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APPEARANCES:

CONDUCTING: JAMES CARTER, Director of the
Division of Oil, Gas and Mining

FOR CO-OP: KARL KINGSTON, ESQ.

FOR CASTLE VALLEY
SPECIAL SERVICE

DISTRICT: JEFFREY APPEL, ESQ.

1 Salt Lake City, Utah, September 9, 1993 9:00 a.m.

2 MR. CARTER: Let's begin. I'm temporarily without
3 the file, so I'll have to ask all of you to make your
4 appearances for the record. This is a -- I also don't
5 have the file number which I'll make sure it gets
6 attached to the record so we have a complete record.
7 So I'm, just by way of introduction, I'm Jim Carter.
8 I'm the director of the Division of Oil, Gas and
9 Mining. And this proceeding was brought about by,
10 initially, by the application of Co-op Mining Company
11 for an amendment to their mining permit to allow mining
12 coal from the tank seam. I was going to say tank
13 canyon, but tank seam.

14 That requires them to file lots of documentation
15 and technical information with regard to that
16 activity. We're also required by the Utah program to
17 provide notice and an opportunity for hearing to all
18 those who are interested in that application, and we
19 received requests for informal hearings with regard to
20 the hydrologic issues raised by that application from,
21 I believe, Huntington Cleveland Irrigation Company, and
22 from Mr. Appel. Will you remind me?

23 MR. APPEL: Castle Valley Special Service
24 District.

25 MR. CARTER: Both of those entities are here today

1 and represented, as is the applicant Co-op mining. Is
2 there anyone else who plans to make a statement that
3 would like to identify him or herself at this point?
4 Well, you don't need to, we'll be able to take any
5 comment you want to make.

6 Those two entities, however, did file protests
7 within the statutory period and so they're entitled to
8 appear as Protestants. This is my first experience in
9 conducting a hearing like this one. I'm -- we have
10 some of our technical people here who can answer
11 questions if you have them with regard to the status of
12 the application.

13 But my understanding is that the application has
14 been determined to be complete, and we are now in the
15 process of consulting with other jurisdictional
16 agencies for obtaining necessary information in order
17 to make a determination as to whether or not to grant
18 the application.

19 MS. GRUBAUGH-LITTIG: Or technical adequacy.

20 MR. CARTER: That's the next step. All right. So
21 we have completeness and working on technical
22 adequacy. So these comments and the documents that
23 have been submitted so far will become part of the
24 record.

25 I think probably the way to proceed would be to

1 allow one or the other of the Protestants to appear,
2 and make whatever statements or offer whatever
3 testimony they would like for the record, and we'll
4 allow Mr. Kingston, who is appearing for the applicant,
5 to ask questions of those witnesses, and make a
6 statement as well, if he would like to.

7 Let's begin with Mr. Appel. Would you come up and
8 identify yourself.

9 MR. APPEL: My name is Jeffrey Appel from the law
10 firm of Appel and Mattsson. I'm today representing
11 Castle Valley Special Service District, I believe
12 Huntington City, Huntington Cleveland Irrigation
13 Company and Elmo.

14 Rather than spending a great deal of time myself,
15 I have with me Darrel Leamaster who is the manager of
16 the Special Service District, and Bryce Montgomery, a
17 professional geologist. I think a give and take, which
18 is proper in this setting I believe between yourself,
19 Mr. Carter, and them would be appropriate. They have
20 presentations to make about the company, the nature of
21 it and what we believe the geologic scenario is.

22 I'd like to reserve the right to sum up at the
23 end.

24 MR. CARTER: Certainly. We'll try not to make
25 this too formal, but keep in mind my most recent

1 experience was as chairman of the Board of Oil, Gas and
2 Mining which were formal proceedings, so we'll try to
3 loosen this up a little. Mr. Leamaster.

4 MR. LEAMASTER: Yes, thank you. My name is Darrel
5 Leamaster, I'm a professional civil engineer. I've
6 been employed by Castle Valley Special Service District
7 since 1977 in a position as their general manager. I'd
8 like to make just some general statements so you're a
9 bit more familiar with the Castle Valley Special
10 Service District. We are a regionalized water and
11 sewer district; we also maintain roads. We have 7
12 communities in western Emery county that we're
13 responsible for. Included those 7 communities are the
14 communities of Huntington and Cleveland and Elmo.

15 We have filed an objection in this proceeding
16 basically around water issues. We are concerned with
17 the quality and the quantity of water that we receive
18 now from a major source supply called the Big Bear
19 Spring. The Big Bear Spring is located half to three
20 quarters of a mile from the port of the Co-op mine.
21 The Big Bear Spring has been a vital part of the water
22 supply, really since about 1921.

23 In 1921 it was developed by Huntington City, put
24 in operation and it has been in the system continuously
25 since that time. We provide, with Big Bear Spring

1 water, for -- there's three communities I've mentioned,
2 Huntington, Cleveland and Elmo. The Big Bear Spring
3 provides about a third of our water supply, around 34
4 percent of our supply. And we have approximately 2600
5 people that we're serving on the system at the present
6 time.

7 I want to emphasize to you how important Big Bear
8 Spring is to us. As I mentioned, it's been on line for
9 over 70 years, and for 365 days of the year, 24 hours a
10 day, this spring's producing a top quality water
11 supply. It's a water supply that takes very little
12 maintenance, very little operational costs. There are
13 some costs involved with sampling, testing, routine
14 maintenance of the spring boxes and that kind of
15 thing. But compared to other sources of supply that
16 are available from surface waters, it's an economic
17 advantage to have a spring like this.

18 And so I can't emphasize enough how important this
19 thing is to us. And the other problem is, is that in
20 the area there are just no other springs comparable to
21 it that could be replaced with. So it's a one of a
22 kind type thing that if it is damaged or quality gets
23 to a point where we can't use it, it's not
24 replaceable. That's one of our major concerns, is that
25 if something does happen to that supply, what would we

1 do? It would be an extremely tough situation for us.

2 So that's the reason for the tremendous concern
3 that we have. We are really concerned about the
4 quality of the water. If some contamination did occur
5 to the water, it could be extremely tough to detect
6 that. We don't have continuous monitors on those
7 springs that would indicate that we had a problem. And
8 probably the first indication that we would have that a
9 problem exists, would be when we started receiving
10 complaints from our customers. That's what happens,
11 the springs come out of the mountain, go right into a
12 spring box, immediately go into our transmission lines,
13 down into our system, and then right immediately to our
14 customers. So, there's a tremendous liability involved
15 there not only for us, but also for the Co-op mine.

16 MR. CARTER: You don't chlorinate the water?

17 MR. LEAMASTER: It is chlorinated, chlorinated
18 about three quarters of a mile from where it comes out
19 of the spring box.

20 MR. CARTER: What is the flow, the average annual
21 flow rate of the spring?

22 MR. LEAMASTER: Well --

23 MR. CARTER: I'm trying to get an idea how big a
24 spring it is.

25 MR. LEAMASTER: I'm not sure how to answer that.

1 It's around 116 gallons a minute which is among the
2 lowest flows we've ever recorded. We have recorded
3 just below a hundred gallons a minute. Maybe your
4 question would lead me into a chart that I have here;
5 that we are concerned that we've already been affected
6 by the operation at the Co-op mine. And I'm not really
7 sure how to do this so everybody can see this. Maybe I
8 need to stand over here. I might also mention that
9 Bryce Montgomery is going to show more detail on this,
10 but just as an introduction, let me point out what I
11 have here.

12 This is a typical curve from the Big Bear Spring,
13 this January, February, March, all the months through
14 December. And I plotted a couple of years, I plotted
15 '83 and '85. '83 is the pink line, and 1985 is the
16 blue line. I didn't particularly pick those for any
17 reason other than they were more before the mining
18 operation that really affected us, and they were
19 periods when we had a pretty good water year,
20 hydrologic cycle.

21 The thing I wanted to point out on those is we
22 have what we consider a typical curve for the flow out
23 of that spring, that it dropped down in the late
24 winter, early spring months and comes up and peaks in
25 May, June, July months and drops back down. We've seen

1 this typically in other springs in the area. It's
2 defined in the literature by several people who have
3 done studies there.

4 So that's what we consider more of a typical type
5 of flow curve for that spring. The green line was the
6 1992 flow, and you'll see in some which -- that Mr.
7 Montgomery is going to present later -- this flow has
8 gradually gone down and down and down each year. The
9 yellow line is where we are in 1993 through July. And
10 I want to contrast that now to what's happening in some
11 of our other springs. This curve is basically the same
12 thing. We plotted months along the bottom flow rate
13 along this side. What we have plotted here are three
14 different springs. The top green line is our Little
15 Bear Spring. This is located up the canyon somewhat
16 from the Big Bear Spring. And that's the green line.
17 The pink line or red line is the Rilda Spring. That's
18 a spring that's owned by north Emery Water Users
19 Association, and is pretty much across the canyon from
20 the Big Bear Spring. The blue line is our Big Bear
21 Spring. And the contrast that we are seeing here is
22 Little Bear Spring has responded back up to a more
23 normal flow path; the Rilda Spring has done the same
24 thing and Big Bear has stayed essentially a straight
25 line.

1 We think that is because of the effect of the
2 Co-op mining on our spring. We think they have cut off
3 part of our supply to the spring and therefore it's not
4 responding in its normal pattern like it should, like
5 the other springs have.

6 Now, in years gone by, you asked about the flow,
7 we typically ran up around 200 gallons a minute. I
8 think the lowest flow that we'd ever recorded before
9 was in 1978 when study was done there for USGS and they
10 recorded 110 gallons a minute at that time right after
11 the 1977 drought. We have recorded flows recently
12 lower than 100 gallons a minute which is the lowest we
13 have ever seen.

14 So our point that we're trying to make is, and Mr.
15 Montgomery is going to bring this out in more detail,
16 is we feel like that we have already been affected at
17 that spring, that the flows are less than we would
18 normally expect, and we think that there's already been
19 a problem.

20 I'd like to talk just a little bit about the
21 overall area, Huntington Canyon area. This type of
22 problem that we're seeing with Co-op is somewhat
23 typical with the problem we have seen with other mines
24 in the area. We have three spring supplies, we have
25 Big Bear Spring, we have the spring at Tie Fork Canyon

1 and the Little Bear Spring. We have been concerned
2 with all three of these springs, and we did file a
3 protest with Plateau Mining, and Plateau Mining has
4 been very up front with us, very cooperative with us.
5 We worked out an agreement with them that they
6 delivered to my office yesterday that we expect to sign
7 within the week.

8 Basically what Plateau has said is we recognize
9 there may be a problem, we don't know for sure if it's
10 going to occur or not, but we want to address it up
11 front and handle it up front. And so we have worked
12 out this agreement. We have found other sources of
13 supply that we're going to be putting in and take that
14 spring out of the system until they finish mining.

15 Our other spring over at the Little Bear Spring is
16 fairly close to Genwal Mining Company operation. We
17 have had some concerns there. We have made some
18 objections also to some of Genwal's plans and again
19 they have taken a very positive attitude. They have
20 met with us, they have had us come up and go through a
21 tour of the mine with the geologist and hydrologist and
22 had a very positive attitude about working things out
23 with us before.

24 And contrast to that has been the experience that
25 we have had with the Co-op Mining Company, where their

1 attitude has been we are not going to interfere with
2 the spring, let's just ignore the situation and that
3 it's even there, and let the chips fall as they may, is
4 basically how it's turned out.

5 So as a result, we've been in front of DOGM back
6 in 1980 when they originally applied to open the Bear
7 Canyon Mine; in 1991 when we were here again, today
8 protesting the operations because we are so concerned
9 with this vital supply of water.

10 We're caught in a little bit of a dilemma here.
11 The state Division of Drinking Water just recently
12 passed for federal guidelines what they call the
13 drinking water source protection rule. And I don't
14 know if you're familiar with that rule. What it
15 requires us to do is to look at each one of our water
16 supply sources, and define what we need for a proper
17 protection zone for each of those sources of supply.
18 We then have to, once we have defined that protection
19 zone, we have to do an inventory in those areas to
20 determine what potential contamination sources exist
21 there, and then merge those sources to prevent, in the
22 future, contamination.

23 We also have to -- I have trouble with my voice --
24 excuse me.

25 We also have to identify what it would cost us to

1 correct any of those problems and how we might correct
2 them. So we're just in the situation now where we are
3 starting to develop that source protection plan. And
4 as we start that, immediately we see that the Co-op
5 Mine is right up stream and adjacent to this spring and
6 in there with potential contamination. So we're caught
7 in the middle here of what do we do? We have to come
8 up with this for the Division of Drinking Water and
9 we're stuck in the dilemma here of what we do with this
10 Big Bear Spring?

