UIdaho Law Digital Commons @ UIdaho Law

Bighorn

Hedden-Nicely

2-10-1981

Trial Transcript, Vol. 13, Afternoon Session

Frontier Reporting Service

Follow this and additional works at: https://digitalcommons.law.uidaho.edu/bighorn

Recommended Citation

Frontier Reporting Service, "Trial Transcript, Vol. 13, Afternoon Session" (1981). *Bighorn*. 172. https://digitalcommons.law.uidaho.edu/bighorn/172

This Transcript is brought to you for free and open access by the Hedden-Nicely at Digital Commons @ Uldaho Law. It has been accepted for inclusion in Bighorn by an authorized administrator of Digital Commons @ Uldaho Law. For more information, please contact annablaine@uidaho.edu.

File 120 4371 Bax 10 ğ 截 i î にあっ 4993 case # File 120 # Ŋ, 4371 16: ĥ

T. Steen and the second second . ė, ið, 3, 9; IN THE DISTRICT COURT FOR THE FIFTH JUDICIAL DISTRICT 1 ¢; 2 WASHAKIE COUNTY, STATE OF WYOMING e, 3 iC; ð 4 IN RE: 3 ١ Ø 5 THE GENERAL ADJUDICATION) 13 OF RIGHTS TO USE WATER S Civil No. 4993 6 IN THE BIG HORN RIVER) 2 SYSTEM AND ALL OTHER) × 7 SOURCES, STATE OF WYO-) FILED 19.81 MING. 2/25) 23 8 Margaul Hampton CLE. ×J 9 zđ _ DEPUTY 10 2 2 11 20 12 7 13 32 14 38 7 VOLUME 13 15 Afternoon Session 16 20 Tuesday, February 10, 1981 17 - 22 18 -19 94 20 --21 22 23 ORIGINAL 24 25 **PRONTIER REPORTING SERVICE** 409 WEST 241H STHEET CHEYENNE, WY B2001 (307) 635 8280 201 MIDWEST BUILDING CASPER, WY 82601 (307) 237-1493 T.

	10-1-LM-CR	
C		
61111111111111		1428
	1	THE SPECIAL MASTER: Are you ready,
	2	Sandy?
e se	3	MR. WHITE: I am, sir.
0	4	THE SPECIAL MASTER: Very well. Okay.
0	5	Let's come to order.
	6	Mr. White.
.	7	MR. WHITE: Thank you, Your Honor.
	8	CROSS-EXAMINATION (RESUMED)
	9	BY MR. WHITE:
	10	Ω Mr. Kersich, you may recall the cross-examination,
6 -	11	or do you recall the cross-examination yesterday
	12	in which we discussed your definition of arable
	13	lands as well as the classes of lands as compared
	14	with the Bureau of Reclamation, do you recall
	15	that general cross-examination?
	16	A Yes, I do.
	17	Q I would like you now to turn to the formulation
	18	of your land classification standards, are
	19	those the standards which are in the United States
	20	Exhibit C-36?
	21	A Yes.
	22	Q Did you formulate those standards in conformity
.	23	with the practice of the Bureau of Reclamation?
	24	A Reasonably close, yes.
	25	kersich-cross-white
et et e		ADD STATE AND ADD STATES AND ADD STA
		CHERTES 4280 CHERTES 4280 CASPER WEB207 CASPER W

ł.

b

Ŷ

9			1429
\$	0 1		Would you take Exhibit SK-5, the portion of the
•	2		Bureau of Reclamation manual
	3	A	Just a minute, please.
•	4	Q	Okay.
9	5	A	Okay.
5	6	Q	And turn to page 115.3.1.C.
9	7	A	Okay.
)	8	Q	Do you want to hold on just a minute?
9	9		At the bottom paragraph capital A general
, ,	10		and it carries over to the next page.
9	11	A	Uh-huh.
9	12	Q	Have you found that?
	13	A	Yes, sir.
	14	Q	Would you please read that?
5	15	A	"General. The land classification defining
	16		the arable area shall be based upon integrating
5	17		land, agronomic, environmental, social economic
5	18		relationships, primarily for characterization
5	19		of the lands and for economic purposes. Although
7 · 5 .	20		the distinction between land classes will be
	21		on physical features, the mapping specifications
•	22		which express these differences will be developed
9	23		on the basis of economic factors. The final
9	24		irrigable area will be affected by additional
5	25	kei	rsich-cross-white

1430 economic, environmental, social and engineering 1 considerations involved in project formulation." 2 So when you got to the irrigable determinations Q 3 there are additional factors to be considered, 4 is that correct? 5 A That's correct. 6 In terms of the mapping specifications, those Q 7 according to the Bureau are included -- or 8 include economic factors? 9 There are economic considerations included, yes. Α 10 What economic factors did you consider in the Q 11 development of your standards? Perhaps we 12 just could start -- well if you want to tell 13 me what economic factors you considered, go ahead. 14 I think that's a good question and I would like А 15 to tell you, really. 16 Sure. Q 17 Because I think it is something we've got to A 18 clear up at this point in time. 19 For example --20 يعني Go ahead. Q -21 Surface -- I'm sorry, did you say something? -A 22 0 I said to go ahead. I was just grabbing my paper, Q 23 6-6 For example, there are some inherent productivity А -24 kersich-cross-white er: 25 FRONTIER REPORTING SERVICE 409 WEST 24TH STREET 201 SIDWEST BULDING CASPER, NY 82601 (307) 237-1493 LHEVENAL, WE B2001 13071 635-8280 1

and economic factors in any set of land specifications. And if you will look on -under soil, there is a difference of soil depth for each of the three or four classes -excuse me, four classes. Primarily it's been realized by people in the industry that if you have a deeper soil of better quality that you're going to have more productivity with less production costs or, at least, least production Therefore there has been a distinction costs. made between the amount of topsoil and the soil depth, the profile depth. I'm talking now in particular of the 48 inches that we really are concerned about in the potential root cell in each of these classifications.

1431

The same thing has to do there. There is an economic factor not directly but inherently in moisture retention. If you have a soil that is -- can retain more moisture within reason and where the plants can take the moisture out of it, you will have a less frequent irrigation cycle required which will reduce your irrigation labor and it will reduce your costs if you happen to be sprinkling for example, you would have less

kersich-cross-white

1

2

3

4

5

6

7

8

9

10

11

12

13

14

15

16

17

18

19

20

21

22

23

24

25

enti

C

te e statut u statut na Et angestatut u statut na erena statut u statu FRONTIER REPORTING SERVICE

201 NOABLE CASER ATE power costs, for example, things of this nature. Alkalinity and salinity, the least -- the less of these salts and sodiums that you have that might affect you in plant growth, the better off you are. There is a distinction about the allowable amount in each of the three classes, for -- four classes, excuse me. Surface gravel and cobble -- I'm on page 2 now. Class 1, for example, says relatively free. Again, remember that we are considering the top 12 inches. We talked about surface gravel and cobble. Class 2 is moderately free but affecting tilt in some management. And so on it goes. Each one has a little higher deficiency. Topography and gravity, it is zero to two percent for Class 1. Basically that means you're going to have very little leveling, you're going to be allowed little longer runs on some of the laterals on your field systems. Again there is some inherent economic involved.

1

2

3

4

5

6

7

8

9

10

11

12

13

14

15

16

17

18

19

20

21

22

23

24

25

تلزي

Surface leveling and graveling is not a critical feature with sprinklers on mechanical move systems, especially. Then field size, we tried to break out for mechanical moves on kersich-cross-white

PRONTIER REPORTING SERVICE

V DWEST

sprinklers that for side rolls we looked at a minimum of 40 acres although someone may put a hand move or some other type of system in there. For side roll it looks like about a 40 acre minimum was the most practicable or was the least that you would go to. A hundred acres minimum size for center pivot.That would be 1,000 to 1,100 feet centers. Just about the standard 130 acre size you'd get on a section.

1

2

3

4

5

6

7

8

9

10

11

12

13

14

15

16

17

18

19

20

21

22

23

24

25

Cover, in this particular instance was not a big factor simply because cover -- there just isn't any cover in any area we're talking about. We've got some sagebrush and grass and things of that nature. Then, finally, drainage. For any surface drainage problems, they are to be listed, if there weren't, that's fine.

With regard to drainage as I spoke yesterday, we were looking at the three factors of drain spacing, hydraulic conductivity and soil depth to barrier.

Now, as I said, for our investigation with the Bureau of Reclamation, they feel that in Montana, Wyoming, these areas that you can't space drains closer than 200 feet and develop -kersich-cross-white

CENER I

4447 948 31 2410 37000 CHEFERAL WAY 8280 13921 635 6280 PRONTIER REPORTING SERVICE

201 MIDWEST BUILDING CASPER, WY 82591 (307) 237 1493

1433

٠) .

	y		
	<u> </u>		
	•		1434
6-1	2 1		and not suffer an economic hardship. California,
67	2		they said it's been their experience they can
	÷ 3		go down to 100 feet so those were some of the
	₩ 4		factors that were put into develop productivity
-	9 5		and economic viability.
T		Q	Did you have an economist up on your team that
	v 7		helped you develop these standards?
-	€ 8	A	No, sir.
	49 Maria - 9	Q '	How did you determine in the words of the Bureau
	سے 10		then with respect to Class 1 that the standards
	9 11		you used assured "the highest level of suitability
0	ອ 		for continuous successful irrigation farming
	ع بو ا		measured in terms of the net income generated"?
•	y 14	A	Well, I guess we'd better talk about this whole
9-	9 15		program again because it is obvious people are
	9 16		not understanding it. So if I might, just for
9	- - 17		a second
-	• 18	Q	Go ahead.
5	9 19	A	Good. It also says somewhere in the Bureau that
J	a 20		you first have to segregate the lands to give
5	9 21	1	someone a base to work on. I think that's been
•	5 22	1 4 1	pretty well accomplished.
Ĵ	a 23	Ω	Where does it say that?
1	2 24	A	I can't remember right now but you've got to
0	3 25	kers	ich-cross-white
1	.		PRONTIER REPORTING SERVICE
			10% 237 1431

J

ļ

segregate the lands so the economist can begin to do his study. The economist can't go out and give you the answers before you have looked at the lands and just from a practical experience standpoint, you've got to give them something to work on.

1

2

3

4

5

6

7

8

9

10

11

12

13

14

15

16

17

18

19

20

21

22

23

24

25

1435

Now, from what my experience with the Bureau indicated was that we -- and I keep saying Bureau, I'm beginning to wonder here why are we referring to the Bureau here because we are not doing a Bureau study. Nevertheless, let's talk about it for a moment. The particular lands that we are talking about here, these lands that we've got grouped in various classes according to chemical and physical deficiencies, if any, are being further reviewed in depth by an economist and by an agricultural engineer and in many respects they are undergoing quite a strenuous test here because the agricultural engineer is designing site specific systems to service those and developing costs on a site specific system.

Q Now, Mr. Kersich, aren't those the additional economic and engineering works that lead up to kersich-cross-white

FRONTIER REPORTING SERVICE

201 MOALL

11 C			
	·····-		
		1436	
			alks
*			
	A		and
-			
3			
4) 			
· · · ·			
4	Q	The Bureau does that.	
ມສູ່ 	A	I think we are getting afield here. It doe	esn't
سع 12			
وم 13			
1 4			
15			
16 La			
ليس 17			
18			
19 19			
4 20		* * * * *	
t , 21			
e 22			
e 23			
S 24			
25	ker	sich-cross-white	
8		ADD WEST 24TH STHEET FRONTIER REPORTING SERVICE CHEEKE, WY 82001 -3071 635 6280	201 MIDWEST BUILDING CASPER, WY 82601 LIO71 237-1403
	10 11 12 13 14 15 16 16 17 16 17 18 19 20 19 20 19 20 21 21 22 23 24	2 3 4 3 4 5 5 6 7 8 0 7 8 0 7 8 0 7 8 0 7 8 0 7 8 0 7 8 0 7 8 0 7 8 0 7 8 0 7 10 11 12 13 14 15 16 17 16 17 16 17 18 19 16 17 18 19 16 17 18 19 12 13 14 15 16 17 18 19 12 13 14 15 16 17 18 19 12 13 14 15 16 17 18 19 20 11 12 13 14 15 16 17 18 19 20 11 12 13 14 15 16 17 18 19 20 11 12 13 14 15 16 17 18 19 20 17 18 19 20 11 12 13 14 15 16 17 18 19 20 11 12 12 13 14 15 16 17 18 19 20 12 13 14 15 16 17 18 19 20 12 13 14 15 16 17 18 19 20 12 13 14 15 16 17 18 19 20 17 18 19 20 11 19 20 11 19 20 11 19 21 22 23 24	about in the language that you read? 3 A Well, how can you apply costs of production costs and returns and assign these figures you don't know what it costs you to pay for water, if you don't know what it costs you for the services putting the systems on the 8 0 The Bureau does that. 9 A 10 I 11 I 12 I 13 I 14 I 15 I 16 I 17 I 18 I 19 ****** 20 ****** 21 I 22 I 23 I 24 Kersich-cross-white

	· · · ·			a starting
11-1	MR-cb	···· , =	1437	
	MR-CD			
	1	Q (By Mr. White) (Continued) The Bureau does, that,	
	2	đ	on't they doesn't it, rather?	
	3	A C	h, I think we're doing it too. I'm having	
	4	t	rouble understanding the differentiation because	
	5	• V	ve're doing the same thing here.	
	6	QJ	'm understanding having difficulty under-	
	7	5	standing how you feel that your system or your	
	8	I	procedures are the same or identical or similar	
	9	ł	to the Bureau's when it doesn't meet the standards	
	10	£	set out in the Bureau manual. Are you saying this	
ومتهلم	11	:	is not a Bureau	
eee -	12		MR. SACHSE: I Object.	
ومعلز	13		THE SPECIAL MASTER: I will sustain the	
Ĺ	14	(objection.	
	15		MR. SACHSE: It's not what the	
	16		THE SPECIAL MASTER: I'll sustain the	
	17		objection.	
	18	Q	(By Mr. White) Let's delve into that. Did you	
	19		use the Bureau procedure or not?	
	20	A	For some things we did, like testing the lands,	
L	21		things of this nature, yes.	
	22	Q	But you didn't use the procedures that we've gone	
	23		through in SK-4 and 5, did you?	
Ĺ	24	A	Now	
	25	kersi	ch -cross-white	
			409 WEST 24TH STREET FRONTIER REPORTING SERVICE 201 MIDWEST 600 CHEVENNE, WY 82001 CASPER, WY 820 13071 035 8280 (3071 237-149	DihG
		ļ	(307) 635 8260 CASPER, WY 626 (307) 237-149	3 .

11-2

1

2

3

4

5

6

7

8

9

10

11

12

13

14

15

16

17

18

19

20

21

22

23

24

25

THE SPECIAL MASTER: I would like to take My Own objection to that because he just read from SK-5, as an economic and physical factor that the land classification defining an arable shall be based upon integrating various factors, one being the economic relationship. He then went to great extent to tell what economic factors he cranked into the arability matter, so he has answered that. He does indeed use the criteria that you specified and had him read from in SK-5, Mr. White.

Q (By Mr. White) Mr. Kersich, then let's go to the next question I asked after you gave that answer, what you didn't answer, and that is how did you determine in the economic analysis that you went through for the standards, that these standards for Class 1 would, in the words of the Bureau, insure the "Highest level of suitability for continuous successful irrigation farming, measured in terms of net income generated"? THE SPECIAL MASTER: Good question. THE WITNESS: But the way we define Class 1 was not the Bureau's definition of Class 1.

Q (By Mr. White) Okay.

kersich-cross-white

404 6651 2410

CREATINE WY 82001

THE SPECIAL MASTER: That's what he wants to

FRONTIER REPORTING SERVICE

201 MIDWEST BUILDING CASPEN WY 82601 (307) 237 1423

7.1.4		• ; • · ·	
5	11-3	1439	
G			
5	1	hear.	
5	2	Q (By Mr. White) That's what I wanted to know.	
8-1	3	A Okay.	
S	4	Q So your classification definitions weren't the	
Contraction of the second	5	Bureau's classification definition?	
	6	A That's correct.	
	7	Q The same thing true of arable land; is that	
	8	correct?	
T	9	A Yes, I believe I testified to that yesterday.	
	10	Q I'm not sure we got	
وسنجو	11	A We defined arable land as land which is capable	
entropy	12	of sustaining irrigation, and that's why we put	
	13	the definition in our report so that people would	
and and	14	understand what was meant by the way the term	
ales.	15	was used, here. We understood at that time that	
2	16	that land base was to go, further studies which	
	17	were economic and engineering in nature, and	
3-1-1	18	which may result in narrowing then of that land	
3-1	19	base, and for example, in this study I think that's	
	20	the way it's going to prove out. I suspect, I	
	21	can't give you the final answer at this time	
وسيلين	22	because that's not my domain, but I suspect that	
	23	of the 85,000 acres roughly that we are talking	
	24	about, arable, that the final claim will be based on	
	25	kersich-cross-white	
		40.1 WEST 2414 STREET FRONTIER REPORTING SERVICE 201 MDWEST 80.4D-40 CHEFENRE WY 82001 CASEER WY 82001 CASEER WY 82001 CASEER WY 82001	 ;

Í

 $\overline{}$

3

~

201 M DWEST BUILD NG CASFER, WY 82601 13971 237-1493

۴,

h

	11-4		1440
	1		something maybe 60 or 70 percent of that.
	2		I can't
T	3	Q	But your definition of arable land was different
	4		than that of the Bureau?
		A	Right.
سليم	5		
	6	Q	Now, let's go back to the question again. What
	7		did you do to determine that your standards for
	8		Class 1, in the words of the Bureau: To insure
	9		the highest level of suitability for continuous
سينهم	10		and successful irrigation farming, measured in
وسيلك	11		terms of net income generated, or did you? If you
وسيساح	12		didn't, just tell me you didn't do it.
سلم	13	А	That's what I'm trying to tell you.
ساليه	14	Q	You didn't do it, okay.
معلته	15	A	That the physical characteristics of the soil
	16		had been put together, they've been given to
	17		an economist, they've been given to the Ag
- June	18		engineer to determine the total cost of production
-	19		from our classification. The economist and the
	20		engineer realized what deficiencies, if any,
L	21		may be there and in many instances under Class 1
	 22		there may be no deficiencies, no reportable
وسيتن			deficiencies.
e- -3	23	Q	So it's true then you made no determination with
	24		ich-cross-white
L	25		
			409 WEST 2418 STREET FRONTIER REPORTING SERVICE 201 MDWEST BLADAG CHERTALE WE B2001 (1071-635 8280) (3071-237 1393)

(307) 237 1493

6	1999 - 1999 - 1999 - 1999 - 1999 - 1999 - 1999 - 1999 - 1999 - 1999 - 1999 - 1999 - 1999 - 1999 - 1999 - 1999 -	2 - 2 8 A -	
65	11-5		1441
	<u> </u>	1	respect to net income as associated with your
0-		2	land classification standards?
		3 A	We personally I personally did not. Other team
		4	members are.
		5 Q	Now, the other team members, are those within
		6	the team that helped you develop this arable
		7	land base or are they persons of other firms that
		8	were not involved in that arable land base
		9	determination?
	1	0 A	I'm referring to Tom Stetson, who is the Ag
	1	.1	engineer on the team, and Mr. Dornbusch, who is
	1	2	the economist for the team.
	1	.3 Q	They were not part of your arable land base team;
	1	4	is that correct?
	1	5 A	Other than receiving our input, no.
	1	6	
	1	.7	
	END 11 1	8	
	1	.9	
وسيتحق	2	0	
5	2	1	
	2	2	
	2	3	
	2	:4	
	2	:5	
			409 WEST 24TH STHELT CHEYTNAL, WY 87001 (307) 635 8780 (307) 635 8780 (307) 635 8780 (307) 237-1493

12-1V-e144210(By Mr. White) Would you turn to C-36, please, your standards?3AOkay.40What were the facts and data upon which you based the soil texture standards for Class 1 for well, Class 1, period?7AThe texture was a review of the local area, what we thought in our minds from our understanding of irrigation would be acceptable for farming and for water management practices and, finally, in all of these various areas, we compared these with specifications which had been previously developed by the Bureau of Reclamation within this general area.150Specifically what Bureau of Reclamation specificati did you use?17A. I don't recall all the standards. I'll try to give you the three or four off the top of my head that I know.19that I know.20I think we had the standards from the 1947-48 study. We had the standards from that study in the early sixties.23I know that we had the Muddy Ridge standards, and there might have been two or three others that kersich - cross - white			
 your standards? A Okay. What were the facts and data upon which you based the soil texture standards for Class 1 for well, Class 1, period? The texture was a review of the local area, what we thought in our minds from our understanding of irrigation would be acceptable for farming and for water management practices and, finally, in all of these various areas, we compared these. with specifications which had been previously developed by the Bureau of Reclamation within this general area. Specifically what Bureau of Reclamation specificati did you use? I don't recall all the standards. I'll try to give you the three or four off the top of my head that I know. I think we had the standards from the 1947-48 study. We had the standards from that study in the early sixties. I know that we had the Muddy Ridge standards, and there might have been two or three others that 	= 12-1 V-e	•	1442
 3 A. Okay. 4 Q. What were the facts and data upon which you based the soil texture standards for Class 1 for well, Class 1, period? 7 A. The texture was a review of the local area, what we thought in our minds from our understanding of irrigation would be acceptable for farming and for water management practices and, finally, in all of these various areas, we compared these. 10 for water management practices and, finally, in all of these various areas, we compared these. 11 with specifications which had been previously developed by the Bureau of Reclamation within this general area. 13 developed by the Bureau of Reclamation specificati did you use? 14 don't recall all the standards. I'll try to give you the three or four off the top of my head that I know. 20 I think we had the standards from the 1947-48 study. We had the standards from that study in the early sixties. 14 know that we had the Muddy Ridge standards, and there might have been two or three others that 	3	1	Q. (By Mr. White) Would you turn to C-36, please,
 4 Q What were the facts and data upon which you based the soil texture standards for Class 1 for 6 well, Class 1, period? 7 h. The texture was a review of the local area, what we thought in our minds from our understanding of irrigation would be acceptable for farming and for water management practices and, finally, in all of these various areas, we compared these. 12 with specifications which had been previously developed by the Bureau of Reclamation within this general area. 13 Specifically what Bureau of Reclamation specificati did you use? h. I don't recall all the standards. I'll try to give you the three or four off the top of my head that I know. 14 I think we had the standards from the 1947-48 study. We had the standards from that study in the early sixties. 14 I know that we had the Muddy Ridge standards, and there might have been two or three others that 	•	2	your standards?
 the soil texture standards for Class 1 for well, Class 1, period? The texture was a review of the local area, what we thought in our minds from our understanding of irrigation would be acceptable for farming and for water management practices and, finally, in all of these various areas, we compared these with specifications which had been previously developed by the Bureau of Reclamation within this general area. Specifically what Bureau of Reclamation specificati did you use? I don't recall all the standards. I'll try to give you the three or four off the top of my head that I know. I think we had the standards from the 1947-48 study. We had the standards from that study in the early sixties. I know that we had the Muddy Ridge standards, and there might have been two or three others that 	9	3	A. Okay.
 6 well, Class 1, period? 7 h. The texture was a review of the local area, what 8 we thought in our minds from our understanding of 9 irrigation would be acceptable for farming and 10 for water management practices and, finally, in 11 all of these various areas, we compared these 12 with specifications which had been previously 13 developed by the Bureau of Reclamation within this 14 general area. 15 0. Specifically what Bureau of Reclamation specificati 16 did you use? h. I don't recall all the standards. I'll try to 18 give you the three or four off the top of my head 19 that I know. 20 I think we had the standards from the 1947-48 21 study. We had the standards from that study in the 22 early sixties. 23 I know that we had the Muddy Ridge standards, 24 and there might have been two or three others that 	3	4	Q What were the facts and data upon which you based
 7 A. The texture was a review of the local area, what we thought in our minds from our understanding of irrigation would be acceptable for farming and for water management practices and, finally, in all of these various areas, we compared these with specifications which had been previously developed by the Bureau of Reclamation within this general area. Specifically what Bureau of Reclamation specificati did you use? A. I don't recall all the standards. I'll try to give you the three or four off the top of my head that I know. I think we had the standards from the 1947-48 study. We had the standards from that study in the early sixties. I know that we had the Muddy Ridge standards, and there might have been two or three others that 	•	5	the soil texture standards for Class 1 for
 we thought in our minds from our understanding of irrigation would be acceptable for farming and for water management practices and, finally, in all of these various areas, we compared these with specifications which had been previously developed by the Bureau of Reclamation within this general area. Specifically what Bureau of Reclamation specificati did you use? I don't recall all the standards. I'll try to give you the three or four off the top of my head that I know. I think we had the standards from the 1947-48 study. We had the standards from that study in the early sixties. I know that we had the Muddy Ridge standards, and there might have been two or three others that 	•	6	well, Class 1, period?
 9 irrigation would be acceptable for farming and 10 for water management practices and, finally, in 11 all of these various areas, we compared these 12 with specifications which had been previously 13 developed by the Bureau of Reclamation within this 14 general area. 15 © Specifically what Bureau of Reclamation specificati 16 did you use? 17 Å I don't recall all the standards. I'll try to 18 give you the three or four off the top of my head 19 that I know. 20 I think we had the standards from the 1947-48 21 study. We had the standards from that study in the 22 early sixties. 23 I know that we had the Muddy Ridge standards, 24 and there might have been two or three others that 	\$	7	A. The texture was a review of the local area, what
10for water management practices and, finally, in11all of these various areas, we compared these12with specifications which had been previously13developed by the Bureau of Reclamation within this14general area.150.16did you use?17A.18give you the three or four off the top of my head19that I know.20I think we had the standards from the 1947-4821study. We had the standards from that study in the22early sixties.23I know that we had the Muddy Ridge standards,24and there might have been two or three others that	9	8	we thought in our minds from our understanding of
11all of these various areas, we compared these12with specifications which had been previously13developed by the Bureau of Reclamation within this14general area.150.16did you use?17A.18give you the three or four off the top of my head19that I know.20I think we had the standards from the 1947-4821study. We had the standards from that study in the22early sixties.23I know that we had the Muddy Ridge standards,24and there might have been two or three others that		9	irrigation would be acceptable for farming and
12with specifications which had been previously13developed by the Bureau of Reclamation within this14general area.150.16did you use?17A. I don't recall all the standards. I'll try to18give you the three or four off the top of my head19that I know.20I think we had the standards from the 1947-4821study. We had the standards from that study in the22I know that we had the Muddy Ridge standards,23I know that we had the Muddy Ridge standards,24and there might have been two or three others that	,	10	for water management practices and, finally, in
13developed by the Bureau of Reclamation within this14general area.150.16did you use?16did you use?17A.18give you the three or four off the top of my head19that I know.20I think we had the standards from the 1947-4821study. We had the standards from that study in the22early sixties.23I know that we had the Muddy Ridge standards,24and there might have been two or three others that	•	11	all of these various areas, we compared these
14general area.150.16did you use?16did you use?17A.18give you the three or four off the top of my head19that I know.20I think we had the standards from the 1947-4821study. We had the standards from that study in the22early sixties.23I know that we had the Muddy Ridge standards,24and there might have been two or three others that	5	12	with specifications which had been previously
 15 0. Specifically what Bureau of Reclamation specification did you use? 16 did you use? 17 A. I don't recall all the standards. I'll try to give you the three or four off the top of my head that I know. 19 that I know. 20 I think we had the standards from the 1947-48 study. We had the standards from that study in the early sixties. 21 I know that we had the Muddy Ridge standards, and there might have been two or three others that it is the standard of the standard of	•	13	developed by the Bureau of Reclamation within this
16did you use?17A.I don't recall all the standards. I'll try to18give you the three or four off the top of my head19that I know.20I think we had the standards from the 1947-4821study. We had the standards from that study in the22early sixties.23I know that we had the Muddy Ridge standards,24and there might have been two or three others that	9 9	14	general area.
16did you use?17A.I don't recall all the standards. I'll try to18give you the three or four off the top of my head19that I know.20I think we had the standards from the 1947-4821study. We had the standards from that study in the22early sixties.23I know that we had the Muddy Ridge standards,24and there might have been two or three others that	,	15	Q Specifically what Bureau of Reclamation specificatio
17A.I don't recall all the standards. I'll try to18give you the three or four off the top of my head19that I know.20I think we had the standards from the 1947-4821study. We had the standards from that study in the22early sixties.23I know that we had the Muddy Ridge standards,24and there might have been two or three others that	•	16	
18give you the three or four off the top of my head19that I know.20I think we had the standards from the 1947-4821study. We had the standards from that study in the22early sixties.23I know that we had the Muddy Ridge standards,24and there might have been two or three others that	9		
19that I know.20I think we had the standards from the 1947-4821study. We had the standards from that study in the22early sixties.23I know that we had the Muddy Ridge standards,24and there might have been two or three others that	,		give you the three or four off the top of my head
I think we had the standards from the 1947-48 study. We had the standards from that study in the early sixties. I know that we had the Muddy Ridge standards, and there might have been two or three others that	9		that I know.
21 study. We had the standards from that study in the 22 early sixties. 23 I know that we had the Muddy Ridge standards, 24 and there might have been two or three others that	•		I think we had the standards from the 1947-48
 early sixties. I know that we had the Muddy Ridge standards, and there might have been two or three others that 	, 	21	study. We had the standards from that study in the
I know that we had the Muddy Ridge standards, and there might have been two or three others that	1	22	early sixties.
and there might have been two or three others that	•		I know that we had the Muddy Ridge standards,
	2		
40.2 WEST 24TH STHEET FRONTIER REPORTING SERVICE		£.J	

