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8725 JOHN J. KINGMAN ROAD
FORT BELVOIR, VIRGINIA 22060-6218

IN REPLY
REFER TO: DTIC-R (FOIA 2019-107)

MAY 24 2019

Mr. John Greenewald Jr.
27305 W. Live Oak Rd.
Suite # 1203
Castaic, CA 91384

Dear Mr. Greenewald:

This is in response to your email dated May 3, 2019, requesting information under the Freedom of Information Act (FOIA) (enclosure 1). Under Department of Defense rules implementing the FOIA, published at 32 CFR 286, your request was categorized as "other".

Enclosure 2 is a copy of AD0284870 entitled "Project Skyhook."

To date, there are no assessable fees for services from DTIC. Please understand that other members of the public may submit a FOIA request for copies of FOIA requests received by this office, or the names of those who have submitted requests. Should such occur, your name and, if asked for, a copy of your request will be released; however, your home address and home telephone number will not be released. Other private citizens who have obtained your name by using such a request may contact you; however, correspondence from the DoD about your request will be on official letterhead. Please contact me at (571) 448-9702 if you have any questions. Thank you for your interest in obtaining information from DTIC.

Sincerely,

A handwritten signature in black ink, appearing to read "Michael Hamilton".

Michael Hamilton
FOIA Program Manager

2 Enclosures

Crawford, Patricia A CIV DTIC RM (USA)

From: National.FOIAPortal@usdoj.gov on behalf of National FOIA Portal
<National.FOIAPortal@usdoj.gov>
Sent: Friday, May 3, 2019 1:10 PM
To: DTIC Ft Belvoir RM Mailbox FOIA
Subject: [Non-DoD Source] New FOIA request received for Defense Technical Information Center
Attachments: FOIA Request confirmation #59431.pdf

Hello,

A new FOIA request was submitted to your agency component:

The following list contains the entire submission, and is formatted for ease of viewing and printing.

Contact information

First name John
Last name Greenewald
Mailing Address 27305 W Live Oak Rd.
Suite 1203
City Castaic
State/Province CA
Postal Code 91384
Country United States
Phone 8004562228
Company/Organization The Black Vault
Email john@greenewald.com

Request

Request ID 59956
Confirmation ID 59431

Request description To whom it may concern, This is a non-commercial request made under the provisions of the Freedom of Information Act 5 U.S.C. S 552. My FOIA requester status as a "representative of the news media." I am a freelance television producer often working on documentaries related to my FOIA requests, my work is commonly featured throughout major news organizations, and I freelance writer for news sites as well. Examples can be given, if needed. I prefer electronic delivery of the requested material either via email to john@greenewald.com, FAX 1-818-659-7688 or via CD-ROM or DVD via postal mail. Please contact me should this FOIA request should incur a charge. I respectfully request a copy of records, electronic or otherwise, of the following document: Accession Number : AD0284870 Title : PROJECT SKYHOOK Corporate Author : WINZEN RESEARCH INC MINNEAPOLIS MINN Personal Author(s) : ENDERSON,ROBERT M. Report Date : 31 AUG 1962 Pagination or Media Count : 1 Abstract : A summary of three 'Skyhook' balloon flights is given followed by detailed flight reports of each flight. The scientific objective was

satisfied on each flight. Balloon performance on each flight was good although the time altitude curve of Flight 890 shows a very slow descent starting approximately two hours after launch. In approximately ten hours the balloon descended from 118,000 to 104,000 feet. A small hole in the balloon, which is understandable in consideration of the 1/2 mil polyethylene shell, could account for the slow descent. Operational and launch problems encountered on the flights are outlined. (Author) Thank you so much for your time, and I am very much looking forward to your response. Sincerely, John Greenewald, Jr. 27305 W. Live Oak Rd. Suite #1203 Castaic, Ca. 91384 FAX 1-818-659-7688

Supporting documentation

Fees

Request category ID media
 Fee waiver no

Expedited processing


Expedited Processing no

The following table contains the entire submission, and is formatted for ease of copy/pasting into a spreadsheet.

