

# FINAL PLAYED

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Reeves, William 01-23-2019  
Reeves, William 01-24-2019

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10:11 - 10:21

**Reeves, William 01-23-2019 (00:00:19)**

REEVES\_COMBINED\_03.1

10:11 Q. Good morning, sir.

10:12 A. Good morning.

10:13 Q. My name is Brent Wisner, and I represent

10:14 the plaintiff in this lawsuit. I understand you have

10:15 been put forward as a witness to testify on behalf of

10:16 Monsanto; is that correct?

10:17 A. That's correct.

10:18 Q. What is your understanding of what your

10:19 role is here?

10:20 A. My role here is to represent the company

10:21 and speak on their behalf.

12:12 - 12:20

**Reeves, William 01-23-2019 (00:00:13)**

REEVES\_COMBINED\_03.2

12:12 Q. You also understand that you're under oath

12:13 here?

12:14 A. Yes.

12:15 Q. What is your understanding of that oath?

12:16 A. My job is to tell the truth.

12:17 Q. Great. And although we are not in a

12:18 courtroom right now, you understand this is a formal

12:19 court proceeding?

12:20 A. Yes, I do.

15:20 - 16:2

**Reeves, William 01-23-2019 (00:00:10)**

REEVES\_COMBINED\_03.3

15:20 Q. Do you have a scientific background?

15:21 A. Yes, I do.

15:22 Q. What is that?

15:23 A. I have a PhD in toxicology and a

15:24 bachelor's degree in biology.

16:1 Q. And where did you get your PhD from?

16:2 A. Texas A&amp;M.

16:8 - 16:16

**Reeves, William 01-23-2019 (00:00:15)**

REEVES\_COMBINED\_03.4

16:8 Q. And where did you go to undergrad?

16:9 A. University of Missouri.

16:10 Q. And how long have you been -- are you

16:11 employed at Monsanto?

16:12 A. Yes, I am.

16:13 Q. Now Bayer, I assume?

16:14 A. Bayer. That's right.

16:15 Q. How long have you worked there?

16:16 A. Twelve years.

Page/Line	Source	ID
33:15 - 33:20	<p><b>Reeves, William 01-23-2019 (00:00:12)</b>  33:15 Q. (By Mr. Wisner) And in the animal  33:16 toxicology realm, Monsanto has done two animal  33:17 toxicology studies; correct?  33:18 A. We have three there, so it's --  33:19 Q. Two rat, one mouse?  33:20 A. That's right.</p>	REEVES_COMBINED_01.5
154:5 - 154:22	<p><b>Reeves, William 01-23-2019 (00:00:40)</b>  154:5 Q. So we have the AHS. And I want to talk to  154:6 you a little bit about the AHS. And I understand it's  154:7 Monsanto's position -- correct me if I'm wrong -- that  154:8 you guys believe the AHS is the most reliable and best  154:9 of the epidemiological studies?  154:10 A. Our position is that the agricultural  154:11 health study with -- as envisioned -- as described at  154:12 the case control studies that they've done -- or I'm  154:13 sorry, as the cohort study -- provides the most  154:14 comprehensive look at pesticide exposure and health  154:15 risk, particularly with respect to glyphosate and  154:16 cancer.  154:17 Q. Do you believe there's any problems with  154:18 the study?  154:19 A. With the agricultural health study? Is  154:20 there a particular part of it? This is a very -- so  154:21 it's a very large study that looks at a lot of  154:22 different endpoints.</p>	REEVES_COMBINED_01.6
155:12 - 155:19	<p><b>Reeves, William 01-23-2019 (00:00:18)</b>  155:12 Q. (By Mr. Wisner) Well, fair enough. I'm  155:13 not talking about the overall AHS study. I'm talking  155:14 about these two publications right here in front of us  155:15 that relate to glyphosate; right?  155:16 A. That is correct.  155:17 Q. And so my question is, does Monsanto right  155:18 now have any criticisms of the AHS's analysis of  155:19 Roundup?</p>	REEVES_COMBINED_01.7
155:21 - 156:14	<p><b>Reeves, William 01-23-2019 (00:00:33)</b>  155:21 A. Could you help me understand your question  155:22 a little more? Just in terms of --  155:23 Q. (By Mr. Wisner) What don't you understand  155:24 about my question?</p>	REEVES_COMBINED_01.8

156:1 A. Well, is there a document that you're  
156:2 talking about, or is it just in general speaking at a  
156:3 very high level about these two studies?

156:4 Q. Listen, you're here to speak for Monsanto  
156:5 about its views and positions regarding epidemiology;  
156:6 right?

156:7 A. Yes, I am.

156:8 Q. And I'm talking about two epidemiology  
156:9 studies, and I'm just asking you straightforward, do  
156:10 you think there are anything wrong with those studies?

156:11 A. We believe that both of those studies are  
156:12 of high quality and do provide valuable information.

156:13 Q. So there's no criticisms that you can  
156:14 think of offhand?

156:16 - 156:17

**Reeves, William 01-23-2019 (00:00:04)**

REEVES\_COMBINED\_08.9

156:16 A. We would have to go through the study  
156:17 line-by-line to understand that.

156:24 - 157:5

**Reeves, William 01-23-2019 (00:00:13)**

REEVES\_COMBINED\_08.10

156:24 Q. Now, it's true that numerous Monsanto  
157:1 employees have made comments about the AHS before the  
157:2 results were learned about; correct?

157:3 A. That is true.

157:4 Q. And those comments about the AHS were not  
157:5 particularly flattering, were they?

157:8 - 157:11

**Reeves, William 01-23-2019 (00:00:07)**

REEVES\_COMBINED\_08.11

157:8 A. Sorry. Is there a document that you'd  
157:9 like to discuss?

157:10 Q. (By Mr. Wisner) Sure, we can go through  
157:11 them. I'll hand you Exhibit 20 to your deposition.

157:16 - 158:14

**Reeves, William 01-23-2019 (00:00:40)**

REEVES\_COMBINED\_08.14

157:16 Q. So this is a document. It's dated July  
157:17 22nd, 1997; right?

157:18 A. That is correct.

157:19 Q. And this is obviously before Monsanto knew  
157:20 of any of the results of the agricultural health study  
157:21 as it relates to Roundup?

157:22 A. That is correct.

157:23 Q. And this was a document prepared by John  
157:24 Acquavella?

158:1 A. Yes.

EXHIBIT 188.1.1

EXHIBIT 188.1.2

158:2 Q. And he had at this time was an  
158:3 epidemiologist employed by Monsanto?

158:4 A. That is correct.

158:5 Q. And just by curiosity, does Monsanto  
158:6 currently employ any epidemiologists?

158:7 A. Not to my knowledge, no.

158:8 Q. After Dr. Acquavella left, do you know if  
158:9 they ever hired an epidemiologist as an employee?

158:10 A. Not to my knowledge.

158:11 Q. So this is July 22nd, 1997, and he  
158:12 prepares this document to the communications  
158:13 subcommittee. Do you see that?

158:14 A. That is correct.

159:11 - 159:15

**Reeves, William 01-23-2019 (00:00:08)**

REEVES\_COMBINED\_03\_13

159:11 Q. (By Mr. Wisner) Well, this was a document  
159:12 produced to us by your company in this litigation, and  
159:13 you agree that Dr. Acquavella is discussing the AHS in  
159:14 this document?

159:15 A. Yes.

160:15 - 161:22

**Reeves, William 01-23-2019 (00:01:08)**

REEVES\_COMBINED\_03\_14

160:15 Let's  
160:16 go to the exposure assessment.  
160:17 Do you see that?

160:18 A. I do see that.

160:19 Q. And you understand that one of the big  
160:20 criticisms that our -- the plaintiff's experts have  
160:21 raised with the AHS is specifically about exposure  
160:22 misclassification.

160:23 Do you know that?

160:24 A. I do -- yes, I have heard that.

161:1 Q. Well, let's see what Dr. Acquavella has to  
161:2 say. He says under exposure assessment, the exposure  
161:3 assessment in the AHS will be inaccurate.

161:4 You see that?

161:5 A. I do see that.

161:6 Q. He doesn't say could be; right?

161:7 A. I understand -- seeing the words on the  
161:8 page.

161:9 Q. He says will be inaccurate; right?

161:10 A. He used those words.

EVENT 160:1

EVENT 161:8

161:11 Q. And that's what he said about the AHS  
161:12 before he ever knew the results related to glyphosate,  
161:13 or Roundup?

161:14 A. That's correct.

161:15 Q. And the next sentence reads inaccurate  
161:16 exposure -- sorry, the next paragraph -- inaccurate  
161:17 exposure classification can produce spurious results.  
161:18 The conventional thinking in epidemiology is that  
161:19 exposure misclassification will most often obscure  
161:20 exposure disease relationships.

161:21 Do you see that?

161:22 A. I do see that.

217:12 - 217:13

**Reeves, William 01-23-2019 (00:00:07)**

217:12 Q. I'm going to hand you the next document.

217:13 This is Exhibit 27?

218:2 - 218:12

**Reeves, William 01-23-2019 (00:00:15)**

218:2 Q. So you've seen this document before;  
218:3 right?

218:4 A. Yes, I have.

218:5 Q. This is a document from the EPA; correct?

218:6 A. That is correct.

218:7 Q. And it's -- the date on here is March 4th,  
218:8 1985; do you see that?

218:9 A. Yeah, stamped at the top.

218:10 Q. And it's titled consensus review of  
218:11 glyphosate; right?

218:12 A. That is correct.