ļ

Ê

Y,

12-214431were involved in there.2I believe there was a reclassification of3the Cottonwood Bench area. I'd have to look into4that, but I do know that we had several sets of5standards that had been put together by the Bureau.6D Did all of those standards have the same soil7texture for Class 1 that appears on8A I don't recall. I'd have to go back and look at9it now. It's been quite some time since I looked10at them all, but they are close to these.11Q You don't know whether or not they are the same?12A. Not without going back and checking the standards13specifically.14O Soil texture in Class 2?15A. The answer would be the same for that also.16Your texture standard is loamy sand to clay loam17and silt loam?18A. Yes.19Were you aware of any areas which have, say,20a loamy sandy surface texture and where erosion21No, I'm not aware where loamy sand textures were22found on the surface in any large areas. We did23have some loamy sand in the subsurface profile;24kersich - cross - which	a la	· · · · · · · · · · · · · · · · · · ·	and the second		
 Vere involved in there. I believe there was a reclassification of the Cottonwood Bench area. I'd have to look into that, but I do know that we had several sets of standards that had been put together by the Bureau. Did all of those standards have the same soil texture for Class 1 that appears on A I don't recall. I'd have to go back and look at it now. It's been quite some time since I looked at them all, but they are close to these. You don't know whether or not they are the same? Not without going back and checking the standards specifically. Soil texture in Class 2? The answer would be the same for that also. Your texture standard is loamy sand to clay loam and silt loam? Yes. Were you aware of any areas which have, say, a loamy sandy surface texture and where erosion is a problem? No, I'm not aware where loamy sand textures were found on the surface in any large areas. We did have some loamy sand in the subsurface profile. kersich - cross - which 	C.	12-2		1443	
 Vere involved in there. I believe there was a reclassification of the Cottonwood Bench area. I'd have to look into that, but I do know that we had several sets of standards that had been put together by the Bureau. Did all of those standards have the same soil texture for Class 1 that appears on I don't recall. I'd have to go back and look at it now. It's been quite some time since I looked at them all, but they are close to these. You don't know whether or not they are the same? Not without going back and checking the standards specifically. Soil texture in Class 2? The answer would be the same for that also. Your texture standard is loamy sand to clay loam and silt loam? Yes. Were you aware of any areas which have, say, a loamy sandy surface texture and where erosion is a problem? No, I'm not aware where loamy sand textures were found on the surface in any large areas. We did have some loamy sand in the subsurface profile: kersich - cross - which 	6	1			-
 1 billious there was a reclassification of the Cottonwood Bench area. I'd have to look into that, but I do know that we had several sets of standards that had been put together by the Bureau. Did all of those standards have the same soil texture for Class 1 that appears on I don't recall. I'd have to go back and look at it now. It's been quite some time since I looked at them all, but they are close to these. You don't know whether or not they are the same? Not without going back and checking the standards specifically. Soil texture in Class 2? The answer would be the same for that also. Your texture standard is loamy sand to clay loam and silt loam? Yes. Were you aware of any areas which have, say, a loamy sandy surface texture and where erosion is a problem? No, I'm not aware where loamy sand textures were found on the surface in any large areas. We did have some loamy sand in the subsurface profile. 	G. F.				
 the cortonwood Bench area. I d have to four and that, but I do know that we had several sets of standards that had been put together by the Bureau. Did all of those standards have the same soil texture for Class 1 that appears on I don't recall. I'd have to go back and look at it now. It's been quite some time since I looked at them all, but they are close to these. You don't know whether or not they are the same? Not without going back and checking the standards specifically. Soil texture in Class 2? The answer would be the same for that also. Your texture standard is loamy sand to clay loam and silt loam? Yes. Were you aware of any areas which have, say, a loamy sandy surface texture and where erosion is a problem? No, I'm not aware where loamy sand textures were found on the surface in any large areas. We did have some loamy sand in the subsurface profile: kersich - cross - which 	S.		I believe there was	a reclassification of	
 bill, bill 1 db XHOW that we had meeter and of standards that had been put together by the Bureau. Did all of those standards have the same soil texture for Class 1 that appears on I don't recall. I'd have to go back and look at it now. It's been quite some time since I looked at them all, but they are close to these. You don't know whether or not they are the same? Not without going back and checking the standards specifically. Soil texture in Class 2? The answer would be the same for that also. Your texture standard is loamy sand to clay loam and silt loam? Yes. Were you aware of any areas which have, say, a loamy sandy surface texture and where erosion is a problem? No, I'm not aware where loamy sand textures were found on the surface in any large areas. We did have some loamy sand in the subsurface profile: kersich - cross - which 	9.	3	the Cottonwood Bench area	. I'd have to look into	
 6 Did all of those standards have the same soil texture for Class 1 that appears on 8 I don't recall. I'd have to go back and look at it now. It's been quite some time since I looked at them all, but they are close to these. 11 Q. You don't know whether or not they are the same? 12 Not without going back and checking the standards specifically. 14 Q. Soil texture in Class 2? 15 A. The answer would be the same for that also. 16 Q. Your texture standard is loamy sand to clay loam and silt loam? 18 A. Yes. 19 Q. Were you aware of any areas which have, say, a loamy sandy surface texture and where erosion is a problem? 20 A. No, I'm not aware where loamy sand textures were found on the surface in any large areas. We did have some loamy sand in the subsurface profile; kersich - cross - which 		4	that, but I do know that	we had several sets of	
 For the of the standards have the same form texture for Class 1 that appears on A I don't recall. I'd have to go back and look at it now. It's been quite some time since I looked at them all, but they are close to these. You don't know whether or not they are the same? A Not without going back and checking the standards specifically. Soil texture in Class 2? A The answer would be the same for that also. Your texture standard is loamy sand to clay loam and silt loam? Yes. Were you aware of any areas which have, say, a loamy sandy surface texture and where erosion is a problem? No, I'm not aware where loamy sand textures were found on the surface in any large areas. We did have some loamy sand in the subsurface profile; kersich - cross - which 		5	standards that had been p	out together by the Bureau.	
 a I don't recall. I'd have to go back and look at it now. It's been quite some time since I looked at them all, but they are close to these. you don't know whether or not they are the same? Not without going back and checking the standards specifically. Soil texture in Class 2? A The answer would be the same for that also. Your texture standard is loamy sand to clay loam and silt loam? Nes. Were you aware of any areas which have, say, a loamy sandy surface texture and where erosion is a problem? No, I'm not aware where loamy sand textures were found on the surface in any large areas. We did have some loamy sand in the subsurface profile; kersich - cross - which 		6	0 Did all of those standard	is have the same soil	
 9 it now. It's been quite some time since I looked at them all, but they are close to these. 10 You don't know whether or not they are the same? 12 A. Not without going back and checking the standards specifically. 14 Q. Soil texture in Class 2? 15 A. The answer would be the same for that also. 16 Q. Your texture standard is loamy sand to clay loam and silt loam? 18 A. Yes. 19 Q. Were you aware of any areas which have, say, a loamy sandy surface texture and where erosion is a problem? 21 No, I'm not aware where loamy sand textures were found on the surface in any large areas. We did have some loamy sand in the subsurface profile; kersich - cross - which 	and the	7	texture for Class 1 that	appears on -~	
 10 at them all, but they are close to these. 11 Q. You don't know whether or not they are the same? 12 A. Not without going back and checking the standards 13 specifically. 14 Q. Soil texture in Class 2? 15 A. The answer would be the same for that also. 16 Q. Your texture standard is loamy sand to clay loam 17 and silt loam? 18 A. Yes. 19 Q. Were you aware of any areas which have, say, a loamy sandy surface texture and where erosion 11 is a problem? 22 A. No, I'm not aware where loamy sand textures were 23 found on the surface in any large areas. We did 24 have some loamy sand in the subsurface profile: 25 kersich - cross - which 		8	A. I don't recall. I'd have	e to go back and look at	
 11 Q. You don't know whether or not they are the same? 12 A. Not without going back and checking the standards 13 specifically. 14 Q. Soil texture in Class 2? 15 A. The answer would be the same for that also. 16 Q. Your texture standard is loamy sand to clay loam 17 and silt loam? 18 A. Yes. 19 Q. Were you aware of any areas which have, say, 20 a loamy sandy surface texture and where erosion 21 is a problem? 22 A. No, I'm not aware where loamy sand textures were 23 found on the surface in any large areas. We did 24 have some loamy sand in the subsurface profile; 25 kersich - cross - which 		9	it now. It's been quite	some time since I looked	
 12 A. Not without going back and checking the standards 13 specifically. 14 Q. Soil texture in Class 2? 15 A. The answer would be the same for that also. 16 Q. Your texture standard is loamy sand to clay loam 17 and silt loam? 18 A. Yes. 19 Q. Were you aware of any areas which have, say, 20 a loamy sandy surface texture and where erosion 21 is a problem? 22 A. No, I'm not aware where loamy sand textures were 23 found on the surface in any large areas. We did 24 have some loamy sand in the subsurface profile; 25 kersich - cross - which 		10	at them all, but they are	close to these.	
 13 specifically. 14 Q. Soil texture in Class 2? 15 A. The answer would be the same for that also. 16 Q. Your texture standard is loamy sand to clay loam 17 and silt loam? 18 A. Yes. 19 Q. Were you aware of any areas which have, say, 20 a loamy sandy surface texture and where erosion 21 is a problem? 22 A. No, I'm not aware where loamy sand textures were 23 found on the surface in any large areas. We did have some loamy sand in the subsurface profile; kersich - cross - which 	0	11	Q. You don't know whether or	not they are the same?	
 14 Q. Soil texture in Class 2? 15 A. The answer would be the same for that also. 16 Q. Your texture standard is loamy sand to clay loam 17 and silt loam? 18 A. Yes. 19 Q. Were you aware of any areas which have, say, 20 a loamy sandy surface texture and where erosion 21 is a problem? 22 A. No, I'm not aware where loamy sand textures were 23 found on the surface in any large areas. We did 24 have some loamy sand in the subsurface profile; 25 kersich - cross - which 		12	A. Not without going back an	d checking the standards	
 15 A. The answer would be the same for that also. 16 Q. Your texture standard is loamy sand to clay loam 17 and silt loam? 18 A. Yes. 19 Q. Were you aware of any areas which have, say, 20 a loamy sandy surface texture and where erosion 21 is a problem? 22 A. No, I'm not aware where loamy sand textures were 23 found on the surface in any large areas. We did 24 have some loamy sand in the subsurface profile; 25 kersich - cross - which 		13	specifically.		
 16 Q. Your texture standard is loamy sand to clay loam 17 and silt loam? 18 A. Yes. 19 Q. Were you aware of any areas which have, say, a loamy sandy surface texture and where erosion 21 is a problem? 22 A. No, I'm not aware where loamy sand textures were found on the surface in any large areas. We did have some loamy sand in the subsurface profile; kersich - cross - which 		14	Q Soil texture in Class 2?		
 and silt loam? A Yes. Were you aware of any areas which have, say, Were you aware of any areas which have, say, a loamy sandy surface texture and where erosion is a problem? No, I'm not aware where loamy sand textures were found on the surface in any large areas. We did have some loamy sand in the subsurface profile. kersich - cross - which 		15	A. The answer would be the s	ame for that also.	
 18 A. Yes. 19 Q. Were you aware of any areas which have, say, 20 a loamy sandy surface texture and where erosion 21 is a problem? 22 A. No, I'm not aware where loamy sand textures were 23 found on the surface in any large areas. We did 24 have some loamy sand in the subsurface profile; 25 kersich - cross - which 		16	Q Your texture standard is	loamy sand to clay loam	
19QWere you aware of any areas which have, say,20a loamy sandy surface texture and where erosion20is a problem?21is a problem?22A. No, I'm not aware where loamy sand textures were23found on the surface in any large areas. We did24have some loamy sand in the subsurface profile;25kersich - cross - which		17	and silt loam?		
20a loamy sandy surface texture and where erosion21is a problem?22A. No, I'm not aware where loamy sand textures were23found on the surface in any large areas. We did24have some loamy sand in the subsurface profile.25kersich - cross - which		18	A. Yes.		
21 is a problem? 22 A. No, I'm not aware where loamy sand textures were 23 found on the surface in any large areas. We did 24 have some loamy sand in the subsurface profile; 25 kersich - cross - which		19	Q. Were you aware of any are	as which have, say,	
22 A. No, I'm not aware where loamy sand textures were 23 found on the surface in any large areas. We did 24 have some loamy sand in the subsurface profile; 25 kersich - cross - which		20	a loamy sandy surface tex	ture and where erosion	
23 found on the surface in any large areas. We did 24 have some loamy sand in the subsurface profile; 25 kersich - cross - which		21	is a problem?		
23 found on the surface in any large areas. We did 24 have some loamy sand in the subsurface profile; 25 kersich - cross - which		22	A. No, I'm not aware where 1	oamy sand textures were	
24 have some loamy sand in the subsurface profile; 25 kersich - cross - which		23			
25 kersich - cross - which		24			
				,	
AUDIVISION SINCE AVERSION GREETER VERSION GREETER VERSI			CAREAC ALA CONTRACTOR	REPORTING SERVICE 201 M DWEST & LONG	

í

I

and the second se

		and the second state of the second state of second states and the second second second states and	
Ą	2 		
5.		12-3	1444
6			
6		1	Q. So with respect to your surface texture of Class 2
6		2	lands; you didn't find very many loamy sand lands?
5		3	A. Not that I recall, no.
9		4	Q. Are you familiar with the Bureau's experimental
		5	farm on Cottonwood Bench?
		6	A. No, I'm not.
	وبيا	7	Q. Who talked to the Bureau people to get the Class 2
5		8	standard?
		9	A. I don't recall at this time. You remember we
Ť		10	are going back over two years now roughly. Now
		11	I'm sure Chick Smith would have talked to them.
-	وشت	 12	I'm sure that well, I'm not sure, but I would
5	erg .		
	وس	13	assume that Ross Waples may have talked to them
	ر میں بیمیا	14	also.
		15	We had numerous meetings on these standards
	وم	16	with the Bureau, including having them review them
0		17	after we put them together.
0	ومند	18	Q. Were you present at those meetings?
0		1 9	A. I was across the hall, and the results of the meetings
		20	were brought in to me directly.
0	12	21	Q And there was no report made to you of the failure
0	-3	22	of the experimental farm?
0		23	A. The failure of the experimental farm, on what basis
0-1		24	did it fail?
		25	kersich - cross - white
<u> </u>		23	409 WEST 2410 STREET FRONTIER BEFORTING SERVICE 201 HER
-	10		409 4151 2416 31671 CHEYENIA WY B2001 - 3071 535 8280 - 3071 237-1493

2/

	12-4		1445
	1	a	I'm asking you. Was any report given to you
	2		about the failure of that farm?
	3	А.	I don't know.
		<i>n</i> .	
ب	4		THE SPECIAL MASTER: Just answer the
engl	5		question.
وس	6	A.	(By the Witness) I don't know of any failure of
	7		the farm.
	8		MR. ECHOHAWK: Objection, Your Honor. There's
	9		been no showing of what the experimental farm is about,
ولين	10		the reason it failed or anything. I think it's
لاتلية	11		entirely improper for Mr. White to infer such things
المستن	12		when the facts aren't in the record yet.
and and a second second	13		THE SPECIAL MASTER: The objection is overruled.
تسلير			He didn't get into the details about it. He only
م <u>م</u> لين المطلب	14		•
وسطي	15		asked if the experimental farm had failed, and the
ليسلي	16		answer can be yes, you knew, or you didn't. I
بط	17		don't think in the record I should exclude the
مصلي	18		question yet unless he proceeds further.
ويغير دوغ	19		MR. WHITE: I'm through with the area, Your
وب	20		Honor. I would ask more questions if he had known
et.	21		about it.
رم	22	Q	(By Mr. White) From what source did you obtain
-5	22		the soil texture standard for Class 3?
-3		A.	Those would have been the same.
-42 	24		sich - cross - white
	25		
5			PRONTIER REPORTING SERVICE 201 MIDWEST BUILDING CHAMENAL WY 82601 CHOTEGS 8280 CASER, WY 82601 CASER, WY 82601 CASER, WY 82601 CASER, WY 82601

,

í

 $\overline{}$

G	12-5		1446
5			
-	1	Q.	The same?
	2	A.	Yes.
0-1-4	3	Ø.	The same with respect to soil texture for Class 4?
0	4	A.	That's correct. It all comes down to reviewing
	5		what's been done in the area before and using our
T	6		own judgment and experience.
	7	Q.	I see you have a standard for soil depth to clean
G	8		sand, gravel or cobbles?
G	9	A.	Yes.
0			
0	10	Q	
	11		any quantifiable standard?
	12	A.	Basically that's material classified as sand
e	13		that is roughly 85 percent sand or higher. I
	14		can't remember exactly the percentages, and some
	15		of the other finer materials with it.
0	16	a	Would that 80 percent apply to gravels and cobbles
	17		as well?
	18	A.	No, there could be different varying characteristics
	19		or conclusions of those materials.
	20	Q	What did you mean by the term "clean cobble" then?
G		A.	Clean cobble, basically that's what we are saying
	21	<i>"</i> -	
	22		there is that we expect or could accept some of the
	23		cobbles within that particular area. There was no
	24		percentage there. That was part of judgment
	25	ke	rsich - cross - white
			. dog west 241h street FRONTIER REPORTING SERVICE 201 MpWest Building Control of B280 Cases and
		ł	(30) 1237-1233

3. . //

	مس		
6		12-6	1447
5	न्स् ।	1	
6	it)		whether the cobble would be sufficient in
5		2	quantity to inhibit root growth or decrease
5		3	moisture holding capacity.
5		4	0 How did you interrelate your soil depth to clean
		5	sands, gravel or cobbles for Class 3 to your other
		6	standards for surface leveling for Class 3?
		7	A. To surface leveling for
		8	Q. Back on the second page. It says surface, leveling,
	en e	9	and Class 3 says heavy leveling, maximum average
9		10	cut 0.88 feet.
3			
	ومت	11	A. If you had an awful lot of leveling required and
9	er y	12	a very thin mantle, you would have probably downgraded
9	البيبي ا	13	those particular areas. If you had sufficient topsoil
•	2.2.9	14	to maybe be a larger class but it required heavy
9	لويين ا	15	leveling, then you may have downgraded that
	وسي	16	particular tract to 3, you understand?
	_	17	0. I understand.
9		18	A. They work intimately, not separately.
0		19	Q So you did have an interrelationship and where
0		20	you had had heavy leveling, you went back and
1		21	checked to see whether or not after the leveling
		22	you would still have an adequate soil depth to clean
-		22	sand, gravel or cobbles; is that correct?
-			A. I can't say we went back and checked it all the
9- 7		24	kersich - cross - white
	5	. 25	
	10		109 WEST 24TH STREET FRONTIER REPORTING SERVICE 201 MDWEST BUILDING CHEVENNE WY 82001 (307) 635 8280 CASPER, WY 82001 CASPER, WY 82001

í

201 MIDWEST BUILDING . CASPER, WY 82CO1 13071 237 1433

*//

and the second second

and a state of the state of the

in the second

12-7 1448 1 That was a decision that was made many time. 2 times in the field and in some instances verified 3 by other land classifiers or even by myself. 4 α On what occasions did you verify it yourself? 5 A. Well, we went out in the field Friday to look at 6 a couple areas where we thought we might have a 7 very thin layer of soil, and as it turned out, we 8 didn't. We had good soil silt matrix below the 9 top 12 inches. There were some small gravels 10 present, but sufficient fines to do the job that 11 was required there with regards to root development 12 and moisture holding capacity. Was this Class 3 land with a heavy leveling 13 a 14 requirement that you checked? 15 Α. I don't recall that it had a heavy leveling requirement. It was Class 3 land. 16 Do you recall at any time that you went back and Q 17 checked where you had a heavy leveling requirement 18 in a thin soil? 19 Not offhand I can't recall, no. A. 20 Under your standards for alkalinity of soils, what Q 21 do you mean by optimum drainage conditions? 22 Normally coarse texture soils with few fines where A. 23 the sodium as it moves through the profile or is 24 kersich - cross - white 25 FRONTIER REPORTING SERVICE

409 WEST 24TH STREET

CHEVENNE W1 82001 (307) 635 8280

201 MIDWEST BURDING CASPER, WY 82601 (307) 237 1493

	12-8	1449
5		
	1	moved through the profile would not be able to
9	2	affect the clays and inhibit permeability.
	3	Q Did you develop quantifiable standards or
	4	guantified standards for that?
	5	A. These chemical standards relate very closely to
T.	6	what work the Bureau has been doing in the area,
	7	and that's why we had confidence in them.
- eng	8	Q. What chemical standards did you use in that area?
	9	A. The ones that are listed here.
	10	0. On the second page of your standards you have
enite o	11	surface gravel and cobble. Class 1 and Class 2^{-} are
- and	12	relatively free and moderately free with respect to
	13	do you have any quantifiable standards with respect
	14	to what's meant by relatively free and moderately
- Les	15	free?
- Jung		
- Inde	16	
	17	classifier, and that's one of the reasons we try
and the second s	18	to obtain people with a number of years of
1	19	experience in doing this.
	20	I personally didn't see such cobble on the
	21	surface or in my inspections of the areas, and in
	22	the holes that I did dig, we did find gravel, but
	23	remembering that gravel is defined as up to three
1-3		inches, that's not very big.
	24	kersich - cross - white
	25	Kersich - Gloss - While
		Ater WEST, Alm Scheel FRONTIER REPORTING SERVICE 201 M DAEST BUILDING CHEELPAL WY 872-01 CEDTERS 92-90 CEDTERS 92-90 CEDTE

102+237 1473

 $\widehat{}$

A Contraction of the second se			
5	12-9	۰ •	1450
	1	Q.	Mr. Kersich, with respect to your slope standards
5	2	A.	Yes.
5	3	Q	your sprinklers, what was the source of those
	4		percentage standards?
	5	A.	Well, I can't recall the exact source. It may
	6		have been the specifications that the Bureau used
	7		on Muddy Ridge, but I'd have to go ahead and take
53	8		another look at that. They are reasonably conservative
5	9		though they are certainly not alarming to anyone
9	10		that has done sprinkler irrigation.
	11	Q	Are you aware of other standards that have
5	12		percentage of slope as high as 20 percent for
	13		sprinkler irrigation?
	14	A.	It would take me a minute to think about this, but
-	15		as far as under Class 3 lands at the 20 percent,
	16		yes, I think I have. I'd have to go back and look
	17		at the standards I saw that the Bureau used in the
	18		Columbia Basin, but as I recall, those were either
	19		approaching 20 percent or at 20 percent. It's
	20		obvious from inspection of the Columbia Basin that
3-1-3	21		they are irrigating slopes steeper than 20 percent
Ĩ	22		with success.
	23	Q	Have you done land classification work in the
	24		Columbia Basin on those lands?
G	25	ker	sich - cross - white
			409 WEST 2410 STOLET CHEYENAL WY 87601 EBO70 635 87801 (307) 231 1451

ĺ

5

the Artistan and Artistan and the Artist

		1451
	12-10	
3 ·	1	A. No, but we did spend some time out there with
94	2	the Bureau of Reclamation people at the Ephrata
94	3	office looking at various sandy areas and
	4	sprinkler applications that were being utilized
	5	there.
	6	Q Is that an area that's similar to the Wind River
	• 7	Indian Reservation area?
	8	A. In what respect do you mean by similar?
	9	Q. In any respect.
	10	A. Well, it's undeveloped land in many places.
	11	THE SPECIAL MASTER: You mean topographically,
	12	don't you?
I	13	THE WITNESS: It's rolling. It certainly has
-	14	a different climate, of course.
	15	THE SPECIAL MASTER: Does your experience lead
L	16	you to know of areas where there has been irrigation
	17	of lands on a 20 percent slope in the Rocky Mountain
	18	Arid West?
Ē	19	THE WITNESS: Yes.
L	20	THE SPECIAL MASTER: I'd be interested in
	21	seeing some of those.
	22	THE WITNESS: I have some pictures that, if I
L	23	can find those, I could maybe send you sometime.
	24	THE SPECIAL MASTER: The only 20 percent
	25	kersich - cross - white
-0	<u> </u>	4 - CAEST, STRESHET CHEETER AVACEST CONTROL STRESHER CASER, ST 62601 CONTROL ST CONTROL ST CASER, ST 62601 CONTROL ST CONTROL ST

I

,

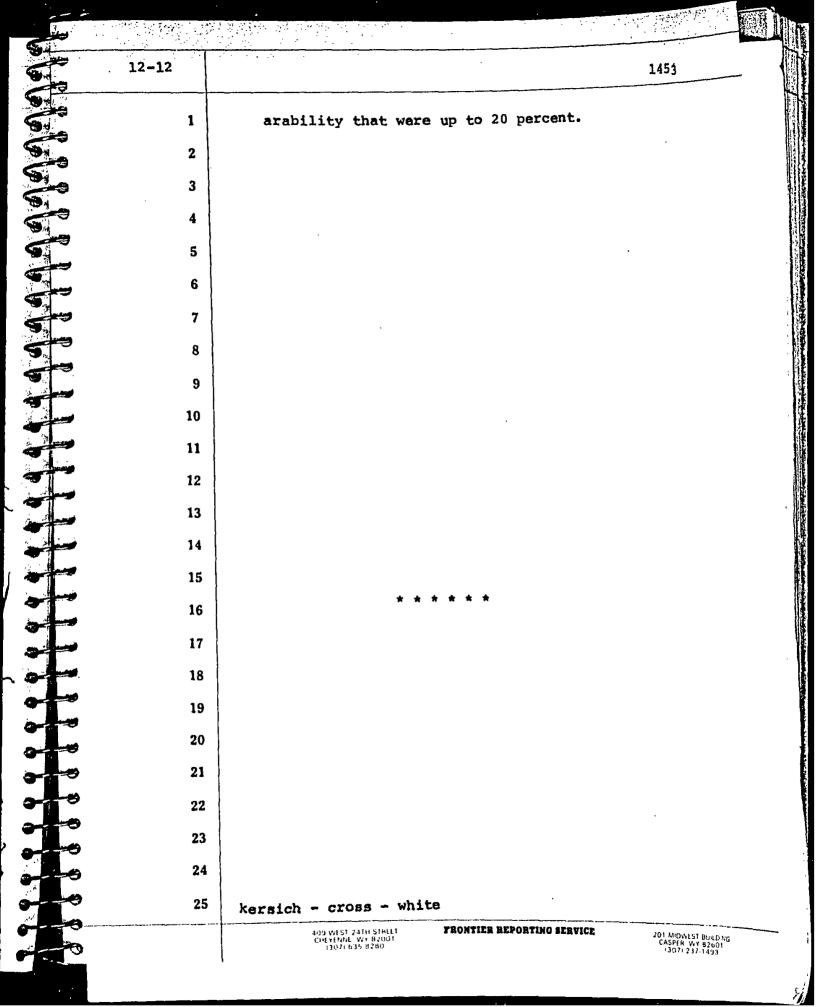
5		
5	12-11	1452
5	1	slopes I'm familiar with are those that have
57	2	grown wine grapes over the centuries and only
SI	3	that's done with terracing and very serious
5	4	terracing to catch the moisture and hold it on a
5	- 5	slope that's that steep.
-		· · · · · · · · · · · · · · · · · · ·
-	6	THE WITNESS: When you get into a slope that
5	7	steep, you have to be very concerned with the
5	8	surface texture so that your rate of application
5	9	of water and the rate of infiltration or the rate
	10	that the soil will accept the moisture can be matched
	11	up, but it's entirely possible to go ahead and
and the second	12	irrigate slopes that steep and
	13	THE SPECIAL MASTER: What percentage
	14	pardon me, Mr. White.
-	15	MR. WHITE: That's all right.
and the second	16	THE SPECIAL MASTER: What percentage of the
-3	17	Class 3 lands you have designated on these exhibits
	18	today would you say fall into the category of having
	19	that 15 to 20 percent slope? Certainly it can't
3-55	20	be very much of it, can it?
3		THE WITNESS: No, there's not very much. I'm
	21	not sure that there's any that meets it. That was
	22	a parameter that was set up, and I don't recall just
3-1-13	23	offhand any slopes that we finally certified for
3	24	
G	25	kersich - cross - white
0		SOLARS AND DEEL FRONTIER REPORTING SERVICE 20 MOVEST 60 (1997)
PPC _		

عممهمان ومعصمان ومقامين والمنافعة والمنافعة والمنافعة والمستعمل

になられたたまで

The advised to be special

i k



the second s			
	13-1-LM-CR		1454
91	1	Q	(By Mr. White) With respect to surface leveling,
	2		did you determine the current costs of leveling
	3		or excavation?
5,3	4	A	No. This one we used almost directly from the
	5		Bureau. The Bureau had some costs in the area.
	6		We worked with them on it trying to develop
	7		their information and these very closely
5	8		approximate what they had broken out.
	9	Q	On what date?
T	10	A	I can't remember exactly. I would have to go
	11		back and look at the Muddy Ridge and Cottonwood
-	12		Bench work. This, of course, is, you know,
	13		subject to further review. This is the land
	14		classifier's best estimate. It is subject to
-	15		further review by the engineer and the economist
معرف	16		later.
	17	Q	Under your surface standards for sprinklers on
ale.	18		the second page of your Exhibit C-36, does not
ale	18		the applicable language that extends through
ste	19 20		all four classes infer that leveling will not
			be required under any circumstances for sprinkler
	21		irrigation?
ste	22	А	Your leveling will not be required for the field
	23		size we are talking about here. There may be some
-	24	, 	
T	25	ker	rsich-cross-white
			TRONTIER REPORTING SERVICE 201 MOMENT (SUB- CAPTER MILLIO CAPTER MILLIO 307:237 1473

STATES IN

の時間に

and the second second second

	13-2		
		 	1455
0			
	1		individual smoothing that may have to take place.
	2		THE SPECIAL MASTER: While we're on
e	3		that exhibit give me the language again of the
6	4		footnote four, page 3, please, on the actual
-	5		original exhibit.
Contract of the second	6		THE WITNESS: Four says no drainage
1	7		requirement is necessary for lands and then, sir,
	8		that should be
0	_		THE SPECIAL MASTER: Yes, I have it too.
0	9		Okay. Thank you.
	10		Okay, Mr. White.
	11	Q	(By Mr. White) Which portion of the table itself
سلية	12	×	did that footnote apply to, was it the last two?
et.	13	A	I have it on the last page, Mr. White, and then
	14	n	under Class 4 I have the footnote 4 on the portion
	15		
	16		that read "at least .10 inches per hour, at least
	17		6 feet."
et.	18	Q	Okay. And I can't remember, did you make the
	19		change or did you make no change to the footnote 2?
	20		THE SPECIAL MASTER: No change.
-	21	A	I changed that one word irrigable to arable and
er s	22		then
G S	23		THE SPECIAL MASTER: You changed it right
	24		back to irrigable.
J.	25	ker	sich-cross-white
-0			THE ALL THE THE FRONTIER REPORTING SERVICE
1			CASEER, Ar BEEG CASEER, Ar BEEG (307) 237 1493

and the second second

is.

		•	
	13-3		
			1456
	1		THE WITNESS: No, sir, I didn't. I
2			
	2		didn't think I did.
FF-9	3		THE SPECIAL MASTER: I thought you did.
	4		MR. WHITE: There are two irrigables
	. 5		there and I believe he changed the first irrigable
	6		to arable. Is that correct, Al?
	7		THE SPECIAL MASTER: I have a note
yeses .	8		here. This witness said there is a mistake.
			Then I had a note later on he corrected himself.
	9		So I made the note STEP meaning leave it alone.
	10	•	
	11	Q	(By Mr. White) Now, on the Court's copy of Exhibit
Barriel .	12		C-36
	13	A	Yes, I show it here as arable, sir.
and the second second	14	Q	The first irrigable becomes arable?
Constant of the second	15	A	Yes.
and the second	16		THE SPECIAL MASTER: The second one
Contract of			is left alone?
Contract of the second	17		MR. WHITE: Yes, sir.
Contraction of the second	18		
Contraction of the second	19		THE WITNESS: Right,
6	20		THE SPECIAL MASTER: All right. Thank
Caring .	21		you.
Carried Street	22	Q	(By Mr. White) Now let's go back to the second
Grando	23		page, please, under surface leveling for sprinklers.
Cardon Cardon			You indicated no leveling would be required for
	24	1	sich-cross-white
9-2 9-2	25	xers	31CU-CLOR8-MUTLG
			FRONTIER REPORTING SERVICE 201 M DWAST 6
			CASE4 W 2763 (107) 237 1453

Pu .

