No. 141, Original

In the

SUPREME COURT OF THE UNITED STATES

STATE OF TEXAS,

Plaintiff,

v.

STATE OF NEW MEXICO and STATE OF COLORADO,

Defendants.

OFFICE OF THE SPECIAL MASTER

THE STATE OF TEXAS'S SUPPLEMENTAL APPENDIX OF EVIDENCE IN SUPPORT OF THE STATE OF TEXAS'S MOTION FOR PARTIAL SUMMARY JUDGMENT

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February 5, 2021

THE STATE OF TEXAS'S SUPPLEMENTAL APPENDIX OF EVIDENCE IN SUPPORT OF THE STATE OF TEXAS'S MOTION FOR PARTIAL SUMMARY JUDGMENT

Index No.	Description	Bates Beginning	Bates Ending
1	Excerpts of Deposition of Estevan Lopez, February 26, 2020	TX_MSJ_007567	TX_MSJ_007586
2	Excerpts of Deposition of Shane Coors, June 22, 2020	TX_MSJ_007587	TX_MSJ_007602
3	Excerpts of Deposition of Peggy Barroll, July 9, 2020	TX_MSJ_007603	TX_MSJ_007629
4	Excerpts of Deposition of Peggy Barroll, Volume 2, August 7, 2020	TX_MSJ_007630	TX_MSJ_007648
5	Excerpts of Rule 30(b)(6) Deposition of Peggy Barroll, October 21, 2020	TX_MSJ_007649	TX_MSJ_007676
6	Excerpts of Deposition of John D'Antonio, August 14, 2020	TX_MSJ_007677	TX_MSJ_007698
7	Excerpts of Rule 30(b)(6) Deposition of Cheryl Thacker, September 18, 2020	TX_MSJ_007699	TX_MSJ_007718
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10	Excerpts of Deposition of John D'Antonio, Volume 2, June 25, 2020	TX_MSJ_007760	TX_MSJ_007798
11	Excerpts of Deposition of Jennifer Stevens, July 27, 2020	TX_MSJ_007799	TX_MSJ_007830

Dated: February 5, 2021 Respectfully submitted,

s/ Stuart L. Somach

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1 2	IN THE SUPREME COURT OF THE UNITED STATES BEFORE THE OFFICE OF THE SPECIAL MASTER HON. MICHAEL J. MELLOY
3	
4	STATE OF TEXAS)
)
5	Plaintiff,)
) Original Action Case
6	VS.) No. 220141
) (Original 141)
7	STATE OF NEW MEXICO,)
	and STATE OF COLORADO,)
8)
	Defendants.)
9	
10	
11	************
12	ORAL AND VIDEOTAPED DEPOSITION OF
13	ESTEVAN LOPEZ
14	FEBRUARY 26, 2020
15	*************
16	
	ORAL AND VIDEOTAPED DEPOSITION of ESTEVAN LOPEZ,
17	produced as a witness at the instance of the
	Plaintiff, and duly sworn, was taken in the
18	above-styled and numbered cause on February 26, 2020,
	from 9:08 a.m. to 4:02 p.m., before Heather L. Garza,
19	CSR, RPR, in and for the State of Texas, recorded by
	machine shorthand, at the DRURY PLAZA HOTEL - SANTA
20	FE, 820 Paseo De Peralta, Santa Fe, New Mexico,
	pursuant to the Federal Rules of Civil Procedure and
21	the provisions stated on the record or attached
	hereto; that the deposition shall be read and signed.
22	
23	
24	
25	
-	
	Page 1

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	Page 3	

1	VIDEOGRAPHER:
2	Mr. Gary Goldblum
3	
	ALSO PRESENT:
4	
	Ms. Peggy Barroll
5	Mr. Jeff Wechsler
	Mr. Erek Fuchs
6	Mr. Gary Esslinger
	Ms. Michelle Estrada-Lopez
7	Mr. Ian Ferguson
	Mr. Al Blair
8	Mr. James Brockmann
9	
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1	THE VIDEOGRAPHER: Good morning. We are
2	going on the record. The time is 9:08 a.m. Today's
3	date is February 26th, 2020. Please note that the
4	microphones are very sensitive and may pick up
5	whispering, private conversations, and cellular
6	interference. Please turn off all cellphones or place
7	them away from the microphones as they can easily
8	interfere with the deposition's audio. Audio and
9	video recording will continue to take place unless all
LO	parties agree to go off the record. This begins DVD
L1	No. 1 in the video deposition of Estevan Lopez taken
L2	by the plaintiff in the matter of Texas versus New
L3	Mexico filed in the Supreme Court of the United
L4	States, Case No. 141. This deposition is being held
L5	at the Drury Plaza Hotel located at 828 Paseo De
L6	Peralta, Santa Fe, New Mexico. My name is Gary
L7	Goldblum, certified legal video specialist from The
L 8	Video Department. The court reporter is Heather Garza
L 9	from Veritext. I am not related to any party in this
20	action nor am I financially interested in the outcome.
21	Counsel and all present in the room and everyone
22	attending remotely will now state their appearances
23	and affiliations for the record.
24	MS. KLAHN: Sarah Klahn on behalf of the
25	State of Texas.

1	MR. ROMAN: David Roman on behalf of the
2	State of New Mexico.
3	MR. WECHSLER: Jeff Wechsler for the New
4	Mexico State Engineer.
5	MS. DALRYMPLE: Shelly Dalrymple for the
6	Interstate Stream Commission.
7	MS. BARNCASTLE: Samantha Barncastle for
8	the Elephant Butte Irrigation District.
9	MR. FUCHS: Erek Fuchs for Elephant
10	Butte Irrigation District.
11	MR. WALLACE: Chad Wallace for the State
12	of Colorado.
13	MS. O'BRIEN: Maria O'Brien for El Paso
14	County Water Improvement District No. 1.
15	MR. GEHLERT: David Gehlert for the
16	United States.
17	MS. KLAHN: And on the phone?
18	MR. GOLDSBERRY: Francis Goldsberry for
19	the State of Texas.
20	MR. RICH: Chris Rich, Solicitor's
21	Office, Department of the Interior.
22	
23	
24	
25	
	Page 7

1	ESTEVAN LOPEZ,
2	having been first duly sworn, testified as follows:
3	EXAMINATION
4	BY MS. KLAHN:
5	Q. Good morning, Mr. Lopez.
6	A. Good morning.
7	Q. We're back for day two of your deposition,
8	this time on your expert report. I can go over the
9	deposition guidelines if you're feeling like you can't
10	really remember how to handle a deposition.
11	A. I think I'm fine.
12	Q. You think you're fine. Okay. Very good.
13	Why don't you state your name for the record.
14	A. My name is Estevan Lopez.
15	Q. And your work address?
16	A. P.O. Box 302, Penasco, New Mexico.
17	MS. KLAHN: Mark this.
18	(Exhibit No. 1 was marked.)
19	MS. KLAHN: For everybody in the room, I
20	only brought eight copies, so you are going to have to
21	figure it out.
22	MR. ROMAN: Sarah, are we continuing the
23	numbers from the last time or are we starting new?
24	MS. KLAHN: Starting over.
25	MR. ROMAN: Okay.

1	then project water in your view?
2	A. No.
3	Q. Why not?
4	A. I think the I think project water is, as
5	I've defined in in my in my report, project
6	water is releases of usable water from Elephant Butte
7	and Caballo, return flows and inflows between
8	inflows below Caballo Reservoir.
9	Q. But if inflows below Caballo Reservoir are
10	being pumped by New Mexico wells, how is that not
11	pumping project water?
12	A. Could you please repeat that, please?
13	Q. If inflows and return flows below Caballo
14	Reservoir let's stick with return flows. If return
15	flows below Caballo Reservoir, based on use of surface
16	water from the project, are being pumped by New Mexico
17	wells, how is that not pumping project water?
18	MR. ROMAN: Object to form.
19	A. I apologize. I'm still not following you.
20	Are you suggesting that we're we're pumping the
21	return flows from wells? Is that what you're saying?
22	Q. (BY MS. KLAHN) Right.
23	A. I don't think that happens generally. I
24	mean, arguably, you can argue that return flows aren't
25	showing up as a result of some of the groundwater
	Page 36

1	pumping. That, I would agree with. I don't think
2	that generally we pump the return flows out of wells.
3	Q. So if the return flows aren't showing up
4	because of groundwater pumping, why isn't that pumping
5	project water effectively?
6	A. Well, certainly groundwater pumping can have
7	an impact on project supply. I'm not saying that
8	it that that's not the case. If that's what you're
9	asking, yeah, I can agree with you on that.
10	Q. But it remains your position that it's not
11	<pre>project water?</pre>
12	A. I it remains my position that groundwater
13	is not project water. That's correct.
14	Q. Could you describe for me what your Paragraph
15	4.7 on Page 6 is getting at?
16	A. How much detail do you want?
17	Q. Well, I guess as much as you need without you
18	reading from your report.
19	A. Do you not want me to read from my report?
20	Q. You may read your report, but you don't need
21	to read it into the record. I'm asking you to
22	summarize.
23	A. Okay. In 2011, 2011 was a very dry year, and
24	there was very little inflow into into project
25	storage. In part, or, I guess, completely as a result
	Page 37

1	of the 2008 operating agreement, there there were
2	now carryover accounts for each of the districts, and
3	the 2008 operating agreement and the diversion ratio
4	mechanism that it uses to establish the D3 allocation,
5	those things set up a situation in which I think
6	that the allocation committee the allocation
7	committee allocated water before they, I think, fully
8	understood what the diversion ratio was going to be in
9	that year, and as a result, I think they they
- 0	allocated essentially more water than was available.
1	Once the once it became apparent just how poor the
_2	diversion ratio was, how poor the system efficiency
_3	was because of the low inflows and low low water
_4	supply, it turned out that there wasn't enough water
L5	in the carryover accounts. There were accounts there,
L6	but there weren't there wasn't water to back them
_7	up. So much of the water that has been previously
8_	allocated now went to simply filling those carryover
_9	accounts. And those carryover accounts were quite
20	lopsided. El Paso El Paso No. 1 had a fairly large
21	carryover account. EBID had a very small carryover
22	account. As a result of all of these things, Texas
23	became quite interested in in and at the same
24	time, New Mexico had a a substantial accrued credit
25	that we had built up over a number of years. So Texas

became quite interested in a relinquishment of some of
those accrued credits to supplement the available
supply to the districts, and we were working with them
on on on those issues. When I say "we" here,
I'm I was working with with ISC at that time so
I'm talking about New Mexico and our water
administration team, including the state engineer. We
realized that if we did the relinquishment, as Texas
was requesting, most, if not all, of this water was
essentially going to go in to simply filling EP No. 1
carryover accounts and little, if any, of this water
was going to end up being made available to EBID. As
you know, EBID EBID farmers are New Mexico
residents, and state engineer in particular was was
wanting to assure that they that if we made some of
our water available, that they would get a portion of
it. And he he was negotiating from that
perspective. That wasn't acceptable to the Texas
commissioner, so we we talked through various other
options but were unable to to get to an agreement,
and at some point, the water that had been allocated
previously was running out and and New Mexico we
became aware that Reclamation and the district
districts were talking about releasing water that in
our estimation was releasing our credit water. We

SIGNATURE OF WITNESS I, ESTEVAN LOPEZ, solemnly swear or affirm under the pains and penalties of perjury that the foregoing pages contain a true and correct transcript of the testimony given by me at the time and place stated with the corrections, if any, and the reasons therefor noted on the foregoing correction page(s). ESTEVAN LOPEZ Job No. 3852996 Page 165

1	IN THE SUPREME COURT OF THE UNITED STATES
2	BEFORE THE OFFICE OF THE SPECIAL MASTER
	HON. MICHAEL J. MELLOY
3	
4	STATE OF TEXAS)
)
5	Plaintiff,)
) Original Action Case
6	VS.) No. 220141
) (Original 141)
7	STATE OF NEW MEXICO,)
	and STATE OF COLORADO,)
8)
	Defendants.)
9	
10	
	THE STATE OF TEXAS :
11	COUNTY OF HARRIS :
12	I, HEATHER L. GARZA, a Certified Shorthand
13	Reporter in and for the State of Texas, do hereby
14	certify that the facts as stated by me in the caption
15	hereto are true; that the above and foregoing answers
16	of the witness, ESTEVAN LOPEZ, to the interrogatories
17	as indicated were made before me by the said witness
18	after being first duly sworn to testify the truth, and
19	same were reduced to typewriting under my direction;
20	that the above and foregoing deposition as set forth
21	in typewriting is a full, true, and correct transcript
22	of the proceedings had at the time of taking of said
23	deposition.
24	I further certify that I am not, in any
25	capacity, a regular employee of the party in whose
	Page 166
	raye 100

1	behalf this deposition is taken, nor in the regular
2	employ of this attorney; and I certify that I am not
3	interested in the cause, nor of kin or counsel to
4	either of the parties.
5	
6	That the amount of time used by each party at
7	the deposition is as follows:
8	MS. KLAHN - 04:42:44
	MR. ROMAN - 00:00:00
9	MR. GEHLERT - 00:00:00
	MR. WALLACE - 00:00:00
10	MS. O'BRIEN - 00:00:00
	MS. BARNCASTLE - 00:00:00
11	
12	GIVEN UNDER MY HAND AND SEAL OF OFFICE, on
	this, the 27th day of March, 2020.
13	\ 1 \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \
14	Heather Sox
15	HEATHER L. GARZA, CSR, RPR, CRR
	Certification No.: 8262
16	Expiration Date: 04-30-22
	VERITEXT LEGAL SOLUTIONS
17	Firm Registration No. 571
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18	Fort Worth, TX 76102
10	1-800-336-4000
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	Page 167

1	droman@roblesrael.com
2	March 27, 2020
3	RE: Texas v. New Mexico
4	DEPOSITION OF: Estevan Lopez (# 3852996)
5	The above-referenced witness transcript is
6	available for read and sign.
7	Within the applicable timeframe, the witness
8	should read the testimony to verify its accuracy. If
9	there are any changes, the witness should note those
10	on the attached Errata Sheet.
11	The witness should sign and notarize the
12	attached Errata pages and return to Veritext at
13	errata-tx@veritext.com.
14	According to applicable rules or agreements, if
15	the witness fails to do so within the time allotted,
16	a certified copy of the transcript may be used as if
17	signed.
18	Yours,
19	Veritext Legal Solutions
20	
21	
22	
23	
24	
25	
	Page 168

IN THE SUPREME COURT OF THE UNITED STATES
BEFORE THE OFFICE OF THE SPECIAL MASTER
HON. MICHAEL J. MELLOY

STATE OF TEXAS)	
)	
Plaintiff,)	
)	Original Action Case
VS.)	No. 220141
)	(Original 141)
STATE OF NEW MEXICO,)	
and STATE OF COLORADO,)	
)	
Defendants.)	

REMOTE ORAL AND VIDEOTAPED DEPOSITION OF SHANE COORS

JUNE 22, 2020

REMOTE ORAL AND VIDEOTAPED DEPOSITION of SHANE COORS, produced as a witness at the instance of the Defendant State of New Mexico, and duly sworn, was taken in the above-styled and numbered cause on June 22, 2020, from 9:01 a.m. to 5:07 p.m., before Heather L. Garza, CSR, RPR, in and for the State of Texas, recorded by machine shorthand, at the offices of HEATHER L. GARZA, CSR, RPR, The Woodlands, Texas, pursuant to the Federal Rules of Civil Procedure and the provisions stated on the record or attached hereto; that the deposition shall be read and signed.

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         Ms. Kayla Brown
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     ALSO PRESENT:
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          Al Blair
20
          Steve Setzer
          Ian Ferguson
21
          John Carron
          Jean Moran
22
          Greg Sullivan
23
24
25
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1 THE VIDEOGRAPHER: The time is 9:01 a.m. 2 We're on the record. 3 SHANE COORS, 4 having been first duly sworn, testified as follows: 5 EXAMINATION 6 BY MR. KOPP: 7 Good morning, Mr. Coors. How are you today? 8 Α. Thanks. Good morning. 9 Just as a reminder, my name is Michael Kopp, Q. 10 and I'm an attorney representing the State of New 11 Mexico in the case Texas v. New Mexico, and I'll be 12 taking your deposition today. 1.3 MR. KOPP: We'll go ahead and enter our 14 appearances on the record. As I said, I'm Michael 15 Kopp for New Mexico. I also see on the call Jeff 16 Wechsler, John Draper, and Lisa Thompson for New 17 Mexico, as well as Steve Setzer, John Carron, and Greg 18 Sullivan. Did I miss anyone else who is on the call 19 for New Mexico? 20 (No response.) 21 MR. KOPP: Okay. And for Texas? 22 MS. BARFIELD: Good morning. This is 2.3 Theresa Barfield on behalf of the State of Texas. 24 Also with me this morning, I have Stuart Somach, 25 Francis Goldsberry, and Robert Hoffman.

1 2

Q. So I think last week, you made this disclosure of modeling files and then New Mexico came back and asked for some additional files. I think that they were not named in the way that the New Mexico experts were expecting, so I just wanted to ask and -- and confirm some things about that. So they asked -- they wanted to know if the base dot MAM file is your name file?

A. Well, I -- I know the question that you're asking, because when we got that question, it struck me as -- I would not have expected that question to come because we thought that those files would be the same as what was done in Run 1. So that is something that I don't have an answer to that, why that name was different, because when I went into that folder, you know, that's what -- that's what we have.

Q. Okay.

- A. What I disclosed is what we have. And so, you know, maybe that means we need to dig more into that to get a satisfactory answer to that question, but that's what we had in that folder as far as the name file, so that's what we used.
- Q. Okay. I'm not sure that you didn't disclose what was needed. I think one issue was that some of the files, they expected to be named base and then

1 have different extensions, like dot RIP. 2 Α. Right. Right. 3 When you sent them, they -- they were instead 0. 4 named historic dot RIP, for example. 5 Α. Right. 6 Q. So the question was, you know, if -- were 7 those -- I mean, if they renamed those files to 8 base -- like, base dot RIP, is that correct, do they 9 make a correct assumption in doing that? 10 Α. Yeah. And that -- I mean, that's a fair 11 question that I probably can't give you the right 12 answer for that here and now, but certainly owe that 13 to you. 14 Okay. Well, we can work that out after the Ο. 15 deposition. 16 Α. Okay. 17 Ο. So looking back at your report here, and I'm 18 looking specifically here at Figures 19 and 20, which 19 are on Page 38. I think this is where you're showing 20 the impacts of your Run A at the -- the first one, 21 Figure 19 is the Caballo outflow -- excuse me -- and 22 Figure 20 is the -- the annual Rio Grande at El Paso

A. Right.

flow, correct?

2.3

24

25

Q. And I think your general conclusion,

1 obviously, is that the impacts of -- of both of these 2 locations are -- are relatively small, particularly on 3 an average annual basis, correct? 4 Α. Right. Although, I will point out that in some 5 6 years, for example, 2004, it appears that there are 7 some larger deviations. Do you recall what the 8 maximum negative departure you observed at either of 9 these locations was? 10 I don't recall, but the spreadsheet I 11 disclosed should have that pretty readily available, 12 yeah. 13 And did you look at the modeled Sure. 14 impacts at any other points besides the Caballo 15 outflow and the Rio Grande at El Paso? 16 Α. No. 17 Okav. Is there a particular reason why not? 18 Well, like I think I said at the beginning, Α. 19 these are the points, especially the Rio Grande at El 20 Paso, I felt best about from a modeling standpoint, 21 and relying on the other Texas experts, the impacts at 22 El Paso are -- are the important impacts, so that's 2.3 what I characterized. 24 So the top of Page 39, before your

references, I think it's actually the last sentence

25

- 1 here in your report before the references, you say, 2 "The pumping in the Hueco Bolson resulted in 3 differences in the annual releases from Caballo and 4 the flows at El Paso of 1.7 percent and 2.2 percent 5 respectively on an absolute basis, and the changes 6 were essentially unbiassed, meaning that they were 7 equally often increased as decreased." So I think 8 what you're saying there is that even though there 9 were negative departures in some years, there were 10 positive departures in other years? 11 A . Right. 12 13 mean, by unbiassed, do you truly mean they were
 - And that these changes were essentially -- I basically random?
 - Well, just means that I -- I didn't put the numbering here, but when you do basically the mean average that it's close to zero.
 - Q. Okay.

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- 19 That -- that the sum of the positives and the 20 negatives very nearly cancelled out to zero.
 - Q. Okay.
 - Α. So that -- that's what I mean by that.
 - 0. The difference is 1.7 percent and 2.2 percent, you say that's on an absolute basis so that's both the positive and the negative departures?

1	A. That's the absolute deviation, so that's
2	forget positive and negative. Everything is positive.
3	What's the average deviation in any direction is this
4	that's the 1.7 or 2.2. The mean deviation is much,
5	much less.
6	Q. Okay. All right. I think I have no further
7	questions for you, Mr. Coors, at this time.
8	A. Okay.
9	MR. KOPP: Does anyone else have any
10	questions? Is anyone else still listening?
11	MR. WALLACE: None for Colorado.
12	MS. BARFIELD: Okay. I think we're
13	done.
14	MR. KOPP: All right. Thank you very
15	much for your time today, Mr. Coors. I appreciate it.
16	THE WITNESS: Thank you, too.
17	Appreciate it.
18	THE VIDEOGRAPHER: The time is 5:07 p.m.
19	We're off the record.
20	(The deposition concluded at 5:07 p.m.)
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for the change. Please sign each page of changes.			
PAGE/LIN 60/7	IE CORRECTION change "wasn't" to "was"	REASON FOR CHANGE	
74/22	add a "why" between "than" a		
111/22	change "ARC" to "art"	incorrectly transcribed	
120/7	change "1.4" to ".14"	incorrectly transcribed	
150/18	remove the "the" between "me		
151/1	change "tiny" to "tidy"	incorrectly transcribed	
151/9	change "stall" to "fall"	incorrectly transcribed	
171/3	change "flex" to "complex"	incorrectly transcribed	
175/10	change "weather" to "seepage	" incorrectly transcribed	
178/25	add an "if" after "happened"	incorrectly transcribed	
190/12	change "slot" to "slop"	incorrectly transcribed	
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	pron	Carl	
	SHANE COORS		

1 SIGNATURE OF WITNESS 2 I, SHANE COORS, solemnly swear or affirm under the 3 pains and penalties of perjury that the foregoing 4 5 pages contain a true and correct transcript of the testimony given by me at the time and place stated 6 7 with the corrections, if any, and the reasons therefor noted on the foregoing correction page(s). 8 9 10 1.1. SHANE COORS 12 State of Colorado County of Larimer 13 The foregoing instrument was acknowledged before 14 me on this 6 day of August by Shane Coors who is personally known to me or has produced 15 Colorado Dr.vers License as Identification 16 Job No. 63555 Notary's Signature 17 18 **ALEXA MALARA** 19 **NOTARY PUBLIC** STATE OF COLORADO 20 NOTARY ID 20194023300 MY COMMISSION EXPIRES 06/19/2023 21 22 23 24 25

