

USS NICHOLAS (DDE-449)  
Fleet Post Office  
San Francisco, California

DDE-449/rw  
P-22  
Ser: 049  
20 Mar 54

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410547

From: Commanding Officer  
To: Commander Task Group 7.3

Subj: Redsafe Survey 8-11 March 1954

1. The Task Group 7.1 survey party and Mr. Marion Wilds, trust Territory representative, arrived Rongelap at 0745M, 8 March and boarded NICHOLAS shortly thereafter. Working parties, as indicated in Commander Joint Task Force SEVEN dispatch 060400Z, were made available to Dr. Scoville's party. Dr. Scoville informed the Commanding Officer that all reports of gamma intensities and other scientific data would be reported only to Commander Joint Task Force SEVEN. He specifically requested that no other commands be made information addressee. Daily dispatches indicating results of RedSafe survey on each atoll, originated by Dr. Scoville, were addressed accordingly. On debarking at Eniwetok at 0830, 12 March Dr. Scoville's party transported all earth and water samples to Parry Island.

2. The following islands, in atolls, were visited. Mr. Wilds accompanied working parties ashore on all ex-inhabitated islands where native property was secured as directed by him.

a. Rongelap Atoll; 8 and 11 March 1954:

(1) Rongelap Island:

(a) Native houses were closed up and property left in the open, that could be ruined by weather, was moved inside.

(b) One dog and three cats were killed as possible menace to livestock.

(c) One thirty foot sailing schooner was beached above high water mark and filled with sea water. Masts were unshipped and placed in a shed along with sails.

(d) Two sacks of rice and five sacks of flour were opened and placed outside as feed for pigs and chickens.

(e) Buckets, pans and large clam shells were placed under eaves of houses to provide drinking water for livestock.

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Access No. 151-60A 267 2 of 13

Folder All Castles & Mans

Rad Survey Reports  
0010319

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REVIEWED BY \_\_\_\_\_ DATE \_\_\_\_\_

\* Ltr. DNA Verallo To  
DOE/OC dated 6/16/87

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(f) All livestock appeared to be in good condition. It is believed that sufficient water will be available although a shortage of food is expected to develop in the near future.

(g) Water and soil samples were taken as directed by Task Group 7.1 personnel and intensity levels were taken.

(2) The islands listed in sub-paragraph (3) through (15) are all uninhabited except for parties of natives that go from Rongelap to make copra, collect sea birds and fish. There was no native property found. Intensity levels were taken by Task Group 7.1 personnel.

- (3) Eniren Island.
- (4) Arbar Island.
- (5) Busch Island.
- (6) Enialo Island.
- (7) Eniketok Island.
- (8) Anidjet Island.
- (9) Kabelle Island.
- (10) Eriirippu Island.
- (11) Lukuen Island.
- (12) Gejen Island.
- (13) Lomumilal Island.
- (14) Merik Island.
- (15) Keen Island.

b. Utirik Atoll; 9 March 1954

(1) Utirik Island:

(a) Three canoes were beached above high water mark.

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(b) Houses were closed up against weather and property left in the weather, that could be spoiled, was moved inside.

(c) Water catchments were provided for livestock by placing old pans, buckets and large clam shells under eaves of houses.

(d) Six dogs were killed to protect livestock.

(e) All livestock appeared to be in good condition.

(f) Water and soil samples were obtained and intensity levels taken.

(2) Aon Island:

(a) Uninhabited - intensity levels taken.

c. Bikar Atoll; 9 March 1954

(1) Bikar Island:

(a) Uninhabited - intensity levels taken.

d. Rongerik Atoll; 10 March 1954

(1) Eniwetok Island:

(a) Air Force personnel were landed along with a ship's working party. Spoiled meat and other consumables were dumped in the sea. Equipment was tested and secured against the weather as directed by Air Force personnel.

(b) Water and soil samples were obtained and intensity levels taken.

(2) The islands listed in sub-paragraph (3) through (6) are uninhabited. Intensity levels, only, were taken.

(3) Rongerik Island.

(4) Mortlock Island.

(5) Latoback Island.

(6) Bock Island.

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e. Mlinginae Atoll; 10 March 1954

(1) Sifo Island:

(a) Native property, left by people who were visiting from Rongelap Island, was protected against the weather. All clothing, tools, etc. were placed inside a canvas shelter on top of dried palm fronds, and covered with additional canvas.

(b) A thirty foot sailing schooner was moved to a safe anchorage in the lee of Eniustokku Island. The boat was anchored in a sandy spot in the event that it should sink. Beaching was impracticable due to the limited time available.

(2) Enibuk Island:

(a) Native property secured, intensity levels taken.

(3) Bokonikairu Island:

(a) Uninhabited - intensity levels taken.

3. Navigation and general information:

a. Rongelap Atoll:

(1) Entrance can be made quite readily through South Pass and North east Pass. West Pass shows quite plainly, however, no passage was attempted because soundings are not adequate. Navigational fixes, using tangents were good. The Small Boat Passage in the Northwest part of the atoll is difficult to see and appears to be very dangerous when heavy swells are running.

(2) Landings can be readily made on all islands by motor whaleboat. On most of the islands the beach gradient was quite steep, permitting easy beaching of boats. A sharp lookout should be maintained at all times for coral heads and dark, yellow, or dark green, water should be avoided.

b. Bikar Atoll:

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(1) Bikar Island Passage is very difficult to find and passage through the lagoon is difficult even for a small boat. A landing was made with very little difficulty in the lee of Bikar Island at low tide. It was found advisable to put the bow of the boat against the reef, which rises steeply at low tide, and let the party wade ashore. The water is only knee deep at this period of the tide. Backwash from the reef should be carefully watched.

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(2) The island and surrounding water teems with fish, turtles and sea birds.

c. Rongelap Atoll:

(1) The ship did not attempt passage into the atoll because of the poor navigational aids available. It is believed that a shallow draft vessel should experience very little difficulty in making passage.

(2) Small Boating is rough, but not dangerous. Extreme care should be exercised when approaching Bock Island as many coral heads are present and the water is very shallow.

d. Ailinginae Atoll:

(1) Only small boat entry was made. A shallow draft vessel should have very little difficulty making entry. Navigational cuts were very poor.

(2) Small boating was rough but not dangerous.

e. Utirik Atoll:

(1) The four beacons shown on HO chart 6023 have been replaced by two black buoys. It is understood that the Trust Territory AKL makes regular entry into Utirik Atoll through Utirik Passage. The beacons on and around Utirik Island are missing.