		·	
	13-4		
			1457
8			these field sizes?
en an	2	A	Basically, no leveling would be required for
			the fields. Over the entire field there may be
	3		some small land preparation that might be done,
e	4		
0	5		but there was no specific requirement for
er	6		leveling.
er	7	Q	Does land preparation include filling in gullies
	8		or is that part of leveling?
	9	A	Let's define a gully. I'm not trying to be wise
	10		and ask you questions, but I think there is
e	11		an understanding here that if you have the normal
Ores	12		rolling undulating terrain that we are talking
Contract of the second	13		about out in that area and sprinklers can go
Course .	14		through it and you can get farm equipment over
Carried Contraction	15		it, you're not going to spend a lot of time
entre			changing the character of your topsoil by
er	16		trying to level that field out completely.
Orino 1	17		Now there may be instances where you have to
o de la	18		do some minimal work in some of those gullies.
e	19	_	
0	20	Q	How deep would a gully have to be before you
O MA	21		would have to start doing that type of work?
O S	22	A	What type of equipment are you talking about,
	23		Sandy?
0	24	Q	I'm talking about whatever you assumed when you
0	25	kers	ich-cross-white
			FRONTIER REPORTING SERVICE
TU			ing (shoring a shoring a shori

۱

5

2

and the second

والمتقاربين والمعرمة والمتحدثين

تستعدد فشقا بالمشقع وسود وتتكر المعاصر

71

1	3-	-5
_	<u> </u>	· J

1458

developed these standards. 1 Well, I can't recall seeing many gullies that A 2 are going to have to have much work done with 3 them out there. But side rolls or center pivots, 4 and as I recall, there were no center pivots ever 5 put in as the ag engineer designed, but it is 6 awful interesting to see what the manufacturers 7 tell you about the center pivots. For example, 8 they maintain they will go down a thirty percent 9 slope and up a thirty percent slope. 10 Okay. So you made no assumptions with respect Q 11 to the depth of the gullies that would have to 12 be filled or would require leveling, is that 13 correct? 14 Well, there's one thing that maybe you ought to Α 15 think about and that is if the gully was so 16 steep and so wide as to create a problem, normally, 17 that would have been classified as Class 6 lands 18 and taken out of the tract. And then how the 19 ag engineer wanted to handle it. Whether he 20 wanted to put a system on each individual tract 21 or whether he wanted to go ahead and fill it in. 22 that would be part of his concept. 23 I see. So he might include Class 6 lands in Q 24 kersich-cross-white 25

FBONTIER REPORTING SERVICE

03 MOWEST BUIDING CASPER WY 82003 - 307: 237 1493

Contraction of the second s	13-6			
	, بر بر ۱۹۵۵ میکند. ۱۹۹۵ میروند (۱۹۹۵ میکند)		1459	
191 191	1		a tract and just fill it in so the sprinkler would	
	2		go right across it?	
	3	A	Well, many times Class 6 lands are included	
	4		in tracts depending on the field layout, the	
le s	5		farm layout and one thing and another. So, yes,	
1	6		he may very well go ahead and either decide to	
	7		include it and provide some kind of a walkway for	
	8		his equipment to get across or maybe by looking	
	9		at it, he knows that his equipment could get	
	10		across that area, right.	
	11	Q	Let's go to irrigation and pattern and field size,	
1	12		please. I see no standards except for side roll	
L	13		and center pivots, is that correct?	
	14	A	Do you mean for a minimum size for side roll and	
- market and the second se	15		center pivot?	
Í.	16	Q	Right.	
	17	A	Yes, that's listed there.	
	18	Q	Those are the only ones for which you have a	
	19		minimum size?	
	20	A	Yes.	
	21	Q	And yet in your report you have indicated that	
	22		other types of sprinklers might be used?	
	23	A	I believe, yes, I said that a person we're	
-3	24		talking here about either intermittent moves or	
	25	ker	sich-cross-white	
		· • · · · · · · · · · · · · · · · · · ·	4 NEW CONSIDER REPORTING SERVICE 201 M DAEST BURGES CREERVAL AS NEWS CAREAU CAREAU CAREAU REPORT CAREAU CAREAU CAREAU CAREAU CAREAU CAREAU CAREAU CAREAU	

,

13-7

1

2

3

4

5

6

7

8

9

10

11

12

13

14

15

16

17

18

19

20

21

22

23

24

25

kersich-cross-white

continuous move and a person could irrigate smaller tracts of lands, irregular shaped land if they used a hand move or a solid set type of sprinkler. To me that's very similar in management still to a gravity system. That's one reason I guess I don't differentiate that and call that a sprinkler system. So a hand move sprinkler system is like a Q rainbird on the end of the hose, is that what you're talking about? It could be this or it could be an awful lot Α of aluminum pipe put on a little wagon and trundled out to your field. You assemble it. If you have risers and tie it to a water source, a little pump running out of your ditch, or something like that. Again, going back to my past experience, I have seen many times where you have a lateral on a side of a hill and the hill is rather steep and they just drop pipe out of the ditch and use the natural grade as the pressure. They do a pretty good job of irrigating many times. That's generally for pasture land, isn't it? Q That's pasture but you can make hay on that. А

1460

FRONTIER REPORTING SERVICE

	13-8		
1	ΞΞ 13~8	·····	
			1461
			I've seen hay fields, again back to the Columbia
	2		Basin.
		Q	What do you mean by solid set sprinklers?
		A	That would be a sprinkler that would be tied
	 5		down there is a system that is manufactured
<u>.</u>			for alfalfa where they vary the pipe and have
6×	7		what they call alfalfa risers. I'm not sure
6-22			there's one in the Big Horn Basin but I know
	9		they are manufactured and I know they are used
<u>e</u> _	1 0		in places. That would, in fact, be a solid
er			set. In other words, you didn't pick it up
e	12		all the time. Another solid set would be if
0			you had grapes or some type of orchard crop,
e	14		you know what I mean.
	15	Q	Uh-huh.
e		A	In other words, the facility is buried, it's
e	1 7	[not moveable.
e		Q	Would you refer to Table 8 of your report which
			Was
0-	20		THE SPECIAL MASTER: May I ask a
0	21		question before you get through this?
0	22		MR, WHITE: Yes, sir,
	2 3		THE SPECIAL MASTER: Define for us a
0	2 4		point roll.
9-	2 5	kersi	ch-cross-white
	***		ADRIVEST 24TH STREET FRONTIER REPORTING SERVICE 201 MOWEST BUILDING CHEVENIL, WY 825001 CAPPED 2010
	×		(307) 237-8280 (307) 237-1493

į

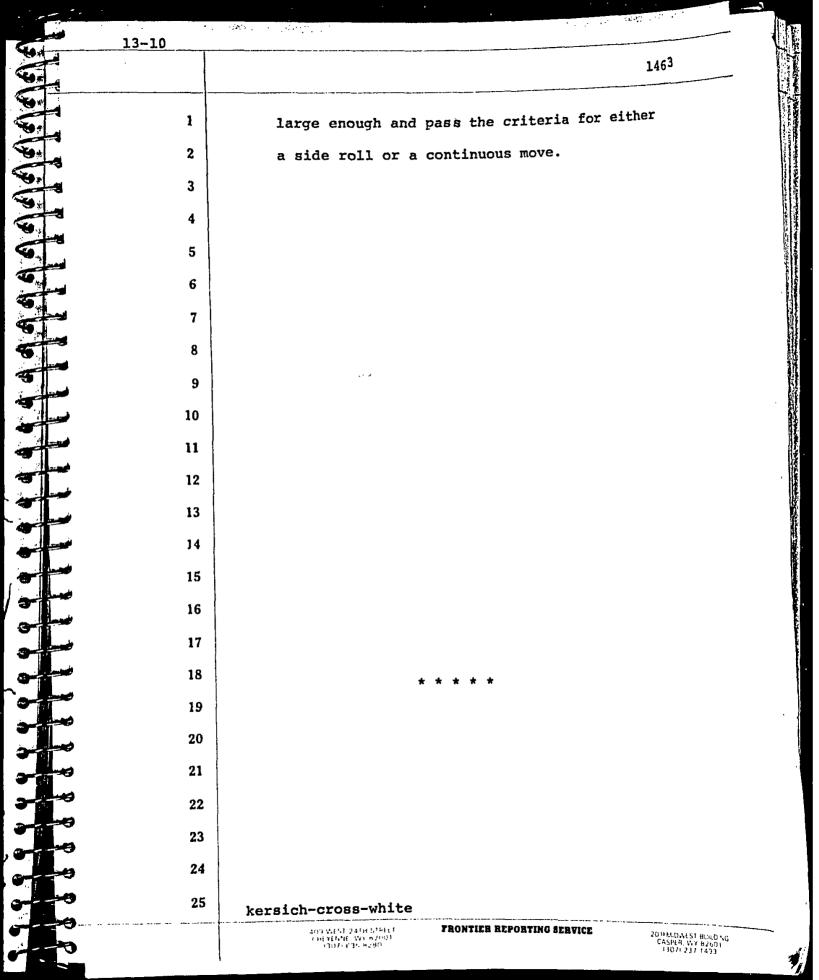
l

2

¢

	13-9		
8			1462
5	3		
5]	1		THE WITNESS: Sir?
5			THE SPECIAL MASTER: What's a point
			roll.
8		A	It is when the field, the tract that you're
5	5		working with comes to a sharp point or a series
5			of points which may give you a problem of
5	*** 7		irrigating there.
9	***		THE SPECIAL MASTER: Right. Thank you.
	نې پېد د 9		What did you call for?
-			MR. WHITE: C-43, Your Honor, the
			report, Table 8.
1	11	Q	(By Mr. White) I see the hand move and solid
4	12	×	set sprinklers described in footnote 1 under
-	13		gravity.
-			
1	15		(Witness nodding head (affirmative.
	16		
	17	Q	Do those types of sprinklers play any role in
᠈╣	18		the lands which you have described as additional
	19		sprinkler lands or are those types of sprinklers
	≥ s 20		limited to gravity?
		A	that type of sprinkler, of course, could be used
)-			anywhere so it could be used on additional
	23		sprinkler lands, but the lands that we're calling
T	× 24		additional sprinkler here are lands which are
1	~ 1 25	ker	sich-cross-white
			August 24 freshtet FRONTIER BEPORTING SERVICE
			рад улучатарана мартика и изголици изголици велото велотов мартика и изголици изголици велотовелотовелотовелотовело сабрана и изголици изголици велотовелотовелотовелотовело сабрана и изголици велотовелотовелотовелотовелотовело сабрана и изголици велотовелотовелотовелотовелотовело сабрана и изголици велотовелотовелотовелотовелотовелотовело сабрана и изголици велотовелотовелотовелотовелотовелотовело сабрана и изголици велотовелотовелотовелотовелотовело сабрана и изголици велотовелотовелотовелотовелотовело сабрана и изголици велотовелотовелотовелотовело сабрана и изголици велотовелотовелотовелотовело сабрана и изголици велотовелотовелотовело сабрана и изголи и изголи велотовело сабрана и изголи и изголи велотовело сабрана и и изголи велотовело сабрана и изголи велотовело сабрана и изголи велотовело сабрана и изголи велотовело сабрана и и и и изголи велотовело сабрана и и и и и и и и и и и и и и и и и и

¥)



		· · · · · ·		in the second seco
14-1 MR-CB			1464	
	1	A	(continued) But that's not to preclude a person	
	2		from not using a hand move on that particular	
	3		tract of land.	
	4	Q	In Table 8, I see that there are, for Big Horn	
	5		Flats, 6,088 acres of Class 2 land gravity, and	
	6		then 191 additional Class 2 lands under sprinkler,	
	7		additional sprinkler.	
e e e e e e e e e e e e e e e e e e e	8	A	Yes.	
	9	Q	Do these exhibits, the large area maps that you	
	10		have been talking about, show the location of	
	11		those additional sprinkler lands?	
Being	12	A	They show the location of all the sprinkler	
en e	13		lands.	
Balander Marine	14	Q	How would you find the, let's say off of Exhibit	
Bened	15		C-49, which is up on the tripod now. Where are	
e	15		the 191 acres of additional sprinkler lands	
er e	•		located?	
	17	A	That particular 191 acres?	
Bert	18	* *	The Long and the Max and	
	19	Q	Yeah.	
ort	20	A	I couldn't find that unless we went to the book-	
0 2	21		keeping procedure I described to you at the	
0	22		depositions.	
	23	Q	With the exception of Owl Creek, would your	
-	24		answer be the same for all the other additional	
ar‡4	25	ker	sich-cross-white	
a 1			A09 WIST 24TH STRIFT FRONTIER REPORTING SERVICE	
T			CHEMENNE, WY 82001 (307) 633, 8280 (307) 237, 1493	f#G 11

ſ

1. And the state of the state of the second s

والمحاف والمحاذلة والأرداف محادية والأحاث كالتحاضية لمرادع

and the second se	
14-2	1465
1	sprinkler lands that are listed on Table 8?
	A Yes. On Owl Creek there are no gravity lands,
3	all the lands are sprinkler categories.
4	Q But you couldn't point out those additional
5	sprinkler lands on that map; is that correct?
6	A That's correct.
7	THE SPECIAL MASTER: I'd like to ask a
8	few questions.
9	MR. WHITE: Yes, sir.
10	THE SPECIAL MASTER: Mr. Kersich, if there
11	are 865 acres of Class 1 potentially arable on
12	Big Horn Flats, did you study how many actual
13	acres there are now of Class 1 on Big Horn Flats
14	historically being irrigated or have been over
15	the past decades?
16	THE WITNESS: There are no lands in this
17	particular area of the Big Horn Flats
18	THE SPECIAL MASTER: None whatever?
19	THE WITNESS: that are being irrigated
20	now, sir.
21	THE SPECIAL MASTER: Do you know of any
22	reason why, if there are 865 acres of Class 1
23	arable lands, that they were not put into irrigation
24	in the past, in the decades past?
25	kersich-cross-white
	And WEST 241H STHELT CHETERIE WY B2001 (9-77-6.05 52H0) 10021 231 1401

7

		and the second se
······································		
14-3		. 1466
	1	THE WITNESS: I think
	2	THE SPECIAL MASTER: Or for that matter in
	3	the North Crowheart area, South Crowheart or
	4	any place else.
	5	THE WITNESS: I think those reasons are
	6	going to become evident when the agricultural
	7	engineer and economic
	8	THE SPECIAL MASTER: All right, somebody
	9	else's province, okay.
		MR. WHITE: With respect to Mr. Kersich's
	10	MA. WILLE: WICH LESPECE CO MI. MELDICH D
	11	answer, I'd ask you to put a footnote in your notes
	12	because that's the area we are going to cross-examine
	13	Mr. Billstein about.
	14	THE SPECIAL MASTER: All right. It's in
	15	my head not my notes.
	16	THE WITNESS: I think your note should go
	17	in, we're talking about 865 acres of undeveloped lands.
	18	THE SPECIAL MASTER: Oh, yes. It's all
	19	undeveloped, all four classes?
		THE WITNESS: As we noted this morning
	20	there are some lands in the Big Horn Flats study area
	21	
	22	along Sage Creek that, as I recall, are presently
	23	being irrigated, and someone will be discussing that
	24	during the future part of the trial.
	25	kersich-cross-white
		409 WEST 24TH STHEET CHETEINEL WY 82001 (307) 635-8280 409 WEST 24TH STHEET CHETEINEL WY 82001 (307) 237-1491

")~

ť

65 45

45 --9

0

9 5 -

日にため

には時間の

日本にもというたち

251			
- 1	14-4	,	1467
-1	1		THE SPECIAL MASTER: Okay.
-11 -11	2	Q	(By Mr. White) I want to make sure the record's
-	3		clear, Mr. Kersich, in the Big Horn Flats you
-	4		said that the 865 acres of Class 1 lands, which
	5		are shown on Table 8 in Exhibit 43 include no
	6		lands that are presently or historically irrigated;
**	7		is that correct?
*	8	A	Well, that's that I've got to check, but the
	9		purpose of this study is to only have the acreage
يين ايند	10		in it which is not being irrigated at the present
	11		time.
	12	Q	So it could have been irrigated in the past and
	13		still be in your arable land study?
	14	A	If it were irrigated in the past and irrigation
	15		had ceased, there was no permit on it, you know,
	16		or any authorization to use water, that may have
العد العد	17		been included.
	18		Now, whether or not there's some of that
لتعو	19		acreage within the 865, I can't testify to that
	20		now.
**) *3	21	Q	On the third page under drainage, your surface
-	22		standard,
-	23	A	Yes.
	24	Q	Class 2.
-0	24	ker	sich-cross-white
•3		 	409 WEST 241H STREET CHEVENNE, WY 82001 (307) 635 8260 201 MDWEST 80 (DM) (307) 635 8260

E .

	••			(gal + 1
 	14-5		1468	
Grannet.	1	A	Yes.	
2 7-19	2	Q	What do you mean by "Relatively low cost"?	
0	3	A	Again, this is a judgmental thing, something that	
8	4		a farmer would do just by going out with part	
erent,	5		of his equipment, not putting any elaborate	
e	6		ditches systems in that convey water around his	
Carrier .			fields, things of this nature.	
Oint Oint	7	Q	Whose judgment?	
Creating and	8		The judgment of the classifier of the land	
Bennet	9	A	The judgment of the classifier of the land	
Bend	10	j	classifier and collective judgment of myself in	
9 met	11		reviewing the lands.	
9	12	Q	Class 3 under surface drainage, you have "Expensive	
9-10 8-11	13		but feasible". What's meant by "Expensive but	
gund	14	}	feasible"?	
9 mil	15	A	There again, we're talking about where we have	
gunget .	16	{	a could have an irregular surface or a large	
المسور المسور	17		amount the area may be in a spot where a large	
ensel .	18		amount of water could be delivered to this	
-	19		particular farm or this particular tract, and at	
2	20		this point in time then we would realize that we'd	
end			have to do more than just minimal work, we'd	
	21		bring to the attention of the agricultural	
6-4 6-4	22		engineer to see whether he has to compute any	
	23		- · · ·	
Card I	24		particular engineering structures, etcetera, to	
	25	kei	rsich-cross-white	
			403 WEST 2410 STREET FRONTIER REPORTING SERVICE 201 MDWEST B ORTHONE WIT 82001 CASPER WITH CASPER WITH	
		1	CASES (2007) (2017) (20	13 13

,

وتستنا

Links of Standard States Service States of States

ŧ į.

STATES OF

		· · · · · · · · · · · · · · · · · · ·	
44	14-6		
41			1469
94 	1		take care of that drainage around it.
	2	Q	So your land classifiers used the standards
14	3		and they decided what was expensive but feasible,
les Les est e Les	4		or did you, if you had that problem, did you go
ويستنب	5		to the agricultural engineer before you made a
	6		determination?
-	7	A	They make an initial determination and they
	8		alert the agricultural engineer through the
	9		soils characteristics.
-	10	Q	So expensive but feasible again is the standards
-	11		that are applied, is a judgmental thing?
	12	A	Yes. I'd like to correct that answer. It's
	13		judgmental but subject to further review.
	14	Q	Did you conduct any further review with respect
	15		to that?
	16	A	We looked at a number of these lands, as I said,
	17		out in the field, and in the aerial photographs
	18		and we didn't find any particular tract where
	19		surface drainage was going to be a particular
	20		concern.
	21		THE SPECIAL MASTER: Did you find any alkali
	22		in that area
	23		THE WITNESS: Yes, we did.
-3	24		THE SPECIAL MASTER: along that irrigation?
	25	kers	ich-cross-white
	····································		409 WEST 2416 STREET CREATING WY 82001 1007 635 9260 FRONTIER BEPORTING SERVICE 201 MOWEST BURDING CASIER WY 82601 1007 237 1493

-

والم المالية ال من المالية المال

こと、たんちょうちのないないないないないないないとうとうとう

¥,

14-7		
		1470
	1	Did that serve sort of as a caution that
	2	maybe there'll be drainage problems again?
	3	THE WITNESS: Yes, sir. In many of those
	4	areas we discarded we have a number of areas
	5	• that we holes in from a standpoint of depth
	6	to barrier, things of this nature that looked
	7	okay from the standards, but those were discarded
	8	and eliminated because high presence of salts and
	9	high presence of sodium.
	10	MR. WHITE: Your Honor, I need to get another
	11	exhibit, I'm sorry. Were you going to ask another
	12	question?
	13	THE SPECIAL MASTER: Off the record.
	14	(Off-the-record discussion.)
	15	MR, WHITE: I didn't mean to interrupt your
	16	questioning, Your Honor.
	17	THE SPECIAL MASTER: We'll take five minutes.
	18	(Thereupon a five minute recess was taken.)
	19	200605 Wab Lanen, j
End 14	20	* * * *
	21	
	22	
	23	
	24	
	25	
		409 WEST 24TH STHEET CHEYENNE, WY 82001 (307) 636-8260 (307) 737-1431

۰,

	15-1	V-CB	1471	
		1	THE WITNESS: Could I clarify one answer	
		2	I gave?	
			-	
		3	THE SPECIAL MASTER: Yes.	
		4	THE WITNESS: There seems to be some	
L		5	question about this 191 acres on Big Horn Flats, and	
L		6	my answer said I couldn't point to the specific plot	
-		7	today, but if I have to find those 191 acres, it can	
-		8	be done by going back and working with the aerial	
		9	photographs and the tabulations made of each section	
-				
		10	up there to locate those.	
		11	Q (By Mr. White) What kind of tabulations did	
المعنية. المعنية		12	you make in each section?	
		13	A They are similar to some I have here for some	
العنير		14	of those other questions I answered.	
مسلو		15	Q What is shown on those tabulations?	
هينس		16	A Can I open one of these?	
معبدي			Q Oh, sure.	
العيسي المشار		17		
العيسي العيسي		18	A Very good.	
میں اکٹیس		19	Q I'm not asking you for the contents. I'm asking	
- 		20	you for the type of information that's included	
		21	in that.	
÷63		22	A Yes. The first thing that we have normally in	
6-0		23	each one of these units that we have is the date,	
6-0 6-0		24	the gravity, sprinkler, and the total by class	
			kersich-cross-white	
6-8		25		
50			ady WEST 2470ESTORET PRONTIER REPORTING SERVICE 201 MOARS' 6 CHEMINTE WEB2005 CASER WYB 307 FEB 4280 107 201 10 107 201 10	26

فالمتكف وتشترك ويستمونه فالمتح والتسويلية كالموتي ترك

.

9 9	15-2		·········		1472
, 	1			for each of them plus totals.	
	2	2		Those totals are further broken up in	to
		3		fee and trust, and then there is a column	
		4		the Township we are working in here (indic	
			0		
				And then did you break it down by section?	
		6	A	Basically, that's correct, yes. We go dow	
	·	7		we took each section and analyzed it for f	
	1	8		and trust lands. Many times fee wasn't in	
	:	9		like out in some of those areas, and we ju	ist
	1	0		broke it down by section and plat, and you	have
	1	1		to look at the aerial photograph because t	he
	1	2		actual totals are on the large aerial phot	ographs,
اعتبا اعتبا	1	3		and that is the way you would break it dow	m to
لمتعط	1	4		determine that the 191 acres are there.	
ed .	1	.5	Q	I see that you have tapes there, adding ma	achine
ad		.6		tapes?	
			A	Those are the check tapes to see that we h	nave
		7		included each of the tracts.	
		8			
		9	Q	And then you added up all the subtotals ur	
	2	20		trust for Classes 1 through 4 to get your	total
	2	21		arable lands?	
1 () () () () () () () () () (2	22	A	That's correct, yes. And that's the way :	it would
	2	23		have to be done to be found exactly.	
	2	24	Q	Rather than having you do it, I wonder if	it
	2	25	kers	ich-cross-white	
5-2-1				409 WEST 24TH STREET FRONTIER REPORTING SERVICE CHIEFTAL WE 82001	201 MOWEST HUNDERS
7				(307) 635 B280	201 MOWEST HULDING CASPEH, WY 82008 (392) 237-1493

····		
	15-3	1473
	1	would be possible for us to have copies of
	2	those tabulations? That way we can do it and
	3	save a lot of time in cross-examination.
;	4	MR. ECHOHAWK: That's fine with us. Do you
	5	just want the particular one you looked at?
	6	MR. WHITE: No, I would like all of them for
L	7	the arable land base. That way we don't have to
	8	go through parcel by parcel.
_	9	THE SPECIAL MASTER: Do you want to subpoena
	_	
	10	them? MR. WHITE: I'm just asking if he would give
	11	-
	12	them to us. We are in trial
	13	MR. ECHOHAWK: We will make them available
	14	for copying.
	15	MR. WHITE: Sure.
	16	THE WITNESS: I have a question. These
	17	are originals here, and could I make one request?
	18	When you make copies, if you are going to work off
	19	of copies, I would like to send someone from my
	20	office with you to make dang sure we get them back
	21	because there's a lot of work involved in these.
-6	22	MR. WHITE: We will just arrange for Ross to
F -8	23	go with them. Is that all right?
	24	THE WITNESS: We have got another person back
	25	kersich-cross-white

T

• =

E

409 WEST 247H STHEET CHEYENNE WY 82001 (307) 635 8260

FRONTIER REPORTING SERVICE

201 MIDAEST BUILDING CASPER WY 82601 (307) 237 1493

	11 at 1 at 1 at 1	
	15-4	1474
	1	at the motel, Bill Johnson.
	2	MR. WHITE: Perhaps that would be the thing
	3	to do. We could do it within the afternoon.
, <u>1</u>	4	THE SPECIAL MASTER: Why don't you take this,
	5	Mr. White, and see if this is adequate?
	6	MR. WHITE: If he has them all, we are going
	7	to want them all because we have problems with
	8	the acreage numbers.
	9	MR. ECHOHAWK: Mr. Kersich may need to work
	10	on this type of information tonight or
		MR. WHITE: That's why I was suggesting we
-	11	
لاست	12	do it this afternoon during the trial since he
and the	13	has someone that is not here and we have people
Contraction of the second	14	that are not here and we could just get it done
وسيو	15	and not hold up the trial.
الاستيسو	16	THE WITNESS: Either that or, Chick excuse
Contraction of the	17	me,
2 mill	18	MR. WHITE: Let's go off the record.
	19	(At this time an off-the-
	20	record discussion was held.)
	21	
	22	
C	23	
E	nd 15 24	* * * *
Georg E	25	
-		kersich-cross-white
		403 WEST 24TH STHEET FRONTIER REPORTING SERVICE 201 M DWEST BURD 16 CHEVENNE, WY 82001 13071 635 6280 '3071 237 1493

	· ·	
	16-1-LM-CR	
		1475
2-3		
3	1	Q (By Mr. White) Now, are those all the tabulations
	2	for your entire
	3	A There's North Crowheart, South Crowheart, Owl
0	4	Creek, Riverton East, Arapahoe and Big Horn
-	5	Flats,
	6	THE SPECIAL MASTER: Six of them?
Constant of the second s	7	THE WITNESS: Those are all and
Comes of	8	THE SPECIAL MASTER: All six of
	9	them?
transf.	10	THE WITNESS: originals; yes, sir.
لتنبييه التنبييه		MR. WHITE: Could we take a minute
ويعيدهم	11	
فتعيبتها	12	THE WITNESS: Would it be all right if
berne	13	I left and talked to those guys?
فعنصبها	14	THE SPECIAL MASTER: All right, Take
فليسع	15	five minutes.
فعسبها	16	MR, WHITE: I'm sorry for the interruption,
العصي	17	It will save us a lot of time,
		THE SPECIAL MASTER; That's guite all
للعيلي	18	right,
end .	19	
لتعيي	20	(Brief recess,
end	21	THE SPECIAL MASTER: Shall we go back
end	22	on the record?
e-3	23	MR. ECHOHAWK: I'm still working
era	24	(Off-the-record discussion,
	25	kersich-cross-white
-		PRONTIER REPORTING SERVICE 201 MEMISTRY DAG
C S	l	Christian (2017) (2017) Christian (2017) (201

\$_____

		• • • • • •	
	16-2		
			1476
	1	Q	(By Mr. White) Mr. Kersich, footnote 3 on the
	2		last page
	3	A	Yes.
	4	Q	your standards?
	5	A	Yes.
	6	Q	Discusses 200 foot drain spacing?
	7	А	Yes, it does.
	8	Q	Do you know who you talked to in the Bureau that
	9		approved the 200 foot drain spacing standard?
	10	A	I could look at my notes. I believe we have
			a telephone memorandum on that.
	11	Q	Okay.
	12	A	Okay, this is a memorandum that Bob Taylor.
	13	A	called Jack Crissit appears to be Jack
	14		
	15		Christopherson with the United States Bureau
	16		of Reclamation and I'm sure this is in Denver.
	17		And in there he discusses the depth of drain
	18		and the permeability and a minimum drain spacing.
	19	Q	Could I see that memo, please?
	20	A	Certainly.
	21	Q	Why don't you take it out of your notebook.
-6	22	A	I'll take it out. No problem,
-0	23		MR. ECHOHAWK: Could I see that, Sandy?
			MR. WHITE: Sure.
	24	kers	ich-cross-white
	25		
			E - MENEL BIN CHEES FRONTIER REPORTING SERVICE 201 M CMENT BUILDING CONTREMENDER CONTREMENDER CONTREMENDE
	.	۱ 	

				N. S. D.
	16-3			
3			1477	
	1	Q	(By Mr. White) Do you know Mr. Christopherson's	
	2		position with the Bureau?	
	3	А	I would have to check but I believe he is the	
	4	A		
			drainage engineer now in Denver. The fellow that	
	5		Mr. Winger, I believe retired and I think he	
	6		replaced him so he has a relatively high	
	7		position in that type of work there.	
	8	Q	I see. Your soil depth to barrier is 6 feet in	
	9		your standards?	
	10	A	That's correct.	
	11	Q	Isn't it true that your memorandum, which you've	
	12		kindly furnished me a copy with, indicates that	
	13		the Bureau uses depth to barrier of 8 feet which	
	14		in some cases was relaxed to 6 feet?	
	15	A	That's correct.	
	16		MR. WHITE: Here's your memo back.	
	17	Q	(By Mr. White) Why then did you go to 6 feet	
	18		rather than 8 feet in the next standard soil	
			depth to barrier?	
	19	А	Because the depth of barrier is also a function	
	20		of hydraulic conductivity and if you have the	
-89	21			
-8	22		barrier located close to the surface and have a	
-6	23		real high conductivity, like you might have in	
	24		loamy sand or a texture of this type, it is	
	25	kers	ich-cross-white	
	· · · / · · · · · · · · · · · · · · · ·		4 19 WEST 24THOSTHEET FRONTIER REPORTING SERVICE 201 MDWEST 9 JULY 2 CHEENAL WE B2101 307 + 15 9280	
	ļ		(3)7 237 433	التمز

*/

16-4	
	1478
1	possible to design drains with spaces in excess
2	of 200 feet. Now the initial classification
3	work, you're trying to establish land which
4	you are developing arable base. So you look
5	at this and you say, if it has drainage barriers
6	less than the depth of 6 feet as an average
7	throughout the parcels, you'd throw it out.
8	If it has a hydraulic conductivity of less than
9	a tenth of the weighted average of the material
10	above the barrier, you automatically throw it
11	out. But when you get to the final one, then
12	at this point in time, you go ahead and say okay,
13	I've got a hydraulic conductivity of this, I've
14	got a depth to barrier of that, what would my
15	drain spacing be, and it would come out greater
16	than 200 feet, you would leave it in knowing
17	that the agricultural engineer is getting the
18	same information you have, the hydraulic
19	conductivities, the deep hole logs, the logs
20	of any 10 foot hole, for example, in that area
21	or, less and he would actually design the drain.
22	And as a consequence, you talk about economics.
23	Here we've got economics involved again. And
· 24	you don't know what system he puts on which will
25	kersich-cross-white

16-4

409 VASE 24TH SPEET CHEERE WE 82001 1307-0, 14 8280

201 MOWEST B - (DAG CASPER, WY 4, 603 - 3071 217 1434 · . *

3			1479
3			
3	1		decide the eventual size of drains anyway
4	2		around the space because of the deep percolation
5	3		loss and some of the other things, so you're
a	4		giving the data to the engineers saying these
1	5		lands can at least meet this minimum criteria.
	6		But you have to look at it and drain it, predicated
9 7			on the type of system that you put on.
5	7	0	I think I understand. You used the 6 foot even
- -	8	Q	
	9		though the Bureau said 8 but you gave the data
	10		THE WITNESS: Well, wait a minute.
.	11		THE SPECIAL MASTER: The Bureau said
	12		6 to 8.
	13		MR. WHITE: Wait, wait.
	14	Q.	(By Mr. White) Would you read what it says there?
فغ	15	A	I'll read it in the record.
	16	Q	Okay.
et Et	17	A	A depth to barrier 8 foot which in some cases is
	18		relaxed to 6 feet.
et#	19	Q	Okay. And you used the 6 foot depth but you
4	20		gave enough information to the agricultural
	21		engineer so he could determine whether or not
- -			the depth to barrier should be greater, is that
- -	22		correct? Was that
•	23	•	
•	24	A	The : depth to barrier should be greater or
4	25	kers	ich-cross-white
🐴 ,			

and the second second

F

Þ

the de de de

<u>An An An An</u>

8

4. 4. 4. 4

Ţ

9 9

€× €×

67 67

6ª

Ģ

16-5

•••

7

•.

and the second sec

4 29 558 58 29 89 89 58 58 58 2018 58 58 58 58 58 59 59 59 5 12 5 59 58 58 5 FRONTIER REPORTING SERVICE 201 MONEST BUILDING CASHER, ACREDIT 1906/237/1443

, <u></u>		1480
1	what the most important thing	, here is the
2	spacing of the drains.	
3	Q Okay.	
4	A So this is what you do, is you we	ork with him
5	many times and he eventually com	nes out with an
6	irrigation schedule which determ	nines about how
7	much water the drains are going	to have to
8	function with or which are going	g to be a function
9	of drains and knowing that he ca	an determine
10	high drain spacing. Determining	y his drain
11	spacing, he determines the cost	of his drainage.
12	Knowing the cost of his drainage	e, he works that
. 13	in the cost of his system. At t	that point in
14	time, if the that cost when i	it is added to
15	the other costs, if it exceeds	the economic
15	returns, you don't worry about d	drains because
	you don't have a project. You	just discard
17	those lands.	
18	Q In any event	
19	A It is an iterative procedure bas	sically.
20	Q In any event, you did not include	de any land
21	within your arable land base wh	-
22	to barrier less than 6 feet, is	-
23	A There are distances in there wh	-
24	kersich-cross-white	jou zznu
25		

.

