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UNITED STATES OF AMERICA,

and

v.

STATE OF NEW MEXICO ex rel. STATE ENGINEER,

Plaintiffs,

No. 01cv0072-MV/JHR ZUNI RIVER BASIN ADJUDICATION Subfile No. ZRB-1-0148

A & R PRODUCTIONS, et. al.,

Defendants.

REMOTE DEPOSITION BY VIDEOCONFERENCE OF

ALAN KUHN, PHD

TAKEN ON THURSDAY, FEBRUARY 11, 2021 10:10 A.M.

13212 MANITOBA DRIVE NORTHEAST ALBUQUERQUE, NEW MEXICO 87111

Exhibit 3 - Alan Kuhn Deposition Excerpts

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	42			44
1	A. It's evidently a difference in multipliers used.	1	MR. GOLLIS: Yeah, that'd be fine. Why don't we	
2	Q. And and what do you mean by a difference in	2	go off the record and take a would you like five or ten	
3	multipliers?	3	minutes, Dr. Kuhn?	
4	A. Well, from well, through June, a multiplier	4	THE DEPONENT: I don't need I I don't need	
5	used had one more digit than the multiplier used for the	5	ten.	
6	remainder of the year and into January of 2002.	6	MR. GOLLIS: Let's go five five minutes,	
7	Q. And would it be the individual reading the meter	7	then. That'd be great.	
8	itself who would be responsible for that difference?	8	THE DEPONENT: All right. Thank you.	
9	A. I think so, yes.	9	THE REPORTER: The time is 11:22 a.m. and we are	
10	Q. And why would that individual or individuals be	10	off the record.	
11	compelled, I guess I'm wondering, essentially to read the	11	(WHEREUPON, a recess was taken.)	
12	meter in two different ways during that time period?	12	THE REPORTER: The time is 11:28 and we are back	
13	A. Well, I don't know that they were compelled in	13	on the record.	
14	any way. I just think that there was a lapse in	14	BY MR. GOLLIS:	
15	continuity, in who was reading or now they were recording,	15	Q. Dr. Kunn, you indicated that you wouldn't want	
10	and they probably did not either have or follow the same	10	to take a stab at reading that meter depicted in Exhibit 7	
10	O Take a look if you would for me at Exhibit 7	17	right?	
10	again which is the photograph of the G-336 well meter	10	A That's correct	
20	A All right	20	\mathbf{O} Are you able to take a stab at reading that	
21	O Yeah And you see on that photograph that the	21	meter the digital portion of that meter? Understanding	
22	time it was taken, there's a reading on that meter. And	22	of course, that we don't have the the manual available	
23	it shows 0945540. You see that?	23	A. Well, I don't see that how I could. I mean.	
24	A. Yes.	24	I I don't think anybody who was looking at this without	
25	Q. And then there's also on the on the face of	25	having read the manual is going to be able to really give	
	43			45
1	43 that meter, a red arrow, and the face contains numbers	1	you a very accurate or confident response.	45
1	43 that meter, a red arrow, and the face contains numbers beginning with zero and going to the number nine. You	1	you a very accurate or confident response. Q. So in terms of looking at that digital portion	45
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		-		
	46	5		48
1	Q. And we were looking at the last page of that	1	A. Yes.	
2	document which is Page 16.	2	Q. That's where that number comes from?	
3	A. Yes, I have it.	3	A. Yes.	
4	Q. Okay. And if you look at the meter reading for	4	Q. Okay. And then you look at the next column,	
5	January 1, 2001, the very first meter reading.	5	which is entitled, "End", which I presume means the end of	
6	A. Yes.	6	the year; is that right?	
7	Q. It shows 104680?	7	A. Well, the end of of that record, which	
8	A. Yes.	8	actually, the date was, I think, January 2 of the	
9	Q. Would you agree with me that that appears to	9	following year. But it represents the end of the of	
10	depict the number 104,680?	10	the business year, let's say.	
11	A. Yes.	11	Q. Got it. I I I agree. It's it's	
12	Q. Okay. And there's no intention as far as you	12	actually, I was going to say, that would appear to be the	
13	can tell to impugn a decimal point into that number by	13	meter reading for January 1, 2002, which again on Page 16	
14	whoever recorded this meter reading?	14	of Exhibit 2 shows the meter reading as 12472. And that's	
15	A. I wouldn't have any basis to do so.	15	where you got that number; correct?	
16	Q. Okay. If you would take a look at your report?	16	A. Yes.	
17	My copy has it on Page 5. I'm interested in taking a look	17	Q. Okay. Next column on Table 1 shows the total	
18	at Table 1. I'm not sure what page if that's the page	18	water pumped, I guess, for the year; is that correct?	
19	you have it on.	19	A. According to a raw reading of the meter, yes.	
20	A. Okay. Table 1 on my copy is is Page 4, but	20	Q. Okay.	
21	that's okay.	21	A. Or of of the recorded record, yeah.	
22	Q. Okay. Okay. Table 1 which is entitled, "Water	22	Q. Okay. And and why is and and that	
23	Meter Readings Well G-336 Tinaja Quarry"?	23	number is 90 92208, but the negative. Why is there a	
24	A. Right.	24	negative sign in front of that number?	
25	Q. 2001 through 2016.	25	A. It's just to show the the numerical	
	4	+		
		7		
	4.	7		49
1	A. Yes.	1	difference between the start and end columns.	49