11 I guess the whole thing really boils down to the
12 question that's a tough one to answer; do we want to
13 contaminate and lose a drinking water supply source to
14 2600 people, or do we want to allow the mining
15 operation to continue? And it's a tough question.
16 We're not, certainly do not want to go put the Co-op
17 out of business, they are of important economic value,
18 they employ a lot of people and put a lot of money in
19 the economy. But on the other hand, when they finish
20 mining their last ton of coal, the communities of
21 Huntington, Cleveland and Elmo are still going to be
22 there and need a water supply. And we think it's
23 extremely important that we take all the steps we can
24 to protect that supply and keep it there.

25 I think that pretty well concludes the remarks I

1 wanted to make, and I'll turn the time over to Mr.
2 Montgomery.

3 MR. CARTER: Thank you.

4 MR. MONTGOMERY: My name is S. Bryce Montgomery,
5 I'm a professional geologist consulting for the Castle
6 Valley Water District, Special District. I've been
7 involved with this problem of the mining relationship
8 to their water supplies for the last few years, and
9 have done previous studies and prepared reports for the
10 district and have been before the Oil, Gas Division
11 before in a hearing similar to this.

12 Even though this latest request to mine the upper
13 seam, upper coal seam above where the present workings
14 are, the tank seam, and even though it is up within the
15 first aquifer zone where the principal ground water
16 table and potentiometric surface is not intersected by
17 this upper mining operation, nevertheless, it is within
18 the contributing zone to the principal aquifer.

19 And I'd like to take just a minute to review and
20 present before you Mr. Carter, the fact that the Big
21 Bear Spring, the Birch Spring and other principal
22 springs in this area actually flow from the regional
23 aquifer which is, you might say, in the bottom of the
24 drainage system of the ground water aquifer system.
25 All of the other aquifers up above that are more in a

1 perched state to some degree and contribute to this
2 lower region aquifer. And so my reference in
3 discussion here is principally towards the lower
4 regional aquifer.

5 Now, the lower regional aquifer actually involves
6 in the very bottom, the Starpoint sandstone which is
7 made up of three members that overlie the Mancos
8 shale. This is a simplified diagram that I've prepared
9 here that shows this interrelationship. In addition to
10 the Starpoint sandstone which immediately overlies the
11 Mancos shale, we have the Blackhawk formation
12 immediately above that. And as you get back into the
13 ground water system in the direction of recharge, then
14 the Blackhawk formation also becomes a part of that
15 regional aquifer system.

16 Both studies done by the U.S. Geological survey to
17 the north by Mr. Wadel as water supply paper 2246, and
18 also to the south by Mr. Lyons and others, water supply
19 paper 2259, have shown that this in fact is the case,
20 that the Blackhawk formation in which the coal occurs
21 in which they're mining, is a part of this regional
22 aquifer system once you get back from the mountain
23 front into the main water storage.

24 Mr. Danielson who previously, before these two
25 studies, did a study in this immediate area, also

1 referred to this as a regional aquifer system, but he
2 indicated that more data was needed to confirm this.
3 Since his study, Mr. Danielson's study in '81, these
4 two other studies have been done which indeed outline
5 the fact that the Blackhawk formation is a part of the
6 regional aquifer system. And as the coal mining
7 extends back into the mountain, then it extends into
8 the area of increased storage and also increased
9 hydrostatic head. And as the coal mining continues
10 back into the main storage of this regional aquifer,
11 the head increase as well as the storage increase
12 allows more water to be intercepted and the flows
13 increase.

14 All of the mines, the major mines that have
15 intersected this regional aquifer show that this
16 occurs. And Co-op mine is not an exception. As
17 they've increased their mining back to the north in the
18 direction of recharge, their intercepted flows from the
19 mine have gradually increased. And as I understand, in
20 the latest report that they prepared for the tank seam,
21 they indicate that they are now intercepting 500
22 gallons per minute, whereas a few years ago it was only
23 100 gallons a minute.

24 The study done by Mr. Wadel and others to the
25 north, the U.S. Geological survey, was principally done

1 to show what effect the mining in that area would have
2 on the water resources. And it involves -- the study
3 involves the same formations that are present here in
4 the Co-op mine and that supplies water, ground water to
5 the Big Bear Spring and the Birch spring and other
6 principal springs in the area. The springs that hold
7 up and flow continuously year round come from this
8 regional aquifer, and they're located in the lower part
9 of the aquifer system, down not too far above the
10 Mancos shale contact.

11 And in contrast to this aquifer which has a high
12 storage capacity, other aquifers that may be up the
13 geologic column, their storage is not as great and so
14 seasonal variations affect them more rapidly and the
15 regression curves of flow from these springs show a
16 more erratic picture or pattern in comparison to the
17 regression flows from springs discharging from the
18 regional aquifer. The flows from the regional aquifer
19 do show the effect of cyclic variations from precip to
20 decline later in the year, but they're more gradual.

21 And it was on this basis that Mr. Wadel and others
22 said that they would be able to determine whether
23 certain coal mining operations there in the north had
24 actually affected this regional aquifer because of
25 these regression curves of flow. I have prepared

1 charts showing how these flow curves vary from one time
2 of the year to the other and also from one year to the
3 next. And this chart here actually covers the years
4 1983 through to the present, 1993. The black lines
5 represent the earlier years. You can see how that
6 there is a definite -- this is in the Little Bear
7 Spring by the way which is located back off on the west
8 side of Huntington Canyon some distance away from the
9 mining operation, and it has not been affected by
10 mining operations, so it represents a baseline type
11 situation. So you can see that there is a hump during
12 the months of May, June, July and August and it starts
13 to drop again. That's the natural condition.

14 Now, due to drought, which occurred in the '80's,
15 late '80's, there has been a decline effect and this
16 shows it, but this effect of the drought really didn't
17 show up on this Little Bear Spring flow record until
18 the year 1990. It takes a while for water, once it
19 enters the surface from precipitation to get down and
20 reach and have an affect on where it discharges from
21 this main aquifer.

22 MR. CARTER: Little Bear Spring is in the
23 Starpoint sandstone?

24 MR. MONTGOMERY: Yes, it is. And it's located --
25 I have a diagram here showing the relationship. This

1 is looking westward, and this drainage right here is
2 Huntington Canyon, and these heavy lines are principal
3 fault lines. This is Bear Canyon fault and this is the
4 Pleasant Valley fault and Joe's Valley fault here.

5 This is all mountainous area here, and the water, the
6 precipitation falling, as I show in this cross-section,
7 precipitation falling works its way down, that amount
8 that is able to infiltrate that doesn't run off. The
9 principal avenue for this movement of water from the
10 area of precipitation and infiltration is through
11 fractures and faults because we do have inner beds of
12 shale which tend to act as barriers, but the faults cut
13 these beds and allow water to move vertically down.

14 The regional aquifer, including the Blackhawk
15 formation in this area is at the bottom of this
16 drainage system, and so there is a potentiometric
17 surface or ground water surface high up towards the
18 area of infiltration. It gradually moves down towards
19 the bottom of the drainage, very much like the slope of
20 the topography. So the Big Bear Spring is located here
21 just west of the Bear Canyon fault, Birch Spring and
22 other springs in that vicinity, and Little Bear Spring
23 is located over on the west side of the Pleasant Valley
24 fault.

25 MR. CARTER: Is the spring location tied to the

1 faulting? Are the spring locations tied to the
2 faulting?

3 MR. MONTGOMERY: Certainly they are and most of
4 these springs, if they're not directly on a fault,
5 they're on a joint system that ties into a system
6 nearby. And so, getting back to my chart again, even
7 though there was an effect on Little Bear Spring by the
8 drought, this affect really was not pronounced until
9 1990.

10 MR. CARTER: Did the curve shape remain pretty
11 much the same?

12 MR. MONTGOMERY: Yes, but the flows have
13 diminished, as it shows here. The red curve was 1992,
14 and the green curve was 1993, proceeding to here.

15 MR. CARTER: You still see spring peaks in the
16 shape of the curve?

17 MR. MONTGOMERY: The shape of the curve is the
18 same but much depressed due to the effect of the
19 drought.

20 MR. CARTER: Right.

21 MR. MONTGOMERY: Now, going from that then to the
22 Big Bear Spring -- by the way, I'd be glad to furnish
23 copies of these to you if you'd like.

24 MR. CARTER: I think we probably ought to have
25 those as part of the record.

1 MR. MONTGOMERY: You bet. Going to the Big Bear
2 Spring now that lies directly -- let me go back to my
3 diagram here. It lies directly down gradient from the
4 Co-op Big Bear mining operations. Here is the spring
5 here and the mine is immediately up gradient, and the
6 recharge, of course, is back to the north. So the
7 gradient, the ground water gradient is from north to
8 south.

9 Moving right through, the Co-op mine is right in
10 the flow path of this gradient towards the spring.
11 Actually, that operation, Big Bear Mine, as I
12 understand, Co-op started that in 1986. In 1987, there
13 was a definite decline that you could see. In contrast
14 to the natural conditions seen in Little Bear Spring
15 which didn't occur in 1990, 1987, immediately there was
16 a decline in the flow of Big Bear Spring which flows
17 immediately, right immediately down gradient from the
18 Co-op mine.

19 In addition, as Darrel Leamaster pointed out,
20 since those years, since 1987, those curves, discharge
21 curves have all remained low, successively. They never
22 have bounced back like they did prior to 1987. Darrel
23 showed you what had happened just for one year. Well,
24 this shows several years from 1983 to the present. And
25 so those springs are continually going down in their

1 yield since 1987. So not only have they been affected
2 by the drought, Big Bear Spring been affected by the
3 drought just as Little Bear Spring was, but also it's
4 been affected by the fact that water has been
5 intercepted out of the ground water system by the
6 mining operations, brought to the surface and dumped
7 into the stream.

8 MR. CARTER: Why would it flatten out the peak
9 like that? Why would you have an absence of seasonal
10 peaks?

11 MR. MONTGOMERY: The fact that they are located
12 right, they're in between the recharge area and the
13 discharge area which is the spring, that has affected
14 that natural system that you see operating in Little
15 Bear, and that's the only answer I have. Before the
16 mining operations you had a peak, but now it's pretty
17 much flattened out and stayed flattened out.

18 The water that is diverted from the ground within
19 the mine, is then taken out of the flow path, the under
20 ground flow path that originally existed, and part of
21 that water exited as the Big Bear Spring, and perhaps
22 some of it exited directly where you don't see it and
23 it flows towards Hurricane, or I mean the Huntington
24 creek.

25 As I mentioned earlier, the fact that the

1 intercepted amount of water has increased as the mining
2 operation continues back into the north and back into
3 the aquifer deeper, you have an increased head which
4 allows that water to flow more freely. Now, even in an
5 aquifer with a large storage, coefficients such as the
6 regional aquifer where you don't have impacts show up
7 as readily. Nevertheless, over the long term the
8 potentiometric surface is being lowered by the drainage
9 effect of the Co-op mine, and the effect is really long
10 term on that aquifer in this immediate area, and the
11 spillage from it, which Big Bear is part of that. So
12 that effect is going to be long term. Even though it's
13 slow, it will last over a long period of time.

14 Now, in the studies done for Co-op mine by
15 Earthfax, they have referred to a regional aquifer
16 which they maintain exists below the Blackhawk
17 formation. In fact, the statement was even made that
18 it exists below the contacts between the Starpoint and
19 the Mancos shale, which I don't quite understand,
20 because certainly the Starpoint is part of that
21 regional aquifer. But they make the statement that in
22 their report that the regional aquifer is at a position
23 lower than the contact between the Starpoint and the
24 Mancos. And I don't know of any aquifer units below
25 there within reasonable depth that would actually

1 service an aquifer. The Mancos serves as a very
2 effective seal for this aquifer system.

3 Now, in addition, as this water that is moving
4 through the subsurface is interrupted by the mining
5 operations, not only the flow, part of that water is
6 diverted out of the mine and into the creek where it
7 doesn't continue. But any contaminants introduced can
8 be conveyed by the moving ground water towards Big Bear
9 Spring. And as I mentioned to you, the principal flow,
10 the principal method of flow through the aquifer system
11 is through joints and faults. Even though there's a
12 certain amount in the pinter (sic) granular
13 permeability, it's very small compared to the joints
14 and faults. That's the main avenue.