218:15 - 219:10

**Reeves, William 01-23-2019 (00:00:44)**

218:15 Q. It's a document that Monsanto has  
218:16 considered in assessing its assessment of the safety of  
218:17 glyphosate?

218:18 A. That's correct.

218:19 Q. It reads on February 11th, 1985, a group  
218:20 of toxicology branch personnel met to evaluate and  
218:21 discuss the database on glyphosate, and in particular  
218:22 the potential oncogenic response of glyphosate.

218:23 Did I read that correctly.

218:24 A. That's correct.

219:1 Q. And then it says the following persons

219:2 were in attendance. Do you see that?

EDSBY 16A.3

REEVES\_DOWNSIDED\_0313

161

REEVES\_DOWNSIDED\_0314

EDSBY 305.1.1

EDSBY 305.1.2

REEVES\_DOWNSIDED\_0317

EDSBY 305.1.3

EDSBY 305.1.4

219:3 A. I do see that.

219:4 Q. And there are -- one, two, three, four,  
219:5 five, six, seven -- eight people listed. Do you see  
219:6 that?

219:7 A. I do see that.

219:8 Q. And by my count, there's -- one, two,  
219:9 three, four, five -- six different PhDs. Is that  
219:10 right?

219:11 - 220:23

**Reeves, William 01-23-2019 (00:01:12)**

219:11 A. Six -- yes, that's correct.

219:12 Q. And then there's a statistician in there?

219:13 A. That's correct.

219:14 Q. There's a DABT. Do you see that?

219:15 A. Yes, I do.

219:16 Q. What's a DABT?

219:17 A. That's a diplomate of the American Board  
219:18 of Toxicology.

219:19 Q. Is that a really fancy degree?

219:20 A. It is a certification you can get for  
219:21 taking a test.

219:22 Q. And that's specifically as it relates to  
219:23 toxicology?

219:24 A. It's typically about -- it focuses on how  
220:1 toxicology studies are conducted.

220:2 Q. Oh, okay. Well, that's appropriate.

220:3 We're dealing here with a toxicology study; right?

220:4 A. Yes, we are.

220:5 Q. And then you see it's actually signed by  
220:6 every one of those people. Do you see it?

220:7 A. Yes, I do see that.

220:8 Q. And one of them was obviously Dr. Dykstra;  
220:9 right?

220:10 A. That's right.

220:11 Q. And it says right underneath all their  
220:12 signatures, the signatures above indicate concurrence  
220:13 with this consensus report; right?

220:14 A. That's correct.

220:15 Q. And if we turn to Section E in this  
220:16 report, there is a classification of glyphosate. Do  
220:17 you see that?

220:18 A. I do see that.

220:19 Q. And it reads in accordance with EPA

220:20 proposed guidelines, the panel has classified

220:21 glyphosate as a Category C oncogen.

220:22 Do you see that?

220:23 A. I do see that.

222:4 - 222:5

**Reeves, William 01-23-2019 (00:00:06)**

222:4 Q. I'm giving you Exhibit 28. This is an

222:5 internal Monsanto document.

222:13 - 223:23

**Reeves, William 01-23-2019 (00:01:12)**

222:13 Q. So this is an internal Monsanto document.

222:14 It's dated February 22nd, 1985; correct?

222:15 A. Yes, that's correct.

222:16 Q. So this is after that February 11th, 1985,

222:17 consensus meeting; correct?

222:18 A. That's correct.

222:19 Q. And this was a document prepared in the

222:20 regular course of Monsanto's business; correct?

222:21 A. That's correct.

222:22 Q. And it says right here regarding meeting

222:23 February 21st, 1985. Do you see that?

222:24 A. I do see that.

223:1 Q. And it appears that there were different

223:2 people who were present at that meeting; right?

223:3 A. Yes, it lists a group of people.

223:4 Q. And it looks like there was people from

223:5 the EPA?

223:6 A. That's correct.

223:7 Q. And there were Monsanto employees;

223:8 correct?

223:9 A. That's correct.

223:10 Q. And one person by the name of Fred

223:11 Johannsen?

223:12 A. Yes, I see that name.

223:13 Q. And his initials would be F.J.; right?

223:14 A. Yes, that's correct.

223:15 Q. And in the document, it says the meeting

223:16 mood was relaxed, informal, and open. The toxicology

223:17 branch had decided on a course of action on February

223:18 11th.

REEVES\_COMBINED\_03\_18

Exhibit 28 1.1

REEVES\_COMBINED\_03\_18

Exhibit 28 1.8

Exhibit 28 1.9



223:19 Do you see that?

223:20 A. I do see that.

223:21 Q. That's referring specifically to that

223:22 consensus document we just looked at?

223:23 A. Yes.

224:18 - 226:9

**Reeves, William 01-23-2019 (00:01:17)**

REEVES\_COMBINED\_03.F1

224:18 Q. But anyway, if you turn the page, there is

ED087 08A.1

224:19 a section that says concerns of toxicology branch.

ED087 08A.3

224:20 Do you see that?

224:21 A. Yes, I see that.

ED087 08A.4

224:22 Q. And it says Dr. Farber opened the meeting

224:23 by reciting the conclusions of the toxicology branch

224:24 internal peer review. Do you see that?

225:1 A. I do see that.

ED087 08A.5

225:2 Q. And he says oncogenic in mouse, IARC

225:3 ranking C. Do you see that?

225:4 A. I do see that.

ED087 08A.6

225:5 Q. Possible human carcinogen, one of the

225:6 weaker ones by that system. Do you see that?

225:7 A. Yes, I do.

ED087 08A.7

225:8 Q. Company's letter was too weak to be

225:9 convincing. Did I read that right?

225:10 A. Yes, you did.

ED087 08A.8

225:11 Q. Biologically significant rare tumors. Do

225:12 you see that?

225:13 A. I do see that.

ED087 08A.9

225:14 Q. Statistically significant at an .05 level,

225:15 cited Tyrone at NTP. Do you see that?

225:16 A. I do see that.

225:17 Q. And NTP, that's the national toxicology

225:18 program?

225:19 A. That's correct.

ED087 08A.10

225:20 Q. Historical controls not helpful. Do you

225:21 see that?

225:22 A. I do see that.

ED087 08A.11

225:23 Q. And then it says will ask to resection

225:24 tissues, consider crystal formation, et cetera; right?

226:1 A. I do see that.

ED087 08A.1

226:2 Q. And then if we turn to the next page, Page

226:3 3. Are you there, sir?

226:4 A. Yes, I am.

226:5 Q. And then starting in the second paragraph,

226:6 F.J. summarized Monsanto's position forcefully and

226:7 well.

226:8 Do you see that?

226:9 A. I do see that.

227:3 - 228:2

**Reeves, William 01-23-2019 (00:01:06)**

227:3 Q. So below that it says I asked

227:4 Dr. Farber if he had heard anything today that would

227:5 cause him to desire an additional meeting with Monsanto

227:6 scientists. He said no.

227:7 Do you see that?

227:8 A. I do see that.

227:9 Q. I asked if F.J. -- I asked F.J. if he had

227:10 detected any areas where we would obviously want to

227:11 come in quickly and discuss. He said no.

227:12 Do you see that?

227:13 A. I do see that.

227:14 Q. And if you go down, there is a paragraph

227:15 that reads F.J. do you see that?

227:16 A. There are a few. Can you go ahead?

227:17 Q. Yeah, just go down the paragraph that

227:18 begins F.J. asked.

227:19 A. Okay.

227:20 Q. It says F.J. asked, quote, short of a new

227:21 study or finding tumors in the control groups, what can

227:22 we do to get this thing off Group C?

227:23 Do you see that?

227:24 A. Just making sure I understand the full

228:1 context of what they're talking about here. All right.

228:2 Yes, I do see that.

228:11 - 228:14

**Reeves, William 01-23-2019 (00:00:11)**

228:11 But it appears here that in a meeting with

228:12 the EPA, F.J. asked that short of finding a tumor in

228:13 the control group, what would get this thing off Group

228:14 C; correct.

228:17 - 229:10

**Reeves, William 01-23-2019 (00:00:36)**

228:17 A. He also asked -- so the full statement is

228:18 short of a new study, so he's asking either a new study

228:19 or if there was something else in the control groups.

228:20 That's what he's saying here.

228:21 Q. (By Mr. Wisner) That's right. At this  
228:22 point, the data from Bio/dynamics and the data that the  
228:23 EPA reviewed didn't have any tumors in the control  
228:24 group for the kidneys; right?

229:1 A. They did not, and there's a mention up  
229:2 here of an agreement -- or a suggestion to relook at  
229:3 tissues.

229:4 Q. Yeah, they're going to resection them;  
229:5 right?

229:6 A. Resection, let's take a look.

229:7 Q. That's right. But as of -- I mean, he's  
229:8 straight-up speculating, short of finding a new tumor,  
229:9 what's going to get it off Group C? That's what he  
229:10 says.

229:13 - 229:14 **Reeves, William 01-23-2019 (00:00:02)**

REEVES\_COMBINED\_03.F

229:13 A. That's not all that's there in that  
229:14 statement.

241:7 - 242:1 **Reeves, William 01-23-2019 (00:00:50)**

REEVES\_COMBINED\_03.F

241:7 Q. (By Mr. Wisner) So following this study  
241:8 and following that conversation that Monsanto had  
241:9 with the EPA that we discussed earlier, Monsanto hired  
241:10 a guy by the name of Dr. Marvin Kuschner; correct?

241:11 A. My understanding is that, yes, we did hire  
241:12 Dr. Kuschner.

241:13 Q. What was the purpose of Monsanto hiring  
241:14 him?