1 2	A. Yes. Q. Would you just generally describe for us what	7 1 2	difference between the start and end columns. Q. Okay. So so you you calculate that figure	49
1 2 3	A. Yes. Q. Would you just generally describe for us what you intended to show in this table?	1 2 3	difference between the start and end columns. Q. Okay. So so you you calculate that figure by how how do you calculate that figure?	49
1 2 3 4	A. Yes.Q. Would you just generally describe for us what you intended to show in this table?A. Well, I wanted to tabulate in one space, in one	7 1 2 3 4	difference between the start and end columns. Q. Okay. So so you you calculate that figure by how how do you calculate that figure? A. So	49
1 2 3 4 5	 A. Yes. Q. Would you just generally describe for us what you intended to show in this table? A. Well, I wanted to tabulate in one space, in one common space the meter readings that were recorded in the table. 	1 2 3 4 5	difference between the start and end columns. Q. Okay. So so you you calculate that figure by how how do you calculate that figure? A. So Q. From the start and the end numbers?	45
1 2 3 4 5 6	 A. Yes. Q. Would you just generally describe for us what you intended to show in this table? A. Well, I wanted to tabulate in one space, in one common space the meter readings that were recorded in the other documents, other exhibits that you've referred to. 	1 2 3 4 5 6	 difference between the start and end columns. Q. Okay. So so you you calculate that figure by how how do you calculate that figure? A. So Q. From the start and the end numbers? A. So so dropping the end number from the start 	45
1 2 3 4 5 6 7	 A. Yes. Q. Would you just generally describe for us what you intended to show in this table? A. Well, I wanted to tabulate in one space, in one common space the meter readings that were recorded in the other documents, other exhibits that you've referred to. And then over on the right-hand side, tried to 	7 1 2 3 4 5 6 7	 difference between the start and end columns. Q. Okay. So so you you calculate that figure by how how do you calculate that figure? A. So Q. From the start and the end numbers? A. So so dropping the end number from the start number for each year. 	45
1 2 3 4 5 6 7 8	 A. Yes. Q. Would you just generally describe for us what you intended to show in this table? A. Well, I wanted to tabulate in one space, in one common space the meter readings that were recorded in the other documents, other exhibits that you've referred to. And then over on the right-hand side, tried to make some kind of sense between the acre-feet that would be interpreted using one or another multipliere, and how 	7 1 2 3 4 5 6 7 8	 difference between the start and end columns. Q. Okay. So so you you calculate that figure by how how do you calculate that figure? A. So Q. From the start and the end numbers? A. So so dropping the end number from the start number for each year. Q. Okay. Now the next set of columns come under the beging "Adjusted Boggings". And Lake it that 	49
1 2 3 4 5 6 7 8 9	 A. Yes. Q. Would you just generally describe for us what you intended to show in this table? A. Well, I wanted to tabulate in one space, in one common space the meter readings that were recorded in the other documents, other exhibits that you've referred to. And then over on the right-hand side, tried to make some kind of sense between the acre-feet that would be interpreted using one or another multipliers, and how that would total up for you know, annual water use 	1 2 3 4 5 6 7 8 9	 difference between the start and end columns. Q. Okay. So so you you calculate that figure by how how do you calculate that figure? A. So Q. From the start and the end numbers? A. So so dropping the end number from the start number for each year. Q. Okay. Now the next set of columns come under the heading, "Adjusted Readings". And I take it that refers to the fact that you've new taken the raw data and 	49
1 2 3 4 5 6 7 8 9 10	 A. Yes. Q. Would you just generally describe for us what you intended to show in this table? A. Well, I wanted to tabulate in one space, in one common space the meter readings that were recorded in the other documents, other exhibits that you've referred to. And then over on the right-hand side, tried to make some kind of sense between the acre-feet that would be interpreted using one or another multipliers, and how that would total up for, you know, annual water use average annual water use 	7 1 2 3 4 5 6 7 8 9 10	 difference between the start and end columns. Q. Okay. So so you you calculate that figure by how how do you calculate that figure? A. So Q. From the start and the end numbers? A. So so dropping the end number from the start number for each year. Q. Okay. Now the next set of columns come under the heading, "Adjusted Readings". And I take it that refers to the fact that you've now taken the raw data and made adjustments to it? 	49