request_id	confirmation_id	address_city	address_country	address_line1	address_line2	address_state_province	address_zip_postal_code	company_organization	email	expedited_processing	fee_waiver	name_first	name_last	phone_number	request_category	request_description
59956	59431	Castaic	United States	27305 W Live Oak Rd.	Suite 1203	CA	91384	The Black Vault	john@greenewald.com	no	no	John	Greenewald	8004562228	media	To whom it may concern, This is a non-commercial request made under the provisions of the Freedom of Information Act 5 U.S.C. S 552. My FOIA requester status as a "representative of the news media." I am a freelance television producer often working on documentaries related to my FOIA requests, my work is commonly featured throughout major news organizations, and I freelance writer for news sites as well. Examples can be given, if needed. I prefer electronic delivery of the requested material either via email to john@greenewald.com, FAX 1-818-659-7688 or via CD-ROM or DVD via postal mail. Please contact me should this FOIA request should incur a charge. I respectfully request a copy of records, electronic or otherwise, of the following document: Accession Number : AD0284870 Title : PROJECT SKYHOOK Corporate Author : WINZEN RESEARCH INC MINNEAPOLIS MINN Personal Author(s) : ENDERSON,ROBERT M. Report Date : 31 AUG 1962 Pagination or Media Count : 1 Abstract : A summary of three 'Skyhook' balloon flights is given followed by detailed flight reports of each flight. The scientific objective was satisfied on each flight. Balloon performance on each flight was good although the time altitude curve of Flight 890 shows a very slow descent starting approximately two hours after launch. In approximately ten hours the balloon descended from 118,000 to 104,000 feet. A small hole in the balloon, which is understandable in consideration of the 1/2 mil polyethylene shell, could account for the slow descent. Operational and launch problems encountered on the flights are outlined. (Author) Thank you so much for your time, and I am very much looking forward to your response. Sincerely, John Greenewald, Jr. 27305 W. Live Oak Rd. Suite #1203 Castaic, Ca. 91384 FAX 1-818-659-7688

This document is made available through the declassification efforts
and research of John Greenewald, Jr., creator of:

The Black Vault



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document clearinghouse in the world. The research efforts here are
responsible for the declassification of hundreds of thousands of pages
released by the U.S. Government & Military.

Discover the Truth at: <http://www.theblackvault.com>

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First name	John
Last name	Greenewald
Mailing Address	27305 W Live Oak Rd. Suite 1203
City	Castaic
State/Province	CA
Postal Code	91384
Country	United States
Phone	8004562228
Company/Organization	The Black Vault
Email	john@greenewald.com

Request

Request ID	59956
Confirmation ID	59431

Request description

To whom it may concern, This is a non-commercial request made under the provisions of the Freedom of Information Act 5 U.S.C. S 552. My FOIA requester status as a "representative of the news media." I am a freelance television producer often working on documentaries related to my FOIA requests, my work is commonly featured throughout major news organizations, and I freelance writer for news sites as well. Examples can be given, if needed. I prefer electronic delivery of the requested material either via email to john@greenewald.com, FAX 1-818-659-7688 or via CD-ROM or DVD via postal mail. Please contact me should this FOIA request should incur a charge. I respectfully request a copy of records, electronic or otherwise, of the following document: Accession Number : AD0284870 Title : PROJECT SKYHOOK Corporate Author : WINZEN RESEARCH INC MINNEAPOLIS MINN Personal Author(s) : ENDERSON,ROBERT M. Report Date : 31 AUG 1962 Pagination or Media Count : 1 Abstract : A summary of three 'Skyhook' balloon flights is given followed by detailed flight reports of each flight. The scientific objective was satisfied on each flight. Balloon performance on each flight was good although the time altitude curve of Flight 890 shows a very slow descent starting approximately two hours after launch. In approximately ten hours the balloon descended from 118,000 to 104,000 feet. A small hole in the balloon, which is understandable in consideration of the 1/2 mil polyethylene shell, could account for the slow descent. Operational and launch problems encountered on the flights are outlined. (Author) Thank you so much for your time, and I am very much looking forward to your response. Sincerely, John Greenewald, Jr. 27305 W. Live Oak Rd. Suite #1203 Castaic, Ca. 91384 FAX 1-818-659-7688

