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STATE OF COLORADO )  
                          : ss.     \*  
COUNTY OF MESA     )

The Deposition of CLIFFORD M. HIETT was taken on the 11th day of September, 1980, at 2 p.m., before Leila E. Mosher, a Notary Public and Certified Shorthand Reporter of the State of Colorado, in the Union Carbide Corporation Offices, Grand Junction, Colorado.

APPEARANCES: GREGORY K. HOSKIN, Esq., Nelson, Hoskin, Groves & Prinster, First National Bank Building, Grand Junction, Colorado, appearing for and on behalf of Union Carbide Corporation.

Deponent CLIFFORD M. HIETT, being first duly sworn upon his oath, testified as follows upon DIRECT EXAMINATION by Mr. Hoskin:

Q Would you please state your full name.

A Clifford M. Hiett.

Q And where do you reside?

A 52210 Banner Road, Delta, Colorado.

Q And how long have you resided there?

A Since June of 1976.

Q Okay. Where did you reside prior to that time?

A In Uravan.

Q That's Colorado?

A Yes. Uravan, Colorado.

1           A     When I first went to work there at Uravan was in  
2 April of 1940, and then I went into the Service in May of '42.  
3 I came back and worked at the Government plant from  
4 October -- late October of 1943 to November of 1945.

5           Q     All right. When you first went to work there in  
6 1940, who was operating that uranium plant at that time, or  
7 was it even a uranium plant?

8           A     It was a vanadium plant mostly. There was some  
9 experimental work being done on the processing of uranium,  
10 but it was primarily a vanadium plant.

11          Q     Then when you returned there in 1943, you indicated  
12 that you went to work in the Government mill. Could you tell  
13 us what the Government mill was?

14          A     It was a process for extracting uranium from some  
15 of the old tailings that had been put there through the  
16 vanadium mill.

17          Q     And which entity of the Government was operating  
18 or running that mill?

19          A     The Corp of Engineers.

20          Q     At the time you went there, were you in the Service?

21          A     Yes.

22          Q     You were an Enlisted Man, or --

23          A     I was an Enlisted Man, yes.

24          Q     And how long did you work for the Corp of Engineers  
25 in your capacity as an Enlisted Man in the Armed Services?

1 Q What is your occupation?

2 A I was a Shift Foreman in a uranium mill there.

3 Q What is your occupation at this time?

4 A I am retired.

5 Q And when did you retire?

6 A I retired May 30th, 1976.

7 Q Okay. And so as of May 30, 1976, you were

8 employed as a Shift Foreman with this uranium mill at Uravan,

9 Colorado?

10 A Yes.

11 Q And what is the name of the company that ran that

12 uranium mill?

13 A Union Carbide.

14 Q How long had you been employed by Union Carbide

15 Corporation?

16 A I retired after thirty-three years. There was a

17 break in that thirty-three years of between November of 19 -

18 no -- of June of '46 to July of '49.

19 Q Okay.

20 A At which time I didn't work for the Company at

21 that time.

22 Q All right. Let me have a couple of items marked

23 here as Exhibits by Mrs. Mosher.

24 When did you first become acquainted with any

25 kind of uranium operation which was taking place at Uravan,

Colorado?

1           A     From that period of October '43 through November  
2 of '45.

3           Q     Okay. And then in 1945, were you discharged from  
4 the Service?

5           A     I was discharged from the Service and went to work  
6 for the Company at Bishop, California.

7           Q     Okay. Now, when you say the Company, do you mean  
8 Union Carbide Corporation?

9           A     Yes.

10          Q     When did you return to the Uravan area after you  
11 made that move to Bishop, California?

12          A     I returned to Uravan, July of 1945.

13          Q     And how long did you stay at Uravan after that time?

14          A     From that date to the date of my retirement of  
15 May 30, 1976.

16          Q     You indicated you returned there in 1945?

17          A     1949.

18          Q     1949. All right. I apparently misheard on that.

19          A     No. I might have made a mistake now. I don't  
20 know, but it was '49.

21          Q     Do you know if the vanadium -- uranium operation  
22 was processing at Uravan, Colorado, during the time that you  
23 were in Bishop, which would have been, I guess, from about  
24 1945 until 1949?

25          A     There was no milling process there at all at  
that time. The mill was shut down.

1 Q Okay. When you returned in 1949, was it just  
2 starting up again?

3 A It was under construction to be started again, and  
4 it didn't start then until in January or February -- January  
5 I believe, of '50.

