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This document consists of 2 page  
No. 1 of 1 Copies, Series B  
January 16, 1956

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MEMORANDUM For Dr. Libby

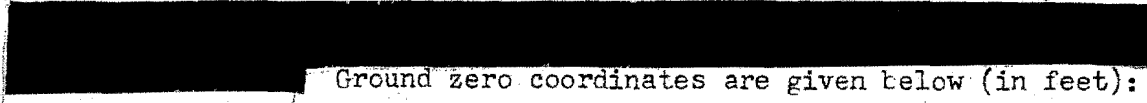
Subject: DEPTHS OF WATER UNDER EARGE SHOTS FOR REDWING

The following are the depths of water at the ground zeros of those megaton shots planned for firing from barges at REDWING:



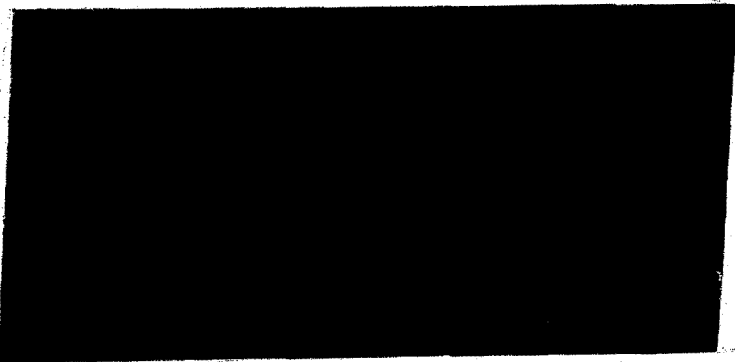
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6/16/95

A few words about how these depths were obtained might interest you.



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6/16/95

Ground zero coordinates are given below (in feet):



DOE  
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REPOSITORY NARA College Park  
RG 596 - Office of Secretary  
COLLECTION 1951-1958 Correspondence  
BOX No. 209 (NN3-326-43-010)  
FOLDER MRZA7 Redwing Vol 1



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DEPARTMENT OF ENERGY DECLASSIFICATION REVIEW  
SINGLE COPY EVALUATION SHEET  
DOE ORDER 5650.20  
REVIEWER NAME: WChapal  
DATE: 05/24/95  
CLASSIFICATION: SECRET  
PAGE: 2 OF 2 PAGES  
DOCUMENT

DEPARTMENT OF ENERGY DECLASSIFICATION REVIEW  
1ST REVIEW DATE: 03/04/82  
AUTHORITY: DAAC BRUCE BRADD  
NAME: W. J. ...  
2ND REVIEW DATE: 10/4/83  
AUTHORITY: ADD ...  
NAME: ...  
DETERMINATION (CIRCLE NUMBER)  
1. CLASSIFICATION RETAINED  
2. CLASSIFICATION EXCHANGED TO  
3. CONTAINS NO DECLASSIFIED INFO  
4. COORDINATE WITH:  
5. CLASSIFICATION CANCELLED  
6. CLASSIFIED INFO BRACKETED  
7. OTHER (SPECIFY): PP 266-257

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Dr. Libby

- 2 -



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"Prior to the shot the lagoon floor at the shot point was at a depth of 162 ft. The bottom in the vicinity was quite irregular, with a general slope toward the center of the lagoon and with a large number of coral heads. The post-shot survey indicated that the effect of the shot was to pulverize or depress the bottom directly under the shot point and to destroy the coral heads in the vicinity. Mud or fine (almost suspended) sand was deposited as indicated in the profiles at a uniform depth of about 180 ft. Lead line soundings by H&N during the placement of the barge for a later shot gave a depth of 250 ft."

If more accurate depths are required, we can get them from the Scientific Task Group, but it will take a few days.

/s/

Alfred D. Starbird  
Brigadier General, USA  
Director of Military Application

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By DM/LA Date 7/12/05

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