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              IN THE SUPREME COURT OF THE UNITED STATES
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               BEFORE THE OFFICE OF THE SPECIAL MASTER
                        HON. MICHAEL J. MELLOY
 3
 4
      STATE OF TEXAS
 5
              Plaintiff,
                                       Original Action Case
 6
      VS.
                                       No. 220141
                                       (Original 141)
 7
      STATE OF NEW MEXICO,
      and STATE OF COLORADO,
 8
              Defendants.
 9
10
     THE STATE OF TEXAS :
11
     COUNTY
             OF
                 HARRTS:
12
         I, HEATHER L. GARZA, a Certified Shorthand
13
     Reporter in and for the State of Texas, do hereby
14
     certify that the facts as stated by me in the caption
15
     hereto are true; that the above and foregoing answers
16
     of the witness, SHANE COORS, to the interrogatories as
     indicated were made before me by the said witness
17
18
     after being first remotely duly sworn to testify the
19
     truth, and same were reduced to typewriting under my
20
     direction; that the above and foregoing deposition as
21
     set forth in typewriting is a full, true, and correct
22
     transcript of the proceedings had at the time of
23
     taking of said deposition.
2.4
              I further certify that I am not, in any
25
     capacity, a regular employee of the party in whose
```

1 behalf this deposition is taken, nor in the regular 2 employ of this attorney; and I certify that I am not 3 interested in the cause, nor of kin or counsel to 4 either of the parties. 5 6 That the amount of time used by each party at 7 the deposition is as follows: MR. KOPP - 06:10:54 8 MS. BARFIELD - 00:00:00 9 MR. DUBOIS - 00:00:00 MR. WALLACE - 00:00:00 10 MS. O'BRIEN - 00:00:00 11 GIVEN UNDER MY HAND AND SEAL OF OFFICE, 12 this, the 19th day of July, 2020. 13 14 HEATHER L. GARZA, CSR, RPR, CRR 15 Certification No.: 8262 Expiration Date: 04-30-22 16 17 Worldwide Court Reporters, Inc. Firm Registration No. 223 18 3000 Weslayan, Suite 235 Houston, TX 77027 19 800-745-1101 20 21 22 23 24 25

IN	THE	SUPRE	EME	COU	RT	OF	TH	ΕU	INITEI)	STATE	IS
BE	FORE	THE	OFI	FICE	OF	TH	ΙE	SPE	CIAL	M	ASTEF	}
		HOI	N. 1	4ICH	AEL	J.	M	ELI	JOY			

STATE OF TEXAS)	
)	
Plaintiff,)	
)	Original Action Case
VS.)	No. 220141
)	(Original 141)
STATE OF NEW MEXICO,)	
and STATE OF COLORADO,)	
)	
Defendants.)	

REMOTE ORAL AND VIDEOTAPED DEPOSITION OF PEGGY BARROLL

JULY 9, 2020

REMOTE ORAL AND VIDEOTAPED DEPOSITION of PEGGY BARROLL, produced as a witness at the instance of the Plaintiff State of Texas, and duly sworn, was taken in the above-styled and numbered cause on July 9, 2020, from 10:01 a.m. to 4:03 p.m., before Heather L. Garza, CSR, RPR, in and for the State of Texas, recorded by machine shorthand, at the offices of HEATHER L. GARZA, CSR, RPR, The Woodlands, Texas, pursuant to the Federal Rules of Civil Procedure and the provisions stated on the record or attached hereto; that the deposition shall be read and signed.

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         Ms. Kayla Brown
 7
 8
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          Al Blair
          Phil King
10
          Gary Esslinger
          Ian Ferguson
11
          Michelle Estrada-Lopez
          Rolf Schmidt-Petersen
12
          Lela Hunt
          Shelly Dalrymple
13
          Susan Barela
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1 THE VIDEOGRAPHER: The time is 10:01

2 a.m. We're on the record.

PEGGY BARROLL,

having been first duly sworn, testified as follows:

EXAMINATION

BY MR. SOMACH:

- Q. So I guess we have demonstrated the first issue or problem with remote depositions, and that's because we can't see each other quite as well as we can when we're in the same room, we tend to talk over one another so, let's -- Dr. Barroll, I'll try to wait after I answer -- or after I ask a question, if you'll wait before you respond, and we'll see if we can do this so that we don't talk at the same time. Is that -- is that okay with you?
- A. I'll try my best.
 - Q. Okay. You -- I know you've had your deposition taken before because I sat in on at least two days of those. These remote depositions are very similar to the one that we took when we were in Santa Fe. The exception, of course, is the fact that we're not in the same room and so that we know to accommodate that fact, so I want to make sure that you don't have any other devices open where you're communicating with -- with anybody else. Have you

what we've talked about previously and that is all the 1 2 other factors, whatever is happening in Texas with 3 groundwater pumping and accounting -- and so forth. 4 Is that what you're talking about there? 5 Α. Yes. 6 0. And, again, part of -- well, let me just 7 leave it there. Take a look at Page 44, 6.3.3, to the 8 end, that whole section. 9 Α. Yes. 10 Ο. So that -- that's not an expert opinion, is 11 it? 12 Object to form. MR. WECHSLER: 13 It might be getting into factual matters that Α. 14 are not entirely expert. I'm not sure. 15 (BY MR. SOMACH) Let me ask --0. 16 Α. I'm not quite sure where the -- where the 17 line gets in some areas. My knowledge of what EBID's 18 view of the operating agreement was based on my 19 conversations with them and materials available to me. 20 Would -- would EBID be a better source of 21 what EBID's views of the operating agreement are in 22 your opinion?

23

24

25

Q. Take a look at Roman numeral 11, the page Roman numeral 11. Page -- Page -- Conclusion 16.

A. Yeah.

Q. Tell me what -- what you intend to convey in that conclusion.

- A. That the effect of the operating agreement, when you combine the reduction in -- in recharge to the aquifer and the increase in groundwater pumping associated with the change in EBID's allocation, combine those two impacts to the aquifer, they add up to more than a hundred thousand acre-feet per year in full supply years, and that's a hundred thousand acre-feet to the bad as far as the aquifer is concerned of less recharge and more discharge, and as a result, groundwater levels have been declining, and they decline naturally in years of low supply. That's always been the case. But since the change in allocation in 2006, we have not seen recovery in the intervening full supply years.
- Q. If you're attempting to remediate that situation, and I -- I assume that you're -- the implication is if EBID got more surface water, it would remediate the situation; is that what you're saying?
- A. I'd say the reduction in EBID's allocation has caused this problem. A re -- getting some water -- getting EBID some water back would certainly

help remediate it.

- Q. What about turning off wells, just not pumping groundwater wells, would that help remediate the situation?
- A. Reduction in groundwater pumping -- in order to have a reduction in groundwater pumping, that would require a reduction in groundwater demand, either people moving out of the basin or a reduction of irrigated acreage in the basin.
 - Q. Correct.
- A. Either of those would have some remedy -- remedial effects on this problem.
- Q. You're saying they would have a remedial effect?
 - A. They would.
- Q. On Page 17, you've got a description of the hydrologic cycle, and if you -- you look forward to the second page, 18, you focus on the -- the El Paso Valley and drains and so forth. Do you see that?
- A. Yeah.
 - Q. How does pumping -- and when you talk about pumping in El Paso Valley, you're talking about the Hueco Bolson; is that correct?
- A. Yeah. The El Paso Valley is sort of a subset of the Hueco Bolson.

1 Okay. So take me through the analysis. How 2 does groundwater pumping in -- in the Hueco affect 3 surface water in -- in the project? 4 There are two effects. One is it depletes 5 the drain flows above Fabens, and those drain flows 6 were historically part of project supply -- before 7 rectification, all drain flows of Fabens were part of 8 project supply. Following rectification, the water 9 from the river drain system, middle drain, were used 10 as project supply. Groundwater pumping depletes the 11 drains and reduces the amount of project supply 12 generated within the El Paso Valley. The other effect 13 is increase in seepage from EP No. 1 canals and the 14 main stem of the Rio Grande. Losses from the Rio 15 Grande are before the Riverside canal extension --16 sorry, before the American canal extension allowed EP 17 No. 1 to bypass that reach, presumably be losses to 18 the -- to the project water in the main stem of the 19 Rio Grande above Riverside canal. Those losses were 20 increasing at the time as groundwater pumping impacted 21 the groundwater levels in that area, reducing the 22 amount of project supply. 23 Q. Did you -- have you done an analysis of the 24 historic groundwater levels within the Hueco Bolson?

I've not done an analysis.

25

A.

1 So -- so do you know -- I think either you 2 said this or Mr. Lopez said this, but the Hueco Bolson 3 is -- is unconnected with the river; is that correct? 4 Yeah, groundwater levels in the El Paso area 5 have dropped so low that they essentially disconnected 6 the river, which means that -- again, I'm not an 7 expert in the Hueco, but theoretically, what that 8 means is that maxed out the loss rate, that the loss 9 rate from that -- from the bed of the Rio Grande in a 10 reach would increase with time as the groundwater 11 levels dropped until they dropped below a certain 12 threshold and then the -- the loss rate would stay 13 constant at that large rate. 14 Do you know when that disconnection took 15 place? Did -- did it take place -- it was connected 16 up until the operating agreement and then it 17 disconnected; is that -- is that correct? 18 No. I assume it happened well before that, A . 19 but that big cone of depression in the El Paso Valley 20 didn't happen recently. 21 Give me a -- in terms of relative time, did 22 it -- did it exist in 1938? 23 Α. I don't think so. 24 You think it was connected in 1938? 0. 25 Well, the City of El Paso was only pumping Α.

about 10,000 acre-feet a year back then. I don't think there was a big -- again, you'd have to talk to our Hueco experts, Chuck Spalding or Dan Morrissey, for more detail on that.

- Q. Okay. And so you're not purporting to be an expert on the Hueco Bolson; is that correct?
- A. No. I know enough from my readings and studies and -- and reading the expert reports of Dan Morrissey and Chuck Spalding, I know enough to support what I'm saying, but I'm not an expert on the Hueco itself.
- Q. And if I wanted to know the effect that groundwater pumping in the Hueco has on surface water supplies, I assume I have to ask Spalding or Morrissey; is that correct?
 - A. If you want to get detailed about it, yes.
- Q. All you're providing is some general knowledge based upon your anecdotal review of materials; is that correct?
- A. I think I also provide one of their -- a figure from their report, but that's in my rebuttal exhibit.
 - Q. It is from their report; is that correct?
- A. Yes. It is. There's also -- I don't want to -- this is a subject that's been discussed in the

literature, scientific literature, so there are other studies that I've read, modeling studies of the Hueco Bolson, discussions of the salvage for the American canal extension, including one done by Dr. Blair in which this subject is discussed and sometimes quantified.

Q. If I could have you take a look again at -or look at Page 23. You have a discussion at the top
starting at the top of Page 23, and then you have the
chart, hydrologic cycle, and what I -- I'm curious
about is does that chart describe accurately -- I know
it's in schematic form, but is the story you're
telling there a story about what happened in the
Rincon and Mesilla valleys?

THE REPORTER: I'm sorry. In the what?

MR. SOMACH: The Rincon and Mesilla
valleys.

A. This is a figure I am borrowing from

Dr. King. It's actually a little animation when you

do it in PowerPoint that describes the hydrologic

cycle of the project irrigation system. It's not

detailed, and it doesn't include all of the phenomenon

that occurred. So it's -- I'd say it's incomplete,

but it -- it's a nice illustration of how water is

distributed and where it goes.

1	was what when I reviewed your your deposition
2	testimony then, you stated that all of your
3	professional work has derived from the State of Texas.
4	I think you indicated that was 30 years of
5	professional work. Do I understand that correctly?
6	A. Derived from the State of Texas?
7	Q. I'm sorry. That's the fact that I'm old and
8	I'm tired. State of New Mexico.
9	A. Almost all. I spent a couple years doing
10	some consulting for state engineer's office.
11	Q. And since you left the state engineer's
12	office, you're doing consulting now; is that correct?
13	A. That's right.
14	Q. And as I understand from your last
15	deposition, most of that is with the State of New
16	Mexico; is that correct?
17	A. Yeah. It's all with the State of New Mexico.
18	Q. Okay. So that all the opinions you're
19	expressing in your expert report, did you develop
20	those while you were working for the State of New
21	Mexico?
22	A. Many of them, I did.
23	Q. And the ones that you didn't develop while
24	working for the State of New Mexico, who were you
25	working for?

- A. I guess you're including since I've been retired and I was a consultant. Yes, yes, they've all been developed while I was working for the State of New Mexico one way or another, yes.
- Q. You were talking about, in your first deposition, about the fact that salts accumulated the further down you go in the Rio Grande basin, the lower Rio Grande basin; is that correct?
 - A. Yes.

- Q. Okay. Today, you also said as well as in your prior deposition that the lower Rio Grande aquifer system is a mined aquifer. Did you say that?
 - A. Yes.
 - Q. Okay. Describe a mined aquifer for me.
- A. A mined aquifer is one that on a monthly year basis, withdrawals are greater than recharge and so groundwater levels are dropping through time.
- Q. And then a mined groundwater basin, is there a limit to how far those groundwater basins can drop?
- A. Yeah. And it depends on the aquifer. I mean, there are some aquifers -- very thin aquifers where people are worried about using up all the water in the aquifer. Those exist.
- Q. So are you using the -- you know, the way I had it described before is obviously there's what you

just described. That's a -- that's a physical limit.

There just is no more water left. Does your

definition of mined aquifer, including -- include an
economic factor?

- A. Well, the definition of mining does not, but, yeah, the -- what -- what stops groundwater use in such a basin may be economic as opposed to physical limit or it might be water quality issues.
- Q. Who is it that decides to allow or not to allow a groundwater basin in New Mexico to be mined?
- A. The state has regulatory authority, and in some basins, the state engineer promulgates rules and regulations to control the mining of an aquifer, and I don't know that the state engineers ever tried to make a decision about whether a basin should be mined or not. It's the water right owners who have the rights to use the water. The state engineer has some regulatory authority, but the state engineer is not the water god making decisions of -- decisions that aren't necessary or aren't, you know, part of his powers.
- Q. So if the -- the water right holders -- the groundwater right holders in the lower Rio Grande and New Mexico decided that they were going to -- to mine the groundwater basin, absent some affirmative action

by the state engineer, they could do that?

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- 2 State -- water right owners can use the water 3 that they have a right to. There's also opportunity 4 for water right owners to take action against each 5 other if they're interfering with their -- each other's water rights. The -- what you're talking 6 7 about seems more like a -- a public policy, and as 8 time goes on, it seems like the state starts 9 regulating resources more with an eye for public 10 policy. It started with the Roswell Basin where the 11 water right owners decided they were using up --12 endangering their water resource, and the state 13 engineer declared the basin and the management started 14 taking place to prevent damage to the resource. 15 happens in other parts of the state, often through 16 settlement agreements involving the adjudication 17 court. Managing to protect the resource is a 18 difficult matter involving lots of stakeholders. The 19 State doesn't have unitary authority.
 - Q. Do you know of any actions that the Office of State Engineer or, quite frankly, anyone else in the State of New Mexico has taken to manage the mining of the groundwater basin in the lower Rio Grande and New Mexico?
 - A. Well, the management steps New Mexico has

1 taken in the way of declaring a groundwater basin and 2 then declaring a water master district and then 3 metering groundwater pumping, adjudicating irrigation 4 water rights, those are all steps in water management. 5 I'd say that in addition, the state is undertaking a 6 pilot program involving reducing depletions in the 7 lower Rio Grande, which would be aimed at addressing 8 the mining issue. 9 So those are the steps that -- excuse me --Q. 10 the State of New Mexico has taken to address 11 groundwater mining in the lower Rio Grande and New 12 Mexico, the ones you articulated? 13 A. Those -- those are the ones I can come up 14 with at the moment and the --15 Do you know -- go ahead. I keep interrupting 0. 16 you. 17 Α. No, it's -- that's what I've got so far on 18 that -- on that question. 19 Q. Okay. Do you know how many groundwater wells 20 have been curtailed in terms of pumping by the State 21 of New Mexico in the Lower Rio Grande? 22 The water master and the administrative legal Α. 23 unit of the state engineer's office take action 24 against people who are diverting water without permit

or in contradiction to their permit or illegally, and

Page 113

I don't know the details of all of those cases so I can't.

- Q. Well, let's exclude illegal diversions or diversions in excess of permit quantities. Do you know whether or not, aside from those actions, the state engineer's office has taken any action to curtail the groundwater pumping to address the mining situation we've described in the lower Rio Grande in New Mexico?
- 10 A. The pilot program I described is an effort to 11 curtail some groundwater use in the interests of 12 attacking the mining problem; otherwise, there has not 13 been curtailment. Curtailment outside -- curtailment 14 of lawful legitimate use of a permitted groundwater 15 right is not something the state engineer has the 16 power to do outside of priority -- some sort of 17 priority call.
 - Q. In your opinion, is the mining of the groundwater basin caused by illegal diversions or diversions in excess of permit amounts? Is that what's causing that?
 - A. No.

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- Q. It's -- it's the legal pumping of groundwater that's causing the problem; is that correct?
 - A. Legal groundwater pumping combined with a

	P
1	reduction in New Mexico's share of the Rio Grande
2	project supply.
3	Q. Well, the reduction in Rio Grande project
4	supply, just to put it in context, you're saying
5	that's a cause because it causes more groundwater
6	<pre>pumping; is that correct?</pre>
7	A. It causes more groundwater pumping and
8	reduces the amount of aquifer recharge.
a	O Whatle a milet management Harry dans a milet

- Q. What's a pilot program? How does a pilot program distinguish itself from an actual or a grown-up program?
 - A. Pilot program is a test program.

- Q. Okay. So when you're talking about a pilot program, it's just a test. What is it testing?
- A. It is a test of how depletion reduction program involving irrigated agriculture could be accomplished within the New Mexico state law and the operations of the Rio Grande -- or the operations of EBID and the other constraints that exist.
- Q. And what's the -- the magnitude? What's the relative magnitude of -- of the test program? Is it 5 percent of the wells in the Lower Rio Grande in New Mexico? Is it more? Is it less?
- A. It's based on acreage, not on wells, and I don't know what the number will be.

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Q. So it hasn't been -- it hasn't -- it's in process, the -- the pilot program hasn't really been implemented then; is that correct?

- A. That's correct.
- Q. Okay. When was New Mexico, to your knowledge, first aware that the groundwater basin in the lower Rio Grande was being mined?
 - A. I would say it would be around 2010.
- Q. 2010. What occurred in 2010 to make New Mexico aware of the fact that it was being mined?
- The awareness of the -- the groundwater being Α. mined came out of observations of the groundwater levels, and historically, groundwater levels in the Lower Rio Grande have dropped during times of drought or low project supply and then recovered thereafter. This happened in the '50s and in low supply periods in the '60s and '70s. It also occurred in 2000. Groundwater levels dropped during the low supply years of 2003/2004. What happened next is the -- in 2006, D3 allocation started, and EBID allocation of surface water was reduced, and in the years around in 2006, 2007, 2008, 2009, the project -- I guess it was really 2007, '8, and '9, the project had enough water for a full supply in those years, but EBID's allocation remained low, and -- but the -- so despite the fact

that the project had full supply, EBID did not, and groundwater levels did not recover, and that was the indication I'd say that we've gone into a regime of mining because we expect groundwater levels to decline in years where we've got a low ground -- low -- low project supply, but we expect them to come back up when the project -- thereafter when the project has a full supply again, and that did not happen in the years 2007, '8, '9, '10, when the project had enough water -- enough usable water for a full supply.

- Q. So roughly the State became aware of mining about ten years ago; is that correct?
 - A. Yeah.

- Q. Do you know whether or not there have been any priority calls in the Lower Rio Grande?
 - A. Not that I'm aware of.
- Q. I think in your first deposition, you indicated that when New Mexico administered water rights, it does so to protect seniors. Is that -- do I recall that? Is that a correct statement?
- A. That sounds generally -- that's generally right. There's different kinds of administration and -- and they would protect or deal with the seniors in different ways, but in general, the senior right is the better right in New Mexico.

similar in terms of what they show?

- A. They show that the use over this time period anyway is -- it fluctuated, but it was not a -- it did not show a trend of increased water use with time.
 - O. If there --
 - A. With time.

Q. Okay. If there was an increased depletion or increased consumption, where was the extra water coming from that's being consumed? Is it reducing return flows? Is it -- where does it come from? Something's got to supply the additional consumption, I assume?

MR. WECHSLER: Object to form.

- A. So if we're going into a hypothetical mode question, I'd rather not since the more recent data is different than -- more recent results are different than this, I'd rather not. So hypothetically, if you have an increase in agricultural consumption with time in -- within the Rio Grande project, it meant the water could come from a number of places. There could be increased releases from reservoir storage. There could be a reduction in return flows as you suggested. There could be mining of the groundwater system.
- Q. (BY MR. SOMACH) Okay. Next slide. And the Bates number on this is New Mexico 00096265. What is

this showing you?

- A. This shows the same data as the previous slide except I've added on the top an estimate of the consumptive use of groundwater by lands that are not served by EBID, but they are irrigated by groundwater only.
- Q. And what is the relevance of -- of this particular chart? Why did you -- you put this in there?
- A. It's the same purpose as the last chart except it's more complete since it includes all the irrigated acreage in the Lower Rio Grande.
- Q. So depletion comes not just from EBID lands but from lands outside EBID; is that -- is that correct?
 - A. Right. Lands not served by EBID.
- Q. Okay. And then the next slide. That one is talking about municipal and industrial water use; is that correct?
- A. Yeah. This is the estimated depletion associated with municipal and industrial water use.
- Q. And those have increased from -- you start this at 1953, a little under 5,000 acre-feet a year to in excess of, well, maybe about 22,000 acre-feet per year in 2001; is that correct?

1 Α. Yeah. 2 Next -- the next slide. Okay. You -- this 3 slide is entitled, "The facts we must deal with." 4 "We" is the State of New Mexico at large; is that 5 correct? 6 Α. That's right. 7 Well, the first fact, I assume it's a fact 8 and that we're -- we're not living in Washington DC or 9 somewhere, the fact means it's true, right? Is that 10 correct? 11 Yeah. Α. 12 Okay. I just -- I'm just -- so the first 13 fact is, "Groundwater and surface water behave as a 14 single resource." Is that correct? 15 Yes. And by which I meant I was attempting 16 to get across the concept that groundwater and surface 17 water are connected, and you cannot pump groundwater 18 without impact to surface water, which you may be 19 surprised, but there are many people who do not 20 believe this, and when I'm giving presentations in the 21 wild, I have to emphasize this. 22 I'm sure John Utton won't feel slighted by Ο. 23 being in the wild somewhere. This was to the Lower 24 Rio Grande Water Users Group, wasn't it?

Yeah. And that's true that they are more

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Α.

sophisticated on these issues than --1 2 I'm just joking. I know you didn't 0. Okay. 3 mean anything. Let's go to --No offense. 4 Α. 5 0. Can we go to the next slide? 6 Α. Oh, yeah. 7 Again, "The facts we must deal with. 8 Groundwater pumping has been increasing in the Lower 9 Rio Grande." Is that correct? 10 Α. Yes. 11 And notwithstanding your qualification on 12 some of those earlier exhibits, the prior data still 13 shows groundwater pumping is increasing; isn't that 14 true? 15 Well, groundwater pumping looks pretty stable 16 to me over the past 20 years or so. 17 Ο. Since -- give me 20 years or so, what does 18 that take us back to, 2000? 19 Α. I mean, of course, groundwater pumping Yeah. 20 for irrigation varies from year to year depending on 21 surface water supply. But --22 So -- go ahead. Ο. 23 So I guess I'm getting back to the analysis I Α. 24 did groundwater pumping plus surface water application 25 for irrigation, that total has not been changing, and

then irrigation pumping for municipal and industrial use, again, has been pretty -- it's -- it's pretty flat. It had not been increasing since about the year 2000.

Q. Okay. So this is not a fact? This isn't true, this first bullet?

- A. Well, it depends what time frame you're talking about. I'm giving this talk in 2005. Things were -- irrigation -- M&I pumping had been increasing over the couple of decades before that, and irrigation well pumping in and of itself had certainly increased from the time of full supply in the '80s and '90s into -- increased from that when we got into the low supply years of 2003 and 2004.
- Q. Okay. The next bullet, you have ranges of numbers. Are those ranges that says, "Groundwater pumping for irrigation use alone may be as high as," and it comes up with 50,000 to 200,000 acre feet a year in full project supply years and 200,000 to 300,000, and you've got equivocation there with a question mark, acre feet per year in low project supply years. Are those still facts that you believe to be true?
- A. Those numbers were estimated. This is before we had the metering program implemented, and -- but

they're still pretty good.

- Q. Okay. So these are -- these are still good numbers. Go to the next slide. I think you've testified to that a whole bunch of times. Is that groundwater pumping dries up drains. That's --
 - A. Yes.

- Q. Okay. Go to the next one. "Drain flows are part of the water supply of the Rio Grande project."

 I think you've said that already; is that accurate?
 - A. Yes.
- Q. Okay. Now, the first bullet point says, "Historically, drain flows have added about 20 percent to project diversions." Is that an accurate -- you still believe that's accurate?
 - A. Yeah.
- Q. So -- and I realize there are other things that you talked about adding to the project supply, but let's just focus on return flows. If you were to look at the amount of water that's -- in any given year that's released from the reservoir and allocated and assume that's 100 percent, would you add 20 percent to that to give yourself essentially 120 percent of supply? Does that make any sense?
 - A. Almost.
 - O. But did --

Α. Delete the words and allocated. 1 2 That's fine. Take it out. All I'm trying to 0. 3 say is that 20 percent isn't new water, it's reused 4 water, it's water that needs to be used twice in order 5 to meet project purposes; is that correct? 6 Α. Right. It's water that is recycled and so 7 for a release of a hundred, you can deliver 120. 8 Okay. Next bullet says, "When the drains are 9 dry," that is when you don't get the 20 percent, I 10 assume, "the Rio Grande project water supply is 11 reduced and project water cannot be delivered 12 efficiently." That's accurate, isn't it? You've 13 testified to that today? 14 Α. Yes. 15 Okay. And, I guess, at that point in time, 0. 16 you thought that groundwater pumping was a problem; is 17 that -- is that accurate? 18 Α. Well, it was our belief that it could be a 19 problem, and we needed to get the tools in place to 20 deal with it. 21 That's how you articulated it earlier, and so 22 what I'd like to do is -- is focus on the word could 23 be a problem. Why do you equivocate there? What is

causing you to stop from saying, yeah, in 2005, we

thought it was a problem?

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In 2005, we thought it could be a problem, that this could be a problem we would have to face.

- Is the purpose of the PowerPoint presentation 0. to convince groundwater pumpers that they need to be regulated?
 - Α. Yes.
- So you want to regulate them because Q. of a could be a problem or because there is a problem?
- We wanted to regulate them because there could be a problem, and perhaps in trying to convince them, we tried to be as persuasive as we can. We may imply more than -- I mean, one of the potential problems is that Texas could sue us. That was not a problem at the moment. Texas was not suing us at the moment, but it was -- it could be a problem, and indeed, it has come to pass.
- Ο. Qualitatively, that's quite a different question, isn't it? If you go back, you said, "When the drains are dry, the Rio Grande project water supply is reduced, and project water cannot be delivered efficiently." Then you proceed in your PowerPoint to say the drains are dry, groundwater pumping has increased. Is that a could be a problem again or is that the problem, and you're addressing it?

- A. Okay. I say the drains are dry?
- Q. Yes. If you go back -- well, here, go -- go to the one you're on. You can just start there.

 Drain flows are part of the project supply. You say when the drains are dry. Do you see that?
 - A. Yeah.

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- Q. If that occurs, is that a problem?
- Well -- for many years, the project operated, and farmers in both Texas and New Mexico pumped groundwater, especially in times of shortage, and dried up the drains after the low supply years and the -- the drains recovered and groundwater levels recovered. Is that a problem? It seemed like the project was working pretty effectively back then, and we -- pumping of groundwater is what kept the project going during times of low supply. So not all groundwater pumping is necessarily a problem. advantages outweigh the detriments, and whether this is a problem to the extent that action needs to be taken in curtailing water rights, we certainly weren't at that stage, but we saw that as a possibility, and we wanted to get the tools in place that would allow us to do it if necessary.
- Q. Okay. So as I'm understanding it, there was no problem in 2005. You were worried about -- and

SIGNATURE OF WITNESS I, PEGGY BARROLL, solemnly swear or affirm under the pains and penalties of perjury that the foregoing pages contain a true and correct transcript of the testimony given by me at the time and place stated with the corrections, if any, and the reasons therefor noted on the foregoing correction page(s). PEGGY BARROLL Job No. 63574

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              IN THE SUPREME COURT OF THE UNITED STATES
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               BEFORE THE OFFICE OF THE SPECIAL MASTER
                        HON. MICHAEL J. MELLOY
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 4
      STATE OF TEXAS
 5
              Plaintiff,
                                       Original Action Case
                                       No. 220141
 6
      VS.
                                       (Original 141)
 7
      STATE OF NEW MEXICO,
      and STATE OF COLORADO,
 8
              Defendants.
 9
10
     THE STATE OF TEXAS :
11
     COUNTY
             OF
                HARRIS:
12
         I, HEATHER L. GARZA, a Certified Shorthand
13
     Reporter in and for the State of Texas, do hereby
14
     certify that the facts as stated by me in the caption
     hereto are true; that the above and foregoing answers
15
16
     of the witness, PEGGY BARROLL, to the interrogatories
17
     as indicated were made before me by the said witness
18
     after being first remotely duly sworn to testify the
19
     truth, and same were reduced to typewriting under my
20
    direction; that the above and foregoing deposition as
21
     set forth in typewriting is a full, true, and correct
22
    transcript of the proceedings had at the time of
23
    taking of said deposition.
24
              I further certify that I am not, in any
25
     capacity, a regular employee of the party in whose
```

1 behalf this deposition is taken, nor in the regular 2 employ of this attorney; and I certify that I am not 3 interested in the cause, nor of kin or counsel to 4 either of the parties. 5 6 That the amount of time used by each party at 7 the deposition is as follows: 8 MR. SOMACH - 04:43:05 MR. WECHSLER - 00:00:00 MR. LEININGER - 00:00:00 9 MR. WALLACE - 00:00:00 MS. O'BRIEN - 00:00:00 10 11 GIVEN UNDER MY HAND AND SEAL OF OFFICE, this, the 25th day of July, 2020. 12 13 14 HEATHER L. GARZA, CSR, RPR, CRR 15 Certification No.: 8262 Expiration Date: 04-30-22 16 17 Worldwide Court Reporters, Inc. Firm Registration No. 223 18 3000 Weslayan, Suite 235 Houston, TX 77027 19 800-745-1101 20 21 22 23 24 25

IN THE SUPREME COURT OF THE UNITED STATES
BEFORE THE OFFICE OF THE SPECIAL MASTER
HON. MICHAEL J. MELLOY

STATE OF TEXAS)	
)	
Plaintiff,)	
)	Original Action Case
VS.)	No. 220141
)	(Original 141)
STATE OF NEW MEXICO,)	
and STATE OF COLORADO,)	
)	
Defendants.)	

REMOTE ORAL AND VIDEOTAPED DEPOSITION OF
PEGGY BARROLL
AUGUST 7, 2020
VOLUME 2

REMOTE ORAL AND VIDEOTAPED DEPOSITION of PEGGY BARROLL, produced as a witness at the instance of the Plaintiff State of Texas, and duly sworn, was taken in the above-styled and numbered cause on August 7, 2020, from 8:01 a.m. to 3:40 p.m., before Heather L. Garza, CSR, RPR, in and for the State of Texas, recorded by machine shorthand, at the offices of HEATHER L. GARZA, CSR, RPR, The Woodlands, Texas, pursuant to the Federal Rules of Civil Procedure and the provisions stated on the record or attached hereto; that the deposition shall be read and signed.

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          Bert Cortez
          Ian Ferguson
22
          Shelly Dalrymple
          Susan Barela
23
          Estevan Lopez
24
25
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1 THE VIDEOGRAPHER: The time is 8:01 2 a.m., and we are on the record. 3 PEGGY BARROLL, 4 having been first duly sworn, testified as follows: 5 EXAMINATION 6 BY MR. SOMACH: 7 Dr. Barroll, we've got to quit meeting like 0. 8 This is -- you know what I was thinking is we 9 should do some kind of an agreement, you stop writing 10 reports, and I will stop deposing you. 11 Α. Okay. 12 I don't think I've ever deposed a witness Q. 13 over such a long period of time before. So that's a 14 deal, right? 15 Α. Yeah. That's a deal. 16 Q. You'll stop writing reports? 17 MR. SOMACH: Let's make some 18 This is Stuart Somach on behalf of the appearances. 19 State of Texas. I notice that Robert Hoffman from our 20 office is also on the phone. Jeff, appearances for 21 New Mexico? 22 MR. WECHSLER: Jeff Wechsler on behalf 23 of the State of New Mexico, and we also have Shelly 24 Dalrymple, Susan Barela, and Estevan Lopez. 25 MR. SOMACH: Lee, for the United States?

based upon the D2 curve; is that correct?

A. That's -- that's the way that Dr. Blair describes it, yeah.

Q. Well, how would you describe it? Do you

- Q. Well, how would you describe it? Do you -- do you believe that it's -- it's something else, other than that?
- A. I believe that may have been the intent, but that's not how it worked out, that EP No. 1 is getting allocated or getting the ability to use more water than they did under -- in the D2 period, because of -- largely because of changes in accounting. So in the end, they're being -- the amount of water that things are carved out for EP No. 1 is even larger than the D2 share.
- Q. If you use D2 as the basis of what EBID and EP No. 1 should get without a D3 and adjusted the respective allocation to EBID to -- to obtain what the D2 curve would provide, would EP No. 1 be shorted -- would they -- would they fall below the D2?
 - A. I'm not sure I understand the question.
- Q. Yeah. What happens if you eliminated D3? Okay?
 - A. If you just use the straight D1/D2 curves --
 - Q. Yeah.
- A. -- as described in the water supply

allocation before its procedures to allocate water, what would happen?

Q. Yes.

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A. I would think what would happen is the project would be allocating more water than they might -- than they could deliver, which would be potentially be a problem.

Q. Could you explain that? I don't -- I actually don't understand that answer.

So the D2 curve tells -- calculates how much Α. water supply, project supply, there's going to be for a given release from storage, and then that water split up between Mexico and the two districts. number you get off the D2 curve is higher than the charged diversions that can be delivered from that same release of water and so if you use the D2 curve the way they had been to calculate the total amount of project supply, that's more water than would be delivered in the way of charged diversions or allocation charges. And in parts, that's because there's been a change in accounting so not all the water that used to count as part of the D2 curve is no longer being charged. Some of that water is no longer being charged as project diversions, and some of it is a result of physical changes, less drain flow, more

river seepage throughout the project. But in either case, it -- the Bureau used the D2 curve, used D1/D2 as it had been previously documented, I believe they would probably be allocating more water than they could deliver in the way of charged diversions, and operationally, that could cause problems for them.

- Q. Is the -- is the reduced drain flow and seepage that you mention, that -- that's a result of groundwater pumping, isn't it?
 - A. Yes.

- Q. Are -- is the purpose of this chapter to say you ought to be -- you ought to drop the D3 out of the equation and just go with D1/D2?
- A. I'm not really making a recommendation in this chapter. I'm just trying to quantify the effective -- the switch to D3 and so I can compare that to the impact of New Mexico pumping.
- Q. With respect to your discussion of carryover, did you assume that if water was not carried over, it would be used in the year it was allocated or did you assume it would be carried over, then split the next year 57/43?
- A. I assume that any water not called for or any allocation not used, water associated -- the water in storage associated with that unused allocation would

stay in storage and be in the pool available for allocation in 57/43 the next year.

Q. Okay.

- A. That's what the model assumes. I -- I mean, when it's doing Run 11.
 - Q. That's the rule; is that right?
 - A. Yeah.
- Q. Okay. On that same page, you have a paragraph that says, "A large magnitude EBID impacts," and so forth, then you have two subparagraphs, 1 and 2. With respect to two, you say, "The hydrological --hydrologic effects of the increase in New Mexico groundwater pumping and decrease in aquifer recharge caused by the 2008 operating agreement." I said the words right, but I read it in an awkward way. Then you say, "These aquifer impacts reduce project performance, reduce the diversion ratio, reduce project supply, and thus further reduce EBID allocation under the D3 allocation method, i.e. the vicious cycle," in parens. Did I read the words right, even if I emphasized the word?
 - A. Yes, I think so.
- Q. Okay. Are you saying there that groundwater pumping in and of itself is a problem, and the 2008 operating agreement by reducing surface water to EBID

exacerbates the problem?

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So I -- I interpret that as asking if groundwater pumping in New Mexico was a problem before the operating agreement, and in my opinion, it could have been a problem before the operating agreement. Ι certainly was concerned about the level of groundwater pumping before the operating agreement, but up until that time, there had been pumping during low supply years that after the low supply period ended, groundwater levels had recovered, and so previously, groundwater pumping had worked to tie EBID and EP No. 1, for that matter, over during low supply periods and that the aguifer in New Mexico, at least, had recovered following that and so when -- before the operating agreement, when I was looking at the problem back when we were proposing those AWRM rules, we had just had a couple of really low supply years in which there have been a lot of New Mexico pumping and I think I was concerned that we were getting into trouble with the amount of pumping in New Mexico, but I'm not sure that it would have been a problem without the operating agreement going into effect.

Q. Well, let me ask you this: If not expressed, certainly implicit in that statement that we've been talking about, is the recognition that pumping from

Page 205

```
1
    the groundwater aquifer there has an impact on project
2
     operations? Isn't -- isn't that correct?
3
        A.
             It does have an impact on project operations,
4
    yes.
5
             Okay. The next paragraph that starts
        Q.
6
    with, "Comparison," do you see that?
7
         A.
             Yeah.
8
         0.
             You say, "Comparison of the results described
9
     above shows that the reduction on its -- reduction in
10
     EBID allocation diversion caused by the 2008 operating
11
    agreement, parens, D3 plus carryover, end parens, is
12
    much larger than the effect of New Mexico groundwater
13
    pumping on EPCWID in the years leading up to the
14
     adoption of D3 plus carryover." First of all,
15
     expressed, I think, in there is a -- a statement that
16
    New Mexico groundwater pumping has a adverse effect on
17
    EPCWID. Is that -- I mean, I think that's what that
18
    says. Is that correct?
19
             Well, I believe that Run 3 calculates the
         A.
20
    (impact) of all New Mexico pumping, you know, comparison
21
    of a base run, and Run 3 calculates the impact of all
22
    New Mexico pumping on the project on EP No. 1's
23
    allocation and the delivery. And indeed in some years
24
    there is a reduction in EP No. 1's allocation and
25
    delivery (that) can be attributed to groundwater pumping
```

in New Mexico.

- Q. So in that statement, is -- is part of the concern that EBID is bearing the burden of non-EBID groundwater pumping?
- A. Well, I don't know that it comes to play in this sentence. I mean, what I'm saying is that if you actually calculate the impact of New Mexico pumping on EP No. 1, it's significantly smaller than the impact of the operating agreement on EBID. So EBID is overpaying, and the overpayments related to a lot of different things, the changes in project allocation -- I mean, project accounting, and it's also related, actually, to the vicious cycle, which means that once it gets going, it just -- positive feedback loop occurs, and it gets worse and worse, so EBID ends up paying more and more because of what the -- the positive feedback loop.
- Q. If you take a look at, again, the same page beginning where it says -- the very bottom of that page and carrying over to Roman Numeral 7, "In sum, the analyses I have presented demonstrate that the actual impact of New Mexico groundwater pumping on EPCWID is far less" -- which is bolded -- "than the amount of project supply that has been reallocated away from EBID under the 2008 operating agreement, D3

plus carryover." Did I read that correctly?