Supporting documentation

Fees

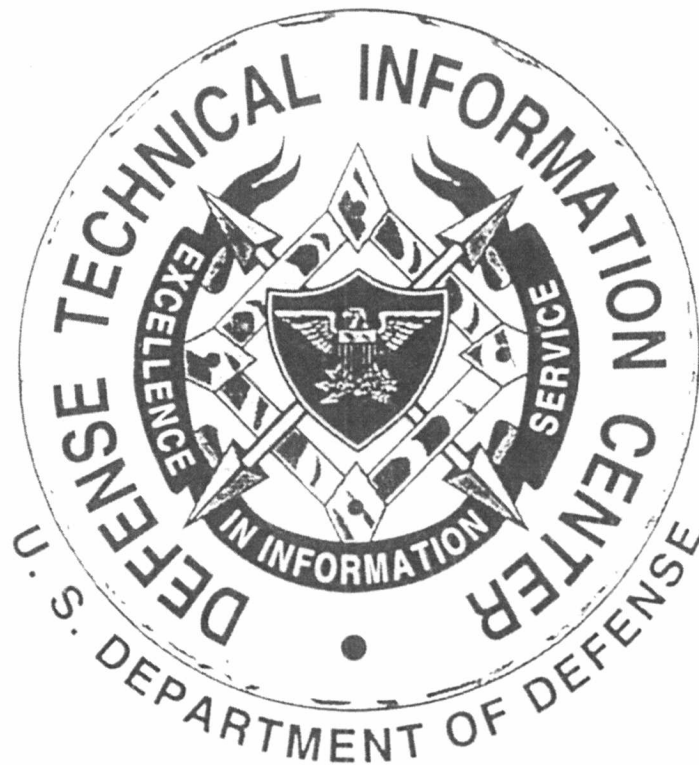
Request category ID	media
Fee waiver	no

Expedited processing

Expedited Processing	no
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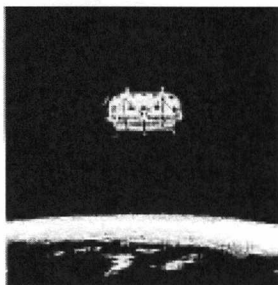
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955-2520

WINZEN RESEARCH INC
ASTIA

OCT 3 1962





WINZEN RESEARCH INC.

8401 LYNDALE AVENUE SOUTH
MINNEAPOLIS 20, MINNESOTA
TELEPHONE TUXEDO 1-5871

PROJECT SKYHOOK PROGRESS REPORT

CONTRACT NONR 1460(10)

1 Jan 1961 through 31 Dec 1961

Report No. : 1270-R

Prepared For: Chief of Naval Research
Code 421
Department of the Navy
Washington 25, D.C.

Submitted By: Winzen Research Inc.
Minneapolis 20, Minnesota

Prepared By: Robert M. Enderson

Approved By: Jean R. Nelson

Date: 31 August 1962

TABLE OF CONTENTS

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Enclosure I	
Summary of Skyhook Balloon Flights	
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Balloon Flight Reports	

I. SUMMARY

This report covers work accomplished for the U.S. Navy under Contract NONR 1460(10). The period covered is 1 January 1961 through 31 December 1961.

During this period, three Skyhook Balloon Flights were conducted. All flights were successful with respect to flight operations and balloon performance. The scientific investigator on all flights was Dr. James Earl of the Physics Department, University of Minnesota, Minneapolis 14, Minnesota.

II. FLIGHT OPERATIONS

three 'SKYHOOK' balloons

A summary of the flights conducted is given in ~~Enclosure-1~~, followed by detailed flight reports of each flight.

The scientific objective was satisfied on each flight. Balloon performance on each flight was good although the time altitude curve of Flight 890 shows a very slow descent starting approximately two hours after launch. In approximately ten hours the balloon descended from 118,000 ~~feet~~ to 104,000 feet. A small hole in the balloon, which is understandable in consideration of the 1/2 mil polyethylene shell, could account for the slow descent.

Operational and launch problems encountered on the flights are outlined below.

Flight No. 888

The anchor line cutter severed the anchor line at launch but the cutter box fouled in the load line. The cutter box with its squib firing cable was carried aloft with the flight. This was not detrimental to the flight. On future flights, more separation will be allowed between the cutter box and load line to prevent fouling in the load line.