15 I would emphasize that it would be very important
16 if I was in Co-op Mining's position, to want to know
17 where this discharging water that they're now taking
18 out of the mine naturally exited prior to their
19 operation. Where did it flow and exit to? Certainly
20 there was an exit to it because this ground water that
21 they're intercepting in the mine is high quality,
22 dynamic, not stagnant water. It's moving through. Not
23 only was it active from the very point of infiltration
24 in the recharge area, but it's discharged and spilled
25 from the aquifer system and maintained a good

1 circulation because the water is high quality. And I
2 would think that they would want to know for sure where
3 this water was exiting naturally before they started
4 their mining operations. That should be a big concern,
5 I would think.

6 I believe that covers what I have, but there may
7 be questions later on.

8 MR. CARTER: Thank you. We'll try not to make
9 this too formal. I think we'll allow an opportunity
10 for dialog if that seems to be helpful. And I think if
11 we can get copies of your diagrams that would be real
12 helpful for the record. And I'm assuming we have
13 access to publications, hydrologic publications that
14 Mr. Montgomery mentioned. Great. All right. Mr.
15 Appel, maybe what I should do is let Mr. Smith proceed
16 and let you make a closing argument. I think you may
17 want to respond to what Mr. Kingston has to offer.

18 MR. APPEL: That's what I'd like to do.

19 MR. SMITH: Thank you. My name is Craig Smith;
20 I'm with the law firm of Nielsen and Senior. We
21 represent Huntington Cleveland Irrigation Company and
22 also represented north Emery water users. We share the
23 concerns that have been expressed thus far about the
24 hydrologic consequences that may come about if this
25 permit is granted.

1 We have several different parties, but as I
2 understand the relationship between the Huntington
3 Cleveland Irrigation Company and the Emery, north Emery
4 water users and the Special Service District, is that
5 Huntington Cleveland Irrigation Company is the actual
6 holder of the water rights in this area, and the other
7 entities are purveyors of water that is owned by
8 Huntington Cleveland. And as I understand, north Emery
9 water users provide water to the unincorporated areas
10 of the north Emery areas, but these are rights held by
11 Huntington Cleveland Irrigation Company. And I
12 understand the same thing with the Castle Valley
13 Special Services District, also provides culinary water
14 but these are from water rights and the water rights
15 we're talking about in Big Bear and other springs are
16 water rights that are held by Huntington Cleveland
17 Irrigation Company.

18 It is a nonprofit mutual water company. It is the
19 major holder of water rights in the Huntington Creek
20 drainage. Among other things we operate the Miller's
21 Flat reservoir and the Cleveland Reservoir. So this is
22 a very critical, important thing to all the entities
23 involved because of the scarcity of water and the fact
24 that this drainage is literally linked by mining
25 operations in addition to this operation. We have the

1 Plateau Mining Operation that was mentioned before, and
2 we've filed a protest on behalf of their extension of
3 their permit. We also are impacted by mining
4 operations by Utah Power and Light's mining operations
5 and also by the Skyline Mine. And so everywhere we
6 look we have mining operations, and we have a very
7 limited source of water. And while we, as was stated
8 by Mr. Leamaster, appreciate and understand the
9 importance of the mining industry in our area, in the
10 Emery county area, also water and quality of water is
11 of critical importance to the areas as well. Without
12 water, obviously people couldn't live in or farm in
13 that area. And we provide the water that people both
14 farm and drink in that area.

15 We join in the comments that have been made. I
16 won't make technical comments, I'm not a hydrologist or
17 geologist. But to point out some of the legal aspects
18 under the regulations, the probable hydrologic
19 consequences must be known before a permit can be
20 issued or extended. And that's found in R 645-301-700
21 on the hydrology. I think it's been pointed out, there
22 are questions about the impacts and extent of the
23 impacts on the water rights of -- on the water table
24 and the water rights in this area. And there needs to
25 be further study of that.

1 Also, I'd like to point out in rule R
2 645-300-133.400, cannot permit -- grant permits if
3 material damage will occur to the hydrologic balance
4 outside the permit area. And I know this is fairly
5 new, at least to my experience, I think also to the
6 Board's experience or the Division's experience, these
7 kinds of hearings and concerns, so we're breaking some
8 new ground. But these are of critical importance I
9 think to everyone. And we also would like to -- I
10 guess I have a question. Is any of this permit area in
11 the U.S. Forest or all outside the forest? Would you
12 know?

13 MS. GRUBAUGH-LITTIG: Currently outside the
14 forest.

15 MR. SMITH: Because there are also some more tests
16 and regulations that wouldn't apply, but the BLM, this
17 is partially on BLM property I would guess?

18 MS. GRUBAUGH-LITTIG: There's what we call the
19 federal lease edition, but they don't have that yet.

20 MR. CARTER: For the record, that's Pam
21 Grubaugh-Littig, permit supervisor and responsible for
22 this application.

23 MR. SMITH: I'm not familiar with all the studies
24 that have been mentioned, but I'm familiar somewhat
25 with the mine study and I was a little bit surprised

1 that's not talked about or discussed in the probable
2 hydrology consequences that were submitted by Earthfax
3 engineers in 1993. Those studies are available. I
4 know they're available to everyone because Earthfax
5 used those studies in a critique that was prepared for
6 Huntington Cleveland on the Plateau permit application,
7 or Cyprus application. And I would suggest that
8 critique, even though it is in a slightly different
9 area, contains important information, and ask that that
10 be -- that has been submitted to the Division, and ask
11 that that be considered in some of the technical
12 information that's found there. That's our
13 presentation.

14 I guess to sum it up, we're just concerned that
15 because some of these may be irreversible or take from,
16 as Earthfax found in our critique, some of these
17 impacts may take from tens of hundreds of years to
18 reverse themselves, even if the mining only occurs for
19 a few years. We would just ask that the Division be
20 very prudent in gathering information, and that we
21 understand, we fully understand what the impacts are,
22 and before something is granted, that would impact our
23 water rights. It may be very very difficult once that
24 happens to mitigate these impacts, both water quality
25 wise or quantity wise because of the very limited

1 amount of water in the area. And so, before something
2 is done, we would hope that all of the facts are known
3 to the division. Thank you.

4 MR. CARTER: Thank you. Let me ask a question. I
5 don't want to put you on the spot, but --

6 MR. SMITH: Go ahead.

7 MR. CARTER: This is something I've not researched
8 either, but to the extent, in the event a mining
9 operation intercepts water that's on its way to a
10 spring which is a legal point of diversion -- Jeff,
11 feel free to jump in on this -- does that water lose
12 its identity or does -- I guess what I'm saying is, if
13 Huntington Cleveland owns the water rights and that
14 water is intercepted by mining operations and now comes
15 out the portal instead of coming out a spring, does
16 Huntington Cleveland or the other water right owners
17 retain ownership of the water, or have they lost it
18 because it's coming from some source other than their
19 designated point of diversion?

20 MR. SMITH: I've had some discussions with the
21 attorney general's office and the answer is not very
22 clear on this. You certainly have, as far as an
23 interference, a right to go to the farthest reaches of
24 the drainage to fulfill your water right. The ground
25 water is treated somewhat differently, but there are

1 some of the same thoughts. The answer I got, did get
2 from the attorney general's office, and this is the
3 folks who advised our state engineer, is that they
4 would consider this an interference with the water
5 rights and we could potentially lose that water right
6 unless we were able to put it, you know, obtain a
7 nonuse permit for something like that. They would
8 consider, if this water was taken so you couldn't use
9 it, you could lose it through nonuse for five years
10 under the statute.

11 They were not able to give me a good reading on
12 what they consider the law to be, and my research
13 didn't uncover any Utah precedent as to whether you
14 could then go to this other point of diversion. I
15 would think you would at least need to have the
16 administrative process allow that. So we're in areas
17 that there's not a lot of settled law on, both here and
18 other places. That is some of the questions we have
19 and the question we put in our protest is, where would
20 this water go?

21 Certainly just because someone intercepts it from
22 mining doesn't give them the right to use that water.
23 If they interfere with our water right we have a right,
24 I think, to either obtain another point of diversion
25 and take it that way. And those are some of the

1 questions we'd like to have answered, is where this
2 water will go if it is intercepted in the mine. And so
3 Jeff, do you have a better answer to that question?

4 MR. APPEL: I don't know if it's better, but I
5 think that certainly they can't interfere with the
6 vested water right unless they have a water right of
7 better priority which in this case that's not the case
8 here. There are two components at least to an
9 interference; one is quantity and the other is
10 quality. So we are entitled to have both quantity and
11 quality delivered from our point of diversion, or I
12 suppose a replacement source could be negotiated or
13 money can be paid. That impact on the company
14 shouldn't change because we have historical water
15 rights. If this water is being intercepted, which all
16 of our data shows, and taken out and perhaps dumped in
17 the Big Bear spring, although there is 200 gallons, it
18 may be used for mining purposes. I'd suggest that
19 would impact the quality compared to what it was when
20 the mine was not there. You're also draining the
21 aquifers and sending it out to a different point. So,
22 the idea of treating Big Bear creek might be an option,
23 but certainly we shouldn't bear the cost of that. We
24 need to have the quantity and quality that we
25 historically received.

1 MR. CARTER: Let me say for clarification, that I
2 am not the state engineer. I'm not even an engineer.
3 The Division lacks jurisdiction over the water rights
4 issue. Let me make this clarifying statement for the
5 record. The Division doesn't have an ability to
6 adjudicate claims based on interference of water
7 rights. The Division's job is to determine, now that
8 probable hydrologic consequence document has been
9 submitted by the operator, the Division must generate a
10 cumulative hydrologic assessment, which is -- we take
11 this information that we're getting now, and make a
12 determination, or administrative determination, as to
13 the hydrologic impact of the requested application.

14 And at that point, as you pointed out, we need to
15 determine whether or not we can permit, based upon
16 whether damage -- the terminology was significant
17 damage -- occurs to the hydrology outside the permit
18 area. So that's the limit of the Division's
19 jurisdiction. But my natural curiosity about these
20 things makes me ask these questions.

21 MR. SMITH: We are in kind of a gray area, and I
22 think your question leads to something I'd like to
23 point out for clarification. There really is probably
24 two components to mitigating impacts on the water
25 rights here. One component is most critical to the

1 Castle Valley Special Services District, that's that
2 they don't lose their good quality water, and they can
3 correct me, they don't lose good quality; if they do,
4 there is some sort of treatment or way they can replace
5 that at no cost to them.

6 From Huntington Cleveland we are also concerned
7 about quality, but more concerned about it because we
8 are the holder of the water rights, that we don't lose
9 water quantity, and we could be. The other component
10 is can we get this water, if it is diverted from a
11 spring, can we get this back into our drainage system
12 so we can use this water and get approval from the
13 state engineer to change our point of diversion;
14 whatever we need to do so we don't lose this water
15 right to someone else who comes along and says, this is
16 a new source of water, I'll file on it.

17 Those are the two components. As I notice in
18 mining sometimes they haven't focused. There are two
19 -- these two components and any kind of mitigation
20 that would be satisfactory to all the parties here has
21 to encompass and embrace both those components.

22 MR. CARTER: Thank you. I'm -- what I'd like to do
23 at this point is take a short break and give our
24 reporter a rest.

25 MR. LEAMASTER: You are talking about the impact

1 on the water rights. Water may be moved to the mine
2 portal for our consideration. As far as using it as a
3 potable supply, that becomes a real tough question, and
4 I'm sure the Division of Drinking Water would have to
5 be involved in that. They would approve that, after it
6 had been in the mine subject to possible contamination,
7 as use for a drinking water source.

8 Now, there is some precedent in that regard,
9 because the Hiawatha Mine, they did allow Hiawatha to
10 use water from that mine and also at Park City they
11 have allowed that. But I don't think that we could say
12 for sure that they would allow that to be used as a
13 culinary source because it is questionable.

14 MR. CARTER: Okay. I was city attorney at Park
15 City and I'm very familiar with problems Park City has
16 with their water supply. Let's take a ten minute
17 break, and we'll allow Co-op to make a presentation,
18 and anyone else who wanted to add something for the
19 record, and then we'll allow some closing statements or
20 arguments by Protestants and by the applicant as well.

21 (Whereupon a recess was taken.)

22 MR. CARTER: All right, let's resume the informal
23 hearing. At the break, I was handed a list of
24 attendees at the meeting and several other people have
25 indicated an interest in making a statement for the

1 record. What I'd like to do is allow the applicant,
2 Co-op Mining, represented by Carl Kingston, to present
3 whatever evidence or testimony they would like to, and
4 then after that allow the few other people who
5 indicated an interest in making a statement to do so.
6 And then I think I'll provide time for the attorneys to
7 make closing arguments, because they like to do that,
8 so let's proceed in that manner. Mr. Kingston.