The second state of the second states of the second

۰.

-	16-7	
		1481
		where there's rock with a probe and you hit
	1	
	2	it at 68 inches or 66 inches, you go over
-	3	here a few feet and you're down 11 feet to
Service State	4	barrier. Yes, you do include those, under-
2-3	5	standing that when you design your drains,
Contraction of the second	6	you'd design them to go through the rock. You
	7	develop a gravel envelope around them and the
-	8	drains function. You might have there is no
		way to assure that every piece is below 6 feet.
المعصيها	9	Many times there is because you go 30 feet and
لتعصيها	10	
	11	not hit anything.
	12	THE WITNESS: Can I put this away now?
مستعيد	13	MR. WHITE: Yeah.
هيني	14	Q (By Mr. White) As I recall, you did some soil
-	15	classification work on the Crow Reservation, is
فليتشبيها	16	that correct?
	17	A Yes, HKM did.
سا	18	Q Let me hand you what has been marked for identifi-
معطينه	19	cation as SK-7 and ask you if that isn't the
	20	soil classification standard which you used for
Contraction of the second	20	the Crow Reservation?
		A Again, without going back and checking, I would
-	22	have to check against my copies.
-	23	
-	24	Q You don't know whether these are the standards
0	25	kersich-cross-white
6		4 20 WEST 24 to Viola 1 FRONTIER REPORTING SERVICE 201 MOWEST BUILDING CASTER WERE 24 CONTRACT CONTRACT OF CONTRACT.
		(307) 237 (49) (307) 237 (49)

and a second process of the second

7,

16-8				
			1482	2
	1		you used in the Crow Reservation?	
	2	A	Well, I see nothing on here that says that they	
	3		are other than your word and I'm not disputing	
	4		your word, but I'm very cautious.	
	5	Q	Okay, do you recall whether or not the soil	
			depth to barrier which you used in the Crow	
	6		Reservation was in fact a 20 foot minimum for	
	7		Class 1?	
	8		VAUDD LI	
	9	A	That's right. And I've got to explain something	
	10		if I might, Mr. Counselor.	
	11	Q	Sure.	
	12	A	These are old standards. The work is not done.	
	13		The drainage that we were working at is much	
	14		different than what we are talking about now.	
	15		As a matter of fact, right now within our own	
	16		office we've been discussing the possibility of	
	17		going back and redrilling this area and reviewing	đ
			the internal drainage on the basis of the work	
	18		that we did with respect to the Wind River. (sic)	
	19	~	But you did use the 20 foot minimum depth to	
	20	Q	-	
	21	_	barrier for Class 1 lands?	
	22	A	At that time.	
	23	Q	At that time?	
	24	A	At that time.	
	25	ker	sich-cross-white	
••		••••	RECEIVED AND THE PRONTIER REPORTING SERVICE	· · · ·
			i system i series i s Series i series i s Series i series i ser	

3.1

	16-9		
			1483
-3			
	1	Q And 15 foot minimum for Class	2 lands?
······································	2	THE SPECIAL MASTER:	At what time was
	3	that? What time?	
	4	Q (By Mr. White) What time?	
	5	A I'm going to have to check bac	·k.
	6	THE SPECIAL MASTER:	
		THE WITNESS: About	· · · · · · · · · · · · · · · · · · ·
	7		
-	8		
े. स्टब्स् स्	9		
فعيشه	10		
	11		
لعجنه	12		
	13		
وسيلي	14		
L	15		
L	16		
مل	17		
معلم	18	* * * *	
Ľ	19		
L	20		
	21		
	22		
C	23		
	24		
	- 25	kersich-cross-white	
-		REIBIGI-CLOBBOWALCO ANEWST24065084 FRONTIEB REPORT CHEMIST24065084 FRONTIEB REPORT CHEMIST24065084	INO SERVICE 201 MONIST BACKING
Ĉ			DIO SERVICE 201 MIGANIST BUCCHG CASPER ANT 826/1 (307) 237 1433
-		•	

		,	
9 17	7-1	MR-CB	1404
۰ <i>،</i>			
5		1	THE SPECIAL MASTER: Are you reasonably
ł		2	sure this was probably the one you used on the Crow
l		3	Reservation?
		4	THE WITNESS: I would still like to look,
		5	if I might.
		6	THE SPECIAL MASTER: Where is CroweReser-
		7	vation, Montana?
		8	THE WITNESS: Yes, sir.
			(Brief pause.)
		9	
		10	Q (By Mr. White) Mr. Kersich, in Exhibit 36, your
		11	land classification standards for the Wind River
		12	Indian Reservation, do you make any provision
		13	for lime?
		14	A Well, we have a We got a provision for total
		15	salts, yes.
		16	Q And in what page is that?
		17	A Under salinity.
		18	Q And that's where lime would be included within
		19	your standards?
		20	A I'm not sure of that. I'd have to check that
		21	over with one of my soils scientists or one of
		 22	my land classifiers.
			Q Okay. We'll come back to that then.
		23	
		24	THE SPECIAL MASTER: Let me ask a question. kersich-cross-white
		25	
			TRONTIER REPORTING SERVICE 201 MCMAST 6 LTG Construction of the service of the s

ŝ

₩/ (2);

	· · · · ·	
		1485
*5	1	What's 4 MMHOS/CM?
	2	THE WITNESS: Millimoves, it's a measurement
	3	of electrical current.
×:)	4	THE SPECIAL MASTER: MHO, millimoves.
•• ;	5	THE WITNESS: Millimoves is a reciprocal
	6	of ohms, as I remember.
	7	THE SPECIAL MASTER: That's right, but
-	8	what is the OS on the end, or is that whole
9 23	9	thing millimoves?
	10	THE WITNESS: That's correct, the whole thing.
	11	THE SPECIAL MASTER: What's the CM?
	12	THE WITNESS: Per centimeter.
	13	THE SPECIAL MASTER: Issee. EC?
	14	THE WITNESS: Electroconductivity.
	15	THE SPECIAL MASTER: Okay, thank you.
	16	Q (By Mr. White) How did you consider any potential
	17	deficiencies, problems associated with erosion
	18	in your standards?
	19	A Erosion now from surface drainage, are you
	20	talking about?
24	21	Q Yes.
	22	A It's considered somewhat in slope, that's built
Be	23	in. On our two percent slope you're going to
	24	have minimal erosion problems.
	25	kersich-cross-white
		They ALST SATE STOLET FRONTIER REPORTING SERVICE 201 ADALST BULLING CONTRACTOR STOLET CASES OF CONTRACT STOLET
		(107) 717 1413

17-3 1485 1 It's also considered under surface drainage, and if there were any erosion problems, they're pretty much judged by the land classifier in his mind, and they're reported on the log or the tract. 6 0 7 of erosion deficiencies that you may encounter with a particular parcel of land? 8 I'm not sure I understand that guestion, Mr. 9 A 10 Well, if you plant a crop every year, aren't you going to have a greater problem with erosion that if you have alfalfa or hay that stays there year round? 11 0 12 Bow was that factored into your slope determination or your slope standards? 13 A 140 How was that factored in your slope standards, but in the cultivation pattern and cultural practice that the farmer's going to have within the area, he's going to concern himself with erosion. 14 Also, the On-farm system is going to have an awful lot to do with any erosion from the water Kersich-cross-white		·····``			
1 It's also considered under surface drainage, 2 and if there were any erosion problems, they're 3 pretty much judged by the land classifier in his 4 mind, and they're reported on the log or the 5 tract. 6 0 7 of erosion deficiencies that you may encounter 8 with a particular parcel of land? 9 A 9 A 10 White. 10 White. 11 0 12 going to have a greater problem with erosion 13 that if you plant a crop every year, aren't you 10 white. 11 0 12 going to have a greater problem with erosion 13 that if you have alfalfa or hay that stays there 14 year round? 15 A 16 How was that factored into your slope determination 17 or your slope standards? 18 I don!t think it's factored in your slope standards, 19 but in the cultivation pattern and cultural 10 practice that the farmer's			•••		
2 and if there were any erosion problems, they're 3 pretty much judged by the land classifier in his 4 mind, and they're reported on the log or the 5 tract. 6 0 7 of erosion deficiencies that you may encounter 8 with a particular parcel of land? 9 A 9 A 10 white. 10 White. 11 Q 12 going to have a greater problem with erosion 13 that if you have alfalfa or hay that stays there 14 year round? 15 A 16 Q 17 how was that factored into your slope determination 17 or your slope standards? 18 A I don't think it's factored in your slope standards, 19 but in the cultivation pattern and cultural 10 practice that the farmer's going to have within 21 the area, he's going to concern himself with 22 Also, the on-farm system is going to have 23 Also, the on-farm system is going to have	-5	17-3	······································		1486
2 and if there were any erosion problems, they're 3 pretty much judged by the land classifier in his 4 mind, and they're reported on the log or the 5 tract. 6 0 7 of erosion deficiencies that you may encounter 8 with a particular parcel of land? 9 A 9 A 10 white. 10 White. 11 Q 12 going to have a greater problem with erosion 13 that if you have alfalfa or hay that stays there 14 year round? 15 A 16 Q 17 how was that factored into your slope determination 17 or your slope standards? 18 A I don't think it's factored in your slope standards, 19 but in the cultivation pattern and cultural 10 practice that the farmer's going to have within 21 the area, he's going to concern himself with 22 Also, the on-farm system is going to have 23 Also, the on-farm system is going to have	5				
3 pretty much judged by the land classifier in his 4 mind, and they're reported on the log or the 5 tract. 6 2 7 of erosion deficiencies that you may encounter 8 with a particular parcel of land? 8 I'm hot sure I understand that question, Mr. 10 White. 11 Q 12 going to have a greater problem with erosion 13 that if you have alfalfa or hay that stays there 14 year round? 15 A 16 Q 17 how was that factored into your slope determination 18 A 19 but in the cultivation pattern and cultural 10 practice that the farmer's going to have within 11 the area, he's going to concern himself with 17 Also, the on-farm system is going to have 18 A I don't to do with any erosion from the water 20 practice that the farmer's going to have 21 the area, he's going to concern himself with 22 erosion. 23 Also, the on-farm		1		It's also considered under surface drain	nage,
4 mind, and they're reported on the log or the 5 tract. 6 0 7 of erosion deficiencies that you may encounter 8 with a particular parcel of land? 8 with a particular parcel of land? 9 A 10 white. 10 Well, if you plant a crop every year, aren't you 12 going to have a greater problem with erosion 13 that if you have alfalfa or hay that stays there 14 year round? 15 A 16 Q 17 or your slope standards? 18 A 19 but in the cultivation pattern and cultural 19 practice that the farmer's going to have within 20 practice that the farmer's going to have within 21 the area, he's going to concern himself with 22 Also, the on-farm system is going to have 23 Also, the on-farm system is going to have 24 an awful lot to do with any erosion from the water 25 WENNERMENT		2		and if there were any erosion problems, they	're
4 mind, and they're reported on the log or the 5 tract. 6 0 7 of erosion deficiencies that you may encounter 8 with a particular parcel of land? 8 with a particular parcel of land? 9 A 10 white. 10 Well, if you plant a crop every year, aren't you 12 going to have a greater problem with erosion 13 that if you have alfalfa or hay that stays there 14 year round? 15 A 16 Q 17 or your slope standards? 18 A 19 but in the cultivation pattern and cultural 19 practice that the farmer's going to have within 20 practice that the farmer's going to have within 21 the area, he's going to concern himself with 22 Also, the on-farm system is going to have 23 Also, the on-farm system is going to have 24 an awful lot to do with any erosion from the water 25 WENNERMENT		3		pretty much judged by the land classifier in	his
 6 Q What part does crop selection play in the type of erosion deficiencies that you may encounter with a particular parcel of land? 8 A I'm not sure I understand that question, Mr. 9 A I'm not sure I understand that question, Mr. 10 White. 11 Q Well, if you plant a crop every year, aren't you going to have a greater problem with erosion that if you have alfalfa or hay that stays there year round? 13 that if you have alfalfa or hay that stays there year round? 14 year round? 15 A Certainly. 16 Q How was that factored into your slope determination or your slope standards? 18 A I don't think it's factored in your slope standards, but in the cultivation pattern and cultural practice that the farmer's going to have within the area, he's going to concern himself with erosion. 23 Also, the on-farm system is going to have an awful lot to do with any erosion from the water kersich-cross-white 		4		mind, and they're reported on the log or the	
6 0 What part does crop selection play in the type 7 of erosion deficiencies that you may encounter 8 with a particular parcel of land? 8 I'm not sure I understand that question, Mr. 10 White. 11 Q 12 going to have a greater problem with erosion 13 that if you have alfalfa or hay that stays there 14 year round? 15 A 16 Q 17 or your slope standards? 18 A 19 but in the cultivation pattern and cultural 10 practice that the farmer's going to have within 12 consion. 13 asso, the on-farm system is going to have 14 an awful lot to do with any erosion from the water 17 kersich-cross-white		5		tract.	
7 of erosion deficiencies that you may encounter 8 with a particular parcel of land? 9 A I'm not sure I understand that question, Mr. 10 White. 11 Q Well, if you plant a crop every year, aren't you 12 going to have a greater problem with erosion 13 that if you have alfalfa or hay that stays there 14 year round? 15 A Certainly. 16 Q How was that factored into your slope determination 17 or your slope standards? 18 A I don't think it's factored in your slope standards, 19 but in the cultivation pattern and cultural 20 practice that the farmer's going to have within 21 the area, he's going to concern himself with 22 Also, the on-farm system is going to have 23 Also, the on-farm system is going to have 24 an awful lot to do with any erosion from the water 25 kersich-cross-white		_	Q	What part does crop selection play in the ty	ре
8 with a particular parcel of land? 9 A I'm not sure I understand that question, Mr. 10 White. 11 Q Well, if you plant a crop every year, aren't you going to have a greater problem with erosion that if you have alfalfa or hay that stays there year round? 13 that if you have alfalfa or hay that stays there year round? 14 year round? 15 A 16 Q 17 or your slope standards? 18 A 19 but in the cultivation pattern and cultural practice that the farmer's going to have within the area, he's going to concern himself with erosion. 23 Also, the on-farm system is going to have an awful lot to do with any erosion from the water kersich-cross-white		-			
 A I'm not sure I understand that question, Mr. White. Well, if you plant a crop every year, aren't you going to have a greater problem with erosion that if you have alfalfa or hay that stays there year round? A Certainly. A Certainly. How was that factored into your slope determination or your slope standards? A I don't think it's factored in your slope standards, but in the cultivation pattern and cultural practice that the farmer's going to have within the area, he's going to concern himself with erosion. Also, the on-farm system is going to have an awful lot to do with any erosion from the water kersich-cross-white 			1		
10 White. 11 Q Well, if you plant a crop every year, aren't you 12 going to have a greater problem with erosion 13 that if you have alfalfa or hay that stays there 14 year round? 15 A 16 Q 17 or your slope standards? 18 A 19 but in the cultivation pattern and cultural 10 practice that the farmer's going to have within 21 the area, he's going to concern himself with 22 erosion. 23 Also, the on-farm system is going to have 24 an awful lot to do with any erosion from the water 25 Kersich-cross-white		8			
11 Q Well, if you plant a crop every year, aren't you 12 going to have a greater problem with erosion 13 that if you have alfalfa or hay that stays there 14 year round? 15 A 16 Q 17 No 18 A 19 but in the cultivation pattern and cultural 10 practice that the farmer's going to have within 21 the area, he's going to concern himself with 22 Also, the on-farm system is going to have 23 Also, the on-farm system is going to have 24 an awful lot to do with any erosion from the water 25 Kersich-cross-white		9	А	I'm not sure I understand that question, Mr.	
12 going to have a greater problem with erosion 13 that if you have alfalfa or hay that stays there 14 year round? 15 A Certainly. 16 Q How was that factored into your slope determination 17 or your slope standards? 18 A I don't think it's factored in your slope standards, 19 but in the cultivation pattern and cultural 20 practice that the farmer's going to have within 21 the area, he's going to concern himself with 22 erosion. 23 Also, the on-farm system is going to have 24 an awful lot to do with any erosion from the water 25 kersich-cross-white	فيعن	10		White.	
13 that if you have alfalfa or hay that stays there 14 year round? 15 A Certainly. 16 Q How was that factored into your slope determination 17 or your slope standards? 18 A I don't think it's factored in your slope standards, 19 but in the cultivation pattern and cultural 20 practice that the farmer's going to have within 21 the area, he's going to concern himself with 22 erosion. 23 Also, the on-farm system is going to have 24 an awful lot to do with any erosion from the water 25 kersich-cross-white	فنتوع	11	Q	Well, if you plant a crop every year, aren't	you
14 year round? 15 A Certainly. 16 Q How was that factored into your slope determination or your slope standards? 17 or your slope standards? 18 A I don't think it's factored in your slope standards, but in the cultivation pattern and cultural practice that the farmer's going to have within 20 practice that the farmer's going to have within the area, he's going to concern himself with erosion. 21 the area, he's going to concern himself with an awful lot to do with any erosion from the water kersich-cross-white	الالاست. الالاست	12	}	going to have a greater problem with erosion	ł
15 A Certainly. 16 Q How was that factored into your slope determination or your slope standards? 17 or your slope standards? 18 A I don't think it's factored in your slope standards, but in the cultivation pattern and cultural practice that the farmer's going to have within 20 practice that the farmer's going to have within 21 the area, he's going to concern himself with erosion. 23 Also, the on-farm system is going to have an awful lot to do with any erosion from the water 24 an awful lot to do with any erosion from the water 25 TRONTIER REPORTING SERVICE	میں	13		that if you have alfalfa or hay that stays t	here
16 Q How was that factored into your slope determination 17 or your slope standards? 18 A I don't think it's factored in your slope standards, 19 but in the cultivation pattern and cultural 19 but in the cultivation pattern and cultural 20 practice that the farmer's going to have within 21 the area, he's going to concern himself with 22 erosion. 23 Also, the on-farm system is going to have 24 an awful lot to do with any erosion from the water 25 Kersich-cross-white		14		year round?	
17 or your slope standards? 18 A I don't think it's factored in your slope standards, 19 but in the cultivation pattern and cultural 19 practice that the farmer's going to have within 20 practice that the farmer's going to have within 21 the area, he's going to concern himself with 22 erosion. 23 Also, the on-farm system is going to have 24 an awful lot to do with any erosion from the water 25 kersich-cross-white		15	A	Certainly.	
18 A I don't think it's factored in your slope standards, 19 but in the cultivation pattern and cultural 20 practice that the farmer's going to have within 21 the area, he's going to concern himself with 22 erosion. 23 Also, the on-farm system is going to have 24 an awful lot to do with any erosion from the water 25 Kersich-cross-white		16	Q	How was that factored into your slope determ	ination
18 A I don't think it's factored in your slope standards, 19 but in the cultivation pattern and cultural 20 practice that the farmer's going to have within 21 the area, he's going to concern himself with 22 erosion. 23 Also, the on-farm system is going to have 24 an awful lot to do with any erosion from the water 25 Kersich-cross-white		17		or your slope standards?	
19 but in the cultivation pattern and cultural 20 practice that the farmer's going to have within 21 the area, he's going to concern himself with 22 erosion. 23 Also, the on-farm system is going to have 24 an awful lot to do with any erosion from the water 25 kersich-cross-white	مرور الغومية		2	T don't think it's factored in your slope of	andarde
20 practice that the farmer's going to have within 21 the area, he's going to concern himself with 22 erosion. 23 Also, the on-farm system is going to have 24 an awful lot to do with any erosion from the water 25 kersich-cross-white	teres and the second		, n		-midulus p
21 the area, he's going to concern himself with 22 erosion. 23 Also, the on-farm system is going to have 24 an awful lot to do with any erosion from the water 25 kersich-cross-white		-			
22 erosion. 23 Also, the on-farm system is going to have 24 an awful lot to do with any erosion from the water 25 kersich-cross-white					
23 Also, the on-farm system is going to have 23 an awful lot to do with any erosion from the water 24 an awful lot to do with any erosion from the water 25 kersich-cross-white ***********************************	and and a second se				1
24 an awful lot to do with any erosion from the water 25 kersich-cross-white 409 WEST 24TH SHEET PRONTIER REPORTING SERVICE 201 MOAEST BLACKS 201 MOAEST BLACKS		22			
25 kersich-cross-white 409 WEST 24TH STREET CHEVENIE WY 82001 1020 635 9 4280 CASPER DEPORTING SERVICE 201 MOAEST BLACKS CASPER DEPORT		23			
409 WEST 24TH STREET CHEVENIE WY 82001 10276 55 9280		24		an awful lot to do with any erosion from the	e water
CATEGORY BY B2001 201 MONEST BULEVO 13021635 H280 CASEGO CASEGO A 201 MONEST BULEVO	enter a	25	kers	sich-cross-white	
				CHEARING MA REDOL	201 M.DALEST BUILDING
	J-3		1	13071 635 9280	

-		• • • •	
-3 17-4			1487
	1		applied by the farmer, of course.
4	2	Q	I guess I must not have asked the question
43 	3		the way I meant to. How is erosion taken care
4	4		of in your standards?
et.	5	A	They type of erosion that I understand you're
	6		discussing about through cultivation is controlled
	_		to a large extent by the cultural practices re-
~	7		
*	8		quired for the crop, required for the area it
ي. چير	9		is.
9 4 2	10		I don't see it as a big issue here because
	11		that's a cultural practice or can be handled by
الي. العد	12		cultural practices rather than pure land class-
فعن	13		ification.
الطب	14	Q	That part is systems design rather than the land
	15		classification?
	16	A	Part of the selection of the cropping pattern,
	17	ļ	allowing for crops to be grown in areas like that,
	18		but as we both know, the most important thing is
والعيد	19		the management factor that's factored in the
	20		handling of those types of areas within the project.
	21	Q	What do you mean "The management factor"?
-0	22	A	Well, we all know that farmers have to exhibit
-0	23		good management to return good yields. That means
	24		they have to plant the proper crops at the proper
	25	ke	rsich-cross-white
	4J		THE AREA STATEMENT FRONTIER REPORTING SERVICE

. .

E

নান হয়ের কর্মত হার্মার চার্বেরা কর্মার্ম্বর ব্যক্তি মন্দ্রার্ম্বর ব্যক্তি

FRONTIER REPORTING SERVICE

and the second secon

١,

.

Ÿ,

201 MOWEST BUILD 13 CASHER, MY REGOT (307) 237 1453

7-5		1488
	1	times; they have to harvest at the proper time,
	2	they have to minimize soil loss, things of this
	3	nature.
	4	The SCS, as I recall, has been doing an
	5	awful lot of work providing that type of manage-
	6	ment to minimizing top soil erosion and to
	7	maximize returns.
	8	Q Did you do any flood plan analysis as part of
	9	your land classification work?
	10	A No, sir, we did not. Most of the lands that we
	11	examined were in a relatively small drainage
	12	where the lands we actually declared arable were
	13	above, reasonably above any of the major
	14	drainages.
	15	Q Whatsconsideration, if any, did you give to
	16	varying patterns of air drainage?
	17	A Air drainage?
	18	Q Air drainage within the Reservation.
	19	A I don't recall that we did much in that respect.
	20	Q Okay.
	21	(Brief pause.)
	22	Q And Mr. Kersich, during your deposition, you
	23	indicated that, I believe the facts and data
	24	upon which you based your conclusions as to arable
	25	kersich-cross-white
		A CALL THE THEFT FRONTIER REPORTING SERVICE

-

rrrrr

السين

ليست

and the

للحصير and t 1000

300 <u>a</u>#8

200

 G. A. ENTL, The Unit!
 A. Fridat, The King Content of the State
 G. F. Fridat, State

2435 842348658 86 - 5 453 1 ASPEH 245 86 - 5 153 2 3 12 2 4 7 3 3 5 6

3 1 1

3				
3 17-6				1489
3	1		land were the chemical analyses that you di	d,
*3	2		the drainage tests that you did, the H.K.M.	
-7	3		soil logs and the tentative classifications	
→	4		or observations by your field classifier;	
;)	5		that correct?	
	6	A	Plus my own personal reviews in checking s	ome of
19 19			the work, yes.	
** **	7		one worky yes.	
6	8	Q	Four things; chemical analyses, drainage t	ests,
<i>1</i>	9		soil logs, H.K.M. soil logs; tentative cla	ssi-
6	10		fications; is that correct?	
19 19	11	A	Aerial maps, the aerial photographs that h	ave been
ය ජ	12		prepared, a review of the information on t	hose
	13		photographs and a field review of the info	rmation
E)	14		testing some of the land classification ju	dgments.
	15	Q	Did you bring your volume of township phot	0-
	16		graphs with you?	
	17	A	My workbook?	
	18	Q	Yes, sir.	
R	19	A	Can I put these standards away for a minut	:e?
	20	Q	You might as well leave them Out; we may r	refer
2) 43	21		to them. You don't need to have them righ	it in
-2)	22		front of you.	
ø			THE SPECIAL MASTER: You're not offer	ina
4	23		this yet?	7
4	24			
	25	ker	sich-cross-white	
*			209 ACM 2416 STREET FRONTIER REPORTING SERVICE CREEK VE A2001 (3021 035 3200	201 MDWEST BUILDING CASEER WY 82801 1307/237.1493

×.

17-7	1490
1	MR. WHITE: No, sir, Your Honor.
2	MR. ECHOHAWK: Your Honor, at this time,
3	if we are going to proceed to another area, if I
4	might, I'd like to inquire on the record where Mr.
5	White received this exhibit that he entitled WRIR SK-7.
6	MR. WHITE: I'm under no obligation to
7	explain that, Your Honor.
8	MR. ECHOHAWK: I understand
9	THE SPECIAL MASTER: But you don't want to
10	do that at this stage of the hearing. We have been so
11	excellent in divulging the information and complying
12	with the letter in good spirit of counselling. Why do
13	you not wish to let him know where this SK-7 orginates
14	from?
15	MR. WHITE: It may not be the set of standards.
16	I think Mr. Kersich ought to be given the opportunity
17	THE SPECIAL MASTER: Mr. Kersich was asked,
18	were these your criteria used on the Crow Reservation,
19	on the work you did up there, and you said I'm not
20	going to answer that without checking my records up
21	there.
22	MR. WHITE: Once Mr. Kersich is able to
23	respond, if he indicates no, they're not his standards,
24	then I will either pull them or explain where I got them.
25	kersich-cross-white
	AUD WEST 2176 1 HELL CHETPSE WE BOOD LIGTEDSERVE BOOD LIGTEDSERVE BOOD CASER WE BOOD CASER WE BOOD
· · · · · · · · · · · · · · · · · · ·	(307) 237.1493

------- م م ال من جهد ميمبوسماريد اين ا

ana menangan se

Fall

.

9

3

-3 **....**)

Ċ

÷

3

3 1

الع

لک

ک

J

ور

Ì ک

ı

ſ

ير ۲

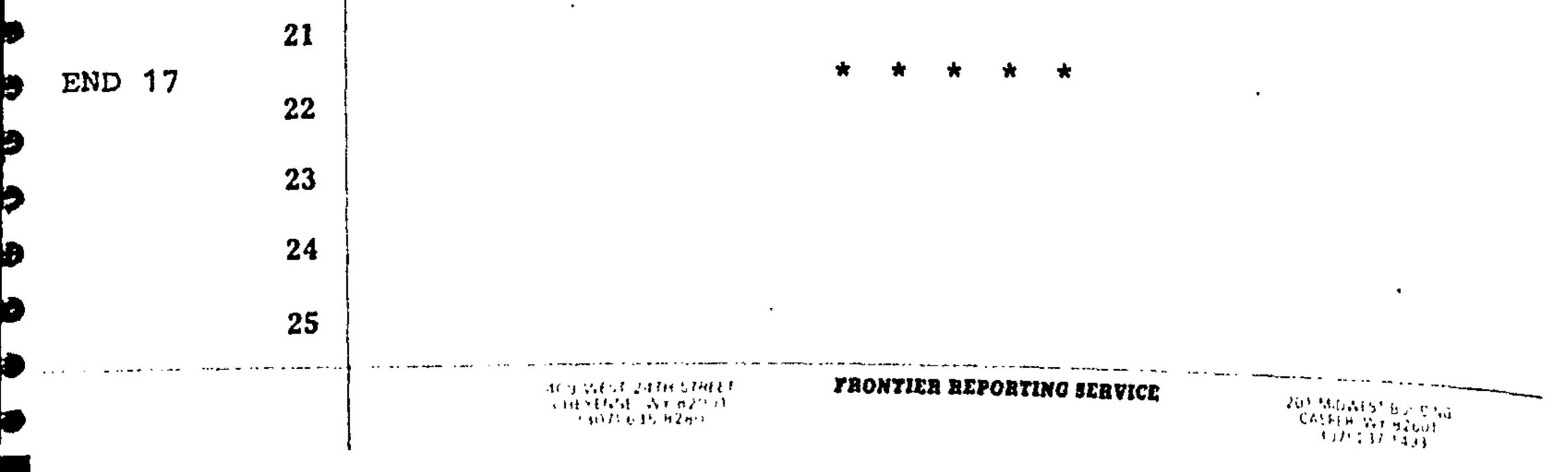
R Ð

> Ð

Đ E. 2

17-0		
17-8		1491
	1	MR. ECHOHAWK: The reason I'm concerned,
	2	Your Honor, is Mr. White has represented that these
	3	were the standards used on the Crow Indian Reservation
	4	by work done by H.K.M., which would be contained
	5	within a preliminary report which has not been accepted
	6	by the United States and which is of a confidential
	7	matter. We're very concerned of the confidential
	8	information, that is not yet finalized by the United
	9	States, has somehow been violated.
	10	MR. WHITE: Your Honor, the point is I made
	11	no representation, I asked him if those were the
	12	standards.
	13	THE SPECIAL MASTER: We'll cross that bridge
	14	when we get to it. If you're going to object to its
	15	admissibility on the breach of some confidential client/
	16	attorney relationship
	17	MR. WHITE: In addition to that particular
	18	concern, we do have other concerns which relate
	19	THE SPECIAL MASTER: We'll cross them when
	20	the time comes, but we'll wait for the answer from you
	21	to that question.
	22	MR. WHITE: I was glad that Mr. Echohawk
	23	made it on the record, as to the source.
	24	THE SPECIAL MASTER: You gentlemen are getting
	25	kersich-cross-white
·		4/2 WEST 2 THE STREET TRONTIER REPORTING SERVICE 201 MOWEST BUILDING ENERGENESS BUILDING SUPERSTREET CASPER STREET
		5071635 8242 (307) 237 1493

*		
17-9		1492
	1	tough all of a sudden.
	2	Okay, next point on these maps.
	3	Q (By Mr. White) Would you turn, please
	4	Would you turn, please to Township 2 North, 1 East.
	5	A 2 North, 1 East.
	6	Q Right, You might put a finger in another Town-
	7	ship, 2 North, 1 West.
	8	A Okay, they're both here.
	9	THE SPECIAL MASTER: Mr. White, are these
	10	touching on earlier specific
	11	MR. WHITE: No, sir, that is a new area of
	12	inquiry.
	13	THE SPECIAL MASTER: Thank you.
	14	Q (By Mr. White) You should have 2 North, 1 West.
	15	A Right there.
	16	Q Okay. I refer you to that portion of land that
	17	has 729 in parenthesis. Is that 729 acres?
	18	A Yes.
	19	
	20	



¥

18-1	V-е	1.493
	. 1	MR. WHITE: Now we can turn this around so
	2	more people can see it.
	3	THE SPECIAL MASTER: They can come up. Come
	4	up and have a look, whoever has an interest.
	5	Q (By Mr. White) Is that land that you classified
	6	as Class 3 for sprinkler?
	7	A. Yes.
	8	Q Could you point out where that land is located
	9	on one of your area maps?
	10	A. Two North, 1 West what particular portion of
	11	that area?
	12	Q Well, it's the area that I asked you about,
	13	729 acres.
	14	A It would be the upper right-hand corner (indicating).
	15	Q It's in this area right here (indicating)?
	16	A. Right here, sir (indicating).
	17	Q Would you please explain how you determined the
	18	depth to barrier of six feet for that 729 acres?
	19	A Deep hole 103 shows 11 feet to sandstone.
	20	Q And is that within the acreage outlined?
	21	A. It's right next to it.
	22	Q Well, it's a couple miles away from portions of it,
	23	isn't it?
_	24	A Yeah, yes, it could be.
	25	kersich - cross - white
		409 WEST 24TH STREET CHEVENNE, WY 82001 1307/ 635 8280 707/ 237 1493

R. 18 34

Ę

1000.00

Ŀ

5

•

•

•

	· · · · · · · · · · · · · · · · · · ·		·		And Harris			
	3	18-2		1494				
		1	0 111	Pare OCT				
		2		th respect to the portion of that 729 acres				
	-9			cated down here in Section 13, what basis did				
		3	yo	you have to say that the depth to barrier for this				
		4	ar	ea was six feet?				
	-	5	A. I	don't see another hole on this sheet, but let				
		6	me	take a look at 2 North and 1 East.				
	-3	7		Here is a Bureau hole just a little distance				
		8	fr	om that that I believe shows about a 14-foot				
Ī		9	de	pth there.				
I		10	Q. Is	that the depth to barrier, or is that the depth				
		11	to	the bottom of the hole?				
		12	A. We	11, at this point in time I'd have to go check				
		13	th	e Bureau log.				
		14	Q. Wo	uld you, please?				
		15	A. I	don't have it here with me.				
		16		THE WITNESS: Do we have those available?				
		17	Ма	y I ask a question off the record?				
	-3	18		MR. WHITE: Off the record.				
	-3	19		(Off-the-record discussion				
		20		THE SPECIAL MASTER: Let's go back on the	•			
		20	re	cord.				
				Mr. White and Mr. Kersich, Mr. White has				
		22						
	-19	23		ked you is that 14 feet the depth to barrier or				
1	ing .	24		that 14 feet to the bottom of the hole, and				
		25	kersich	- cross - white				
ų.	 			409 WEST 24TH STREET FRONTIER REPORTING SERVICE 201 MOWEST BUT DA CHARMA, WY 82001 (307) 635 8280 (425)	G			
11				(JO): 237 1433	*			

<u></u>		
	18-3	1495
	1	I asked what difference is it, and Mr. White I
	2	think said in our discussion, "Well, it could have
	3	gone through the barrier to 14 feet," and I say
	4	to you: Is it possible that those 671 holes you
	5	drilled that you drilled some holes which went through
	6	barrier to bottom without reporting the fact that
-	7	you hit barrier?
	8	THE WITNESS: That's correct. We wouldn't
ang ang	9	if we had had a barrier there, we would have
8	5 10	
		reported the barrier.
	11	THE SPECIAL MASTER: Okay.
200	12	THE WITNESS: And normally that's Bureau
	13	practice also. If they hit something where they
النونية.	14	quit drilling, we would have gone to 30 feet if
	15	there had been nothing there. So would we, for that
	16	matter.
	17	THE SPECIAL MASTER: Take it from there,
	18	Mr. White.
	19	Q (By Mr. White) How close is that hole to the
	20	southern portion of that 729 acres? Isn't it
eti	21	approximately a mile away?
	22	A. It's about a mile, yes. We also have a hole down
P9 F3	23	here, one of our holes, 102, which is ten feet
pđ.	24	deep or 20 feet, excuse me no, wait a minute.
	25	kersich ~ cross - white
F1		ALT WEST 2416 WHEET FRONTIER REPORTING SERVICE 201 MCMAEST 8. CONS CONTINUE AND AND CONSTRUCT CONTINUES I 8. CONS (CASED OF 56 3260)
		4307) 145 8280 1307) 245 8280 1307) 247 1493

Y.