1 2 3 4 5 6 7 8 9 10 11	 A. Yes. Q. Would you just generally describe for us what you intended to show in this table? A. Well, I wanted to tabulate in one space, in one common space the meter readings that were recorded in the other documents, other exhibits that you've referred to. And then over on the right-hand side, tried to make some kind of sense between the acre-feet that would be interpreted using one or another multipliers, and how that would total up for, you know, annual water use average annual water use. 	7 1 2 3 4 5 6 7 8 9 10 11	 difference between the start and end columns. Q. Okay. So so you you calculate that figure by how how do you calculate that figure? A. So Q. From the start and the end numbers? A. So so dropping the end number from the start number for each year. Q. Okay. Now the next set of columns come under the heading, "Adjusted Readings". And I take it that refers to the fact that you've now taken the raw data and made adjustments to it? 	45
1 2 3 4 5 6 7 8 9 10 11 12 13	 A. Yes. Q. Would you just generally describe for us what you intended to show in this table? A. Well, I wanted to tabulate in one space, in one common space the meter readings that were recorded in the other documents, other exhibits that you've referred to. And then over on the right-hand side, tried to make some kind of sense between the acre-feet that would be interpreted using one or another multipliers, and how that would total up for, you know, annual water use average annual water use. If you and I went back through and tried several different multipliers, which is what those three 	7 1 2 3 4 5 6 7 8 9 10 11 12 13	 difference between the start and end columns. Q. Okay. So so you you calculate that figure by how how do you calculate that figure? A. So Q. From the start and the end numbers? A. So so dropping the end number from the start number for each year. Q. Okay. Now the next set of columns come under the heading, "Adjusted Readings". And I take it that refers to the fact that you've now taken the raw data and made adjustments to it? A. Yes. Q. Okay. And for 2001 under the Start column for 	45
1 2 3 4 5 6 7 8 9 10 11 12 13 14	 A. Yes. Q. Would you just generally describe for us what you intended to show in this table? A. Well, I wanted to tabulate in one space, in one common space the meter readings that were recorded in the other documents, other exhibits that you've referred to. And then over on the right-hand side, tried to make some kind of sense between the acre-feet that would be interpreted using one or another multipliers, and how that would total up for, you know, annual water use average annual water use. If you and I went back through and tried several different multipliers, which is what those three right-hand columns represent. And the only one in that 	7 1 2 3 4 5 6 7 8 9 10 11 12 13 14	 difference between the start and end columns. Q. Okay. So so you you calculate that figure by how how do you calculate that figure? A. So Q. From the start and the end numbers? A. So so dropping the end number from the start number for each year. Q. Okay. Now the next set of columns come under the heading, "Adjusted Readings". And I take it that refers to the fact that you've now taken the raw data and made adjustments to it? A. Yes. Q. Okay. And for 2001 under the Start column for the adjusted readings is the number 10468000; is that 	45
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15	 A. Yes. Q. Would you just generally describe for us what you intended to show in this table? A. Well, I wanted to tabulate in one space, in one common space the meter readings that were recorded in the other documents, other exhibits that you've referred to. And then over on the right-hand side, tried to make some kind of sense between the acre-feet that would be interpreted using one or another multipliers, and how that would total up for, you know, annual water use average annual water use. If you and I went back through and tried several different multipliers, which is what those three right-hand columns represent. And the only one in that case that made any sense to me was the right-hand most 	7 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15	 difference between the start and end columns. Q. Okay. So so you you calculate that figure by how how do you calculate that figure? A. So Q. From the start and the end numbers? A. So so dropping the end number from the start number for each year. Q. Okay. Now the next set of columns come under the heading, "Adjusted Readings". And I take it that refers to the fact that you've now taken the raw data and made adjustments to it? A. Yes. Q. Okay. And for 2001 under the Start column for the adjusted readings is the number 10468000; is that right? 	45