241:15 A. He was a pathologist.

241:16 Q. What did you want him to do?

241:17 A. A pathologist's job is to look at tissues  
241:18 from animal studies to understand is there evidence  
241:19 here of some disease outcome. Specifically Dr.  
241:20 Kuschner looked at slides from this mouse study to  
241:21 determine whether or not they were analyzed correctly  
241:22 to begin with.

241:23 Q. And you would agree it would be highly  
241:24 unscientific for him to have an opinion about what  
242:1 those slides say before looking at them?

242:4 - 242:13 **Reeves, William 01-23-2019 (00:00:15)**

REEVES\_COMBINED\_03.F

242:4 A. Is there a document that you would like to

Page/Line	Source	ID
	242:5 discuss?	
	242:6 Q. (By Mr. Wisner) I'm asking you an	
	242:7 opinion. It has nothing to do with a document.	
	242:8 A. I'm sorry, I can't guess at the answer to	
	242:9 what you're asking about. If you have a document, I'd	
	242:10 be happy to review it.	
	242:11 MR. WISNER: Okay, I'm going to have him	
	242:12 reask the question, and we'll see if you can answer it;	
	242:13 okay.	
242:14 - 242:15	<b>Reeves, William 01-23-2019 (00:00:06)</b>	REEVES_COMBINED_03_18
	242:14 [The pending question was read.	
	242:15 by the reporter.]	
242:18 - 242:24	<b>Reeves, William 01-23-2019 (00:00:09)</b>	REEVES_COMBINED_03_18
	242:18 A. So what I'm saying is if you have a	
	242:19 document discussing Dr. Kushner's views, I'd be happy	
	242:20 to look at it.	
	242:21 Q. (By Mr. Wisner) So you can't answer that	
	242:22 question without seeing a document?	
	242:23 A. I would like to see the document you're	
	242:24 referring to.	
243:22 - 244:1	<b>Reeves, William 01-23-2019 (00:00:13)</b>	REEVES_COMBINED_03_18
	243:22 So my question is this, sir. Is it	
	243:23 Monsanto's opinion that it would be appropriate for Dr.	
	243:24 Kushner to have an opinion about those slides before	
	244:1 seeing them.	
244:5 - 244:8	<b>Reeves, William 01-23-2019 (00:00:04)</b>	REEVES_COMBINED_03_18
	244:5 A. If you have a document describing Dr.	
	244:6 Kushner's views, I'd be happy to look at it.	
	244:7 Q. (By Mr. Wisner) So you can't answer that	
	244:8 question?	
244:10 - 244:13	<b>Reeves, William 01-23-2019 (00:00:07)</b>	REEVES_COMBINED_03_18
	244:10 A. Again, if you have a document describing	
	244:11 Dr. Kushner's views, I'd be happy to look at it.	
	244:12 Q. (By Mr. Wisner) Sir, please answer my	
	244:13 question. Can you answer the question or not?	
244:16 - 244:20	<b>Reeves, William 01-23-2019 (00:00:14)</b>	REEVES_COMBINED_03_18
	244:16 A. I'd be happy to discuss any document you	
	244:17 have describing Mr. -- Dr. Kushner's views.	
	244:18 MR. WISNER: Okay. So I'm just going to	
	244:19 make a formal objection that this witness has not	

Page/Line	Source	ID
244:21 - 244:21	244:20 responded to my question. <b>Reeves, William 01-23-2019 (00:00:01)</b>	REEVES_COMBINED_0334
246:3 - 246:12	244:21 Q. (By Mr. Wisner) Hand you Exhibit 30. <b>Reeves, William 01-23-2019 (00:00:11)</b>	REEVES_COMBINED_0335
	246:3 Q. You recognize this document?	EXHIBIT 306.1.1
	246:4 A. Yes, I do.	
	246:5 Q. Seen it before?	
	246:6 A. Yes, I have.	
	246:7 Q. This is an internal Monsanto document 246:8 dated April 3rd, 1985; correct?	EXHIBIT 306.1.2
	246:9 A. That's correct.	
	246:10 Q. So this is after that meeting with the 246:11 EPA?	
248:4 - 248:6	246:12 A. That's correct. <b>Reeves, William 01-23-2019 (00:00:05)</b>	REEVES_COMBINED_0336
	248:4 Q. And this document was created in the 248:5 regular course of Monsanto's business; correct?	EXHIBIT 306.1.3
	248:6 A. That's correct.	
248:11 - 249:4	<b>Reeves, William 01-23-2019 (00:00:41)</b>	REEVES_COMBINED_0337
	248:11 Q. And it reads, starting in the second 248:12 paragraph, senior management at EPA is reviewing a 248:13 proposal to classify glyphosate as a Class C possible 248:14 human carcinogen because of kidney adenomas in male 248:15 mice.	EXHIBIT 306.1.3
	248:16 Do you see that.	
	248:17 A. I do see that.	
	248:18 Q. Dr. Marvin Kushner will review kidney 248:19 sections and present his evaluation of them to the 248:20 EPA -- I'm sorry, to EPA in an effort to persuade the 248:21 agency that the observed tumors are not related to 248:22 glyphosate.	EXHIBIT 306.1.4
	248:23 Do you see that.	
	248:24 A. I do see that.	
	249:1 Q. So as of April 3rd, 1985, Monsanto is 249:2 going to be hiring Dr. Kushner is an effort to 249:3 persuade the agency that the tumors are not related to 249:4 glyphosate?	
249:7 - 249:15	<b>Reeves, William 01-23-2019 (00:00:29)</b>	REEVES_COMBINED_0338
	249:7 A. Yeah, I can't really speak to what Dr. 249:8 George Levinskas had in mind when he hired Dr.	

249:9 Kuschner. His statement here is to T. F. Evans. I  
 249:10 don't know what his conversation was with Dr. Kuschner.  
 249:11 Q. (By Mr. Wisner) I mean, we could  
 249:12 speculate, or we could read what he says; right? He  
 249:13 straight-up says right here in an effort to persuade  
 249:14 the agency that the observed tumors are not related to  
 249:15 glyphosate. That's what it says; right?

249:18 - 250:1

**Reeves, William 01-23-2019 (00:00:13)**

REEVES\_COMBINED\_03\_13

249:18 A. Again, these are words from George  
 249:19 Levinskas to T. F. Evans. Nothing here tells me what  
 249:20 the conversation was with Dr. Kuschner.  
 249:21 Q. (By Mr. Wisner) So that's April 3rd,  
 249:22 1985; right?

249:23 A. That's correct.

249:24 Q. I'm handing you Exhibit 31.

250:1 [Exhibit 31 marked for identification.]

250:2 - 251:4

**Reeves, William 01-23-2019 (00:01:11)**

REEVES\_COMBINED\_03\_11

250:2 Q. Have you seen this document before, sir?

250:3 A. Yes, I have.

250:4 Q. This is a document dated April 3rd, 1985;  
 250:5 right?

250:6 A. That's correct.

250:7 Q. Same date as the document we just looked  
 250:8 at?

250:9 A. That's correct.

250:10 Q. And it's a letter addressed to Dr. Marvin  
 250:11 Kuschner; correct?

250:12 A. Just make sure. It is directed -- it is  
 250:13 addressed to Dr. Kuschner.

250:14 Q. And it's from someone at the Bio/dynamics  
 250:15 lab?

250:16 A. Yeah, this is Knezevich, so this is one of  
 250:17 the authors, I believe, of the mouse study.

250:18 Q. And he says he's sending slides to -- God  
 250:19 bless you. He says here that he's sending slides to  
 250:20 Dr. Kuschner at the request of Dr. Long of Monsanto;  
 250:21 right?

250:22 A. That's correct.

250:23 Q. If you have any questions concerning the  
 250:24 shipment, please do not hesitate to contact me.

EXHIBIT 31A.1

Page/Line	Source	ID
251:1	Do you see that.	
251:2	A. Yes. He also acknowledges that he -- it	
251:3	contains slides of all kidney sections from all animals	
251:4	in the reference study.	
251:14 - 251:21	<b>Reeves, William 01-23-2019 (00:00:28)</b>	REEVES_COMBINED_03_41
251:14	Q. So if we compare the dates of the letter	
251:15	from Exhibit 30 and -- sorry -- the letter, which is	EXHIBIT 30A.3
251:16	Exhibit 31, with the memo from Monsanto, it appears	
251:17	that on the very date that Mr. Levinskis is saying that	
251:18	they're going to have Dr. Marvin Kuschner help them	
251:19	persuade the agency that the observed tumors are	EXHIBIT 30B.3
251:20	not related to glyphosate, they're actually sending the	
251:21	slides to Dr. Kuschner?	
251:24 - 252:7	<b>Reeves, William 01-23-2019 (00:00:21)</b>	REEVES_COMBINED_03_44
251:24	A. So the date of the letter from George	
252:1	Levinskis to T. F. Evans is the same as the date of the	
252:2	letter from Bio/dynamics to Dr. Kuschner.	
252:3	Q. (By Mr. Wisner) So unless George	1.44
252:4	"Kevinskis" somehow could see into the future, how	
252:5	could he possibly know that Dr. Kuschner would help	
252:6	them persuade the agency that the tumors were not	
252:7	related to the glyphosate?	
252:10 - 253:21	<b>Reeves, William 01-23-2019 (00:01:19)</b>	REEVES_COMBINED_03_43
252:10	A. I can't guess as to what was in George	
252:11	Levinskis's thoughts at that time.	
252:12	Q. (By Mr. Wisner) Beyond what he wrote?	
252:13	A. Yeah, all we have is what he wrote. We	
252:14	don't know that that's the conversation he had with Dr.	
252:15	Knezevich or Dr. Kuschner.	
252:16	Q. And if we look right here, at the back of	EXHIBIT 30A.1
252:17	it is a laboratory receipt. You see that?	
252:18	A. Yes, I do see that.	
252:19	Q. And we have a sign -- it's signed by	EXHIBIT 30A.3
252:20	Marvin Kuschner?	
252:21	A. Yes.	
252:22	Q. And it's actually on April 14th, 1985;	
252:23	right?	
252:24	A. That's correct.	
253:1	Q. It's 11 days after the memo by Mr.	
253:2	Levinskis?	