Flight No. 889

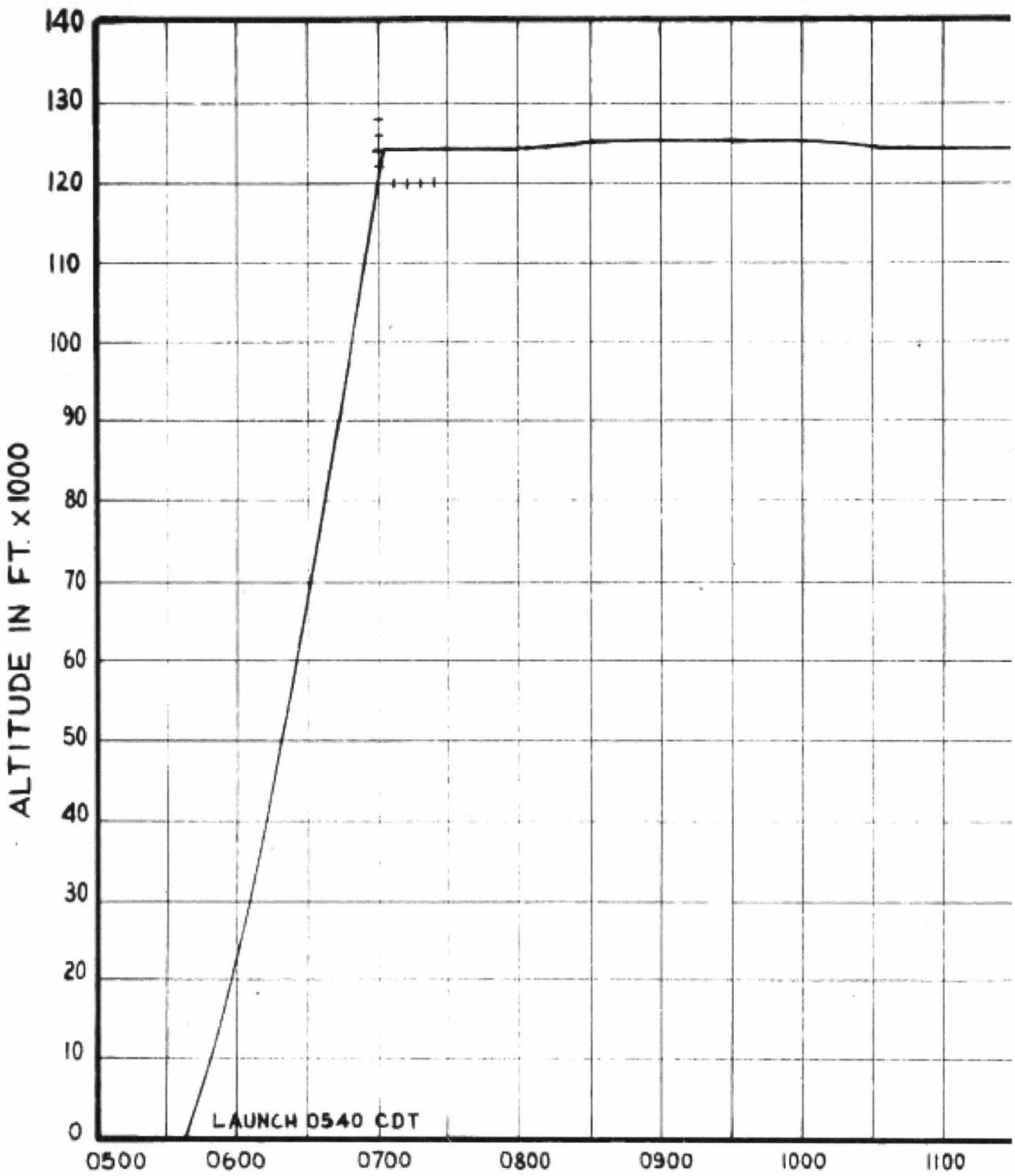
Radio command termination was attempted on this flight from the Winzen Research Inc. plant with negative results.

Termination could not be attempted from the aircraft because of a fouled antenna. The flight was terminated by timer, on schedule.

It was concluded that a combination of distance, atmospheric disturbance and command antenna deployment prevented radio command termination. The command unit was checked out on return and found to be operative.

Flight No. 890

Severe electrical thunderstorms made communications between tracking stations impossible in the final stage of the flight. The load was removed from the impact site by the local populace before the tracking aircraft could guide the ground vehicle to the impact site. The reward tags on the payload listed obsolete telephone numbers which caused several hours delay in the ground recovery people obtaining the payload.