A. Yes.

- Q. That's the fundamental conclusion you're reaching; is that correct?
 - A. That's correct.
- Q. So, again, it recognizes that there is an impact on EPCWID from New Mexico groundwater pumping, but you're saying that the operating agreements adverse impact on EBID is much greater than the impact of groundwater pumping in New Mexico that it has on EPCWID; is that -- is that what you're saying there?
- A. Yeah. That's what I'm saying there. And, in fact, when I think back on what the New -- what the U.S. experts were saying, I mean, Dr. King and Dr. Ferguson were talking about the operating agreement being a mechanism to offset New Mexico's additional pumping in excess of what occurred during the D1/D2 period or additional New Mexico depletions beyond what was occurring during the D1/D2 period, and the calculation I made is even more conservative than that. It takes into account the effect of all New Mexico pumping.
- Q. If I go to what is now Page 1 of your report, this is -- this is where you get into more detail, but I want to make sure that the introduction doesn't

1 introduce any -- any new purposes or concepts than 2 what we're in, in your original summary. It's just 3 amplifying on what's in the summary; is that correct? 4 Α. That was my intent. 5 So you lay out five -- five things that 0. 6 you're looking at, which -- and you lay out five 7 things in the summary opinion conclusion part of your 8 Are they the same things? Is that --9 I believe they're the same things. The Α. 10 lawyers insist it be identical. 11 Okay. That's good -- good thing. Q. 12 Α. My editors insisted they be identical. 13 THE REPORTER: I'm sorry. Please repeat 14 what you just said. 15 THE WITNESS: My editors insisted they 16 be identical. 17 0. (BY MR. SOMACH) The -- if you look to about 18 mid page on Page 1, you say, "The rebuttal report 19 filed July 15, 2020, by Gregory K. Sullivan." Do you 20 see that there? 21 Α. Yes. 22 Then if you look at the last sentence, it Q. 23 says, "The ILRGM simulates the groundwater systems of 24 the Rincon, Mesilla, and Hueco Bolson/El Paso Valley,

and also actively simulated -- simulates the

allocation and distribution of water by the Rio Grande Project." Do you see that?

A. Yes.

- Q. I read that right, right?
- A. Uh-huh.
- Q. There are two things in that paragraph. I want to focus a bit on the -- the first clause just to understand it. You say, "The ILRGM simulates the groundwater systems of the Rincon, Mesilla, Hueco Bolson, El Paso Valley." I thought it was the MODFLOW models that simulate the groundwater basins, and they were fed into the ILRG. You know, perhaps you can correct me in terms of my understanding or at least explain, if the ILRG simulates the groundwater systems, what is the purpose of the two MODFLOW models that were also reported on in July?
- A. Well, I -- we may be in a question of definition. I -- I take the ILRGM to be the accommodation of two MODFLOW models, a RiverWare model and whatever connective tissue is needed to get those models to talk to each other.
- Q. Well, let's focus on some of the connective tissue you just talked about. The MODFLOW models themselves have a connective tissue aside from the RiverWare model in terms of the way the groundwater

WITNESS CORRECTIONS AND SIGNATURE Please indicate changes on this sheet of paper, giving the change, page number, line number and reason for the change. Please sign each page of changes. PAGE/LINE CORRECTION REASON FOR CHANGE change PEGGY BARROLL, VOLUME II

SIGNATURE OF WITNESS I, PEGGY BARROLL, solemnly swear or affirm under the pains and penalties of perjury that the foregoing pages contain a true and correct transcript of the testimony given by me at the time and place stated with the corrections, if any, and the reasons therefor noted on the foregoing correction page(s). PEGGY BARROLL, VOLUME II Job No. 65038

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              IN THE SUPREME COURT OF THE UNITED STATES
2
               BEFORE THE OFFICE OF THE SPECIAL MASTER
                       HON. MICHAEL J. MELLOY
3
4
      STATE OF TEXAS
                                 )
5
              Plaintiff,
                                       Original Action Case
6
     VS.
                                       No. 220141
                                       (Original 141)
7
      STATE OF NEW MEXICO,
      and STATE OF COLORADO,
8
              Defendants.
9
10
    THE STATE OF TEXAS:
11
    COUNTY
             OF
                 HARRIS:
12
         I, HEATHER L. GARZA, a Certified Shorthand
13
    Reporter in and for the State of Texas, do hereby
14
    certify that the facts as stated by me in the caption
15
    hereto are true; that the above and foregoing answers
16
    of the witness, PEGGY BARROLL, to the interrogatories
17
     as indicated were made before me by the said witness
18
     after being first remotely duly sworn to testify the
19
     truth, and same were reduced to typewriting under my
20
     direction; that the above and foregoing deposition as
21
     set forth in typewriting is a full, true, and correct
22
     transcript of the proceedings had at the time of
23
     taking of said deposition.
24
              I further certify that I am not, in any
25
     capacity, a regular employee of the party in whose
```

1 behalf this deposition is taken, nor in the regular 2 employ of this attorney; and I certify that I am not 3 interested in the cause, nor of kin or counsel to 4 either of the parties. 5 6 That the amount of time used by each party at 7 the deposition is as follows: 8 MR. SOMACH - 02:27:02 MR. WECHSLER - 00:00:00 9 MR. LEININGER - 01:39:53 MR. WALLACE - 00:00:00 10 MS. O'BRIEN - 00:00:00 MS. BARNCASTLE - 00:00:00 11 12 GIVEN UNDER MY HAND AND SEAL OF OFFICE, this, the 2nd day of September, 2020. 13 14 Hoather 15 HEATHER L. GARZA, CSR, RPR, Certification No.: 8262 16 Expiration Date: 04 - 30 - 2217 Worldwide Court Reporters, Inc. 18 Firm Registration No. 223 3000 Weslayan, Suite 235 19 Houston, TX 77027 800-745-1101 20 21 22 23 24 25

IN THE SUPREME COURT OF THE UNITED STATES
BEFORE THE OFFICE OF THE SPECIAL MASTER
HON. MICHAEL J. MELLOY

STATE OF TEXAS)	
)	
Plaintiff,)	
)	Original Action Case
VS.)	No. 220141
)	(Original 141)
STATE OF NEW MEXICO,)	
and STATE OF COLORADO,)	
)	
Defendants.)	

REMOTE ORAL AND VIDEOTAPED DEPOSITION OF
PEGGY BARROLL
OCTOBER 21, 2020

REMOTE ORAL AND VIDEOTAPED DEPOSITION of PEGGY BARROLL, produced as a witness at the instance of the United States, and duly sworn, was taken in the above-styled and numbered cause on October 21, 2020, from 1:02 p.m. to 3:29 p.m, before Heather L. Garza, CSR, RPR, in and for the State of Texas, recorded by machine shorthand, at the offices of HEATHER L. GARZA, CSR, RPR, The Woodlands, Texas, pursuant to the Federal Rules of Civil Procedure and the provisions stated on the record or attached hereto; that the deposition shall be read and signed.

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23
24
25
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1	ALSO PRESENT:
2	Arianne Singer
	Estevan Lopez
3	Greg Ridgley
	John D'Antonio
4	Erek Fuchs
	Michelle Estrada-Lopez
5	Al Blair
	Bert Cortez
6	Shelly Dalrymple
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THE VIDEOGRAPHER:
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                                      The time is 1:02 p.m.
2
    We're on the record.
 3
                   (The witness was sworn.)
 4
                   MR. DUBOIS: Why don't we do
5
                   For the United States, I am James
    appearances.
 6
    Dubois.
             I am one of the attorneys for the United
7
    States, and Jennifer Najjar, Shelly Randel, and I
8
    think eventually Mr. Leininger -- yes, Lee Leininger
9
    also on for the United States, and I think that is --
10
    oh, and Bert Cortez and Ian Ferguson. That's it. So
11
    New Mexico?
12
                   MR. WECHSLER: Jeff Wechsler for the
13
    State of New Mexico. We also have Lisa Thompson,
14
    Susan Barela, Arianne Singer, Greg Ridgley, John
15
    D'Antonio, and Shelly Dalrymple.
16
                   MR. DUBOIS: For Texas?
                   MS. KLAHN: Sarah Klahn for the State of
17
18
    Texas, and I'm joined by Stuart Somach.
19
                   MR. DUBOIS: Colorado?
20
                   MR. HARTMAN: Preston Hartman for
21
    Colorado.
22
                   MR. DUBOIS: Let's go to the amici.
                                                         Is
2.3
    anyone on for EB -- EPCWID?
                                  Renea?
24
                   MR. HICKS: Hold on. I'm here.
25
    didn't know Maria wasn't on.
```

1	MR. DUBOIS: I don't see her.
2	MR. HICKS: Okay. She just skipped out
3	on me then. I'm here.
4	MR. DUBOIS: Is anybody else on?
5	MS. COLEMAN: Judy Coleman is on for the
6	United States.
7	MR. DUBOIS: Thank you, Judy. Renea,
8	also, Al Blair is on.
9	For EBID?
10	MS. BARNCASTLE: Yes. This is Samantha
11	Barncastle for the Elephant Butte Irrigation District,
12	and I'm joined by Dr. Erek Fuchs.
13	MR. DUBOIS: Okay. Let me see who else.
14	I'm just sort of scanning through and seeing who's on.
15	Is NMSU on?
16	(No response.)
17	MR. DUBOIS: No. City of El Paso?
18	MR. CAROOM: Doug Caroom for the City of
19	El Paso.
20	MR. DUBOIS: And are there any other
21	representatives on for any of the other amici?
22	(No response.)
23	MR. DUBOIS: Okay. I don't see any.
24	
25	

1 PEGGY BARROLL, 2 having been first duly sworn, testified as follows: 3 EXAMINATION 4 BY MR. DUBOIS: 5 All right. Can you state your name for the Q. 6 record, please, Dr. Barroll? 7 Α. Margaret Barroll. All right. Now, you've been deposed in this 8 9 proceeding before once or twice or three times or 10 possibly more so you know the basic ground rules, but 11 I'll go over them anyway. You're under oath as if you 12 were in a court of law. We will try not to talk over 13 Let me finish my questions, and I will each other. 14 try to let you -- to not interrupt your answers. 15 you don't understand one of my questions, please let 16 me know, and I will try to rephrase it. Otherwise, 17 I'll assume you understand the question. Your other 18 communication devices such as e-mail and texts should 19 be off, and I think that's about it. 20 You've been identified as a 30(b)(6) witness 21 on behalf of New Mexico with respect to limited 22 topics; is that right? 2.3 Α. That's right. 24 Q. Okay. 25 Kayla, will you pull up the MR. DUBOIS:

Compact and the actual delivery of Compact water by the Project to Mexico to work as necessary with Reclamation to ensure that can occur and then Mexico also -- New Mexico is also responsible to act in good faith to resolve any issues raised by Compact parties as to New Mexico's activities below Elephant Butte, especially as to how they might affect the Rio Grande project.

- Q. What do you mean by cooperating with Reclamation to effectuate the delivery of Compact water to the project?
 - A. Well, Reclamation --
 - Q. By the project?

2.3

- A. Well, Reclamation and the project are how the Compact is effectuated below Elephant Butte. The Compact -- sorry. The project is the mechanism by which project water is delivered below Elephant Butte, and New Mexico is the state in which some of this is occurring, and New Mexico has the responsibility not to interfere with that or not to -- or to ensure that that can occur to work in --
- Q. And how -- I'm sorry. I didn't mean to cut you off.
- A. Yeah. To work in concert with Reclamation when it comes to whatever is necessary surface water

distribution of the project.

2.3

Q. What do you mean by New Mexico has the responsibility not to interfere?

- A. I would say to not pass laws or -- I mean, to -- to ensure that New Mexico's laws and rules and regulations are consistent with the needs of the -- the project's distribution of surface water. To work in good faith with the project, like, for example, when Reclamation EBID wanted to add a point of diversion in one of the wasteways, we ended up coming to an understanding with Bureau of Reclamation as to how that fit into their --
- Q. Does -- does New Mexico have any obligation to administer non-project surface rights to -- let me rephrase that one.

Does New Mexico have any obligation to administer water rights in the State of New Mexico to protect or administer the surface water supply of the Rio Grande project once water has been stored in Elephant Butte reservoir?

MR. WECHSLER: Object to form.

A. Well, the surface water system has been fully appropriated in the Lower Rio Grande and has been since 1907 -- 1908 is my understanding. And so New Mexico cannot grant any additional surface water

1 rights, and New Mexico must enforce against illegal 2 surface water diversions that would be adverse to the 3 project. 4 0. (BY MR. DUBOIS) What do you mean that the 5 surface water system has been fully appropriated since 6 1907 or 1908? 7 I believe that is when the U.S. filed a 8 letter with the territorial engineer appropriating all 9 the surface water of the Rio Grande. 10 0. But -- but what does fully appropriated mean 11 to you? 12 Α. To me, it means that we cannot issue or allow 13 any additional appropriations of surface water and --14 yeah, I think that's what it means. 15 Okay. So all -- all of the surface water in 16 the Rio Grande has been allocated by appropriation as 17 of that date? Would that be another way of saying 18 that? 19 Α. Yes. That's my understanding. 20 So does New Mexico have any obligation 21 to assure that the usable water released from storage 22 in Elephant Butte reservoir is delivered to the Rio 2.3 Grande Project below Elephant Butte reservoir? 24 MR. WECHSLER: Object to form. 25

Well, as soon as the water -- as soon as

Α.

usable water is released from storage, it is, in fact, usable water or project supply.

- Q. (BY MR. DUBOIS) So does the State of New Mexico have any obligation to assure that the usable water that's released from storage is delivered to the project below Elephant Butte?
- A. I believe that if the Compacting parties or project beneficiaries believe there's a problem in the delivery of project water caused in New Mexico, that New Mexico has the obligation to address that, either as a Compact issue or as a water rights administration issue.
- Q. Okay. Does New Mexico take any steps to administer water rights in the Rio Grande basin below Elephant Butte to assure that the project water supply is not depleted or reduced by non-project water users in New Mexico?
- A. New Mexico takes many steps to administer
 water below Caballo, below Elephant Butte, in order to
 protect the water users and protect the project, such
 as enforcing against illegal diversions, metering
 groundwater, enforcing against over diversions, our
 application process by which no additional
 appropriations can be approved without offsets. There
 are many steps New Mexico takes for administering

1	water below Elephant Butte.
2	Q. Okay.
3	A. New Mexico does not have an obligation to
4	ensure that no depletions occur.
5	Q. You said that New Mexico has a an
6	obligation to prevent over diversion. What are you
7	defining as over diversion?
8	MR. WECHSLER: Object to the form.
9	A. Over diversion would be an excess of the
10	limit of a water right.
11	Q. (BY MR. DUBOIS) And that limit is set by a
12	permit or license? I don't recall exactly what New
13	Mexico calls them.
14	A. Yeah. It depends. We have both permits; we
15	have licenses. But, for example, in the case of
16	irrigation groundwater use, those are set by the 101
17	rule sorry by the the judge's order, the
18	final statement of the judge in the Stream System 101
19	case at the New Mexico adjudication.
20	Q. And so
21	A. And that's
22	Q. So that would be as I understand it, over
23	diversion under Stream System 101 would be if the
24	diversions exceed either four-and-a-half or
25	five-and-a-half acre-feet per acre?

1 That's correct. Α. 2 Is that correct? All right. And so you -- I 3 was just -- I was trying to scratch things down 4 because I don't go nearly as fast as Heather does. 5 You said that the State takes administrative action to 6 -- to prohibit illegal diversions. That was one 7 thing, I think; is that correct? 8 Α. Yes. Yes. 9 Ο. What are illegal -- what are illegal 10 diversions? 11 It can be a broad term, but I -- what I meant Α. 12 in particular was diversions by people who don't have 13 water rights. 14 15 last ten years? 16 Α. I believe we've been -- had a case sort of

- Okay. And how often has that occurred in the
- dragging for a number of years involving an illegal river pumper that was shut down.

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- Okay. And you mentioned that in -- can you think of any other -- aside from the river diverter that you're talking about that action was taken against, can you think about -- of any other situations in which illegal diversion -- diverters were attempted to be shut down?
 - As far as diversions without water rights, Α.

that's the most recent case I know of. I think there have been other cases involving maybe the highway department pumping water out of the river without a water right, and I believe we had some dealings with IBWC about their diversions from the Rio Grande without water rights.

- Q. All right. The second thing you mentioned was over diversions, and as I understand it, over diversions, as you've defined it, is taking water in excess of the permitted 4-and-a-half or 5-and-a-half acre-feet per acre; is that correct?
 - A. That's correct.

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- Q. Okay. And what's the -- what's the process for -- run me through how that occurs. You've got a pumper, and let's say in 2019, that pumper exceeded -- took too much water. That's just sort of my starting point for this. I don't care what the number is.

 Let's say you took 6 acre-feet. I don't care. How would the -- how would that enforcement occur? Is it -- is the over diversion determined in realtime or at the end of the irrigation season?
- A. Most often, it is determined at the end of the irrigation season. In some instances, the water master has enough data to tell that someone is approaching their limit and tries to work with them

EXAMINATION

BY MS. KLAHN:

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- Q. All right. I'm Sarah Klahn. I represent the State of Texas. I have a few follow-up questions from what Mr. Dubois asked you. At the beginning of the deposition, he asked you what you had done to prepare for the deposition, and you mentioned looking at the AWRM statute and the statewide framework rules. Which section of your topics that you're authorized to testify about on behalf of the State of New Mexico do -- do you understand the AWRM statute and framework rules to fit under? And feel free to -- I think it was Exhibit 1.
 - A. I think I've got a copy. I believe it's C.
 - Q. Okay.
 - A. 1, 2, and 3.
- Q. And the water master order was another document you specifically mentioned?
- A. Yeah.
 - Q. That would be under Topic C or Topic D?
 - A. I'd say it relates to C.
 - Q. Okay. What documents did you review related to Topic D, the first bullet point in Topic D?
- A. I don't know that I reviewed any document
 specifically for that point in addition to the ones I

was reviewing for Topic C.

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- Q. So as far as New Mexico's policies relating to the administration of water delivered to EBID pursuant to the 1938 contracts, what policies would you point to that New Mexico has related to that administration?
- A. Well, the same policies and administration mechanisms that I described earlier, the same policies and administrative mechanisms we use for all water rights in the Lower Rio Grande.
- Q. So you don't distinguish between the contract water delivered as part of Texas' Compact entitlement and just a routine state water right?
- A. So when I look at D1, it talks about New Mexico policies relating to the administration of water delivered to EBID pursuant to the 1938 contracts, the '70/80 operation and maintenance transfer contracts, and the 2008 operating agreements. Your question talked about delivery to Texas.
- Q. No my question was -- I'm limiting my question, first of all, to the first clause in that bullet point, and that's New Mexico's policies related to administration of water delivered to EBID pursuant to the 1938 contracts between --
 - A. Okay.

1 -- the United States and the districts. 0. I'11 2 That's all I want to talk about right now. 3 Okay. And delivery to EBID, though, you're 4 talking about delivery to Texas? 5 The water that is delivered to EBID under the Q. 6 contract is -- gets there as part of the Compact 7 entitlement that Texas is receiving in the Elephant Butte reservoir; is that how you understand it? 8 9 I guess -- I guess there is that --Yeah. 10 that relationship, that the Compact delivery to 11 Elephant Butte is indeed described as delivery to 12 Texas. Yes. Okay. I'm following you. 13 And the water that Texas is entitled to in 14 Elephant Butte Reservoir is the water that but for the 15 amount that EBID is entitled to under its contract on 16 New Mexico treaty, correct? 17 MR. WECHSLER: Object to form. 18 This is beyond the scope of her -- her 19 subjects. 20 MS. KLAHN: I'm trying to establish the 21 foundation to ask the question I asked five minutes 22 ago and trying to see if she understands the -- what 23 I'm asking. So that's where I'm going with this. 24 A. The administration of water below Elephant 25 Butte Reservoir is the same for all of the water

- rights below Elephant Butte Reservoir. We do not have a special administration for water associated with water released pursuant -- that had been stored as part of Texas' entitlement under the Compact.
 - Q. (BY MS. KLAHN) Okay. I'm going to work backwards through the transcript and ask you some follow-up questions about some things that Mr. Dubois asked you. So that's what I'm doing is looking for the spot. Towards the end of his questioning, he asked you a question about the -- whether it was New Mexico's position that New Mexico is the party that would get to determine whether a complaint from Texas, I think, was the point of his question at that point was valid, and you went on to say that depletions that occurred do not -- do not necessarily result in impairment. Do you recall that?
 - A. Yes. I recall it.
 - Q. In the context of this litigation, both sides have conducted groundwater modeling, which shows that the groundwater pumping in New Mexico was depleting the surface water of the Rio Grande; would you agree?
 - A. Yes.

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Q. And would you also agree that even though there's no disagreement, that New Mexico groundwater pumping's depleting the Rio Grande, New Mexico doesn't

1 believe that the depletions impair Texas -- Texas' 2 entitlement; is that right? 3 We certainly do not believe there's a 4 one-to-one relationship between depletions and 5 impairment to Texas. What is the relationship? 6 Q. 7 Α. It's very complex, and it depends on the 8 water supply conditions and the operations of the Rio 9 Grande Project. That's why we have the two -- you 10 know, the integrated model system in order to simulate 11 all of those parts of the system. 12 Q. So are some of those model runs, runs that we 13 should consider to be New Mexico's admission that 14 there's impairment to Texas? 15 MR. WECHSLER: Object to form. I -- no. I think those model runs provide 16 Α. 17 quantitative results that would then feed into any 18 impairment determination. 19 (BY MS. KLAHN) So speaking for New Mexico, 20 your position is that there is some impairment, but 21 you're looking to the Special Master to figure out 22 what that is; is that right? 2.3 MR. WECHSLER: Object to form. That 24 mischaracterizes her prior testimony. 25

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I do not agree with what you said.

impairment, but it's complicated; is that right? 1 2 Α. No. 3 Object to form. Again, MR. WECHSLER: 4 mischaracterizes her testimony. 5 (BY MS. KLAHN) So what did your statement 0. 6 mean a minute ago that New Mexico doesn't believe 7 there's a one-to-one relationship between depletions 8 and impairment? 9 That just because depletion occurs does not Α. 10 mean that there is impairment downstream. 11 So is it New Mexico's position that there's Q. 12 no impairment to Texas from groundwater pumping in New 13 Mexico? 14 Α. I am --15 MR. WECHSLER: Object to form. 16 Α. -- not empowered to testify on behalf of the 17 State of New Mexico on that topic. 18 Q. (BY MS. KLAHN) So, again, towards the end of 19 Mr. Dubois' examination, he was asking you about the 20 State of New Mexico's administrative tools, if you 21 will, for assuring delivery of project water to EBID 22 and EPCWID, and your answer was that, "Water rights 23 are administered in order to protect existing water 24 uses and senior water rights, including the water 25 rights associated with deliveries with the Compact,

but the administration we do is not aimed at particular deliveries." I wanted to follow up with that. How can there be administration of water rights that isn't aimed at particular deliveries? What do you mean by that?

- A. Well, that would seem to be part of the question that Mr. Dubois was asking, what administration did we do to protect particular deliveries or particular flows, and the administration we were performing in the -- in the Lower Rio Grande is not aimed at protection of particular flows or deliveries. Instead, it is normal water rights administration that is aimed at over diversions, stopping illegal diversions, not permitting additional appropriations of water and so on and so forth, not allowing transfers that would impair existing water rights, all in the service of protecting existing water rights and senior right -- water right holders.
- Q. So is the sense then that if you do those things, everything's going to be fine, and you don't have to worry, and if somebody has a complaint, they'll come to the state engineer and say you need to curtail because I'm not getting my water?
- A. Typically, if more active water rights administration in priority is to occur, it is as a

result of a complaint of a senior who is not receiving their water, yes.

- Q. You mentioned a couple of times this concept of water users getting together and developing an alternative scheme. You also mentioned a pilot program. Describe the pilot program and this alternative scheme that you were referring to in your testimony today.
- A. Well, we did not have a fully developed alternative scheme in the Lower Rio Grande. We -- at the moment, we have a pilot program, which there are hopes that might turn into the basis for an alternative administration scheme. The existing pilot program involves money from the State of New Mexico that would be available to pay farmers in order to fallow actively irrigated acreage and thereby reduce groundwater depletions.

MS. KLAHN: Kayla, could you pull up the document that is called ISC fallowing update? I'm going to shut the door, so people can't hear my dogs barking.

(Exhibit No. 2 was marked.)

- Q. (BY MS. KLAHN) Can you see that?
- A. Yeah.

Q. Okay. I can't because I think I've made my

Zoom thing go away again, but if you have control of that, let's take a look at that together. This should be marked as Exhibit 2, I think. Is that right?

A. Yes.

- A. ICB.
- Q. Have you seen this memorandum?
- A. I think I saw a draft of it.
- Q. When was that?
- A. Back in July.
- Q. Did you review this before your deposition today?
- 11 A. No.

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- Q. If you'd go down with me to -- it's a cover memo, which the ISC staff apparently sent to the Interstate Stream Commission asking for approval of this project and then the report that follows is provides some examples, as I understand it, of other efforts around the west that the consultant was looking at.
 - A. I haven't read that report.
- Q. Are you familiar with any of the example projects that the ISC staff are using as a basis for the recommendation?
 - A. I'm -- I'm familiar --
 - Q. Go to PDF Page 12 -- 11, sorry.
- 25 A. PDF Page 11. I have some familiarity with

1 the Fort Sumner Irrigation District program, though 2 I've never worked on it. I am -- have some 3 familiarity with the Lower Arkansas Super Ditch. I 4 was and had presentations by people involved in that 5 system. I'm not familiar with the Upper Colorado 6 River System Conservation Program. I am familiar with 7 the Rio Grande Water Conservation District Subdistrict 8 No. 1. I've been up there, and I've also attended 9 meetings in which people involved in that system have 10 presented information on how -- how it works. 11 Q. Are any of these projects mandatory for the 12 water users; do you know? 13 Not to my knowledge. A . 14 0. Is that the concept that New Mexico's looking 15 at, a voluntary project in the Lower Rio Grande? 16 Well, the pilot project is indeed voluntary. **A**. 17 A farmer wants to get money for fallowing voluntarily 18 would apply and the alternative administration

- A. Well, the pilot project is indeed voluntary.

 A farmer wants to get money for fallowing voluntarily would apply and the alternative administration discussions I have been involved with have also involved voluntary -- voluntary systems by which money is paid to farmers who agree to fallow.
- Q. Did this pilot project -- project arise because of the litigation between Texas and New Mexico in this case?

MR. WECHSLER: Object to form;

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foundation.

- Q. (BY MS. KLAHN) Do you know?
- A. There were a lot of reasons that it has come about in part due to the hydrologic conditions and dropping groundwater levels in the -- the Lower Rio Grande in New Mexico, and it's also because of the current litigation and a lot of different causes that are all related to each other.
- Q. Is the price that New Mexico is looking at paying equivalent to what a pecan farmer could get if he kept his trees in production; do you know?
 - A. I don't know.
- Q. Is the expectation that pecan farmers wouldn't participate in this because they have permanent cover crop?
- A. That is the expectation, though we believe it's possible that there may be some orchards that are not doing well that might end up in the program.
- Q. Has the State of New Mexico done any evaluation of potential folks who would want to participate in this based on what's known about the problems they are having in their production or something like that?
- A. I do not think we have done any evaluation of that nature about individual farmers' situations.

Q. How about any evaluation of potential acreage that might be persuaded to get into this?

A. We have done evaluations of what potential acreage we would consider for the program on the basis of irrigation status, but we have not done any formal evaluation of individual farmer interests. Instead, we — this program is being run together with the Lower Rio Grande Water Users Group, and there have — I believe that the water users group entities have been working with the farmers and have information as to interest among the farmers.

- Q. When you said at the beginning of your answer there that you have -- the I -- the State of New Mexico has done evaluations of what potential acreage you'd consider for the program on the basis of irrigation status, what does that mean?
- A. We have evaluated historical irrigation of acreage on an acre-by-acre basis from the remote sensing, NDVI, and other analysis done mostly as part of the litigation technical work in order to ensure that we are not paying the fallowed acre that is not being irrigated.
- Q. I see. Would the goal be to fallow acreage that is using a lot of water so you'd get a lot of bang for your buck?

1	A. I believe the program will treat acreage
2	equally.
3	Q. So it wouldn't pay more for land that was
4	fallowing or basically wouldn't pay more for for
5	ground that's not going to be using a lot of water, if
6	you will?
7	A. I believe we are not making that distinction.
8	I believe that all land that is satisfies the
9	requirement for irrigation, having been irrigated,
10	will be treated equally.
11	MS. KLAHN: Kayla, could you pull up
12	that deposition exhibit that Yolanda sent to you this
13	morning? It was a single-page agenda item or
14	agenda, sorry.
15	THE VIDEOGRAPHER: Let me make sure I'm
16	pulling up the right one. Hold on.
17	MS. KLAHN: It should say groundwater
18	conservation pilot program. It's a JPEG.
19	(Exhibit No. 3 was marked.)
20	Q. (BY MS. KLAHN) And you have to tell me if
21	it's up because I can't see it.
22	A. I can see it. It's up.
23	Q. And is it the document that relates to some
24	meetings that are scheduled for next week?
25	A. Yes, it is.

- Q. Okay. How many meetings like this has the State of New Mexico had in the Lower Rio Grande; do you know?
- A. So there have been internal meetings between the state and water user group representatives and lawyers. There have been a number of them, but I don't know how many. There have been no public meetings, as yet, to my knowledge.
- Q. So even though this is going to be online, this is the first public -- set of public meetings that's scheduled?
 - A. To my knowledge, that is true.
- Q. Do you have any understanding of the feedback that farmers have given to the state about this, farmers that you've been talking to anyway? What have they said about this program?
- A. My understanding is that the water users group entities, which include the New Mexico diverse crop farmers have been involving their farmers in these plans and that they believe there is interest in participation in this program.
- Q. In the absence of the pilot project, does -is it your understanding that the state engineer could
 authorize a local group of water users like in the
 Lower Rio Grande to come up with their own alternative

scheme for administering water rights?

MR. WECHSLER: Object to form.

- A. Yes. I believe that it would be possible for another group of water users to organize and come up with an alternative administration scheme, which if acceptable to the state engineer, could be approved as alternative administration.
- Q. (BY MS. KLAHN) Would that be under the AWRM statute?
 - A. Yeah. Yes, it would.
- Q. And that was an effort that was begun maybe ten years ago or 15 years ago, not long after the AWRM statute was adopted down in the Lower Rio Grande, right?
 - A. What do you mean, what -- what effort?
- Q. That wasn't a very com -- understandable question. I apologize. I'm remembering a PowerPoint that you did for the Lower Rio Grande water users group from 2006 about 15 years ago was when the state was looking at adopting local AWRM regulations; is that correct?
- A. That's correct. So you're right. Shortly after the passage of the AWRM statute and -- and the promulgation of the AWRM general framework regs, we did do a push to try and get district-specific rules

in place in the Lower Rio Grande but that did not come to fruition.

MS. KLAHN: Kayla, I e-mailed you an -an exhibit that was marked in the Thacker deposition.

THE VIDEOGRAPHER: Okay. It's pulled up. I'm just going to mark it now.

MS. KLAHN: Thank you.

(Exhibit No. 4 was marked.)

MS. KLAHN: So this is going to be

Barroll 3 -- 4, right?

Could you pull that up.

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THE WITNESS: 4.