9 MR. KINGSTON: Thank you, Mr. Carter.

10 My name is Carl Kingston, I'm the attorney for
11 Co-op Mining Company. I'll try to keep my opening
12 statement brief, in the interest of time.

13 I do want to make a couple of points. First, I
14 want to dispel a notion that Mr. Leamaster raised
15 regarding Co-op's apparent refusal to negotiate.
16 That's never been Co-op's policy and won't be Co-op's
17 policy. I don't anticipate that the remarks will
18 become heated, but if they do, I want to let Mr.
19 Leamaster know we are always open to negotiate and
20 discuss. Our position at this hearing is basically
21 this, with regard to the Protestants. We filed the
22 application to amend the permit. We never heard from
23 anybody. The day before the comment period expired,
24 then we received a protest. So, it certainly hasn't
25 been our unwillingness to negotiate or discuss. We

1 haven't heard any objections from anybody until the
2 protests were received formally through the mail.

3 The second point I think that is important, Mr.
4 Carter, is that all of the evidence presented by the
5 Protestants go to alleged impact from the mining and
6 the Blind Canyon seam. The issue today is very narrow,
7 and that is what hydrologic impact, if any, will occur
8 if the permit is amended and the tank seam is mined.
9 None of the evidence has indicated any possible impact
10 from mining in that seam. Now, when we received the
11 protest, we met, and quite frankly we were a little bit
12 dumbfounded to think that anyone would have any reason
13 to protest, and we wondered what would the objections
14 be. And after hearing the evidence today, I can see
15 that our initial concern and wonderment was well based
16 because there is none.

17 The alleged impacts concerned the mining in the
18 Blind Canyon seam which they are currently mining, they
19 don't go to any possible impact from the tank seam.

20 We will have witnesses make statements and they
21 will address those concerns, even though they are
22 concerns regarding the current mining and don't really
23 address or concern the intended mining in the Tank
24 Canyon seam.

25 But basically, just for the record, what Co-op

1 Mining Company intends to do, and what they have
2 petitioned the Division to do through the amendment, is
3 to mine a seam of coal that is directly above the seam
4 of coal they are currently in, within the same permit
5 area. And they are going to do this in such a way,
6 it's fairly unique, but in such a way that will create
7 the least impact possible to the surface or to the
8 environment. And our studies have shown there will be
9 absolutely no impact to the hydrology.

10 What they are proposing to do is construct a road
11 from the existing surface faults, where they're mining,
12 up to the Tank Canyon seam, and my understanding is
13 that's about 250 feet directly above the Blind Canyon
14 seam. They will construct a very minimal pad area,
15 just enough to get the equipment in there and for the
16 portal. And in mining the Tank Canyon seam, what they
17 are going to do is, once they get inside that seam,
18 tunnel down from inside down to the Blind Canyon seam,
19 so that all of the coal that will be mined from that
20 Tank Canyon seam will be conveyed through that tunnel
21 or shaft, and then conveyed out through the current
22 tunnel area on the existing belt and conveyance
23 system. So there will be no surface impact except for
24 the road to get up and a little portal area.

25 Now, as most of the Division members will recall,

1 current director excluded, we did have a protest, and
2 these same issues were raised about two and-a-half
3 years ago by the same Protestants. As a result of that
4 protest, Co-op Mining Company spent literally thousands
5 and thousands and thousands of dollars in conducting
6 studies, performing tests, and doing research work to
7 find out just what possible impact, particularly
8 hydrologic impact, the mining activity would have. And
9 as the people who are here today that testify will
10 state, that hydrologic impact in the past has been
11 minimal, and that impact in mining the Tank Canyon seam
12 will be almost nil. In fact, all of our evidence shows
13 there won't be any.

14 What we have done, we've drilled, I believe it's
15 eight separate holes up in the Blind Canyon seam where
16 they are currently mining, up into the tank seam, and
17 even through the tank seam, to find out what water will
18 be encountered in the tank seam, and essentially that's
19 dry. The eight holes, I think seven are either dry
20 completely, or they yield less than one tenth of one
21 gallon per minute of flow. The other hole yields .5
22 gallons per minute flow of water.

23 So essentially, when they mine that seam, it's
24 going to be dry, they won't encounter water, or even
25 enough water to cover what needs they have to carry on

1 mining activities. They anticipate they will have to
2 pump water from the Blind Canyon seam up to the tank
3 seam.

4 Also, our tests have shown, and our geologist will
5 so testify, that the water that has been encountered in
6 the Blind Canyon seam is not the same water that feeds
7 the Birch Spring or the Big Bear Spring or any of the
8 other springs or water sources that go into the
9 protestant's water system.

10 Now, I also want to state that the employees of
11 Co-op Mining Company, along with the management, they
12 live in the area, they drink water too and they're
13 concerned about the water quality. And that again
14 leads to my earlier statement that they're certainly
15 willing to negotiate because of the concern they have.
16 They drink the water, they use the water, and if there
17 is something there that they can do to improve the
18 system, they're certainly not unwilling to do that as
19 long as everyone has an open mind.

20 And there was also a question raised regarding
21 that water quality. The water quality of that water
22 that has been encountered is superior to that in Big
23 Bear Spring. It has been approved by the Utah Board of
24 Health and that water is being used for culinary
25 purposes there at the mine site by the people and those

1 who live nearby. So there's nothing wrong with the
2 water quality.

3 Now, they have done tritium tests. We have
4 drilled a number of wells, monitoring the springs,
5 monitoring wells, and all of the evidence that we have
6 been able to uncover scientifically shows that the
7 water that they have been going through has been --
8 well, I was going say new water, but that's a misnomer,
9 because it's older water than anything there. It's
10 been perched water, sitting there hundreds of years
11 probably. And the water they have encountered at the
12 Bear Canyon mine, it was there when they started, it's
13 there now, but it's not water that goes in to the
14 tributaries that feed the Huntington Cleveland
15 Irrigation District or the Castle Valley Improvement
16 District's water. The water there is new, in a sense
17 that it's different from that. By developing the mine,
18 they have actually developed additional water, and it
19 hasn't diminished the spring flow or anything else.
20 That's a result of our droughts, and our experts will
21 cover that.

22 And the quality is better than what's out there.
23 The discharge is going back into the system so it's
24 actually been a plus or benefit to the mining
25 operation.

1 But the main thing that I want to stress to the
2 Division now, is that the evidence really doesn't go to
3 the issue. There hasn't been anything to show by going
4 into the same permit area and simply mining a seam
5 above the existing seam will have any hydrologic impact
6 at all. And in the manner they are going to do it, it
7 will create the least disturbance of any surface area
8 as a resource that should be mined.

9 I think that I'll ask John Garr, who is a
10 geologist with Earthfax, to make a statement next.
11 Earthfax is an independent firm, I think highly
12 respected in the area and knowledgeable. They have
13 done some tests. We also have Mr. Richard White who is
14 also with Earthfax, who is a geologist. If necessary,
15 he can also offer statements or answer questions if
16 anyone from the Division has questions, or if any one
17 of the Protestants or anyone else here in this room has
18 questions regarding the hydrology or geology, they can
19 address those to Mr. White or Mr. Garr. After Mr.
20 Garr, I'll ask Mr. Charles Reynolds to make a
21 statement. He is from Mangum Engineering, also an
22 independent firm. So with that, I'll ask Mr. Garr to
23 come forward and make a statement.

24 MR. CARTER: All right.

25 MR. GARR: My name is John Garr, I'm with Earthfax

1 Engineering, I'm a geologist. I've been working on the
2 Co-op project for about two, two and-a-half years. We
3 also have a graph which -- let me first say that Mr.
4 Smith was surprised that we hadn't cited the work in
5 our PHC. It is in fact cited in the PHC and in the
6 revised evaluation reports. Our graph shows average
7 annual spring flow at Big Bear Canyon Spring starting
8 in 1980, and compares that with average regional
9 precipitation as measured at five stations by the SCS
10 and National Weather Service. This shows that here in
11 yellow, is annual average precip.

12 Mr. Montgomery would have us believe that '82, '83
13 conditions were baseline, and in fact those were peaks
14 as shown here, and many people who lived here at the
15 time remember. Also, mining began in 1983, not 1985.
16 And seasonal fluctuations, according to Mr. Leamaster,
17 were evident during those years.

18 This clearly shows that there is a lag of
19 approximately two years between peak precipitation, and
20 peak stream flow or spring flow at Big Bear Canyon
21 Springs. And that the decline in spring flow has
22 pretty well matched the decline of precipitation.
23 There's concern that the previous wet years have not
24 brought the spring back up to their proper level of
25 flow, or normal level of flow. We interpret that to be

1 because there is a lot of recharge that has been
2 released during this drought of six years that's got to
3 be built back up before normal spring levels or spring
4 level flow up here is going to recur. That could be
5 1995, 1996. There may be more than the two year lag
6 time here, maybe much more, because we are rebuilding
7 the recharge that was released during the drought.
8 This spring is doing exactly what one would expect it
9 to do.

10 We have done some tritium dating, and that the
11 results of the tritium dating show that there are 17.2
12 tritium units in Big Bear Spring water. Current Utah
13 rainfall, rainwater levels are 10 to 12 tritium units.
14 Rainfall prior to bomb tests from '63 to '69, if it
15 fell in '52, we would have .95. Birch Spring is 1.12.
16 Water from the north mains drippers (sic) is .9, and
17 floor water north mains is 1.46.

18 That suggests that's all old water, pre-bomb water
19 and may be very old indeed. The Big Bear Spring water,
20 at 17.2, more closely matches the kind of tritium level
21 you would expect in current precipitation. Therefore,
22 water in the aquifers that are perched above the mine
23 is old water. The water in the Big Bear Spring is
24 young water. For that to be, because it's greatly
25 influenced by local precipitation, produces from the

1 joints, recharge is probably very local, not distant,
2 as it is for the aquifers we found below the mine that
3 have older water.

4 I'll sit down now.

5 MR. CARTER: Let me ask a question about tritium.
6 This is a new concept. Tritium only appears in
7 atmospheric water since open air testing?

8 MR. GARR: There's always been natural occurring
9 tritium, and during active bomb testing from '53 to '69
10 tritium concentrations were greater than 1,000 tritium
11 units. It has a half-life of 12.26 years, and because
12 they have stopped open air testing, the current
13 rainwater levels are 10 to 20 tritium units in Utah at
14 this elevation.

15 MR. CARTER: Okay.

16 MR. GARR: As I said, the issue, the tank seam has
17 not really been addressed very much by water
18 companies. As Mr. Kingston said, there are eight
19 exploratory holes, seven of them had .1 gallon per
20 minute flow, one in the north end of the mine had .5
21 gallon per minute of flow. Because there are no
22 springs occurring between the Blind Canyon seam and the
23 tank seam, which is 250 feet above the Blind Canyon,
24 because there was so little flow through those
25 exploratory holes, we really do not anticipate that

1 there will be much water encountered in the tank seam,
2 and in fact, they will have to pump water up from the
3 Blind Canyon just to help with dust suppression.

4 The only water that will be lost from this system,
5 if minimal water is encountered in the tank seam as we
6 believe, and if they pump water from the Blind Canyon
7 up to the Tank, will be that which is taken out with
8 the coal, which is normal. All the other water will be
9 used for dust suppression, and reintroduced into the
10 regime.

11 I think that's all the points that I have to
12 make.

13 MR. CARTER: Your conclusion, based on the tritium
14 dating, is that the water that was encountered in the
15 Blind Canyon seam is old relic perched water.

16 MR. GARR: Yes. Our contention all along in all
17 the documentation.

18 MR. CARTER: And not the same water that's coming
19 out of Big Bear Spring?

20 MR. GARR: Right, they are different waters.

21 MR. CARTER: Is there any dilution effect, I mean

22 --

23 MR. GARR: You certainly have a contribution of
24 some older water with very low content to some newer
25 water with higher content. Tritium dating is not an

1 exact science. All we can say is that tritium counts
2 in these older waters are very low, and suggest very
3 old water. In the Big Bear Spring, waters are in line
4 with modern counts.

5 MR. CARTER: Okay. I think I understand.

6 MR. KINGSTON: John, there has been some
7 discussion with Mr. Montgomery regarding a regional
8 aquifer. What do your studies show with regard to that
9 regional aquifer?

10 MR. GARR: The question about the regional aquifer,
11 we feel, is not terribly important to this issue or the
12 Blind Canyon seam or conditions at Co-op in general.
13 It is to us a matter of semantics between Mr.
14 Montgomery's definition of a regional aquifer and
15 ours. We have done site specific studies, and put
16 three on line monitoring wells and conducted aquifer
17 testing on all the aquifers encountered. And a
18 question of a regional aquifer, as far as a water table
19 which cuts across all the lithologies across that
20 graben, there is no such thing. There are three
21 separate, distinct aquifers present below the mine.