1

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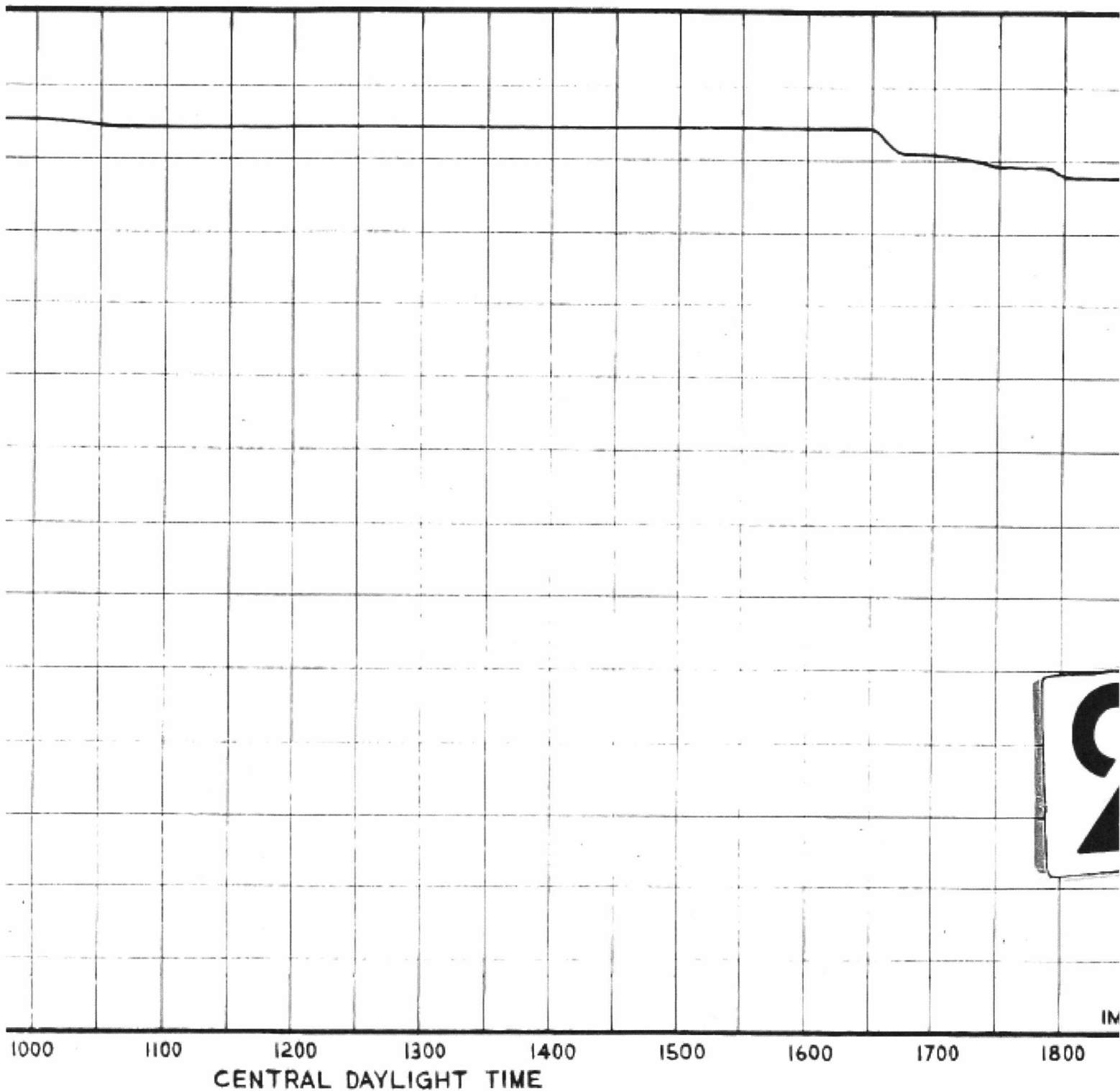
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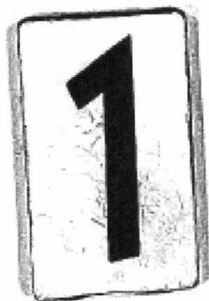