Q. (BY MS. KLAHN) Could you turn in this document back to -- the document is Bates numbered, and it -- you're welcome to take a look at it. It's a packet of material we received from New Mexico in discovery. It's Bates numbered, and it starts out with while metering requirements. But if you go back to New Mexico No. 210807, there's objectives -- list of objectives. I don't know if you can hear my dogs. I apologize. They're keeping us safe from the mailman.

A. 807. Okay. Let me see if I can rotate this sucker. I rotated it. Okay. So Objectives for Lower Rio Grande District-Specific Regulations.

Q. So I want to draw your attention to Letter H. We've talked a lot today about administration and how it works with the Compact and -- Letter H on 210807 says that one of the objectives for Lower Rio Grande District-Specific Regulations is to establish a system for administration as required to meet downstream interstate delivery entitlements.

A. Yes.

- Q. Do you have an understanding what that objective was aiming for?
- A. My recollection is that at this time, I'm uncertain as to whether there was a down -- any Compact constraints or requirements below Elephant Butte due to the language of the Compact being silent or -- or, rather, at least not specifying -- sorry -- not specifying delivery targets below Elephant Butte. So -- but we thought that that was possible to occur and also thought, I think at the time we were trying to be proactive, and we were trying to estimate what a reasonable downstream delivery would be based on the knowledge we had at the time and come up with an administrative scheme that would allow us to try and meet that.
- Q. If the -- are you familiar with the draft district-specific regulations, what the concept was

behind them?

- A. Yes.
- Q. Was it to drill groundwater wells within a certain distance from the river?
- A. In those rules, we did have -- we did introduce a new administration scheme or propose a new administration scheme, supply administration, and I believe that was for a short-term temporary curtailment of wells that were close to the river.
 - Q. And what --
 - A. In order to support the Rio Grande Project.
- Q. And what was the reason for that approximate
 -- or for that distance from the river for making them
 based on the distance from the river?
- A. Because wells that are a significant distance from the river would not provide any effect on the river within the short periods of time we were thinking about the temporary administration.
- Q. But the wells that are distant from the river are still depleting the river, just taking longer for the effect to hit the river, right?
- A. Yes. This was a short-term administration and, therefore, we were focused on wells that would give a short-term response to the river.
 - Q. Was there any talk of curtailing or maybe not

SIGNATURE OF WITNESS I, PEGGY BARROLL, solemnly swear or affirm under the pains and penalties of perjury that the foregoing pages contain a true and correct transcript of the testimony given by me at the time and place stated with the corrections, if any, and the reasons therefor noted on the foregoing correction page(s). PEGGY BARROLL Job No. 65834 10/21/200 Doposition

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              IN THE SUPREME COURT OF THE UNITED STATES
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               BEFORE THE OFFICE OF THE SPECIAL MASTER
                        HON. MICHAEL J. MELLOY
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      STATE OF TEXAS
 5
              Plaintiff,
                                       Original Action Case
 6
      VS.
                                       No. 220141
                                       (Original 141)
 7
      STATE OF NEW MEXICO,
      and STATE OF COLORADO,
 8
              Defendants.
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10
     THE STATE OF TEXAS :
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     COUNTY
             OF
                 HARRIS:
12
         I, HEATHER L. GARZA, a Certified Shorthand
13
     Reporter in and for the State of Texas, do hereby
14
     certify that the facts as stated by me in the caption
15
     hereto are true; that the above and foregoing answers
16
     of the witness, PEGGY BARROLL, to the interrogatories
17
     as indicated were made before me by the said witness
18
     after being first duly sworn to testify the truth, and
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     same were reduced to typewriting under my direction;
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     that the above and foregoing deposition as set forth
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     in typewriting is a full, true, and correct transcript
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     of the proceedings had at the time of taking of said
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     deposition.
24
              I further certify that I am not, in any
25
     capacity, a regular employee of the party in whose
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1 behalf this deposition is taken, nor in the regular 2 employ of this attorney; and I certify that I am not 3 interested in the cause, nor of kin or counsel to 4 either of the parties. 5 6 That the amount of time used by each party at 7 the deposition is as follows: 8 MR. DUBOIS - 01:16:41 MR. WECHSLER - 00:00:00 9 MS. KLAHN - 00:45:07 MR. HARTMAN - 00:00:00 10 MR. HICKS - 00:11:48 MS. BARNCASTLE - 00:00:00 11 12 GIVEN UNDER MY HAND AND SEAL OF OFFICE, 13 this, the 31st day of October, 2020. 14 15 HEATHER L. GARZA, CSR, RPR, CRR 16 Certification No.: 8262 Expiration Date: 04-30-22 17 18 Worldwide Court Reporters, Inc. Firm Registration No. 223 19 3000 Weslayan, Suite 235 Houston, TX 77027 20 800-745-1101 21 22 23 24 25

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(BY MS. KLAHN)

Where did I go wrong?

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I did not say that there was some impairment. I said, instead, that the quantitative results coming

out of the model would then be used in an impairment calculation determination.

Q. A few minutes ago, you told me that you don't -- that New Mexico doesn't believe there's a one-to-one relationship between depletions and impairment and then you went onto tell me that the relationship is very complex and referred to your modeling. Is it -- is it your position as the State of New Mexico that any of your modeling provides a

> Object to form. MR. WECHSLER:

- We believe that our modeling is the best quantitative calculation of the effects of pumping in Texas and in New Mexico on the Rio Grande Project and thereby on -- on Compact -- on the Compact equities or deliveries or performance.
- That didn't answer the 0. (BY MS. KLAHN) question.

basis for finding impairment to Texas?

- I think that our model does form the best Α. basis for any findings related to impairment.
- Q. And based on your earlier answer, it's the State of New Mexico's position that there's some

Page.line	Change From	Change to	Reason
13.10	Hotstef	Hohstadt	Transcript error
14.3-4	"which have been adopted and were succeeded in the constitution and in the New Mexico Supreme Court."	"which have been adopted and were upheld by the New Mexico Supreme Court."	Transcript error/ I misspoke
15.19-20	"New Mexico has the responsibility no to interfere with at or not to – or to ensure that that can occur to work in –"	"New Mexico has the responsibility to ensure its legal and regulatory framework allows Reclamation to deliver Project and Compact waters"	Clarification
15.24- 16.1	"To work in concert with Reclamation when it comes to whatever is necessary surface water distribution of the project."	"To work in concert with Reclamation as necessary to assist in the delivery of surface water by the project."	Clarification
18.1-2	"it is, in fact, usable water or project supply."	"it is, in fact, project water, or project supply."	Clarification
24.9		Add to end: "Furthermore, the normal operations of the project, as understood by New Mexico, ensure that project users are delivered what they order. Reclamation adjusts Project releases to ensure the water that has been ordered is in fact delivered, regardless of contemporaneous gains or losses to the stream system."	My answer was incomplete
32.17-24	"A. Water users are — water users in New Mexico cannot divert water that they're not entitled to and so that water users who do not have legal authority cannot divert surface	"A. Water users in New Mexico cannot divert water that they are not entitled to. Water users who do not have legal authority cannot divert surface water away from the Rio Grande project. If it is alleged that groundwater use in New Mexico is impairing	Incomplete answer, transcript error
	water away from the Rio Grande project if groundwater use is impacting the Rio Grande project, then it would be necessary to, I believe, New Mexico would have tosorry. Groundwater use depleting the project were alleged, it would have to be investigated and demonstrated. Groundwater depletions negatively impacting the project demonstrated the New Mexico remedied the priority administration, but this has not occurred."	the project, then New Mexico would investigate it, and if necessary, remedy it."	

37.17-18	"And I say all water rights would be curtailed"	"When I say water rights would be curtailed"	Transcript error
39.7	"No."	"Some model runs that have be made in current studies can address this issue."	Incomplete answer
39.23		Add to end: "However, stream depletions calculated by a groundwater model alone cannot determine the actual change in the flows in the Rio Grande because the flow of the Rio Grande to Texas is controlled by Reclamation's operations of the Rio Grande project, which changes response to changes in gains and losses to the stream system."	Incomplete answer
46.15		Add "In part it would depend on the nature of the call. If it were a call based on instantaneous under-delivery of water to Texas, such that Texas was not receiving its Compact apportionment, New Mexico would evaluate the evidence, and rapidly work to resolve the under-delivery by whatever means necessary, ideally in cooperation with Reclamation. If it were a call based on deficits to Project performance or Project efficiency caused by New Mexico, then a more comprehensive evaluation would probably be necessary, but much of the work needed for such an evaluation has taken place as part of past and present hydrologic studies by New Mexico.	Incomplete answer
46.20	"That's right. The state engineer Q. And how long would go ahead. I'm sorry. A. The state engineer would make a determination as to what amount of curtailment was necessary, what volume of water, say, was necessary to address the call and probably involving use of groundwater models to take into account any delays as to when the water the water associated with curtailing groundwater rights would show up back in the river and would come up with he would be tasked with determining the administration date and water rights junior to that date would be curtailed."	"That's right. In the case of a call to address an immediate shortfall in delivery to Texas, New Mexico would take whatever steps were necessary to address that shortfall, which might involve other measures than curtailment of groundwater use, because of the delays inherent in groundwater impacts on surface water flows. In the case of a call based on impacts to Project performance or efficiency caused by New Mexico, the state engineer would made a determination as to what amount of curtailment of water use is necessary based on water rights data, and probably model results as well. Based on this analysis the state engineer would determine an administration date, and water rights junior to that date would be curtailed."	Unclear and incomplete answer.

Barroll 30B6 Deposition 10/21/2020 Corrections

47.9	"I don't know." But the tools	"A -air it da -aud - athat - f : i	T., ,
47.3		"Again, it depends on the type of priority	Unclear and
	we've developed as part of	call. In that case of a call made to alleviate	incomplete
	settlement talks and as part of	an immediate shortfall of water to Texas, so	answer.
	our litigation have definitely	that Texas is not receiving its Compact	
	made it within striking	apportionment, New Mexico would act in a	
	distance that we should be	matter of days, to address this shortfall. The	
	able to perform such an	actions taken by New Mexico to address	
	analysis expeditiously."	such a shortfall may or may not include	
		curtailment of groundwater use, due to the	
		inherent delayed impacts of groundwater	
		pumping on surface water. For a call made	
		by Reclamation to address deficits in project	
		performance or efficiency caused by New	
		Mexico, the more comprehensive analysis	
		required would probably take a longer	
		amount of time, but given the amount of	
		work New Mexico has already done in this	
		area, it should be achieved relatively	
		expeditiously."	
61.5-6	"and it's also because of the	"The current litigation is related to the same	I misspoke: my
	current litigation and a lot of	issues: dropping groundwater conditions in	language was
	different causes that are all	the Mesilla basin."	unclear.
	related to each other."		
80.13-14	"To provide you information	"The purpose of my testimony is to provide	Transcript error
	about New Mexico's policies	you information about New Mexico's	
	and the information required	policies and the information required under	
	under Section C."	Section C."	
	1		

Signature:	Persy	Barrel	11/21/2020	
•	11/1/			

IN THE SUPREME COURT OF THE UNITED STATES BEFORE THE OFFICE OF THE SPECIAL MASTER HON. MICHAEL J. MELLOY

STATE OF TEXAS,

Plaintiff,

S

VS.

S ORIGINAL ACTION
S CASE NO.: 220141
STATE OF NEW MEXICO,
and STATE OF COLORADO,
S

S

Defendants. §

REMOTE VIDEOCONFERENCED DEPOSITION OF

JOHN D'ANTONIO, P.E.

AUGUST 14, 2020

1 2 REMOTE VIDEOCONFERENCED DEPOSITION OF JOHN 3 D'ANTONIO, P.E., produced as a witness at the instance of the United States Department of Justice, 4 5 and remotely duly sworn by agreement of all counsel, 6 was taken in the above-styled and numbered cause on 7 August 14, 2020, from 9:03 a.m. to: 3:06 p.m. before 8 Karen L. D. Schoeve, RDR, CRR, reported remotely by 9 computerized machine shorthand, pursuant to Section 10 5.4 of Appendix C of the September 6, 2018 Case 11 Management Plan, as amended (CMP) and the provisions stated on the record or attached hereto; that the 12 13 deposition shall be read and signed. 14 15 This deposition is being conducted remotely 16 regarding the COVID-19 State of Disaster status of 17 the world. 18 19 REPORTER'S NOTE: Please note that due to the 20 quality of the transmission data for a Zoom video-21 conference, overspeaking causes audio distortion 22 in the testimony when preparing a videoconference 23 transcript. 2.4 25

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           Please be advised that an UNCERTIFIED ROUGH
 2
     DRAFT version of this transcript exists. If you are
 3
     in possession of said rough draft, please replace it
     immediately with this CERTIFIED FINAL TRANSCRIPT.
 4
 5
 6
           Quotation marks are used for clarity and do
 7
     not necessarily reflect a direct quote.
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         Peggy Barroll
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         Susan Barela
         Greg Ridgley
 6
         Aryian Singer
         Ian Ferguson
         Fred Cortez
         Michelle Estrada-Lopez
8
9
     ALSO PRESENT:
10
         Christian Barrett, Videographer
11
12
     THE COURT REPORTER:
13
         Karen L. D. Schoeve
         Certified Realtime Reporter
14
         Registered Diplomate Reporter
         Realtime Systems Administrator
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9	Regulations Providing for Active Water Resources Administration of the Waters of the Lower Rio Grande WaterMaster District, dated	
10	06/28/06	
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1 PROCEEDINGS
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- 2 THE VIDEOGRAPHER: The time is
- 3 9:03 a.m., and we are on the record.
- JOHN D'ANTONIO, P.E.,
- 5 having been previously sworn to tell the truth, the
- 6 whole truth, and nothing but the truth, so help him
- 7 God, testified further:
- 8 EXAMINATION
- 9 BY MR. LEININGER:
- 10 Q. Good morning, Mr. D'Antonio. My name's
- 11 Lee Leininger. You may recall at the end of your
- 12 last three days of deposition, I was continuing to
- 13 ask you questions. So you are still under oath.
- 14 You understand that?
- 15 A. I do.
- 16 Q. Okay. And basically, the same rules and
- 17 procedures apply. We'll go for about an hour here,
- 18 take a break, or we can take a break whenever you
- 19 request, you or your attorney.
- 20 Is that okay?
- 21 A. That's fine.
- Q. And just as a last matter, I think at the
- 23 end of the last deposition, there were a number of
- 24 other attorneys representing various parties that
- 25 also wanted to ask you questions, so I'm going to

- 1 application to pecans.
- 2 So let's start there. Is the 4.5, 5.5
- a basin-wide average, or is it only applicable to
- 4 pecans?
- 5 A. Well, it's not a basin-wide average. It's
- 6 what was allowed for the farmers down there to -- a
- 7 time to put water to beneficial use so that we could
- 8 adjudicate their water rights.
- 9 And so I think the basin-wide
- 10 average -- according to metering records -- and I
- 11 haven't checked on this lately, but according to the
- 12 metering records and the fact that 80,000 acres has
- 13 been -- it's gone from 90,000 to 80,000, it's
- 14 probably 70 or 75,000, there's been a reduction in
- 15 acreage also.
- So from my understanding -- and you
- 17 probably have to talk to some of the experts down
- 18 there, but my understanding is we're still very
- 19 close to that 4 acre-foot per-acre average as a
- 20 basin-wide average, even today.
- 21 **Q.** Okay.
- 22 A. So, yeah, those numbers are higher. They
- 23 had an ability to prove up to higher. But, again,
- 24 going back to the basins, the measure, and the limit
- 25 of a water right is what's being put to beneficial

1 use, and those were deemed reasonable numbers with

- 2 respect to the adjudication and this particular
- 3 Settlement Agreement.
- 4 O. So row croppers could prove up to 4.5 and
- 5 5.5 for beneficial use under this agreement?
- 6 A. They could have. They actually had less
- 7 time, I believe. They had to file a notice of
- 8 intent fairly quickly, and I think they had maybe a
- 9 year to show it, whereas the pecan -- and the pecans
- 10 added extra time because of what I stated earlier,
- 11 the young pecans don't use much water; but as the
- 12 full canopy grows, they require additional water
- 13 use, and so that was -- they were given until, I
- 14 believe it was March of 2019, somewhere around
- 15 there, to prove their beneficial use.
- But, yeah, the diversified row
- 17 croppers had an ability also to go. But if they
- 18 were planting their normal crops, they weren't going
- 19 to exceed that. And what was really nice about it
- 20 is we had the metering order in place so that we
- 21 could verify beneficial use with respect to pumping
- 22 records, and in combination with their surface water
- 23 allocations at the time of them proving up what
- 24 their water rights are.
- Q. Okay. So let's go, then, to -- I realize

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1 I wrote down the wrong page number here. Sorry.
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- 2 Perhaps. Let's go to .pdf 65 on your transcript.
- 3 A. (Complied.)
- 4 O. If we go down to line 7. And, again, I'm
- 5 not going to read this into the record, but if you
- 6 would familiarize yourself with this discussion.
- 7 It's the beginning on line 7. And just read to the
- 8 next page, line 9.
- 9 A. (Examined exhibit.) Okay.
- 10 Q. So your discussion here, I think Mr. Jones
- 11 is asking questions regarding conjunctive use and a
- 12 supplemental water right, and I'm trying to
- 13 understand from your answer here what is the
- 14 distinction and the similarities of those two.
- 15 Let -- let's start with the conjunctive use.
- 16 If a farmer uses an FDR of 4.5
- 17 acre-feet from a combination of groundwater and
- 18 surface water, how is that a conjunctive use, and is
- 19 that different from supplemental use of the
- groundwater to meet that conjunctive use?
- Do you understand that question?
- 22 A. I think they're the same, as you have
- 23 phrased that question, conjunctive use or
- 24 supplemental use of the groundwater.
- 25 Q. So you say that a supplemental water right

- 1 here is an alternative supply to fulfill the
- original surface water supply; is that correct?
- 3 A. Well, it depends on the individual farmer,
- 4 too, whether or not they have combined rights, if
- 5 they're on groundwater only, or if they have a
- 6 surface and groundwater right, so --
- 7 Q. Let's use that latter example where the
- 8 farmer has surface and groundwater rights combined
- 9 and wishes to apply 4.5 acre-feet per acre to his
- 10 crops. Are you saying that the supplemental water
- 11 to the groundwater is an alternative supply to
- 12 fulfill the original surface water supply?
- MR. WECHSLER: Object to form.
- 14 A. Well, what I'm saying is, is that it's
- 15 a -- the farmer has the ability to pump up to that
- 16 4.5 acre-feet, and he's got to combined ground and
- 17 surface water right to make up the difference
- 18 between what his right is and what's available on
- 19 surface water.
- 20 Q. (BY MR. LEININGER) Okay. And so do you
- 21 get -- is he getting two water rights here under OSE
- 22 & OSE guidelines and state law? Is he getting a
- 23 right to groundwater pump, which is separate from
- 24 the right to his surface water application?
- 25 A. No. There's only one state law water

1 right here, and that's the groundwater piece. The

- 2 surface water is variable, based on the project
- 3 water that's available in any given year.
- 4 Q. Okay. So one water right to the
- 5 groundwater, and that's -- you label that as a
- 6 supplemental water right?
- 7 A. Well, you can call it supplemental.
- 8 Q. All right. Sorry. I'm wondering what the
- 9 OSE calls it.
- 10 A. We just call it a groundwater -- it's part
- of a combined rights that the farmer has, part of
- 12 its right to the surface water and then the right to
- 13 the groundwater to supplement that right up that 4.5
- 14 acre-feet.
- 15 Q. Okay. And so the groundwater priority
- 16 data that's offered is the same as the surface
- 17 water?
- 18 MR. WECHSLER: Object to form.
- 19 A. Well, in the case of the combined rights,
- 20 I believe so, although I know -- I know the
- 21 discussion that we've had is the groundwater rights
- 22 are typically the date of drilling.
- So I'd have to -- I'd have lean back
- on my District 4 group to look at any specific water
- 25 rights to get the difference between those two in a

- 1 subject to other contracts under the Multiple
- 2 Purposes Act -- am I saying that right? I don't
- 3 know. The MPA, the act that allows for other water
- 4 to be used by, say, the City of Las Cruces or others
- 5 Miscellaneous Purpose Act. That's what it is.
- 6 Q. Are you aware of Miscellaneous Use
- 7 Purpose -- Purpose Use Act contract that Las Cruces
- 8 has with the United States?
- 9 A. No, I'm really not, but I think most of
- 10 the Bureau of Reclamation has that ability to enter
- 11 into both types of contracts.
- 12 Q. And that presumably would be consistent
- 13 with and pursuant to the contract that EBID has with
- 14 the United States for use of water below Elephant
- 15 Butte Reservoir; is that correct?
- 16 A. Yeah, I think that's correct.
- 17 Q. Let me ask quickly a couple of other
- 18 questions that came out of some earlier questioning.
- I had asked you about the -- you're
- 20 the Secretary of the Interstate Stream Commission,
- 21 correct?
- 22 A. That's correct.
- Q. And you're also the State Engineer for the
- 24 State of New Mexico, that's correct, right?
- 25 A. That's correct.

- 1 Q. And I think you said that the Interstate
- 2 Stream Commission will protest if it feels that an
- 3 application might affect an interstate stream. Is
- 4 that a correct statement?
- 5 A. Well, protest what? Protest an
- 6 application?
- 7 Q. If it feels it will affect an interstate
- 8 stream.
- 9 A. Mr. Somach, what I'm asking is you said
- 10 that the Interstate Stream Commission will protest,
- and I'm asking what will they protest?
- 12 Q. An application.
- 13 A. An application, okay. I just want to make
- 14 sure you're -- yeah, they have the ability to lodge
- 15 a protest, based on effects -- any detrimental
- 16 effects that could happen to a -- regarding the
- 17 Compact.
- 18 Q. Okay. Now, let's assume for a moment that
- 19 an application's been granted. Does the Interstate
- 20 Stream Commission monitor an interstate stream to
- 21 ensure that ongoing operations on that stream do not
- 22 adversely effect New Mexico's ability to meet its
- 23 obligations to a downstream state?
- A. Well, the State Engineer's office and
- 25 staff is the one that monitors the permits. They're

```
1 the ones that issue the permits. But they're --
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- 2 there's a presence down in the Lower
- 3 Rio Grande and certainly we would share any
- 4 information -- when I say "we," the State Engineer's
- 5 office would share information with the ISC if we
- 6 saw that there was a permit that was in
- 7 noncompliance.
- 8 Q. And my question really focuses on -- and
- 9 perhaps I should state it more specifically. Does
- 10 the office of State Engineer have any kind of
- 11 program or regulatory activity that's focused
- directly on insuring that New Mexico complies with
- 13 the 1938 Rio Grande Compact and deliveries to Texas?
- MR. WECHSLER: Object to form.
- A. So I think the answer to that question
- would be if we -- we haven't noticed anything that
- adversely affects the deliveries to the State of
- 18 Texas. In all those years, Texas never filed a
- 19 complaint with me as Compact Commissioner or as
- State Engineer, for that matter.
- They may have recently filed some
- protests on some applications that had been filed.
- But historically, I've never heard -- in 11-1/2
- years as a Compact Commissioner that New Mexico was
- 25 underdelivering to the State of Texas.

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So I think for there to be a concern,
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- 2 number one, if the Compact -- there was a concern
- 3 that Compact was not being adhered to, I think we
- 4 would have heard, that there should have been
- 5 constructive notice provided to me and inquiries
- made for us to start looking at it, because
- 7 there's -- and that's kind of my answer.
- 8 You know, I haven't -- like I said, if
- 9 there's any noncompliance with the permits, we find
- 10 out usually because there's metering requirements
- and reporting requirements and things of that
- 12 nature. But totally unaware from the standpoint of
- 13 being informed by Texas all those years that somehow
- 14 we were underdelivering water to the State of Texas.
- Q. (BY MR. SOMACH) Do I understand you to be
- saying that absent Texas providing notice to the
- 17 State of New Mexico, there's no other mechanism that
- 18 the State of New Mexico has to determine whether or
- 19 not activities in New Mexico may be affecting the
- amount of water that Texas gets, pursuant to the Rio
- Grande Compact?
- A. No, that's not the -- that's not the
- only -- the only mechanism. But, again, when
- there's a full supply that's being delivered to the
- 25 State of Texas, certainly from 1980 and 2002, and

```
1 then we had a pretty severe drought that came in in
```

- 2003, in which there were maybe two years there that
- 3 Texas did not receive a full delivery.
- It's hard to say -- and there
- 5 certainly wasn't a concern that New Mexico was
- 6 underdelivering to the State of Texas in any form or
- fashion. And we've got a number of tools in place
- 8 that -- since 1980, conjunctively managing water
- 9 requiring offsets to any surface water permits. You
- 10 know, we've got guidelines in place on how the
- 11 District governor administers applications and the
- requirements and how to condition them.
- We put metering requirements in place
- and metering orders. We came in and -- all those
- 15 years -- also the Interstate Stream Commission would
- monitor applications. We sort of have the checks
- and balances there; if there were any applications
- that were filed with the Interstate Stream
- 19 Commission would have been concerned with, they
- would have filed -- they're not shy about filing a
- 21 protest and they've done it in a number of basins.
- And so when you look at everything
- that we've done in our intent to put, you know,
- 24 district-specific regulations together, I know those
- questions have been asked and some litigation has

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1 stopped us pursuing that. But all along the way,
```

- for the last 40 years, New Mexico has increasingly
- 3 put in administrative checks on impairment issues.
- We test whether -- again, if there's
- an impairment to an issue, and certainly, you know,
- as we look at the water rights that are associated
- 7 with a project, they have some senior surface water
- 8 rights. Those are protected. So there's a lot of
- 9 protections in there.
- And I think I might be straying afar
- from your question, but I think the point is you
- 12 asked if there was any other mechanism the State
- of New Mexico puts in place that affects the amount
- of water that Texas gets. We're protecting
- New Mexico -- other New Mexico water users, which,
- 16 by association also protects that water that's going
- 17 to Texas.
- MR. SOMACH: I'm done. I have no
- other questions that I need to ask. I don't know if
- anybody else does, but I'm all done.
- Thank you. Mr. D'Antonio.
- THE WITNESS: Thank you.
- MR. WECHSLER: Any other questions?
- Chad, do you have any questions?
- MR. WALLACE: Perhaps I shouldn't, but

```
1 I just want to clarify one thing, Mr. D'Antonio.
```

- 2 EXAMINATION
- 3 BY MR. WALLACE:
- 4 Q. Several days ago, in one of your other
- 5 iterations of the deposition, you had mentioned
- 6 something about Colorado's obligations into the
- 7 Compact.
- 8 A. Okay.
- 9 Q. And I just wanted to clarify, because I
- 10 was confused as to the answer.
- 11 What is your understanding of where
- 12 Colorado makes Compact deliveries under Article III
- 13 of the Compact?
- 14 A. Well, it's -- it's the state line, as far
- 15 as I'm concerned. They make delivers at the state
- 16 line.
- 17 Q. And is that measured by the Lobatos gage?
- 18 A. Yes.
- 19 Q. And as far as Colorado's annual Compact
- 20 credit, are those measured, again, by the volume of
- 21 water the Colorado delivers as measured at the
- 22 Lobatos gage?
- 23 A. My understanding is yes.
- 24 MR. WALLACE: That's all I have.
- 25 Thank you.

```
1
                    THE WITNESS: Okay.
 2
                   MR. WECHSLER: Anything further?
 3
                   (No response.)
 4
                   MR. WECHSLER: Great. Well, thank you
 5
     very much and have a good weekend.
 6
                    THE VIDEOGRAPHER: The time is
 7
     3:06 p.m., and we are off the record.
 8
 9
                    (Remote deposition concluded at
10
                      3:06 p.m., August 14, 2020.)
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CHANGES AND SIGNATURE NAME: JOHN D'ANTONIO, P.E. AUGUST 14, 2020 NE CHANGE change "basis" to "beneficial use" change "basis to" to "basis, the" change "FOPS" to "crops" change "breaker" to "FDR"	REASON Correction Correction Correction
AUGUST 14, 2020 NE CHANGE change "basis" to "beneficial use" change "basis to" to "basis, the" change "FOPS" to "crops"	Correction Correction
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change "basis to" to "basis, the" change "FOPS" to "crops"	Correction
change "FOPS" to "crops"	
	Correction
change "breaker" to "FDR"	
	Correction
change "there tells" to "there's"	Correction
change "travel" to "Tribal"	Correction
change "short-sharing" to "shortage sharing"	Correction
change "Galenas" to "Gallinas"	Correction
change "Nimbus" to "Mimbres"	Correction
change " at the" to "active"	Correction
change "it" to "I"	Correction
change "combat" to "compact"	Correction
change "AWR" to "AWRM"	Correction
delete "and the"	Correction
change "based on" to "place"	Correction
delete "monthly"	Correction
change "general" to "engineer"	Correction
change 'legal" to "an illegal"	Correction
change "Raul" to "Rolf"	Correction
	Correction"
change "Rio" to "River"	Correction
	change "general" to "engineer" change 'legal" to "an illegal" change "Raul" to "Rolf"

Page/Line	Change	Reason
107/18	Change "form" to "forum"	Correction
107/ 23 & 24	Change "I wouldn't" to "it would"	Correction
123/4	Change "forcing" to "enforcing"	Correction
134/25	Change "floor on" to "for"	Correction
154/25	Change "and" to "to"	Correction
155/11	Change "governor" to "manager"	Correction
155/18	Change "with" to "that"	Correction
156/5	Delete "to an"	Correction