22 Therefore, I suppose you could call the water
23 table in the Panther a regional aquifer, but it really
24 doesn't enter into our case.

25 MR. CARTER: Okay. Thank you. You check to see if

1 the microphone is on? I think it was not.

2 MR. REYNOLDS: My name is Charles Reynolds, I'm
3 with Mangum Engineering Consultants, and I've been
4 involved with the Co-op Mining Company for the past
5 couple of years in taking care of their on-site
6 compliance.

7 And maybe first I'd like to just address a couple
8 of questions that have come up. First of all, in
9 regard to the water rights, Co-op Mining Company
10 operates under shares which have been purchased by
11 Huntington Cleveland Irrigation Company, so the rights
12 of the water used at the mine are owned by Huntington
13 Cleveland.

14 And there was a concern regarding the tank seam as
15 to whether Co-op Mining Company has adequate shares to
16 cover the usage. The mining in the tank seam is meant
17 to replace a lot of the tonnage currently mined in the
18 Blind Canyon seam, because currently we've reached the
19 permit boundaries in the Blind Canyon seam. And the --
20 there will not be a significant increase in the current
21 usage for that. That usage is annually reported to Mr.
22 Barton Wilson with Huntington Cleveland Irrigation, and
23 that usage has been well within the shares that Co-op
24 currently uses their water under. And any excess water
25 encountered in the mine that is not used is discharged

1 back into the drainage system, which Huntington
2 Cleveland Irrigation currently operates out of.

3 Now, perhaps I'll expand a little bit on some of
4 the testimony that John Garr was talking about, within
5 the Starpoint sandstone, as Bryce Montgomery referred
6 to as regional aquifer. The testing in each of the
7 wells showed that within the Starpoint sandstone, which
8 Mr. Montgomery mentioned, we had three distinct
9 tongues, the Storrs, Spring Canyon, and Panther. We
10 found in each tongue of the sandstone a separate and
11 distinct aquifer on a separate and distinct piezometric
12 surface running through them, which would indicate
13 perched aquifers versus one regional aquifer though the
14 whole area.

15 At that level, and as John Garr mentioned, it may
16 be that perhaps the level in the Panther Tongue, or
17 even somewhere below that, you could find a regional
18 aquifer or regional water table. But what we found in
19 our drilling, was that in each of these formations
20 there were three separate and distinct piezometric
21 surfaces. A lot of this research, in fact all of this
22 research has been done in trying to look at the
23 possible effects of the existing mining operations.
24 But the issue that we're looking at, which is amending
25 the permit application to include the tank seam, again,

1 this mining is 250 feet above the existing mining, and
2 is essentially dry, as Mr. Kingston mentioned.

3 One other comment I might add. As far as the
4 drinking water, also as Carl mentioned, Co-op Mining
5 Company currently has a drinking water setup, it is
6 approved by the Drinking Water Division. The source
7 comes out of the mine, and there is no treatment
8 required on that source. We do not chlorinate; we do
9 not treat it in any way. The water as it comes out
10 meets all drinking water standards.

11 That is basically the extent of my comments. And
12 if there's any other questions I can certainly address
13 those.

14 MR. CARTER: All right. Thank you, Mr. Reynolds.
15 I think what I'd like to do at this point is give the
16 other people who indicated they would like to make a
17 comment the opportunity to do so. And then I think
18 I'll return to the Protestants to add whatever they
19 would like to, and make a closing statement. Unless
20 you have -- let's proceed that way, and then we'll
21 allow the applicant to make their closing statements.

22 Mr., is it Stoyanoff, who's with North Emery Water
23 Users Association, indicated an interest in speaking.
24 Come on up.

25 MR. STOYANOFF: My name is Jack Stoyanoff, I'm the

1 manager for North Emery Water Users.

2 MR. CARTER: Thank you.

3 MR. STOYANOFF: We'd like to express a concern
4 about our Birch spring. We developed that spring in
5 1983 at the cost of approximately \$60,000. And at that
6 time the reason they developed that, there was a good
7 stream of water coming out of that canyon. It was
8 estimated to be about 200 gallons a minute.

9 When they developed it they didn't get all the
10 water. We were getting somewhere between 70 and 100
11 gallons a minute. And so it wasn't turned in the
12 system right away. We went back and developed it
13 again, or went back and looked at it again, dug down
14 and looked for that water that was missing, and found
15 that there wasn't any other water in there. So when we
16 turned it in the system, there was probably about 70
17 gallons a minute, and it would peak up to about 100
18 gallons a minute, and drop down to about 55 gallons a
19 minute.

20 We don't have records before 1989, but in 1989
21 there was a big flush that happened up there. In
22 September of 1989 we were flowing about 80 gallons a
23 minute, and all of a sudden the water went from 80
24 gallons a minute to 240 gallons a minute overnight.
25 And the way we found out about it was our customers

1 were calling us saying the water was dirty. So we
2 investigated, found that the collection box up there
3 was full of sand and dirt. There was 240 gallons a
4 minute coming out of the springs, plus an additional
5 about 120 gallons a minute coming down this spring.
6 That flow continued for about four months.

7 And then, as you can see on that graph I gave you,
8 in January of '91, it just started dropping off, or of
9 '90, dropped off and went back down to about 70
10 gallons a minute.

11 The two years that we kept records there, it
12 peaked between 80 and 100 gallons a minute, and the
13 last three years, or two and-a-half years, it's dropped
14 down to -- well, it was about 30 gallons a minute, now
15 it's down to 24 gallons a minute, and we don't see any
16 peak in it at all. So we are concerned about the
17 mining operations up there. We feel that probably a
18 lot of the damage has already been done. Nobody's ever
19 been able to explain that flush to us.

20 I also had a question. If I wasn't mistaken, the
21 geologist from the Co-op said that the Bear Canyon
22 spring was new water?

23 MR. CARTER: I think what he was attempting to
24 point out is that tritium dating of the water suggested
25 that the Bear Canyon Spring water is water that was

1 precipitation falling recently, in the last few years,
2 rather than water that had been sitting in place for
3 many years.

4 MR. STOYANOFF: Did that spring come up this last
5 year, Darrel? Seems to me if it's new water, it should
6 have. Our canyon springs is new water, and when you
7 get runoff it peaks.

8 MR. CARTER: I think I understood the rest of his
9 testimony to be that there's up to a two year delay in
10 increase in precipitation, you don't -- I think what he
11 was suggesting is that after precipitation increases,
12 it may take a few years to see increased spring flows,
13 that the water is not water that fell that very winter
14 but that it's water that, at least relatively is new
15 water as opposed to the water they -- testimony was
16 they encountered in the mine, which again, their
17 conclusion was that water was sitting in place for
18 years, tens of years.

19 MR. STOYANOFF: Okay. Only other comment I have
20 is when that flush happened, you ran some samples of
21 the water and there was oil and grease found in the
22 water and also chloroforms found in the water at that
23 time.

24 MR. CARTER: That's very odd to have a big increase
25 flow in the middle of the winter unless it was an

1 overload flow of essentially surface water.

2 MR. STOYANOFF: Two and-a-half years ago when we
3 had that protest down in Castledale, we had also hired
4 Bryce, and he said at that time he figured that what
5 probably happened is they had been pumping water into
6 old mines or something like that. It built up a
7 reservoir and found a channel finally, and that channel
8 was our spring; it came down through that channel.

9 MR. CARTER: Mr. Kingston, did you want to make a
10 comment?

11 MR. KINGSTON: I do, your Honor. This is a little
12 bit new area. We would want to address that probably
13 through either our hydrologist or geologist. This was
14 covered in previous hearings, but for your benefit I'd
15 like to have one of my experts address that.

16 MR. CARTER: Let's do that now, unless -- do you
17 have anything further? Keep this fresh in my mind.

18 MR. GARR: As far as sampling of Birch Spring is
19 concerned, I witnessed sampling around there in the
20 fall of 1991 by North Emery Water Users Association,
21 and if that's any indication of how the well water or
22 the spring water has been sampled in the past, there
23 are readily explanations for any water quality concerns
24 encountered there. I witnessed the worker open the
25 spring collection box, drain it fully and refill the

1 box, rather than collect directly from the discharge
2 pipe that goes into the spring box. The pipe was
3 closed off, box was refilled, and he took -- he had
4 been operating a backhoe just prior to this. Had
5 jumped off the backhoe to come collect the sample.
6 Stuck his ungloved hand into the water and submerged
7 the bottles, which had preservatives in them, fully
8 submerged the bottles in the standing water.

9 That's not any sampling protocol I'm aware of, and
10 any oil and grease that might have been on his hands
11 could have been introduced. As I say, preservative
12 would have been either diluted or removed from the
13 bottle. An ungloved hand could introduce fetal
14 chloroform along with any number of substances that
15 could get in that sample. The sample was taken by
16 representatives of the laboratory where the analyses
17 are done. They had no ice in the container, and we
18 don't know what happened to the samples from that point
19 on, but the protocol was not by any means adequate.

20 MR. CARTER: Any explanation with regard to the
21 sudden increase in flow?

22 MR. GARR: Was discussed, that's been discussed
23 several times now, in hydrogeologic evaluation reports,
24 and there's -- I don't think anyone is certain what
25 happened there. It's certainly not related to anything

1 at Co-op Mining, and we have discussed that time and
2 again in the past.

3 MR. CARTER: Still a mystery. All right. Thank
4 you.

5 MR. KINGSTON: This same issue, I should also
6 point out, it may have some relevance, it may not.
7 North Emery Water Users also attempted to blast that
8 spring to increase the flow, and apparently that was
9 done. It actually had a decrease or negative effect on
10 the flow of that water and had nothing to do with Co-op
11 Mining.

12 MR. CARTER: Mr. Stoyanoff?

13 MR. STOYANOFF: Yes, I'm the only operator that
14 North Emery has and I've never sampled water that way.
15 Every time I take a sample out of that water it comes
16 out of the overflow pipe, and I sample it every other
17 month now for chloroforms.

18 MR. REYNOLDS: Maybe to elaborate on that a little
19 bit, the sample was being taken by CT & E for Co-op
20 Mining Company, because we do monitor both Birch and
21 Big Bear springs. At the time that sample was taken,
22 it was being collected for Co-op Mining Company, and it
23 was collected by Jack, a representative of CT & E and
24 given the bottles to Jack.

25 MR. CARTER: Well, I don't know that we need to

1 sort this out necessarily. So, the next person, Varden
2 Willson with Huntington Cleveland Irrigation Company
3 indicated a desire to go on the record.

4 MR. WILLSON: My name is Varden Willson, secretary
5 for Huntington Cleveland Irrigation Company.
6 Huntington Cleveland company has the filings on the
7 Huntington Creek for the first 392 feet of water.
8 Huntington Cleveland company is a stockholder owned
9 company. The mining operations can, and in the past
10 has affected two culinary water systems, Castle Valley
11 Special Service District, and North Emery Water Users.
12 Castle Valley Special Service District supplies water
13 to Huntington City, Cleveland and Elmo town with
14 drinking water, and our stockholders in the Huntington
15 Cleveland Irrigation Company, in order to have water
16 rights for their water to deliver it.

17 Castle Valley Special Service District has Big
18 Bear Spring in Bear Canyon near the Co-op mine portal,
19 and they feel that the Co-op mine has affected their
20 water flows from the spring in the past number of years
21 from 50 to 60 gallons per minute. North Emery Water
22 Users are stockholders in Huntington Cleveland
23 Irrigation Company. North Emery Water Users have
24 developed and used the water from what they call Gate
25 Spring or also known as Birch Spring. According to

1 some North Emery Water Users' data, on October the 2nd,
2 1986, Birch Spring flowed 70 gallons per minute. On
3 10/19 of '89, Birch Spring flowed 150 gallons a
4 minute. The water was dirty and could not be used in
5 the culinary systems in the increased flow. At the
6 present time the Birch Spring is flowing about 24
7 gallons a minute.

8 Huntington Cleveland asked several questions in
9 their protest letter as follows: According to the mine
10 plan, how much water will be intercepted in the mining
11 operation? How much water will be used in the mining
12 operation inside the mine? Where will the excess water
13 intercepted go? What will be the quality of the water
14 that is diverted from the mine operation? Does Co-op
15 mine have enough water shares allocated to the mining
16 operation to cover the water use that's used in the
17 mine? They own water, but is there enough allocated to
18 cover it? This year they had 45 shares allocated, that
19 would deliver about 14.85 acre feet.