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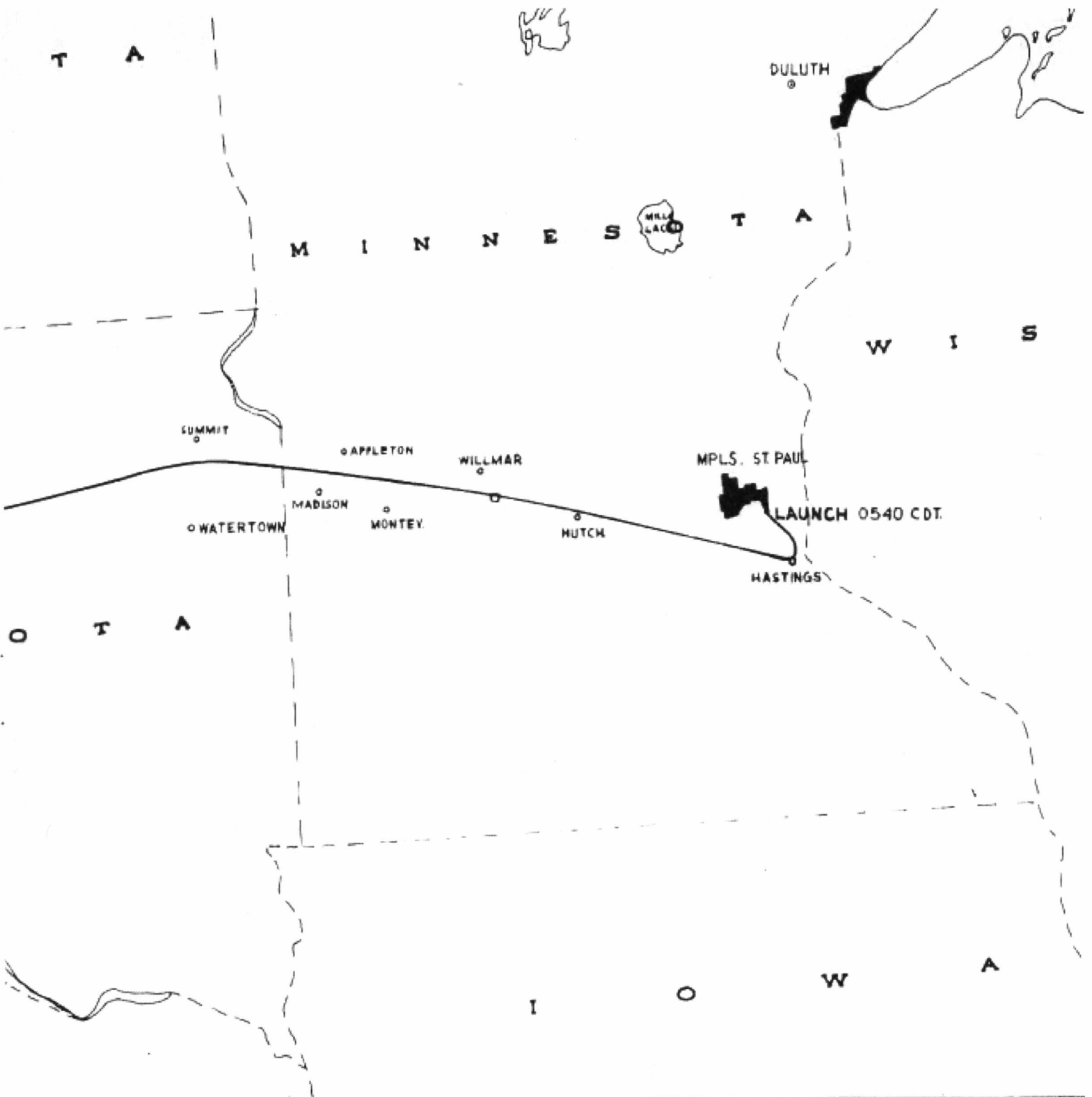
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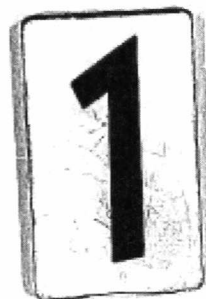
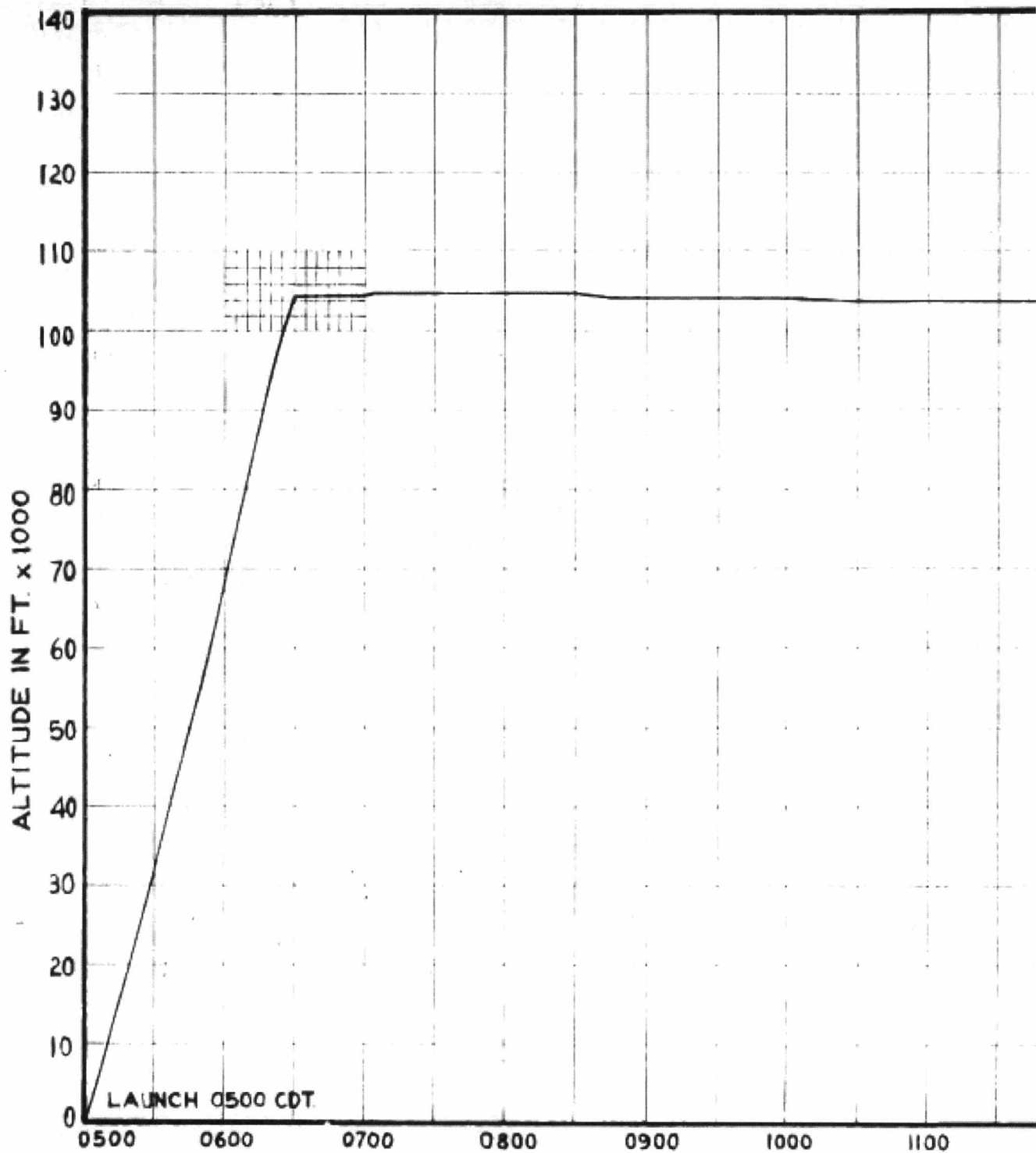