(2) Small boating is not difficult, but a sharp watch should be maintained for coral heads.

4. Recommendations and Summary:

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a. Survey of these atolls from a DDE type vessel is somewhat inefficient in that Rongelap is the only atoll, of the five visited, that can be entered and navigated safely, thus limiting the number of islands that can be covered in a given time. Boat handling operations outside the atolls were difficult due to heavy swells. With the forces available, it is believed that the use of a DDE is the most practicable solution for similar missions. For operations subsequent to "CASTLE", it is recommended that a smaller class ship of shallow draft be used. This would permit entry into most lagoons shortening boat runs, in some cases twenty miles.

b. Makē boat entry into windward part of lagoon wherever possible. This permits boats to run down wind, speeding the operation and helping to keep instruments dry.

c. Maintain radio communication with boats. In this respect, this command used SCR 536 which were the only battery type radios available. Communications were fair. It is recommended that an SCR 608 or similar small battery radio with at least a thirty mile range be used if possible.

d. It was found advisable to provide the boats with overlays of the atolls showing magnetic compass courses between islands and passes.

e. Provide boats with food, water, binoculars and rifles. The last for protection against sharks in case a man falls over board.

f. Use stern anchor when beaching to prevent broaching. Do not let boat remain on beach, but haul out and await return of party.

g. Beach in the lee of island whenever possible.

h. It was found impossible to cover all of the islands in each atoll in the time allotted. Rough weather and long boat runs between islands in atolls slowed up operations. Task Group 7.1 scientific personnel designated the islands they desired to survey and landings were made on all so designated.

i. Working parties were kept firmly in hand. Each working party was required to remain in sight of a commissioned officer and Mr. Wilds. As far as could be determined, no native property was molested or pilfered.

j. It is estimated that the maximum accumulative dosage received by any one person in the parties was 2.5R. Film badges, worn by all personnel ashore or in the boats, have been forwarded to the U.S.S. BAIROKO for developing.

/s/J. C. ELIOT

J. C. ELIOT

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Copy to:  
CO: CORDES DIV 12

U. S. S. NICHOLAS (DDE-449)  
c/o Fleet Post Office  
San Francisco, California

DD3449/mw  
P22  
Ser: 054  
28 March 1954

RG 181 AGENCY/NRDL

Location SAN BRN

Accession 181-60A 267 29

File # 411/ Castle - Iva

From: Commanding Officer  
To: Commander Task Group 7.3

Subj: Rongelap Survey Trip 25 - 26 March 1954; report of Rad Survey Reports  
00103

1. The USS NICHOLAS (DDE-449) departed BIKINI Atoll at 1900M, 25 March 1954 for RONGELAP Atoll in accordance with Commander Joint Task Force SEVEN 231131Z and Commander Task Group 7.3 232323Z of March 1954. The following personnel from Task Group 7.1 were on board:

- Dr. Lauren R. Donaldson
- Dr. Thomas L. Shipman
- Dr. Edward E. Held
- Dr. Ralph F. Palumbo
- Dr. Paul R. Olson
- Dr. Thomas N. White
- Mr. William W. Robbins
- Mr. Pasquale R. Schiavone
- Major Charles M. Barnes, USAF

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*J. Ding* 5/23/88  
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\* Ltr. DNA Uballo TO  
DDE,oc dated 6/16/87

2. The ship arrived off the South Entrance, RONGELAP Atoll at 260100M and put a whale boat in the water at 260630M to meet the plane arriving from Kwajalein with Dr. Bond's party.

3. The ship then proceeded to Northeast Pass, RONGELAP Atoll, entered and anchored. Dr. Donaldson and his party departed the ship at 0830M.

4. The plane from Kwajalein arrived off RONGELAP at 0905M, was met by the whaleboat. Dr. Bond, Mr. Marion Wilds, three Public Health Service Officers, three Natives and miscellaneous equipment was transported to the beach. The plane was guided to an anchorage about two hundred (200) yards off shore from the village where it was anchored.

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a. Personnel from the NICHOLAS assisted Dr. Bond to accomplish the following: Capture five young pigs and one sow; capture five chickens; obtain soil, fruit and vegetation samples. One boar was killed and an autopsy was performed on the spot. The animals and other samples were placed in cages and transported to the plane. Dr. Bond's party departed RONGELAP at 1300M, 26 March 1954. The whaleboat then departed RONGELAP Island and proceeded north to rejoin the ship, stopping at BUSCH and ENIAETOK Island to measure radioactive intensity. One member of RadSurvey Team accompanied this boat to conduct RadSurvey on Southeastern Islands. Dr. Donaldson's party worked in the Northeast part of RONGELAP Atoll, collecting fish, soil, birds, invertebrates, algae and vegetation samples. One member of RadSurvey Team accompanied this party to conduct RadSurvey of Northern Islands. It was not possible to collect rats, as desired, due to the unexpected departure of the ship as directed by Commander Task Group 7.3 260217Z of March 1954.

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28 Mar 1954

5. Dr. Bond expressed the opinion that his mission had been accomplished to his satisfaction. Dr. Donaldson stated that his mission has been accomplished satisfactorily. Mr. Marion Wilds, Trust Territory Representative requested that the boat at MILINGANIE be beached whenever practicable. All boats at RONGELAP have been beached by NICHOLS.
6. Prior to the ships departure, three HT-176/PRC10 radios were obtained by Mr. P. Schiavone from Task Unit 7.1. These radios were very satisfactory and far superior to the BC-611-F used on the last trip. It is recommended that this type radio be used by ships on future trips if they are required to operate small boats a long distance from the ship. Reception was excellent at twenty (20) miles.
7. The ships departure from RONGELAP Atoll was delayed until 262130M because the motor whaleboat experienced a fuel pump failure on returning from KABELLE Island, where they were collecting rat traps.
8. The ship rejoined Task Group 7.3 off BIKINI Atoll at 270130M.

J. C. ELIOT

Copy to:  
COMJOINTASKFORCE SEVEN  
COMCORTDES DIV TWELVE

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RG  
30 March 1954

Location SAN BRUNO ITC

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Rad. Survey Reports  
00103

MEMORANDUM FOR: CJTF SEVEN

SUBJECT: DDE Trip to Rongelap Atoll, 26 March 1954

1. Reference JTF SEVEN DTG 230220Z March 1954. Purpose of subject trip, conducted by USS NICHOLAS (DDE 449) was to:

- a. Beach small boats belonging to Rongelap Marshallese.
- b. Conduct radsafe re-survey of Rongelap.
- c. Collect approximately 500 pounds contaminated top soil requested by AEC Division of Biology and Medicine.
- d. Collect samples of Marine life and vegetation.
- e. Collect domestic animals remaining at Rongelap village.