			U.
	• •		
18-4		1496	
1	It's 16 fe	et deep next to a Bureau hole that is	
2			
3	Q. How tur aw	ay is that from the 729-acre parcel?	
4			
5	appears to	me. Would you agree with that? Section	n
6			
7	(indicatin	ng). There's another one up in here	
8	(indicatir	ng). We have another one over in here	
9	(indicatir	ıg).	
	Q. That's at	least three-quarters of a mile away,	
	isn't it?		
	A. Right.		
	Q. How did yo	ou determine that the depth to barrier	
	for that p	parcel was over six feet?	
	A. Frankly, v	ve found nothing in there that showed	
	the barrie	er was less than six feet.	
	Q So the pre	esumption is that the barrier is six	
	feet unles	as you found something to the contrary?	
	THE S	SPECIAL MASTER: His criteria on all of	
	these is a	at least six feet, at least six feet in	
	each of a	11 four instances.	
	MR. I	ECHOHAWK: I would like to inquire	
	whether M	r. White is prepared to prove in his	
	portion of	f the case whether or not there is a	
	kersich - cross	s - white	
		TANTE FRONTIER REPORTING REPUTER	· · ·
		** 452112 FOR	. *
	1 2 3 4 5 6 7	1It's 16 fe220 feet de3Q. How tar aw4A. Well, let'5appears to67, it would7(indicatin8(indicatin9(indicatin10Q. That's at11isn't it?12A. Right.13Q. How did you14for that p15A. Frankly, w16the barrier17Q. So the predict of all18feet unles19THE S20these is a21each of all22MR. 123whether Mar24portion of25kersich - crost	1 It's 16 feet deep next to a Bureau hole that is 2 20 feet deep. 3 0. How fur away is that from the 729-acre parcel? 4 N Well, let's see. That would be Section 7, it 5 appears to me. Would you agree with that? Section 6 7, it would be over in this area right here 7 (indicating). There's another one up in here 8 (indicating). We have another one over in here 9 (indicating). 10 0. That's at least three-quarters of a mile away, 11 isn't it? 12 A. Right. 13 Q. How did you determine that the depth to barrier 14 for that parcel was over six feet? 15 A. Frankly, we found nothing in there that showed 16 the barrier was less than six feet. 17 0. So the presumption is that the barrier is six 18 feet unless you found something to the contrary? 19 THE SPECIAL MASTER: His criteria on all of 20 these is at least six feet, at least six feet in 21 each of all four instances. 22 MR. ECHOHAWK: I would like to inquire 23 wheth

فالمتخذفان

الم المان الما المان الم

9 .			
5	18-5	1497	
<u> </u>			
5	1	problem with the barrier in that particular	
9 9	2	situation.	
5	3	MR. WHITE: Well, Mr. Echohawk will find out	
9	4	when it comes to my portion of the case.	
9	5	MR. ECHOHAWK: I presume that Mr. White is	
æ - 4	6	prepared to do that.	
ಳ ಶೆ	7	THE WITNESS: Could I take a five-minute break?	
9	8	THE SPECIAL MASTER: Let's take a five-	
5		minute break.	
1	9	(Thereupon a five-minute	
MÉ .	10	(recess was taken.	
14 	11		
~~ 14	12		
	13		
	14		
ed	15		
45 	16		
	17		
ed .	18	* * * *	
	19		
	20		
4 4	21		
4	22		
đ			
4	23	· ·	
-6	24		
	25	kersich - cross - white	
न्द न्द		add west same shell' FRONTIER REPORTING SERVICE 201 M CArbit Politika Ghenrade Annologi gebruite 9780	
-			1

19-1	LM-e		1498
	1		THE SPECIAL MASTER: All right. Shall we
	2		begin, ladies and gentlemen.
	3		Mr. White.
	4	Q	(By Mr. White) Mr. Kersich, let's go back now to
	5	•	the 729-acre parcel classified 3 sprinkler in
	6		Section 1, 2, 11, 12, 13 and maybe a little bit
	7		of 14 in Township 2 North, 1 West. Do you have
	. 8		your plate in front of you?
	9	A.	Yes.
	10	Q	Isn't it true that there is no boring hole of
	11		any type within the boundaries of that parcel?
	12	A.	There is a deep hole located within a few hundred
	13		feet, I don't have a scale here, but of that,
-	14		portions of that parcel.
	15	Q	How far away is that deep hole from the southernmost
	16		portion of that parcel in Section 13?
	17	A.	About a mile and a half.
	18	õ	There is no hole whatsoever in that parcel, is that
	19		correct?
	20	A.	There is a Bureau hole that's located within a half
			m^{2}] = eff that memory and least should be the set of the se

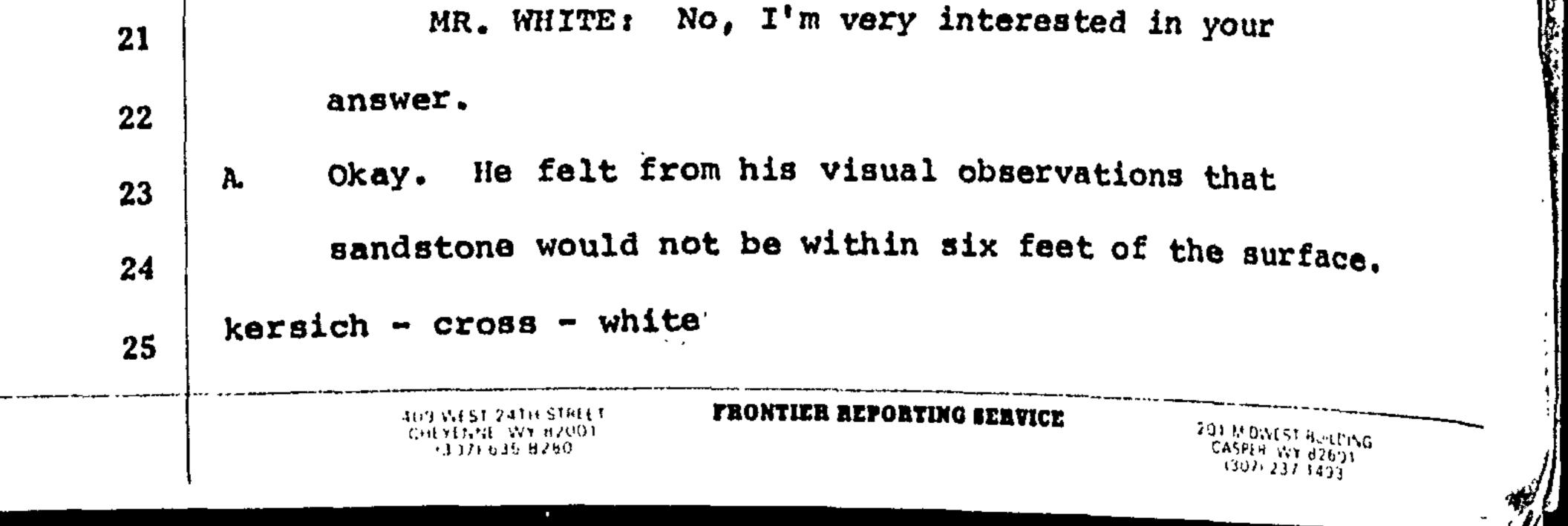
• •

```
mile of that parcel or less, about a quarter of a
                     21
3
                                   mile.
3
                     22
3
                                                                        You are artfully dodging
                                           THE SPECIAL MASTER:
                     23
3
                                   his question.
                     24
肉
                            kersich - cross - white
Ø
                     25
0
                                                              FRONTIER REPORTING SERVICE
                                         409 WEST 24TH STREET
CHEYENNE, WY R2021
                                                                                                201 MIDWEST BUILDING
CASPER WY 82601
(107) 237 1493
                                          1397+635 9260
9
                                        1
```

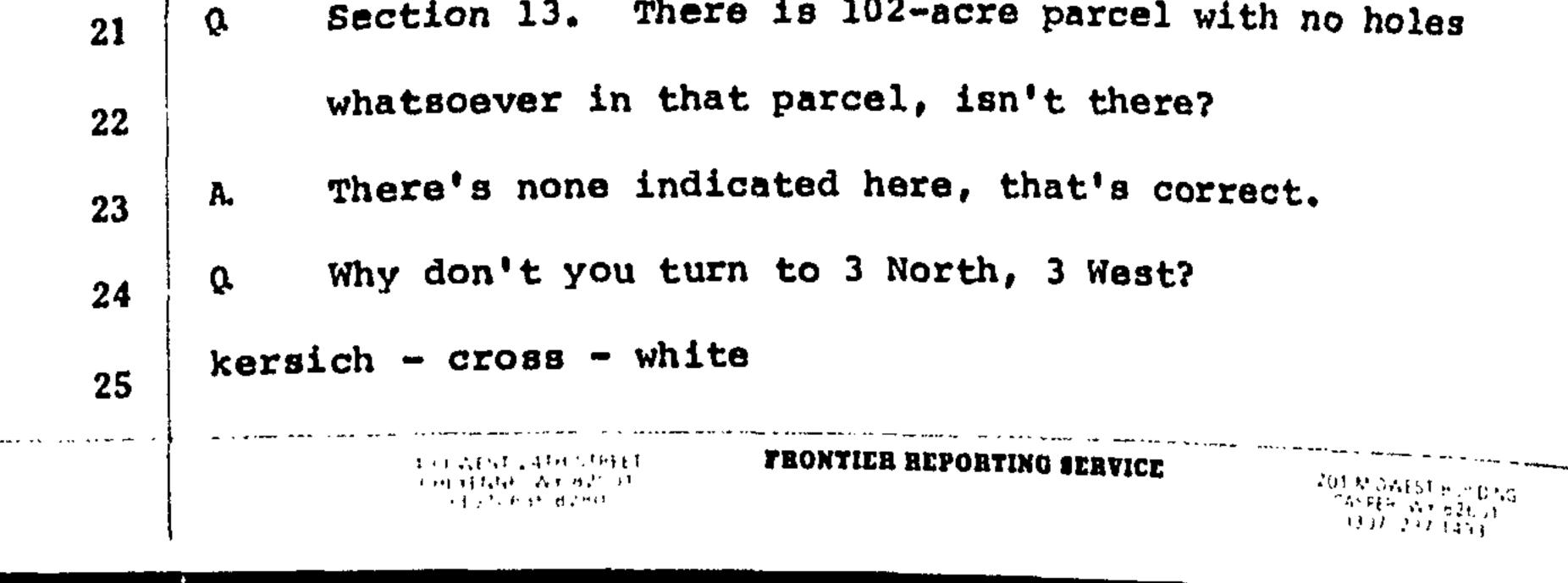
; 19-2 9	1499
; 1	(Laughter.
2	THE WITNESS: Well, I'm
≠ 3	MR. WHITE: I figured if I asked it enough
\$ 4	THE SPECIAL MASTER: That's all right. You
ج 5	have to say where it is but then a yes or a no
- 6	or a but could have been in order too. But that's
e 7	all right. We understand each other.
8	THE WITNESS: Can I finish the answer?
9	THE SPECIAL MASTER: Of course you can.
1 0	A The point is that there are other indications that
y 11	sandstone is less than six foot in depth in that
12	area.
13	Q (By Mr. White) You wouldn't know that from your
14	Spil Log No. 7, which is the closest hole to the
1 5	southern portion of that parcel, would you?
16	A. May I look at my Soil Log No. 7?
17	Q. Sure.
1 8	THE WITNESS: Let me get it from the back
19	of the room, please.
20	THE SPECIAL MASTER: Off the record.
21	(Off-the-record discussion.
22	Q (By Mr. White) Your soil log, Soil Profile Log No. 7
2 3	which is the closest to the southern portion of
9 24	that 729 acres only goes to 24 inches, doesn't it?
25	kersich - cross - white
************************************	AT FALST 24 W STREET FRONTIER REPORTING SERVICE 201 WOREST BUILDING POPULATION AT 92 (1) 307-119, 828 P

- -

19-3		1500
1	A.	That's right.
2	Q	So you couldn't tell whether or not the barrier
3		was any closer than six feet from that hole, could
4		you?
5	A.	Not from that hole but there is one additional
6		bit of information that you're not taking into
7		consideration.
8	¢	Okay.
9	A.	For example, in this Soil Log, look who it was
10		logged by. Mr. Waples, correct?
11	Q	I don't know.
12	A.	It says RW up there, doesn't it, on your copy?
13	Q	Is that Ross Waples?
14	A.	Yes. All right. This particular area was discussed.
15		Also in the Big Horn Flats area I believe it was
16		nine soil pits were dug to try to determine what's
17	,	happening with regard to gravel and where the
18		sandstone may be. Mr. Waples was on the ground he
19		felt from his own visual observations am I
20	,	bothering you, Mr. White?
]	NO DUTTE NO I'm voru interated in your

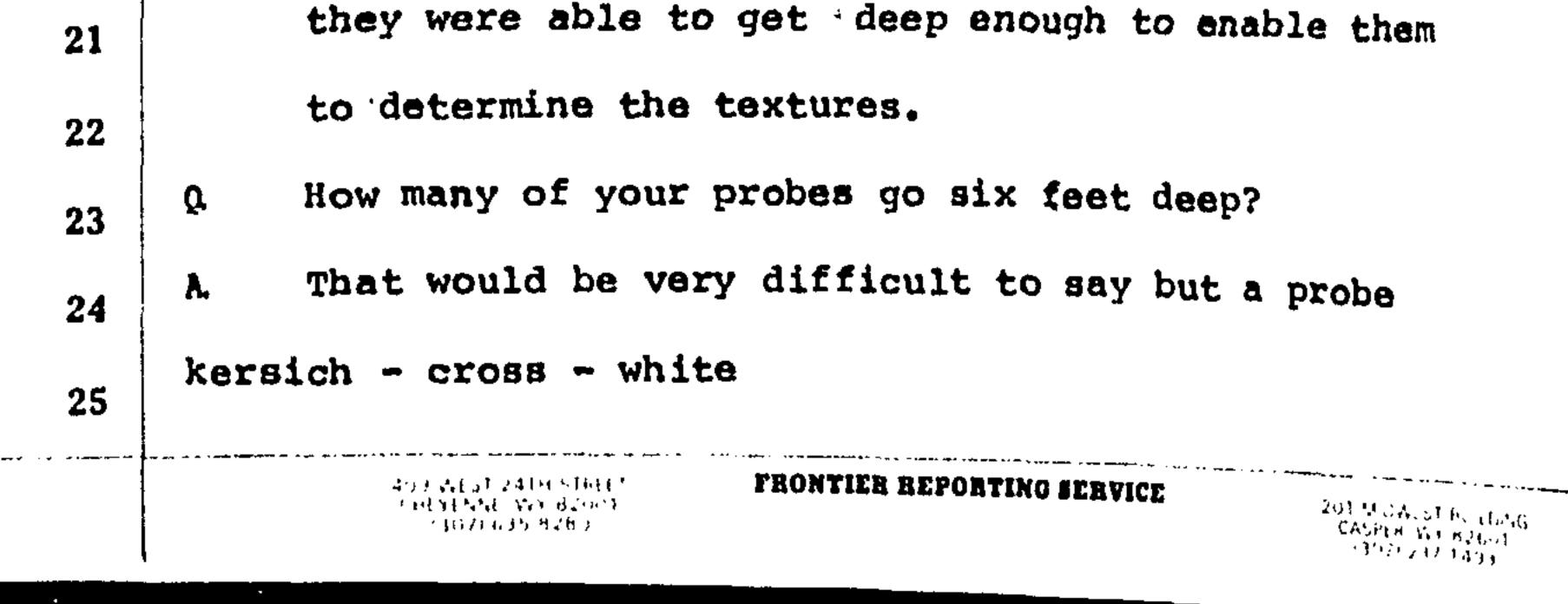


· · ·		
19-4		1501
1	Ģ	(By Mr. White) And that's how you decided that
2		729 acres that doesn't have a hole in it enjoyed
3		at least six foot to barrier?
4	A.	There isn't any indication of barrier being less
5		than what we've got reported on our deep holes
6		where they are located around area. And I think as
7		the practical matter we can't drill a deep hole
8		on every particular tract.
9	Q	Well, over in the next Township to the east,
10		that 729-acre parcel continues to another 102-
11		acre parcel, doesn't it?
· 12·	A.	Yes.
13		Are you talking now let me are you
14		talking about 2 North, 1 East, and you're talking
15		about Section 7, sir?
16	à	Let me look over your shoulder. My copy isn't very
17		strong.
18	A.	Sure.
19	Q	Section
20	A.	Section 13, right here.
-01	a	Section 13. There is 102-acre parcel with no holes



19-5		1502	
· 1	A.	Okay.	
2		THE SPECIAL MASTER: Give me sections too, if	
3		you can, Mr. White.	
4		MR. WHITE: I'm trying to figure them out from	
5		the photograph, Your Honor.	
6		THE SPECIAL MASTER: All right.	
7	Q	(By Mr. White) In Section 3 dropping into Section 10	-
8		and going over into Section 2 there's a 242-acre	
9		tract, is that correct?	
10	A.	That's correct.	
11	Q	There are three holes shown in that tract, is that	
12		correct?	
13	A.	There are probes, yes.	
14	Ŭ	How deep are those probes?	
15	A.	One of them stopped at 12 inches one of them	
16		shows stopping at 12 inches.	
17	Q	How deep are the other two?	
18	A.	I can't tell you at this time. But they were made	
19		to ascertain the depth of the topsoil at that point	
20		and there is a listing of the topsoil, so obviously	
	Ì	they were able to get 'deep enough to anable them	

Lange State

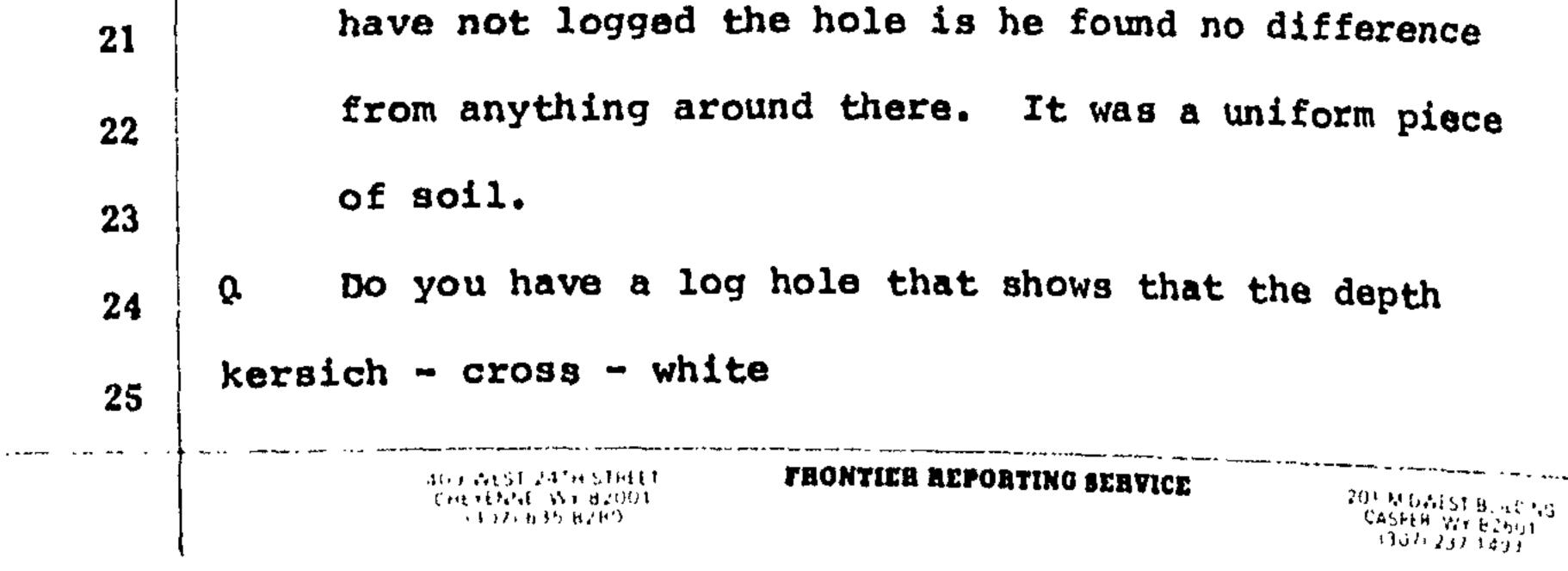


)

19-6		1503	
1		is usually put in to make sure there have been	
2		no change in the texture or the type of soil or	
3		the land form at that particular place. And so	
4		a probe is merely used to ascertain that it does	
5		meet the classification that the classifier put	
6		on it.	
7	Q	The probe holes are unlogged, aren't they?	
8	A.	They are not logged.	
9	Ø	Unlogged, yes.	
10		So isn't it true that you've classified as	
11		for :-3. sprinkler and Class 2 excuse me,	
12		3 gravity and Class 2 sprinkler that 242-acre tract	
13		with no logged holes within the tract going to six	
14		feet?	
15	A.	It is true that they classified the classifier on	
16		that particular piece of property classified that	
17		using probes to ascertain the soils and put the	
18		necessary limitations on that he thought were there	
19		for both Class 3 and Class 2.	
20		One of the reasons he wouldn't necessarily	
		bave not logged the hole is he found no difference.	

- -

>

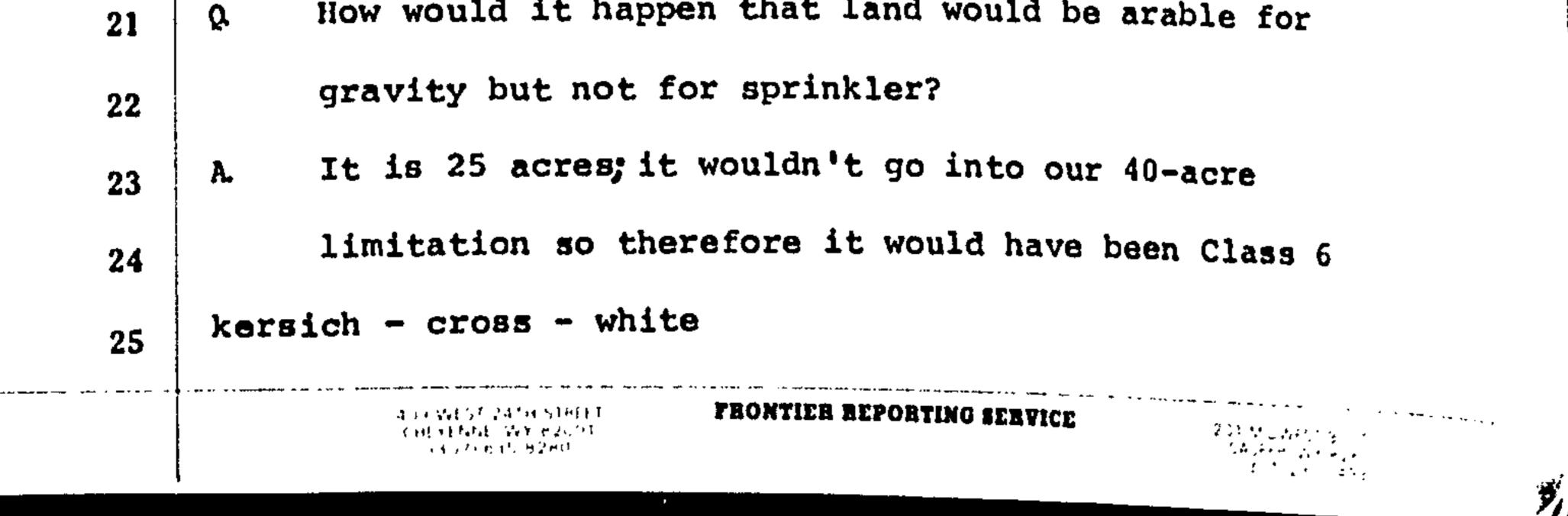


٠

, s≱t, '

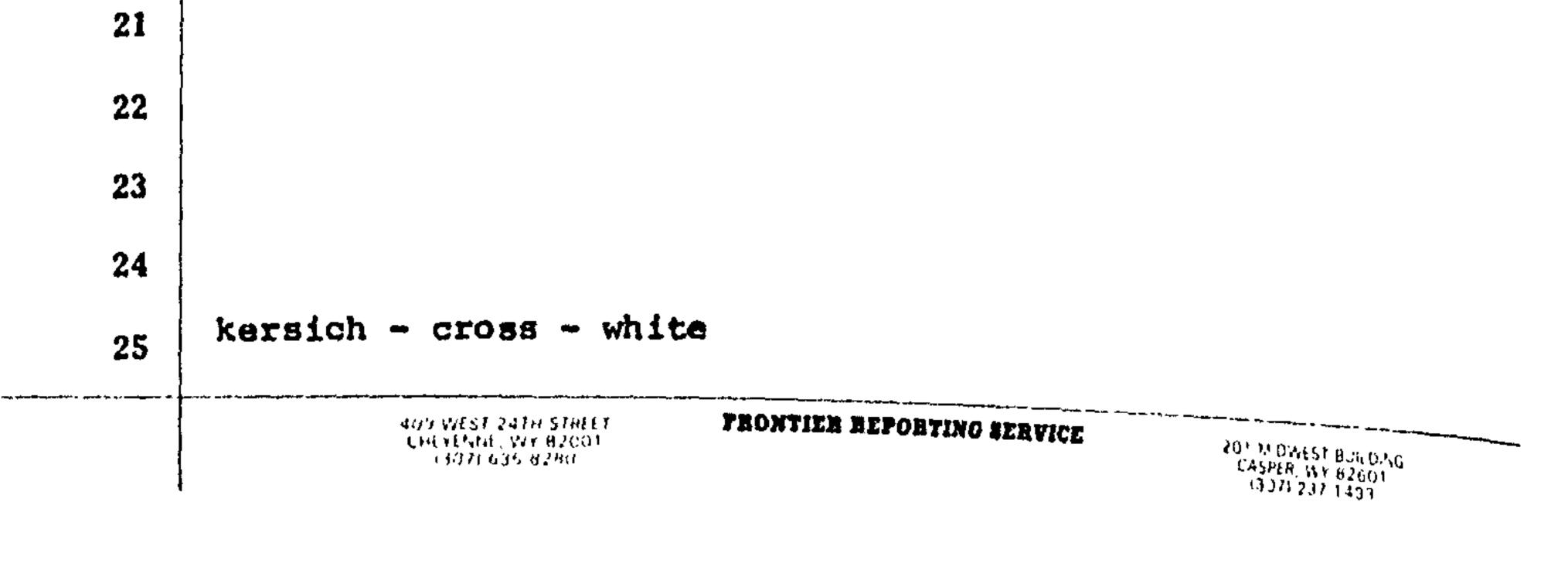
19-7			1504
	1		to barrier is at least six feet as required by
	2		your standard in that parcel?
	3	A.	In that particular parcel, no.
	4	¢	Yes.
	5	A.	No. But it appears there may be some cut banks
	6		or something in there which might tell them something
	7		of that nature so all of these things have got to be
	8		taken into consideration.
	9	Q	Right.
	10		Let's stay in the same Township, please.
	11	A.	Yes, sir.
	12	Q	Go down to a 25-acre tract that appears to be
	13		between the lying on the border of Section 1
	14		excuse me, Section 2, Section 1 and Section 11 of
	15		that Township, do you see that parcel?
	16	A.	Yes, uh-huh.
	17	Q	Is that classified as 3 gravity?
	18	A.	It appears to be, yes.
	19	Q	But 6 sprinkler?
	20	A.	Yes.
		0	How would it happen that land would be arable for

And the state of the second seco



The second second

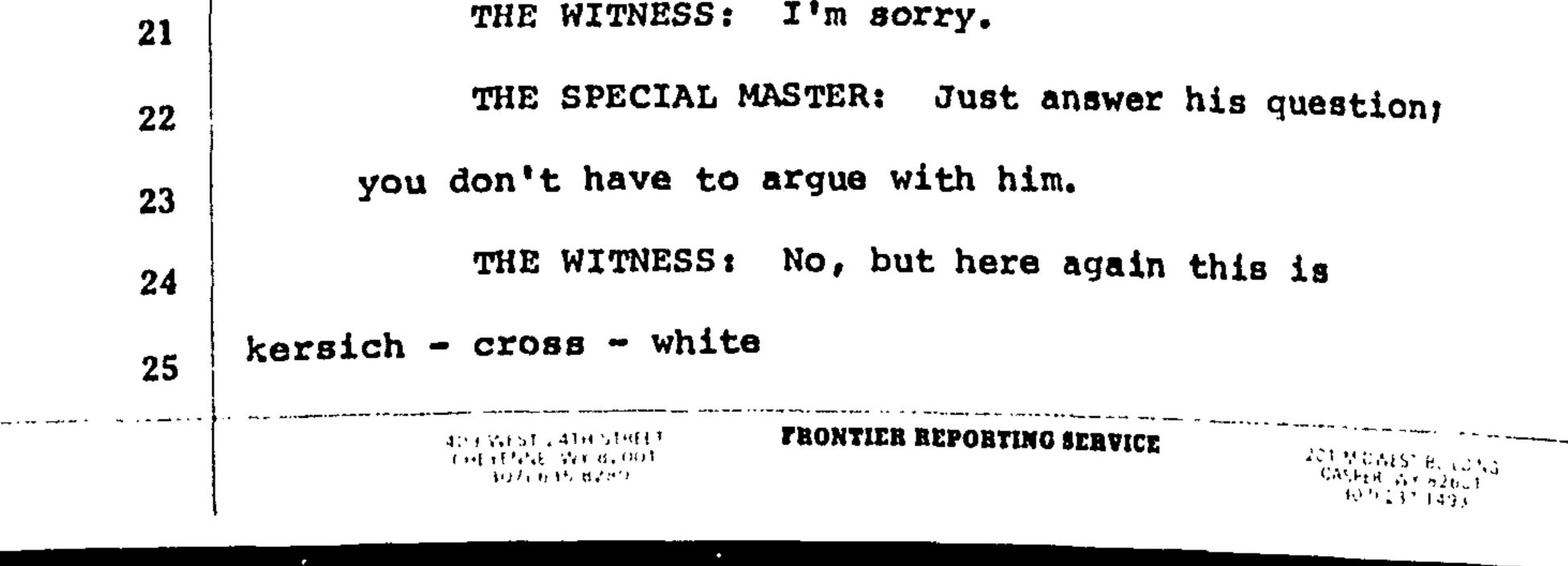
19-8			1505
1	for	sprinkler. It is very clear	to me.
2	Q. Oka	Ay. I was just curious because	e of your no
3	min	imum size limitation on your o	other type
4	spr	cinklers.	
5	A. A11	L right, but didn't it come in	on Class 3 gravity
6	and	isn't it therefore being incl	luded in our Class
7	3 i	in your gravity?	
8	Q Let	t's talk about the Class 3. Is	s there any kind
9	of	hole in that parcel?	
10	A. NO.	•	
11	· ·		
12		•	
13			
14			
15			
16			
17		. * * * * *	
18			
19			
20			
21	1		



	·····			- Article Party
•1 MF	R-e		1506	
	1	Q (By Mr. White) (Co	ntinued) Down just below it	
	2	in Section 12 and	overlapping a bit into Section 11	
	3	is a 41-acre parce	1.	
	4	A. Yes.		
	5	Q You find that?	•	
	6	A. Yes.		
	7	Q. That's classified	3 gravity and 3 sprinkler; is	
	8	that correct?		
	9	A. That's correct. U	m-hum.	
	10	Q. Is there any hole	whatsoever in that parcel?	
	11	A. No.		
	12	Q And continuing on	to the southeast in Section 12,	
	13	do you find 118-ac	re parcel?	
	14	A. Yes.		
	15	Q. There is a hole th	ere, isn't there?	
	16	A. There's a probe of	E 12 inches, yes.	
	17	Q But there is no ho	ole that goes, six feet deep; is	
	18	there?	-	
•	19	A. Is there any need	for it there?	
	20	THE SPECIAL N	ASTER: That's argumentative.	
		THE WITNESS:	I'm sorry.	