1 2 3 4 5 6 7 8 9 10 11 2 3 14 15 16	 A. Yes. Q. Would you just generally describe for us what you intended to show in this table? A. Well, I wanted to tabulate in one space, in one common space the meter readings that were recorded in the other documents, other exhibits that you've referred to. And then over on the right-hand side, tried to make some kind of sense between the acre-feet that would be interpreted using one or another multipliers, and how that would total up for, you know, annual water use average annual water use. If you and I went back through and tried several different multipliers, which is what those three right-hand columns represent. And the only one in that case that made any sense to me was the right-hand most, the 1000 column figures. 	7 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16	 difference between the start and end columns. Q. Okay. So so you you calculate that figure by how how do you calculate that figure? A. So Q. From the start and the end numbers? A. So so dropping the end number from the start number for each year. Q. Okay. Now the next set of columns come under the heading, "Adjusted Readings". And I take it that refers to the fact that you've now taken the raw data and made adjustments to it? A. Yes. Q. Okay. And for 2001 under the Start column for the adjusted readings is the number 10468000; is that right? A. That's right. 	45
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17	 A. Yes. Q. Would you just generally describe for us what you intended to show in this table? A. Well, I wanted to tabulate in one space, in one common space the meter readings that were recorded in the other documents, other exhibits that you've referred to. And then over on the right-hand side, tried to make some kind of sense between the acre-feet that would be interpreted using one or another multipliers, and how that would total up for, you know, annual water use average annual water use. If you and I went back through and tried several different multipliers, which is what those three right-hand columns represent. And the only one in that case that made any sense to me was the right-hand most, the 1000 column figures. Q. Okay. So if I understand this correctly. if we 	7 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17	 difference between the start and end columns. Q. Okay. So so you you calculate that figure by how how do you calculate that figure? A. So Q. From the start and the end numbers? A. So so dropping the end number from the start number for each year. Q. Okay. Now the next set of columns come under the heading, "Adjusted Readings". And I take it that refers to the fact that you've now taken the raw data and made adjustments to it? A. Yes. Q. Okay. And for 2001 under the Start column for the adjusted readings is the number 10468000; is that right? A. That's right. Q. So you've essentially taken the raw number for 	45
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18	 A. Yes. Q. Would you just generally describe for us what you intended to show in this table? A. Well, I wanted to tabulate in one space, in one common space the meter readings that were recorded in the other documents, other exhibits that you've referred to. And then over on the right-hand side, tried to make some kind of sense between the acre-feet that would be interpreted using one or another multipliers, and how that would total up for, you know, annual water use average annual water use. If you and I went back through and tried several different multipliers, which is what those three right-hand columns represent. And the only one in that case that made any sense to me was the right-hand most, the 1000 column figures. Q. Okay. So if I understand this correctly, if we look at the the first row in Table 1, which contains 	7 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18	 difference between the start and end columns. Q. Okay. So so you you calculate that figure by how how do you calculate that figure? A. So Q. From the start and the end numbers? A. So so dropping the end number from the start number for each year. Q. Okay. Now the next set of columns come under the heading, "Adjusted Readings". And I take it that refers to the fact that you've now taken the raw data and made adjustments to it? A. Yes. Q. Okay. And for 2001 under the Start column for the adjusted readings is the number 10468000; is that right? A. That's right. Q. So you've essentially taken the raw number for January 1, 2001's meter reading, and multiplied it by 1000 	45
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19	 A. Yes. Q. Would you just generally describe for us what you intended to show in this table? A. Well, I wanted to tabulate in one space, in one common space the meter readings that were recorded in the other documents, other exhibits that you've referred to. And then over on the right-hand side, tried to make some kind of sense between the acre-feet that would be interpreted using one or another multipliers, and how that would total up for, you know, annual water use average annual water use. If you and I went back through and tried several different multipliers, which is what those three right-hand columns represent. And the only one in that case that made any sense to me was the right-hand most, the 1000 column figures. Q. Okay. So if I understand this correctly, if we look at the the first row in Table 1, which contains data relating to calendar year 2001. 	7 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19	 difference between the start and end columns. Q. Okay. So so you you calculate that figure by how how do you calculate that figure? A. So Q. From the start and the end numbers? A. So so dropping the end number from the start number for each year. Q. Okay. Now the next set of columns come under the heading, "Adjusted Readings". And I take it that refers to the fact that you've now taken the raw data and made adjustments to it? A. Yes. Q. Okay. And for 2001 under the Start column for the adjusted readings is the number 10468000; is that right? A. That's right. Q. So you've essentially taken the raw number for January 1, 2001's meter reading, and multiplied it by 1000 to get that figure; is that correct? 	45