253:3 A. Yes, that's correct.

253:4 Q. So subsequent to this, Dr. Kuschner  
253:5 reviewed the kidney tumor slides; right?

253:6 A. Yes, that is correct.

253:7 Q. And he --

253:8 A. He actually looked at slides from all the  
253:9 kidneys --

253:10 Q. That's right.

253:11 A. -- just to understand if they were any.

253:12 Q. And he discovered a tumor in the control  
253:13 group; correct?

253:14 A. In addition to some others, yes.

253:15 Q. And Monsanto then had him prepare a  
253:16 report, and they submitted that report to the EPA;  
253:17 correct?

253:18 A. Yes. And that report showed the  
253:19 additional tumor in the control groups as well as some  
253:20 additional tumors that he found in the treated groups  
253:21 as well.

254:20 - 254:20

**Reeves, William 01-23-2019 (00:00:02)**

REEVES\_D001M02\_014

254:20 Q. I'm handing you Exhibit 32 to your

254:21 - 255:4

**Reeves, William 01-23-2019 (00:00:16)**

REEVES\_D001M02\_014

254:21 deposition, sir. Have you seen this document before?

EXHIBIT 32 1.1

254:22 A. Yes, I have.

254:23 Q. This is an internal Monsanto memorandum;  
254:24 correct?

EXHIBIT 32 1.2

255:1 A. Yes, it is.

255:2 Q. Provided -- prepared by or signed by Mr.  
255:3 Gingerich?

255:4 A. Yes, Lyle Gingerich.

255:7 - 256:6

**Reeves, William 01-23-2019 (00:00:51)**

REEVES\_D001M02\_014

255:7 He was the same person who prepared the  
255:8 memo regarding the EPA's meeting with Monsanto.

255:9 A. That's correct.

255:10 Q. This is dated August 20th, 1985. Do you  
255:11 see that?

255:12 A. Yes, I see that.

255:13 Q. And the first sentence of this memo reads  
255:14 if the results of the kidney resectioning do not

255:15 resolve the glyphosate issue with an OPP, we will be

EXHIBIT 32 1.3



Page/Line	Source	ID
	255:16 faced with an adverse OPP decision.	
	255:17 Do you see that.	
	255:18 A. I do see that.	
	255:19 Q. And OPP is a division within EPA that	
	255:20 stands for office of pesticide programs; correct?	
	255:21 A. That's correct.	
	255:22 Q. It is likely that OPP will ask the SAP for	EDSBY 516.1.4
	255:23 concurrence in this determination that there is a	
	255:24 treatment-related effect in the glyphosate mouse study.	
	256:1 Do you see that.	
	256:2 A. I do see that.	
	256:3 Q. And the SAP is a scientific advisory	
	256:4 panel; right?	
	256:5 A. That is my understanding of how they use	
	256:6 that term.	
256:12 - 256:15	<b>Reeves, William 01-23-2019 (00:00:06)</b>	REEVES_DOWNING_03.47
	256:12 The SAP is a group of scientists that	
	256:13 review things for the EPA.	
	256:14 A. That's right, who don't work for the	
	256:15 agency.	
257:21 - 258:1	<b>Reeves, William 01-23-2019 (00:00:10)</b>	REEVES_DOWNING_03.48
	257:21 Q. In any event, Mr. Gingerich is talking	EDSBY 516.1.3
	257:22 about changing the focus of the SAP to that question;	
	257:23 correct?	
	257:24 A. That is the question that Mr. Gingerich is	
	258:1 asking in this letter.	
258:8 - 259:1	<b>Reeves, William 01-23-2019 (00:00:46)</b>	REEVES_DOWNING_03.49
	258:8 Q. And he goes, if so, I recommend we bring	EDSBY 516.1.8
	258:9 all 10 of the toxicologists to the SAP meeting. There	
	258:10 is a tendency to, quote, count the votes, end quote, at	
	258:11 SAP meetings. We can make a difference by lining up a	
	258:12 large number of experts on our side.	
	258:13 Do you think -- you see that.	
	258:14 A. I do see that.	
	258:15 Q. And then it goes on, Dr. Moore and Dr.	EDSBY 516.1.7
	258:16 Farber may be misreading the consensus of their	
	258:17 professional colleagues on this issue. With the	
	258:18 importance of this decision to Monsanto, I don't think	
	258:19 we can leave any doubts in the minds of the EPA or SAP	
	258:20 of what the consensus of the professional toxicologists	

258:21 is on this issue.

258:22 Do you see that.

258:23 A. I do see that.

258:24 Q. So this appears to be a strategy to line

259:1 up a series of experts to appear at the SAP; correct?

259:4 - 259:8

**Reeves, William 01-23-2019 (00:00:16)**

REEVES\_COMBINED\_03\_38

EXHIBIT 316.1.A

259:4 A. What he does is he starts -- Lyle

259:5 Gingerich has set up this question of are there 10

259:6 respected toxicologists who agree with us, and then he

259:7 goes on to speculate about what you could do if you had

259:8 such a group, and so that's really all he's doing.

259:22 - 260:2

**Reeves, William 01-23-2019 (00:00:15)**

REEVES\_COMBINED\_03\_31

259:22 Monsanto believed at this time that it was

259:23 important to identify and contact these potential

259:24 experts and make sure that they could testify on behalf

260:1 of Monsanto at the EPA and at the SAP to say that

260:2 glyphosate's not oncogenic; correct.

260:5 - 260:7

**Reeves, William 01-23-2019 (00:00:08)**

REEVES\_COMBINED\_03\_34

260:5 A. Yeah, I would be guessing as to whether or

260:6 not Monsanto at this time shared the opinion of Dr.

260:7 Gingerich. He's expressing his own views here.

263:1 - 263:3

**Reeves, William 01-23-2019 (00:00:06)**

REEVES\_COMBINED\_03\_33

EXHIBIT 33

263:1 Q. (By Mr. Wisner) Just handed you Exhibit

263:2 33. Please let me know when you feel free you can talk

263:3 about it.

263:4 - 264:6

**Reeves, William 01-23-2019 (00:00:53)**

REEVES\_COMBINED\_03\_34

263:4 [Exhibit 33 marked for identification.]

263:5 A. All right.

263:6 Q. You had a chance to review it?

263:7 A. Yes, I have.

263:8 Q. So this is an internal Monsanto document;

263:9 correct?

263:10 A. That's correct.

263:11 Q. It's dated August 28th, 1985?

263:12 A. That's correct.

263:13 Q. Six days after the last document we saw?

263:14 A. That's correct.

263:15 Q. And this was a document that was prepared

263:16 in Monsanto's regular and ordinary course of business?

263:17 A. That's correct.

263:18 Q. And it appears, if you look at the back,  
263:19 to be written by a person named Frank Serdy?

263:20 A. Yes, that's correct.

263:21 Q. Do you recall who Frank Serdy was?

263:22 A. My understanding is that Frank Serdy was  
263:23 in our toxicology group.

263:24 Q. And he's writing to Tim Long. Do you see  
264:1 that?

264:2 A. Or act -- you know what, I believe he may  
264:3 have been in government affairs. So we'd have to -- we  
264:4 could double-check on that.

264:5 Q. Well, he worked at Monsanto; right?

264:6 A. He was a Monsanto employee, yes.

264:9 - 266:11

**Reeves, William 01-23-2019 (00:02:04)**

264:9 Q. And he writes the news you relayed to us  
264:10 on the preliminary results of the resections was very  
264:11 encouraging. We continue to believe that the result of  
264:12 all of these effort will be that glyphosate is not  
264:13 shown to be oncogenic.

264:14 Do you see that.

264:15 A. That's correct.

264:16 Q. And then he goes on, we now feel it is  
264:17 important to begin to make plans and begin to prepare  
264:18 our strategy on how we will both submit the results and  
264:19 respond if the EPA does not accept our results.

264:20 Do you see that.

264:21 A. I do see that.

264:22 Q. We ask your cooperation with the  
264:23 following, colon. Do you see that, sir?

264:24 A. I do see that.

265:1 Q. So it appears that he's going to discuss  
265:2 Monsanto's plans and strategies; right?  
265:3 A. He says it's to begin to make -- it is  
265:4 important to begin to make plans, begin to prepare our  
265:5 strategy.

265:6 Q. So he's talking about plans and strategy;  
265:7 right?

265:8 A. Yes, he is talking about plans and  
265:9 strategies.

265:10 Q. Number 1, we continue to feel it is

EDSBY 011.A.2

EDSBY 011.1

REEVES\_COMBINED\_03.03

EDSBY 011.1.2

EDSBY 011.1.3

EDSBY 011.1.4

265:11 important to identify and contact those outside, quote,  
 265:12 experts, unquote, who we feel would testify on our  
 265:13 behalf both to EPA and SAP that, based on the results,  
 265:14 glyphosate is not oncogenic.

265:15 Do you see that.

265:16 A. Yes, I do.