20 I've heard rumors or I don't know for sure, that
21 there is about 200, 250 gallons per minute used in the
22 mine. If it's 250 used in the mine, or 225, that's
23 about a quarter a second, a half a second foot of water
24 a day. And if you divide that by 30, cut it in half,
25 you have 15 acre feet they use of water in one month

1 that's allocated out of their shares.

2 So we have some questions. Maybe my figures isn't
3 right on the 200 gallons per minute that's used in the
4 mine, but we would like to know. Huntington Cleveland
5 would like to see the proposed water plan for dust
6 control in the mine that is submitted to OSHA for each
7 machine such as continuous miner, rough bolting
8 machines, belt lines, hauling, a road to the mine, and
9 stockpiles, the water they use there. Also the amount
10 of water they use at their living quarters in Trail
11 Canyon and in Bear Canyon.

12 We would like to see how much water is used. We
13 would like to see this OSHA plan they submit to OSHA on
14 how much water they use there for the dust
15 suppression. These are the concerns of Huntington
16 Cleveland. Co-op Mine does own shares in our company.
17 They have enough shares to cover them, but it's used in
18 other areas. We feel that the 45 shares are not enough
19 allocation to take care of their usage, so Huntington
20 Cleveland is very strong about this.

21 Mr. Reynolds made a statement that they submit us
22 a report on how much water is used. For two years we
23 did not get that report. We have written and asked,
24 but for two years we did not get the report. So this
25 is something else to clarify some of that. And this is

1 our statement from Huntington Cleveland. Thank you.

2 MR. CARTER: Okay, thank you very much. Again,
3 before we get too far afield, I want to make sure
4 everyone understands the Division doesn't have the
5 ability to adjudicate disputes or concerns about excess
6 water usage, or adequate rights to divert water, those
7 kinds of things. The inquiry we need to make, and
8 answer is, will the application to mine in the tank
9 seam adversely effect the hydrology off the site in a
10 way that would prevent us from issuing that permit.
11 So, we appreciate your concerns. I would like to think
12 those kinds of questions would be more easily answered
13 than the question of what will happen when you mine in
14 an area you're not currently mining in. So thank you.

15 That's it for everyone who indicated an interest
16 in making a presentation. I think what I'd like to do
17 now is allow Mr. Appel and Mr. Smith and Mr. Kingston
18 to make closing arguments or statements on behalf of
19 their clients.

20 MR. APPEL: Mr. Kingston has indicated we have been
21 before the Division and the Board several times on this
22 issue. The problem is it hasn't gone away. The
23 frustration of my client and I think the irrigation
24 companies and cities down there is that Co-op is unlike
25 Plateau and Genwal and some of the other mining

1 companies. Co-op's approach is one of apparent denial
2 they have anything to do with any problems occurring
3 down there. The first line of defense, it didn't
4 happen, that our measurements are error. The second one
5 is, if it did, it had nothing to do with us, it's not
6 Co-op's fault. And many of those sounds like excuses.

7 I suppose it's going to be up to the Division, or
8 some department perhaps, cooperative departments within
9 the Department of Natural Resources to figure out who's
10 going to deal with this particular problem. I'll allow
11 for the fact there are overlapping areas of authority,
12 and perhaps even some cracks into which these sorts of
13 issues may fall, but I think you have a department in
14 place who might be able to seal those cracks.

15 With respect to the tank seam, I recognize that's
16 the apparent narrow issue, but I think under your point
17 of impetus that the regulations give you to do with
18 cumulative impacts, Section 645-193.400, that is
19 cumulative impacts to the hydrologic resource, you can
20 get into this. You need to know what's happened before
21 to create a baseline with respect to what's happening
22 in the future cumulative impacts, and you need to look
23 at those.

24 With respect to the tank seam, they may be dry as
25 they say. Of course dry, when they say dry, they mean

1 there is only some water. Our concern is the
2 contamination that's going to occur. It's at the top.
3 There are joints and fractures. We believe that
4 through those joints and fractures, there will be
5 communication potentially of contaminants in to the
6 source. If that hasn't been dealt with, you need to
7 answer that particular question.

8 They have indicated they are going to take, as I
9 understand it, take the coal out through a tunnel, and
10 take it out the Blind Canyon mine portal. That's
11 fine. That means they are still using the Blind Canyon
12 mine as a source. There's going to be contamination
13 down there and that is much lower. It could be a new
14 use there. Certainly the water is tributary through
15 this. While geology, you know, is not necessarily an
16 exact science, you can fairly well guess if you have
17 the correct drill holes and you investigate carefully,
18 there may be a need to do that, but the water that goes
19 -- lands on the surface and communicating through the
20 stratigraph is tributary.

21 They are going to pump water up from the bottom,
22 where will that water go? It may be dry at that
23 level. It's not going to be dry when they are pumping
24 water up for mining purposes. What's going to occur
25 with respect to that? It's higher in the sequence,

1 going to fall down through the faults, fractures and
2 joints. That's an unanswered question at this point.

3 I've mentioned I think you need to deal with
4 cumulative impacts. To focus on the tank seam and
5 ignore the remainder of the Co-op operation, I think,
6 is artificially narrow. I think you need to look at
7 the effect of all of this.

8 Certainly, Protestants you have heard are going to
9 have to force some department to look at this issue,
10 because we believe we have a problem with our sources.
11 We also believe that we have demonstrated impact based
12 upon what you have seen today of the prior mining. The
13 water taken out of the mine has increased since 1991,
14 from a small amount to 500 gallons per minute. They're
15 intercepting something. They say it's perched water,
16 and we say that it likely is not. You have legitimate
17 experts whose conclusions are diametrically opposed,
18 seems to me, and that's something the Division has to
19 resolve. And those conclusions relate to the nature of
20 the aquifer apparently, the tributary nature of water,
21 what water is which.

22 I'd suggest that despite the testing that
23 occurred, this probably isn't colored water, and there
24 is a way to answer this particular question. We have
25 indicated some problems with the studies. Co-op has

1 suggested that they have drilled many holes, they have
2 drilled a number of holes. Our problem with that, is
3 that we believe the studies are incomplete, not
4 followed to their logical conclusion. They realize
5 they're in the path of tributary water which comes out
6 in these various springs, and likely enters Huntington
7 Creek in that side canyon, but they are not asking
8 themselves the hard question: What happens? They just
9 know, they take it out, and it goes back into the
10 creek.

11 I think we need to review that.

12 They have indicated that they are using water at
13 the site, approximately 200 gallons per minute in the
14 mine. I don't know what's happening to that water.
15 The concern of mine use water creates concerns for me
16 with respect to contamination. There's also an issue
17 of who owns that particular water. They have some
18 shares in Huntington Creek Irrigation or Huntington
19 Cleveland Irrigation Company. You have heard the
20 concern by the others, that they are using too much
21 water. They filed a change application, based upon
22 those shares, but as you know, that priority is junior
23 to that of the company. If they are interfering with
24 these other supplies, then it should cease or they need
25 to find a replacement source.

1 Another issue which comes up within Ted Stewart's
2 purview is not necessarily your own or the state
3 engineer's, that they have filed any sort a change
4 application to pump this water up to the tank seam.
5 Without that, this is not technically complete. I
6 don't know the answer to that question. They may have
7 done that. They suggested that the quality of water
8 that they are intercepting is better. What this makes
9 me wonder is why the quality downstream is worse, and I
10 think that's a question that needs to be answered.

11 Obviously from -- I mentioned before, we're not
12 sure which department has the authority or if the
13 Division has the authority over this. The department,
14 I believe, does. There may need to be communication
15 with the Health Department, Safe Drinking Water
16 Committee about this, but I'm sure that can occur. You
17 need to decide here whether or not the tank seam is--
18 should proceed. What we would like to do, and we ask
19 you for leave to explore some of these various issues,
20 you have a decision period, and we'd like to aid you in
21 that.

22 Some new issues have arisen that we didn't know at
23 the time we protested, and I think we can shed some
24 light on this, and you need to have the benefit of both
25 sides to help answer these questions. We would

1 supplement, with respect to water quality, the
2 connection between the tank seam and the Blind Canyon
3 seam to our springs, suggest what additional data,
4 perhaps drilling, needs be accomplished to fully answer
5 these questions, and we can give you some insight on
6 the lack of completeness we think is exhibited by their
7 documents that they filed.

8 Thank you.

9 MR. CARTER: Thank you. I'm going to need to take
10 your request for additional time to supplement the
11 records under advisement and consult with our
12 assistants, AG's, to determine whether or not we're
13 able to do that.

14 MR. APPEL: We have done it before.

15 MR. KINGSTON: With stipulation of all parties.

16 MR. CARTER: Mr. Smith.

17 MR. SMITH: Thank you. Huntington Cleveland
18 Irrigation Company would like to join in the request
19 for supplementation, and I guess we'll be a little bit
20 surprised if that's opposed. And the reason is because
21 I think we have -- the Division has a very important
22 decision before it. It's a decision of almost first
23 impression. The consequences are high because of the
24 importance to both parties. It's certainly important
25 to Co-op Mine. They continue their mining operations,

1 and everyone understands that. But it's equally
2 important to the water purveyors that we continue to
3 have good quantity and also good quality water to
4 provide for those critical uses, including those of
5 Co-op mines, who are shareholders in Huntington
6 Cleveland.

7 Because of the importance of this issue, I think
8 all parties would be served by the best information to
9 the Division, and that as much as can be known about
10 this aquifer and about the consequences and impacts of
11 mining be known, so that the ultimate decision is able
12 to -- the Division is able to balance these interests.
13 And if there are impacts, to come up with a proper
14 mitigation requirement to mitigate those impacts. If
15 they turn out there is no impacts, then we can rest
16 assured we are not going to lose our critical water
17 supply that services all the people, including those
18 that work for the Co-op mine.

19 There have been some new questions raised in this
20 issue today. We fully understand that maybe some of
21 those are technically outside the Division's
22 responsibility, but as Mr. Appel pointed out, they're
23 within the department's responsibility. But as I
24 pointed out, the regulations -- Mr. Appel also pointed
25 out regulations -- there are important hydrological

1 questions that are before this body. Also, whether
2 there are adverse impacts before this body, or before
3 you, Mr. Carter, I guess. You're up there alone,
4 before you and your staff. And I think it behooves
5 everyone to resolve those through the best information
6 possible at this level, rather than having to go on to
7 other forums and other places. And we appreciate the
8 opportunity to air our protest today, and thank the
9 Division for that. Thank you.

10 MR. CARTER: Thank you. Mr. Kingston? This has
11 taken a formal aspect, hasn't it?

12 MR. KINGSTON: I'll try to be less formal, then.

13 MR. APPEL: Loosen your tie.

14 MR. KINGSTON: We haven't agreed or stipulated to
15 any continuance or extended time for submitting
16 additional information, your Honor, we're running into
17 a severe time restraint. If the coal in the current
18 mining is running out, they have to move to a new area
19 or start pulling pillars, and that's going to prevent
20 them from later going back in further north which is
21 also an application pending before the Division. There
22 hasn't been any new information. In fact, 99 percent
23 of the issues raised today were raised two and-a-half
24 years ago. The Protestants have had, I think it's a 30
25 day period of time, to protest. They have an

1 additional time here to prepare for the hearing.
2 They're at an advantage over us, because we don't know
3 what the protest is, other than what they state in the
4 written protest.

5 All of the issues raised in the written protest
6 have been answered; the information provided to the
7 Division, they know what the issues are.

8 They -- I again want to state, the issue here is
9 very, very narrow, and that is what impact, if any,
10 will mining the tank seam have on the hydrology in the
11 area. And there simply hasn't been any evidence at all
12 that there will be any impact. It's been to the
13 contrary. There's very little water there.

14 And I was surprised by Mr. Appel in his statement
15 regarding contamination of water, that's going to
16 happen to the water pumped up to the tank. See, all of
17 that water will be used in the mining process, used for
18 dust control. There will be no discharge from the tank
19 seam. That water, what is used, will be taken out with
20 the coal as dust control, and it won't get into any
21 stream or spring that feeds the tributary to the water
22 sources of the Protestants.

23 The information regarding the amount of water
24 generated or produced or used or discharged has been
25 very erroneous. Co-op Mining does monitor both the

1 amount of water encountered, and also the water
2 discharged, for amount and for quality. Currently,
3 it's about 200 gallons per minute which is encountered
4 or produced through our mine process. They discharge
5 about 160 gallons per minute. I don't think it's
6 necessary here to go into the objections of Mr.
7 Willson. We are a shareholder. He was the one who
8 helped us determine how many water shares were needed
9 for that operation, and our using shows we have three
10 times the actual shares necessary to cover the water
11 we're using. So I don't think that's an issue. And it
12 certainly is not an issue the Division needs to
13 decide.