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20	 A. Yes. Q. Would you just generally describe for us what you intended to show in this table? A. Well, I wanted to tabulate in one space, in one common space the meter readings that were recorded in the other documents, other exhibits that you've referred to. And then over on the right-hand side, tried to make some kind of sense between the acre-feet that would be interpreted using one or another multipliers, and how that would total up for, you know, annual water use average annual water use. If you and I went back through and tried several different multipliers, which is what those three right-hand columns represent. And the only one in that case that made any sense to me was the right-hand most, the 1000 column figures. Q. Okay. So if I understand this correctly, if we look at the the first row in Table 1, which contains data relating to calendar year 2001. A. Yes. 	7 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20	 difference between the start and end columns. Q. Okay. So so you you calculate that figure by how how do you calculate that figure? A. So Q. From the start and the end numbers? A. So so dropping the end number from the start number for each year. Q. Okay. Now the next set of columns come under the heading, "Adjusted Readings". And I take it that refers to the fact that you've now taken the raw data and made adjustments to it? A. Yes. Q. Okay. And for 2001 under the Start column for the adjusted readings is the number 10468000; is that right? A. That's right. Q. So you've essentially taken the raw number for January 1, 2001's meter reading, and multiplied it by 1000 to get that figure; is that correct? A. That's correct. 	45
$\begin{array}{c}1\\2\\3\\4\\5\\6\\7\\8\\9\\10\\11\\12\\13\\14\\15\\16\\17\\18\\19\\20\\21\end{array}$	 A. Yes. Q. Would you just generally describe for us what you intended to show in this table? A. Well, I wanted to tabulate in one space, in one common space the meter readings that were recorded in the other documents, other exhibits that you've referred to. And then over on the right-hand side, tried to make some kind of sense between the acre-feet that would be interpreted using one or another multipliers, and how that would total up for, you know, annual water use average annual water use. If you and I went back through and tried several different multipliers, which is what those three right-hand columns represent. And the only one in that case that made any sense to me was the right-hand most, the 1000 column figures. Q. Okay. So if I understand this correctly, if we look at the the first row in Table 1, which contains data relating to calendar year 2001. A. Yes. Q. Under that second column, which is entitled, 	7 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 20 21	 difference between the start and end columns. Q. Okay. So so you you calculate that figure by how how do you calculate that figure? A. So Q. From the start and the end numbers? A. So so dropping the end number from the start number for each year. Q. Okay. Now the next set of columns come under the heading, "Adjusted Readings". And I take it that refers to the fact that you've now taken the raw data and made adjustments to it? A. Yes. Q. Okay. And for 2001 under the Start column for the adjusted readings is the number 10468000; is that right? A. That's right. Q. So you've essentially taken the raw number for January 1, 2001's meter reading, and multiplied it by 1000 to get that figure; is that correct? A. That's correct. Q. Okay. And then in the End column under Adjusted 	45
$\begin{array}{c}1\\2\\3\\4\\5\\6\\7\\8\\9\\10\\11\\12\\13\\14\\15\\16\\17\\18\\19\\20\\21\\22\end{array}$	 A. Yes. Q. Would you just generally describe for us what you intended to show in this table? A. Well, I wanted to tabulate in one space, in one common space the meter readings that were recorded in the other documents, other exhibits that you've referred to. And then over on the right-hand side, tried to make some kind of sense between the acre-feet that would be interpreted using one or another multipliers, and how that would total up for, you know, annual water use average annual water use. If you and I went back through and tried several different multipliers, which is what those three right-hand columns represent. And the only one in that case that made any sense to me was the right-hand most, the 1000 column figures. Q. Okay. So if I understand this correctly, if we look at the the first row in Table 1, which contains data relating to calendar year 2001. A. Yes. Q. Under that second column, which is entitled, "Start", you have the number 104680. And when we look at 	7 