITNESS: Yes, sir.
المانينس ويسيد	1"		,,,,,,,
المسيدان	10		
و است	18		
	19		
و استون مستون	20		1
-	21		* * * *
- مناخ	22		
المناسق	23		
المستسر	24		
المناسط هرسر	25		



4	25	white-cross-stetson
المناسخة	24	we are bėżng pretty quiet.
المشتن	23	MR. WHITE: It is still early in the day, Your Honor;
	22	THE SPECIAL MASTER: I'm sure they will.
وسندس	21	if I misstate it along the way, to jump right in
	20	The agreement is And I would invite other counsel,
	19	concurrence.
المارسية المارسية	17 18	and obtain the Court's approval and the other parties'
	16	agreement, on which I would like to provide for the record
المكسر مع المكسور	15	the State and the United States and the Tribes reached an
	14	A Yes, it is. MR. WHITE: Your Honor, during the last short break
	13	HS-14?
المناسخ المناسخ المناسخ	12	annotations on them in addition to the blueline material on
4	11	set of maps or bluelines for Type VII lands, which have the
	10	been informally marked as 14-A and ask you if that is the
	9	Q (By Mr. White) Mr. Stetson, I will hand you what has
-	8	Back on the record.
3	7	THE SPECIAL MASTER: All right. Please come to order.
	6	MR. WHITE: We are ready, Your Honor.
	5	(record.
	3	THE SPECIAL MASTER: Let's go offthe record. (Discussion was held off-the-
	2	record discussion with U.S. counsel.
	1	MR. WHITE: Your Honor, I would like to have an off-
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The agreement is at the conclusion of Mr. Stetson's testimony, the State may remove HS-14-A and make copies of the
exhibit as annotated.

In the event that the annotations are in color, such as different colors for the ditches, the State will annotate the colors on the copy as well.

The copy of 14-A made by the State, as well as the original of 14-A, which we will mark today, will then be given to the United States.

Counsel for the United States will then--

THE SPECIAL MASTER: It will be given to counsel for the United States?

MR. WHITE: Yes. Counsel for the United States will then determine, I assume with Mr. Stetson's and Mr. DiMaggio's assistance, whether the annotations have accurately been transferred from the original 14-A to the State's copy of 14-A.

Once they make that determination, then the copy of 14-A will be substituted for the original of 14-A in the Court's File. The original of 14-A will be returned to Mr. Stetson and the copy of 14-A will go into the record and replace not only the original of 14-A, but also HS-14, which is the same material without the annotation.

Then, if any issue arises because of the annotations contained on HS-14-A, the United States as part of their

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6	1	case in chief may recall Mr. Stetson to testify as to
بيستر	2	those issues, in spite of the fact the same general sub-
	3	ject matter of his testimony has been touched upon during
التست	4	his direct and cross-examination during the last several
التيسند التيسند	5	days.
الماري التأسيم	6	THE SPECIAL MASTER: Did Mr. White accurately state
3	7	the stipulation, Mr. Rogers?
	8	MR. ROGERS: I believe he did, Your Honor.
	9	THE SPECIAL MASTER: Did he state the stipulation
5 -3	10	according to your recollection, Mr. Membrino?
	11	MR. MEMBRINO: One moment, Your Honor.
	12	THE SPECIAL MASTER: Did he state it according to
	13	your understanding?
و الم	14	MR. MEMBRINO: It is all right, Your Honor.
	15	THE SPECIAL MASTER: Then, Mr. Echohawk?
	16	MR. ECHOHAWK: Yes.
	17	THE SPECIAL MASTER: And Mr. Clear?
	18	MR. CLEAR: Yes, Your Honor.
	19	THE SPECIAL MASTER: Okay.
	20	MR. WHITE: It is all right with Your Honor?
وسننسئ	21	THE SPECIAL MASTER: Yes, it is indeed.
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-	23	* * * *
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THE WITNESS: Could I ask one question?

MR. WHITE: Yes, sir, I'm at your disposal.

THE SPECIAL MASTER: Where does that leave you?

THE WITNESS: I assume that means when we get that back, that we will not be working with it and erasing or adding lines because if we do that in connection with any other work we are doing, it would be difficult to go back and check it against your copy. Will check it against your copy first.

MR. WHITE: I'll tell you what we will do: We will give you and uncolored copy so that you have got all of the annotations, just different colors, and you'll have your own copy so you will know the colors of the original annotation and that way you will know whether or not you added annotations. Is that all right?

THE WITNESS: That's all right, I just want to make sure that someone from our office doesn't make some additions or deletions and then we getha calk to bome back and verify something and we would maybe be makingga big mistake.

Imunderstand. We don't want to put you MR. WHITE: in a bind, and if that's okay with the United States--

MR. CLEAR: Yes.