2. The undersigned acted as JTF SEVEN and TG 7.1 representative and was responsible for execution of lb and lc. Since the NICHOLAS will make an overall report, and detailed reports on ld and le will be made by the project officers concerned, the details in this report are confined to lb and lc.

3. It is noted that the scope of activities lb and ld was more limited than had originally been planned. As will be clear from the report of the NICHOLAS, this was because 26 March became R-1 after the work started. Thanks mainly to the excellent planning and management of Capt. Joseph Eliot and Executive Officer Clifford Frink, much more was accomplished than might reasonably have been expected under these circumstances. lc and le were accomplished essentially as planned, but la had to be omitted.

4. The radsafe re-survey was conducted by Mr. P.R. Schiavone of TG 7.1, TU-7, using two recently calibrated AN/PDR-39 instruments. Readings on Rongelap Island were taken during the morning and on the other islands during the afternoon of 26 March.

<u>Island</u>	<u>mr/hr</u>	SAN BRUNO ITC
Rongelap	40 at 0830 at standard position established by Scoville Survey	
Boseh	50 South end	
Eniastok	90	
Labardj	200	
Kabelle	500	

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\*Ltr. DNA UARV 116 TO  
DOE, OC dated 6/16/87  
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On Rongelap Island, the readings in the huts appeared to be 10%-15% less than outside. Inside the huts the readings at ground level were about 70% of those at head level. Readings over gravel areas and near the cisterns were about 30 mr/hr; inside the cisterns, about 10-15 mr/hr.

5. The top soil sample was obtained from LABARDJ Island a small island well covered with bushes and grass, but without palm trees. It had been planned to get the sample from KIBELLE, but this could not be done without interfering with the fish and vegetation collection.

6. Special mention should be made of the work of Mr. P.R. Schiavone, who did an excellent job of getting supplies and equipment not available on the NICHOLAS, as well as conducting the rad-safe survey.

s/ T. White  
t/ T. WHITE  
H Division, LASL

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MEMORANDUM FOR RECORD:

SUBJECT: Miscellaneous Radsafe Surveys of Rongerik (surveys conducted by CTG 7.4)

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RONGERIK

Location SAN BRUNO IRL

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17 March, 1200 MIKE

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Living Area Readings:

Mess hall interior	40 - 100 mr/hr	Waist level
Hospital interior	50 - 75 mr/hr	Waist level
walk from hospital to mess	100 - 110 mr/hr	Waist level
Store room (behind mess)	50 - 55 mr/hr	Waist level
Exterior store room tent	100 - 150 mr/hr	Waist level
General Area exterior	100 - 150 mr/hr	Waist level

Weather Station Site Readings:

Exterior areas local	125 - 150 - 160 mr/hr	Waist level
Interior all tents	50 - 75 mr/hr	Waist level
Interior building	50 - 60 mr/hr	Waist level

Army Site Readings:

General area	140 - 190 mr/hr	Waist level
Interior tents	70 - 80 mr/hr	Waist level
Adjacent to trailer	160 - 180 mr/hr	Waist level

19 March, 1100 - 1220 MIKE

Landing on beach	42 mr/hr	Waist level
Living area	60 mr/hr	Waist level
Inside mess hall	22 mr/hr	Waist level
Inside dispensary	26 mr/hr	Waist level
Inside barracks	23 mr/hr	Waist level
ESE end of island (Rawinsonde)	47 mr/hr	Waist level
Along road to Rawinsonde area	40 - 42 - 40 mr/hr	Waist level
Inside weather building	23 mr/hr	Waist level
Work area outside building	60 mr/hr	Waist level
Army area (around trailer)	40 mr/hr	Waist level
Inside foilage area	40 mr/hr	Waist level
Inside tent	19 mr/hr	Waist level

19 March, 1400 MIKE

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Inside weather building	21 mr/hr	Waist level
Living area Still	60 mr/hr	Waist level
Inside barracks	23 mr/hr	Waist level
Inside dispensary	25 mr/hr	Waist level

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\* Ltr. DNA Ver 6/10 70

DOE, OC dated 6/16/87

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RONGELIK COAST

26 March, 1500 MIKE

<u>Army Site</u>	Out	42 mr/hr	Waist Level
	In	20 mr/hr	Waist Level
<u>Weather Site</u>	Out	40 mr/hr	Waist Level
	In	18 mr/hr	Waist Level
<u>Living Site</u>	Out	35 mr/hr	Waist Level
	In	15 mr/hr	Waist Level

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ARMY AREA (Location of samples taken)

OCEAN

Trailer



Tent



-Marked by pile of rocks



Horseshoe Pits



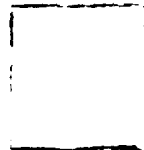
LIVING AREA (Location of samples taken)

Mess

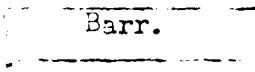


Marked by  
wooden crate

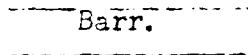
-Dispensary



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WEATHER SITE (Location of samples taken)

Shelter



Tent

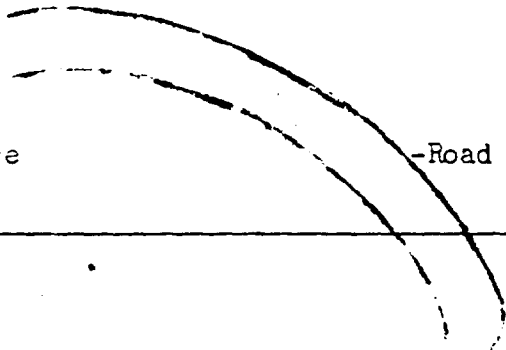


-Building



Instrument Case

-Road



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(s/t R. A. House  
R. A. HOUSE  
Lt Col., USAF  
Ch. Tech Br, J-3  
JTF SEVEN

SAN BRUNO FIC

~~TOP SECRET~~

MEMORANDUM FOR RECORD:

SUBJECT: Kwajalein-NYOO Flight ABLE Results

1. NYOO-Kwajalein Flight Able, consists of an aerial survey at approximately 200 feet altitude over the following atolls north of Kwajalein: Lae, Ujae, Wotho, Bikini, Ailinginae, Rongelap, Rongerik, Taongi, Bikar, Utirik, Taka, Ailuk, Jemo and Likiep. The aircraft are equipped with scintimeters which are sensitive gamma radiation measuring instruments with a wide range, designed to measure ground contamination from altitudes of 200 to 500 feet.