14 But, you know, the evidence has been there, the
15 Protestants have had their chance to present evidence,
16 they haven't produced any at all regarding the tank
17 seam. Our evidence, that has been conclusive. There
18 will be very little if any water encountered. What is
19 encountered will be used in the mine process, won't be
20 discharged. There simply will be no impact whatsoever
21 on any hydrologic sources through the mining of the
22 tank seam.

23 The issues regarding the other seam, the Blind
24 Canyon seam, aren't relevant. We have tried to answer
25 that to alleviate any fears or suspicions anyone has,

1 and again I want to restate, it's not the policy, never
2 had been, never will be the policy of Co-op Mining
3 Company to not negotiate in good faith or try to work
4 something out if there is a problem.

5 We're water users, through our homes as well as in
6 the mine process. Whatever affects the water there is
7 our concern as well as the concern of the other
8 Protestants here. We question the good faith of the
9 Protestants in the manner they have approached this in
10 not first contacting us. We simply can't try and
11 contact each person we think may be a protestant. If
12 they have a concern they should contact us. They
13 haven't done that, other than through writing.

14 I might state for the record that years and years
15 ago we did have a number of discussions with Mr.
16 Leamaster and worked out an agreement, but the last few
17 years they haven't wanted to or aren't willing to. It
18 hasn't been our policy not to negotiate. But it has to
19 be done in good faith and has to be based upon some
20 kind of credible evidence. There is a problem that has
21 to be addressed and there isn't that here, your Honor,
22 today, or Mr. Carter, excuse me. Thank you.

23 MR. CARTER: Thank you. This is an informal
24 proceeding, and I, in terms of whether or not I'm able
25 to leave the record open to supplementation, I frankly

1 don't know. There's a -- we have initiated a comment
2 period, and apparently it's likely the comment period
3 has closed, only been held open for the purposes of
4 receiving what information comes in during this
5 hearing. But I don't want to make a call on that right
6 this second. I want to consult with my attorneys
7 first. But I understand your -- we need to move ahead
8 with our decision making, and cannot keep this issue
9 open indefinitely. I will have to go back to the
10 office and consult with them, but I'll come to the
11 conclusion on that quickly and offer whatever relief
12 either of the parties thinks they might need to pursue
13 based on what I decide.

14 I think that will conclude the informal hearing.
15 I think we have got some documents that have not yet
16 been marked, and I'm assuming we can incorporate those
17 as part of the record. Those are -- the one is on flow
18 record on Birch Spring, which I'm not sure is material
19 to this application, because we -- in the absence of
20 objection, we'll, I think, include it since it was
21 tendered.

22 And the other, then, is the spring flow versus
23 regional precipitation information Mr. Garr presented.
24 So we'll incorporate those as part of the record.

25 MR. APPEL: As well as our information?

1 MR. CARTER: Yes, sorry. I neglected to mention
2 one, two, three, four, five charts introduced by one of
3 the Protestants. All right. Thank you all.

4 (Whereupon the hearing was concluded.)
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1 STATE OF UTAH)

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3 COUNTY OF SALT LAKE)

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6 I, Linda J. Smurthwaite, Certified Shorthand
7 Reporter, Registered Professional Reporter, and notary
8 public within and for the county of Salt Lake, State of
9 Utah do hereby certify:

10 That the foregoing proceedings were taken before
11 me at the time and place set forth herein, and was
12 taken down by me in shorthand and thereafter
13 transcribed into typewriting under my direction and
14 supervision.

15 That the foregoing pages contain a true and
16 correct transcription of my said shorthand notes so
17 taken.

18 In Witness Whereof, I have subscribed my name this
19 14th day of September, 1993.

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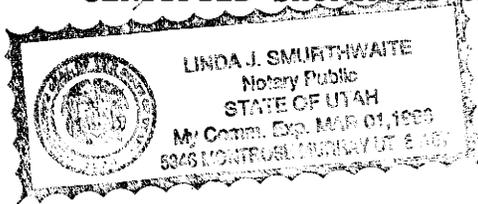
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Linda J. Smurthwaite
LINDA J. SMURTHWAITE
CERTIFIED SHORTHAND REPORTER



JEFFREY W. APPEL (3630)
MICHELE MATTSSON (5401)
APPEL & MATTSSON
175 South Main Street
Suite 1110
Salt Lake City, Utah 84111
Telephone: (801) 532-1252

Attorneys for Castle Valley
Special Service District

FILED

AUG 12 1993

SECRETARY, BOARD OF
OIL, GAS & MINING

IN AND BEFORE THE UTAH STATE DIVISION
OF OIL, GAS, AND MINING

In the Matter of the Tank Seam	:	
Application of Co-Op Mining	:	
Company, Bear Canyon Mine,	:	Objection of Castle Valley
Emery County, Utah,	:	Special Service District
ACT/015/025	:	to Co-Op's Application to
	:	Extend Mining into Tank
	:	Seam
	:	

Castle Valley Special Service District ("Castle Valley"), by and through its counsel, Appel & Mattsson, hereby submits this Objection to Co-Op's Application to Extend Mining into the Tank Seam, located above the existing seam within the existing permit area of the Bear Canyon Mine (ACT/015/025).

The grounds for the Objection are as follows:

1. Castle Valley is a local government entity that provides culinary water to Huntington, Cleveland and Elmo, Utah. Castle Valley provides water for 1,050 connections (which includes at least 2650 persons) from springs located in the proximity of Co-Op's mining operations, including Big Bear Canyon Springs.

2. A major portion of Huntington City's culinary water supply

is diverted from Big Bear Canyon Springs, which is in the area of Co-Op's mining operations.

3. Castle Valley is concerned that Co-Op has not taken adequate measures to protect Castle Valley's water sources either in its present mining areas or in its proposed mining area within the Tank Seam. Castle Valley is particularly concerned about the continuing integrity of its water sources given Co-Op's past problems in this regard. The following are illustrations of Castle Valley's concerns:

a. Co-Op's past mining operations have contaminated Big Bear Canyon Springs and the aquifers feeding the springs.

b. Co-Op's past mining operations have adversely and permanently impacted the level of flow of Big Bear Canyon Springs. The flows have significantly diminished as a result of Co-Op's mining operations and have not recovered and/or recharged even after the most recent "wet" water year.

c. Over the years, Co-Op has been cited by the DOGM for failing to adequately protect the hydrologic resources in the proximity of its mining operations.

4. Castle Valley is concerned that Co-Op's proposed expansion of its mining operations into the Tank Seam will have an adverse impact upon Big Bear Canyon Springs and the aquifers feeding the springs.

5. Castle Valley believes Co-Op's proposed expansion may harm

the vested water rights of Castle Valley and water users whose points of diversion are located below Co-Op's proposed operations. These water sources including Big Bear Canyon Springs, represent critical and irreplaceable sources of water for several adjacent towns and communities.

WHEREFORE, Castle Valley, requests that Co-Op's Application to expand into the Tank Seam be rejected and that it be entitled to participate in a hearing on the matter.

Castle Valley further requests that it be kept apprised of all current or proposed Co-Op mining operations that may impact the quality and/or quantity of its water sources.

DATED this 12th day of August, 1993.



Jeffrey W. Appel
Michele Mattsson
Attorneys for Castle Valley

AFFIDAVIT OF PUBLICATION

STATE OF UTAH)

ss.

County of Emery,)

RECEIVED
JAN 1993

AUG 30 1993

DIVISION OF
OIL, GAS & MINING

I, Kevin Ashby, on oath, say that I am the Publisher of the Emery County Progress, a weekly newspaper of general circulation, published at Castle Dale, State and County aforesaid, and that a certain notice, a true copy of which is hereto attached, was published in the full issue of such newspaper for One (1) consecutive issues, and that the first publication was on the

24th day of August, 1993

and that the last publication of such notice was in the issue of such newspaper dated the

.....day of....., 19.....

Kevin Ashby
.....

Subscribed and sworn to before me this

24th day of August, 1993

Linda Sharp
.....
Notary Public

My Commission expires January 10, 1995

Residing at Price, Utah

Publication fee, \$ 30.40

**NOTICE OF INFORMAL HEARING
CAUSE NO ACT/615/925-93B**

BEFORE THE DIVISION OF OIL, GAS AND MINING DEPARTMENT OF NATURAL RESOURCES STATE OF UTAH
IN THE MATTER OF THE TANK SEAM APPLICATION OF CO-OP MINING COMPANY, BEAR CANYON MINE, EMERY COUNTY, UTAH.

THE STATE OF UTAH TO ALL PERSONS INTERESTED IN THE ABOVE ENTITLED MATTER.

Notice is hereby given that the Division of Oil, Gas and Mining will conduct an informal hearing on Thursday, September 9, 1993, at 9:00 a.m., at the DNR Auditorium, DNR Building, First Floor, 1636 West North Temple, Salt Lake City, Utah, 84116-3193.

The informal hearing will be conducted in accordance with Utah Code Ann § 40-10-13 (1953, as amended) and Utah Admin. R. 645-300-122 and R. 645-300-123.

The permittee, Co-Op Mining Company, is currently operating the Bear Canyon Mine, an underground coal mine in Emery County, Utah. Permittee has applied to extend mining into the Tank seam, located above the existing seam within the existing permit area of the Bear Canyon Mine. Objections including, but not limited to, issues of water rights and impact of mining on the quality and quantity of the springs located in the proximity of Co-Op's mining operations, including Big Bear Canyon Springs and the aquifers feeding the springs, related to mining of the Tank seam, have been raised during the public comment period.

Persons interested in this matter may participate pursuant to Utah Admin. R. 645-300-123. The application, subsequent public comments, and request for informal hearing may be inspected in the office of the undersigned, 3 Triad Center, Suite 350, 355 West North Temple, Salt Lake City, Utah, (801) 538-5340.

DATED this 19th day of August, 1993.

STATE OF UTAH
DIVISION OF OIL, GAS AND MINING
-s-James W. Carter
Director

Published in the Emery County Progress August 24, 1993.

COPY

AFFIDAVIT OF PUBLICATION

ACT 015/025

RECEIVED

AUG 30 1993

DIVISION OF OIL, GAS & MINING

STATE OF UTAH)
ss.
County of Carbon,)

I, Kevin Ashby, on oath, say that I am the Publisher of the Sun Advocate, a twice-weekly newspaper of general circulation, published at Price, State and County aforesaid, and that a certain notice, a true copy of which is hereto attached, was published in the full issue of such newspaper for One (1) consecutive issues, and that the first publication was on the

24th day of August, 1993

and that the last publication of such notice was in the issue of such newspaper dated the

..... day of, 19.....

Kevin Ashby
.....

Subscribed and sworn to before me this
24th day of August, 1993.

Linda Thayne
.....
Notary Public

My Commission expires January 10, 1995
Residing at Price, Utah
Publication fee, \$ 30.40

**NOTICE OF INFORMAL HEARING
CAUSE NO ACT/015/025-93B**

BEFORE THE DIVISION OF OIL, GAS AND MINING DEPARTMENT OF NATURAL RESOURCES STATE OF UTAH
IN THE MATTER OF THE TANK SEAM APPLICATION OF CO-OP MINING COMPANY, BEAR CANYON MINE, EMERY COUNTY, UTAH.

THE STATE OF UTAH TO ALL PERSONS INTERESTED IN THE ABOVE ENTITLED MATTER.

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DATED this 19th day of August, 1993.

STATE OF UTAH
DIVISION OF OIL, GAS AND MINING
-s-James W. Carter
Director

Published in the Sun Advocate August 24, 1993.

NOTARY PUBLIC
LINDA THAYN
811 NORTH 10TH EAST
PRICE, UT 84501
My Commission Expires Jan. 10, 1995
State of Utah

COPY

143 SOUTH MAIN ST.
P.O. BOX 45838
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AFFIDAVIT OF PUBLICATION

AS NEWSPAPER AGENCY CORPORATION LEGAL BOOKKEEPER, I CERTIFY THAT THE ATTACHED ADVERTISEMENT OF NOTICE OF AGENCY ACTION CAUSE NO. ACT/015/025- FOR DIV OF OIL, GAS & MINING WAS PUBLISHED BY THE NEWSPAPER AGENCY CORPORATION, AGENT FOR THE SALT LAKE TRIBUNE AND DESERET NEWS, DAILY NEWSPAPERS PRINTED IN THE ENGLISH LANGUAGE WITH GENERAL CIRCULATION IN UTAH, AND PUBLISHED IN SALT LAKE CITY, SALT LAKE COUNTY IN THE STATE OF UTAH.