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 20 21 22	 difference between the start and end columns. Q. Okay. So so you you calculate that figure by how how do you calculate that figure? A. So Q. From the start and the end numbers? A. So so dropping the end number from the start number for each year. Q. Okay. Now the next set of columns come under the heading, "Adjusted Readings". And I take it that refers to the fact that you've now taken the raw data and made adjustments to it? A. Yes. Q. Okay. And for 2001 under the Start column for the adjusted readings is the number 10468000; is that right? A. That's right. Q. So you've essentially taken the raw number for January 1, 2001's meter reading, and multiplied it by 1000 to get that figure; is that correct? A. That's correct. Q. Okay. And then in the End column under Adjusted Readings, you did the same to the January 1, 2002 meter 	45
$\begin{array}{c}1\\2\\3\\4\\5\\6\\7\\8\\9\\10\\11\\12\\13\\14\\15\\16\\17\\18\\19\\20\\21\\22\\23\end{array}$	 A. Yes. Q. Would you just generally describe for us what you intended to show in this table? A. Well, I wanted to tabulate in one space, in one common space the meter readings that were recorded in the other documents, other exhibits that you've referred to. And then over on the right-hand side, tried to make some kind of sense between the acre-feet that would be interpreted using one or another multipliers, and how that would total up for, you know, annual water use average annual water use. If you and I went back through and tried several different multipliers, which is what those three right-hand columns represent. And the only one in that case that made any sense to me was the right-hand most, the 1000 column figures. Q. Okay. So if I understand this correctly, if we look at the the first row in Table 1, which contains data relating to calendar year 2001. A. Yes. Q. Under that second column, which is entitled, "Start", you have the number 104680. And when we look at Exhibit 2, which is the meter readings compiled by C & E 	7 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23	 difference between the start and end columns. Q. Okay. So so you you calculate that figure by how how do you calculate that figure? A. So Q. From the start and the end numbers? A. So so dropping the end number from the start number for each year. Q. Okay. Now the next set of columns come under the heading, "Adjusted Readings". And I take it that refers to the fact that you've now taken the raw data and made adjustments to it? A. Yes. Q. Okay. And for 2001 under the Start column for the adjusted readings is the number 10468000; is that right? A. That's right. Q. So you've essentially taken the raw number for January 1, 2001's meter reading, and multiplied it by 1000 to get that figure; is that correct? A. That's correct. Q. Okay. And then in the End column under Adjusted Readings, you did the same to the January 1, 2002 meter reading of 12472. You multiplied that one by 1000 as 	45
$\begin{array}{c}1\\2\\3\\4\\5\\6\\7\\8\\9\\10\\11\\12\\13\\14\\15\\16\\17\\18\\20\\21\\22\\23\\24\end{array}$	 A. Yes. Q. Would you just generally describe for us what you intended to show in this table? A. Well, I wanted to tabulate in one space, in one common space the meter readings that were recorded in the other documents, other exhibits that you've referred to. And then over on the right-hand side, tried to make some kind of sense between the acre-feet that would be interpreted using one or another multipliers, and how that would total up for, you know, annual water use average annual water use. If you and I went back through and tried several different multipliers, which is what those three right-hand columns represent. And the only one in that case that made any sense to me was the right-hand most, the 1000 column figures. Q. Okay. So if I understand this correctly, if we look at the the first row in Table 1, which contains data relating to calendar year 2001. A. Yes. Q. Under that second column, which is entitled, "Start", you have the number 104680. And when we look at Exhibit 2, which is the meter readings compiled by C & E Concrete for that same date well, for January 1, 2001, 	7 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24	 difference between the start and end columns. Q. Okay. So so you you calculate that figure by how how do you calculate that figure? A. So Q. From the start and the end numbers? A. So so dropping the end number from the start number for each year. Q. Okay. Now the next set of columns come under the heading, "Adjusted Readings". And I take it that refers to the fact that you've now taken the raw data and made adjustments to it? A. Yes. Q. Okay. And for 2001 under the Start column for the adjusted readings is the number 10468000; is that right? A. That's right. Q. So you've essentially taken the raw number for January 1, 2001's meter reading, and multiplied it by 1000 to get that figure; is that correct? A. That's correct. Q. Okay. And then in the End column under Adjusted Readings, you did the same to the January 1, 2002 meter reading of 12472. You multiplied that one by 1000 as well. 	45