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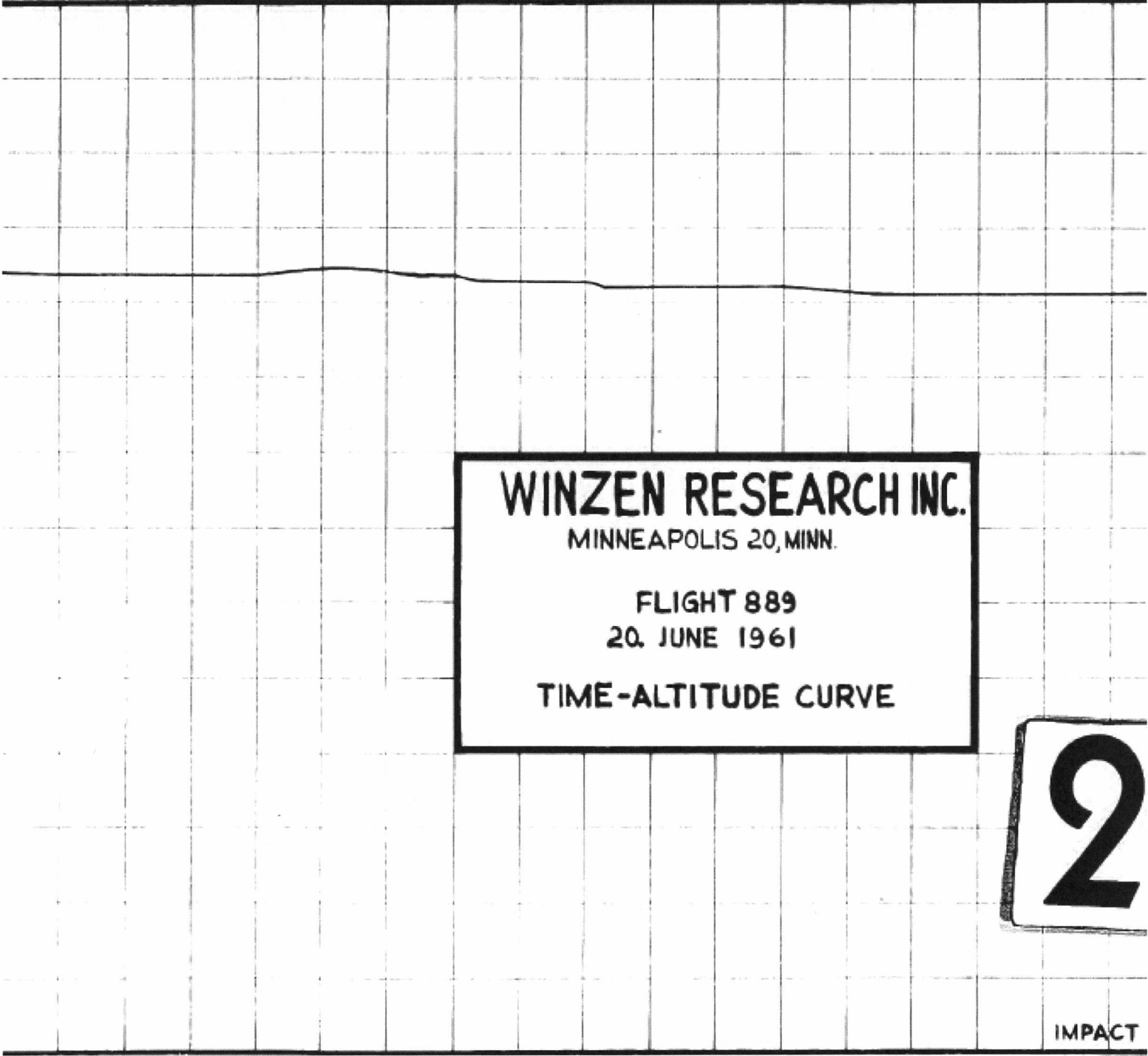
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 MINNEAPOLIS 20, MINN.