いたいないのないでし

¥,

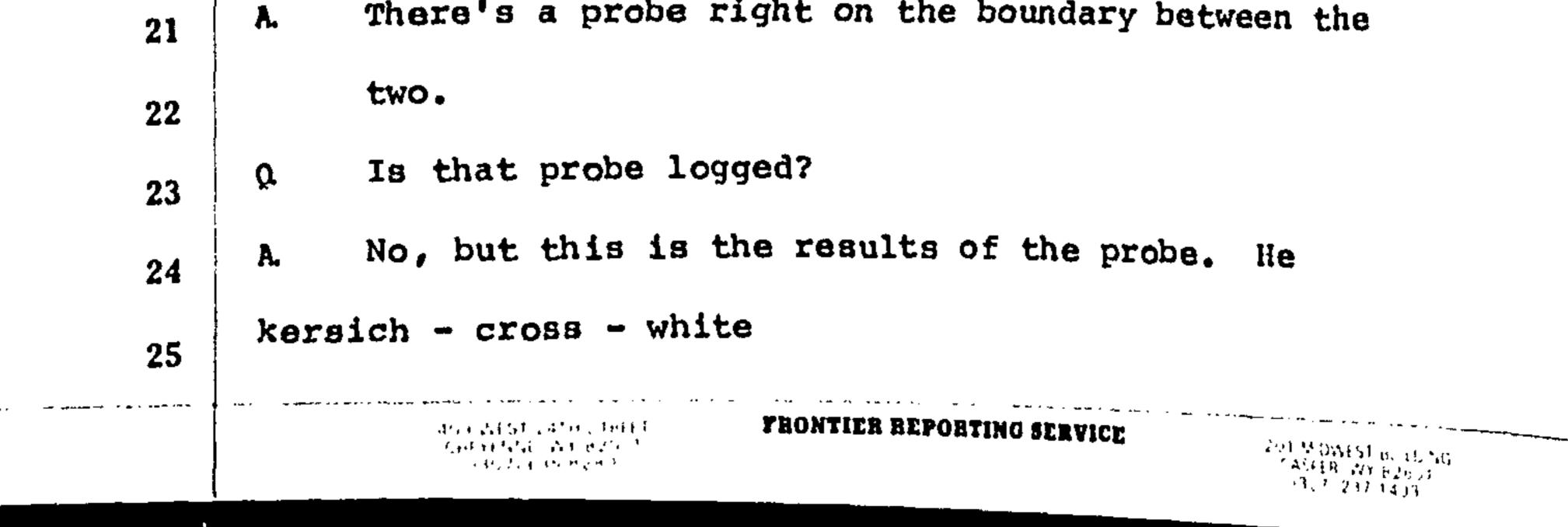


0-2		1507
1		a problem with the classifiers, and I guess one
2		thing we should do is look to the adjoining
3		Township to see if there might be some more
4		information there.
5	Q	(By Mr. White) Go ahead.
6	A.	Okay. This is 3 North, 3 West.
7		(Brief pause.
8	A.	There's some holes, there's one hole that he augered
9		to, I believe it says 36 inches, gravel and augered
10		at 36 inches.
11	Q	That within the 118-acre tract?
12	A.	That's in the larger tract at this point.
13	Q	The answer's no?
14	A.	The answer is no. He made it appears that the
15		classification line there may be separating two
16		tracts, one which could be worked with sprinkler,
17		one which may not be.
18	Q	I'm referring to the 118-acre tract.
19	A.	Yeah.
20	Q	That's Class 3 for both sprinkler and gravity.
21	A.	No. There's no hole in that particular tract.
22		It just extends in the Township, in the
23		next Township slightly.
24	Q	Would you please turn to Township 3 North, 1 West.
25	kei	csich - cross - white
		AD3 WEST 24TH STREET TRONTIER REPORTING SERVICE 201 VOWEST BUID VE ENERGIA WY 82003 (307) 635 9289 (3 17) 237 1413

20-3		1508
1		THE SPECIAL MASTER: Section?
2		MR. WHITE: I think it's 32 and 29, Your Honor.
3	Q	(By Mr. White) See a parcel comprising 129 acres,
4		Class 3 sprinkler excuse me, Class 3 gravity,
5		2 sprinkler that
6	A.	Seventy-seven acres for sprinkler.
7	Q	Seventy-seven acres for sprinkler?
8	A.	That's correct. There's quite a difference in
9		parcel size.
10	Q	There's a dotted line in that parcel. What does
11		that dotted line mean?
12	A.	That dotted line means for class, for the sprinkler
13		classification this particular portion located in
14		the north and extending on into the Section 29 was
15		cut off because it was neither of the size nor shape
16		that would be applicable to sprinklers.
17	Ò.	And so you got 121 acres Class 3 gravity and 77
18		acres Class 2 sprinkler.
19	A.	Yes.
20	Q	Is there a hole of any kind in that parcel?
	1	There's a probe right on the boundary between the

.

. ·



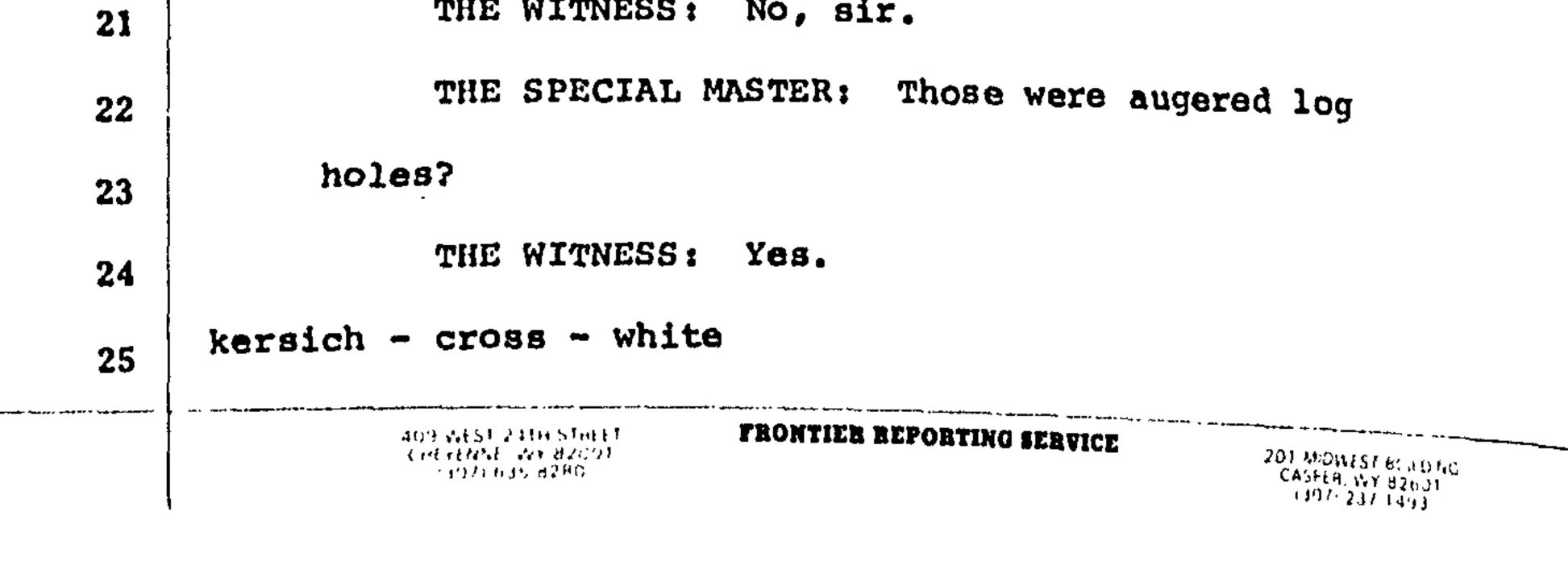
0-4	1509
1	shows a light textured surface soil, a light
2	textured subsoil. He shows there's gravel in the
3	profile, there's a potential gradient and a J
4	factor, which is for size and shape.
5	Q. How, from that symbol, based on the probe, how deep
6	did the person making the probe discover it was to
7	barrier?
8	A He didn't discover how deep it was to barrier, but
9	there were no evidences of surface problem. There
10	must have been good vegetation there, the very things
11	you look for as part of your overall classification
12	work.
13	Q Immediately to the southeast there's of that
14	parcel I just described again in Section 32, there's
15	the parcel of 24 acres that's Class 2.
16	A. That's right.
17	Q. Sprinkler.
18	A. That's correct. It's Class 6 for gravity also.
19	Q. Is there any hole of any description in that
20	parcel?
21	A. No, but you know, it's kind of interesting, he does
22	call it, he calls it medium textured soils, medium
23	textured subsoils, gravel in the profile, and a
24	gradient. The gradient must have been sufficient
25	kersich - cross - white
	4. / WEST 241H STREET TRONTIER REPORTING SERVICE 201 MUNEST 01 (0.40) 1. HE VERTE WY 82001 3. STREET STREET TRONTIER REPORTING SERVICE 201 MUNEST 01 (0.40) CASPER WY 82001 1. HOTI 201 HI 02001 1. HOTI 201 HI 02001

20-5	1510
<u></u>	
1	to throw it out from a gravity standpoint.
2	THE SPECIAL MASTER: I have a question, if
3	not confusion running in my mind. If a probe is
4	rarely deeper than 12 inches
5	THE WITNESS: No, no.
6	THE SPECIAL MASTER: Probes can be deeper than
7	12 inches?
8	THE WITNESS: Yes. What happens many times,
9	you hit a piece of gravel and I think I even

P.

100000000

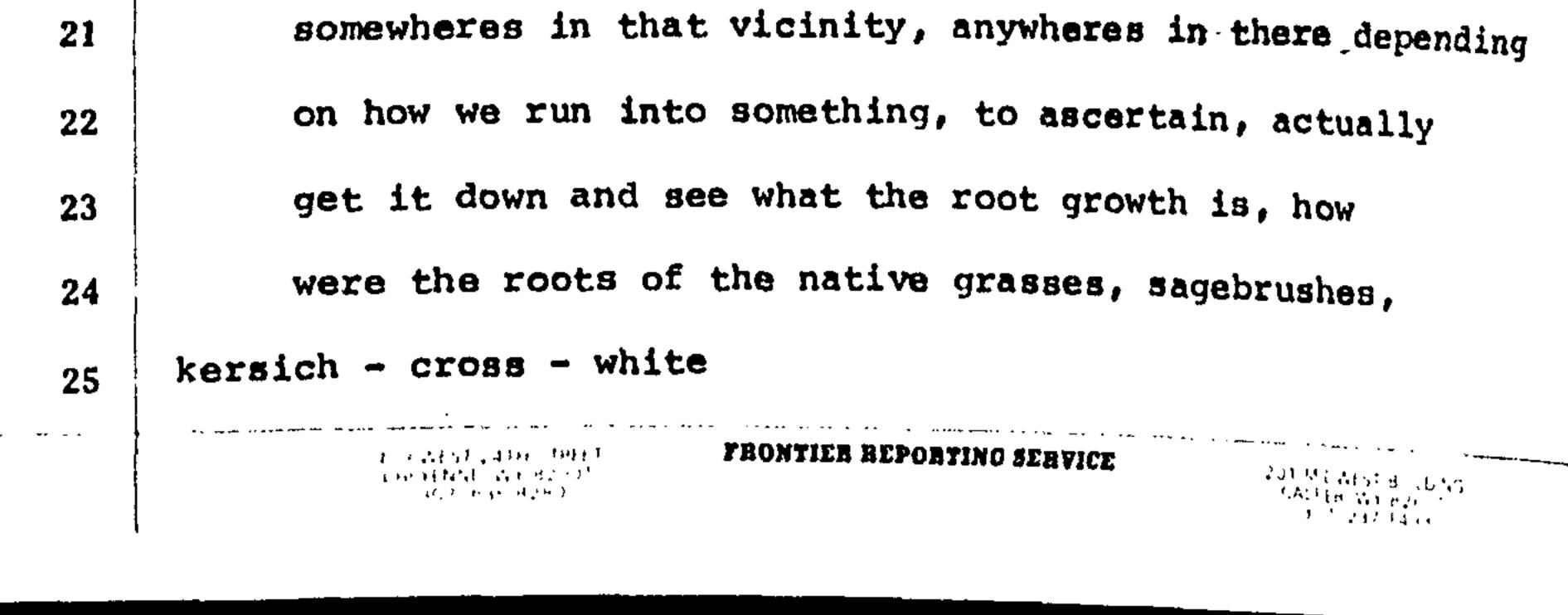
10	brought a piece of gravel to show you what will stop
11	a soils auger. When we're talking about gravel,
12	we're talking about rocks like this, potentially
13	like this (indicating).
14	So he's got information he needs, he realizes
15	there's enough soils matrix in the gravel, he may
16	not go any further.
17	But probes many times are the same depth of
18	auger holes or maybe deeper.
19	THE SPECIAL MASTER: But the augered holes
20	were 671, those were not probes?
	THE WITNESS: No. sir.



. .

20-6	1511
1	THE SPECIAL MASTER: And probes can either
2	be sometimes shoveled as well as drilled?
3	THE WITNESS: Well, you can use pitg., For
4	example, on Big Horn Flats can I just take the
5	time to talk about that, sir?
6	THE SPECIAL MASTER: Sure, I'd like you to.
7	. THE WITNESS: As long as we've got the map here
8	on Big Horn Flats, you run into a problém on Big
9	Horn Flats with relatively shallow soils, there's
10	gravel within most of the soils and sometimes cobbles.
11	You can't get a hand auger sometimes down through
12	that; you can't get a power auger many times. If you
13	hit a piece of cobble, and you only have to hit one
14	piece at the right spot
15	THE SPECIAL MASTER: So you use a pick and a
16	shovel.
17	THE WITNESS: That's exactly what I was going
18	to tell you. We put nine pits in there with a
19	back hoe, and I can't remember the exact depth,
20	but I'll guess they're from seven feet to nine feet,
21	somewheres in that vicinity, anywheres in there depending

فلارد والا



20-7	1512
1	things of this nature were growing, how they were
2	able to sustain life in that particular environment,
3	so that was why what we did there because of the
4	fact that we couldn't get the information
5	necessarily from just a soils auger.
6	Now, ordinarily in a soils investigation you
7	try to use the auger as much as possible because
8	it's a time and cost situation, and if you get a
•	situation where you're not getting answers, then

•

.

•

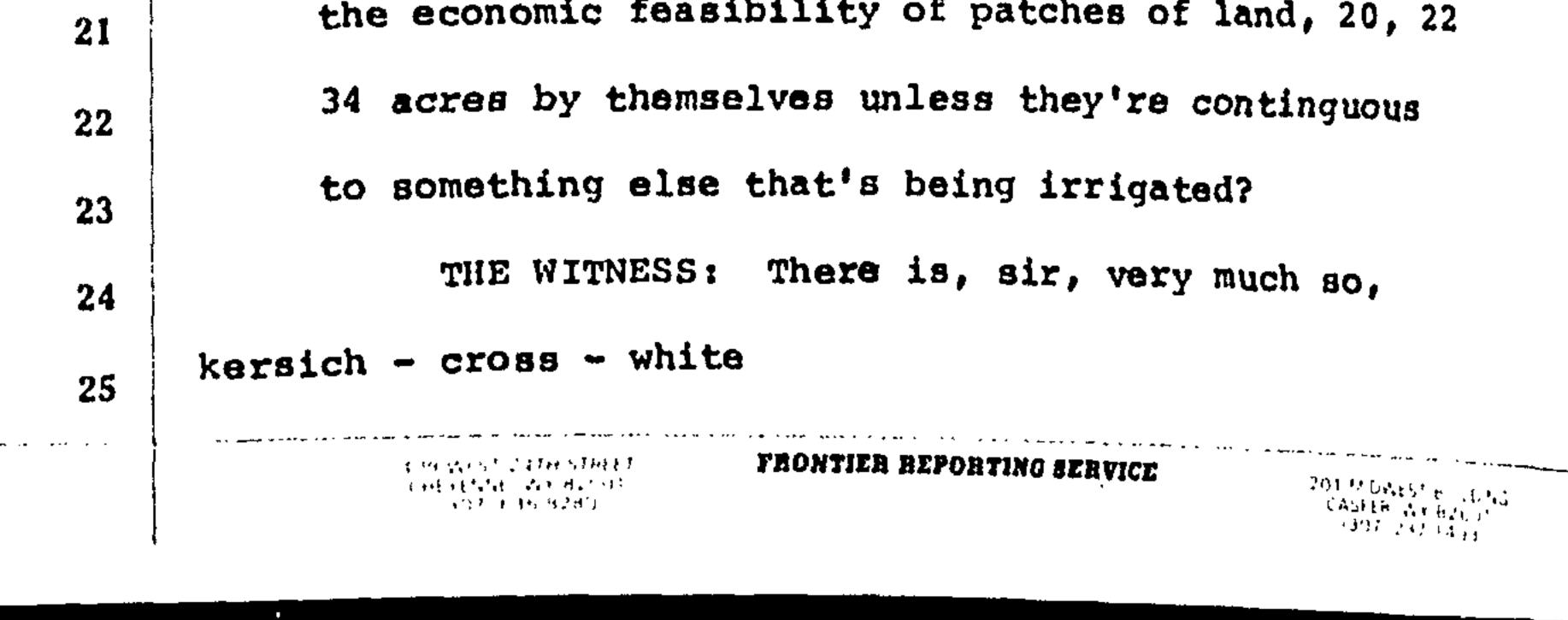
「「「「「「「「「「「「「」」」」

and the second in the second descent states and the

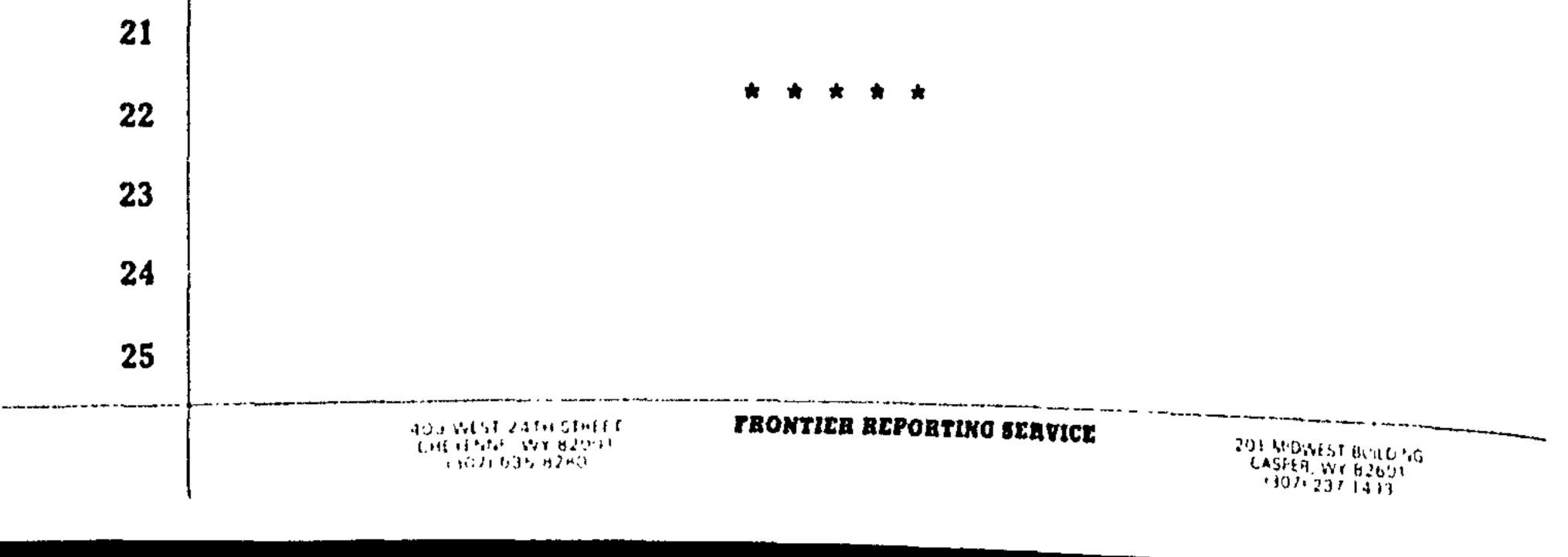
11

Harrison & Frank

9	l	BICUALION WHELE YOU'LE NOU GELLING ANDWENDY THEM
10		you get it from that.
11		Now, it's not unusual also, and I've done this
12		myself on this particular project, to see where they
13		probe to say 12 inches and then be concerned about
14		the soils matrix because there wasn't any in the log,
15		so what we did, we actually took a pick and a shovel
16		out there and actually dug down two and a half feet
17		to see what was going on in that particular area.
18	Q	(By Mr. White) You say you back hoed it there
19		I'm sorry, Your Honor.
20		THE SPECIAL MASTER: Is there a question about
		the economic feasibility of matches of land lo on



20-8	1513	
1	but not knowing how the agricultural engineer	
2	was going to design his system	
3	THE SPECIAL MASTER: You weren't given that.	
4	THE WITNESS: We put it on there and let him	
5	make the decision.	
6	Now, it's not unusual for the agricultural	
7	engineer many times these small pieces will be	•
8	separated from a larger piece by a whole piece of	
9	Class 6 land, for example. And there are many	
10	reasons you can have Class 6 lands, it could be too	•
11	rough or well, many types of things.	
12	THE SPECIAL MASTER: Sure, sure.	
13	THE WITNESS: So you don't know how the	; ,
14	final design is going to come out, so what you got	
15	to do is locate that land.	
16	THE SPECIAL MASTER: Let him worry about that.	,
17	THE WITNESS: And allow it to go through the	
18	next two or three steps screening process.	
19	THE SPECIAL MASTER: Thank you very much, sir.	
~ 20		1



5800 ST -----

-CR		
		1514
1	Q (*	(By Mr. White) You spoke of these backhoe pits
2	•	in the Big Horn Flats area?
3	A	Yes.
4	Q	How many acres were there in the Big Horn Flats
5		study area?
6	A	In the Big Horn Flats study area, I couldn't
7		tell you offhand. They are substantial, but
8	Q	Certainly in the neighborhood of 50,000 acres?
	A	I wouldn't give you an estimate. I would have

Î

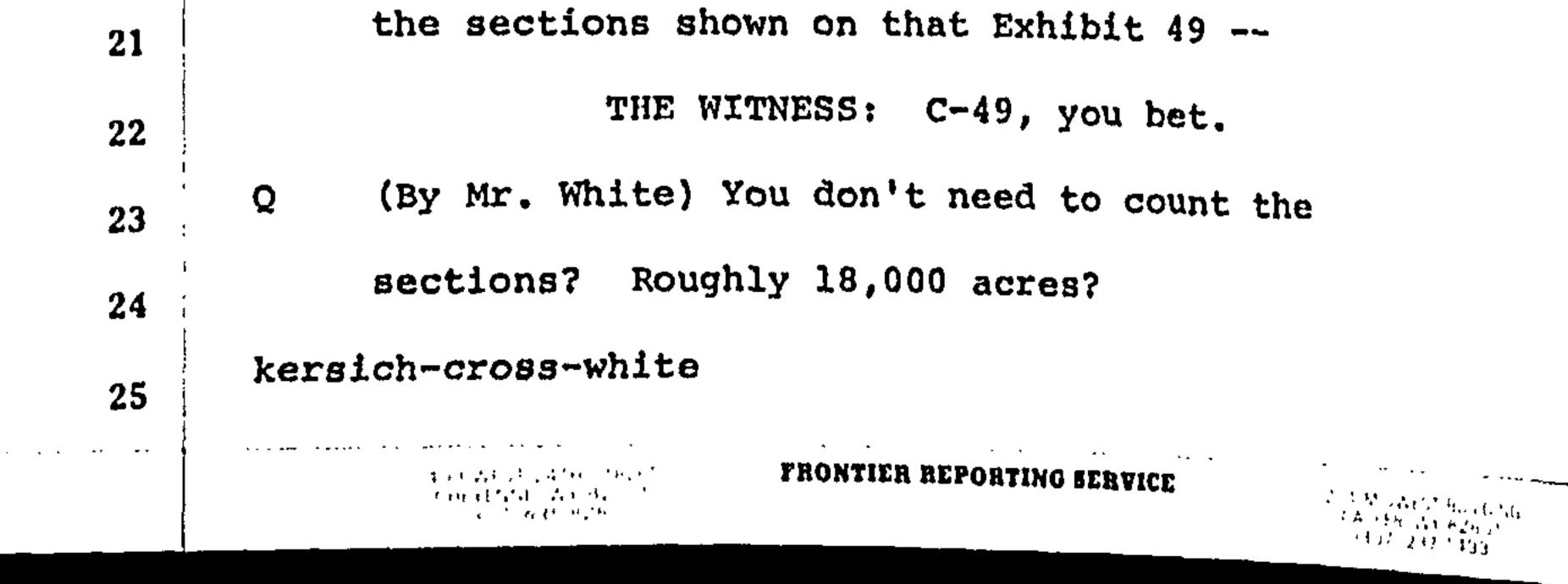
فعتلكت

F

こうちょう こうちょう していたい ちょうちょう しょうちょう しょうちょう

÷.

9	A	I wouldn't give you an estimate. I would have
10		to sit down and count the sections, would be
11		the easiest way. If you want me to do it, I'll
12		do it right now.
13	Q	Okay.
14	A	Do you want me to do it?
15	Q	If that's the way you have to do it. I thought
16		maybe you would know.
17	A	I would be very happy to do it. It will take me
18		some time.
19		THE SPECIAL MASTER: How many acres
20		in the study area? I presume it's a total of



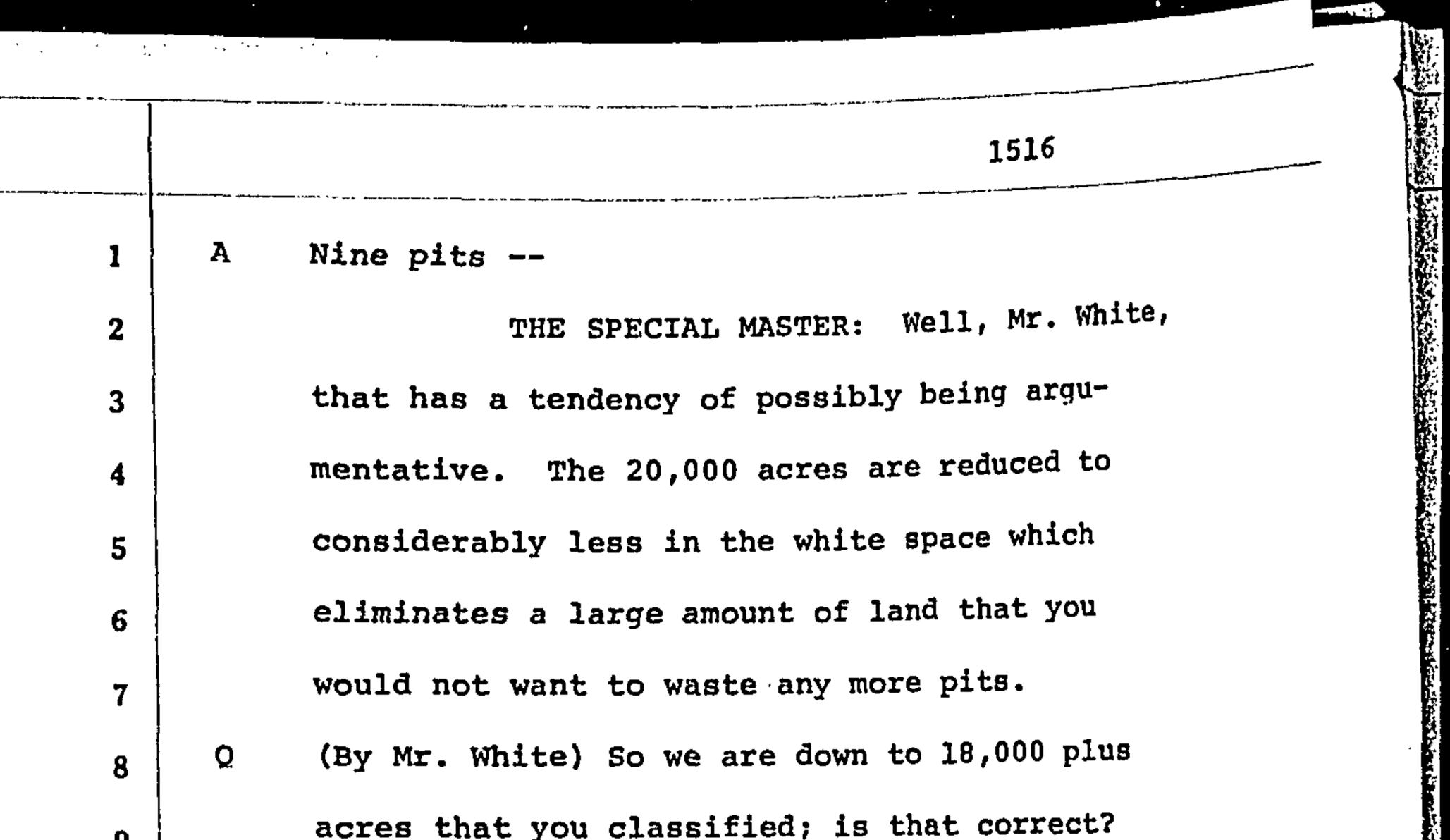
)

•2		
		1515
1	A	No, no. You asked me how many acres in the
2		study area. That was your question.
3	Q	That's right, and you told the Master the
4		figure on the lower right-hand corner of
5		Exhibit
6	A	No, I did not tell the Master.
7		THE SPECIAL MASTER: I think I inter-
8		jected it would probably be a total of the
9		sections shown on that exhibit and from its
10		exterior boundaries.
11		THE WITNESS: That's correct.
12		THE SPECIAL MASTER: I suppose we
13		can all prove that by just multiplying 640
14		times an awful lot of sections.
15	Q	(By Mr. White) You don't even have a rough idea
16		how many acres are in that study area?
17	A	Not without going back through my study notes.
18	Q	But the acreage is in excess of 18,000 acres,
19		isn't it?
20 t	A	There are quite a number of more acres that

,

have been declared arable, 21 ÷ And you dug how many pits in that area? Q 22 . We dug nine, sir. A 23 Nine for over 20,000 acres? Q 24 kersich-cross-white 25 FRONTIER REPORTING SERVICE n a statue a tradición de la companya de la company La companya de la comp

******* e in Maria Standard Annek dar Kasar Standard



9		acres that you classified; is that correct?
10	A	Yes, we have classified 18,900 and some odd
11		acres as arable.
12	Q	And you dug nine pits in that area; is that
13		correct?
14	A	I'd have to check, but, yes, as I recall, that's
15		the figure I put in, and that's to the best of
16		my knowledge the number of pits we put in that
17		area.
18	Q	How many pits did you dig elsewhere?
1 9	A	Not very many.
20	Q	Not very many?