2. Following ~~ROMEO~~ snot at 261825Z March 1954, Flight Able was flown on the following dates with results indicated: (In mr/hr ground contamination)

Island (Atoll)	271900Z to 280317Z	302030Z to 310208Z
Lae (Lae)	0	0
Ujae (Ujae)	0	0.2
Wotho (Wotho)	0	1.7
Enibuk (Ailinginae)	6	26
Rongelap (Rongelap)	28	78
Rongerik (Rongerik)	36	58
Sybilla (Taongi)	1.0	0.4
Bikar (Bikar)	0.1	15
Utirik (Utirik)	--	7
Taka (Taka)	8	7
Kapen (Ailuk)	1.6	2.4
Jemo (Jemo)	0.8	2.4
Likiep (Likiep)	0.4	1.0

RG 181 AGENCY/NRDL

(s/t) R. A. HOUSE  
Lt Col., USAF  
ChTechOps Br, J-3  
JTF SEVEN

Location SAN BRUNO FRC

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Rad Survey Reports  
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\*Ltr. DNA Varolio To  
DOE, DC dated 6/16/87

INCLOSURE 7

~~TOP SECRET~~

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DRINKING WATER SAMPLES (Analysis Report)

<u>SAMPLE NO.</u>	<u>COLLECTION DATE</u>	<u>TIME</u>	<u>LOCATION</u>	<u>DESCRIPTION</u>	<u>d/m/ml (ON SAMPLE DATE)</u>
W1	6 March	0800	Likiep Island Likiep Atoll	Collected from largest cistern on heaviest populated island of atoll	77
W2	6 March	1200	Jemo Island	Same as W1	550
W3	6 March	1700	Ailuk Island Ailuk Atoll	Same as W1	1020
W4	7 March	1300	Mejit Island	Same as W1	2500
W5-8	4 March	0900	Utirik Atoll	Composite of 4 water samples taken by USS RENSHAW	430
W11	5 March	1600	Ormed Island Wotje Atoll	Composite: 1/2 from catch-basin	109
W12	6 March	1130	Kaven Island Maloelap Atoll	1 from well	67
W13	6 March	1130	Kaven Island Maloelap Atoll	1 from catch-basin	31
W9	6 March	1630	Wotho Island Wotho Atoll	1 from well (catch-basin dry for 1 month plus)	7
W10	7 March	1200	Dalap Island Majuro Atoll	Tap Water	14
W11	3 March	0930	Rongelap Island	Composite of 6 bottles. Chart included to show location of bottles on Rongelap Island	94,000 120,000 47,000 No. 1 No. 6 24,000 11,000 63,000
W12	8 March		Rongelap Island	Central cistern of village	50,000*
W13	8 March		Rongelap Island	Cistern water from north part of island	73,000*
W14	8 March		Rongelap Island	Cistern water from northern most village	8,000*

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 Location SAN BIRUADU FMK  
 Agency No. 181-604 267 207  
 File # A11/Caater Liano  
 Rad: Survey Reports 0010319

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 \* 3/23/88  
 \* htr. DNA 1680/1070  
 \* DOE, OC dated 6/16/87

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INCLOSURE #8

31  
 Encl (5) total  
 (2)

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DRINKING WATER SAMPLES (Analysis Report) Cont'd

<u>SAMPLE NO.</u>	<u>COLLECTION DATE</u>	<u>TIME</u>	<u>LOCATION</u>	<u>DESCRIPTION</u>	<u>d/m/ml (ON SAMPLE DATE)</u>
W15	8 March		Rongelap Island	South cistern in village	60,000*
W16	9 March		Utirik Island	Cistern	7,200*
W17	9 March		Utirik Island	Cistern	33,000*
W18	10 March		Eniwetak Island Rongerik Atoll	Distillation water	66*

\* computed as of 3 March

BY BRUNO ARC

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SOIL SAMPLES (ANALYSIS REPORT)

SAMPLE NO.	COLLECTION		LOCATION	DESCRIPTION	d/m/gm (ON SAMPLE DATE)
	DATE	TIME			
S1	6 March	0800	Lakiep Island Likiep Atoll	Upper layer bare soil in random spots un- sheltered by trees or shrubs etc.	23,000
S2	6 March	1200	Jemo Island	Same as above	13,000
S3	6 March	1700	Ailuk Island Ailuk Atoll	Same as above	23,000
S4	7 March	1300	Mejit Island	Same as above	30,000
S5	5 March	1600	Ormed Island Totje Atoll	Composite of 5 samples (1 beach, 3 mid-village, 1 back village)	15,000
S6	5 March	1730	Erikub Island Erikub Atoll	Composite of 2 samples (1 mid-village, 1 half- way to beach)	4,300
S7	6 March	1130	Kaven Island Muloelap Atoll	Composite of 4 samples (2 from village, 2 from paths to beach)	5,500
S8	6 March	1630	Wotho Island Wotho Atoll	Composite of 3 samples (1 by well, 2 mid-village)	2,400
S9	7 March	1200	Dalap Island Majuro Atoll	Composite of 4 samples (near Admin Bldg)	950
S10	7 March (Collection date of S10 is uncertain, probably 3 March 1954 by PEM Survey Party. Analysis value given is corrected to 7 March.)	1200	Utirik Island	Composite of 3 samples	270,000
S11	8 March		Rongelap Island	Soil from north part of island	1,300,000**
S12	8 March		Rongelap Island	Center portion of island	7,400,000**
S13	8 March		Rongelap Island	1 mile north of Rongelap village	460,000**

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INCLOSURE #9  
181 AGENCY/NRDL

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RG  
Location SAN BRUNO FRC  
Accession 181-60A 267 13  
Folder AN/Castle, Guam. Rad.  
Survey Reports 0010319

CLASSIFICATION CANCELLED  
BY AUTHORITY OF DOE/OC  
J. Duag 5/23/88  
REVIEWED BY \_\_\_\_\_ DATE \_\_\_\_\_  
\* Ltr. DNA V21110 TO  
DOE, OC dated 6/16/87

0010319  
Encl(9) to  
encl(2)

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SOIL SAMPLES (ANALYSIS REPORT) CONT'D