MR. ECHOHAWK: Yes.

THE SPECIAL MASTER: Is HS-14 the one that has the

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1		requirement listed for unadjudicated trust lands on HS-5?
2	A	Yes, it is.
3		THE SPECIAL MASTER: On project and non-project? Both?
4		THE WITNESS: On non-project only.
5		THE SPECIAL MASTER: On non-project only.
6		MR: WHITE: His answer was with respect to non-
7	; ;	project.
8		THE SPECIAL MASTER: I beg your pardon.
9	Q	(By Mr. White) And would that be similarly true with
10		respect to the non-project lands on HS-3, the adjudicated
11		lands?
12	A	Yes, it would.
13	Q	And I believe you previously indicated that the Strike
14		that. I'm not sure you did.
14 15	!	Did you assume that the Type VII lands would be
16		irrigated by hand move sprinklers or not?
17	A	On Type VII?
18	Ď	On Type VII.
19	A	There were a few parcels that if they met the minimum
20		size requirement, right shape and perhaps a pumping
21		diversion, where we estimated the cost on the basis of hand
22		move sprinklers, but they were in the minority.
23	Q	Would you take a look at page 2 of HS-12 where you do have
24		pump costs and tell me if this would be an example of
25	whi	te-cross-stetson

ويتصور	1		where you would be using hand move sprinklers?
الم	2	A	No, it is not. As a matter of fact, you are looking at
-5	3		Field 10-2X?
	4	Q	Yes.
ن س سر ا انتشد	5	A	That field, although it had a pump and pipeline to serve
	6		it, did not have sprinklers. Where the sprinklers could
المنظمة الم	7		be identified is where on the on-farm systems we would
المسلمة معاد	8		show a unit cost per acre of \$130.
المثالي المثالي	9	Q	So we gust flip the pages on Exhibit HS-12, look at the
612	10		on-farm system column and where there's \$130, there that's
وسنة	11		hand move sprinkler?
-	12	A	That should be a sprinklera field that was analyzed on
هيد	13		the basis of sprinklers.
طبور ال سور	14	Ď	Everything else is surface irrigation of some type?
الأسرا	15	». N	Surface irrigation, yes, sir.
هندم	16	Q	Did you make any assumptions as to the type of surface
		~	irrigation involved?
المستريخ المستريخ	17	_	
	18	A	We did to the extent that we would put the head ditch in
	19		and that would be part of our on-farm cost, but as far as
	20		the detail of whether that was to be flood irrigated,
	21		panel-type irrigation, furrow-type irrigation, we did not.
	22	Ω	So the costs here are project costs rather than on-farm
الكسمة	23		cost\$?
	24	A	Yes, except where we have the on-farm sprinklers.
المسند ع	25	wh i	te-cross-stetson
- المعتمد		-,,	