State of the State

Real Property lies

		<pre>c g gtop = t g t t t t t t t t t t t t t t t t t</pre>	FRONTIER REPORTING SERVICE	2 3 M C. 465 8 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5			
25	, <u>-</u> , , ,	sich-cross-white					
24	A	Yes, we dug our p	its after we had done o	our initial			
23	: 	in the Big Horn F	lats area; is that corr	ect?			
22	Q	So the only backh	oe pits you constructed	lwere			
21	A	A As I recall, I don't think we dug any.					

-4	F 17		
·		1517	
1		soil survey work, land classification, and we	
2		went back in to confirm our findings or our	
3		lack of knowledge in that area.	
4	Q	Let's go back to Township 3 North, 1 West, and	
5		the 24-acre parcel, Class 2, sprinkler, in	
6		Section 32.	
7		I may have asked you the question before,	
8		and I apologize if I did, but I can't remember	
~		whether I did or not.	

1.11

Call South Street Street

E. D. C.S.

١.

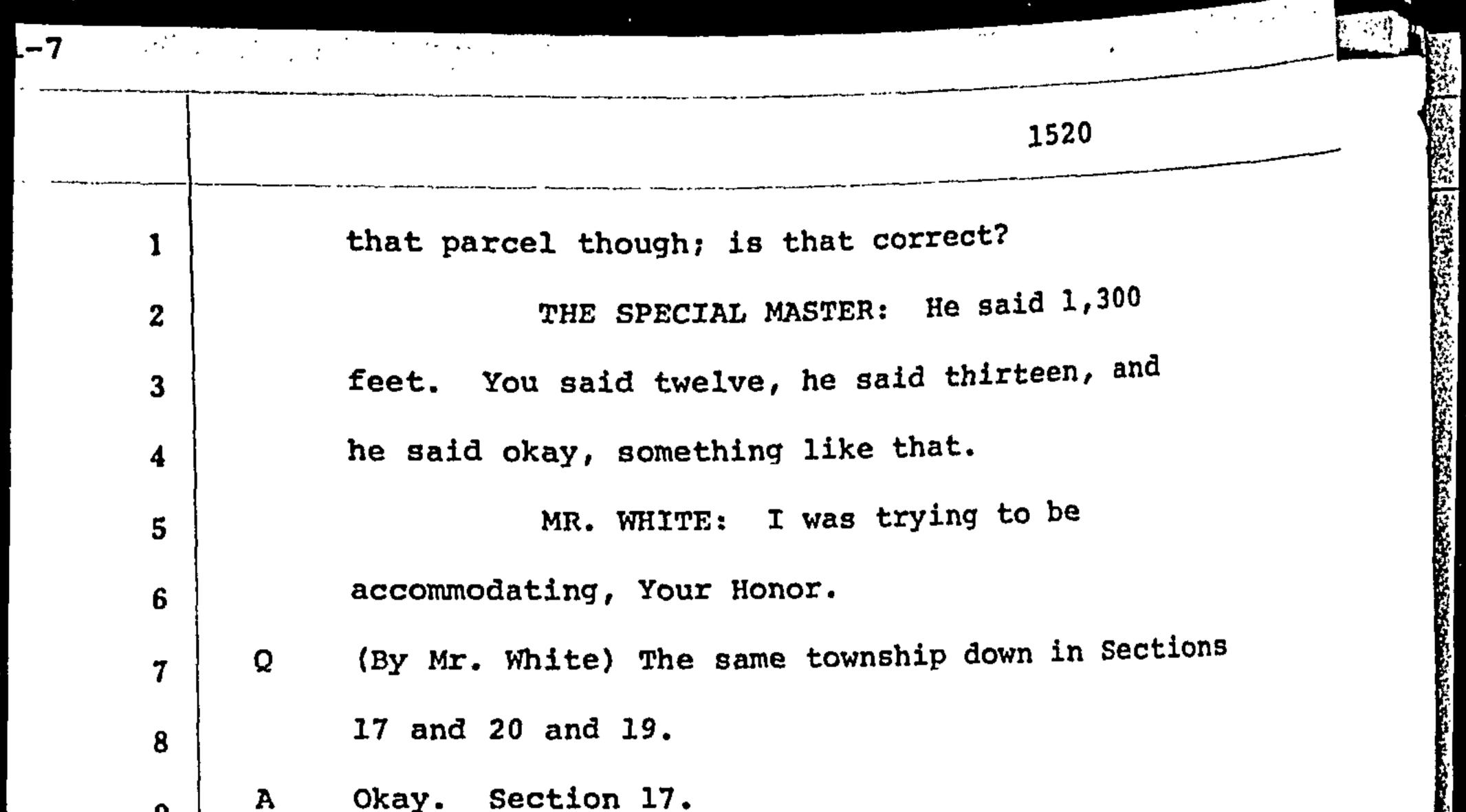
9		whether I did or not.	
10		Is there a hole of any type within t	hat
11		29-acre parcel?	•
12	A	No, there's none shown here.	
13	Q	And immediately to the east, still in Sec	tion 32,
14		is an 18-acre parcel. Is there a hole of	any
15		type in that parcel?	
16	A	No, sir.	
17	Õ	Would you please turn to Township 1 North	1, 1
18		East?	
19		THE SPECIAL MASTER: Section?	
20	Q	(By Mr. White) I direct your attention to	a
21		94-acre parcel in the northwest portion c	of
22		your township aerial photograph. Are you	ı able
23		from your photograph to describe the sect	tion
24	í	in which that 94-acre parcel falls?	
25	ker	sich-cross-white	
		FRONTIER REPORTING SERVICE	2 THOME THE COME CAMERINE STREET
	7 		

		1518
1	A	Okay. That would be Township 1 North, 1 East,
2		Section 7, and I'm pointing to a parcel there
3		that has a soils class designation of 2Tl over
4		HHG, which is heavier soils in the surface,
5		heavier soils in the three feet below, and a
6		gradient problem, or at least a gradient concern.
7	Q	Is that 94 acres classified 2 for gravity and 1
8		for sprinkler?
9	A	That's correct.
10	Q	Is there any logged hole within the boundaries
11		of that parcel?
12	A	There doesn't appear to be a logged hole there.
13		There is a probe to 72 inches though.
14	Q	Is there any log of that probe?
15	A	No, sir, but the results of that probe are
16		certainly evident in the denominator of the
17		soils classification.
18	Q	Immediately to the south of that 94-acre parcel
19	A	This would be
20	Q	Still in Section 7.
	1	

•

	1 1
25	
	kersich-cross-white
24	that?
23	Class 1 gravity, Class 6 sprinkler. Do you find
22	Q There's a 25-acre parcel that's, I believe,
21	
	A Yes, it will be in the SE $1/4$ of Section 7,

		1519
1		les.
2	QI	s there any hole whatsoever within that parcel?
3	A 7	here's no hole or probe indicated, no. One
4	t	hing can I clarify one thing on that?
5	Q E	Sure.
6	A (Okay. If you'll look, there is a line drawn
7	1	that has an arrow, half an arrow on each side of
8	1	the line, which indicates that those two parcels
9	5	appear to be relatively the same as far as soils
10	(classification and so on.
11		There's also a deep hole located about a
12	4	thousand it's about twenty-six well, I'm
13	ę	going to say a thousand feet, and you can argue
14	٩	with me on that if you want to.
15	Q :	I would have said a quarter of a mile.
16	A I	Well, 1,300 feet, okay. There's a deep hole
17		that we do have a log on that shows 8 feet there,
18		and there's another probe in that area, a logged
19		hole 14, which shows 106 inches to any barrier,
20		so there's been a pretty comprehensive system
21	;	of holes there for that particular 25 acres.
22		I think there's sufficient information for a
23		qualified person to make an ascertation there.
24	Q	Those holes are either 1000 or closer than 1000 feet
25 g	kersi	ch-cross-white



9	A	Okay. Section 17.
10	Q	20 and 19.
11	A	20
12	Q	There's a 29-acre parcel that's classified 6
13		gravity, 1 sprinkler. Do you find that?
14	A	Yep.
15	Q	Is there any logged hole within that parcel?
16	A	There's a probe in there.
17	Q	Is this a logged hole?
18	A	There's no logged hole. There is a logged hole
19		to the south of that at about 1,200 feet.
20	Q	Now, about a mile south of that in Section 29
21		there's a parcel of 40 acres that's classified
22		3 gravity, 6 sprinkler. Do you find that?
23	A	Yes.
24	ι - Ω	Is there any hole whatsoever within that parcel?
25	ker	sich-cross-white
-		FRONTIER REPORTING SERVICE

F

A STATE OF A

E

- 8		
		1521
1	A	There's not shown, and I would like to point
2		out one thing, if I may again? Just so
3		everyone understands it.
4		Many times they will put a probe down and
5		ascertain a particular area and it won't show
6		because probes are just probes. That's what
7		they are. I don't have any problem with that
8		in reviewing their work.
9		What makes me wonder about that is there is an
10		alkalinity condition in that particular area.
11	Q	But you don't know of your own knowledge that a
12		probe was placed in that 40-acre tract and an
13		indication was made of its location, do you?

9		What makes me wonder about that is there is an
10		alkalinity condition in that particular area.
11	Q	But you don't know of your own knowledge that a
12		probe was placed in that 40-acre tract and an
13		indication was made of its location, do you?
14	A	I can't recall that I discussed that particular
15		tract as one of the tracts.
16	Q	Let's move to the east about a mile and a half
17		over to Section 21 and 22. Do you find a
18		23-acre tract there that is classified 3 gravity
19		and 6 sprinkler?
20	A	I'm sorry. I was trying to find myself.

Į

21 Q I'm sorry, 21, 22 --

22 A Okay.

. .

1

25

1

23 Q In the common south corner of those two sections.

24 A Okay. I'm there now.

kersich-cross-white

an an ann an t-airte an Charles an t-airte an t-ai

FRONTIER REPORTING SERVICE

4 1 M 14

		1522
1	Q	And there's a 23-acre tract classified 3 gravity,
2		6 sprinkler. Is there any hole whatsoever within
3		that parcel?
4	A	Within that 23-acre parcel there does not appear
5		to be any hole, no.
6		It's interesting though that he did classify
7		that as 3 for gravity and 6 for sprinkler. He
8		indicated heavy soils with alkalinity and
9		leveling problems.
10	Q	Would you please turn to Township 3 North, 2
11		West?
12	A	3 North, 2 West. Very good.
3	Q	Mr. Kersich, I direct your attention to a
14		137-acre tract in the south central portion of
15		that township which is classified 2 gravity,
16		2 sprinkler, and ask you if from your photograph
17		you are able to determine the section or sections
18		in which that tract is located?
19	A	Okay. This was 3 North, 2 West?
20 ÷	Q	Yes.
Ì	A	Are you referring to the section in Section 28 here?

```
A
                    Are you recerring to the section in Section 28 here?
21
                    Well, I can't find 28 on here.
           Q
22
                    Well, this would be 30 and this would be 29
           A
23
                     (indicating), 28.
24
           kersich-cross-white
25
                                   •
                .
                                                                                             . . . .
                                                     FRONTIER REPORTING SERVICE

    A Confection and A Confection
    A A Confection and A Confection
    A A Confection and A Confection
    A A Confection
    A A Confection

                                                                                               ADMINETELLE
CASER ARRESS
CASER ARRESS
```

5			15 ²³
	1	Q	Okay. Yes
	2	A	A 137-acre tract is classified as 2 gravity and
>	3		it indicates a soils deficiency and it's classified
5	4		as 2 for sprinkler and the denominator says it
B	5		has a medium textured surface soil, a light
r . 9	6		textured subsoil, or the next 3 feet, and then
9	7		it has gravel in the profile.
9	8	Q	Does that 137-acre tract extend into Section 27
0	9		as well to the east?
9	10	A	A very small portion of it does, yes.
- 5	10	Q	Does a portion extend to Section 33 to the south?
y	11	Ã	A very small portion, yes.
	12	Q	Is there any logged hole in that parcel?
7 9	13	A	Not in that particular parcel, no.
*	15	Q	To the southeast of that parcel
9	15	A	There's a probe though. I should get that on
9	16		the record. We did probe it. There's a probe
	17		indicated.
*	18	Q	There's no logged hole?
	20	A	No, but there is a probe.
19 19	20 21	Q	Now, about a half mile to the southeast there's
8 9	21		a 71-acre parcel that's primarily in Section 34
9	22 23	 1	and maybe in Section 33 to some small part and
9	23 24		Section 27 to small part which is classified
9		ker	rsich-cross-white
9 9	25		And MEST, Alto Statel FRONTIER REPORTING SERVICE

CASPER 114 92601 13071 211 1493

	21-11			
9			1524	
2	1	6 gravity and 4 spi	rinkler. Have you found that	
	2	71-acre parcel?		
eri -3	3	Yes, I have.		
			IAL MASTER: 6 gravity, 4	
	4	sprinkler?		
-	5	_	ESS: Classified 6 gravity,	
10 A A A A A A A A A A A A A A A A A A A	6		ESD: CIASSIIICA O gravedy	
	7	4 sprinkler.		
	8		IAL MASTER: All right. That's	
	9		y I think I have run into.	
New Parts	10	Is that about right	t?	
Company of	11	MR. WHIT	E: I think we have a few others.	
-	12	THE WITN	ESS: I believe so, sir. We	
	13	have had some othe:	rs.	
	14) (By Mr. White) Is	there any hole whatsoever in	
and the second s	15	that parcel?		
	16	No, that's a long	narrow parcel located across	
	17	the top of the sec	tion. There is a logged hole	
	18	indicated some 400	feet, 500 feet to the north.	
فلعسي	19	But that logged ho		
	20	Obviously, the clas	ssifier in doing his work,	
وبسي			ent on the Class 2 drilling	
فلعج	21		t portion here, and he separated	
9 ~9	22		and downgraded the parcel you	
	23	are referring to.	and downgraded the parcel you	
وسع	24			
5	25	ersich-cross-white		
69		an a	RONTIER REPORTING SERVICE	
53	1			

	21-12		
e e			1525
	1	Q	That logged hole you mentioned is about three-
8-98	2	~	quarters of a mile from the western edge of that
			parcel, isn't it?
L	3	A	I think the most important thing here is the
-0	4	A	
	5		distance north and south because the parcel
	6		appeared to be the same as far as characteristics
	7		in an east-west direction.
0	8	õ	Isn't it true that the logged hole you referred
	9		to is three-quarters of a mile from the western
19	10		edge of that parcel?
9	11	A	From the western no, it's not true.
	12	Q	How far is it?
y y	13	A	I'd say it's a half mile or a half to five-eighths
	14		of a mile.
y	15	Q	Okay.
9	16	A	The logged hole is shown to the west side of the
? 	17		center line, it appears to me, on my map and it's
-	18		five-eighths
	19	Q	That's also about a half mile away from the
9	20		eastern edge of that parcel, isn't that true?
49 - 19 - 19	20	A	Yes, that parcel does go down to a very small
-0			piece.
Ð	22	Q	To the east and slightly south of the 71-acre
9	23	**	parcel do you find a 93-acre parcel that's
9	24	kor	sich-cross-white
	25	ver	
רי די די	-		FRONTIER REPORTING SERVICE 201 M GMEST 6 CASER WY down
´	- ·		3.77 237 14, 4

201 ACGAEST B - C.1G CASEER 'AP 82151 307/237 1471

1 4

のためにたいため

	 1. J.			· ·
	 	•	· · ·	•

		1526
1		located in Sections 35 and 36 and is classified
2		3 gravity, 2 sprinkler?
3	A	Yes, there is a long narrow parcel abutting
4		another arable parcel.
5	Q	Is there any hole in that parcel?
6	A	In that parcel?
7	Q	Yes.
8	A	Not right in that parcel, no.
9	Q	Would you turn to Township 2 North, 3 West, please?
10	A	There are some other holes located south of that
11		though.
12		I'm sorry. I missed your township.
13	Q	2 North, 3 West.
14	A	2 North, 3 West.
15	Q	I'm sorry. I have to arrange my papers here.
16		You are much better organized than I am,
17		I'm sorry. I missed a couple parcels
18		I wanted to ask you about in 3 North, 2 West,
19		the one we were on before. Could we go back to
20	[that, please?
21	A	Yep.
22	Q	In Section
23	A	Wait a minute. Let me get it first.
24	Q	I'm sorry.
25	ker	sich-cross-white
		A 12 AF 1. 115 FRONTIER BEPORTING SERVICE 20' MDALLER
	ļ	Constant of the second se

 \dot{a}

22-1 L-CB 1528 1 Q (By Mr. White) And another parcel of 30 acres 2 classified 3 gravity 6 sprinkler? 3 A That's correct. 4 Q Is there any hole whatsoever within either of 5 those two parcels? 6 A There are no holes that I can see here, no. 7 Q Now, let's go to 2 North, 3 West. 8 THE SPECIAL MASTER: May I just ask a 9 question before you leave where you are? 10 THE WITNESS: Yes, sir. 11 THE SPECIAL MASTER: Are there any holes in 12 that general irrigated area within a mile 13 THE WITNESS: There is a Bureau hole 19 feet 14 deep, another Bureau hole 20 foot deep, a Bureau 15 hole 7 foot deep. 16 THE SPECIAL MASTER: What are there distances 17 from the two parcels just described? 18 THE SPECIAL MASTER: The two holes? 21 THE WITNESS: Yes. 22 THE SPECIAL MASTER: Okay. 23 THE WITNESS: I'm sorry. I didn't get the 24 Township.				·*'\\?
 classified 3 gravity 6 sprinkler? A That's correct. Q Is there any hole whatsoever within either of those two parcels? A There are no holes that I can see here, no. Q Now, let's go to 2 North, 3 West. B THE SPECIAL MASTER: May I just ask a question before you leave where you are? THE WITNESS: Yes, sir. THE SPECIAL MASTER: Are there any holes in that general irrigated area within a mile THE WITNESS: There is a Bureau hole 19 feet deep, another Bureau hole 20 foot deep, a Bureau hole 7 foot deep. THE SPECIAL MASTER: What are there distances from the two parcels just described? THE WITNESS: All right, the parcels, 18 and 30 acres, are located between 19 foot THE SPECIAL MASTER: The two holes? THE WITNESS: Yes. 	6	22-1 L-CB	1528	
 classified 3 gravity 6 sprinkler? That's correct. Is there any hole whatsoever within either of those two parcels? There are no holes that I can see here, no. Now, let's go to 2 North, 3 West. THE SPECIAL MASTER: May I just ask a question before you leave where you are? THE WITNESS: Yes, sir. THE WITNESS: There is a Bureau hole 19 feet that general irrigated area within a mile THE WITNESS: There is a Bureau hole 19 feet deep, another Bureau hole 20 foot deep, a Bureau hole 7 foot deep. THE SPECIAL MASTER: What are there distances from the two parcels just described? THE WITNESS: All right, the parcels, 18 and 30 acres, are located between 19 foot THE SPECIAL MASTER: The two holes? THE WITNESS: Yes. 		1	Q (By Mr. White) And another parcel of 30 acres	
 3 A That's correct. 4 Q Is there any hole whatsoever within either of those two parcels? 6 A There are no holes that I can see here, no. 7 Q Now, let's go to 2 North, 3 West. 8 THE SPECIAL MASTER: May I just ask a question before you leave where you are? 9 question before you leave where you are? 10 THE WITNESS; Yes, sir. 11 THE SPECIAL MASTER: Are there any holes in that general irrigated area within a mile 13 THE WITNESS: There is a Bureau hole 19 feet 14 deep, another Bureau hole 20 foot deep, a Bureau hole 7 foot deep. 16 THE SPECIAL MASTER: What are there distances from the two parcels just described? 18 THE WITNESS: All right, the parcels, 18 and 19 30 acres, are located between 19 foot 20 THE SPECIAL MASTER: The two holes? 21 THE WITNESS: I'm sorry. I didn't get the UTNESS: I'm sorry. I didn't get the Township. 		2		
4 Q Is there any hole whatsoever within either of those two parcels? 5 those two parcels? 6 A There are no holes that I can see here, no. 7 Q Now, let's go to 2 North, 3 West. 8 THE SPECIAL MASTER: May I just ask a 9 question before you leave where you are? 10 THE WITNESS: Yes, sir. 11 THE SPECIAL MASTER: Are there any holes in that general irrigated area within a mile 13 THE WITNESS: There is a Bureau hole 19 feet deep, another Bureau hole 20 foot deep, a Bureau hole 7 foot deep. 16 THE SPECIAL MASTER: What are there distances from the two parcels just described? 17 THE WITNESS: All right, the parcels, 18 and 30 acres, are located between 19 foot 20 THE SPECIAL MASTER: The two holes? 21 THE WITNESS: Yes. 22 THE SPECIAL MASTER: Okay. 23 THE WITNESS: I'm sorry. I didn't get the Township. 24 Township.	-0	3		
5 those two parcels? 6 A 7 Q 7 Q 9 (uestion before you leave where you are? 9 (uestion before you leave where you are? 10 THE WITNESS: Yes, sir. 11 THE SPECIAL MASTER: Are there any holes in 12 that general irrigated area within a mile 13 THE WITNESS: There is a Bureau hole 19 feet 14 deep, another Bureau hole 20 foot deep, a Bureau 15 hole 7 foot deep. 16 THE SPECIAL MASTER: What are there distances 17 from the two parcels just described? 18 THE WITNESS: All right, the parcels, 18 and 19 30 acres, are located between 19 foot 20 THE WITNESS: Yes. 21 THE WITNESS: Yes. 22 THE SPECIAL MASTER: Okay. 23 THE WITNESS: I'm sorry. I didn't get the 24 Township. 25 kersich-cross-white		4	Q Is there any hole whatsoever within either of	
 A There are no holes that I can see here, no. 7 Q Now, let's go to 2 North, 3 West. 8 THE SPECIAL MASTER: May I just ask a 9 question before you leave where you are? 10 THE WITNESS: Yes, sir. 11 THE SPECIAL MASTER: Are there any holes in 12 that general irrigated area within a mile 13 THE WITNESS: There is a Bureau hole 19 feet 14 deep, another Bureau hole 20 foot deep, a Bureau 15 hole 7 foot deep. 16 THE SPECIAL MASTER: What are there distances 17 from the two parcels just described? 18 THE WITNESS: All right, the parcels, 18 and 19 30 acres, are located between 19 foot 20 THE SPECIAL MASTER: The two holes? 21 THE WITNESS: Yes. 22 THE SPECIAL MASTER: Okay. 23 THE WITNESS: I'm sorry. I didn't get the 24 Township. 25 kersich-cross-white 		5	1	
7 Q Now, let's go to 2 North, 3 West. 8 THE SPECIAL MASTER: May I just ask a 9 question before you leave where you are? 10 THE WITNESS: Yes, sir. 11 THE WITNESS: Yes, sir. 12 that general irrigated area within a mile 13 THE WITNESS: There is a Bureau hole 19 feet 14 deep, another Bureau hole 20 foot deep, a Bureau 15 hole 7 foot deep. 16 THE SPECIAL MASTER: What are there distances 17 from the two parcels just described? 18 THE WITNESS: All right, the parcels, 18 and 19 30 acres, are located between 19 foot 20 THE WITNESS: Yes. 21 THE WITNESS: Yes. 22 THE SPECIAL MASTER: Okay. 23 THE WITNESS: I'm sorry. I didn't get the 24 Township. 25 kersich-cross-white		6		
8 THE SPECIAL MASTER: May I just ask a 9 question before you leave where you are? 10 THE WITNESS: Yes, sir. 11 THE SPECIAL MASTER: Are there any holes in 12 that general irrigated area within a mile 13 THE WITNESS: There is a Bureau hole 19 feet 14 deep, another Bureau hole 20 foot deep, a Bureau 15 hole 7 foot deep. 16 THE SPECIAL MASTER: What are there distances 17 from the two parcels just described? 18 THE WITNESS: All right, the parcels, 18 and 19 30 acres, are located between 19 foot 20 THE SPECIAL MASTER: Okay. 21 THE WITNESS: I'm sorry. I didn't get the 23 THE WITNESS: I'm sorry. I didn't get the 24 Township. 25 kersich-cross-white	e	7		
9 question before you leave where you are? 10 THE WITNESS: Yes, sir. 11 THE SPECIAL MASTER: Are there any holes in 12 that general irrigated area within a mile 13 THE WITNESS: There is a Bureau hole 19 feet 14 deep, another Bureau hole 20 foot deep, a Bureau 15 hole 7 foot deep. 16 THE SPECIAL MASTER: What are there distances 17 from the two parcels just described? 18 THE WITNESS: All right, the parcels, 18 and 19 30 acres, are located between 19 foot 20 THE SPECIAL MASTER: The two holes? 21 THE WITNESS: Yes. 22 THE SPECIAL MASTER: Okay. 23 THE WITNESS: I'm sorry. I didn't get the 24 Township. 25 kersich-cross-white	-0	8) · · ·	
10 THE WITNESS: Yes, sir. 11 THE SPECIAL MASTER: Are there any holes in 12 that general irrigated area within a mile 13 THE WITNESS: There is a Bureau hole 19 feet 14 deep, another Bureau hole 20 foot deep, a Bureau 15 hole 7 foot deep. 16 THE SPECIAL MASTER: What are there distances 17 from the two parcels just described? 18 THE WITNESS: All right, the parcels, 18 and 19 30 acres, are located between 19 foot 20 THE SPECIAL MASTER: The two holes? 21 THE WITNESS: Yes. 22 THE WITNESS: I'm BORTY. I didn't get the 23 THE WITNESS: I'm BORTY. I didn't get the 24 TOWNShip. 25 Kersich-cross-white		9		
11THE SPECIAL MASTER: Are there any holes in12that general irrigated area within a mile13THE WITNESS: There is a Bureau hole 19 feet14deep, another Bureau hole 20 foot deep, a Bureau15hole 7 foot deep.16THE SPECIAL MASTER: What are there distances17from the two parcels just described?18THE WITNESS: All right, the parcels, 18 and1930 acres, are located between 19 foot20THE SPECIAL MASTER: The two holes?21THE WITNESS: Yes.22THE SPECIAL MASTER: Okay.23THE WITNESS: I'm sorry. I didn't get the24Township.25kersich-cross-white				
12 that general irrigated area within a mile 13 THE WITNESS: There is a Bureau hole 19 feet 14 deep, another Bureau hole 20 foot deep, a Bureau 15 hole 7 foot deep. 16 THE SPECIAL MASTER: What are there distances 17 from the two parcels just described? 18 THE WITNESS: All right, the parcels, 18 and 19 30 acres, are located between 19 foot 20 THE SPECIAL MASTER: The two holes? 21 THE WITNESS: Yes. 22 THE SPECIAL MASTER: Okay. 23 THE WITNESS: I'm sorry. I didn't get the 24 Township. 25 kersich-cross-white		11		
13 THE WITNESS: There is a Bureau hole 19 feet 14 deep, another Bureau hole 20 foot deep, a Bureau 15 hole 7 foot deep. 16 THE SPECIAL MASTER: What are there distances 17 from the two parcels just described? 18 THE WITNESS: All right, the parcels, 18 and 19 30 acres, are located between 19 foot 20 THE SPECIAL MASTER: The two holes? 21 THE WITNESS: Yes. 22 THE SPECIAL MASTER: Okay. 23 THE WITNESS: I'm sorry. I didn't get the 24 Township. 25 kersich-cross-white		12	1 -	
14deep, another Bureau hole 20 foot deep, a Bureau15hole 7 foot deep.16THE SPECIAL MASTER: What are there distances17from the two parcels just described?18THE WITNESS: All right, the parcels, 18 and1930 acres, are located between 19 foot20THE SPECIAL MASTER: The two holes?21THE WITNESS: Yes.22THE SPECIAL MASTER: Okay.23THE WITNESS: I'm sorry. I didn't get the24Township.25kersich-cross-white		13	<u>}</u>	
15hole 7 foot deep.16THE SPECIAL MASTER: What are there distances17from the two parcels just described?18THE WITNESS: All right, the parcels, 18 and1930 acres, are located between 19 foot20THE SPECIAL MASTER: The two holes?21THE WITNESS: Yes.22THE SPECIAL MASTER: Okay.23THE WITNESS: I'm sorry. I didn't get the24Township.25kersich-cross-white		14	1	
17 from the two parcels just described? 18 THE WITNESS: All right, the parcels, 18 and 19 30 acres, are located between 19 foot 20 THE SPECIAL MASTER: The two holes? 21 THE WITNESS: Yes. 22 THE SPECIAL MASTER: Okay. 23 THE WITNESS: I'm sorry. I didn't get the 24 Township. 25 kersich-cross-white		15		
17 from the two parcels just described? 18 THE WITNESS: All right, the parcels, 18 and 19 30 acres, are located between 19 foot 20 THE SPECIAL MASTER: The two holes? 21 THE WITNESS: Yes. 22 THE SPECIAL MASTER: Okay. 23 THE WITNESS: I'm sorry. I didn't get the 24 Township. 25 kersich-cross-white		16	THE SPECIAL MASTER: What are there distances	
19 30 acres, are located between 19 foot 20 THE SPECIAL MASTER: The two holes? 21 THE WITNESS: Yes. 22 THE SPECIAL MASTER: Okay. 23 THE WITNESS: I'm sorry. I didn't get the 24 Township. 25 kersich-cross-white		17		
1930 acres, are located between 19 foot20THE SPECIAL MASTER: The two holes?21THE WITNESS: Yes.22THE SPECIAL MASTER: Okay.23THE WITNESS: I'm sorry. I didn't get the24Township.25kersich-cross-white		18	THE WITNESS: All right, the parcels, 18 and	
20 THE SPECIAL MASTER: The two holes? 21 THE WITNESS: Yes. 22 THE SPECIAL MASTER: Okay. 23 THE WITNESS: I'm sorry. I didn't get the 24 Township. 25 kersich-cross-white		19		
21 THE WITNESS: Yes. 22 THE SPECIAL MASTER: Okay. 23 THE WITNESS: I'm sorry. I didn't get the 24 Township. 25 kersich-cross-white		20	THE SPECIAL MASTER: The two holes?	
22 THE SPECIAL MASTER: Okay. 23 THE WITNESS: I'm sorry. I didn't get the 24 Township. 25 kersich-cross-white		21	THE WITNESS: Yes.	
23 THE WITNESS: I'm sorry. I didn't get the 24 Township. 25 kersich-cross-white	-3	22	THE SPECIAL MASTER: Okay.	
24 Township. 25 kersich-cross-white		23	-	
25 kersich-cross-white auguest 241651481 Child Dir Wrd2001 FRONTIER REPORTING SERVICE		24		
ALL DEST 24TH STHEET FRONTIER REPORTING SERVICE 2011	-0	25	kersich-cross-white	
(307, 93, 826)	-3	••••••••••••••••••••••••••••••••••••••		

. . .