265:17 Q. And then Number 2, we do not have a lot of  
 265:18 faith that, presented with the same evidence, Ted  
 265:19 Farber will want to back off and change his mind.

265:20 Did I read that right.

265:21 A. That is correct.

265:22 Q. Ted Farber, he was the head of the OPP at  
 265:23 the EPA; correct?

265:24 A. I'd have to go back and check. He was --  
 266:1 I know he was with the EPA.

266:2 Q. He was somebody with the EPA?

266:3 A. He was with the EPA.

266:4 Q. Hence we feel that it is equally as  
 266:5 important to identify and contact, quote, experts,  
 266:6 unquote, in the area of statistics who would be willing  
 266:7 to testify both to the EPA and SAP that 1-0-1-3 cannot  
 266:8 be considered significant. Also we will need opinions  
 266:9 on the proper way to handle historical controls.

266:10 Do you see that.

266:11 A. I do see that.

269:11 - 270:3

**Reeves, William 01-23-2019 (00:00:38)**

269:11 Q. (By Mr. Wisner) All right, Doctor, I've  
 269:12 handed you a document, Exhibit 34 to your deposition.

269:13 Do you recognize this document?

269:14 [Exhibit 34 marked for identification.]

269:15 A. Yes, I do.

269:16 Q. This is a document. It's been produced by  
 269:17 Monsanto in this litigation, and it's in a memo from  
 269:18 the Environmental Protection Agency. Do you see that?

269:19 A. I do see that.

269:20 Q. And it's dated December 12th, 1985; right?

269:21 A. That's correct.

269:22 Q. So this is after those internal memos that  
 269:23 we reviewed from Monsanto; correct?

269:24 A. Yes.

270:1 Q. And as you can see, it is from William  
270:2 Dykstra, a PhD at the EPA?

270:3 A. That's correct.

270:10 - 274:5

**Reeves, William 01-23-2019 (00:03:40)**

270:10 Q. And this was a document that Monsanto had  
270:11 obviously reviewed and considered as part of its  
270:12 understanding of the regulatory history of Roundup?

270:13 A. That's correct.

270:14 Q. Background. Glyphosate was considered  
270:15 oncogenic in male mice, causing renal tubule adenomas,  
270:16 a rare tumor, in a dose-related manner. The incidence  
270:17 of this tumor was zero, zero, one, and three in the  
270:18 control, low-, mid-, and high-dose groups respectively.  
270:19 Do you see that?

270:20 A. Yes, I do.

270:21 Q. And this is what this is referring to --  
270:22 is typically in these sort of animal carcinogenicity  
270:23 studies, there are four separate groups; right?

270:24 A. Yes, that's typical.

271:1 Q. The first group is the control group;  
271:2 right?

271:3 A. That's right.

271:4 Q. They don't get exposed to the chemical?

271:5 A. That's right.

271:6 Q. And then you have a low-dose, a mid-dose,  
271:7 and a high-dose group; right?

271:8 A. That's correct.

271:9 Q. And one of the things you're looking at  
271:10 is, because it's in a laboratory, everything is highly  
271:11 controlled -- you use that control to sort of compare  
271:12 the rodents that are exposed to the chemical to the  
271:13 ones that are not; right?

271:14 A. That's correct.

271:15 Q. And this reference to zero, zero, one,  
271:16 three, that's referring to the incidence of the kidney  
271:17 tumors that we were discussing in the original review?

271:18 A. That's correct.

271:19 Q. And it goes on. Additional evaluation of  
271:20 all original renal sections identified a small renal  
271:21 tubular in one control male, Animal Number 1028, which

REEVES\_COMBINED\_03.F17

000001.F17

000001.F17

271:22 was not diagnosed as such in the original pathology  
271:23 report.

271:24 Do you see that?

272:1 A. Yes, I do.

272:2 Q. Subsequently -- sorry -- so it's talking  
272:3 about the identification of this new tumor in -- sorry,  
272:4 I shouldn't say new tumor. I'm not trying to  
272:5 suggest -- so what he's saying here is they've  
272:6 identified a potential tumor in the control group;  
272:7 correct?

272:8 A. Yes, that they have -- essentially when  
272:9 they went back, they looked at the control animals,  
272:10 looked at their kidneys, they found an additional tumor  
272:11 there that they had not noticed previously.

272:12 Q. Goes on, subsequently, toxicology  
272:13 branch recommended that additional renal sections be  
272:14 cut and evaluated from all control in  
272:15 glyphosate-treated male mice. See that?

272:16 A. Yes, I do.

272:17 Q. And so that's your understanding? The EPA  
272:18 went back and recut all of the tissues in the kidneys  
272:19 for the male mice.

272:20 A. They made that actually a requirement for  
272:21 Monsanto. So we had the laboratory -- let's resection  
272:22 these tissues and then have a pathology working group  
272:23 take a look at them.

272:24 Q. This review contains the evaluation of the  
273:1 submitted results of the additional sectioning in  
273:2 pathological data. See that?

273:3 A. I do see that.

273:4 Q. On the second page is the conclusion. Do  
273:5 you see that?

273:6 A. Yes, I do see that.

273:7 Q. The results of the additional pathological  
273:8 evaluation on recut kidney sections in male mice  
273:9 demonstrated no additional tumors were present. Do you  
273:10 see that?

273:11 A. I do see that.

273:12 Q. And then if you go down, you see the  
273:13 actual review section of his document. You see that?

273:14 A. I do see that.

273:15 Q. And again, it reflects zero in the  
273:16 control, zero in the low dose, one in the mid dose, and  
273:17 three in the high dose; correct?

273:18 A. I do see that.

273:19 Q. And then it goes, the additional tumor in  
273:20 the control group, which had been diagnosed from the  
273:21 reevaluation of the original slides, was not present in  
273:22 the recut kidney sections. Do you see that?

273:23 A. I do see that statement.

273:24 Q. So they went back and they recut it and  
274:1 they didn't see this tumor in the control group?

274:2 A. That's right. So this is prior to the  
274:3 path -- the -- yeah, the independent pathology working  
274:4 group, who looked at the slides without any information  
274:5 about which one was which.

274:6 - 274:8 **Reeves, William 01-23-2019 (00:00:05)**

274:6 Q. So as Monsanto predicted, there was in  
274:7 fact a scientific advisory panel convened; correct?

274:8 A. Yes. And this was following the discovery

274:9 - 274:10 **Reeves, William 01-23-2019 (00:00:06)**

274:9 by the pathology working group, and their conclusion  
274:10 that indeed these tumors were there.

275:4 - 275:19 **Reeves, William 01-23-2019 (00:00:40)**

275:4 Q. And just for the jury's understanding, a  
275:5 scientific advisory panel -- what happened there was  
275:6 various people testified about this issue related to  
275:7 the mouse study?

275:8 A. So I can speak to generally at a science  
275:9 advisory panel, EPA brings independent scientists in,  
275:10 they want them to essentially conduct a peer review of  
275:11 the agency's work and then provide feedback on what  
275:12 needs improvement, clarification, anything like that.

275:13 Q. Exactly. And at this meeting, Monsanto  
275:14 sends people to represent its interests; right?

275:15 A. Yes. Anyone they send -- anyone may go  
275:16 and comment publicly.

275:17 Q. Exactly. And then the EPA sends  
275:18 scientists as well to testify?

275:19 A. That's correct.

Page/Line	Source	ID
283:6 - 283:16	<b>Reeves, William 01-23-2019 (00:00:18)</b>	REEVES_COMBINED_03_01
	283:6 Q. This is a guidance document for 283:7 glyphosate; right?	EXHIBIT 514.1.1
	283:8 A. Yes.	
	283:9 Q. From the EPA?	
	283:10 A. That is correct.	
	283:11 Q. Dated June 1986; right?	EXHIBIT 514.1.2
	283:12 A. That's correct.	
	283:13 Q. Just about five months after the SAP 283:14 meeting?	
	283:15 A. Let me just make sure of the date. About 283:16 four months.	
285:4 - 285:4	<b>Reeves, William 01-23-2019 (00:00:01)</b>	REEVES_COMBINED_03_02
	285:4 Q. Turn to Page 6. You there?	EXHIBIT 514.1.1
285:5 - 288:4	<b>Reeves, William 01-23-2019 (00:02:44)</b>	REEVES_COMBINED_03_03
	285:5 A. Yes, I am.	
	285:6 Q. And this is describing the mouse study; 285:7 right?	
	285:8 A. At the very top?	
	285:9 Q. Yeah. The first paragraph.	
	285:10 A. Yes.	
	285:11 Q. It goes on. It says the chronic 285:12 feeding/oncogenicity study in mice tested dosages of 285:13 1,000, 5,000, and 30,000 parts per million. Glyphosate 285:14 produced an equivocal oncogenic response in the mouse, 285:15 causing a slight increase in the incidence of renal 285:16 tubular adenomas -- benign tumor in the kidney -- in 285:17 males at the highest dose treated of 30,000 PPM. See 285:18 that?	EXHIBIT 514.1.2
	285:19 A. Yes, I do.	
	285:20 Q. Toxicology branch ad hoc oncogenicity 285:21 committee tentatively classified glyphosate as a Class 285:22 C oncogen. See that?	EXHIBIT 514.1.3
	285:23 A. I do see that.	
	285:24 Q. The studies were reexamined by a 286:1 consulting pathologist and data were submitted 286:2 indicating that an additional kidney tumor had been 286:3 found in the control males. No renal tumors were found 286:4 in controls in the original examination. You see that?	
	286:5 A. Yes, I do.	



286:6 Q. And that consulting pathologist was Dr.  
286:7 Kuschner; right?