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-61	1	Q	With the exception of \$130 project cost?
-50	2	A	Yes.
ق	3	Ö	Now, such as on page 2-A where you have a copy of the
- -	4		topo map, the USGS quad sheet
- 	5	A	Yes.
مين التاب	6	Ω	is this just a refined version of the information which
<u>چ</u> سہ	7		would appear on HS-14A.
هکنز	8	A	Yes. In this instance we wxeroxed out a portion of all
(الم			
~ ?	9		US Geological Survey, quadrangle which had the topo-
فند	10		graphy on it because we are making the diversionsseveral
ن ر	11		miles upstream, and then we have to parallel the stream,
هيسور 12	12		and we cross some side drainages with syphons, and that's
جسور ج سین	13		why we did it for that particular parcel.
هنس	14	Ö	Who did the design work for these diversion facilities?
ونسر.	15		Did you do∴it or what
(ب ستر,	16	A	Mainly Mr. DiMaggio under my direction and incidentally, that
الميسور الميسور	17		particular parcel was found not to be feasible.
ن سور	18	Ω	Is it true that the worksheets in HS-12 included both
			6167
-	19		feasible and unfeasible projects, or parcels, rather?
إسبر	20	A	Yes, yes, they do.
	21	Q	Is it true that on HS-14-A those pages that have projects
اسم	22		X'ed out with the word "Out" on them are those fields that
المارين المارين	23		you determined to be unfeasible?
المنسمة	24	A	That is generally true, but I don't trust that answer a
للسمد	25	, early	ite-cross-stetson
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1		hundred percenter For a hundred percent answer I would
2		go to Exhibit HS-11.
3	Q	All right. At the top of the first page and many of the
4		following pages on HS-12 there's a place int the form that
5		says, "Water short, yes or no"?
6	A	Yes, sir.
7	Q	What does "water short" mean?
8	A	These would be areas in which HKM has preliminarily
9		advised us of where an area is water short. In that event
10		we would circle the yes.
11	Ω	Does water short mean that there is not physically enough
12		water available at the anticipated point of diversion to
13		fulfill the diversion requirement for this particular
14		field or tract?
15	A	It may in some instances, and in other instances it may
16		be because of other uses of the water upstream.
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1	Q Okay. What kind of uses, if you know, would
2	A Other water right holders upstream that may be using the
3	water.
4	THE SPECIAL MASTER: But you don't actually define
5	water short"? There are some in this State that could
6	put the circle around the entire reservation and call it
7	that.
8	THE WITNESS: I imagine some could put it around the
9	entire state.
10	THE SPECIAL MASTER: The State of Wyoming.
11	THE WITNESS: Including California.
12	THE SPECIAL MASTER: Sure, maybe we had better put a
13	definition on it, if we can. But I think you have.
14	Q My understanding of why you didn't do any of the evaluation
15	on the 'water short'," this is just a reproduction for your
16	own purposes of the information which HKM gave?
17	A Yes.
18	Q And if you want to know what "water short" means, we can
19	ask HKM when they show up; is that right?
20	A Yes, sir.
21	Q Where you determined that a tract was water short or
22	circled "yes," such as on page 9, was that tract or were
23	those tracts where you circled "yes" included or excluded
24	from the values on HS-4?
25	stetson - cross - white
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1	A	Some of them were and some of them weren't.
2	Q	What was the criteria which you used to determine which
		ones were and which ones weren't?
4	A	Those criteria really came from the economists.
5	Q	I'm sorry, go ahead.
6	A	What we did was we developed the costs to serve each parcel.
7	Q	Assuming the water was available?
8	A	Assuming water was available. When the economist we
9	**.	would circle the "yes" so the economist knows that this
10	·-	area preliminarily is indicated to be 'water short'.
11		The economist then takes that into consideration,
12	· ·	is my understanding, the return or the yield from that
13	<u>.</u>	land.
14	Q	Is it true, then, whether "water short," in the form of
15		a circled "yes" or "no," made no difference whether you
16		included these different tracts in the claim or in the
17, es 4		Exhibit HS-4?
18	A	Not "water short" per se, but if because it was "water
19		short the returns were not sufficient to justify the
20		cost, and we declared that one unfeasible, then, that
21		would not be included in the acreage.
22		THE SPECIAL MASTER: In HS-4?
23	A	In HS-4.
24	O	And questions concerning how that water chart information
25	stet	son - cross - white
	 	



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	1		was used or properly addressed to Mr. Dornbusch; is that	
	2	correct?		
	3	A	A That's correct.	
	4	ΰ	On page 10 I believe on other pages of the annotations	
	5		with respect to bedrock, this one on page 10 says "Bedrock	
3	6		at four feet. Low WHC," or water holding capacity, I	
) 	7		assume. That would be in the second row.	
	8	A	Yes, sir.	
	9	Q	Where you found values for bedrock which were less than	
	10		six feet, were those parcels included in the acreage dis-	
	11		played on HS-4?	
	12	A	Only if we could supply proper drainage, including the cost	
	13		of that, and it would still qualify from an economic stand-	
	14		point. This particular one on page 10 did not qualify.	
	15	Ũ	Whereas on page 2 you talk in the alternative. I believe	
	16		you told me page 2 was one that was not included, but	
	17		where you did, as on page 2, develop an alternate set of	
	18		costs. Which was used to determine feasibility, if you	
	19		know; the original or the alternate?	
	20	A	Both would be. That was the reason for the alternate.	
	21		On that particular analysis we had a pump diversion, but	
	22		when we got down to computing energy requirements, we	
المستنصح المستن	23		ended up with a very high cost of energy.	
9	24		So, then we did a gravity to see what that would	
هنتسق	25	ste	tson - cross - white	
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annual cost. it didn't qualify. 6 look at it. 10 11 12 doing that? 13 14 15 16 problem. 17 MR. WHITE: 18 that. 19 20 21 22 23 go ahead. 24 stetson - cross - white 25

show, and it showed a lesser capital cost and lesser total But when those were handled by the economist and converted to present-value costs and present-value returns, THE SPECIAL MASTER: Neither one qualified? THE WITNESS: Neither one qualified. We put those alternates in there to give the economist another way to (By Mr. White) In developing the costs that are set out across the pages in Exhibit HS-12, did you have any standard costs or standard unit costs which were utilized in MR. CLEAR: Your Honor, you may recall yesterday afternoon Mr. Merrill, when he examined Mr. Stetson about costs, he said at four o'clock he was done with that He hasn't even had a chance to look at

THE SPECIAL MASTER: He said he was through with the cross-examination, but the fact he took back a set of documents that is now HS-12, I think was done so there would be some questions asked on it today. So, I think we can