```
1
                 I, JOHN D'ANTONIO, P.E., solemnly swear
 2
     or affirm under the pains and penalties of perjury
 3
     that the foregoing pages contain a true and correct
     transcript of the testimony given by me at the
 4
 5
     time and place stated with the corrections, if any,
     and the reasons therefor noted on the foregoing
 6
 7
     correction pages(s).
 8
 9
                               John R. Dilentony
10
11
12
                         JOHN D'ANTONIO, P.E.
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25
     Job No. 65060
```

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1
          IN THE SUPREME COURT OF THE UNITED STATES
           BEFORE THE OFFICE OF THE SPECIAL MASTER
 2.
                  HON. MICHAEL J. MELLOY
 3
    STATE OF TEXAS,
                                S
                                S
 4
               Plaintiff,
 5
                                § ORIGINAL ACTION
    VS.
                                § CASE NO.: 220141
                                § (ORIGINAL 141)
    STATE OF NEW MEXICO,
    and STATE OF COLORADO,
                                S
                                S
               Defendants.
8
         9
10
                   REPORTER'S CERTIFICATE
11
            REMOTE VIDEOCONFERENCED DEPOSITION OF
12
                   JOHN D'ANTONIO, P.E.
13
                      AUGUST 14, 2020
         **********
14
15
          I, Karen L. D. Schoeve, Registered Diplomate
16
    Reporter, Certified Realtime Reporter, and Realtime
    Systems Administrator, residing in the State of
17
18
    Texas, do hereby certify that the foregoing
19
    proceedings were reported by me and that the
20
    foregoing transcript constitutes a full, true,
21
    and correct transcription of my stenographic
22
    notes, to the best of my ability and hereby
23
    certify to the following:
24
          That the witness, JOHN D'ANTONIO, P.E., was
25
    duly remotely sworn by the officer and that the
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1
     transcript of the oral deposition is a true record
    of the testimony given by the witness;
2
 3
           I further certify that I am neither counsel
 4
     for, related to, nor employed by any of the parties
5
     in the action in which this proceeding was taken,
    and further that I am not financially or otherwise
6
     interested in the outcome of the action.
7
           That the amount of time used by each party at
8
9
     the deposition is as follows:
10
           R. Lee Leininger
                              - 02:41
           Stuart L. Somach
                              - 00:28
11
           Chad Wallace
                              - 00:01
           Jeffrey Wechsler
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12
           Renae Hicks
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           James Brockmann
                             - 00:00
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           John W. Utton
                              - 00:00
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15
    Subscribed and sworn to on this the 29th day of
16
    August, 2020.
17
18
19
20
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IN	THE	SUPRI	EME	COUI	RT (ΟF	THE	UNITEI) STA	TES
BE	EFORE	THE	OFI	FICE	OF	ΤH	E SI	PECIAL	MAST	ER
		HOI	N. 1	MICHA	AEL	J.	ME]	LLOY		

STATE OF TEXAS)	
)	
Plaintiff,)	
)	Original Action Case
VS.)	No. 220141
)	(Original 141)
STATE OF NEW MEXICO,)	
and STATE OF COLORADO,)	
)	
Defendants.)	

REMOTE ORAL AND VIDEOTAPED DEPOSITION OF
CHERYL THACKER
SEPTEMBER 18, 2020

REMOTE ORAL AND VIDEOTAPED DEPOSITION of CHERYL THACKER, produced as a witness at the instance of the United States, and duly sworn, was taken in the above-styled and numbered cause on September 18, 2020, from 1:33 p.m. to 4:42 p.m., before Heather L. Garza, CSR, RPR, in and for the State of Texas, recorded by machine shorthand, remotely at the offices of HEATHER L. GARZA, CSR, RPR, The Woodlands, Texas, pursuant to the Federal Rules of Civil Procedure and the provisions stated on the record or attached hereto; that the deposition shall be read and signed.

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          Al Blair
          Greg Ridgley
17
          John D'Antonio
          Robin Cypher
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          Gary Esslinger
          Erek Fuchs
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          Estevan Lopez
          Daniel Ortiz
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          Arianne Singer
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1 THE VIDEOGRAPHER: The time is 1:33 p.m. 2 We're on the record. 3 CHERYL THACKER, 4 having been first duly sworn, testified as follows: 5 EXAMINATION 6 BY MR. LEININGER: 7 0. Will you please state your full name for the 8 record? 9 Α. It's Cheryl S. Thacker. 10 Good afternoon. My name is Lee Leininger. 0. 11 I'm an attorney with the U.S. Department of Justice. 12 I'm going to be starting this deposition today. 13 think I'll be followed by Ms. Klahn and then perhaps 14 Ms. O'Brien, and there may be one or two others. 15 Okay? 16 Α. Okay. 17 Ο. You've had your -- you've had your deposition 18 taken many times before; is that correct? 19 Yes, sir. Α. 20 And so you understand the ground rules. 21 will just briefly go over those. Were you in 22 attendance this morning when Mr. Dubois was beginning 2.3 this deposition with Mr. Lopez? 24 Α. Yes. 25 0. All right. So he ran over some ground rules.

groundwater or is there a specific thing you're asking.

- Q. Well, this term was used by -- you know who Mr. Serrano is?
 - A. Yes.
 - Q. And Mr. Dorman?
- 7 A. Yes.

- Q. And in their depositions, they used the term over diversions. Did you, by chance, review their deposition testimony or did you -- did you participate? Were you present during their deposition?
- A. No, I wasn't.
 - Q. Did you review the transcript?
- 15 A. No.
 - Q. Okay. So I will -- I will just state for these purposes that Mr. Serrano, in particular, referenced over diversions of water rights by irrigation users, and that is my question. It could be over diversion by surface water or could be over diversion of groundwater, but let's take these one at a time. Does the OSE monitor over diversion of a surface water by irrigation user in Elephant Butte Irrigation District?
 - A. We do not monitor the over diversion of

specific farmers of surface water.

- Q. How would you define over diversion?
- A. What we do here in the District 4 office is we monitor how much water is pumped from each well, and specific to a specific water right, and an over diversion would be that amount of water diverted that goes beyond their water right.
- Q. Okay. Looking at your answer here, you talk about monitoring of how much water is pumped from each well. Do you monitor how much water -- how much surface water is diverted by each water right holder?
- A. What we do is in our WATERS database, we include the allotments set by the surface water allotments set by EBID, and we just assume that every water user takes that full allotment of surface water, and then we make sure that the groundwater amount of water is constrained within the Stream System 101 settlement agreement.
- Q. Okay. So the OSE does no administration of the amount of surface water that is beneficially used by each of the EBID farmers; is that correct?
- A. We just make the assumption that every EBID farmer takes their full allotment.
- Q. And the OSE does no monitoring of that or -- well, let's just start there. The OSE does no

monitoring of each farmer diversion of surface water?

- A. Not in this office, we don't.
- Q. With regard to groundwater, does the OSE monitor how much each farmer is diverting to the groundwater?
 - A. Absolutely.

- Q. Okay. How do you go about doing that?
- A. Well, we require metering all wells for irrigation purposes, as well as commercial and non-domestic purposes, and so for irrigation purposes in particular, we require quarterly meter readings and those meter readings are entered into our WATERS database, and that allows us to account for the amount of water each farmer is using.
- Q. Okay. In your previous answer, you said with regard to ensuring there's not an over diversion, you make -- I'm looking at your answer here on Line 26:17.

 "We make sure the groundwater amount of water is constrained within the Stream System 101 settlement agreement." So how does -- how do the OSE then administer to constrain groundwater pumping within the Stream System Issue 101 settlement agreement?
- A. Well, I'll go ahead and give you a scenario. In our WATERS database, we input for every farmer the amount of the allotment EBID has designated for that

year. So, for instance, if the amount of water the allotments from EBID surface water is 2 acre-feet per acre per annum, we input that into our WATERS database, and then we look at the Stream System 101 settlement agreement, and we see for most farmers, they have a total FDR farm delivery requirement of 4.5 acre-feet per acre per annum. So what we'll do is straight away, we assume that the farmer will use all the full 2 acre-feet per acre per annum, and what that does, we subtract that from the 4.5 farm delivery requirement, and that gives us a number stating that they have 2.5 acre-feet per acre per annum that can be diverted from their well or wells.

- Q. If they exceed -- under your scenario, if they exceed the 2.5 acre-feet per annum, is that an over diversion?
 - A. It is.

- Q. And how do you enforce against an over diversion?
- A. Our water master, who is Ryan Serrano and his staff, will notify the farmer that is over diverting, and they will often red tag, literally put a red tag on the well, and there's also written correspondence to those farmers and they investigate and work with the farmer to rectify that over diversion.

Q. Is your well metering, is that realtime?

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- A. It is not. It's -- we require the farmers to submit their meter readings January, April, July, and October by the 10th of those months.
- Q. So let's say in July, you get a meter reading, and it appears that under this scenario which the farmer was entitled to 2.5 acre-feet per annum, pumping, and it's been exceeded, what -- what actions do you take when you get that information?
- Α. Well, the water master again will contact that farmer and investigate the situation, for instance, talk to the farmer about, well, is -- is your meter working correctly, were the meter readings written down and submitted correctly. Often, that's what happens. The farmer will inadvertently report the meter readings incorrectly or there may be a metering -- there's -- a meter can be tenths or hundredths. They may have a decimal place off. So they'll -- the water master is real diligent about working with the farmers to make sure that those meter readings were entered correctly and submitted correctly. And we'll also go out -- they will, not me, but the water masters will go out and inspect the wells and work with the farmer to make sure that that well is working correctly.

- 1 Okay. Let's --Q. 2 Α. And --3 I'm sorry. Go ahead. I didn't mean to 0. 4 interrupt. 5 No, that's okay. Go ahead. Α. Let -- let's assume that the meter is reading 6 0. 7 correctly, that the well is working correctly, and the 2.5, which is what should be the limit to groundwater 8 9 pumping has been exceeded in July and you've got the 10 meter reading, it's accurate, the water use is being 11 exceeded, what does the OSE do to rectify this over 12 diversion at that time?
 - So a water master will work with the farmer, Α. and he will come up with a replacement plan so that that farmer will pay back that water. Typically it occurs in the following irrigation season.
 - So is the -- is the farmer allowed to 0. continue to pump?
 - Α. No.

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- In irrigation season? Ο.
- Α. I don't believe so, no.
- And how do you prevent farmer from pumping 0. beyond that 2.5 after notification that they've exceeded their amount they're entitled to?
 - Α. Well, the water masters go out and inform the

1 farmer that he can no longer pump that water from that 2 well. 3 0. And --4 Α. And then if there's -- if they refused to 5 follow those instructions, it'll -- it can go to a 6 compliance order and eventually to the administrative 7 litigation unit for full compliance. 8 Do you take any physical action at the time 9 you're aware of the over diversion to prevent 10 additional pumping that well had? 11 Α. What do you mean by physical action? 12 Do you lock it down so that --Q. 13 I am not aware of locking that down. Α. I would 14 have to ask -- or you would have to ask Ryan Serrano.

0. How many compliance orders do you typically issue every year?

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- Α. I think there was between 10 and 20 a year. Not very many.
- That is the number of over diversions that 0. you've discovered?
- I believe that's the number of over diversions where the farmer hasn't come into our office and worked with our water masters to come up with a replacement water plan, and I think they -those are the folks that just refuse to cooperate.

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25 0. Okay. And as long as they are within that

A.

Yes.

So if I understand you correctly, then for Q. farmers that agree to cooperate, there -- there is no compliance order issued and they're expected to account for their over diversion in their water use the following year?

- Α. Well, this would depend on the arrangements they have with the water master and his group, but as far as I know, that's the way they handle it, and it needs to be in the following irrigation season.
- So essentially in the -- these enforcement 0. actions, the OSE checks the meter readings at the end of the year, and if the total meter diversion exceeded the farmers' water right for groundwater pumping purposes, that's when you'd take some action the following year to correct for that amount that was over diverted; is that correct?
 - Α. That's correct.
- As long as the groundwater pumper was within this permitted amount, and I think you've defined this permitted amount as 4.5 acre-foot for most irrigation uses, subtracting off their surface water allocation, then they had a permitted amount of water to pump from the ground for that year; is that correct?

permitted amount, there's no over diversion?

A. That's correct.

- Q. So New Mexico only administers to the permitted amount in an irrigator's permit?
- A. Well, it's not just water that's -- or excuse me a water right that's certainly permitted. We require metering on all irrigation -- all farmed, all meters -- water meters that irrigate and so this could be whether it's adjudicated, a water right might be adjudicated but not permitted specifically. It might be a water right that is declared but not specifically permitted, so I don't want to stop at saying it's just permitted water right.
- Q. So New Mexico administers to water rights that are declared; is that correct?
- A. Yes. If that's the only information we have on file of the water right unless it's been some other information, for instance, it's adjudicated, then yes. That's the best information we have.
- Q. Are these declared rights un-permitted rights that were in existence prior to when the basin was declared?
- A. Yes. They have to be water rights that were established prior to the closing of the basin.
 - O. That was 1980?

A. Correct.

2 O. So for t

- Q. So for these declared rights that New Mexico administers to, this is based upon what -- what proof of establishment beneficial use. How does OSE verify a declaration?
- A. Well, in the lower Rio Grande, we have the hydrographic survey, and so that was completed as part of the adjudication, and so that's essentially a field check that was done. So it's -- we can verify that's another way to look at the declaration and give some context to it and shore up the declaration essentially.
- Q. Okay. So for purposes of over diversion, you guys go through the same processes you do with permitted wells; you determine from the metering data whether or not they are exceeding their declaration?
 - A. That's correct.
- Q. And then it's a similar process of enforcement, at the end of the year, you look to see how much water was pumped?
 - A. Yes.
- Q. And then you may take action to limit the amount of water pumping in successive years?
- A. If it's -- yes.
 - Q. How else do you settle these issues of over

1	Q.	Is that information you had understood coming
2	into thi	s deposition?
3	А.	I'm sorry. What information?
4	Q.	That you're speaking for New Mexico today
5	when you	
6	Α.	Oh, yes. I see. Yes.
7	Q.	You did understand that coming in here today?
8	Α.	I do.
9	Q.	So the the answers to your questions bind
10	the Stat	e of New Mexico in the context of this
11	litigati	on. Does that make sense?
12	Α.	That's the way I understand it.
13	Q.	Okay. Very good. Where are you right now?
14	Α.	I'm in my office in Las Cruces, New Mexico.
15	Q.	Is there anyone in there with you?
16	Α.	No.
17	Q.	Do you have your phone nearby?
18	А.	It's over in my desk.
19	Q.	Okay. But you're not anywhere where you
20	could co	nsult with anybody by text message or
21	somethin	g like that?
22	Α.	No, ma'am.
23	Q.	Okay. In the course of the discussion you
24	had toda	y with Mr. Leininger, he asked you some
25	question	s about the way that New Mexico administers

groundwater rights, and in the course of that discussion, you said something along the lines of this, you assume that EBID farmers are using their full allotment and then you evaluate their groundwater use based on the assumption that they're using their full allotment. Does that -- does that sound like testimony that you gave? I'm not -- I don't have it written down exactly.

A. Yes. That's right.

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- Q. Okay. So when you say you assume that EBID farmers are using their full allotment in the context of that statement, are you assuming that EBID farmers have 3 acre-feet per acre available to them every year?
- A. Oh, no. I'm sorry. I meant the allotment that they announced per irrigation season, for instance, 2 acre-feet, you know, they announced that. That's what I was referring to.
- Q. Okay. So -- and this evaluation that you're doing would happen at the end of the irrigation season?
- A. Well, we include that at the beginning of the irrigation season when we get that information from EBID. So -- but the final accounting and final wrap up occurs at the end of the year, yeah.

1 So if EBID changes their allocation over the 2 course of a season, your final tally of groundwater 3 use would take that into account? 4 Α. We would, yes. 5 Now, based on the extended discussion that 6 Mr. Wechsler had with Mr. Leininger at the beginning 7 of the deposition, is it fair to say that you are not 8 aware of specific activities New Mexico has done to 9 enforce compliance with the Rio Grande Compact? 10 That's absolutely right. Α. 11 Q. During your discussion with Mr. Leininger, 12 you referred to tools in the toolbox a number of times 13 when talking about the AWRM. Do you recall that? 14 Α. I do. 15 Ο. Could you list the tools in your toolbox for 16 the AWRM? 17 Α. The metering order requiring all 18 farmers and non-domestic users to meter their wells. 19 We have the designation of the water master districts, 20 the appointments of the water master. We have the 21 water master reports that he does every year, and --22 and I think, you know, just the AWRM state regulations 2.3 or -- yeah, regulations. 24 Q. So the -- the AWRM -- let me strike that.

25

So regulations have been adopted on a

1 statewide basis to implement active water resource 2 management in New Mexico; is that correct? 3 Yes, it is. 4 0. How often do you find yourself consulting the 5 AWRM regulations in your day-to-day? 6 I know they're there, but I don't use them on 7 my day-to-day work. 8 So it's a tool in the toolbox, but you don't 9 use it? 10 I wouldn't say we never use it, but it's not Α. 11 something we use on a day-to-day administrative -- for 12 administrative use. 13 How many times in a year would you say you 14 turn to the AWRM regulations? 15 Maybe twice a year. 16 Q. What would be an example of application of 17 the AWRM regulations? Well, I think it's just the basis where we 18 Α. 19 can administer -- gives us the authority to administer 20 under AWRM and use those tools that I mentioned 21 earlier. 22 0. Maybe my question wasn't clear. I -- I was 2.3 -- I was thinking that the AWRM regulations themselves 24 might have created a basis for your office to 25 administer water rights; is that incorrect?

1 Well, we don't have district-specific AWRM 2 regulations, and the tools I really use for 3 administration go from the -- you know, the 4 constitution, the statutes, and our regulations, non, 5 you know, groundwater and surface water regulations 6 and Stream System 101. So those were the ones --7 that's what I use on a day-to-day basis for 8 administration.

Q. Okay. So give me an example of how you use the constitution on a day-to-day basis.

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- A. Well, that's -- that's just the over arching reason we're here essentially. It's just we have to keep that in mind. We have the authority to administer water rights and so it's not something I just look at every day and say, oh, okay, constitution, but the point is the stated engineer has the authority to protect the water of the -- the state and specifically in the lower Rio Grande.
- Q. I understand the state engineer has authority. His office is in Santa Fe. I'm curious how often Mr. D'Antonio himself is involved in administrative decisions about water rights in the lower Rio Grande.
- A. Well, he's designated me as one of the administrators down here, and with that in mind, he's

given me the responsibility to administer water rights and apparently put his faith in me to do that and so that's my job as his agent to administer water rights.

- Q. So in your answer of one question ago, you said but the point is the state engineer has the authority to protect water of the state and specifically in the lower Rio Grande. What your -- your testimony would be perhaps that you have the authority because it was delegated to you by the state engineer to protect water of the state and specifically the lower Rio Grande; is that right?

 MR. WECHSLER: Object to form.
 - A. That's right.

- Q. (BY MS. KLAHN) Do you understand your duties to extend to protecting water in the lower Rio Grande to ensure waters delivered to Texas under the Compact?
- A. I wouldn't characterize it that way. I would say specifically my authority is to do evaluations when an application is filed for impairment, and to ensure no new depletions occurred on the river. So that's -- that's the authority I've been given.
 - Q. How does that answer my question?
- 23 A. [I think it does.] [I -- I don't know what you mean.]
 - Q. Well, I asked if your duties extended to

1 protecting water in the lower Rio Grande to ensure 2 that water is delivered to Texas under the Compact, 3 and you said -- your answer to me was you do an 4 evaluation when an application is filed for impairment 5 and to ensure no new depletions occurred on the river. 6 And I just want you to connect the dots for me. How 7 is that ensuring delivery of Texas' water under the 8 Compact?

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- A. Well, since I'm not specifically involved with the Compact, I can't speak to that, but my job and our job in the District 4 is to make sure that anyone who wants to change an element of their water right doesn't cause depletions to surface water flows, so that -- that's the only thing I have the authority to do in my position.
- Q. So if Texas was already not getting all of its water and you were looking at no more impairment based on a water rights application, would you agree that's not going to change whatever the underlying problem is related to Texas getting its water?

MR. WECHSLER: Object to form. Also outside the scope.

- A. I don't really agree with the premise of your question, so can you re-ask it?
 - Q. (BY MS. KLAHN) What don't you agree with?

2.3

A. Well, I can't speak to not going to change whatever the underlying problem is. That's not within my wheelhouse. My job is to make sure that any application that's filed in our office does not cause local depletions to other wells of other ownerships or do depletions to the surface water flows.

- Q. In your discussions with Mr. Leininger, you referred several times to keeping the river whole.

 Can you define for me what it means to keep the river whole?
- A. Sure. Again, when a water right owner comes in and wants to change an element of their water right, for instance, change location of wells for replacement wells or change purpose or place of use, my job is to be sure that no new depletions occurred to the river and so that's what I mean keeping the river whole, no new depletions.
- Q. But what's the starting point for the whole? In other words, would it have been 2005 or whatever whenever you started your job, that's the standard that you're trying to keep the river to or what's the -- what's the temporal piece of keeping the river whole in your view?
- A. Well, what we look at is no new depletions beyond what has occurred historically, and we use our

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tools such as Glover-Balmer software and modeling software to be sure that the impacts to the river don't exceed what has occurred historically.

- Q. But, I mean, I understand the Glover-Balmer's I -- I get that, but you are making that comparison with current existing conditions on the river, right? You're not going back to 1980 to make sure that there's not been any changes since 1980, correct?
- Α. Well, if there's a water right, the -- that began exercised in 1956, for instance, we look at a hundred-year modeling, the effects to the river on that -- on the river due to pumping from 1956, and so that's our modeling, and so what we look at is that if another well -- a replacement well is drilled, we make sure that the depletions to the river due to the replacement well don't exceed what has occurred historically from 1956.
- But when you do that, you aren't in a position to say this is the status quo of the river that we're trying to maintain ; it's not some objective historical condition, it's just comparing what that 1956 water right was doing against what the water right owner wants to do with the replacement well, for example, correct?

tools such as Glover-Balmer software and modeling software to be sure that the impacts to the river don't exceed what has occurred historically.

- Q. But, I mean, I understand the Glover-Balmer's equation. I -- I get that, but you are making that comparison with current existing conditions on the river, right? You're not going back to 1980 to make sure that there's not been any changes since 1980, correct?
- A. Well, if there's a water right, the -- that began exercised in 1956, for instance, we look at a hundred-year modeling, the effects to the river on that -- on the river due to pumping from 1956, and so that's our modeling, and so what we look at is that if another well -- a replacement well is drilled, we make sure that the depletions to the river due to the replacement well don't exceed what has occurred historically from 1956.
- Q. But when you do that, you aren't in a position to say this is the status quo of the river that we're trying to maintain; it's not some objective historical condition, it's just comparing what that 1956 water right was doing against what the water right owner wants to do with the replacement well, for example, correct?

1 That's right, yes. Α. 2 Q. You used the term nuclear option with regard 3 to curtailment. Why is curtailment a nuclear option? 4 Α. I would say priority administration. 5 Curtailment isn't a nuclear option. And I quess the 6 question, too, is what do you mean by curtailment in 7 your eyes. 8 0. Shutting down a water right period. 9 Α. Okay. 10 Lock the well, lock the head gate, don't let 0. 11 them take water. That's curtailment. 12 Α. Okay. 13 How do you define it? 0. 14 I would agree. And when I say nuclear 15 option, I mean priority administrations where we make 16 a call on the river and shut a whole bunch of water 17 rights down. Yes, the state engineer has that authority, but we would prefer to use the active water 18 19 resource management tools so we don't have to do that. 20 So in your view, in your job, active water 21 resource management provides you tools so you can 22 avoid operating under strict priority system? 23 Α. Well, I think it's to encourage shortage

sharing and cooperation with the farmers and just

managing the river so that -- excuse me -- managing

24

groundwater diversions so that the farmers don't 1 2 exceed their water rights as it is on file. 3 0. So what do you mean by shortage sharing? 4 A. I think that's where our same ownership 5 management comes in to where two farmers can 6 essentially put two farms under one ownership 7 management and where one farmer cannot necessarily 8 irrigate their field, and instead, the other farmer 9 used that water on his lands. So that gives us the 10 tools to do that. 11 Q. So in that example, one farmer is not 12 irrigating, and the other farmer is using more water 13 than he's entitled to, correct? 14 A. No, that's not right. 15 0. Well, I don't understand where the shortage 16 comes in then? 17 A. Well, the farmer isn't using more than he's 18 entitled to. It's all within the same water rights as 19 in the two water rights, the mass balance is 20 maintained. 21 Q. Using more -- the farmer that's using 22 additional water is using more water than he would be 23 able to if his neighbor hadn't agreed to loan him his 24 water, correct? 25 A . That's true.

1	Q. And this is the only water district in New
2	Mexico that has an owner management program; isn't
3	that right?
4	A. I'm not sure about other districts. I can't
5	speak to that.
6	Q. When when you were deposed last spring,
7	you told me you didn't have any involvement with the
8	owner management program. Is that still true?
9	A. I don't administer it on a day-to-day basis.
10	I do I do know how it works, but I don't do the
11	paperwork and I'm not actively involved with it.
12	Q. Are you involved with the year-end evaluation
13	of whether anybody exceeded the mass balance as you
14	call it under an owner management program?
15	A. I'm not. Other than I hear Ryan Serrano give
16	a summary and overview, but that's he he
17	administers that.
18	Q. So how was the ownership management program
19	shortage sharing again? I don't really feel like I
20	had an answer to that question.
21	A. Well, I have to back off on that. It may not
22	be shortage sharing.
23	Q. So can you give me an example of what you
24	mean by shortage sharing?
25	A. Not right now, no.

1	Q. So you, as the State of New Mexico, cannot
2	give me an example of shortage sharing? I just want
3	to make sure that's clear on the record. Is that
4	right?
5	A. Let me think about this a bit. I'm sure I
6	can think of something later, but I can't think of
7	anything right at the moment. I apologize.
8	Q. Okay. Were you in your current professional
9	position in 2005?
10	A. Yes.
11	Q. Were you involved in the state engineer's
12	effort to implement lower Rio Grande specific AWRM
13	regulations?
14	A. Yes.
15	MS. KLAHN: Kayla, could you pull up a
16	deposition exhibit for me? It it says well
17	metering requirements on the first page.
18	THE VIDEOGRAPHER: Okay. Give me a
19	moment.
20	Q. (BY MS. KLAHN) While we're waiting for that
21	to come up, Ms. Thacker, did Mr. D'Antonio or anyone
22	else at the Office of the State Engineer ever give you
23	any instructions or guidance about the role of the
24	Compact in your professional duties?
25	A. No.

Q. Would that be true in -- because I believe you had two positions with the Office of the State Engineer; is that right?

- A. Actually, I've had three.
- Q. Have you ever had any instruction or guidance on how the Compact plays into your duties?
 - A. No.

Q. Thank you.

(Exhibit No. 1 was marked.)

- Q. (BY MS. KLAHN) Okay. So the way this works is you should have control of the document that you should be able to see in front of you. Can you see it?
 - A. I can.
- Q. Okay. And this is a document we got from the State of New Mexico somehow or the other in the context of this litigation, and it starts with New Mexico Bates No. 00210791, and it's a collection of documents related to, I believe, the AWRM effort in the lower Rio Grande. The first page is well metering requirements, but I would like you to page down through this to what should be PDF Page 17. And maybe you can flip it so that it's the right way. Perfect. Okay. So the title of this is, "Objectives for Lower Rio Grande District-Specific Regulations for

Implementation of Active Water Resources Management in the Lower Rio Grande Water Master District." I'd ask you to take a look at these objectives, A through M.

A. Okay.

- Q. And I'd like to draw your attention to the first bullet point up there, Bullet Point A, "Protect senior water rights from impairment through administration of both surface and groundwater rights within the Lower Rio Grande Water Master District by priority administration or other methods as provided by the AWRM regulations." Do you see that?
 - A. I do.
- Q. So this is -- this was apparently an objective for implementation of Lower Rio Grande specific AWRM rules. Is this an objective of your office in the absence of Lower Rio Grande specific regulations?

MR. WECHSLER: Object to form.

- Q. (BY MS. KLAHN) You can answer.
- A. Well, I think the state engineer obviously has the authority to administer based on priority administration, but we haven't had to do that since I've been here.
- Q. Remind me what it would take for there to be priority administration in your estimation.

1	WITNESS CORRECTIONS AND SIGNATURE	
2	Please indicate changes on this sheet of paper,	
	giving the change, page number, line number and reason	
3	for the change. Please sign each page of changes.	
4	PAGE/LINE CORRECTION REASON FOR CHANGE	
5	36/24 Wells - meters Wrong word	
6	36/25 Wells - meter wrong word	
7	42/17 is two forms are more - clarific	alien
8	with the two of more farms are managed together	(OF)
9	42/18 pulled - pooled wrong word	
10	44/13 rights - right wrong word	
11	46/8 determine - determination	
12	other than clarification	
13	46/17 when - what I clayification	
14	19/10 there's what - that's how clarification	
15	71/4 non- and	
16	15/11 began - began to be clarification	
17	28/10 in → 73 Wrong word	
18	88/21 holding - closing wrong word	
19	89/16 right and will - right and we will clarification	
20		
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23	- Wyl Stall	
	CHERYL' THACKER	
24		
25		

SIGNATURE OF WITNESS I, CHERYL THACKER, solemnly swear or affirm under the pains and penalties of perjury that the foregoing pages contain a true and correct transcript of the testimony given by me at the time and place stated with the corrections, if any, and the reasons therefor noted on the foregoing correction page(s). CHERYL THACKER Job No. 65671

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              IN THE SUPREME COURT OF THE UNITED STATES
 2
               BEFORE THE OFFICE OF THE SPECIAL MASTER
                       HON. MICHAEL J. MELLOY
 3
 4
      STATE OF TEXAS
 5
              Plaintiff,
                                       Original Action Case
 6
     VS.
                                       No. 220141
                                       (Original 141)
 7
      STATE OF NEW MEXICO,
      and STATE OF COLORADO,
8
              Defendants.
9
10
    THE STATE OF TEXAS :
11
    COUNTY
            OF HARRIS:
12
         I, HEATHER L. GARZA, a Certified Shorthand
1.3
    Reporter in and for the State of Texas, do hereby
14
    certify that the facts as stated by me in the caption
15
    hereto are true; that the above and foregoing answers
16
    of the witness, CHERYL THACKER, to the interrogatories
1.7
    as indicated were made before me by the said witness
18
    after being first remotely duly sworn to testify the
19
    truth, and same were reduced to typewriting under my
20
    direction; that the above and foregoing deposition as
21
    set forth in typewriting is a full, true, and correct
22
    transcript of the proceedings had at the time of
23
    taking of said deposition.
24
              I further certify that I am not, in any
25
    capacity, a regular employee of the party in whose
```

1 behalf this deposition is taken, nor in the regular 2 employ of this attorney; and I certify that I am not 3 interested in the cause, nor of kin or counsel to 4 either of the parties. 5 6 That the amount of time used by each party at 7 the deposition is as follows: 8 MS. KLAHN - 00:39:49 MR. WECHSLER - 00:00:00 9 MR. LEININGER - 01:46:47 MR. WALLACE - 00:00:00 MR. HICKS - 00:17:46 10 MS. BARNCASTLE - 00:02:45 11 12 GIVEN UNDER MY HAND AND SEAL OF OFFICE, on this, the 8th day of October, 2020. 13 14 15 HEATHER L. GARZA, CSR, RPR, Certification No.: 8262 16 Expiration Date: 04-30-22 17 Worldwide Court Reporters, Inc. 18 Firm Registration No. 223 3000 Weslayan, Suite 235 19 Houston, TX 77027 800-745-1101 20 21 22 23 24 25

IN THE SUPREME COURT OF THE UNITED STATES
BEFORE THE OFFICE OF THE SPECIAL MASTER
HON. MICHAEL J. MELLOY

STATE OF TEXAS

Plaintiff,

Original Action Case

VS.

No. 220141

(Original 141)

STATE OF NEW MEXICO,

and STATE OF COLORADO,

Defendants.

Defendants.

REMOTE ORAL AND VIDEOTAPED DEPOSITION OF

JOHN D'ANTONIO

JUNE 24, 2020

VOLUME 1

REMOTE ORAL AND VIDEOTAPED DEPOSITION of JOHN D'ANTONIO, produced as a witness at the instance of the Plaintiff State of Texas, and duly sworn, was taken in the above-styled and numbered cause on June 24, 2020, from 9:03 a.m. to 12:51 p.m., before Heather L. Garza, CSR, RPR, in and for the State of Texas, recorded by machine shorthand, at the offices of HEATHER L. GARZA, CSR, RPR, The Woodlands, Texas, pursuant to the Federal Rules of Civil Procedure and the provisions stated on the record or attached hereto; that the deposition shall be read and signed.