0	······································		
0	22-2		1529
6-10			
	1		MR. WHITE: 2 North, 3 West.
6	2	A	2 North, 3 West.
6-3	3	Q	Sections 17 and 18.
	4	A	Let's see. That would be Section okay. I
	5		have found myself here.
-	6	Q	Did you find a 130-acre parcel that was class-
-	7		ified 6 gravity, 3 sprinkler?
-	8	A	6 gravity, 3 sprinkler.
	9	Q	Did you find that in Section 17 or 18 or am I
	10	-	in the wrong section?
-		A	It extends into both Sections 17 and 18, yes.
ente	11		
estate -	12	Q	Is there any logged hole in that parcel, that
	13		130-acre parcel?
	14	A	No, sir. There is a the information on the
	15		aerial photo I have shows a probe, it shows, in
-	16		fact, that the grade was steep. It was 12 percent
-	17		at this point.
-	18	Q	Let's go about four or five miles to the east.
	19	A	Four or five miles to the east?
	20	Q	Yes, sir.
	21	A	Have you got the section?
-0	22	Q	Section 14.
0	 23	A	What is it, sir?
	23	Q	Section 14, along the east edge of Section 14.
			ich-cross-white
C	25	Kers	
C ^m			4 PORTER APORTING SERVICE 201 MDA51 BURDING CASER AF 62-21 (2020, 0.22, 0.24) CASER AF 62-01 (307/237.1433)

~

A survey and the second second second

A STREET AND A STREET

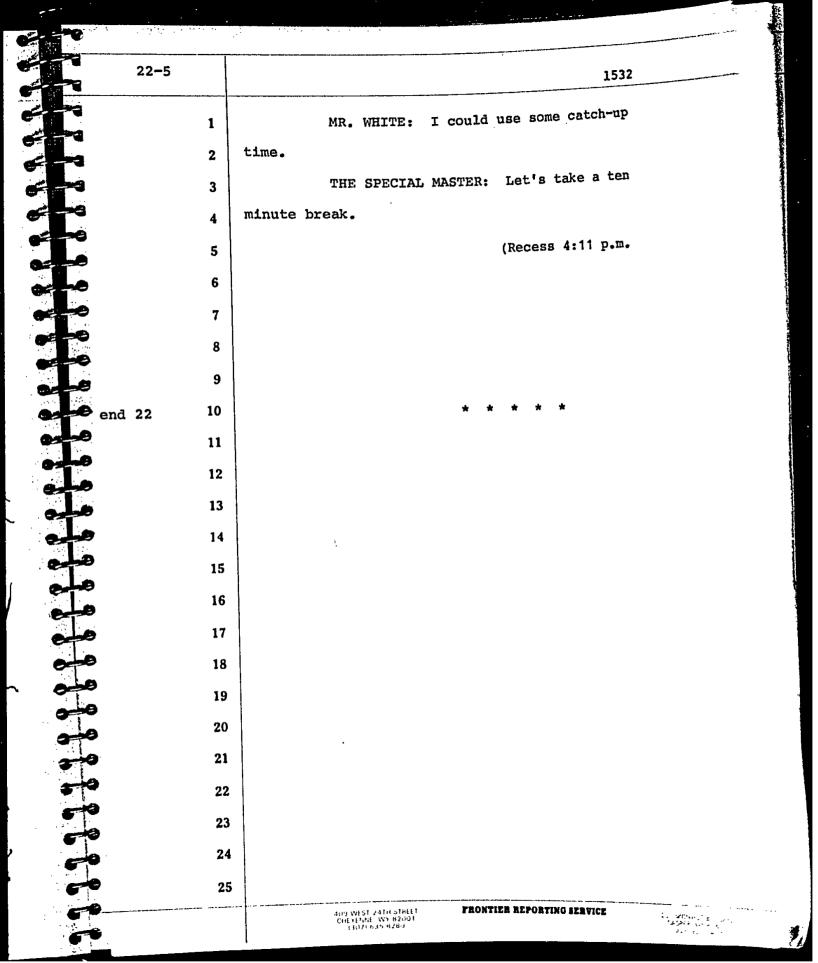
6		
	22-3	
		1530
	1	A Okay. Okay.
	2	Q Do you find the 16-acre tract there that was
	3	classified 3 gravity 6 sprinker?
Garage	4	A 3 gravity, 16-acres, 6 sprinkler. Yes, I've
6	5	found it.
	6	Q Is there any logged hole in that parcel?
0	7	A Not in the parcel, there is one just to the west
0243	8	of it.
	9	It is kind of interesting, the parcel on
	10	the west was 20gravity and 1 sprinkler and this
-	11	little piece was downgraded to 3 and 6.
(Contraction)	12	Q Now, it is interesting there in that 139-acre
	13	parcel on the west that you show a 10-foot draw
	14	in a Class 1 or a 10-foot deep draw in a
	15	Class 1 sprinkler area, don't you?
ويستع		A That's right.
in the second	16	
	17	Q Okay.
	18	THE SPECIAL MASTER: Now, was that Class 1
	19	sprinkler area or was it a Class 3 sprinkler?
	20	THE WITNESS: It is the area just to the
C	21	east of it.
	22	MR. WHITE: The one we were talking about,
	23	Your Honor,
64	24	THE WITNESS: To me, I think that is interesting
	25	kersich-cross-white
A		ADS WEST A THE STREET FRONTIER REPORTING SERVICE
7		Children and Advisor (30) And Advisor Children and Children and Ch

22-4 1531 1 because it points out that the classifier understood the problems of the agrigultural engineer and pointed 2 3 that out to him so he could handle it in his design. 4 MR. WHITE: I was pointing, the original question there, where there's no hole is this small 5 6 16-acre parcel then I went, Your Honor, to --THE SPECIAL MASTER: Immediately west? 7 MR. WHITE: -- to the west to the 139-acre 8 9 parcel. 10 THE SPECIAL MASTER: Not the 130. I see. 11 Q (by Mr. White) Does that symbol in the 139-acre 12 parcel indicate a 10-foot deep draw? 13 It appears to be, yes. Α 14 And the land in which that draw is located is 0 15 classified as Class 1 sprinkler? Yes. 16 А MR. WHITE: That's all for Big Horn Flats 17 right now. It would be a good time to take a short 18 break, Your Honor. 19 THE WITNESS: If we could --20 THE SPECIAL MASTER: It is ten after four. 21 Do you want to go another hour? If so, we'll take a 22 five minute break, if not, we'll go right on. Do you 23 want a little catch-up time? 24 kersich-cross-white 25

> 40 / GEST 2414 STREE - CREEFSTREE AS 44 2 P - 73 27 10 15 6270

FRONTIER REPORTING SERVICE

201 MIDAEST BUIDING CASPER, VY 82601 (307) 237 1433



3	
23-1 MR-CB	1533
	THE SPECIAL MASTER: All right, shall we go?
2	MR. WHITE: Your Honor, I think there was
3	an agreement among Counsel that we'd go another 20
4	minutes if that would be all right with you, Your
5	Honor.
	THE SPECIAL MASTER: All right.
	Q (By Mr. White) Let's turn to the Owl Creek area.
8	A Okay, sir.
9	Q On the Big Horn Flats area. In Township 8 North,
	2 East, Section 1.
11	A Well, with these photographs I have it's hard to
12	determine townships.
13	Q Look in the lower right-hand corner and see if
14	you can find the photograph that has 44 North and
15	98 West.
16	A I've got it here, yes.
e 17	Q Okay. And you see the second section to the left
18	on the bottom right-hand corner?
19	A Yes.
20	Q Is that Section 1 in Range 2 East, 8 North?
21	A It's in Range 2 East, and it would I'm sorry,
22	could I take time to get the exhibit, cross check
23	myself here?
24	THE SPECIAL MASTER: Sure.
25	kersich-cross-white
	FRONTIER REPORTING SERVICE UNIT MONEST BUILDING UNIT NAL AND ALST BUILDING (107/1 0) 87/80 0377 237 1493
	(137) 237 1493

×.

e D	23-2	1534
	1	MR. WHITE: Sure.
of the second	2	(Brief pause.)
	3	THE WITNESS: I found it.
	4	Q (By Mr. White) I got the wrong township.
	5	A Its Range Well, I don't think that's important
	6	because this photograph goes above the
0	7	Q That has to be Township 8 North, doesn't it?
65-23	8	A I got the parcel, I know its located here.
	9	Q That's the parcel that's shown on Exhibit C-52
	10	in the Section 1 that's just above the Standard
Que 250	11	Area Boundary, and just below the Second Standard
	12	Parallel North; is that correct?
	13	A That's correct.
	14	Q Okay. You find a 75-acre tract there that's
	15	classified 6 gravity, 2 sprinkler?
0-210	16	A That's correct.
	17	Q Is there any hole whatsoever within that 75-acre
	18	tract?
	19	A Not directly. There is a hole three, four
-	20	hundred feet to the west of that parcel, and the
	20	boundary line falls on the east side of the
		drainage there.
53	22	MR. ECHOHAWK: Your Honor, I'd like to
Contras,	23	object at this time. I think it's Mr. White's
600	24	kersich-cross-white
	25	
640		PROVINCE AND

· · · ·

*

-

intention to go through, to keep on doing this to point out particular areas where there's no holes and the United States has no problem with Mr. Kersich when he says in certain parcels there are no holes. I think the whole matter can be cleared up just by inquiring whether it's necessary to have a hole in each particular parcel. I think this is a terrible waste of everyone's time.

THE SPECIAL MASTER: Well, I think he 9 10 explained it on the specific nature and identity and 11 characteristics of each particular parcel, and some places it's been almost obvious that there is no need 12 13 for a hole. On others where there is a couple of hundred acres and no holes anywhere and no probes, it 14 may raise a reasonable doubt to the wisdom of having it 15 classified as it was. So I think it's getting 16 accomplished, and if not too many more inquires this 17 way, we might have a few more because it does serve 18 a purpose of testing the expertise, the professionalism 19 and the quality of accuracy that went into these 20 classifications, and some of them may be embarrassingly 21 left with a little bit of a hole in there, and he 22 says he's not a perfect man like the rest of us. I think 23 we said last week no one has a monopoly on perfection 24

FRONTIER REPORTING SERVICE

211 M DWEST B 211 43 CASSER WY B2603 1307: 237 1471

25 | kersich-cross-white

EXEMPT 2474 THEFT CONTENT OF ACTION ACTION ACTION

23-3

2

22

2.2

2.0

22

لتتحكي

اللحطي

Ød

Ðg

2-9

1

2

3

4

5

6

7

8

	1997 - 19	
23-4		1536
3		
	1	or virtue in this world except the publishers of
	2	Playboy.
	3	But I would say if the questions go on in
	4	this way, allowing the most maximum latitude to the
	5	witness as to his explanations after the direct answer,
	6	a few more I think I'll listen to them.
	7	MR. WHITE: Thank you, Your Honor.
	8	THE SPECIAL MASTER: Without prejudicing
	9	or raising it again, if you think he is going too far.
	10	
	11	
	12	
	13	ļ
end 23	14	* * * *
	15	ļ
	16	
C.	17	1
G	18	
	19	
	20	1
-0	21	
	22	
	23	Į
0	24	ļ .
-	25	-
		407 WEST 2114 STREET FRONTIER REPORTING SERVICE 201 MDWEST BUILDING CHETENSE WIT 822 CT CASER, WY 82601 C307/5/2020 307/32/1423

×1

6		
	24-1 V-e	1537
	1	MR. WHITE: I would like to state for the
	2	record that we are not in any way trying to impugn the
6-	· 3	professionalism of Mr. Kersich. I have got
e	4	I would be ashamed to make any suggestion that
0-1-9	5	we would try to impugn his professionalism.
	6	I am trying to point out, Your Honor
	7	and the purpose of this line of questioning is
6	8	that there may be insufficient data upon which to
0=	9	make the classification, and I'm not impugning his
	10	professional abilities at all.
0.	11	THE SPECIAL MASTER: Very well, Mr. White.
0	12	THE WITNESS: Do I have a chance to take that
Elen a	13	particular statement and xerox it and send it out
· · · · · · · · · · · · · · · · · · ·	14	to my clients?
	15	MR. WHITE: Well, that's probably the best
	16	or the worst endorsement you could have.
	17	THE WITNESS: No, but I think it proves that
enter	18	we know what we are doing out there,
	19	I might point out there was another hole,
6	20	59 in the tract directly east of that. It's not
	21	as if there wasn't any information there.
	22	Q. (By Mr. White) Was that a probe or a hole?
	23	A That was a hole.
		Q. That didn't tell you the depth to barrier?
6-0	24	kersich - cross - white
6	25	
		A DEWEST 2436 STORET FRONTIER REPORTING SERVICE 225 With the second service 255 With the second second service 255 With the second seco

۲. s

h

¥,

	24-2	1538
-		
-	1	A. I would have to look at logged hole 60. Do you want
	2	me to do that?
	3	Q. Logged hole 60 is the closest hole to that, isnt' it?
	4	THE WITNESS: Could we go off the record?
	5	THE SPECIAL MASTER: Yes.
	6	(Off-the-record discussion.
Contraction of the second seco	7	A. (By the Witness) No, I don't see anything in this
	8	Township.
	9	Q (By Mr. White) Do you want me to give you a copy?
0	10	A. Sure.
	11	Q I don't know if you can read the xerox copy there
0-5-0-5- (7)	12	very well.
	13	A. This particular hole was logged by Ross Waples
0	14	again. I might just read it into the record, the
e	15	log. The way he made his decision, I think it's
e	16	pretty interesting.
Lu	17	Q Let me ask you about the log. The question was, I
	18	believe, how you could tell the barrier was at least
outres	19	six foot deep from the log of Hole 60 which was
	20	the closest hole to that parcel.
3-03	21	A. He had two things here. He was able to hand drill
	22	this log to 72 inches with no problems. He went
	23	through clay loamy textures to clays. He noted at
	24	the end of the hole here at the 72 inches that he
G49	25	kersich - cross - white
G-9	ین - این د او د مدیندیندید د رومورو او بیند	ANY ANY ATTA THE FRONTIER REPORTING SERVICE
		Contraction of the second seco

۰.

	3	1
	24-3	1539
	•••	the state profile.
6		hit shale and there was heavy salts in this profile,
-	 2	and he declared the land and also the color
5	3	changed on him, interestingly enough, but he did
	4	put down a boundary that went beyond the hole.
	5	In other words, the hole, in his estimation,
	5	denoted Class 6 soils were nonarable soils.
e	7 ق	Q Is shale not a barrier?
C	8	A. It depends on the type of shale, how hard it
0	9	is and what the hydraulic conductivity is.
		THE SPECIAL MASTER: What was the basis for his
	20 11	making it 2 sprinkler?
0=		
	12	THE WITNESS: It's not classified, sir, as
05	13	sprinkler. That's all Class 6 lands out here, where
0	- 14 	the hole is.
0	15	THE SPECIAL MASTER: Oh, I beg your pardon.
	16	I thought that was 2 sprinkler.
	17	MR. WHITE: The 75 acres that we are referring
	18	to, Your Honor, I believe Mr. Kersich will verify,
	19	is 2 sprinkler.
-	20	Q (By Mr. White) Isn't that correct?
	21	A Yes, but this hole is outside the sprinkler area.
	2 2	I think we ought to keep the record straight on
-	-11	that.
Ŧ	23	THE SPECIAL MASTER: All right. Thank you.
æ	24	kersich - cross - white
•	25	
1	~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~	46.2 WAST 2419 STREET FRONTIER REPORTING SERVICE 201 W DALST B., 6 YG (19 14 Street WY W/(201) (3.37 6, 15 8.29 Street WY W/(201)
		(3)7 6,45 826 (CASER A 9251 (357 247 143)

ľ

D - Witten and		
		1540
	24-4	
	1	Q (By Mr. White) - That's the closest hole to that
	2	parcel?
5	3	A. That's the closest hole to that parcel, and there
	4	is a boundary between there is a drainage here.
	5	Many times there are cut banks and exposed banks
e	6	where a land classifier can examine the profile
e	7	from there.
	8	THE SPECIAL MASTER: When you say there's
	9	a drainage there, does that mean there's a ditch
	10	dug to drain the land?
	11	THE WITNESS: No.
	12	THE SPECIAL MASTER: It's a natural drainage?
	13	THE WITNESS: Yes, a natural drainage.
and the second s	14	Q (By Mr. White) Isn't it true that the log for
1	15	Hole 60 shows that shale was encountered at the
	16	42-inch level?
and the second second	17	A. Normally what a land classifier does in this
and the second	18	situation is put the final material. He has
	19	classified this as clay, so obviously he wouldn't
	20	be in clay at 42 inches, so he hit shales, and he
and the second s	21	hit these heavy soils in that area, and he
3	22	classified it as nonarable.
2	23	Q Owl Creek is an easy one. There wasn't much there.
	24	Let's go to Arapahoe.
	25	kersich - cross - white
50		409 WEST 2419 STREET FRONTIER REPORTING SERVICE 201 WOARST 2
<u>_</u>		(307) 635 6280 (307) 237 1435

×1

AND STREET

723				
	24-5		15	41
	1	A. Giv	e me the Township and Range, please.	
	2		THE SPECIAL MASTER: That should be the smal	llest
	3	in	the bunch.	
	4		MR. WHITE: No, Owl Creek is.	
	5	*	THE WITNESS: There's less than 4,000 acres	
	6	on	Arapahoe.	
e=====	7		THE SPECIAL MASTER: Arapahoe is, yes, 3,81	4.
	8	Tha	t should be very small, 4,016 on the	
	9	Q. (By	Mr. White) Let's go to 1 South, 3 East, Sec	tica
	· 10	20.		
Cr5-240	11	A. Sec	tion 20, yeah.	
	12	Q. Ove	er in the west half.	
	13	A. Yes	3.	
	14	Q. The	ere's a parcel of 14 acres that's 3 gravity,	
C-2	15	б я	prinkler?	
E- P-	16	A. Yes	, it's a parcel that says light texture both	
Lus	17	at	subsurface and a shaped factor for the gravit	cy
فتعلين	18	and	l a little gradient.	
	19	Q. Is	there any logged hole within that parcel?	
	20	A. Not	: within that hole. There is a Bureau hole, c	of
3-9-9	21	cou	urse, located just directly to the west of the	at.
3	22	Q. Let	's go about two miles to the east, Section 21	1.
5-13	23	Do	you find I'm not sure whether it's an 82	
	24	or	an 80-acre parcel.	
5-13	25	Kersich	- cross - white	
5-8			400 WEST 241H STATE1 PRONTIER REPORTING SERVICE 2019 (CHEVENNE, WE 82%) (30(2): 649 8290 (CHEVEN	
5 - C	l		(15) 	

9/

	24-6	1542
	1	A. On my map it appears to be 82 acres.
	2	Q And it's classified 6 gravity, 2 sprinkler?
	3	A. Yes.
	4	Q And is there any logged hole within that parcel?
	5	A. Not within the hole, but here again there's a
	6	deep hole of ours located just to the east of that
	7	parcel, and it shows 18 feet to sandstone.
	8	And that distance from that deep hole to the
6	9	western edge of the 82-acre parcel is approximately
	-	a half a mile, isn't it, or a little bit more?
	10	
	11	A. I'd say it's a half a mile or eight-tenths
	12	yeah, a little bit more. There is a Bureau hole
Contraction of the second	13	down well, from the western edge to the Bureau
	14	hole there would be a quarter of a mile or less.
	15	Q. Talking about Bureau Hole 10?
	16	A. Yes, sir.
Con 240	17	Q Isn't it true that Bureau Hole 10 only goes to five
C-L-20	18	feet?
	19	A. It may well be, but that certainly is enough
	20	information to assist anyone working on that.
and the second	21	Q Do you see just to the northeast of that 82-acre
and the	22	parcel in Section 21 Bureau Hole 12 on the other
3-4-53	23	side of the 82-acre parcel?
	24	A I see a Bureau Hole 1, 2 there might be.
	25	kersich - cross - white
		4 " Ment Start Het" FRONTIER REPORTING BERVICE
		CHEASTAND WEARD CASES CASES AND BURNING STRVICE 2014 WOMST BULGE CASES AND BURN (303) 237-1433

ÿ,

وي ويويد معد م

	······		
-			يەرى. ب
	24-7	1543	
	. 1	There's a Bureau hole that I can't read the number	
	2	on by the FIP boundary. That's the boundary by	
	3	the FIP, as I recall.	
	4	Q Right above the 62	
	5	A. Well, it's above the 2 and just slightly to the east.	
	6	Q You don't read that as a 12?	
	7	A I can't read it as anything.	
	8	Q How about the Hole No. 11 just to the south of that	
	9	82-acre parcel? Can you find that, the Bureau of	
-	10	Reclamation Hole?	
	11	A Yes, I can find it, but I don't know what the log	
	12	on it is. There's a hole of ours though that	
e	13	appears to be just slightly to the south and east	
	14	of that.	
	15	Q Let me hand you a copy of the logs for those	
	16	Bureau of Reclamation holes that bracket that 82-2	
	17	parcel on the north and the south and ask you	
	18	whether or not all of those holes are only five	
~C	19	feet in depth.	
6	20	A. They appear to be 60 inches in depth, Hole 12	
	21	let's see. Hole 10. Where is that? Yeah, I'd	
	22	have to look at the hole sheet to make sure that	
6	23	this 60 inches is for this hole also.	
	23	Q Well, maybe we can get the hole sheets out.	
	25	kersich - cross - white	
		SOFWEST 7419 STRATT FRONTIER REPORTING SERVICE	
		DESERVED AND DESERVED ADDRESSED ADDRESS	

2 - 10		
	24-8	1544
	1	Do you have a hole sheets with you?
	2	A No. I would like to check on that a minute, but
	3	I don't believe we brought them down.
	4	MR. ECHOHAWK: I would like to object to that
	5	in that he represents that those are Bureau of
	. 6	Reclamation holes and we have no foundation that
3	7	that is, in fact, what they are.
2	8	THE SPECIAL MASTER: I will sustain the
	9	objection.
0	10	MR. WHITE: Do you want to get it out,
	11	fellows?
	12	Q. (By Mr. White) Mr. Kersich, do you know what a
	13	Bureau of Reclamation hole log looks like?
	14	THE SPECIAL MASTER: You have seen a couple
3	15	of million.
	16	A. (By the Witness) I have seen them.
	17	Q. (By Mr. White) These look like Bureau of Reclamation
2	18	hole logs?
	19	THE SPECIAL MASTER: Let's let him find it.
	20	It's a close enough matter that factually it isn't
	21	going to make that much difference, but you may ge
C	22	ahead. You are showing that it was one foot shortar
C-bet	23	than what the criteria is supposed to be?
	24	MR. WHITE: Yes.
	25	kersich - cross - white
61		A DEWLST ZATION THE PRONTING SERVICE
Const.		

Ž

24-9		
	1	THE WITNES
	2	THE SPECIA

4

5

6

7

8

9

10

11

12

13

14

15

16

17

18

19

20

21

22

23

24

25

CHEENSE WE827 (107) 035 9250

THE WITNESS: Can I clear that up? THE SPECIAL MASTER: Let's wait a minute until he gets the exhibit. I know that other factors mitigate on what he is doing on that.

THE WITNESS: But we have a deep hole in that area.

MR. ECHOHAWK: Which page are we talking about? MR. WHITE: It should be Sections 21 and 28, folks, 1 South, 3 East.

(Off-the-record discussion.

MR. ECHOHAWK: I'm going to find the thing you are talking about.

MS. SLEATER: But we could be here for quite a long time.

MR. WHITE: Let's go ahead.

THE SPECIAL MASTER: In the interest of time, Mr. Echohawk, would you remove your objections long enough -- I would ask you to consider if you wish to remove the objection -- the objection has been sustained, and they are looking now for something to prove it as a Bureau of Reclamation log. Mr. Kersich has additional information he wants to give regarding those holes, and I want him to give that and it may be that upon your hearing it you kersich - cross - white

FRONTIER REPORTING SERVICE

24-10			1546
		•	
	1	may not care about whether the objection is n	nade
	2	or not because your point having been served	as
	3	far as the evidence is concerned.	
	4	Will you go ahead with what you had, Mr	•
	5	Kersich?	
	6		
	7		
	8		
	9		
	10		
	11		
	12	* * * * *	
	13		
	14		
	15		
	16		
	17		
	18		
	19		
	20		
	21		
	22		
	23		
	24	·	
	25		
		40.) WEST 241H STREET FRONTIER REPORTING SERVICE CHETENNE WY 82001 (3074 635 8280	201 M UNEST BURCH CASPER, AV 32801 13071 237-1433
			137, 237-1433

ANEL MILLING

		· · · · · · · · · · · · · · · · · · ·	
-	25-1	L~CB	
-			
-		1	A We have a deep hole located right in the reaction
6		2	that's a piece of land which has been classified
-		3	as 6 gravity, 2 sprinkler.
-		4	THE SPECIAL MASTER: 2 sprintler?
		5	A And also it is contiguous or associated with
-		6	another tract of land which has been constituted
		7	as 3 gravity and 1 sprinkler and located museum
		8	almost on the section line between Sections
I		9	and 27. Slightly east of the intersections and
		10	Sections 21, 22, 27 and 28 is a hole that T.L.
		11	drilled and in perusing the logs, I shower the
		12	depth of that hole as being 18 feet to samintant
		13	in that particular area.
		14	Q (By Mr. White) Mr. Kersich, is that hele at
		15	the parcel, the 82-acre parcel?
		16	A No, it is about 100 feet to the east of the
		17	eastern edge of that parcel, sir.
e		18	Q And isn't it about, at least a half mile for the
		19	western edge of that parcel?
		20	A Yes, it is.
6		21	Q And aren't the three Bureau holes, which are
erit and		22	shown on your photograph, closer to that parcel
		23	than your H.K.M. deep hole?
- الشتي		24	A No, I would say hole No. 11 isn't closer to the
6		25	kersich-cross-white
			Sector State Sector Sec
	······································		

in for a firm of the second

Í

ς.

jë,

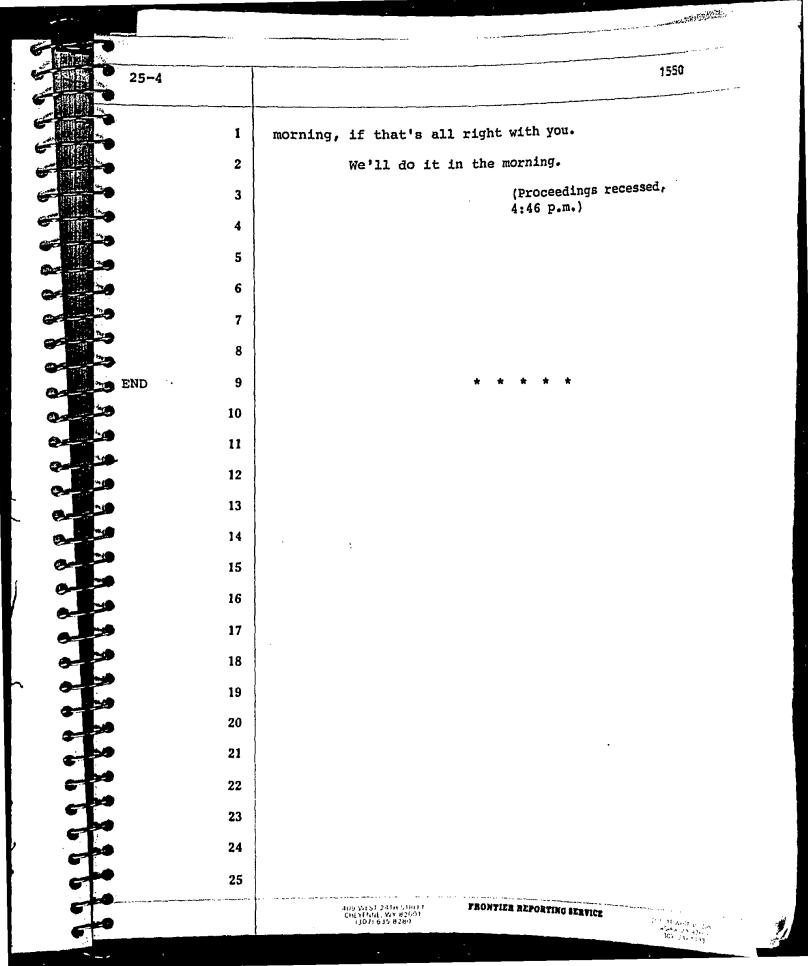
	_		- 10
	25-2		1548
		······································	n antanan mar a sa kananan ana a sana nanganan kanan mana kananan ana angana kananan kanan kanan kanan kanan k
	1	parcel.	
	2	Let me ask you, c	closer to the center of the
	3	parcel?	
	4	Center of the par	cel? Well, here again I would
	5		, H.K.M.'s hole is closer than
	6		ne center of the parcel.
	7		in Sections 29 and 30
	. 8	29 and 30? Okay,	
	9		sed one up here that I want to
	10	ask you about.on	the common borders between
	11	Sections 22 and 2	27.
	12	22 and 27? Are w	we back now to where we were
	13	discussing a mome	ent ago, sir?
	14	Close.	
	15	Oh, 22 and 27.	Dkay, yes.
	16	You have a large	block of fee land in there and
-	17	to the left of th	hat is, it looks like either a
	18	parcel of 50, mag	ybe 59 acres?
	19	I believe it is	50 acres.
	20	Fifty acres?	
	21	Yes.	
	 22		ty 1, sprinkler
		That's correct.	
C	23		o what approve the t
6	24		e whatsoever within that parcel?
	25	ersich-cross-white	
	<u></u>	to y Ar Dig Green and Constant of the second s	PRONTIEB BEFORTING SERVICE

Ç

	4 * KI
25-3	1543
1	A There is no hole in that parcel. We've got to
2	again point out there was sufficient the
3	classifier developed sufficient informatin to
4	put light textured soils for the soils in the
5	top four feet, a J factor and a leveling for
6	the surface.
7	MR. WHITE: Your Honor, this would be a
8	good time to take a break.
9	THE SPECIAL MASTER: Do you want to call it
10	a day? Start at 9:15 in the morning.
11	THE WITNESS: Thank you.
12	THE SPECIAL MASTER: All right, we'll stand
13	in recess until 9:15 in the morning. We can leave our
14	material in the room.
15	(Off-the-record discussion.)
16	MR. WHITE: Your Honor, could we go back
17	on the record just so we can
18	THE SPECIAL MASTER: Do you want to do it
19	tonight or do you want to do it in the morning?
20	MR. WHITE: It will just take a minute, then
21	we won't have to worry about it.
22	THE WITNESS: I would like to work on the
23	whole thing.
24	THE SPECIAL MASTER: Let's wait until the
25	kersich-cross-white
	AND WEST 24TO STOLET FRONTIER REPORTING SERVICE

میں اس

Gil



1	REPORTERS' CERTIFICATE
2	State of Wyoming)
3	: SS County of Laramie)
4	We, Lamont Miller, Merissa Racine, Viola J.
5	Lundberg, Registered Professional Reporters and Notaries
6	Public, hereby certify that the facts as stated in
7	the caption hereof are true; that we did at the time,
8	date and place, as set forth, report the proceedings
9	had before the Honorable Teno Roncalio, Special Master,
10	in stenotype; that the foregoing pages, numbered 1351-
11	1550, inclusive, constitute a true, correct and complete
12	transcript of our stenographic notes as reduced to type-
13	written form under our direction.
14	We further certify that we are not agents, attor-
15	neys or counsel for any of the parties hereto, nor are
16	we interested in the outcome thereof.
17	Dated this 10th day of February, 1981.
18	1 5 M
19	Land Stelle Merisa Varine
20	LAMONT MILLER MERISSA RACINE Registered Professional Registered Professional
21	Reporter Reporter
22	4) 100
23	VIOLA J. LUNDBERG
24	Registered Professional Reporter
25	
	46.2 AEST 24TH STHEET FRONTIER REPORTING SERVICE
	8.71935, 02019 GADES // 02019 - 407, 237, 237, 237

(F)

.17

~