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	1	MR. WHITE: As you are aware, Your Honor, I am trying
	2	to get some unit values so we don't have to go through
	3	each one.
	4	THE SPECIAL MASTER: You may answer that.
بستائز دند آر	3 5	A Yes. We developed the unit values on a number of features.
	3	Q Could you give me those?
فسنهم	3	A For head works
ابد واست	9 8	Ω Do you have some figures there in some tabular form so
المنتبعة الم المنتبعة الم	9 . 9	we don't have to go through them?
	10	A Someday I'll learn not to reach for my papers. I'm just
المستنطقة	2	kidding.
	3 12	Q Do you have them in tabular form?
كالمستعمد	2 13	A Yes, sir.
	3 14	Ω May I see them, please?
المنافق أنسط	9 15	A Yes, sir.
	2 16	THE SPECIAL MASTER: These are headgate costs?
المناس	9 17	THE WITNESS: Well, it is a number of features.
المتطمئة	3	MR. WHITE: There are a number of costs, Your Honor.
المتنظمة المتنظمة المتنظمة	9 19	We may have saved ourselves about an hour here.
الشبششط التبلنت	2 0	THE SPECIAL MASTER: All right. I assume there will
	21	be no objection to him copying what you just handed to
	2 2	Mr. White?
التينيسية 4 أ. أ	2 3	THE WITNESS: I didn't know I could object.
المتحمين	24	THE SPECIAL MASTER: I will look to your attorneys
كناسا	25	stetson - cross - white
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	1	for that. Counsel for the United States, do you have any
استارت	2	objection to having this copied?
	3	MR. CLEAR: I would like to see what they are.
	4	MR. WHITE: I will state for the Court we can probably
	3 5	copy them and save about three hours here of cross-examina-
	6	tion.
	7	THE SPECIAL MASTER: We have heard that before.
	8	MR. WHITE: I thought I was going pretty good for a
وستمتن	9	witness we hadn't deposed.
	10	THE SPECIAL MASTER: You did say you would be through
والمستنفئ	11	by noon.
	12	MR. WHITE: I didn't say that.
	13	THE SPECIAL MASTER: Off the record for a moment.
، فأرين ا	14	(Discussion was held off the record.
دفار الماسخة	15	THE SPECIAL MASTER: Back on the record, please. Mr.
مراشی د ا	16	Clear?". 055%%;
	17	MR. CLEAR: We have no objection, Your Honor.
-	18	THE SPECIAL MASTER: Thank you. Will you have them
	19	returned this afternoon?
	20	MR. WHITE: We can do better than that. When we
	21	take a break during the morning, I will get them copied
•	2 2	then.
	23	THE SPECIAL MASTER: All right.
المستند	24	MR. CLEAR: Perhaps now would be a good time to break.
	25	MR. WHITE: That would be all right with me.
		Frontier Reporting Service



THE SPECIAL MASTER: You want a five minute break? MR. WHITE: Yes, Your Honor. THE SPECIAL MASTER: All right. We will break for 3 five or ten minutes. (Proceedings were recessed at 5 (10:50 a.m. for ten minutes. 6 13 14 16 19 22 23 24 25

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of \$15,000 for headworks in the Wind and Little Wind, and it would appear from the computations at the bottom of page 1 on HS-12 -- excuse me -- \$15,000, that you used \$15,000 for parcel 10X?

A. Yes, we did.

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And that is based, what value you used, according to Q. 2 (1) toward the middle of HS-15, depends on the peak flows 3 of the creek; is that correct? 4 Yes, in general that is a guideline we set up. A. How did you determine flows of the creek for the various Q. 6 parcels? We probably looked at the U.S. Geological Survey daily A. peak flow records and just estimating what they would 9 be during irrigation. And it's not all that precise. We 10 are really trying to find out whether we needed a large 11 size, medium size or small size headworks. 12 And for those tributaries where you had no gauges, you Q. 13 looked at the general size of the water shed? 14 The water shed. We just estimated it, yes sir. Α. 15 In determining the capacity of the ditch, referring to the Q. 16 bottom of the first page in HS-15, you depended upon the 17 parcel size; is that correct? Seventy acres being the 18 break point? 19 Yes. Α. 20° Mr. Stetson, are these 1979 costs the same as Dr. Q. 21 Mesghinna's? 22Excuse me --Yes. Α. 23 I'm sorry. Q. When you said the same as Dr. Mesghinna's, the unit costs 24 A. stetson - cross - white 25

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10-2 wouldn't be. They are both geared to 1979, but our unit 2 costs for a like size facility may not be the same. 3 I understand the year in which these costs are appropriate Q. is 1979. 4 5 Α. Yes. 6 I asked a poor question, I guess. Q. That's right. Α. I think, Mr. Stetson, we cut off some of the information Q. when we did our copying on the bottom of your graph. 9 If I could have the original back, I will try to make 10 those changes and annotations. 11

MR. WHITE: Could I write on this table?
THE SPECIAL MASTER: Certainly, sure.