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Arianne Singer
Al Blair
Gary Esslinger
Susan Barela
Ian Ferguson
Michelle Estrada-Lopez
Greg Ridgley
Jeff Clark
Jonathan George
Erek Fuchs
Kyler Rayden
Rolf Schmidt-Petersen
Estevan Lopez

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THE VIDEOGRAPHER: 1 The time is 9:03 a.m. 2 We're on the record. 3 (The witness was sworn.) 4 MR. SOMACH: I guess we should start 5 with some appearances. This is Stuart Somach. 6 the attorney for the State of Texas. On the phone or 7 on the Zoom, I guess, is Rich Deitchman, Theresa 8 Barfield, Mac Goldsberry from my office, also 9 appearing on behalf of the State of Texas. 10 sure if anybody else is on the phone. There is -- I 11 have a list, but I can't entirely scroll through it 12 right now so if anybody else for Texas is on the 13 phone, just make your appearance. 14 (No response.) 15 MR. SOMACH: Then Jeff, for New Mexico? 16 MR. WECHSLER: Good morning. Jeff 17 Wechsler for the State of New Mexico, and we also have 18 or will have throughout the day John Draper, Greg 19 Ridgley, Arianne Singer, Shelly Dalrymple, Susan 20 Barela, Rolf Schmidt-Petersen, Peggy Barroll, and 21 Estevan Lopez. 22 MR. SOMACH: And for the United States? 2.3 MR. LEININGER: Good morning. This is 24 Lee Leininger for the United States, and we're joined 25 with Jim Dubois from Department of Justice, Chris Rich

1	and Shelly Randel from the solicitor's office, Ian
2	Ferguson, Michelle Estrada-Lopez, Bureau of
3	Reclamation.
4	MR. SOMACH: And for the State of
5	Colorado?
6	MR. WALLACE: Good morning. This is
7	Chad Wallace, along with Preston Hartman, for the
8	State of Colorado.
9	MR. SOMACH: And EP No. 1.
10	MR. HICKS: Renea Hicks for El Paso
11	County Water Improvement District No. 1, and also on
12	the Zoom, I believe, is Dr. Al Blair.
13	MR. SOMACH: Anybody on behalf of the
14	Elephant Butte Irrigation District?
15	MR. ESSLINGER: Gary Esslinger.
16	MR. SOMACH: Okay.
17	MR. FUCHS: Erek Fuchs.
18	MR. SOMACH: Okay. What about I'll
19	just go down through the service list here if I could.
20	What about for Albuquerque?
21	MR. BROCKMANN: Yes, Stuart, this is Jim
22	Brockmann on behalf of Albuquerque. I'll also sit in
23	for Jay for the City of Las Cruces.
24	MR. SOMACH: Okay. City of El Paso?
25	MR. CAROOM: Good morning. Doug Caroom

for the City of El Paso. 1 2 MR. SOMACH: Hudspeth County 3 Conservation Reclamation District? 4 (No response.) 5 MR. SOMACH: New Mexico pecan growers? 6 (No response.) 7 MR. SOMACH : New Mexico State? 8 MR. UTTON: Good morning. This is John 9 Utton. 10 MR. SOMACH: Anybody else? Okay. 11 Jeff, my -- is someone else -- want to say something? 12 MR. GEORGE: Good morning. This is 13 Jonathan George on behalf of Texas. I was -- I missed 14 my cue to speak. 15 MR. SOMACH: Okay. Who else? Anybody 16 else? 17 (No response.) 18 MR. SOMACH: Okay. Jeff, my 19 understanding is we'll go to -- I'm trying to think 20 when my time -- 1:00 your time, and if necessary, 21 we'll -- we'll move into tomorrow, and we have Friday, 22 and heaven forbid that we need another half day, but I 23 do appreciate your accommodating me. I did have a 24 conflict arise yesterday and because it was a family 25 conflict as opposed to a business conflict, I put the

priority there, so I appreciate your accommodation. 1 2 JOHN D'ANTONIO, 3 having been first duly sworn, testified as follows: 4 EXAMINATION 5 BY MR. SOMACH: 6 0. Mr. D'Antonio, you've been sworn in, and I 7 know that you've had your deposition taken before; is that correct? 8 9 Α. That's correct. 10 ο. A few times? 11 Α. A couple of times as far as I can remember, 12 yes. 13 Have you ever -- you've never done one of Q. 14 these remote depositions, have you?

I have not.

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Q. Okay. I -- I don't know if they're easier or harder, to be honest with you. This is the first one I've taken so we'll experience this together. Jeff's an old hand at it, so he can help us out where we -we run into problems. But in general, this is just like any other deposition, so I want to make certain that you understand that you're under oath and that by agreement of the parties and involvement of the Special Master, an oath is the same as if we were in the same room taking an in-person deposition. Do you

in a fully-appropriated system, is going to have to come from somewhere, and so we -- we allow for changes in placement purpose of use that only allow the consumptive use portion of a water right to be transferred from a move-from location to a move-to location so that we don't introduce any additional depletions within our systems.

- Q. Let me -- let me focus on the word depletion.

 Are you using the word depletion in a technical sense or does it carry a ordinary dictionary definition?

 How would you define depletions as you've been using it?
- A. Well, depletion would be taking away from a -- a certain supply, so a depletion would mean a loss to a system, in this case, a loss of water to a system. If you're -- if you're only transferring the consumptive use portion of a water right and you still have the return flow component that stays within the system, so if you're -- if you're doing that correctly, you're not introducing any depletions to that particular system because you're keeping the consumptive use the same.
- Q. And -- and is there some temporal nature of -- of -- of what you just articulated? In other words, you're talking about ensuring that if there is

a transfer, for example, you only transfer consumptive use, what would otherwise be return flows would -would remain in the system, but is that measured from a time perspective, given the fact that each year is different, including perhaps even cropping changes?

MR. WECHSLER: Objection; compound question.

- Q. (BY MR. SOMACH) Did -- did you understand the question or would you like me to rephrase it?
 - A. Well, yeah, could you rephrase it, please?
- Q. When you -- when you refer to the role of the state engineer in part is to -- to prevent depletions, it's depletions against some kind of a baseline, isn't it? It's not an abstract concept, is it?
- A. Well, I mean, the baseline is the existing -is the existing system and what's being used. I'm
 still not sure I understand the -- the question this
 you're asking.
- Q. Well, you -- you said the existing system.

 I'm just trying to understand actually what you're saying. So the state engineer wants to ensure that the existing system status quo is maintained. I -- I assume that that's what you're saying, but I don't -- I'm not saying that. I'm asking you if that's what you said.

A. Well, let me -- I guess, let me be a little more clear on my answer, I think. My job is to protect the existing water right owners within a particular system. So if you're protecting those owners through -- through eliminating depletions to that particular system, that's what my -- that's one of my main jobs, I think, through our water administration efforts through our district offices around the State of New Mexico.

- Q. I think you said earlier that -- do you consider in an interstate stream a downstream state to be part of what you're protecting from these depletions?
- A. Well, I think ancillary, they obviously derive benefits from that. I'm focused on the New Mexico water users and -- and the protection of impairment with respect to the bigger picture.

 Obviously, you know, the -- the -- the Compact on the Rio Grande is -- is really the overarching -- is the overarching piece in which there's other pieces the Rio Grande project underneath that, but that gets into -- that gets into the -- the aspect of the Compact. What I'm talking about right now is water rights administration and control and depletions throughout the State of New Mexico, which included the

lower Rio Grande.

Q. Okay. I want to come back to that, but I don't want to belabor it now because I'm still trying to make sure I understand the role of the Special Master. Does -- not the Special Master, the Office of State Engineer. I'm not sure I elevated or demoted you there. I don't know which way it goes. Does the state engineer make policy, water policy, for the state?

A. I think through the enforcement of our rules and regulations and following the mandates by the state legislature, we have -- we have a job to do to make sure we comply with those mandates. We can get involved in policy through -- and I think that's through and more of a function of the Interstate Stream Commission, which is a program under the state engineer's office through its water planning efforts, but from my perspective, the state engineer is really in a -- in a regulatory -- a regulatory role with respect to the duties of administering water.

- Q. Would it be fair to say that you implement water policy that has been developed by other entities within the state?
 - A. Yes.
 - Q. And I assume that means the governor's

office; is that correct?

A. Well, yeah, there's direction, obviously, from the governor's office, and if that policy -- that policy is consistent, but -- but it's got to be done under the -- under the boundary conditions of rules and regulations and technical analysis in order to implement policy so, you know, there are some gray areas, but -- but generally, you know, the policy -- policy piece can come down, but you, as the administrator of -- of water rights, you have to be able to figure out how to do it within -- within the law and within the technical analysis on impairment and other issues associated with public welfare and whether or not it's contrary to conservation.

- Q. Let's -- let me ask you a question about and you mentioned a couple times here. The Interstate Stream Commission. What is the Interstate Stream Commission?
- A. Well, the Interstate Stream Commission is a -- is a program, as I said, for budgeting purposes, under the state engineer's office. Obviously, we talked earlier that state engineer's position as secretary of the Interstate Stream Commission.

 There's commissioners that are appointed in that regard to help carry out policy -- policy regarding

1 we'll be back. 2 Α. Okay. 3 All right. MR. SOMACH: 4 THE VIDEOGRAPHER: The time is 10:18 5 We're off the record. a.m. 6 (Break.) 7 The time is 10:30 THE VIDEOGRAPHER: 8 a.m. We're on the record. 9 (BY MR. SOMACH) Mr. D'Antonio, we were Q. 10 talking about the various entities and agencies 11 involved with water administration and in particular 12 on the Rio Grande for the State of New Mexico. 13 What -- what is the role of the attorney general's 14 office with respect to the activities of the Office of 15 the State -- the Office of State Engineer, if any? 16 Α. Well, they -- they deputize some of our --17 you know, they're -- they get involved in interstate 18 litigation and so they're the -- they're the state 19 engineer's attorney, essentially, on -- on interstate 20 litigation. So that's -- their role is to defend the 21 State of New Mexico. 22 And is it -- do they independently represent 0. 2.3 or defend the Interstate Stream Commission in a 24 similar manner or is it some -- somehow different?

To my knowledge, it's -- they defend them

25

Α.

based on any time there is interstate litigation.

That's the extent of my knowledge on the AG's

involvement.

1.3

2.3

- Q. And the Compact-related issues, if there's no litigation, are -- is the attorney general's office involved?
- A. I would say typically not, but they from time to time get involved in -- in promulgating legislation or -- not promulgating, but passing legislation. But typically not if it's not interstate related. There's not really a need for their involvement.
- Q. In -- in -- from a policy perspective in litigation, and here I'm not asking, you know, for who makes decisions on legal issues, but rather to the extent that there are policy issues associated with litigation involving interstate streams, who provides that policy direction?
- A. You might have to rephrase that. I'm not sure that that -- I would say there's information associated that we provide, but information data is different than policy, so I'm not sure what your question is.
- Q. Well, it goes to decision making. The traditional attorney/client relationship, it -- you know, the client directs the attorneys with respect to

the position of the client in the litigation. Is it the same with respect to Compact litigation in New Mexico?

MR. WECHSLER: I object as to the extent it calls for a legal conclusion.

- Q. (BY MR. SOMACH) I'm not looking -- again, in fact, I'm not looking for any legal conclusions over the next three days, so you can put that out of your mind. But I am trying to get the state engineer's understanding with respect to that relationship.
- A. So the state engineer Interstate Stream Commission provide technical information data or consideration on whatever the lawsuit might be, whatever issue may come up. I'm not sure that your question on policy has to do with our involvement when we're trying to push a policy. We're -- we're technical people. We have modeling. We have rules and regulations. We have statutes, and we -- we try to comply with those, and if there's a disagreement, it's on a factual basis, not policy.
- Q. I'll come back to that, but for now, I'm going to move forward here. As the state engineer, the secretary of the Interstate Stream Commission, and commissioner of -- for the Rio Grande Compact, who would you say in the State of New Mexico is the person

1 that has the most knowledge about New Mexico's 2 obligations under the Rio Grande Compact? 3 I would say probably two -- two people, 4 former ISC director Estevan Lopez, and I would say our 5 existing interstate stream director, Rolf 6 Schmidt-Petersen, if I had to name two. 7 What about you? Q. 8 Well, I was gone for eight years --9 seven-and-a-half years in my role with the U.S. Army 10 Corps of Engineers, so I missed a period of time there 11 so I would put those two experience and continuity a 12 little bit ahead of mine with respect to being experts 13 on the Compact. 14 And that includes New Mexico's obligations 15 under the contract -- Compact? 16 A. Yes. 17 Ο. And, again, I'm not looking for any legal 18 issues or -- or questions here, but who within the 19 State of New Mexico would you say from a -- let's call 20 it a policy or factual perspective, is the person most 21 knowledgeable within the State of New Mexico about 22 the -- the Texas complaint against -- against New 2.3 Mexico? 24 Α. I use the same -- the same two names with 25 respect to the policy, Mr. Lopez and Mr. Rolf

Schmidt-Petersen.

2.3

- Q. Who in the State of New Mexico, again from a factual policy perspective, not a legal perspective, would you say is the most knowledgeable within the State of New Mexico with respect to the United States complaint in intervention?
- A. Probably the same two folks. I can't think of another one. And I'm leaving Peggy Barroll out because she's more of the technical person, but I think she fully understands all of the issues that are down there so, you know, those are the -- the folks that are intimately familiar with all those issues.
- Q. Do you know whether or not if -- let's stick right now with Estevan Lopez. Do you know whether or not Estevan Lopez was involved in the development of New Mexico's answer to the New Mexico -- of the Texas complaint in this case?
 - A. No, I do not.
- Q. Do you know whether he was involved with respect to the New Mexico's development of answers to the -- to the United States' complaint in intervention?
 - A. No.
 - Q. And I -- no, you don't know?
- A. No, I don't know.

2.3

- Q. Okay. What about Rolf Schmidt-Petersen, do you know whether he was involved in the development of the answer to the Texas complaint, the New Mexico answer to the Texas complaint?
- A. I think he -- well, I know that he was an advisor, but I don't know the extent of it.
- Q. And the same question with respect to the United States complaint in intervention, was Mr. Petersen involved, to your knowledge, in the development of the factual responses to the allegations in the United States' complaint?
 - A. Yes.
- Q. What about Peggy Barroll? Now, you said that you were leaving her out, but to the extent that there are factual components to the answer in the -- to New Mexico's answer to the Texas complaint, do you know whether Peggy Barroll was involved in -- in -- in those?
- A. No. You know, they're -- they're both expert witnesses, and I have seen their reports, but their individual involvement, I was sort of separated from how and when any of them were involved with -- with the complaint.
- Q. Do you know -- were you involved in the development of the New Mexico counterclaims against

1 Texas and United States? 2 Α. No. 3 Do you know whether or not Mr. Lopez was 4 involved in the development of counterclaims against 5 Texas and the United States? 6 Α. No. 7 Q. Do you know whether or not Ms. Barroll was 8 involved with respect to the development of the 9 factual contentions in the counterclaims brought by 10 New Mexico? 11 Α. No. 12 If I -- are Mr. Lopez, Mr. Petersen, and I'm Q. 13 going to throw Ms. Barroll collectively, the persons 14 most knowledgeable about the New Mexico positions with 15 respect to the counterclaims brought against Texas and 16 the United States. 17 Α. Was that a question? I didn't get to --18 I thought I started with "are" so let me put Q. 19 an are at the beginning. 20 Α. Okay. 21 Q. Go ahead. 22 Α. Can you repeat it? 2.3 Ο. Sure. Are Mr. Lopez, Mr. Petersen, and 24 Ms. Barroll collectively the persons most

knowledgeable about New Mexico's positions with

25

giving th	ne change, page number, line r	number and reason
for the c	change. Please sign each page	of changes.
PAGE/LINE	CORRECTION REASON F	FOR CHANGE
14/24	change "Hydrology" to "Hydraulic"	Correction
15/3 &13	change "Hydrology" to "Hydraulic"	Correction
15/ 10	change "Core" to "Corps"	Correction
18/6	change "TRC" to "T or C"	Correction
22/3	change "for immediately" to "when"	Correction
22/ 16	change "2008" to "2003"	Correction
23/ 19	delete " 's office"	Correction
23/20	change "buyer" to "hire"	Correction
27/22	change "2011" to "2003"	Correction
28/ 24	change "order of" to "other"	Correction
29/4	change "Indian - There's a Tribal Person" to "Ne	w Mexico Indian
The state of the s	Affairs Representative"	Correction
29/ 12	change "governor's got a" to "Governor appointe	ed a drought"
30/11	change "on" to "I'm"	Correction
34/ 34	change "placement" to "place and purpo	se" Correction
46/ 14	change "allocations" to "applications"	Correction
48/ 1	change "Playa" to "Plata"	Correction
49/11	change "on" to "by"	Correction
	Sul Danton 1	
	JOHN D'ANTONIO, VOLUME I	**
	JOHN D'ANTONIO, VOLUME I	

	ESS CORRECTIONS AND SIGNATURE	
	indicate changes on this she	
giving the	change, page number, line nu	umber and reason
for the cha	ange. Please sign each page	of changes.
PAGE/LINE	CORRECTION REASON FO	OR CHANGE
51/ 15	change "there being" to "they're"	Correction
52/7	add "the" after "within"	Correction
64/ 14	change "Petersen" to "Lopez"	Correction
89/ 5	change "can" to "can't"	Correction
101/ 13	change "those" to "low"	Correction
108/ 19	change "ratifications" to "ramifications"	Correction
	1	
	John d'ANTONIO, VOLUME I	

SIGNATURE OF WITNESS

I, JOHN D'ANTONIO, solemnly swear or affirm under the pains and penalties of perjury that the foregoing pages contain a true and correct transcript of the testimony given by me at the time and place stated with the corrections, if any, and the reasons therefor noted on the foregoing correction page(s).

JOHN D'ANTONIO, VOLUME I

Job No. 63558

Worldwide Court Reporters, Inc. (800) 745-1101

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1
              IN THE SUPREME COURT OF THE UNITED STATES
 2
               BEFORE THE OFFICE OF THE SPECIAL MASTER
                        HON. MICHAEL J. MELLOY
 3
 4
      STATE OF TEXAS
 5
              Plaintiff,
                                       Original Action Case
 6
      VS.
                                       No. 220141
                                       (Original 141)
 7
      STATE OF NEW MEXICO,
      and STATE OF COLORADO,
 8
              Defendants.
 9
10
     THE STATE OF TEXAS :
11
     COUNTY OF
                 HARRIS:
12
         I, HEATHER L. GARZA, a Certified Shorthand
13
     Reporter in and for the State of Texas, do hereby
14
     certify that the facts as stated by me in the caption
15
     hereto are true; that the above and foregoing answers
16
     of the witness, JOHN D'ANTONIO, to the interrogatories
17
     as indicated were made before me by the said witness
18
     after being first remotely duly sworn to testify the
19
     truth, and same were reduced to typewriting under my
20
     direction; that the above and foregoing deposition as
21
     set forth in typewriting is a full, true, and correct
22
     transcript of the proceedings had at the time of
23
     taking of said deposition.
2.4
              I further certify that I am not, in any
25
     capacity, a regular employee of the party in whose
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1 behalf this deposition is taken, nor in the regular 2 employ of this attorney; and I certify that I am not 3 interested in the cause, nor of kin or counsel to 4 either of the parties. 5 6 That the amount of time used by each party at the deposition is as follows: 7 MR. SOMACH - 03:11:39 MR. WECHSLER - 00:00:00 9 MR. LEININGER - 00:00:00 MR. WALLACE - 00:00:00 10 MR. HICKS - 00:00:00 11 GIVEN UNDER MY HAND AND SEAL OF OFFICE, 12 this, the 21st day of July, 2020. 13 - Drittmole 14 HEATHER L. GARZA, CSR, RPR, CRR 15 Certification No.: 8262 Expiration Date: 04-30-22 16 17 Worldwide Court Reporters, Inc. Firm Registration No. 223 18 3000 Weslayan, Suite 235 Houston, TX 77027 19 800-745-1101 20 21 22 23 24 25

1 2	BEFORE THE OFFIC	CE OF	OF THE UNITED STATES THE SPECIAL MASTER J. MELLOY
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4	STATE OF TEXAS)	
_)	
5	Plaintiff,)	
_)	Original Action Case
6	VS.)	No. 220141
_)	(Original 141)
7	STATE OF NEW MEXICO,)	
•	and STATE OF COLORADO,)	
8	~ 6 . 1 .)	
0	Defendants.)	
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16	* * * * * * * * * * * * * * * * * * *		
17			
1	OPAL AND MIDEOTADED	DEDO	SITION of PEGGY BARROLL,
18	produced as a witness at t		
10	Plaintiff, and duly sworn,		
19	above-styled and numbered		
10	from 8:41 a.m. to 3:24 p.m		- '
20	CSR, RPR, in and for the S		
20	machine shorthand, at the		-
21	FE, 828 Paseo De Peralta,		
	pursuant to the Federal Ru		
22	the provisions stated on t		
	hereto; that the deposition		
23		J-1 D-11	and bigined.
24			
25			
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1		
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1
     VIDEOGRAPHER:
2
          Mr. Gary Goldblum
3
      ALSO PRESENT:
4
           Mr. Ian Ferguson
5
           Mr. Jeff Wechsler
           Mr. Estevan Lopez
           Mr. John Utton
6
           Mr. Gary Esslinger
           Mr. Phil King
7
           Mr. Al Blair
           Mr. Gilbert Barth (via telephone)
8
9
10
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1	EXAMINATION INDEX	
2	WITNESS: PEGGY BARROLL	
3	EXAMINATION	PAGE
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4	BY MR. SOMACH	309
5		
6	SIGNATURE REQUESTED	348
7		
8	REPORTER'S CERTIFICATION	349
9		
10	EXHIBIT INDEX	
11		PAGE
	BARROLL EXHIBIT NO.13	212
12	Draft Groundwater Flow Model for	
	Administration and Management in the	
13	Lower Rio Grande Basin by S.S.	
	Papadopulos & Associates, Inc., dated	
14	November, 2007	
15	BARROLL EXHIBIT NO.14	231
	D2, D3 and Rio Grande Project Operations	
16	New Mexico Office of the State Engineer,	
	Hydrology Bureau, April, 2007	
17		
	BARROLL EXHIBIT NO.15	240
18	Rio Grande Project Operation Agreement -	
1.0	A State of New Mexico Perspective,	
19	Presented by Peggy Barroll PhD, dated	
0.0	August 5, 2010	
20	DIDDOLL DWW.D.T. NO. 16	0.40
0.1	BARROLL EXHIBIT NO.16	248
21	New Mexico Perspective on the 2008 Rio	
2.2	Grande Project Operations Agreement by	
22	Estevan Lopez, P.E., Director, New	
23	Mexico Interstate Stream Commission,	
23 24	dated March 9, 2011	
2 4 25		
ر ∟		
	D =	207
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1	BARROLL EXHIBIT NO.17	250
	Rebuttal Expert Report Revised	
2	Comparison of 2009 Farm Deliveries with	
	Farm Delivery Requirement Calculations	
3	for the Lower Rio Grande dated April	
	2011	
4		
	BARROLL EXHIBIT NO.18	256
5	Expert Report of Margaret Barroll,	
	Ph.D., dated October 31, 2019, Prepared	
6	for State of New Mexico	
7	BARROLL EXHIBIT NO.19	270
	Evaluation of Annual Operational	
8	Allocations and Deliveries Rio Grande	
	Project and the Republic of Mexico, 1951	
9	to 1978, dated July 30, 1981	
10		
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	Page 20	8

1	THE VIDEOGRAPHER: Today's date is
2	February 6th, 2020, and we are going on the record.
3	The time is 8:41 a.m. This begins DVD No. 4 in the
4	continuation of Dr. Peggy Barroll. The witness has
5	been sworn in, and you may proceed.
6	PEGGY BARROLL,
7	having been first duly sworn, testified as follows:
8	EXAMINATION
9	BY MR. LEININGER:
10	Q. Okay. Good morning, Dr. Barroll. This is
11	for the record, this is Lee Leininger. I'm continuing
12	the questioning this morning. So yesterday, we had
13	discussed the draft AWRMs, and one question I want to
14	go back to, it's the first public draft, Exhibit 11.
15	Do you still have a copy of that in front of you?
16	A. Yes, I do.
17	Q. If you'd turn to Page 14.
18	A. Yes.
19	Q. And see Paragraph AAA
20	A. Yes.
21	Q called, "Supply administration date." And
22	it reads, "Supply administration date, colon, a date
23	to be determined as necessary by the State Engineer
24	for implementation of supply administration to
25	temporarily curtail junior water rights in years in
	Page 209

1	is something that I don't know if the State could do
2	that legally. I think we it's not we we
3	believed that that would be a difficult thing to force
4	on the Lower Rio Grande, that it would instead be up
5	to the people in the Lower Rio Grande to decide
6	whether they wanted their aquifer to be sustainable.
7	Q. Let's go to the next exhibit.
8	(Discussion off the record.)
9	(Exhibit No. 15 was marked.)
10	Q. (BY MR. LEININGER) Dr. Barroll, you've been
11	handed what's been marked as Exhibit 15. It's
12	titled, "Rio Grande Project Operating Agreement, A
13	State of New Mexico Perspective," presented by Peggy
14	Barroll, PhD, August 5, 2010. Do you recall creating
15	this?
16	A. Yes.
17	Q. Okay. And essentially, why why was this
18	created, and what what is it? It's a PowerPoint
19	apparently. Why was it created?
20	A. My recollection is I was asked to present at
21	a a CLE, continuing legal education, conference,
22	and I presented this at that conference.
23	Q. Okay. So you presented it on August 5?
24	A. Yes. I believe so.
25	Q. Okay. So if you if you look about halfway
	Page 240

1	through sorry, I don't have a page number, but if
2	you look about halfway through your slides here,
3	you've got a slide called, "EBID's allocation"?
4	A. Yes.
5	Q. And you've got a line here for 2008/2009. So
6	you're comparing post operating agreement let's
7	back up for a second.
8	You're taking a perspective on the operating
9	agreement, and just to be certain, we're talking about
10	the 2008 Rio Grande project operating agreement; is
11	that right?
12	A. That's correct.
13	Q. That was operating agreement, which was
14	entered into between the two irrigation districts and
15	Bureau of Reclamation?
16	A. Yes. That's my understanding.
17	Q. And that implemented the D3 process that we
18	talked about?
19	A. The D3 process plus carryover.
20	Q. So, now, on this slide, you have figures
21	comparing 2008 and 2009 to 2001/2002, correct?
22	A. That's correct.
23	Q. And the reason for this is to show the
24	decrease in water allocated for EBID diversion?
25	A. That's correct.
	Page 241

1	Q. So in 2009, the allocation for EBID is
2	346,000 acre-feet?
3	A. That's what I've got in that table, yes.
4	Q. Okay. And to the best of your knowledge, was
5	2009 a full supply year?
6	A. Yes. I'd regard it as a full supply year.
7	Q. If you go to looks like it's
8	third-to-the-last slide. It's called, "How Are
9	Groundwater Pumping Effects Accounted?"
10	A. Yes.
11	Q. So this slide has four bullet points. Let's
12	just read through them. "Currently, EBID's allocation
13	is reduced for all deviations from the D2 curve, no
14	matter the source. As a result, New Mexico
15	groundwater pumping effects are addressed implicitly."
16	All right. Let me let me stop you right there.
17	When you're saying New Mexico groundwater effects
18	are pumping effects are addressed implicitly,
19	that's in reference to deviations from the D2 curve
20	and its impacts from groundwater pumping?
21	A. That's right. The deviations from the D2
22	curve have a number of causes. Part of that cause
23	would be increases in depletions in New Mexico since
24	the D2 period, and since the D3 method docks EBID for
25	all deviations from the D2 curve, this would include
	Page 242

Page 244

1	amount of pumping for New Mexico has been
2	grandfathered into the D2 into the D3 method, I do
3	not think that the D2 level of pumping in the Texas
4	has should should be grandfathered into the D3
5	method either.
6	Q. So you you state that part of your source
7	of information for why you think Texas pumping in the
8	Mesilla valley has increased is changes in cropping,
9	changes in irrigation efficiency. Are those studies
10	that you're familiar with, those recent recent
11	studies by by experts or are you just
12	A. This is from 2010, so it would not have been
13	based on the recent expert work.
14	Q. Okay. And what about the recent expert work,
15	do you think that quantifies those impacts?
16	MR. ROMAN: Object to form; foundation.
17	A. I haven't reviewed them closely enough to
18	determine exactly what how they speak to this
19	question.
20	Q. (BY MR. LEININGER) Okay. So you're not
21	you're not going to be testifying as to either of
22	those impacts?
23	A. I'm not sure what I'll be testifying to. I
24	may I'm still doing my rebuttal work or surrebuttal
25	work or whatever.

Page 245

1	Q. Okay. Let's look at the last bullet point
2	here. It says, "New Mexico should not pay for Texas
3	groundwater pumping impacts." Do you see that line?
4	A. Yes.
5	Q. Should New Mexico pay for New Mexico
6	groundwater pumping impacts?
7	A. That's a good question. I I believe that
8	the when I'm talking about pay for, what I'm
9	referring to is reduction in allocation to account for
10	is what I mean by pay for, and I believe that there
11	was a reason to reduce the total allocation of water
12	by the project, and unfortunately, they've made the
13	entire reduction out of New Mexico or EBID's share,
14	and none of it out of Texas' share.
15	Q. Okay. But the D3, the operating agreement
16	principle is that deviations from the D2 curve will
17	be will be accounted for in the in the
18	allocation process; is that correct?
19	A. Yes. And how it accounts for them is by
20	taking them all out of EBID's allocation.
21	Q. All right. And the deviations from the D2
22	curve, I think you've testified to, is a result, at
23	least in part, from groundwater pumping in New Mexico,
24	correct?
25	A. I would say that the deviation from D2 is
	Page 246
	1490 210

1	caused by increased depletions, some of which occur in
2	New Mexico, probably a large if if we're talk
3	the amount of increased depletions since the D2
4	period, I would say the majority of those would have
5	occurred in New Mexico. That would be my estimate.
6	Also, changes in other conditions since the D2 period,
7	including changes in Rio Grande project accounting,
8	which is another major factor, which was not
9	considered in development of the D3 method.
10	Q. So with regard to post D2 after 1978,
11	increase in depletions which have occurred in New
12	Mexico by groundwater pumping let me get back to
13	the original question. Should New Mexico pay for New
14	Mexico's groundwater pumping impacts that are
15	resulting?
16	A. I believe that an equitable and workable
17	allocation method would adjust the allocation to
18	account for the effect of New Mexico pumping on the
19	allocation to EBID, but it would not reduce EBID's
20	allocation for other factors not related to New
21	Mexico.
22	Q. Not related to New Mexico groundwater
23	pumping?
24	A. Right.
25	Q. Okay. All right. Let's move on.