286:8 A. Yes.

286:9 Q. The agency then requested that additional  
286:10 kidney sections from the mouse study be prepared and  
286:11 examined. You agree with that; right?

286:12 A. I do see that, yes.

286:13 Q. The resultant microslides were examined by  
286:14 a number of pathologists. Those examinations revealed  
286:15 no additional tumors, but confirmed the presence of the  
286:16 tumors identified in the original study report.

286:17 Do you see that?

286:18 A. I do see that.

286:19 Q. The apparent lesion in the control kidney  
286:20 was not present in any of the additional sections.  
286:21 After examination of the slides, the agency concluded  
286:22 that this lesion did not represent a pathologically  
286:23 significant change.

286:24 Do you see that?

287:1 A. I do see that.

287:2 Q. So that was the agency's conclusion about  
287:3 this tumor in the control slide?

287:4 A. Yeah, this is their account of the  
287:5 historical information regarding that.

287:6 Q. So then it goes on in the bottom paragraph  
287:7 specifically discussing the SAP. Do you see that?

287:8 A. I do see that.

287:9 Q. And if you turn to the next page, this is  
287:10 what I wanted to get at. Let me know when you're  
287:11 ready.

287:12 A. Yes, I am.

287:13 Q. It reads, after consideration of the  
287:14 expert opinion of the SAP and reconsideration of all  
287:15 relevant data for this compound, in particular the  
287:16 statistical assessment provided by the SAP, the agency  
287:17 agrees that available data are not sufficient to  
287:18 adequately address the question of whether the apparent  
287:19 effects noted in the mouse study are biologically  
287:20 relevant. Therefore, in order to fully address this  
287:21 question, the agency is requiring that this study be

287:22 repeated with a larger number of animals in each test  
 287:23 group so that the statistical power of the study is  
 287:24 increased.

288:1 Do you see that?

288:2 A. I do see that.

288:3 Q. So the agency did in fact require an

288:4 additional study?

288:7 - 288:8

**Reeves, William 01-23-2019 (00:00:02)**

REEVES\_COMBINED\_03\_04

288:7 A. So what they're saying is the agency is

288:8 requiring.

288:10 - 288:17

**Reeves, William 01-23-2019 (00:00:20)**

REEVES\_COMBINED\_03\_05

288:10 A. Well, it would come in the forms -- so

288:11 earlier on this document discusses data call-in, so

288:12 that's the mechanism by which they would do it. This

288:13 could be -- this document would be recounting perhaps

288:14 conversations that the agency has had, but it's the

288:15 official data call-in authority that the agency uses to

288:16 say submit a study. So that would be a separate

288:17 document.

289:13 - 289:14

**Reeves, William 01-23-2019 (00:00:03)**

REEVES\_COMBINED\_03\_06

289:13 Q. I'm handing you a document, Exhibit 37 to

289:14 your deposition.

289:20 - 291:12

**Reeves, William 01-23-2019 (00:01:23)**

REEVES\_COMBINED\_03\_07

289:20 Q. So you've seen this document before?

289:21 A. Yes, I have.

289:22 Q. This is an internal Monsanto memo;

289:23 correct?

289:24 A. That is correct.

290:1 Q. And it's dated August 28th, 1986?

290:2 A. That's correct.

290:3 Q. Month or so after the registration

290:4 document?

290:5 A. About two months.

290:6 Q. And it -- I mean, it says subject,

290:7 glyphosate registration standard. Do you see that?

290:8 A. I do see that.

290:9 Q. And this was written by Timothy Long. Do

290:10 you see that?

290:11 A. Yes, I see T. J. Long as he signed it --

290:12 Timothy J., yes.

EXHIBIT 37A.1

EXHIBIT 37A.2

290:13 Q. And this was a document made in the  
290:14 regular course of Monsanto's business; right?

290:15 A. That's correct.

290:16 Q. He writes, after reviewing the referenced  
290:17 document, I would like to make the following  
290:18 suggestions for our response to the requirements for  
290:19 additional testing. Do you see that?

290:20 A. I do see that.

290:21 Q. And the first section is rat and mouse  
290:22 oncogenicity studies. See that?

290:23 A. Yes, I do.

290:24 Q. And it says several approaches could be  
291:1 taken; right?

291:2 A. That's correct.

291:3 Q. First approach is, present arguments for  
291:4 not repeating either study based on the principles  
291:5 discussed in the agency's MTD position paper,  
291:6 attachment one. See that?

291:7 A. Yes, I do.

291:8 Q. Option 2, agree to repeat the rat study  
291:9 and vehemently argue the lack of justification for a  
291:10 repeat mouse study. See that?

291:11 A. I do see that.

291:12 Q. And then Option 3 -- it's on the third

291:13 - 291:17

**Reeves, William 01-23-2019 (00:00:08)**

291:13 page. You see that?

291:14 A. Yes, I do.

291:15 Q. Repeat only the mouse study and only to a  
291:16 maximum dosage level of 7,000 PPM. You see that?

291:17 A. I do see that.

292:6 - 293:4

**Reeves, William 01-23-2019 (00:01:02)**

292:6 7,000 PPM is less than a  
292:7 third of what the Knezevich and Hogan study had;  
292:8 correct?

292:9 A. That is correct, but I think it's  
292:10 important to have that context of they're saying this  
292:11 is already wildly above any human exposure.

292:12 Q. Number 4, as a final fallback position if  
292:13 necessary, we could agree to repeat the oncogenic rat  
292:14 study as discussed in Point 2 above and agree to a

EDHBT 913.13

EDHBT 913.14

EDHBT 913.3

EDHBT 913.1

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EDHBT 913.3

292:15 partial mouse oncogenicity repeat. Do you see that?

292:16 A. I do see that.

292:17 Q. Last sentence, I feel this should be the

292:18 last and least desirable position that we should take

292:19 on the issue of repeat studies. Do you see that?

292:20 A. I do see that. And he provides the

292:21 context in the middle.

292:22 Q. So he's discussing all these potential

292:23 options that Monsanto can take regarding

292:24 the requirement that Monsanto do another rat and mouse

293:1 study; right?

293:2 A. They're providing a series of options we

293:3 have to provide additional data to make sure EPA has an

293:4 accurate assessment of this molecule.

742:15 - 743:9

**Reeves, William 01-24-2019 (00:00:35)**

742:15 Q. Okay. Let me -- let's -- we'll come

742:16 back to some other issues about Roundup and its

742:17 safety in a little while but I want to get into a

742:18 little of your personal background.

742:19 A. Okay.

742:20 Q. Let's start with your education.

742:21 Where did you go to college?

742:22 A. At the University of Missouri.

742:23 Q. What was your degree in at the

742:24 University of Missouri?

742:25 A. It was a Bachelor's of Science in

743:1 biology.

743:2 Q. Did you get a -- a subsequent degree?

743:3 A. Yes, I did.

743:4 Q. What was the subsequent degree?

743:5 A. That was a PhD in toxicology from

743:6 Texas A&M University.

743:7 Q. Did you get the -- your PhD in

743:8 toxicology in 2000?

743:9 A. I did.

744:17 - 750:24

**Reeves, William 01-24-2019 (00:06:35)**

744:17 Q. (BY MR. BRENZA) What was the next

744:18 job you had?

744:19 A. Following that, I worked for the

744:20 University of Missouri, and that was as an

744:21 environmental health technician.

744:22 Q. And was that in -- from 1995 to 1996?

744:23 A. That's correct.

744:24 Q. What did you do as an environmental

744:25 health technician at the University of Missouri?

745:1 A. I -- I had two parts to that role.

745:2 One was doing fire and safety inspections in

745:3 laboratories, and then the other one was hazardous

745:4 materials management. And so that was any kind of

745:5 hazardous material that laboratories or farms would

745:6 have and we would help them make sure it was being

745:7 handled appropriately.

745:8 Q. What was the next job you had?

745:9 A. Following that I was a research -- a

745:10 graduate research associate at Texas A&M University

745:11 as part of going to graduate school there.

745:12 Q. So that was from 1996 to about 2000?

745:13 A. That's correct.

745:14 Q. What did you do as a graduate

745:15 research assistant at Texas A&M University?

745:16 A. So mainly what you're doing in those

745:17 roles is conducting research, you know, that earns

745:18 you your PhD, and so I had two aspects of my

745:19 research. We were trying to understand could there

745:20 be refinements to risk assessments for -- for

745:21 contaminated sites, specifically sites contaminated

745:22 with petroleum products. Would there be any way to

745:23 understand which sites needed clean up the most.

745:24 You know, right now, and at that

745:25 time, it was analytical data. Say you have this

746:1 many contaminants of this type, the one with the

746:2 most has the most priority.

746:3 We were trying to understand is there

746:4 a better way to score that, you know, are these

746:5 materials binding to soil. You know, these are

746:6 present as a mixture. Is there something about

746:7 those mixtures that we could understand that would

746:8 help say this one is more important than that one.

746:9 Q. So you mentioned mixtures. Was part

746:10 of your job there to evaluate the behavior of

746:11 mixtures in a toxicological way?

746:12 A. Yes, it was.

746:13 Q. Did you reach conclusions about the

746:14 hydrocarbon mixtures that you were working with,

746:15 about how they behaved as mixtures?

746:16 A. Yes, we did. So the conclusion was

746:17 that the -- what we were doing was separating them

746:18 out, you know, so there were components of these

746:19 mixtures, certain chemicals that are alike, they're

746:20 part of the same class.