MR. WHITE: Thank you.

THE SPECIAL MASTER: Dr. Stetson, if we find a discrepancy between the figures you gave in your direct testimony regarding the water and water requirements and those contained in the HSs as we have amended them through your cross-examination, which of those generally would you say ought to govern?

THE WITNESS: Like in the HS-3, 4 and 5 exhibits? THE SPECIAL MASTER: Right.

THE WITNESS: I believe HS-3, 4 and 5 exhibits, which are up here before me and marked for the Court, have the stetson - cross - white

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proper --

THE SPECIAL MASTER: The latest and proper information?

THE WITNESS: -- the latest and proper corrections on

them. I apologize for the fact we have done so many

corrections.

THE SPECIAL MASTER: No problem.

- Q. (By Mr. White) Mr. Stetson, now I will hand you what has been marked for identification as HS-15, as well as your notes, out of your notebook, and ask you whether or not HS-15 is an accurate copy of the materials contained in the notes with the attached costs?
- A. Yes, it appears to be.
- Q. Why don't you go ahead and stick your notes back in your notebook. On the first page of HS-15 you indicate you assumed a net irrigation requirement peak flow of five gallons per minute per acre; is that correct?
- A. Yes.
- Q. What is the basis for that assumption?
- A. That was the estimated requirement for irrigation of the types of crops for the net use on the fields, five gallons per minute. That is the consumptive use. That was our estimate of the consumptive use peak net. We used that to go ahead and derive what we ought to divert for them.
- Q. On the next line you show calculations for the gross stetson cross white

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irrigation peak flow, and then in the denominator you have .26. Where did that come from?

A. That was an assumed efficiency at the time these criteria were set up, assuming an overall efficiency of .26.

We subsequently considered, or I did, that we would achieve an efficiency of 35 percent, which we have used in our water requirements.

To that extent we have overstated the design criteria for the facilities. In other words, if we have used the 35 percent we would be using 20 gallons per minute per acre as a diversion requirement. And using the 26 percent, we derived 20 gallons per minute. If we used 35 percent, we would have derived 15 gallons per minute.

I considered that after all this work was done, and said, well, so we have --

- Q. We have done the work?
- A. we have done the work. It is a little too big. And to that extent, perhaps some of our costs are over estimated. But on the basis of this type of cost estimate, I think it is a reasonable cost and, if anything, it may be a little on the high side. So, we didn't bother to go back and change it and recopy it.
- Q. Where you have given these persons' names, next to the sources in this information, are those the people within that stetson cross white



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	~ 	1		particular office that gave you the information?
- 		2	A.	Yes, sir.
	-3	3	Q.	Do you know who gave you the information on turnouts
	3	4		from SCS? Did you rely on
	3	5	A.	That would have been George Morris, all the information
. T	3	6		we got from the SCS on costs. We may have talked to more
استنا	3	7		than one person up there, but it was George Norris from
المتع		8		whom we hasically got the information on their experience
	3	9		in the area.
عتر		10	Q.	Why did you use the different pumping assumption from
		11		inside and outside it?
المتعقم		12		THE SPECIAL MASTER: Inside what?
بعرب معتقد		13		MR. WHITE: The FIPs, Your Honor, the second page
عزنس		14		of HS-15.
مثن		15	A.	Because that's out of the FIPs, many of the areas we
حرّث ونعد		16		were concerned as to whether or not electric power would
دسم		17		be available. So, in many other areas we used diesel
		18		pumps, or diesel drive.
***		19	Q.	From the entires on pages contained in HS-12, how would
-		20		one determine the pipeline sizes described at the bottom
		21		of the page, the second page, in HS-15, which were used
مستغ		22		for the particular units we were examining in HS-12?
منعق		23	A.	Let me look at my own copy; it's easier to read. For
مسيخ		24		example, on Exhibit 2 it talks about 4,000 linear feet
, Jacob		25	ste	tson - cross - white
مشتعا	7		<u> </u>	Francian Donardina Consta