	50			52
1	adjusted start was multiplied by 100. The adjusted end	1	A. Well, you're you're asking me to interpret	
2	was multiplied by 1000.	2	what the manual says when I haven't read that that	
3	Q. Oh, okay. I see that. Thank you. And you did	3	manual. What I'm saying is that the the reading, even	
4	that why?	4	on even if the capacity, the dial might be exceeded, if	
5	A. Well, because otherwise, the numbers really	5	you take it as a numerical progression, and then that	
6	didn't make sense. In other words, you should have a	6	progression reaches let's say maximum of those seven	
7	progression, an increase, in the meter readings for the	7	digits, but you need eight digits, then you have a	
8	year as you pump.	8	multiplier that you can apply to that.	
9	And if you if you took that number down to a	9	And, you know, these are things about the design	
10	multiplier of ten, for instance, it would be way too low.	10	and the operation of the meter that I can't really speak	
11	It would be an amount of water not even worth pumping.	11	to because I don't know how it was set up.	
12	And so in order to make these rationally, the progression	12	Q. Okay. So without reading without taking a	
13	in years year totals rational, you have to come up with	13	look at the manual, we don't know exactly how this meter	
14	some kind of adjustment which puts that adjusted number	14	is intended to be read; is that right?	
15	into a reasonable range.	15	A. That would be my conclusion, yes.	
16	Q. Okay. So here's what I don't get. If you look	16	Q. Okay. So based on the raw data that was	
17	again at the meter depicted in the photograph in Exhibit	17	provided for the reading of this meter by C & E Concrete	
18	7, the meter for this well, G-336, and you look at that	18	to you, you essentially, not being privy to the manual,	
19	again, forgetting the dial for a moment we'll talk	19	made an educated guess to try to make sense out of the	
20	about that in a second. But the the the digital	20	meter readings. Is that kind of a fair description of	
21	display on that meter goes out to eight numbers; correct?	21	what you did?	
22	A. Well, no, seven numbers.	22	A. I don't consider it a guess at all. I consider	
23	Q. Seven numbers. I apologize. I can't count.	23	it to be a reasoned analysis.	
24	Seven numbers. Which means if we assume for a moment that	24	Q. Okay. Well, I I described it as an educated	
25	there is no decimal point in that digital display, that	25	guess. But I think reasoned analysis is is fine. That	
	51			53
1	51	1	makes sense to me. Okay	53
1	51 the maximum number of gallons that that meter can show in that digital display is 9 999 999. Would you agree?	1	makes sense to me. Okay.	53
1 2 3	51 the maximum number of gallons that that meter can show in that digital display is 9,999,999. Would you agree?	1 2 3	makes sense to me. Okay. And again, just one last time, so that I can try to be clear in my own mind. The fact that your reasoned	53
1 2 3 4	51 the maximum number of gallons that that meter can show in that digital display is 9,999,999. Would you agree? A. Well, it could roll over to to one million even I'm not sure how they the meter is set up to	1 2 3 4	makes sense to me. Okay. And again, just one last time, so that I can try to be clear in my own mind. The fact that your reasoned analysis carries the numbers out to the tens of millions	53
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