<u>SAMPLE NO.</u>	<u>COLLECTION DATE</u>	<u>TIME</u>	<u>LOCATION</u>	<u>DESCRIPTION</u>	<u>c/m/gm (ON SAMPLE DATE)</u>
S14	8 March		Rongelap Island	Near south cistern of village	630,000**
S15	8 March		Eriirippu Island Rongelap Atoll		35,000,000**
S16	8 March		Eniwetak Island Rongerik Atoll		3,200,000**
S17	8 March		Kabelle Island Rongelap Atoll		20,000,000**
S18	9 March		Utirik Island		5,600,000**
S19	9 March		Bikar Island		280,000**
S20	10 March		Eniwetak Island Rongerik Atoll		1,200,000**
S21	10 March		Sifo Island Ailinginae Atoll	Temporary village	84,000**
*S22	9 March		Bikar Island	Foliage, windward side	460,000**

\* d/m/gm of plant ash (equiv. to  $1.4 \times 10^4$  d/m/gm plant as received)

\*\* Computed as of 3 March

Soil values may be roughly translated to curies per square mile by dividing by 13, or to d/m/ft<sup>2</sup> by multiplying by 6000.

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**PRIVACY ACT MATERIAL REMOVED**

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A LIST OF MARSHALLESE EVACUATED VIA PBM FROM RONGELAP ISLAND  
ON 3 MARCH 1954

NAME	SEX	AGE
1.	Male	66
2.	Male	75
3.	Female	83
4.	Male	70
5.	Female	63
6.	Male	28
7.	Female	62
8.	Female	52
9.	Female	6
10.	Female	17
11.	Female	19
12.	Female	24
13.	Female	78
14.	Male	30
15.	Male	48
16.	Female	59

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**PRIVACY ACT MATERIAL REMOVED**

A LIST OF MARSHALLESE EMBARKED ABOARD THE USS PHILIP (DDE 438)  
FROM RONGELAP ISLAND ON 3 MARCH 1954

NAME	SEX	AGE
1.	Male	49
2.	Male	43
3.	Male	37
4.	Male	36
5.	Male	44
6.	Male	31
7.	Male	30
8.	Male	20
9.	Male	15
10.	Male	12
11.	Male	7
12.	Male	7
13.	Male	6
14.	Male	5
15.	Male	4
16.	Male	13
17.	Male	2
18.	Male	2
19.	Male	2
20.	Male	1
21.	Male	2
22.	Male	4
23.	Female	59
24.	Female	53
25.	Female	50
26.	Female	38
27.	Female	37
28.	Female	31
29.	Female	30
30.	Female	28
31.	Female	26
32.	Female	12
33.	Male	60
34.	Female	4 SAN BRUNO FRC
35.	Female	2
36.	Female	7
37.	Female	18
38.	Female	15
39.	Female	15
40.	Female	13
41.	Female	9
42.	Female	3
43.	Female	4
44.	Female	3
45.	Female	2
46.	Female	15
47.	Male	20
48.	Male	33

**PRIVACY ACT MATERIAL REMOVED**

A LIST OF MARSHALLESE EMBARKED ABOARD THE USS PHILIP (DDE 498)  
FROM SIFO ISLAND ON 3 MARCH 1954

NAME	SEX	AGE
1.	Male	35
2.	Male	2
3.	Male	42
4.	Male	4
5.	Male	57
6.	Female	55
7.	Female	13
8.	Female	10
9.	Female	1
10.	Female	19
11.	Female	2
12.	Female	12
13.	Female	16
14.	Female	2
15.	Female	16
16.	Female	37
17.	Female	25
18.	Female	35

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RAD SAFE REPORT

(Evacuation and Decontamination of Marshallese Natives)

I. Data:

	: Island	: READINGS (in MR/HR):		: Inhabited	: Time of Readings
		: Ave.	: Max.		
Ailinginae	: Rongelap	: 1473	: 1900	: Yes	: 031045M
	: Eniwetok	: 3035	: 3650	: No	: 031245M
	: Enibuk	: 445	: 550	: No	: 031545M
	: Sifo	: 412	: 480	: Yes	: 031715M
Totals	: 4	: - - - - -	: - - - - -	: 2	: - - - - -

II. DECONTAMINATION: (PERSONNEL)

1. Decontamination readings are as follows:

Average Readings

	: Before	: After
: ISLAND	: Decontamination	: Decontamination
: Rongelap	: 60 MR/HR	: 25 MR/HR
: Sifo	: 40 MR/HR	: 15 MR/HR

NOTE #1. Clothing was slightly contaminated even after decontaminating procedures were employed due to its rough surface and prolonged exposure to radiation. However, maximum readings of less than 50 MR/HR did not warrant discarding women's clothing due to the short time it was to be worn. BRUNO FRC

- NOTE #2. Decontamination upon leaving the ship: 20-22 MR/HR.