6 Q Okay. When you were working with the Corp of  
7 Engineers, for this period of 1943 to 1945, did you live in  
8 Uravan, Colorado?

9 A Yes.

10 Q And you were working fulltime during that period,  
11 at Uravan, Colorado?

12 A Yes.

13 Q And you became familiar with the whole operation  
14 as to where various parts of the plant were laid out and  
15 ponds and other appurtenant facilities of the milling  
16 operation?

17 A I was.

18 Q And when you returned in 1949, did you again live  
19 in Uravan?

20 A I did.

21 Q And did you reacquaint yourself with the locations  
22 of the plant and the ponds and storage areas, and other  
23 appurtenant facilities?

24 A I did.

25 Q And did you stay familiar with those all during

1 the time that you continued to work at Uravan?

2 A Yes. It was essential for my job.

3 Q Okay. Let me hand you what has been marked as  
4 Deposition Exhibit A, with today's date on it and initialled  
5 by our Court Reporter. There are a couple of things on here  
6 I want to see if you can identify them. One is marked  
7 Manhattan Project tailing pile. Are you familiar with that?

8 A Yes.

9 Q Okay. Can you tell us when that pile was deposited  
10 in that location? Approximately?

11 A Approximately in the year 1944 and 1945.

12 Q That would have been during the time that you  
13 were working in that area for the Corp of Engineers?

14 A It would have been.

15 Q Did you directly see material being deposited in  
16 that pile?

17 A I did.

18 Q Okay. Now, I have here what has been marked, over  
19 on the left side, sludge pond tailing pile. Are you  
20 familiar with that pile?

21 A I am.

22 Q Are you familiar with when it was deposited there?

23 A Yes.

24 Q And what approximately would be the date or dates  
25 it was deposited?

1           A     That would have been deposited in the years of  
2 1950, '51, '52, '53, '54 and '55.

3           A     And did you, yourself, observe material being  
4 deposited in that pile during that time?

5           A     I did.

6           Q     All right. Let me hand you what has been marked  
7 as Deposition Exhibit B, also bearing today's date and  
8 initialled by the Court Reporter. This is a little different  
9 plot or a little different plat, and it also shows the  
10 Manhattan Project tailings pile, and the sludge pond tailings  
11 pile. Are those the same two piles that you identified on  
12 Exhibit A?

13          A     It is.

14          Q     Okay.

15                               \*\* \*\* \*

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STATE OF COLORADO )  
COUNTY OF Dolla ) ss.

I, CLIFFORD M. HIETT, do hereby certify that I have read the foregoing transcript of Deposition and that the same is a true and complete statement of all questions, answers and objections propounded or stated during the taking of said Deposition.

Clifford M. Hiett  
Clifford M. Hiett

Subscribed and sworn to before me this 7 day of Oct, 1980.

My commission expires: My Commission expires Sept. 22 1982

Frank T. Co.  
Notary Public



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STATE OF COLORADO     )  
                                  :  ss.  
COUNTY OF MESA         )

I, Leila E. Mosher, a Notary Public and Certified Shorthand Reporter of the State of Colorado, hereby certify that the foregoing Deposition of CLIFFORD M. HIETT was taken before me at the time and place therein specified; that the said witness was by me first duly sworn on oath, and that the foregoing transcript is a true, correct and complete transcript of all questions propounded to said witness and of all answers thereto made by the witness, and of all proceedings attending the taking of said Deposition.

I further certify that I am a disinterested person and that I am in no way interested in the outcome of said cause.

DATED at Grand Junction, Colorado, this 23rd day of September, 1980.

*Leila E Mosher*

Leila E. Mosher, C.S.R.

My commission expires  
1-2-83

POOR ORIGINAL



Deton GFA  
9/11/80  
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SCALE OF FEET

EXISTING TAILING DISPOSAL AREAS  
& CLUB MESA SPRAY 5

FIGURE 1

DAMES & MOORE

Habakkuk Project  
Tailing Pile

Shapiro Pond  
Tailing Pile

WERRAVAN

HPUE'S CO-000313  
ONE DISCHARGE

RADIOACTIVE  
DISPOSAL  
AREA

ACTIVE  
TAILINGS  
PILES

OLD  
TAILINGS  
PILES

Figure 2

POOR ORIGINAL

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1/1/80



EXISTING A  
PROPOSED A

SCALE