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1	(Discussion off the record.)
2	(Exhibit No. 16 was marked.)
3	Q. (BY MR. LEININGER) Dr. Barroll, you've been
4	handed what's been marked as Exhibit 16. It's
5	titled, "New Mexico Perspective on the 2008 Rio Grande
6	Project Operations Agreement, by Estevan Lopez, P.E.
7	director New Mexico Interstate Stream Commission,
8	dated March 9, 2011. Have you seen this document
9	before?
LO	A. Yes.
L1	Q. Did you help Mr. Lopez create this document?
L2	A. I think I might have had a pass at a draft at
L 3	one point.
L4	Q. So let's let's go to the second page, just
L 5	the second-to-last paragraph. It's one sentence.
L6	I'll read it into the record. "New Mexico believes
L 7	that much of the reallocation of project water under
L8	the operating agreement is not in line with any
L9	physical changes in the system caused by New Mexicans,
20	comma, rather it is due to changes in measurement
21	methods, comma, natural variability, comma, changes in
22	the allocation procedures, comma, groundwater pumping
23	by Texas, comma, and Reclamation's system of credit."
24	Let me try that last part again. "Reclamation's
25	system of credits, period." Did I read that
	Page 248

1	correctly?
2	A. Yes.
3	Q. So so Mr. Lopez, New Mexico Interstate
4	Stream Commissioner at this time in March, 2011, did
5	not believe that the reallocation of the project water
6	under the operating agreement is in line with trying
7	to correct excessive groundwater pumping in New
8	Mexico?
9	MR. ROMAN: Object to form; foundation.
L O	A. I do not believe Commissioner Lopez would
11	agree that the operating agreement was the changes
12	caused by the operating agreement were related to
13	excessive groundwater pumping in New Mexico.
L 4	Q. (BY MR. LEININGER) Right. I mean, there's no
15	mention in this sentence of groundwater pumping by New
16	Mexicans, correct?
L7	A. That's correct.
18	Q. All right. Let's
19	A. Except as it mentions physical changes in the
20	system caused by New Mexicans. I believe that is code
21	for groundwater pumping, but or, rather, would
22	include groundwater pumping is what I mean.
23	Q. So what's your understanding of the portion
24	of the sentence that says, "The reallocation under the
25	operating agreement is not in line with any physical
	Page 249

1	IN THE SUPREME COURT OF THE UNITED STATES
2	BEFORE THE OFFICE OF THE SPECIAL MASTER
	HON. MICHAEL J. MELLOY
3	
4	STATE OF TEXAS)
)
5	Plaintiff,)
) Original Action Case
6	VS.) No. 220141
) (Original 141)
7	STATE OF NEW MEXICO,)
	and STATE OF COLORADO,)
8)
	Defendants.)
9	
10	
	THE STATE OF TEXAS :
11	COUNTY OF HARRIS:
12	I, HEATHER L. GARZA, a Certified Shorthand
13	Reporter in and for the State of Texas, do hereby
14	certify that the facts as stated by me in the caption
15 16	hereto are true; that the above and foregoing answers
16	of the witness, PEGGY BARROLL, to the interrogatories
17	as indicated were made before me by the said witness
18 19	after being first duly sworn to testify the truth, and
19 20	same were reduced to typewriting under my direction; that the above and foregoing deposition as set forth
20	in typewriting is a full, true, and correct transcript
22	of the proceedings had at the time of taking of said
23	deposition.
24	I further certify that I am not, in any
25	capacity, a regular employee of the party in whose
	capacity, a regard emproyee or one party in whose
	Page 349

1	behalf this deposition is taken, nor in the regular
2	employ of this attorney; and I certify that I am not
3	interested in the cause, nor of kin or counsel to
4	either of the parties.
5	
6	That the amount of time used by each party at
7	the deposition is as follows:
8	MR. LEININGER - 03:03:19
	MR. ROMAN - 00:00:00
9	MR. SOMACH - 01:04:52
	MR. WALLACE - 00:00:00
10	MS. O'BRIEN - 00:00:00
	MS. BARNCASTLE - 00:00:00
11	
12	GIVEN UNDER MY HAND AND SEAL OF OFFICE, on
	this, the 24th day of February, 2020.
13	١,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,
14	I cathour has
	T cecope sage
15	HEATHER L. GARZA, CSR, RPR, CRR
	Certification No.: 8262
16	Expiration Date: 04-30-22
	VERITEXT LEGAL SOLUTIONS
17	Firm Registration No. 571
	300 Throckmorton Street, Suite 1600
18	Fort Worth, TX 76102
	1-800-336-4000
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25	
	Page 350

1	droman@roblesrael.com
2	February 24, 2020
3	RE: Texas v. New Mexico
4	DEPOSITION OF: Peggy Barroll (Volume 2) (# 3852890)
5	The above-referenced witness transcript is
6	available for read and sign.
7	Within the applicable timeframe, the witness
8	should read the testimony to verify its accuracy. If
9	there are any changes, the witness should note those
10	on the attached Errata Sheet.
11	The witness should sign and notarize the
12	attached Errata pages and return to Veritext at
13	errata-tx@veritext.com.
14	According to applicable rules or agreements, if
15	the witness fails to do so within the time allotted,
16	a certified copy of the transcript may be used as if
17	signed.
18	Yours,
19	Veritext Legal Solutions
20	
21	
22	
23	
24	
25	
	Page 351

1	WITNESS CORRECTIONS AND SIGNATURE
2	Please indicate changes on this sheet of paper,
	giving the change, page number, line number and reason
3	for the change. Please sign each page of changes.
4	PAGE/LINE CORRECTION REASON FOR CHANGE
5	214/13 change "for" to "or" transcription error
6	223/13+14 omit "from surface works to ground water" I misspoke
7	
8	225/9 change "that the" to "what sort of" I misspoke
9	263/13 change "in" to "and" transcription error
10	277/3 change "and" to "in" transcription error
11	281/19 change "I've sorted" to "assorted" transcription error
12	297/4 should read "effect of changes in accounting between the two"
13	transcrationeror
14	(306/25-2 should read "the whole delta is 137,000 Af, and the delta
15	307/1 part I'm getting out of accounting is about 75,000"
16	I found the numbers and made the calculation
17	
18	337/8 should read "we domonstrated that the quality et
19	I musspoke
20	
21	
22	
23	
	PEGGY BARROLL, VOLUME II
24	
25	Job No. TX3852890
	Page 347

SIGNATURE OF WITNESS I, PEGGY BARROLL, solemnly swear or affirm under the pains and penalties of perjury that the foregoing pages contain a true and correct transcript of the testimony given by me at the time and place stated with the corrections, if any, and the reasons therefor noted on the foregoing correction page(s). PEGGY BARROLL, VOLUME II Job No. 3995842 Page 348

IN THE SUPREME COURT OF THE UNITED STATES
BEFORE THE OFFICE OF THE SPECIAL MASTER
HON. MICHAEL J. MELLOY

STATE OF TEXAS)	
)	
Plaintiff,)	
)	Original Action Case
VS.)	No. 220141
)	(Original 141)
STATE OF NEW MEXICO,)	
and STATE OF COLORADO,)	
)	
Defendants.)	

REMOTE ORAL AND VIDEOTAPED DEPOSITION OF

JOHN D'ANTONIO

JUNE 25, 2020

VOLUME 2

VOLUME Z

REMOTE ORAL AND VIDEOTAPED DEPOSITION of JOHN D'ANTONIO, produced as a witness at the instance of the Plaintiff State of Texas, and duly sworn, was taken in the above-styled and numbered cause on June 25, 2020, from 9:15 a.m. to 12:57 p.m., before Heather L. Garza, CSR, RPR, in and for the State of Texas, recorded by machine shorthand, at the offices of HEATHER L. GARZA, CSR, RPR, The Woodlands, Texas, pursuant to the Federal Rules of Civil Procedure and the provisions stated on the record or attached hereto; that the deposition shall be read and signed.

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23
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	Arianne Singer	
3	Shelly Dalrymple	
	Susan Barela	
4	Peggy Barroll	
	Estevan Lopez	
5	Ken Knox	
	Rolf Schmidt-Petersen	
6	Al Blair	
	Gary Esslinger	
7	Erek Fuchs	
	Ian Ferguson	
8	Michelle Estrada-Lopez	
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1 Today is Thursday, THE VIDEOGRAPHER: 2 June 25th, 2020. The time is 9:15 a.m. We're on the 3 record. 4 JOHN D'ANTONIO, 5 having been first duly sworn, testified as follows: EXAMINATION 6 7 BY MR. SOMACH: 8 Good morning, Mr. D'Antonio. 0. 9 Α. Good morning. 10 0. How are you this morning? 11 Α. Fine. Thank you. How are you? 12 And you've got all of your -- your Q. Good. 13 various electronic equipment functioning at this point 14 in time; is that correct? 15 I do, yes. It's -- I can see the realtime going on now, so thank you. 16 17 0. Good. 18 MR. SOMACH: Let's do some appearances here for the record. This is Stuart Somach, attorney 19 20 of record for the State of Texas in this litigation, 21 and with me also on behalf of the State of Texas are 22 Francis Goldsberry, Theresa Barfield, Rich Deitchman, 23 and Robert Hoffman. Those are the names that I see on 24 the screen that I have in front of me. If there's 25 anybody else for Texas, why don't you make your

particular irrigator, it doesn't necessarily benefit 1 2 the individual irrigator. 3 Could New Mexico, through a combination of 0. 4 increased consumptive use and better efficiency in 5 terms of the use of Rio Grande water, could New 6 Mexico, EBID in this case, consume a hundred percent 7 of the water that's released from Caballo? 8 MR. WECHSLER: Objection; vaque. 9 (BY MR. SOMACH) And when I say "could," I --Q. 10 I don't mean whether they physically could. Whether 11 they could do that under the Compact. Would that be 12 permissible under the Compact? 13 I suppose they could. Yeah, I think that's Α. 14 the extent of my answer. 15 Okay. So as I understood your answer was 16 that it would be permissible for New Mexico to consume 17 a hundred percent of the water that was released from 18 Elephant Butte reservoir? 19 MR. WECHSLER: Objection; vaque. 20 0. (BY MR. SOMACH) That --21 Α. No, that -- that's not my answer. 22 Correct what I said. Tell me why that's 0. 23 wrong. 24 Α. Because New Mexico would not consume a 25 hundred percent of the water released from Elephant

They would only -- they would only consume the 1 2 portion that they were allotted with -- with respect 3 to their percentage allocation. 4 Q. So 57 percent is the -- the limit on how much 5 could be consumed in New Mexico; is that correct? 6 MR. WECHSLER: Object to form. 7 No, I mean, there's other -- there's other Α. 8 uses, obviously, and I talked about project supply 9 consisting of not only the usable water, which is 10 apportioned between Elephant Butte and -- and El Paso 11 No. 1, but there's also inflow below Elephant Butte, 12 and there's also return drain flows, and there's also 13 conjunctive groundwater use that's used in both 14 So it's not the only water. states. 15 0. (BY MR. SOMACH) But I'm talking -- right now, 16 I'm talking about water that was contemplated in the 17 Compact and that is being released from -- from 18 Caballo. Is there a limit on how much of that water 19 can be consumed in New Mexico? 20 MR. WECHSLER: Objection; asked and 21 answered. 22 0. (BY MR. SOMACH) I -- there's a question 23 pending, Mr. D'Antonio, notwithstanding Mr. Wechsler's 24 objection.

It was asked and answered.

25

Α.

Q. So tell me what your answer was.

A. Your question is there a limit on how much water can be consumed in New Mexico, and the answer -- it's the surface water -- the surface water piece. I think that's what you were asking. The surface water that -- there is a limit on the surface water that can be used based on the apportionment from the Compact, but there are other sources of water as I stated in the previous answer.

- Q. Okay. Well, we'll come to the other sources of water, but -- but let's focus on the surface water apportioned from the Compact. I'm -- I'm not paraphrasing. What's the limit? What is the limit?
- A. The limit of the surface water is -- is the apportionment associated with the -- with the annual delivery, which is 57 percent for New Mexico users.
- Q. And -- and how is -- how are return flows factored into the apportionment if they're factored in at all?
- A. I -- I leave those details to the folks that are my water master down there on how they're doing that.
- Q. Is this at all a -- in your -- in your opinion, is this at all -- at all a Compact question?
 - A. Well, yes, it's -- it's a Compact