A TABLE



		!!		
5		1	Q	(By Mr. White) With respect to your land clearing costs,
ا کا		2		which I believe are on the 6th page of HS-15
	-3	3	A	Yes.
	3	4	Q	how did you determine which value per acre to use?
		5		I understand where you got the values from, but how did
	3	6		you decide which values
		7	A	By our observations in the field and comments that have
		8		been made on some on maps from HKM, if they made
ر درس		9		comments to that effect, but basically on our field ob-
		10		servations.
منت		11	Q	Did you personally made the field observations or was it
مثن		12		someone working under you?
متعن دند -		13	A	Mr. DiMaggio and myself were both out there for three
منعظ		14		days flying around in a helicopter, with a pilot, and a
ر ت		15		man from HKM.
ر ا		16	Q	And your land leveling costs which are based on land
ر دست		17		class
		18	A	Yes.
•		19	Q	also page 6 towards the middle?
5 "		20	A	Yes, sir.
ر دخم		21	Q	Which class did you use, sprinkler or gravity, or did it
T T		22		depend on the type or the method of water application?
نسئ		23	A	Well, we looked on the soil classification data sent
ص		24		to us by NKM, there were indications if it was a Class 1
ناس ا		25	stet	soni- cross - white
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		1	soil, that would be a soil in a field where the leveling
		2	would be from zero to 200 cubic yards per acre, so we
		3	took the average for Class 1, the same thing on Class 2 ,
لمنه	3	4	3, and 4.
المتا		5	Part of their criteria for that classification is
	•	6	how much leveling would be required how many cubic
سنس		7	yards of leveling would be required, so it's based on
تعرف	***	8	that.
م تم م تعد		9	The soil classes are shown on HS-12, so if it was
فنخم		10	shown as a Class 2 soil and there was indication it
عتم		11	needed leveling, we would use the 300 cubic yards per
نع	والم	12	acre.
ديم انتسا	W. 19	13	If it was a Class 3 or 4, we would use the 550.
نسخ		14	Q Would you look at page 1 of HS-12, please?
		15	A Page 1?
,	مدا	16	Q Yes, where it has a soil class of 4 slash 6?
	ود	17	A Yes, sir.
	ور ا	18	Q Does that mean 4 gravity, 16 2 sprinkler?
		19	A Yes, sir.
ر م	-	20	Q Now, is it true that you used in your land leveling costs
,	ود	21	the class for sprinkler if you intended to use a sprinkler
خ		22	on this tract and the class for gravity if you intended
•		23	to use gravity irrigation on the tract?
		24	A We used nearly always gravity. Usually for sprinkler we
		25	stetson - cross - white
	1 2		

didn't do any leveling. I would have to go back and check this, you know, page by page, but generally if we were using sprinkler, there may not have been any leveling involved. Were your costs per acre on land leveling provided by 5 Q SCS in Lander or from the Barnett Company in California? 6 Well, we had costs from several different sources, SCS Α in Lander, U. S. Bureau of Land Management in Billings; and the land leveling costs in California, which were a very 9 much higher stage of leveling. This is laser beam leveling, 10 which they use in the San Joaquin Valley to make the fields 11 look like pool tables, and from that we used the 60 cents per 12 cubic yard whereas the California price was --13 You meant \$60 --Q 14 I beg your pardon? Α 15 You used \$60 or 60 cents? Q 16 No, 60 cents per cubic yard applied to the number of A 17 yards per acre which gives you \$60 per acre if you have 18 a hundred cubic yards. 19 Your only costs which begin on the 7th page of HS-16, how 20 Q did you determine or arrive at the value of two percent 21 of investments, repairs and maintenance? 22 That was pretty much based on our judgment, that if you 23 allowed that much and conducted that -- spent that much 24 stetson - cross - white 25



on maintenance, that your headworks and turnouts would function through a reasonably long useful life. 2 Is the same thing true for your annual cost for your main 3 Q ditches? 4 Some of this we discussed with .Dan Crook at the BIA --5 Α at Fort Washakie, and made some assumptions that ditches, 6 for example, be replaced each three years, so you take your 25 cents per foot-cost of a ditch and call it 8 cents 8 per foot per year for repair and maintenance or replace-9 ment, and then for the larger ditches we applied the same 10 thing to the cost per cubic yard that we used in estimating 11 the cost of those ditches. Divide the 50 cents by 3 and 12 we came up with 17 cents per foot. 13 Q Where did the annual cost for your head ditches come from? 14 We made that cost estimate in-house based upon discussions A 15 with people like George Norris and Don Crook. 16 From what source did you obtain your repair and mainten-Q 17 ance values for the pumps that are shown on the 7th page 18 of HS-15? 19 We obtained those from reference material in our office. A 20 Do you recall what material that is? Q 21 No, I don't, and probably some of it from -- some of our Α 22 discussions with people either in or outside of the office 23 who have been involved in maintenance of pumps. 24 stetson - cross - white 25