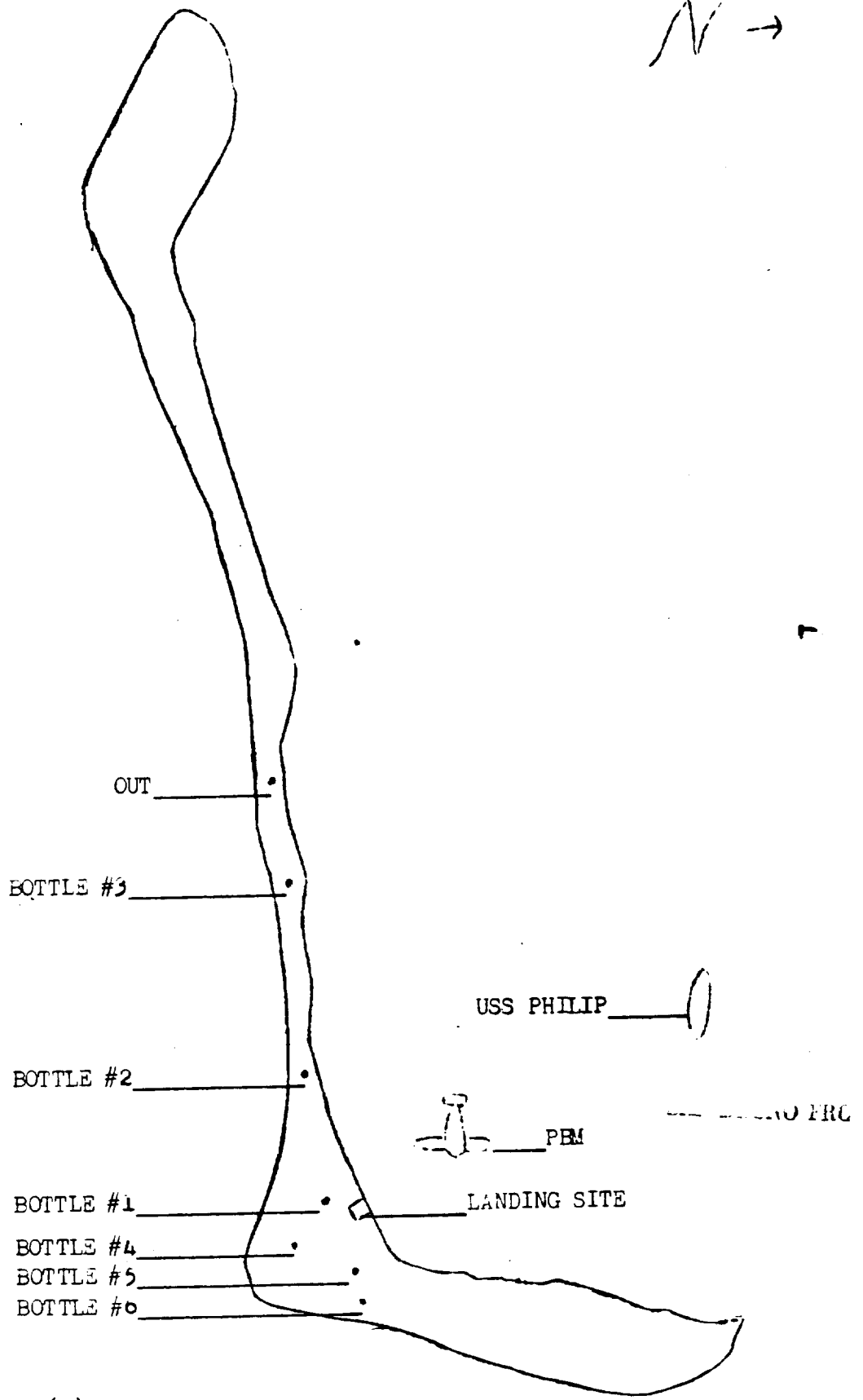
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Enclosure (2)

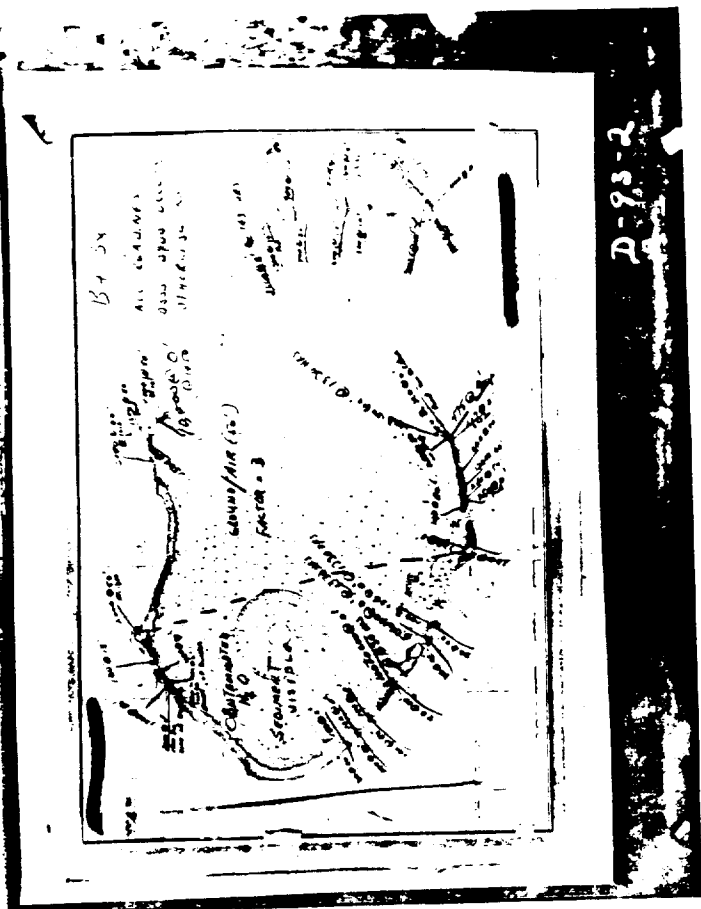
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LOCATION OF WELLS SAMPLED 5 MARCH 1950 RONGELAP ISLAND.