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1
    apportionment, and -- and -- well, if you think about
2
    it from a -- from the standpoint of the surface water
3
    portion, the 57 percent of what's delivered, New
 4
    Mexico farmers can use that to total consumption. So
5
    they can use some of their return flows on -- on their
6
    project lands within New Mexico until that surface
7
    water allocation is used -- is totally used.
 8
              I may -- I may come back to that. That's an
 9
     interesting description. I'm going to have to think
10
     about it a little bit. What does -- does New Mexico
11
    have any obligation to Texas under the Compact once it
12
    delivers water to the Elephant Butte reservoir?
13
             Not within the terms of the Compact.
        A.
14
             So it has no obligation to -- to Texas below
        0.
15
    Elephant Butte reservoir; is that -- is that correct?
16
    Is that your view?
17
                  MR. WECHSLER: Objection.
18
             Identify who -- "so it," who is "it"?
        A.
19
             (BY MR. SOMACH) The State of New Mexico is
        0.
20
     "it," figuratively and literally.
21
        A.
             The State of New Mexico has an obligation to
22
    deliver Compact water to the project.
23
        Q.
             At Elephant Butte reservoir; is that -- is
24
    that --
25
        A .
             That's correct.
```

1	Q. Does New Mexico have any obligation to ensure
2	that the the flow of water once released from
3	Elephant Butte reservoir that is earmarked under the
4	Compact for Texas is not impaired by activities within
5	New Mexico?
6	MR. WECHSLER: Object to form.
7	A. I would say not as identified by the Compact.
8	Q. (BY MR. SOMACH) Well, if not identified by
9	the Compact, under what other circumstances would
10	would State of New Mexico have an obligation not to
11	allow those flows to be impaired?
12	A. Well, let me be clear. The Compact is silent
13	in that regard downstream of Elephant Butte. As state
14	engineer, I'm very involved, my office is very
15	involved in in making sure that that there's no
16	new depletions to the system on how we managed water
17	all the way to the state line.
18	Q. Are you aware of any provision in the Compact
19	that would allow New Mexico to take back water that it
20	delivered under Article 4, that delivered to Elephant
21	Butte reservoir under Article 4?
22	MR. WECHSLER: Object to form.
23	A. I don't know what "take back water" means.
24	Q. (BY MR. SOMACH) Well, utilized water outside
25	of the contract with Elephant Butte Irrigation

District.

MR. WECHSLER: Again, object to form.

- A. I -- that question is still -- still don't know how to answer that particular question. I don't understand it.
- Q. (BY MR. SOMACH) Let me -- let me -- let me rephrase it a little bit then. In order for water released from Elephant Butte reservoir or Caballo to get to EBID lands, do you agree that it can't be impeded or impaired in terms of the flows of the river by non-EBID actors -- irrigators?
 - A. Yes.
- Q. Okay. In order for water released from Caballo to get to EP -- EP No. 1, do you agree that it can't be impeded by non-EBID actors? In other words, the same question, only with respect to EP No. 1?

MR. WECHSLER: Objection; vaque.

- A. It is vague. Non-EBI -- EBID actors. I'm assuming you're saying water users?
- Q. (BY MR. SOMACH) Yeah. Surface water users within Elephant Butte Irrigation District, or more specifically, the Elephant Butte Irrigation District. All I'm saying is, same question I asked you with respect to EBID, that non-project water users -- maybe that's a better way of utilizing that -- may not

impede the flow of surface water to either EBID or EP 1 2 No. 1; is that correct? 3 MR. WECHSLER: Objection; vague. 4 Α. Yes. 5 (BY MR. SOMACH) Okay. Let's take a -- a 0. 6 10 -- what -- what would you prefer? Let's go 15 7 It's -- it's about 11 now so let's start minutes. 8 around 25 after the hour. 9 Α. Okay. 10 MR. SOMACH: Okay. 11 THE VIDEOGRAPHER: The time is 10:11 12 a.m. We're off the record. 13 (Break.) 14 THE VIDEOGRAPHER: The time is 10:2715 a.m. We're back on the record. 16 MR. SOMACH: You can take down the 17 exhibit so we can see -- thank you. 18 0. (BY MR. SOMACH) John, you had indicated that 19 there were additional water as part of -- that become 20 part of the flow of the Rio Grande, and, again, if I'm 21 mischaracterizing what you said, just -- just correct 22 me, but below Elephant Butte reservoir, below Caballo, 23 what I would call additional accretions into the 24 river. What are those? What -- what are you talking 25 about when you talk about those additional flows into

1	Q. And as I understand, it is the Office of
2	State Engineer that provides that; is that correct?
3	A. Yes.
4	Q. And that includes surface and groundwater or
5	does it include surface and groundwater?
6	A. Yes.
7	Q. Do you agree that the operation of the Rio
8	Grande project is protected by the Compact?
9	A. Yes.
10	Q. Do you understand or do you agree that the
11	apportionment of Rio Grande water in the project is
12	protected by the Compact?
13	A. Yes.
14	Q. Do you agree that the Compact precludes New
15	Mexico from allowing surface water allocated to the
16	project and intended for Texas to be intercepted
17	before it reaches the state line?
18	MR. WECHSLER: Object to form.
19	A. Well, I think the way I'd answer that is New
20	Mexico doesn't intercept any any flow. It uses its
21	allocation, so that's how I understand the question.
22	Q. (BY MR. SOMACH) The question says intended
23	for Texas. So it identifies water in the project or
24	in the river that's identified and intended for Texas,
25	doesn't include EBID water, and it's talking about

1 surface water. 2 Α. So could I scroll up on your questions or --3 0. You can. 4 Α. Okay. Yes. It precludes New Mexico from 5 intercepting Texas' water. Are you aware of any illegal surface water 6 Q. 7 diversions below Elephant Butte reservoir? 8 I'm aware there has been some throughout the 9 years, and New Mexico, our office in Las Cruces, takes 10 a very active role in enforcement and putting out 11 cease and desist orders to stop flows in the 12 diversions. 13 Are you familiar with the Gillis -- so-called 0. 14 Gillis wells? 15 Α. No. 16 Q. Other than EBID's diversions under the 17 project contracts, are there any other legal surface water diversions of the Rio Grande below Caballo? 18 19 Any other legal diversions? One that I know Α. 20 of is the Bonita diversion, but that's got its own 21 water rights, and as far as I know, it's a nonissue 22 with respect to the Lower Rio Grande.

you're aware of that would be in your mind appropriate

surface water diversion below --

So is that it? That's the only diversion

23

24

25

0.

A. I don't know that it's the only one. It's the only one to my knowledge.

- Q. Okay. Okay. Can the pumping and extraction of groundwater affect surface water flows in the Rio Grande?
 - A. Yes.

- Q. Has the amount of groundwater pumping to your knowledge within New Mexico below Caballo increased since 1938?
- A. I would say it's -- it's variable. It increases during times of drought so in the '50s, in the '70s, in the early 2000s, it has increased.
- Q. Do you know whether or not groundwater levels below Elephant Butte, below Caballo, have declined since 1938?
- A. Well, I think from my looking at the information that I've seen, groundwater levels historically have come back after all of these drought periods, except for the the most recent one, and that was the only change condition that I could tell was the implementation of the 2008 operating agreement and how that operating agreement exacerbated groundwater pumping within the State of New Mexico and that groundwater level has not recovered since that operating agreement has been put in place.

Okay. We'll talk a little bit later about 1 0. 2 the operating agreement. I know the United States has 3 some questions related to that, so we'll come back to 4 that. 5 Does increased groundwater pumping below 6 Elephant Butte reservoir, below Caballo in New Mexico 7 cause additional releases of water from Elephant Butte 8 reservoir to ensure that project deliveries can be 9 made? 10 MR. WECHSLER: Object to form. 11 Α. Ambiguous question as far as additional 12 releases to whom. 13 (BY MR. SOMACH) Let me ask you this question: Q. 14 Does groundwater pumping below Elephant Butte 15 reservoir in New Mexico have, to your knowledge, any 16 affect upon how the Rio Grande Reclamation project is

- operated?
 - Α. I'd say no.

17

18

19

20

21

22

23

24

- What other water besides project water is delivered into Elephant Butte reservoir? Let -- let me -- I actually don't mean project water. What water besides Compact water is delivered into Elephant Butte reservoir?
 - MR. WECHSLER: Objection; ambiguous.
 - San Juan-Chama water can be deposited in Α.

Elephant Butte reservoir -- reservoir and so -- so is 1 2 New Mexico credit water. 3 (BY MR. SOMACH) Any other water? Q. 4 Not that I'm aware of. And the accounting of credit water is -- is 5 0. 6 done through the Compact Commission; is that correct? 7 It's done through the engineer advisors of 8 the respective states that make up the Compact. 9 What about the San Juan-Chama water, how is 0. 10 that accounted for? 11 It's accounted for the same way, essentially Α. 12 the -- the engineer advisors talk and look at the 13 models associated with the -- with that water and how 14 to -- how to account for it, how to make sure, where 15 it's consumptively used, in what proportion and so 16 they -- they quantify it and make sure there's an 17 accountable record of the San Juan-Chama water. And explain -- I mean, I -- I know what San 18 Q. Juan-Chama water is, but for the record, could you 19 20 describe what San Juan-Chama water is? 21 Sure. It's trans-mountain water that's Α. 22 absorbed from the Colorado system. It was a Bureau of 23 Reclamation project that -- that allows for contracts 24 to utilize that water, and there's several

entities/contractors that have the right to use that

to Texas?

A. Not in that statement. The way that statement is written, no, it doesn't require that.

Q. So let me add that as a question. Is New Mexico obligated to protect and ensure that Texas' apportioned rights are protected? I'll just insert that instead of senior water rights.

MR. WECHSLER: Object to form.

- A. I would object to saying obligated, but the ancillary benefit is that New Mexico does manage its water that has an ancillary affect of protecting that water supply.
- Q. (BY MR. SOMACH) New Mexico does, but it doesn't have to; is that correct?

MR. WECHSLER: Object to form.

- A. I would say yes.
- Q. (BY MR. SOMACH) Let's take a look at the very next line. Or let me -- before we turn, before you move, I just noticed these -- these graphs about growing irrigation demand and growing M&I demand, and I know that the -- the numeric numbers are very difficult to read, but I believe under irrigation demand, the last year shown is 1995, and the last year shown under the municipal demand is 2001. I don't know if you could concur that what I just said is --

I think you can see it better, actually, on is true? the projected. I'm trying to enlarge the screen here without Α. going to the next slide. So the question, yeah, 1995, and 2001, yes. To your knowledge, has irrigation 0. Okay. demand increased after 1995? That's a hard question other than I think, you know, there's been some increase in high water use crops, but there's also been a reduction in acreage, so the question is has irrigation demand increased after '95? I mean, I could say it's somewhat balanced 13 based on -- based on some of the decreases that have

- 0. The reason --
- That's my knowledge. Α.
- Q. The reason I ask the question is that the chart is entitled, "Growing irrigation demand."

acres down to about 70, 75,000 acres. So --

happened that I'm aware of, irrigated acreage at least

in -- in the New Mexico portion going down from 90,000

Α. Right.

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- What you've described is anything but 0. growing. You've described irrigation demand that is stable.
 - Well, I think your question was after 1995, Α.

so I don't have that information in front of me or that data in front of me, so I -- I would leave that to the experts that we have in New Mexico to maybe ask those questions during their depositions. So you don't know what demand has been Q. Okay.

- after -- irrigation demand has been after 1995 or what's depicted on this graph?
 - No, not immediately, I don't.
- And that would be the same with respect to 0. the graph describing growing municipal and industrial demand?
 - Α. Yeah, I don't know specific numbers.
- Do you know whether or not municipal and 0. industrial demand has grown since 2001?
- I mean, I would say yes, cities are growing, so it's hard to say no on that particular piece.
- 0. If you take a look at the next slide US0539813. See that? And that chart is entitled -or that page, that slide is entitled, "The facts we must deal with." Is that correct?
- Α. Yes.

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- 0. Okay. And what are the -- seems to be focused on groundwater. What are those facts?
- Α. So groundwater use has increased in the Lower 25 Rio Grande. Groundwater pumping for irrigation use

alone may be as high as 50,000 to 100,000 acre-feet per year in full project supply years and 200,000 to 300,000, question mark, acre-feet per year in low project supply years.

- Q. Is -- is -- or was, I should say, that those facts of concern to you as state engineer?
 - A. Yes, they were at that time.
- Q. How about now? Are they no longer of concern to you?
- A. Well, let me answer it this way: They are of concern -- more of a concern since the operating agreement was put in place. I have to refresh this -- this realtime thing here. Oh, shoot. It kicked me off the system when I refreshed, my computer went down. Oh, there we go. Okay. I've got you back on.
 - Q. You got it?
 - A. Yeah.

- Q. So the question was: In reference to concerns, you said you were concerned then about groundwater, and I said what about now?
- A. Well, I would say more concerned now based on the implementation of the 2008 operating agreement, and more specifically, the accounting associated with it, because the transfer of -- of additional surface water to -- to the Texas farmers has greatly increased

- 1 the need for New Mexico farmers to pump groundwater. 2 When -- when I was putting this active water resource 3 management initiative in place, I would have had 4 control of limitations on -- on how we would get 5 together with this Lower Rio Grande Water Users group 6 and implement, I would say limitations on pumping and 7 other things that were in my control, since -- since 8 the operating agreement, yeah, I'm even more concerned 9 about the groundwater pumping because -- because it 10 has changed the project apportionments and is forcing 11 New Mexico to pump much greater amounts of 12 groundwater. 13 Let's take a look at the next slide, which is 0. 14 0539814. 15 Α. Is that it? 16 Q. I used the word concerned before. You define 17 it here as a problem. Is that -- is that correct? 18 Well, I want to confirm I'm on the right Α. 19 slide. 20
 - That's it. 0.
 - Α. Okay.

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- We got it so large now that -- but it's good 0. for my old eyes, I can assure you, so I'm not complaining.
- 25 Let me reduce it a little bit, so I can see Α.

1 more of it. Okay. 2 You define groundwater pumping here as a 3 problem; is that correct? 4 Α. Yes. 5 And you -- you talk about heavy reliance on Q. 6 groundwater without controls on it and then you list 7 three bullet points, right? 8 Α. Yes. 9 And you say in the first bullet point, I will Q. 10 repeat essentially what you said before, in that 11 groundwater and surface waters are linked, but here 12 you use the word closely linked. What does -- what 13 does that mean? 14 A direct connection, hydrologic connection. 15 0. And on the second bullet point, you 16 say, "Pumping" -- presumably groundwater 17 pumping -- "reduces river flow"; is that correct? 18 Α. Yes. 19 So river flow is how water gets from Okay. 20 Elephant Butte reservoir to Texas; is that -- is that 21 correct? 22 Α. Yes.

Q. So if groundwater pumping in New Mexico reduces river flow, does that mean it also reduces the amount of water flowing to Texas?

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1 linkage between surface and groundwater and the fact 2 that pumping of groundwater reduces river flow, that's 3 what this slide is talking about when it talks about 4 the claims that New Mexico groundwater pumping is 5 affecting surface water flows? 6 MR. WECHSLER: Object to form. 7 Q. (BY MR. SOMACH) Is that correct? 8 Α. Yes. 9 Turn to 0 -- US0539816. 0. 10 Is that the next slide? That number doesn't Α. 11 come up on my screen, so I can't --12 It's the next -- you had it. It was the next Q. 13 slide. That's it. You got it. 14 Α. Okay. 15 What is this slide trying to depict? Q. 16 The title is, "Risks to the State of New A . 17 Mexico Water Users." 18 And what are those risks? Q. 19 **A**. Litigation is -- interstate litigation is 20 obviously a risk. 21 Q. Well, you were very prophetic there. It's 22 like you're an oracle. But what you're worried about 23 in this slide is that if you don't address groundwater 24 pumping and its impact on surface water, Texas in a

sense may go to Supreme Court to complain about it; is

1 that -- is that accurate? 2 Yeah. According to this slide, it is. 3 Okay. And the second bullet says, "The 0. 4 Supreme Court could require offsets for all 5 post-Compact groundwater pumping." And you cite a 6 precedent for that; is that correct? 7 I did in this presentation, yes. 8 0. And in our case, post-Compact groundwater 9 pumping would include anything after 1938. That's 10 correct, isn't it? 11 MR. WECHSLER: Object to form. 12 **A**. Based on your question, yes. 13 (BY MR. SOMACH) Okay. And -- and the last 0. 14 bullet point is interesting. It says, "Loss of the 15 use of aquifer as a drought reserve." That kind of 16 goes to the conjunctive use of surface and groundwater 17 that you were talking about earlier, doesn't it? 18 Yes, it does. Α. 19 Okay. If you can turn to the next slide, 20 which for the record is US0539817, can you see that? 21 Well, you had it. There it is. 22 Α. This one? Okay. 23 0. Uh-huh. The -- the -- there appears to be --24 what you're saying here is that it's not just your 25 concern, it's the governor and the legislature's

concern; is that correct?

A. Yes.

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Q. Okay. And then the second bullet point there says, "Legislators have admonished the State Engineer not to let the Pecos River history repeat itself anywhere, including on the Lower Rio Grande." What is that -- what is that referring to?

The Supreme Court action that Texas took against New Mexico, I believe, in -- when they filed in 1974, but that was a different case, and there were -- there were measured under deliveries at the state line there. This is not the case in the same case in the Rio Grande, and the whole idea behind this presentation is to get the legislature and the governor behind giving me funding so that we could put the tools in place to preclude Texas from filing a lawsuit against New Mexico under some of those same -some of those same concerns. And, again, my -- my feeling was we were managing the Lower Rio Grande in a way that would allow us to stay out of litigation by taking care of and administering water rights based on this active water resource management initiative. So I know what the slides say, but the intent -- the intent was to keep it in control and -- and the corrections within New Mexico and -- and I think we

definitely would have been able to do that, and I think the operating agreement flipped that strategy on its head because it so exacerbated the need for New Mexico to pump additional groundwater before we could put this active water resource management initiative in place.

- Q. Turn to Slide No. 0539815, which I think is the next slide. Oh, you went past it. There you go. Here, you're talking about the action that is needed; is that correct?
 - A. Yes.

- Q. So let's -- let's start with the first bullet point, "Improved regulation of groundwater pumping is imperative." What -- what has been done to improve the regulation of groundwater pumping in the Lower Rio Grande?
- A. I put a metering order in place in December of 2004, requiring all groundwater pumping to be metered and followed up with two additional -- I think an extension of the orders and two additional orders in subsequent years to make sure there was compliance with -- with that order.
 - Q. Is that it?
- A. Well, no -- well, there was some other things that happened. Obviously in prior -- and I believe it

was in 1999, there was some Mesilla -- Mesilla quidelines, administrative quidelines, that were put in place, that the state engineer put in place that was the intent of managing groundwater pumping, but you really -- you really can't put -- you really can't manage what you don't measure, so it was necessary to put -- put the -- you know, the -- the meters in place and require the meters to be there. I also established a water master district not only there but other areas of the state and set up a water master within the Lower Rio Grande to start taking control and -- and quantifying the water that was being -that was being pumped and -- and so that's -- that happened. We even provided -- the State provided low-interest loan funding, because I got sued by Elephant Butte Irrigation District on them not wanting me to impose metering to them. We even provided low-interest loan money for them to get into compliance with that cost so the metering was not imperative. So when you look at improved regulation of groundwater pumping, we were -- we were putting that action in place through -- through those -through those efforts.

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Q. Let's turn to the -- to the next slide. It's actually two slides down. For the record, the one I'm

1 talking about the US0539820. It's the one that 2 says, "What LRGWUO can do." 3 Α. Okay. 4 Q. What is LRGWUO? Is that the association; is 5 that right? The Lower Rio Grande Water Users 6 Α. Yes. 7 Organization, I think. 8 So have the cooperative agreements that are 9 talked about in the diamond bullet for shortage 10 sharing, have they been developed? 11 **A**. No, they have not been developed yet. 12 Okay. What about the second diamond bullet, Q. 13 "Strengthen water leasing mechanisms, implement 14 special water users associations," has that occurred? 15 A. Not yet. 16 "Develop alternative methods to ensure Q. 17 seniors are kept whole." What -- what alternative 18 methods have been developed since 2005? 19 Well, we've -- we've teed -- we've teed these 20 issues up. Obviously we got -- we got challenged 21 in -- in district court on trying to establish the 22 district-specific regulations. We got -- we got sued 23 on -- on those particular regulations. We wound up 24 actually prevailing after the case went through 25 district court, court of appeals in New Mexico Supreme

Court in 2012 that New Mexico Supreme Court affirmed all of the actions that the state engineer took previously to put the active water resources management tools in place, but that's also about the time of the lawsuit. And so I think -- I think some of the activities that we've been trying to do have been hampered by -- by the lawsuit, obviously, and by -- by other things beyond the state engineer's control. Stuart, your mic is off. I can't hear you.

Q. I did that because the gardeners were outside and I couldn't hear, let alone I'm sure you can't. On that second -- on that slide -- that first bullet says, "Participate in developing different district-specific regulations." Do you see that? Have district-specific regulations been promulgated or developed?

MR. WECHSLER: What page are you looking at?

- A. What page are you on now, Stuart? Yeah.
- Q. (BY MR. SOMACH) It's -- it's the next page. Says, "In addition." And that, for the record, is US0539821?
- A. Yes. So draft district-specific regulations have been put -- have been drafted. I mean, we drafted the -- the -- but they haven't been formalized

based on a lot of these other issues that have gotten 1 2 in the way. 3 So they've been drafted, but they haven't 0. 4 been actually promulgated; is that correct? 5 That's correct. A. 6 Q. And so they obviously haven't also been 7 implemented; is that correct? 8 A. That's correct. 9 What about AWRMs for the Lower Rio Grande, 0. 10 have they been promulgated? 11 Α. I'm not sure I understand that question. 12 AWRMs aren't things that need to be promulgated. 13 Active water resource management is -- is a -- there's 14 a statute that was passed. Are you talking about 15 district-specific regulations? 16 Q. Yes. So how you would actually implement the 17 AWRM, a state statute, would be through 18 district-specific regulations; is that -- is that 19 correct? Am I understanding that correct? 20 Each -- each particular basin would Α. 21 have its own district-specific regulations that would 22 be put together by input and from input from all the 23 stakeholders within that particular basin. 24 Q. That hasn't been done yet is what I 25 understood you to say?

1 No, it has not been done yet. Α. 2 Okay. Has there been a reduction in Q. 3 groundwater pumping in New Mexico in the Rincon and 4 Mesilla valleys since 2005? 5 MR. WECHSLER: Objection; vague. I don't know. 6 Α. 7 Okay. Let's -- let's --MR. SOMACH: 8 we've been at this now for maybe an hour and a half so 9 let's take a break. Let's come back at 11:05, 12:05. 10 I will say that I'm not sure how much longer I'll go 11 and whether we'll finish with me today, but in any 12 event, the United States is going to follow. 13 I'll -- I'll try to get as much done as I can do in 14 the next hour before we have to break today. 15 THE WITNESS: Okav. 16 MR. SOMACH: If I do the time right, 17 11:55 means -- 10:55 means it's 11:55 so it's almost 18 12:00. So that's -- what I did say is accurate. 19 try to get wrapped up in terms of my questions before 20 we break for the day, but if I can't, we'll trickle 21 over into tomorrow and then U.S. will -- will pick up. 22 Just to let you know my plans. Okay. That's it. 23 Let's -- let's talk about ten after. 24 THE VIDEOGRAPHER: The time is 10:56 25 p.m. We're off the record. I'm sorry. 11:56 a.m.

1 IN THE SUPREME COURT OF THE UNITED STATES 2 BEFORE THE OFFICE OF THE SPECIAL MASTER HON. MICHAEL J. MELLOY 3 4 STATE OF TEXAS 5 Plaintiff, Original Action Case 6 VS. No. 220141 (Original 141) 7 STATE OF NEW MEXICO, and STATE OF COLORADO, 8 Defendants. 9 10 THE STATE OF TEXAS : 11 COUNTY OF HARRIS: 12 I, HEATHER L. GARZA, a Certified Shorthand 13 Reporter in and for the State of Texas, do hereby 14 certify that the facts as stated by me in the caption 15 hereto are true; that the above and foregoing answers 16 of the witness, JOHN D'ANTONIO, to the interrogatories 17 as indicated were made before me by the said witness 18 after being first remotely duly sworn to testify the 19 truth, and same were reduced to typewriting under my 20 direction; that the above and foregoing deposition as 21 set forth in typewriting is a full, true, and correct 22 transcript of the proceedings had at the time of 23 taking of said deposition. 24 I further certify that I am not, in any 25 capacity, a regular employee of the party in whose

behalf this deposition is taken, nor in the regular 1 2 employ of this attorney; and I certify that I am not interested in the cause, nor of kin or counsel to either of the parties. 5 6 That the amount of time used by each party at the deposition is as follows: 7 8 MR. SOMACH - 03:07:40 MR. WECHSLER - 00:00:00 9 MR. LEININGER - 00:00:00 MR. WALLACE - 00:00:00 10 MR. HICKS - 00:00:00 11 GIVEN UNDER MY HAND AND SEAL OF OFFICE, 12 this, the 21st day of July, 2020. 13 14 HEATHER L. GARZA, CSR, RPR, CRR 15 Certification No.: 8262 Expiration Date: 04-30-22 16 17 Worldwide Court Reporters, Inc. Firm Registration No. 223 18 3000 Weslayan, Suite 235 Houston, TX 77027 19 800-745-1101 20 21 22 23 24 25

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PAGE/LINE	CORRECTION REASON FO	R CHANGE
51/24	change "account" to "accounted"	Correction
57/ 20	change "ensues" to "sued"	Correction
58/ 4	capitalize "n" in "new"	Correction
60/ 25	change "was" to "were"	Correction
70/8	change "a" to "an"	Correction
73/ 7&8 del	ete "you know don't adjudicate interstate compac	t
	variable supply where it's"	Correction
76/ 11	change "there" to "they"	Correction
76/ 12	delete "case in the"	Correction
78/7	change "metering to" to "metering on"	Correction
78/ 19	delete "that cost so"	Corection
78/ 19	change "was" to "so that cost was"	Correction
78/ 20	change "imperative" to "a factor"	Correction
79/ 25	change "in" to "and in the"	Correction
80/1 ch	ange "that New Mexico Supreme Court" to "they"	Correction
83/ 8,9 & 19	change "waterline" to "water law"	Correction
83/ 10	change "attendance" to "obligation"	Correction
83/ 13	change "in" to "and"	Correction
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83/ 14	change "add" to "an"	Correction
91/ 14	change"a few" to "to"	Correction
91/15	change "than" to "that"	Correction
96/ 13	change "that" to "that need to"	Correction
96/ 17	change "full" to "whole"	Correction
100/16	change "nonuse" to "nonuse an issue	e" Correction
100/17	change "issued" to "issues"	Correction
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SIGNATURE OF WITNESS

I, JOHN D'ANTONIO, solemnly swear or affirm under the pains and penalties of perjury that the foregoing pages contain a true and correct transcript of the testimony given by me at the time and place stated with the corrections, if any, and the reasons therefor noted on the foregoing correction page(s).

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IN THE SUPREME COURT OF THE UNITED STATES
BEFORE THE OFFICE OF THE SPECIAL MASTER
HON. MICHAEL J. MELLOY

STATE OF TEXAS)	
)	
Plaintiff,)	
)	Original Action Case
VS.)	No. 220141
)	(Original 141)
STATE OF NEW MEXICO,)	
and STATE OF COLORADO,)	
)	
Defendants.)	

REMOTE ORAL AND VIDEOTAPED DEPOSITION OF JENNIFER STEVENS

JULY 27, 2020

REMOTE ORAL AND VIDEOTAPED DEPOSITION of JENNIFER STEVENS, produced as a witness at the instance of the Plaintiff State of Texas, and duly sworn, was taken in the above-styled and numbered cause on July 27, 2020, from 9:01 a.m. to 1:45 p.m., before Heather L. Garza, CSR, RPR, in and for the State of Texas, recorded by machine shorthand, at the offices of HEATHER L. GARZA, CSR, RPR, The Woodlands, Texas, pursuant to the Federal Rules of Civil Procedure and the provisions stated on the record or attached hereto; that the deposition shall be read and signed.

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1	THE VIDEOGRAPHER: The time is 9:01 a.m.
2	We're on the record.
3	MR. HOFFMAN: Before we begin, why don't
4	we get the appearances? For Texas, this is Robert
5	Hoffman and Mac Goldsberry. We also have Scott
6	Miltenberger, our consultant, on the line.
7	How about for New Mexico?
8	MR. WECHSLER: Good morning. Jeff
9	Wechsler for the State of New Mexico.
10	MR. HOFFMAN: United States?
11	MR. DUBOIS: James Dubois is on for the
12	United States. Good morning, everyone. Oh, and Lee
13	Leininger is also on.
14	MR. HOFFMAN: How about Colorado?
15	MR. WALLACE: Good morning. This is
16	Chad Wallace for Colorado.
17	MR. HOFFMAN: How about for EP No. 1?
18	MS. O'BRIEN: Good morning. This is
19	Maria O'Brien for El Paso County Water Improvement
20	District No. 1.
21	MR. HOFFMAN: Is there anybody for EBID?
22	(No response.)
23	MR. HOFFMAN: City of El Paso?
24	(No response.)
25	MR. HOFFMAN: City of Las Cruces?

1	(No response.)
2	MR. HOFFMAN: Albuquerque Bernalillo
3	Water County Water Utility Authority?
4	(No response.)
5	MR. HOFFMAN: Hudspeth?
6	(No response.)
7	MR. HOFFMAN: Pecan growers?
8	(No response.)
9	MR. HOFFMAN: New Mexico State
10	University?
11	MR. UTTON: Good morning. This is John
12	Utton.
13	MR. HOFFMAN: Nicolai, who's that?
14	MR. KRYLOFF: Hi, this is Nic Kryloff,
15	expert historian for the United States.
16	MR. HOFFMAN: Okay. I'm sorry.
17	MR. DUBOIS: My apologies. I didn't
18	notice Nic.
19	MR. KRYLOFF: No worries.
20	MR. HOFFMAN: Okay. Can the witness be
21	sworn, please?
22	THE REPORTER: Yes.
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1	JENNIFER STEVENS,
2	having been first duly sworn, testified as follows:
3	EXAMINATION
4	BY MR. HOFFMAN:
5	Q. Will you state to your name for the record,
6	please?
7	A. Jennifer Audrey Stevens, S-T-E-V-E-N-S.
8	Q. And, Ms. Stevens, how should I refer to you,
9	Ms. Stevens, doctor, how would you like to be referred
10	to?
11	A. Dr. Stevens is probably appropriate for the
12	day.
13	Q. Okay. Thank you. I will do so. Are you in
14	Boise now?
15	A. I am.
16	Q. How's the weather there?
17	A. It's very hot.
18	Q. Well, I'll bet you don't have Phoenix beaten,
19	because that's where I am.
20	A. It is supposed to be triple digits this week
21	so maybe not quite as high in the triple digits, but
22	triple digits nevertheless.
23	Q. That's unpleasant.
24	A. Yes.
25	Q. Turn on the air-condition in the room, right?

1 Α. I see that. 2 Mr. Bryan is identified as the senior 3 geologist and associate professor of geology at 4 Harvard, and he carried out his study, quote, under 5 the direction of C.V. Theis, end quote --I see that. 6 Α. 7 -- in the JIR 197. Do you have any reason to 0. 8 disagree with that? 9 Α. No. 10 And in there, it's stated, No. 1, "The 0. 11 12

extensive development of groundwater for irrigation would add no new water to the Upper Rio Grande Basin."

13 Is that correct?

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- Α. That's what it states, yes.
- 0. Do you have any reason to disagree with that statement?
- Α. I think it's an isolated -- are you -- are you done asking?
 - 0. Yes. I'm sorry.
- So I think that I don't have any reason to doubt that that was in the report; however, there were many other things in the report that I think are equally important to recognize when we're talking about this particular issue, and that is that with regard to groundwater below Elephant Butte Dam, the

report also said that in Part 4 that there was meter data and Texas, in particular, Hill -- at the direction of Hill recommended and asked that the area south of Elephant Butte not actually be studied for this joint investigation. So while I don't doubt that this is what No. 1 says, and it comes directly from the joint investigation, I think that there are other things that are important to recognize that came from that same investigation and that same report.

- Q. Well, let's understand what -- what you understand to be the state of groundwater development in 1938 below Elephant Butte. First, there was a problem identified in 20 -- in -- in -- in 1920s or 19 -- actually, 1919 that there was waterlogging down below Elephant Butte because of over-irrigation, correct?
- A. Yes.

- Q. And that they had to build drains, correct?
- A. Yes.
 - Q. And that the drains were necessary in order to continue to irrigate the lands that were meant to be irrigated pursuant to the project, correct?
 - A. Yes.
 - Q. And, in fact, under the JIR, that drain water that appeared in the drains was part of the project

1 supply, correct? 2 Α. Yes. The return water was part of the 3 project supply. 4 0. So that the down -- as you went downstream 5 from the dam, first users were using mostly almost 6 primarily water released from the dam. As you went 7 downstream, each user was using less water from the 8 dam and more water from return flow, correct? 9 Α. That is right. Yes. 10 0. All the way down through El Paso, is that 11 right? 12 Α. It is true, yes. 13 And that was --Q. 14 Α. Return flows were used multiple times. 15 Okay. And that was the state of affairs in 0. 16 1938, correct? 17 Α. Yes. It was. 18 And -- and, in fact, there were very few 19 wells in Elephant Butte Irrigation District as of 20 1938, correct? 21 That's right. They were displaced when 22 surface water became readily available when the 23 project went in. 24 In fact, I think I saw in one of the -- your Q. 25 documents that you attached as a supporting document

to your rebuttal report that at least as of 1937, the Bureau of Reclamation reported that there were only 37 wells -- I'm sorry -- 1947, that there was only 37 wells in Elephant Butte Irrigation District, irrigation wells that is; is that right?

- A. Yes. That's right. And that was because, again, the project supply starting when the dam became operational supplanted the need for the prior use of wells in that area.
- Q. Okay. The second statement on Page 12 from the JIR is that, quote, "Recharge of groundwater basins would necessarily involve a draft on surface water supplies, which are now utilized otherwise." Do you disagree with that statement?
 - A. I don't disagree that the report says that.

And the report also said -- the next No.

- 3, "The chief element to be considered in such development of groundwater would be the redistribution
- present supplies and the resulting effect on the water supply of lower major units, i.e. Rio Grande project

of availability and use -- availability and use of

- and beyond Fort Quitman." So that would include El
- 23 Paso No. 1?

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A. What would include El Paso No. 1, the lower major units?

Q. Yes.

A. Yes. But, of course, they're talking here about development of groundwater above Elephant Butte. And, in fact, if we are going to discuss these quotes, it probably would make more sense to bring up the report itself so we could see the context of it as opposed to just the quotes themselves here.

- Q. You don't think this applies to groundwater development below Elephant Butte; is that correct?
- A. Again, I'd want to look at the document itself as opposed to just the quote taken out of this report because I don't recall.
- Q. So you don't recall one way or the other, looking at this document today, as to -- this quote today as to whether or not it applied throughout the basin?

MR. WECHSLER: Object to form.

- Q. (BY MR. HOFFMAN) Correct?
- A. Yes. That's right. And I think, again, because you -- if you look at the rest of the report, that says very clearly, and we know from all the documents and all the studies that led up to the publication of the joint investigation report, we know there was virtually no work done south of Elephant Butte. So the majority of things that are discussed

1 regarding groundwater throughout the Rio Grande joint 2 investigation report relate to the knowledge and 3 understanding of groundwater in the Middle Rio Grande 4 Valley and in Colorado. 5 Well, the alluvium in the Middle Rio Grande 0. 6 Valley is no different from the alluvium down below 7 Elephant Butte, is it? 8 Objection; foundation. MR. WECHSLER: 9 I do not know. Α. 10 (BY MR. HOFFMAN) So then because you don't 0. 11 know, you don't know whether or not if this 12 statement -- I'll leave that alone. I'll just not go 13 there. Okay. 14 MR. HOFFMAN: Can we take a 15-minute 15 break right now? Is that okay? 16 THE WITNESS: Sure. 17 MR. HOFFMAN: Okay. 18 THE VIDEOGRAPHER: The time is 10:13 19 a.m. We're off the record. 20 (Break.) 21 The time is 10:30 THE VIDEOGRAPHER: 22 a.m. We're on the record. 23 MR. HOFFMAN: Okay. Dr. Stevens, let's 24 mark another exhibit that would be identified as 25 19350913 report of the Rio Grande Board of Review.

the people in the Middle Rio Grande the chief concern of the negotiating commissioners for New Mexico?

- Your question says wasn't that his concern." I don't know what you're referring to.
- Well, it says that you -- you testified that 0. there was a concern that the Middle Rio Grande Project and then reclamation of lands in that area, they were concerned that the farmers in the district were I think it meant at protecting their -concerned. their water supply, so that's the reason he was And -- and my question is wasn't that the active. issue that was mainly the concern -- chiefly the concern of the Compact commissioner for New Mexico at the time?
- Α. No, I wouldn't agree with that.
- 0. Who was the Compact commissioner, Mr. McClure?
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- Thomas McClure. Α. Yes.
- Q. And he wrote a letter objecting to the initial Compact commissioner's report; is that right?
- Α. He did. He was concerned, of course, that the Middle Rio Grande users would hold up ratification or somehow other delay or -- or sort of derail negotiations and so, of course, that was -- those were some of the water users that New Mexico's were -- had

to protect, but it certainly wasn't the only ones.

- Q. And that letter chiefly objected to the 800,000 acre-foot normal release figure, didn't it, in the engineering advisor's report?
- A. Do you have the letter handy? I -- I don't have that bit of recall.
- Q. I'm sure it's part of this document. I can locate it. I'll go back to it later maybe. I believe it's part of this document.

Let's go back in a minute to your initial report, which is Exhibit No. -- I believe No. 2. I'm sorry. It's No. 1, I believe. Page 8 of that document. Yes. Scroll down a bit. Right there.

The three bullet points under, "Methodology and materials consulted," it says you were tasked with exploring the following overarching questions. My question to you is who formulated those questions for you?

A. I think it was a joint effort between me and the team at the attorney general's office, if I remember correctly. At the time I was working with Sarah Bond, and I believe that together, we came up with these questions or something approximating these questions, as we discussed the -- the state of litigation and what was necessary from a historical

standpoint.

Q. Okay. Thank you. I'd like to sort of go over a little bit some of the -- your supporting documents for your opinions in your rebuttal report. The first document I'd like to look at is JS259.

(Exhibit No. 8 was marked.)

- Q. (BY MR. HOFFMAN) What is this document?
- A. If you could scroll down so I could see the document, please.

MR. HOFFMAN: Yeah, scroll down to the first page. Can you right that, please?

- A. It appears to be a letter to Mr. Slichter.
- Q. From whom?
- A. If you go to the end, I can see who the author of the letter was. B.M. Hall, the supervising engineer on the project.
- Q. So this was the letter that instructed Mr. Slichter on what he was supposed to be investigating with respect to the water resources in the Mesilla Valley?
- A. It appears to be, yes. Can you scroll back up one page, please? Thank you. Yes.
- Q. Says, "I have been expecting to hear from you and am anxious for you to make investigation in the Rio Grande Valley, especially in the part known as

1 Mesilla Valley from old Fort Selden above Las Cruces 2 down to El Paso." That's basically the area below 3 Elephant Butte, correct? 4 Α. Yes. 5 Then what he wanted to know is listed later 0. 6 in the letter, at least on the first page. 7 1, "How much water per square mile can be pumped 8 continuously from the ground at the lowest season 9 without lowering the water plane? No. 2, what are the 10 sources of supply of the underground water?" And 11 then, "Does the water all come down the river or is 12 there a large quantity coming from beneath the mesa 13 country on each side?" And then finally -- well, 14 third, "If there is a continuous underflow along the 15 river bed, what is the volume in cubic feet per second 16 during the time that the river is dry, so far as the 17 surface flow is concerned?" So that's -- those were 18 the questions he was supposed to answer, correct? 19 A . Yes. That's what it -- that's what Mr. Hall 20 is asking him to examine. 21 Q. Okay. Let's go to the report and see what he 22 came up with. That would be -- let me find it. 23 JS250. May I have that marked as an exhibit, please? 24 (Exhibit No. 9 was marked.) 25 Q. (BY MR. HOFFMAN) This is Exhibit 9. Do you

recognize this exhibit? 1 2 Α. Yes. 3 This is one of the supporting documents that 0. 4 you provided with your rebuttal expert report, 5 correct? 6 Α. Yes. I said yes. 7 Okay. Now, I noticed when I went 0. Yes. 8 through these documents that there was a number of --9 almost all of them had highlighting in orange, I think 10 it was, throughout the document, and my question to 11 you is: Did you make those yourself or did your 12 supporting people make those highlighting? 13 I made them? I have a bad habit of using Α. 14 that tool on Adobe. 15 0. So all the highlighting is yours, correct? 16 Α. Yes. 17 0. Chapter 3 of this document is 18 entitled, "Examination of Groundwater Supplies in the 19 Mesilla Valley," correct? 20 Α. Yes. 21 Q. Chapter 1 and Chapter 2 dealt with the 22 waters -- basically the narrows or the Lower Mesilla 23 Valley? 24 Α. Yes. 25 And it -- the Chapter 3, I don't know what 0.

page it is of the report, it's probably Page 15 or so. There you go. Now, you highlighted this portion. It says, "Owing to the frequent shortage in the river supply a number of pumping plants have been installed for the purpose of obtaining groundwater for irrigation." That's sort of the premise of the report, right?

- A. I don't know that I'd characterize it that way. And for the record, my highlights probably sometimes mean something and sometimes don't so just to put that on the record, it's, again, sort of a bad habit on my part of just sort of staying engaged in —in the reading, but whether or not this is the premise of it, I'm not sure. It probably is certainly one of them.
- Q. And then later on in that paragraph, you've underlined -- scroll down a bit, please -- right there -- "For that reason, it has become important to have accurate information of the source of groundwater supply in this part of the Rio Grande Valley and to determine the amount available for such use." So that 's what he's doing. In response to Exhibit No. 8, I believe, right? You have to answer audibly.
 - A. Yes. That's what he's written here.
 - Q. And then, also, you underlined, I believe,

continue on the next paragraph, "The rainfall upon the catchment northeast of the valley is very slight and the runoff is corresponding below. Does not seem possible that the ground waters which are used for irrigation could originate very largely in the rainfall upon the neighboring Mesa and the foothills and upon the slopes of the Oregon Mountains." Did I read that correctly?

A. Yes.

- Q. Then he talked about the wells that he drilled later on and underlined stuff there. On that page that we're looking at right now -- scroll down a bit, please -- there's an arrow in the middle of the page. Do you see that arrow?
- A. Yes.
- Q. Do you know what that arrow is intended to indicate?
- A. I don't. Not without -- no, not without being able to read this again more thoroughly and looking more closely, I don't know off the top of my head.
- Q. Okay. And then he drilled some test wells, the next page, for the purpose of determining a source of the groundwater. And then it says on Page 25, and you didn't highlight this, but it -- in the middle of

the first paragraph, it says, "It is evident from these cross sections that the groundwater must flow in the general direction of the river valley, in the direction of maximum slope of the water plane as showed and configured by the large arrow." That was the arrow we're looking at, right?

- A. Probably. I don't know.
- Q. Well, the --

- A. I'll take your word for it.
- Q. Well, the map is -- Figure 8 is the map with that arrow on it, and I see no other arrow on it.

 Okay. "The arrows should, therefore, indicate the directional flow of the groundwater and the gradient of the water plane is 4.64 feet per mile is very moderate." Do you see that?
 - A. I do.
- Q. And then on the next page, Page 26, there's -- you did highlight this, "The direction of movement of the water in the gravel was therefore undoubtedly downstream, even during times of flood." Then further on, it says, "The test gradient of 4.64 feet to the mile was not materially affected by the floods." That's what I understood it to be saying. Did you understand it to be saying that same thing, that the flood didn't affect the gradient of the

1	water?
2	A. If I could, I'd prefer to read the entire
3	paragraph so that I can
4	Q. Based on what I'm representing to you
5	THE WITNESS: So, Kayla, if you could
6	start one page earlier so I could read the whole thing
7	in context. Thank you. Okay. And the next page.
8	A. Yes. I would agree with your statement.
9	Q. (BY MR. HOFFMAN) Okay. Let's turn to Page
10	27. Continue down. There, you've highlighted this
11	paragraph that begins, "The observation of the test
12	wells show that the ground waters in the Mesilla
13	Valley originate in the floodwaters of the river."
14	That's what he concluded, correct?
15	A. That's right.
16	Q. Okay. How about the next page, 28. Here,
17	you've highlighted trying to determine the amount
18	of groundwater available, correct?
19	A. Yes.
20	Q. The response to what Mr. Hall wanted,
21	correct?
22	A. Yes.
23	Q. That was one of the things he wanted in
24	Exhibit 8, right?
25	A. That's right.

1 So he's got a table that you have highlighted Q. 2 about, and then there's a statement at the end of the 3 paragraph that you've also highlighted. "Any greater 4 rate of pumping would have a tendency to lower the 5 water plane below its initial value and make a draft 6 upon the permanent supply stored in the gravels." I 7 believe -- it's not -- it doesn't show up here, but 8 you have a question mark there in the original that 9 was in your -- that was produced to us as a supporting 10 document, and you state in that comment, "I think this 11 is wrong corrected by later studies." Do you recall 12 that comment?

A. Not -- not specifically, no.

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- Q. And so you wouldn't at this point know why you thought that was wrong?
- A. Well, if I wrote that as a comment, it's because I had read labor studies and was in the middle of reviewing labor studies that did, in fact, prove that to be incorrect.
- Q. So what -- can you understand from -- from what's here and what's in the chart on the next page how much water he's talking about that could be pumped so that the limit that any greater rate of pumping would have a tendency to lower the water plane below its initial value and make a draft upon the permanent

1 supply as stored in the gravels, that statement that 2 you disagreed with, do you know what the level of 3 pumping he's talking about? 4 Α. No. I'm not a hydrologist. I didn't attempt 5 to quantify what that was, and I -- and I wouldn't be 6 able to. 7 Do you know how many gallons there are in a 0. 8 cubic foot -- sorry -- how many cubic feet of water 9 there is on an acre-foot? 10 I believe the calculation is 1.9 acre-feet Α. 11 per every cubic foot per second in a year, if I 12 remember correctly, but I don't have that -- I could 13 be wrong about that. I don't have it all committed to 14 memory. 15 0. Did you ever run those calculations to see --16 Α. No. 17 0. -- what, in fact, he's saying is the amount 18 of water is there? You didn't? 19 Α. No. 20 The rest of the report has to do with 0. a bunch of wells and stuff that he -- that he observed 21 22 and how they were constructed, right? 23 I -- my -- I would have to look back over it, Α. 24 but I -- I think that there were only those seven 25 pages that were relevant to the question of supply and

volume in the Mesilla Valley, if I remember correctly. 1 2 Q. Okay. The next report, Document No. 263, 3 JS263. Exhibit 10. 4 (Exhibit No. 10 was marked.) 5 (BY MR. HOFFMAN) Do you recognize this Q. 6 report? 7 Α. Yes. 8 0. This is a report by Willis T. Lee in 1907, I 9 guess? 10 Α. Yes. 11 Q. Right? 12 Α. Yes. 13 And it's designated as Water Supply Q. 14 Irrigation Paper No. 188, right? 15 Α. Yes. 16 Q. And Series B, Descriptive Geology, and Series 17 O, Underground Waters. What does that mean in terms 18 of the USGS? What are those? 19 Α. Sorry. Are you done with your question? 20 Yeah. I don't know what those mean. 0. 21 does that mean? 22 So the -- yeah, the -- the agency categorized Α. 23 the reports that were done by their staff and/or 24 professionals into different series so that people 25 would have a sense of what was inside the report, and

also -- well, that's basically it. It was just a category that these fit into.

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On So this is a -- not only a geology --

- Q. So this is a -- not only a geology -- descriptive geology series, but a water -- underground water series according to --
- A. Yes. It fit into those categories broadly, yes.
- Q. So the geography of the area under study is described in -- starting on Page 8, according to the --
 - A. You mean geology?
- Q. Let's look at the table of contents first before we go all the way through it. The geography is on Page 8, and it goes down through every part of it all the way down to the El Paso Valley, right?
 - A. Yes.
- Q. And then the geology is described starting on Page 16, and then on Page 25 reservoir sites are discussed?
- 20 A. Yes.

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- Q. And finally the water supply, Page 30, correct?
 - A. That's right.
- Q. So that's what we're interested in, so let's turn to Page 30. This talks about surface supplies,

IN THE SUPREME COURT OF THE UNITED STATES 1 2 BEFORE THE OFFICE OF THE SPECIAL MASTER HON. MICHAEL J. MELLOY 3 STATE OF TEXAS) 5 Plaintiff, Original Action Case 6 VS. No. 220141 (Original 141) 7 STATE OF NEW MEXICO, and STATE OF COLORADO, 8 Defendants. 9 10 THE STATE OF TEXAS : 11 COUNTY OF HARRIS: 12 I, HEATHER L. GARZA, a Certified Shorthand 13 Reporter in and for the State of Texas, do hereby 14 certify that the facts as stated by me in the caption 15 hereto are true; that the above and foregoing answers 16 of the witness, JENNIFER STEVENS, to the 17 interrogatories as indicated were made before me by 18 the said witness after being first remotely duly sworn 19 to testify the truth, and same were reduced to 20 typewriting under my direction; that the above and 21 foregoing deposition as set forth in typewriting is a 22 full, true, and correct transcript of the proceedings 23 had at the time of taking of said deposition. 24 I further certify that I am not, in any 25 capacity, a regular employee of the party in whose

1 behalf this deposition is taken, nor in the regular 2 employ of this attorney; and I certify that I am not 3 interested in the cause, nor of kin or counsel to 4 either of the parties. 5 6 That the amount of time used by each party at 7 the deposition is as follows: 8 MR. HOFFMAN - 02:56:39 MR. WECHSLER - 00:00:00 9 MR. DUBOIS - 00:23:27 MR. WALLACE - 00:00:00 10 MS. O'BRIEN - 00:00:00 11 GIVEN UNDER MY HAND AND SEAL OF OFFICE, this, the 10th day of August, 2020. 12 13 14 HEATHER L. GARZA, CSR, RPR, 15 Certification No.: 8262 Expiration Date: 04-30-22 16 17 Worldwide Court Reporters, Inc. Firm Registration No. 223 18 3000 Weslayan, Suite 235 Houston, TX 77027 19 800-745-1101 20 21 22 23 24 25

1	WITNESS CORRECTIONS AND SIGNATURE
2	Please indicate changes on this sheet of paper,
	giving the change, page number, line number and reason
3	for the change. Please sign each page of changes.
4	PAGE/LINE CORRECTION REASON FOR CHANGE
5	14/3 "assistants" "assistance" is wrong
6	22/19 "Wasnt" instead of "WAS on"
7	38/21 "engineering" instead of "hearing"
8	43/1 "meager" instead of "meter"
9	64/17+18 "Jater" instead of "Jacor"
10	78/4 "Adviser" instead of "odd visor"
11	92/10 Strike "and"
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SIGNATURE OF WITNESS I, JENNIFER STEVENS, solemnly swear or affirm under the pains and penalties of perjury that the foregoing pages contain a true and correct transcript of the testimony given by me at the time and place stated with the corrections, if any, and the reasons therefor noted on the foregoing correction page(s). JENNIFER STEVENS Job No. 63583

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