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- We think it's a reasonable estimate. How did you arrive at the pumping hours shown at the top Q of the 8th page? That was generally by taking the growing season, water 4 requirements, number of hours that would be required to meet the application of water on those crop patterns, and 6 then going back and multiplying that by the cost per hour of pumping for the energy cost per hour for pumping. Did you provide any costs to Dornbusch aside from the Ũ 9 project costs that are shown in Exhibit HS-12 for on-10 farm costs, except for the pumping, the pipe networks 11 you discussed? 12 13
 - I can't say for sure. It's possible that -- there were A several people in Dornbusch's office that are in contact with people in my office on an almost daily basis, and somebody from Dornbusch's office may call down and say, "Would you verify this cost for me and would you tell me what kind of a cost we should use here?" And then we would -- my people would probably give them some information, but as far as supplying them any lists of costs as you mentioned, we have supplied them with HS-12 and we have probably -- we may have even supplied them with HS-15, if they had requested it. I just don't know, but other than that, as far as, you know, soil amendment

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1	costs and things for like that, I am sure we did not.
2	Q On page 5 of HS-12 is the additional 2.1 acres of land
3	in-use land that's included within your unadjudicated
4	totals on HS-5?
5	THE SPECIAL MASTER: First, Mr. White, lead me to
6	where you found the 2.1 acres of land on page 5, would you,
7	to HS-12?
8	(Whereupon Mr. White indicated (on document.
9	THE SPECIAL MASTER: There's 2.1 acres in land can
7 10 7 ,	share the costs, and now you want to ask what about that?
11	
12	MR. WHITE: I wanted to ask whether this was included
13	within his unadjudicated totals on HS-5, Your Honor.
14	THE SPECIAL MASTER: In other words, is the 2.1 acres
15	a part of the 179 acres or rather a part of the
16	MR. WHITE: The easiest thing to do is ask him what
17	it is, Your Honor. I was anticipating that it was part
18	of the unadjudicated lands, but so maybe I can just
19	ask him what it is.
20	A I believe it is part of the unadjudicated lands. It's
21	adjacent to one of these pieces (indicating), to one
22	of these 14, $4-x$, $5-x$, and $6-x$.
23	Q So part of the cost I'm sorry. I didn't mean to inter-
24	rupt you.
25	stetson - cross - white
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1	A I have to check that	against one of the maps.
2	All right. It	s adjacent to 14-5-X because we are
3	improving that whole	system through there to serve the
4	three parcels of Ty	e VII, and the other is adjacent to
5	it. It's getting be	enefit from the system, so we used it as
6	additional acreage	to share the cost.
7	Q Was that a common p	cactice in developing costs for the
8	Type VII lands, to	allocate some portion of their crops
9	to unadjudicated la	nds that were nearby?
10	A It was done in some	instances, in not very many, but it
11	was done in some in	stances.
12	Q Didn't you tell me	this morning that you had already
13	assumed that the un	adjudicated lands were receiving irri-
14	gation water and, t	herefore, you made no determination
15	of the ditches requ	ired and the points of diversion re-
16	quired to serve tho	se lands?
17	A That's right.	r
18	Q On the bottom of pa	ge 11
19	THE SPECIAL MA	STER: On HS-12?
20	MR. WHITE: Ye	s, sir. I'm still on 12.
21	Q (By Mr. White) Do	you find page 11?
22	A I found it in your	exhibit. I'm trying to find it in
23	mine.	
24	Q My copy	
25	stetson - cross - white	
	<u> </u>	

1	A I'll have it here in a minute.
2	Yeah, I have it.
3	My eyes just aren't as good as they used to be, and
4	I like to look at mine because I can read it a little
5	better.
6	Q At the bottom of page 11 does it indicate the cost of these fields
7	are shared with 600 acres of adjudicated lands?
8	A Yes, insofar as repair and maintenance cost is concerned.
9	Q Are these sharing of costs with adjacent lands, either
10	adjudicated or unadjudicated, the only instance where you
11	developed any costs associated with the adjudicated and
12	unadjudicated type lands that you have been discussing?
13	A That's right, and we haven't told them about it either.
14	But they are all trust lands.
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ن ا	1	Q.	Is there a parcel like 14-7X on page 20 of HS-12?
	2	A.	Page 20?
3	3	Q.	Page 20, yes.
3	4	A.	Yes, I'm on that page.
	5	Q.	Why would you determine if there were zero costs for
	6		headworks, turnouts, and things like that?
	7	A.	Because there is already an existing facility that can be
	8		used and we would simply extend the head that is off that
	9		facility.
	10	Q.	How did you make a determination in general whether or not
	11		drains would be required?
	12	A.	Drainage?
	13	Ω.	Whether drainage would be required on any given field?
	14	A.	We had some indications from Mr. Waples on the arable
	15		land classifications on twelve thousand and some odd acres.
	16		We found that generally those were inside the existing
	17		FIPs, where this was generally surrounded by other
	18		irrigation activity, and that is where drainage would be
	19		required. So, that is where we provide drainage.
	20	Q.	What was the tip off in the information Mr. Waples gave
	21		you? Did he give you a sheet saying this particular
	22		tract needed drainage?
	23		THE SPECIAL MASTER: I will not permit that, Mr. White.
	24		I don't want any more sheets in your cross-examination. I
	25	ste	tson - cross - white
<u> </u>			

believe your questions over the last hour have been far beyond what the law permits and allows in asking questions regarding the sufficiency of his competence or the accuracy of the work missed or anything else which you have a right to inquire into. I will not require this witness to produce another document in your crossexamination, Mr. White. And that is an order.