PUBLISHED ON AUG 24 1993

SIGNATURE _____

DATE 08/24/93

NOTICE OF AGENCY ACTION CAUSE NO. ACT/015/025-938 BEFORE THE DIVISION OF OIL, GAS & MINING, DEPARTMENT OF NATURAL RESOURCES, STATE OF UTAH

IN THE MATTER OF THE TANK SEAM APPLICATION OF CO-OP MINING COMPANY, BEAR CANYON MINE, EMERY COUNTY, UTAH.

THE STATE OF UTAH TO ALL PERSONS INTERESTED IN THE ABOVE ENTITLED MATTER.

Notice is hereby given that the Division of Oil, Gas and Mining will conduct an Informal hearing on Thursday, September 9, 1993, at 9:00 a.m., at the DNR Auditorium, DNR Building, First Floor, 1636 West North Temple, Salt Lake City, Utah, 84116-3193.

The Informal hearing will be conducted in accordance with Utah Code Ann. §§ 40-10-13 (1993, as amended) and Utah Admin. R. 645-300-122 and R. 645-300-123.

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DATED this 19th day of August 1993

STATE OF UTAH
DIVISION OF OIL, GAS AND MINING
/s/ James W. Carter,
Director
8K710250

ACCOUNT NAME		TELEPHONE
AS & MINING		801-538-5340
SCHEDULE		AD NUMBER
		8K710250
NO.	CAPTION	MISC. CHARGES
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BEFORE THE DIVISION OF OIL, GAS AND MINING
DEPARTMENT OF NATURAL RESOURCES
STATE OF UTAH

--oo0oo--

IN THE MATTER OF THE TANK
SEAM APPLICATION OF CO-OP
MINING COMPANY, BEAR CANYON
MINE, EMERY COUNTY, UTAH

NOTICE OF INFORMAL
HEARING

CAUSE NO. ACT/015/025-93B

--oo0oo--

THE STATE OF UTAH TO ALL PERSONS INTERESTED IN THE ABOVE
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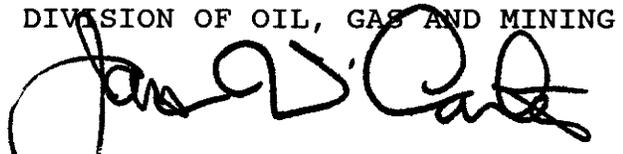
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DATED this 19th day of August, 1993.

STATE OF UTAH
DIVISION OF OIL, GAS AND MINING



James W. Carter
Director

CERTIFICATE OF MAILING

I hereby certify that I caused a true and correct copy of the foregoing Notice of Informal Hearing, Cause No. ACT/015/025-93B, to be mailed by Certified mail, postage prepaid, on the 20 day of August, 1993, to the following:

DARREL V LEAMASTER PE
DISTRICT MANAGER
CASTLE VALLEY SPECIAL SERVICE
DISTRICT
PO BOX 877
CASTLE DALE UT 84513

MENCO COPINGA PRESIDENT
NORTH EMERY WATER USERS
ASSOCIATION
BOX 418
ELMO UT 84521

SHERREL WARD
BOARD OF DIRECTORS
HUNTINGTON-CLEVELAND
IRRIGATION COMPANY
BOX 395
CLEVELAND UT 84518

VARDEN WILLSON SECRETARY
HUNTINGTON-CLEVELAND
IRRIGATION COMPANY
55 NORTH MAIN
HUNTINGTON UT 84528

BRYCE MONTGOMERY
3512 SOUTH 100 EAST
BOUNTIFUL UT 84010

JEFFREY W APPEL
MICHELE MATTSSON
APPEL & MATTSSON
SUITE 1110
175 SOUTH MAIN STREET
SALT LAKE CITY UT 84111

WENDELL OWEN
CO-OP MINING COMPANY
PO BOX 1245
HUNTINGTON UT 84528

JOSEPH O KINGSTON PRESIDENT
COP COAL DEVELOPMENT
COMPANY INC
53 WEST ANGELO AVENUE
SALT LAKE CITY UT 84115

ELDON KINGSTON
MOUNTAIN COIN MACHINE DIST
3753 SOUTH STATE STREET
SALT LAKE CITY UT 84115

KIMLY C MANGUM PE
MANGUM ENGINEERING
CONSULTANTS
388 EAST BOYNTON ROAD
KAYSVILLE UT 84037

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2115 EAST HUNTER'S GLEN
LAYTON UT 84041

MARK PAGE AREA ENGINEER
DIVISION OF WATER RIGHTS
PO BOX 718
PRICE UT 84501

ROBERT H HAGEN DIRECTOR
OFFICE OF SURFACE MINING
RECLAMATION & ENFORCEMENT
SUITE 1200
505 MARQUETTE N W
ALBUQUERQUE NM 87102

ROGER ZORTMAN DISTRICT MGR
BUREAU OF LAND MANAGEMENT
82 EAST DOGWOOD
PO BOX 970
MOAB UT 84532

GARY TORRES MINING ENGINEER
BUREAU OF LAND MANAGEMENT
82 EAST DOGWOOD
PO BOX 970
MOAB UT 84532

MARK BAILEY AREA MANAGER
BUREAU OF LAND MANAGEMENT
SAN RAFAEL RESOURCE AREA
900 NORTH 700 EAST
PRICE UT 84501

GEORGE MORRIS FOREST SUPERVSR
US FOREST SERVICE
MANTI-LASAL NATIONAL FOREST
599 WEST PRICE RIVER ROAD
PRICE UT 84501

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CONTROL
DEPT OF ENVIRONMENTAL QUALITY
BUILDING MAIL

BOB MORGAN DIRECTOR
DIVISION OF WATER RIGHTS
DEPT OF NATURAL RESOURCES
BUILDING MAIL

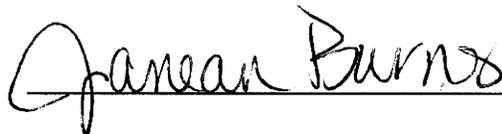
TIMOTHY H PROVAN DIRECTOR
DIVISION OF WILDLIFE RESOURCES
DEPT OF NATURAL RESOURCES
BUILDING MAIL

LARRY ANDERSON DIRECTOR
DIVISION OF WATER RESOURCES
DEPT OF NATURAL RESOURCES
BUILDING MAIL

Publication of Notice:

NEWSPAPER AGENCY CORP
SUN ADVOCATE
EMERY COUNTY PROGRESS

Posted at:
DOGM PRICE FIELD OFFICE
DOGM SALT LAKE CITY OFFICE



JAB
TAM
BBR
JAB
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main
File

HUNTINGTON-CLEVELAND IRRIGATION COMPANY

55 North Main
Huntington, Utah 84528
Telephone (801) 687-2505

July 14, 1993

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JUL 16 1993

**DIVISION OF
OIL, GAS & MINING**

Mr. James W. Carter, Director
Division of Oil, Gas and Mining
3 Triad Center, Suite 350
355 West North Temple
Salt Lake City, Utah 84180-1203

Dear Mr. Carter,

Huntington Cleveland Irrigation Company addresses this permit, ACT/015/025, Folder #3, Emery County, Utah, with concerns and want some answers, which without, this letter services as a protest to allow this permit to happen.

According to Mine Plan, how much water will be intercepted? How much water will be used in this mining operation? Where will the excess water intercepted go? What will the quality of the water be that is diverted, from the mine operation? Does Co-op Mine have enough water shares allocated to cover this mining operation?

If these questions are not answered to Huntington Cleveland Irrigation Companys satisfaction, this letter serves as an official protest to this application for permit, ACT/015/025, Folder #3, Emery County, Utah.

Sincerely,



Varden Willson, Secretary
Huntington Cleveland Irrigation Co.
Huntington, Utah

VW



State of Utah
DEPARTMENT OF NATURAL RESOURCES
DIVISION OF OIL, GAS AND MINING

Michael O. Leavitt
Governor
Ted Stewart
Executive Director
James W. Carter
Division Director

355 West North Temple
3 Triad Center, Suite 350
Salt Lake City, Utah 84180-1203
801-538-5340
801-359-3940 (Fax)
801-538-5319 (TDD)

August 18, 1993

Sun Advocate
Emery County Progress
P. O. Box 870
76 West Main
Price, Utah 84501

Gentlemen:

Re: Notice of Informal Conference (Public Hearing)

Attached is a Notice of Informal Conference from the Division of Oil, Gas and Mining, Department of Natural Resources, State of Utah.

It is requested that this notice be published ONCE ONLY as soon as possible, but no later than the 24th day of August, 1993, in both the Sun Advocate and Emery County Progress. In the event that said notice cannot be published by this date, please notify me immediately by calling 538-5340.

Upon completion of this request, please send proof of publication and statement of cost to the Division of Oil, Gas and Mining, 355 West North Temple, 3 Triad Center, Suite 350, Salt Lake City, Utah 84180-1203.

Sincerely,

A handwritten signature in cursive script that reads "Victoria A. Bailey".

Victoria A. Bailey
Executive Secretary

vb
Attachment



State of Utah
DEPARTMENT OF NATURAL RESOURCES
DIVISION OF OIL, GAS AND MINING

Michael O. Leavitt
Governor
Ted Stewart
Executive Director
James W. Carter
Division Director

355 West North Temple
3 Triad Center, Suite 350
Salt Lake City, Utah 84180-1203
801-538-5340
801-359-3940 (Fax)
801-538-5319 (TDD)

FAX COVER SHEET

Date: 8-19-93
FAX #: 1-637-2716
From: Vicki Bailey

Please deliver the following page(s) to:

Sun Advocate

Total number of pages, including this page 2

Comments: Hard Copy to follow

If you do not receive all pages or have any problems with receiving, please call
(801) 538-5340 and ask for Janean.

FAX





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FAX COVER SHEET

Date: 8-19-93
 FAX #: 1-637-2716
 From: Vicki Bailey

Please deliver the following page(s) to:

Emery County Progress

Total number of pages, including this page 2

Comments: Hard copy to follow

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FAX



JPB
TAM
BB
JAB
orig -
mine
file

HUNTINGTON-CLEVELAND IRRIGATION COMPANY

55 North Main
Huntington, Utah 84528
Telephone (801) 687-2505

July 14, 1993

RECEIVED

JUL 16 1993

DIVISION OF
OIL, GAS & MINING

Mr. James W. Carter, Director
Division of Oil, Gas and Mining
3 Triad Center, Suite 350
355 West North Temple
Salt Lake City, Utah 84180-1203

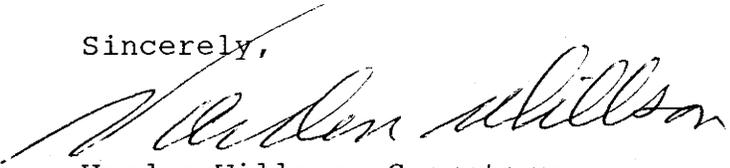
Dear Mr. Carter,

Huntington Cleveland Irrigation Company addresses this permit, ACT/015/025, Folder #3, Emery County, Utah, with concerns and want some answers, which without, this letter services as a protest to allow this permit to happen.

According to Mine Plan, how much water will be intercepted? How much water will be used in this mining operation? Where will the excess water intercepted go? What will the quality of the water be that is diverted, from the mine operation? Does Co-op Mine have enough water shares allocated to cover this mining operation?

If these questions are not answered to Huntington Cleveland Irrigation Companys satisfaction, this letter serves as an official protest to this application for permit, ACT/015/025, Folder #3, Emery County, Utah.

Sincerely,


Varden Willson, Secretary
Huntington Cleveland Irrigation Co.
Huntington, Utah

VW



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August 18, 1993

Newspaper Agency Corporation
Legal Advertising
143 South Main
P. O. Box 45838
Salt Lake City, Utah 84145

Gentlemen:

Re: Notice of Informal Conference (Public Hearing)

Attached is a Notice of Informal Conference from the Division of Oil, Gas and Mining, Department of Natural Resources, State of Utah.

It is requested that this notice be published ONCE ONLY as soon as possible, but no later than the 24th day of August, 1993. In the event that said notice cannot be published by this date, please notify me immediately by calling 538-5340.

Upon completion of this request, please send proof of publication and statement of cost to the Division of Oil, Gas and Mining, 355 West North Temple, 3 Triad Center, Suite 350, Salt Lake City, Utah 84180-1203.

Sincerely,

A handwritten signature in cursive script that reads "Victoria A. Bailey".

Victoria A. Bailey
Executive Secretary

vb
Attachment



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FAX COVER SHEET

Date: 8-19-93
 FAX #: 237-2520
 From: Vicki Bailey

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Legal Notices

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