746:21 We would separate those and then do

746:22 studies with them to understand, do the activities

746:23 of the individual mixture components predict

746:24 overall mixture toxicity. And our conclusion was

746:25 yes, they did.

747:1 Q. Did you reach conclusions generally

747:2 about the toxicological properties of mixed

747:3 compounds as a result of your work?

747:4 A. Yes, my -- my hope was that I'd be

747:5 able to find that there was some sort of

747:6 interaction that we didn't know about that needed

747:7 to be accounted for, but I did not. And one of the

747:8 things I learned as part of that is such

747:9 interactions are rare.

747:10 Q. And when you say "such interactions

747:11 are rare," what does that tell you about how

747:12 mixtures or formulations behave relative to their

747:13 components?

747:14 A. So based on our understanding of that

747:15 and other information from the scientific

747:16 literature, it -- it tells us that, you know,

747:17 generally speaking, when I have two substances or

747:18 more substances where I know about how they behave

747:19 in the body, that is going to be predictive of how

747:20 the mixture itself behaves overall in the body.

747:21 Q. What was the next position you worked

747:22 in?

747:23 A. After that I was a postdoctoral

747:24 researcher at the University of California at

747:25 Davis.

748:1 Q. And what did you do there?

748:2 A. At -- at UC Davis I was a -- I was

748:3 working with the entomology department and the  
748:4 toxicology department. The idea was we wanted to  
748:5 be able to determine the amino acid sequence of  
748:6 very small amounts of protein.

748:7 We have -- we had the, at that time,

748:8 we had the ability to isolate small proteins, you  
748:9 know, ones that are being used in signaling, that  
748:10 are only present for a short period of time in the  
748:11 cell, and the idea was if you could isolate those  
748:12 and then sequence them, you could understand more  
748:13 about how they functioned, how they were encoded in  
748:14 DNA.

748:15 Q. What was the -- so after you finished  
748:16 your postdoc research efforts, what was the next  
748:17 job you had?

748:18 A. Then I -- after that I worked for the  
748:19 California EPA, and this was for the State Water  
748:20 Resources Control Board. I was an environmental  
748:21 scientist but my focus was on fresh water  
748:22 standards.

748:23 Q. What -- what office of the California  
748:24 EPA did you work at?

748:25 A. So that was the State Water Resources  
749:1 Control Board. This is the over -- this is the  
749:2 office within California EPA that's responsible for  
749:3 protecting water quality across the state.

749:4 Q. And was there a physical location  
749:5 where you worked?

749:6 A. Yes. That was in Sacramento.  
749:7 Downtown Sacramento.

749:8 Q. Did you live near -- near where you  
749:9 were working?

749:10 A. I did. I lived in Woodland -- well,  
749:11 at first I lived in Davis. And then we moved -- my  
749:12 wife and I moved to Woodland in 2002.

749:13 Q. And are Woodland and Davis, they --  
749:14 they are both close to San Francisco, west of San  
749:15 Francisco? Or east? East of San Francisco?

749:16 A. East, yeah, east of San Francisco.

749:17 Q. Yeah. West is in the ocean.

749:18 A. It's a little tough out there. And

749:19 they are --

749:20 MR. WISNER: It's in the bay.

749:21 A. They -- yeah, they are. They're

749:22 about two miles east of San Francisco. Or I'm

749:23 sorry, two hours.

749:24 Q. (BY MR. BRENZA) So you were working

749:25 in, at the California EPA on fresh water standards.

750:1 How -- how did that -- what exactly did you do with

750:2 respect to protecting the clean water of

750:3 California?

750:4 A. We had two functions in our group and

750:5 -- and I worked on both. One was developing new

750:6 water quality standards, you know, whether there --

750:7 there was one that the state was proposing to come

750:8 up with itself. So this would be, you know, a -- a

750:9 limit on some pollutant in water when I -- I worked

750:10 on a heavy metal called selenium, was one of them.

750:11 The other part of it -- so that was, let's -- you

750:12 know, we were adopting a new water quality standard

750:13 or -- or number for a contaminant.

750:14 The other half of it was reviewing

750:15 actions by the Regional Water Quality Control

750:16 Boards. They are the part of the -- of Cal EPA

750:17 that issues permits, say to a -- a wastewater

750:18 discharge. Like a sewage treatment plant. And if

750:19 the entities they had issued the permit to

750:20 disagreed with the permit, they could appeal to the

750:21 state and then I would provide a technical review

750:22 of the complaint and the response to it.

750:23 Q. About how long did you work

750:24 protecting California's clean water?

751:3 - 751:4 **Reeves, William 01-24-2019 (00:00:01)**

751:3 A. It was about two years and eight

751:4 months.

764:11 - 766:17 **Reeves, William 01-24-2019 (00:02:31)**

764:11 Q. What was the next position you held

764:12 at Monsanto?

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764:13 A. Starting in November of 2018, I  
764:14 joined our agricultural affairs and sustainability  
764:15 team and in that -- in that organization I am the  
764:16 global health and safety issues management lead.  
764:17 And so it's -- it's similar to the work I was doing  
764:18 before but it has a -- responsibilities across our  
764:19 portfolio of products rather than just crop  
764:20 protection alone.

764:21 Q. Okay. So let's -- let's discuss a  
764:22 little bit about glyphosate itself.

764:23 A. Sure.

764:24 Q. Is glyphosate an herbicide?

764:25 A. Yes, it is.

765:1 Q. What is an herbicide?

765:2 A. Those are -- herbicides are molecules  
765:3 that you can use or a chemical you can use to kill  
765:4 a weed.

765:5 Q. What's the a -- what's the history in  
765:6 -- of the -- of realizing the weed control  
765:7 potential of glyphosate?

765:8 A. This is a molecule that Monsanto  
765:9 initially discovered its weed control properties.  
765:10 Other companies had developed ways to synthesize  
765:11 glyphosate over the years as part of their own work  
765:12 but they did not realize it could work as a  
765:13 herbicide.

765:14 Monsanto, as part of research into  
765:15 herbicidal compounds, was synthesizing molecules,  
765:16 looking at different ideas we had internally about  
765:17 would -- trying to answer the question of would  
765:18 this chemical structure work as a herbicide. And  
765:19 after a few rounds of work, glyphosate was  
765:20 identified and it was tested under greenhouse  
765:21 conditions and found to actually be effective.

765:22 Q. Who discovered the herbicidal  
765:23 properties of glyphosate?

765:24 A. It was Dr. John Franz.

765:25 Q. When did he make that discovery?

766:1 A. That was in -- he was doing the  
766:2 synthesis work and I believe the -- the discovery

766:3 of its -- of its ability to act as a herbicide was  
766:4 1970.

766:5 Q. Was there anything unusual about the  
766:6 herbicidal properties of glyphosate?

766:7 A. Yes. Glyphosate was act --  
766:8 glyphosate acts on a broad spectrum of weeds, so  
766:9 that means it kills grasses as well as broadleaves,  
766:10 which are the plants like clover. It also acts  
766:11 systemically. So when it's absorbed by the plant,  
766:12 it goes down to the root and it can kill a weed at  
766:13 the root so it won't grow back.

766:14 And this -- this combination is --  
766:15 I'm not sure there was another product on the  
766:16 market like that at the time, and I don't believe  
766:17 there is now.

766:23 - 767:15

**Reeves, William 01-24-2019 (00:00:43)**

REEVES\_COMBINED\_0374

766:23 Let me -- well, let me ask you this. What happens  
766:24 to glyphosate once it's sprayed and does its job  
766:25 killing weeds?

767:1 A. There -- there are two things that  
767:2 can happen to it. One, it'll be degraded by  
767:3 bacteria or fungus in the soil. The other thing is  
767:4 that it -- it can bind to soil, so it will actually  
767:5 just physically, you know, form a very strong  
767:6 attraction to a soil particle or even just bond  
767:7 with it.

767:8 Q. And why is that good?

767:9 A. And that -- that means it's not going  
767:10 to be, you know, running off or leaching into  
767:11 groundwater. And then the fact that it -- that it  
767:12 actually is broken down by soil bacteria or fungus  
767:13 means it's not going to accumulate in the food  
767:14 chain. You're not going to see it, you know, over  
767:15 time building up in people or the environment.

769:2 - 769:10

**Reeves, William 01-24-2019 (00:00:22)**

REEVES\_COMBINED\_0375

769:2 Q. Was the discovery of glyphosate and  
769:3 the safety testing that accompanied it, did that  
769:4 result in glyphosate being registered for use in --  
769:5 in various countries?

769:6 A. That's correct.

769:7 Q. Was it registered for use in the  
769:8 United States?

769:9 A. Yes, in the United States in 1975,  
769:10 with the first sales occurring in 1976.

776:7 - 776:12

**Reeves, William 01-24-2019 (00:00:11)**

REEVES\_COMBINED\_03\_71

776:7 Q. (BY MR. BRENZA) So, Doctor, I want  
776:8 to pick up where we left off. We were going to  
776:9 talk about the benefits of glyphosate and Roundup  
776:10 for landscaping use at home.

776:11 A. Yes.

776:12 Q. Okay.

776:15 - 777:6

**Reeves, William 01-24-2019 (00:00:37)**

REEVES\_COMBINED\_03\_71

776:15 Q. (BY MR. BRENZA) What's the benefits  
776:16 of Roundup for home use?

776:17 A. In home settings one of the things it  
776:18 can do, glyphosate-based herbicides are effective  
776:19 at controlling poison ivy. And so when you think  
776:20 about, you know, having a poison ivy plant in your  
776:21 yard, I have actually had this situation quite a  
776:22 lot, you know, or poison oak is another one, you  
776:23 just don't want to come into contact with these  
776:24 plants, you know, you don't want to get -- grab  
776:25 them with your hands or -- or try to get them out,  
777:1 you know, in a way that's going to cause you to  
777:2 come into contact with them.