Furthermore, it is within fifteen minutes of the time to end cross-examination anyway.

MR. WHITE: Is Your Honor saying I have to finish cross-examination by noon?

THE SPECIAL MASTER: No, but I was trying to hold you to your -- not your assurance, your hope of yesterday or the day before you might get it done by then. That is why.

THE SPECIAL MASTER: You need an hour after lunch to wind it up, fine, but it's just I think you are on -in other words, I sense it from your questions -- the

I think I am within an hour of finishing.

I am within an hour or two of being done, MR. WHITE: Your Honor, yes.

THE SPECIAL MASTER: Do you want to take a break, since we have interrupted the testimony now, for lunch? stetson - cross - white

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tail end.

MR. WHITE:

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It is fifteen to twelve. I will do that and I will ask
you to use from 1:30 until 3:00 to wind up your crossexamination and gauge your own questions accordingly.

MR. WHITE: Can I finish this drainage question area

MR. WHITE: Can I finish this drainage question area while I'vergot my mind on it?

THE SPECIAL MASTER: I will let you. I marvel at the way you seem to get my cooperation on almost everything and I am unable to do that with you.

MR. WHITE: I am willing to stop, if you want.

THE SPECIAL MASTER: Go right ahead and finish the drainage matter.

- -Q. (By Mr. White) What was the information that you received from Mr. Waples which would indicate that there was a drainage problem on a particular parcel?
- A. It would be indications that some parcels had a high water table. He gave us depth to barrier and conductivity, hydrologic conductivity, on certain parcels, and there would be indications in some, for instance, of sodic soils due to a high water table, things like that.

We would look at those and then determine that, okay, these parcels should be provided with proper drainage. And then our people designed the adequate drainage to take care of that and put the costs in these calculations.

Q. Was that type of information contained on the aerial stetson - cross - white

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1 1	1	photographs provided you by Mr. Waples, or was it in some
L	2	other form?
1	3	A. It was contained on some blue line prints of maps.
1	4	Q. The same ones we were talking about this morning, what
	5	is HS-14, or was it some other?
3	6	A. No.
	7	Q. Are they in evidence, do you know?
3. §	8	A. I don't know.
	9	Q. Do you have them with you?
付 2 ・全	10	A. They are in this room.
	11	Q. May I look at them, please?
	12	THE SPECIAL MASTER: I would I will deny that.
	13	request.
	14	MR. WHITE: Under the rules, Your Honor, I am entitled
	15	to look at things.
	16	THE SPECIAL MASTER: You sure have and you have taken
	17	two days until now to look at them. Two full days of
2	18	cross-examination with a microscopic examination of
	19	every facet of the evidence we have had, I think, is
2	20	sufficient, Mr. White.
	21	And I will otherwise we could go on ad nauseum,
	22	ad nauseum, with cross-examination and adding to the
	23	repetitious and burdensome facet of these proceedings.
	24	MR. WHITE: I want to be clear. All I asking is
	25	stetson - cross - white

right now is to look at the information. THE SPECIAL MASTER: And all I am ordering right now is you don't get a chance to look at those Waples documents to which this witness has referred. He has told you how 4 he got this information and material and if you have a 5 question about his professional opinion on drainage, you 6 can prove it on your case. (By Mr. White) Mr. Stetson, did you rely on the 8 Q. information contained in those materials, those maps, 9 furnished by Mr. Waples in arriving at the professional 10 opinions and conclusions to which you have testified 11 during your direct examination? 12 THE SPECIAL MASTER: I will object to that. Whether 13 he relied on them is irrelevant because I have made my 14 ruling and you are not about to get it. 15 MR. WHITE: Your Honor, I think I am entitled 16 to make a record. 17 THE SPECIAL MASTER: You may be, and if you are, 18 then I have erred, but I have ruled. 19 MR. WHITE: Okay. This is a good time to take a 20 break. 21 THE SPECIAL MASTER: I'm glad you think it is. 22 We will be in recess until 1:30. 23 (The trial was recessed from 24 (11:50 a,m. until 1:30 p.m. 25 stetson - cross - white

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