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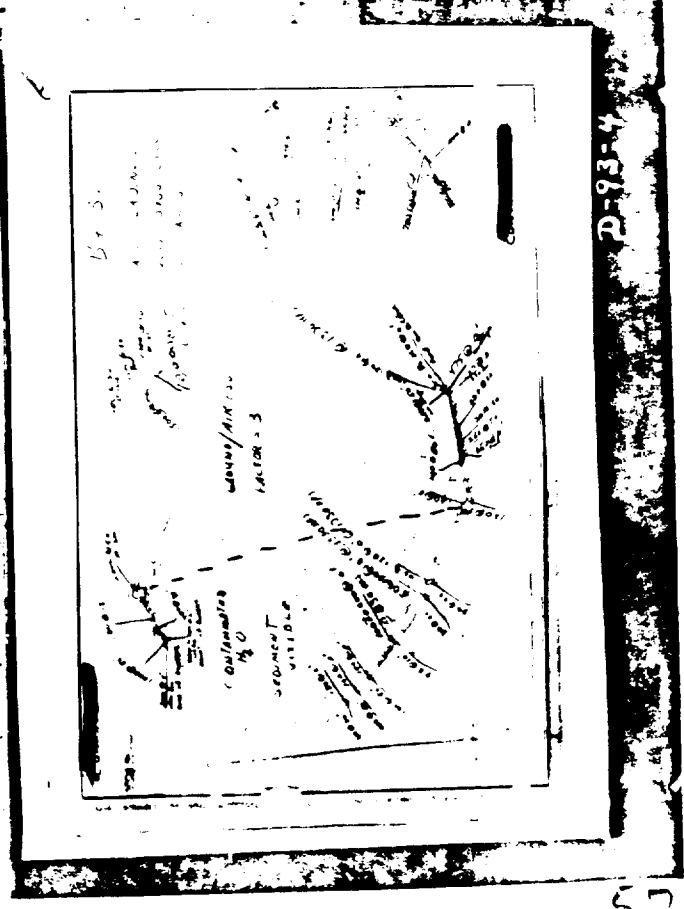
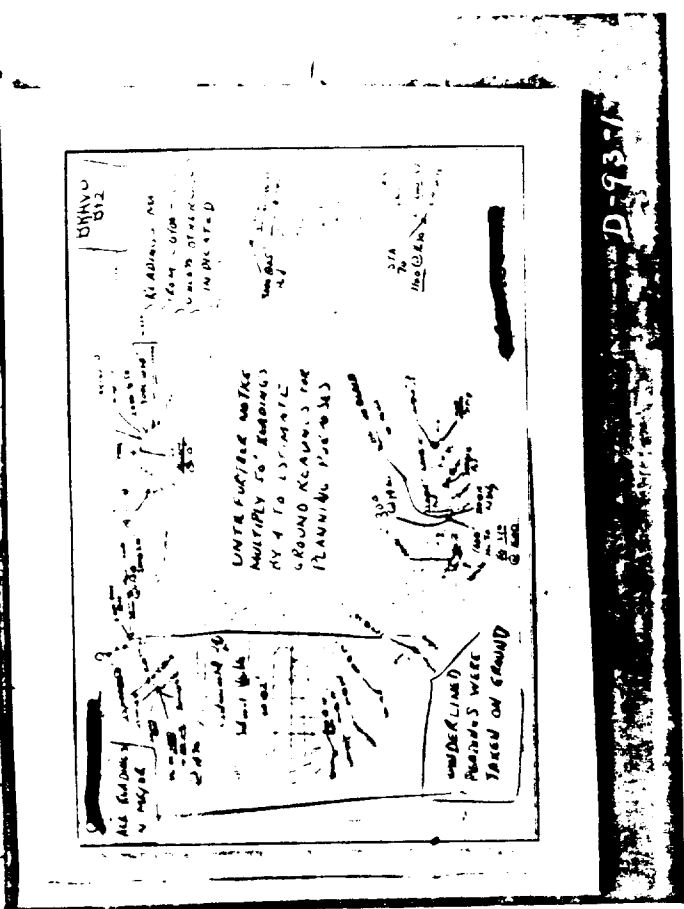
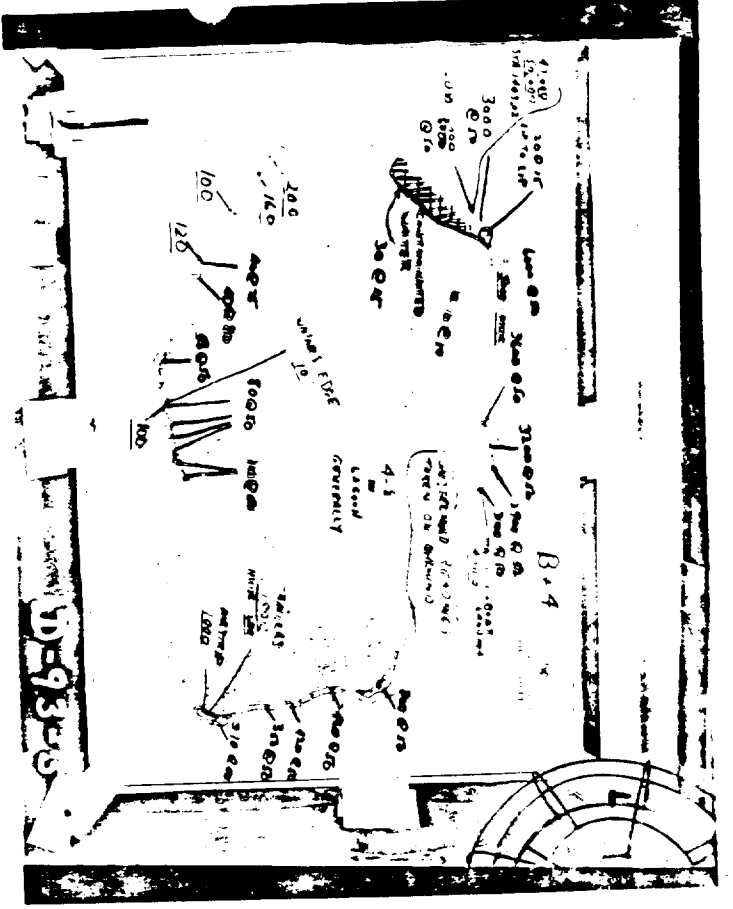


Enclosure (3)

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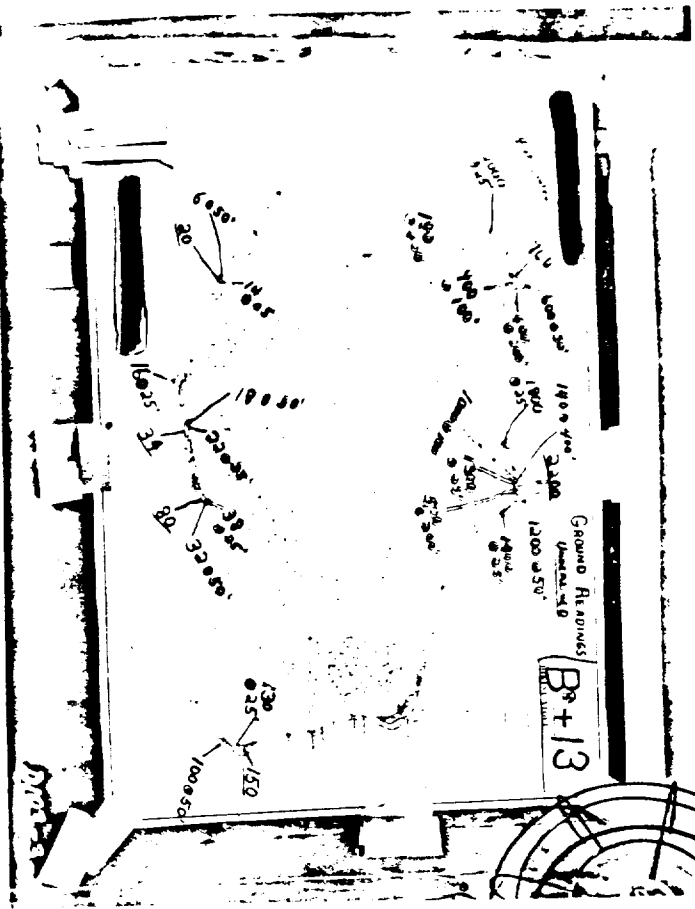