777:3 So the way I use glyphosate-based  
777:4 herbicides and other people do is controlling  
777:5 poison ivy in a way that keeps you from having to  
777:6 come into contact with it.

784:20 - 786:24

**Reeves, William 01-24-2019 (00:02:32)**

REEVES\_COMBINED\_03\_71

784:20 Q. All right. So if -- do you remember  
784:21 that you were asked a number of questions about the  
784:22 mouse and rat studies that were originally -- well,  
784:23 not originally used but were eventually used by  
784:24 Monsanto to register glyphosate with the EPA?

784:25 A. I do.

785:1 Q. And there was a 1983 mouse study by  
785:2 Knezevich and Hogan?

785:3 A. I do remember that.

785:4 Q. And as a result of that mouse study,

785:5 did the -- did the EPA reach a conclusion about --  
785:6 a preliminary conclusion about the carcinogenicity  
785:7 of glyphosate?

785:8 A. They -- they did have some  
785:9 preliminary conclusions. They were not made final  
785:10 by the agency.

785:11 Q. Do you remember that there was a  
785:12 document you were shown where Monsanto had hired  
785:13 somebody called Dr. -- named Dr. Kushner to review  
785:14 the mouse biopsies?

785:15 A. I do recall that.

785:16 Q. Did Monsanto tell Dr. Kushner what he  
785:17 should find with respect to his review of those  
785:18 mouse biopsies?

785:19 A. No, Monsanto did not do that.

785:20 Q. How do you know that?

785:21 A. The -- so Monsanto, when we work with  
785:22 external experts, you know, the -- you know, when  
785:23 you're talking about the science experts, the idea  
785:24 is that you want to find someone who knows their  
785:25 field, who understands the material that you're  
786:1 asking them to investigate and advise us on, but we  
786:2 also make sure, you know, we're not -- we're not  
786:3 going out there and telling them, you know -- we  
786:4 don't engage an expert and say this is what we want  
786:5 you to find, please do the following. It's please  
786:6 look into this and tell us what you find.

786:7 Q. Now, why -- it may be obvious but why  
786:8 wouldn't you tell an expert what to find?

786:9 A. So if -- if you're doing that, you  
786:10 know, they are not really acting as an expert, but  
786:11 more importantly, when you're doing something as  
786:12 serious as dealing with the regulatory agency, you  
786:13 know, putting information in front of them for them  
786:14 to make a conclusion, if you give them, you know,  
786:15 information that's false, that's not going to --  
786:16 they're going to spend their -- they're going to  
786:17 waste their time reviewing that and then they're  
786:18 going to come back to you and say not only did you  
786:19 waste our time, you gave us false information.

786:20 This isn't -- that's not a productive  
786:21 interaction with the regulatory agency. You want  
786:22 to make sure you're giving them as much factual  
786:23 information as possible so that you're able to  
786:24 obtain the registration or the approval.

787:14 - 789:1

**Reeves, William 01-24-2019 (00:01:43)**

REEVES\_COMBINED\_03

787:14 Q. Is Exhibit 95 the conclusion of the  
787:15 EPA about the proper classification of glyphosate  
787:16 based on mouse and rat studies?

787:17 A. Yes. Following the -- the two rat  
787:18 studies and the mouse study we discussed  
787:19 previously.

787:20 Q. So let's -- let's talk about those  
787:21 studies for a moment. The -- the first rat study  
787:22 was found to have inadequate dosing of rats; right?

787:23 A. That's correct. The -- the agency at  
787:24 the time expressed concern that the doses were too  
787:25 low to really inform full assessment, and since  
788:1 that time other regulatory agencies around the  
788:2 world have -- have concluded the same thing about  
788:3 it. That they're -- we have better data to rely on  
788:4 than this.

788:5 Q. Did Monsanto commission a replacement  
788:6 or repeat rat study to dose the rats with more  
788:7 glyphosate?

788:8 A. Yes, we did.

788:9 Q. And at the same time they also  
788:10 performed the mouse study that we heard so much  
788:11 about yesterday?

788:12 A. Yes, the mouse study was underway  
788:13 first, and the rat study began later on. So the  
788:14 mouse data were available first.

788:15 Q. Now, when the mouse study -- the  
788:16 mouse study received a number of different reviews  
788:17 at the EPA; right?

788:18 A. That's correct.

788:19 Q. And there was some disagreement along  
788:20 the way about what the mouse study -- that first  
788:21 mouse study really showed?

788:22 A. That's correct.

788:23 Q. But in the end, the -- a number of  
788:24 experts reviewed those, reviewed that mouse study  
788:25 and concluded that it -- it provided evidence that  
789:1 glyphosate was not a carcinogenic?

789:7 - 789:9

**Reeves, William 01-24-2019 (00:00:04)**

REEVES\_COMBINED\_03.F

789:7 Q. (BY MR. BRENZA) What did the -- what  
789:8 did the EPA ultimately conclude about that first  
789:9 mouse study?

789:12 - 792:2

**Reeves, William 01-24-2019 (00:02:55)**

REEVES\_COMBINED\_03.F

789:12 A. So based on -- on the documents that  
789:13 I've seen, they concluded that they wanted, you  
789:14 know, at -- as we discussed yesterday, they wanted  
789:15 a repeat of the mouse study. Through conversations  
789:16 with them we said we're having -- we have a rat  
789:17 study coming. Let's see what that study shows.  
789:18 And then at that time decide do we need to do  
789:19 another mouse study.

789:20 Q. (BY MR. BRENZA) Okay. And is that  
789:21 recorded on page 4 of Exhibit 95? Do you -- well,  
789:22 let me -- let me ask it this way. Do you see the  
789:23 second full paragraph on page 4 of Exhibit 95 --

MONSANTO P&amp;L 1

789:24 A. Yes, I do.

789:25 Q. -- beginning with "HED"?

790:1 A. I do see that.

790:2 Q. It says, "HED deferred a decision on  
790:3 the repeat of an additional mouse oncogenicity  
790:4 study until the 1990 rat feeding study had been  
790:5 evaluated by the Peer Review Committee."

790:6 A. That is correct. That's what it  
790:7 says.

790:8 Q. Did -- did the EP -- so we heard the  
790:9 questions yesterday about the EPA wanting a mouse  
790:10 and a rat study and -- and Mr. Wisner suggested  
790:11 that Monsanto refused to do one of the studies the  
790:12 EPA wanted.

790:13 Is that a fair understanding of what  
790:14 happened here?

790:15 A. No. What -- what the EPA is  
790:16 describing here is that the health effects division  
790:17 is HED. They deferred their decision about whether

790:18 we needed another repeat mouse study until they  
790:19 could see the results of this repeated rat study.

790:20 Q. So are you familiar with the results  
790:21 of the repeated rat study?

790:22 A. Yes, I am.

790:23 Q. And what did the repeated rat study  
790:24 show about the safety of glyphosate?

790:25 A. EPA concluded that -- that this  
791:1 repeated rat study, along with the existing mouse  
791:2 study, supported a conclusion that glyphosate could  
791:3 be classified in group E.

791:4 Q. What's -- and Group -- what is Group  
791:5 E? Well, let me -- let me just direct your  
791:6 attention to the -- the final page of Exhibit 95  
791:7 says Classification.

791:8 Do you see that?

791:9 A. I do see that.

791:10 Q. And there it says, "Considering  
791:11 criteria confined EPA guidelines for classifying a  
791:12 carcinogen, the committee concluded that glyphosate  
791:13 should be classified as a Group E (evidence of  
791:14 non-carcinogenicity for humans), based on lack of  
791:15 convincing carcinogenicity evidence in adequate  
791:16 studies in two animal species."

791:17 You see that?

791:18 A. I do see that. That's what they  
791:19 concluded here.

791:20 Q. And so a Group E means what?

791:21 A. Group E, their description is  
791:22 "evidence of non-carcinogenicity for humans," that  
791:23 -- and that was their -- their definition here in  
791:24 1991 following that review.

791:25 Q. What were the two species in which  
792:1 non-carcinogenicity had been proven by studies?

792:2 A. Rat --

792:5 - 793:1

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792:5 A. In rats and mice. Those were the two  
792:6 species.

792:7 Q. (BY MR. BRENZA) Are you aware of any  
792:8 rat or mice studies the EPA wanted Monsanto to

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792:9 perform that it didn't perform?

792:10 A. No, I am not.

792:11 Q. Was that even a feasible thing to

792:12 have happen?

792:13 A. To conduct a rat or a mouse study?

792:14 Q. To refuse to conduct a rat or mouse

792:15 study that the EPA asks you to perform?

792:16 A. Once -- once they issue -- we talked

792:17 yesterday about a data call in. And so that's the

792:18 way -- that's how EPA can order a registrant to

792:19 turn in data.

792:20 You can -- you can have discussions

792:21 about EPA, with EPA about data requirements and

792:22 whether things are needed, but, you know, if -- if

792:23 they decide you're going to do something, you don't

792:24 have a -- you don't have a choice in that. In

792:25 order to maintain your product registration, you

793:1 have to give them the data they're asking for.

[REDACTED]

[REDACTED]

[REDACTED]

[REDACTED]

**Total Time = 00:56:19**

**Documents Shown**

EXHIBIT 100

EXHIBIT 505

EXHIBIT 506

EXHIBIT 508

EXHIBIT 509

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EXHIBIT 515

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