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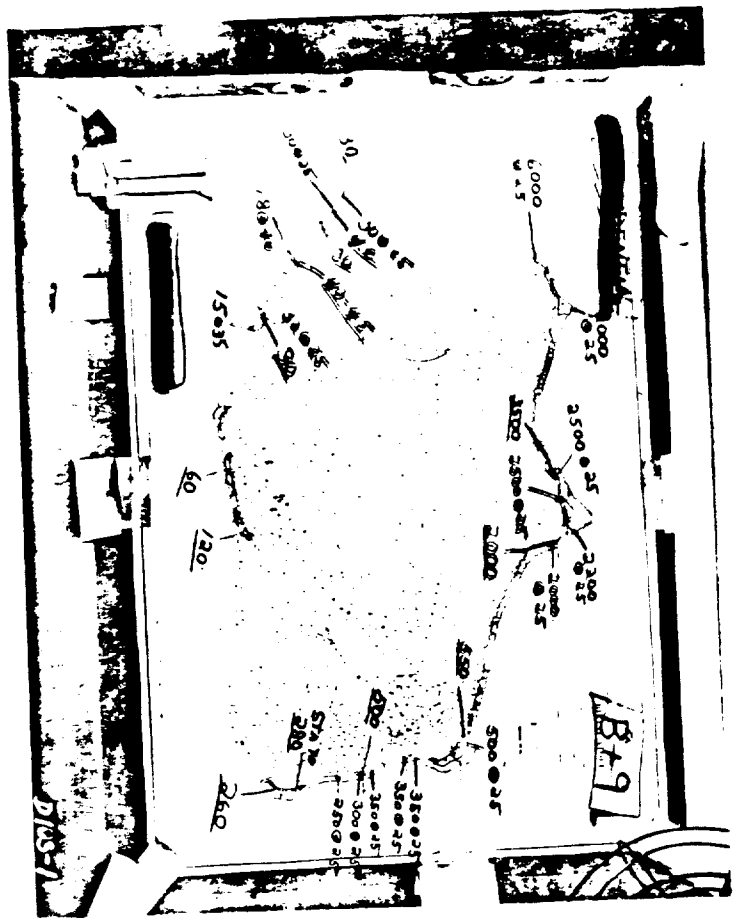




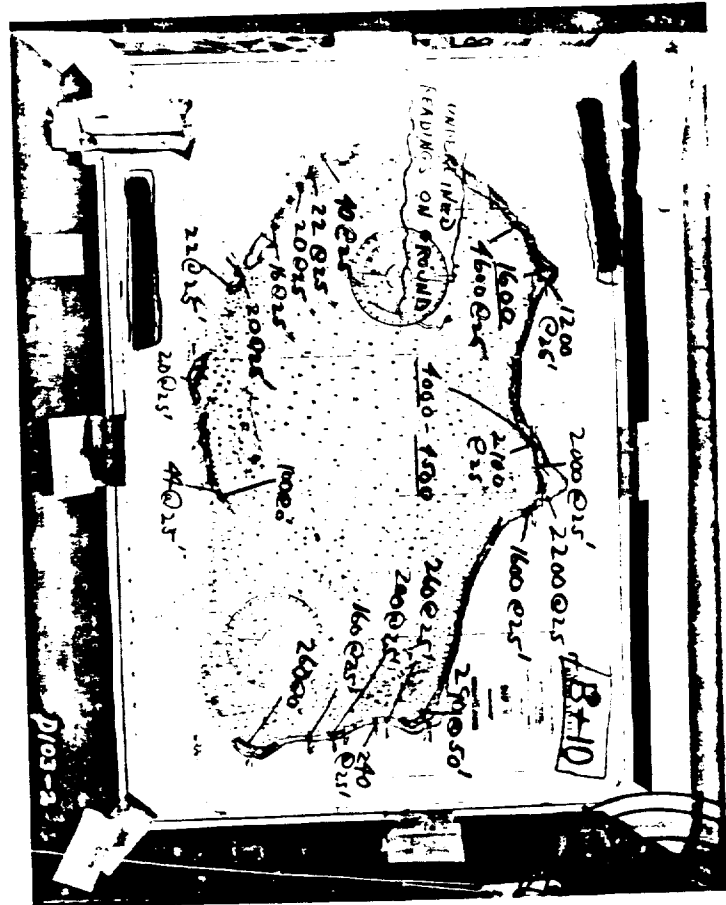
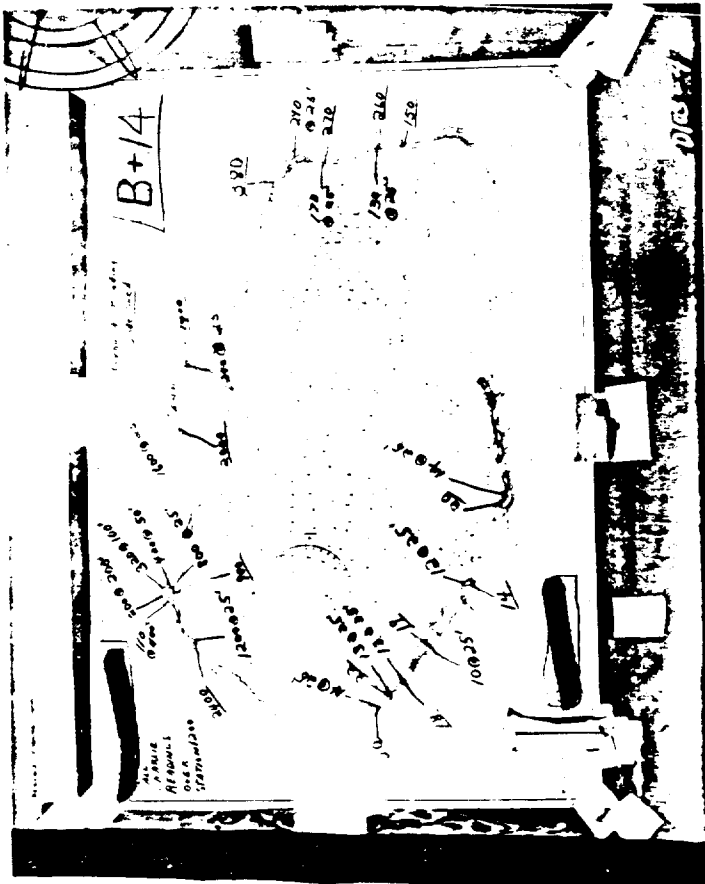




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GROUND READINGS