FLIGHT 889
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 8401 Lyndale So. Minneapolis 20

FLIGHT CENTER
 Fleming Field So. St. Paul, Minn.

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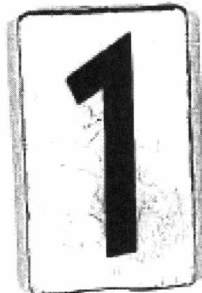
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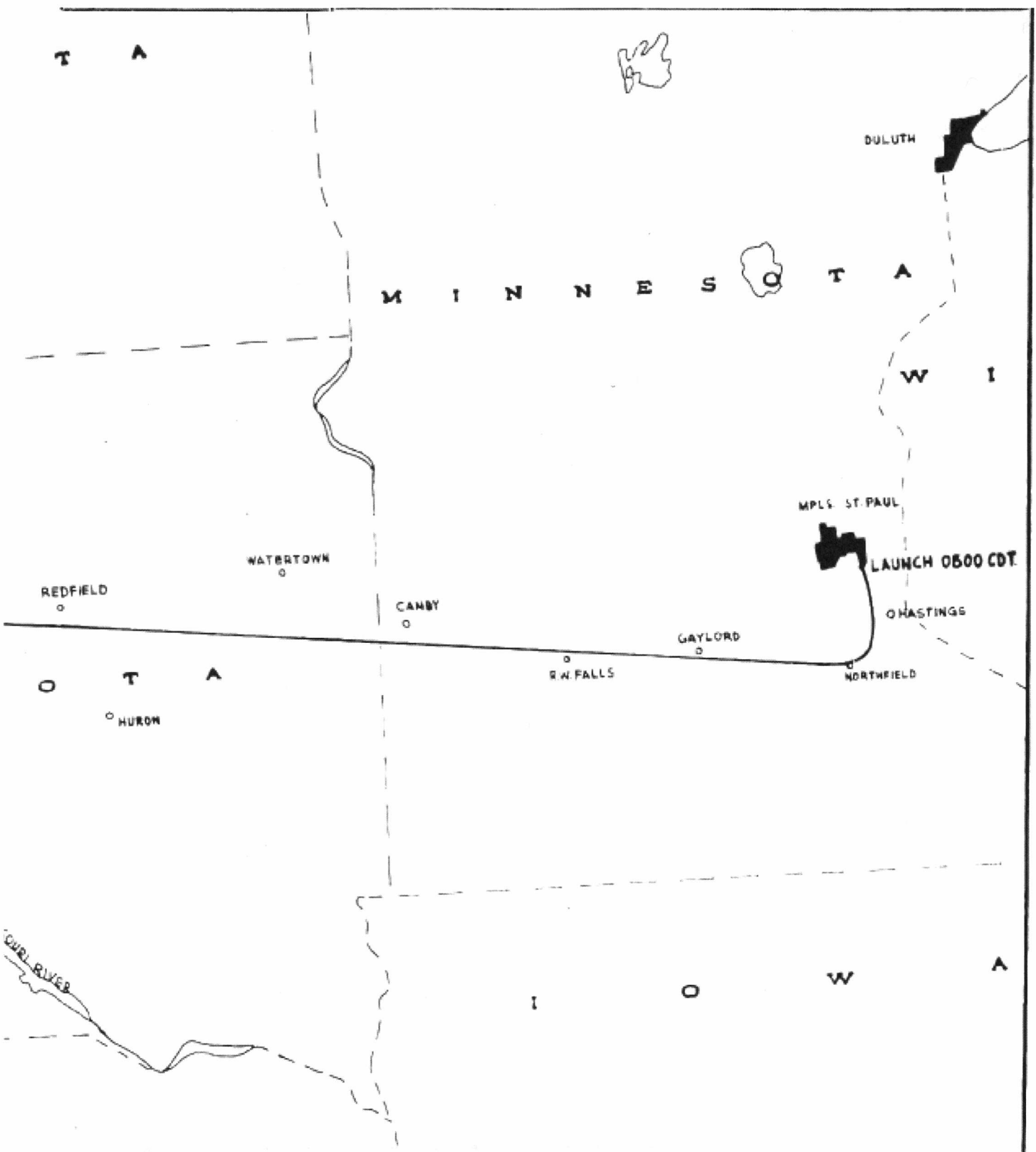
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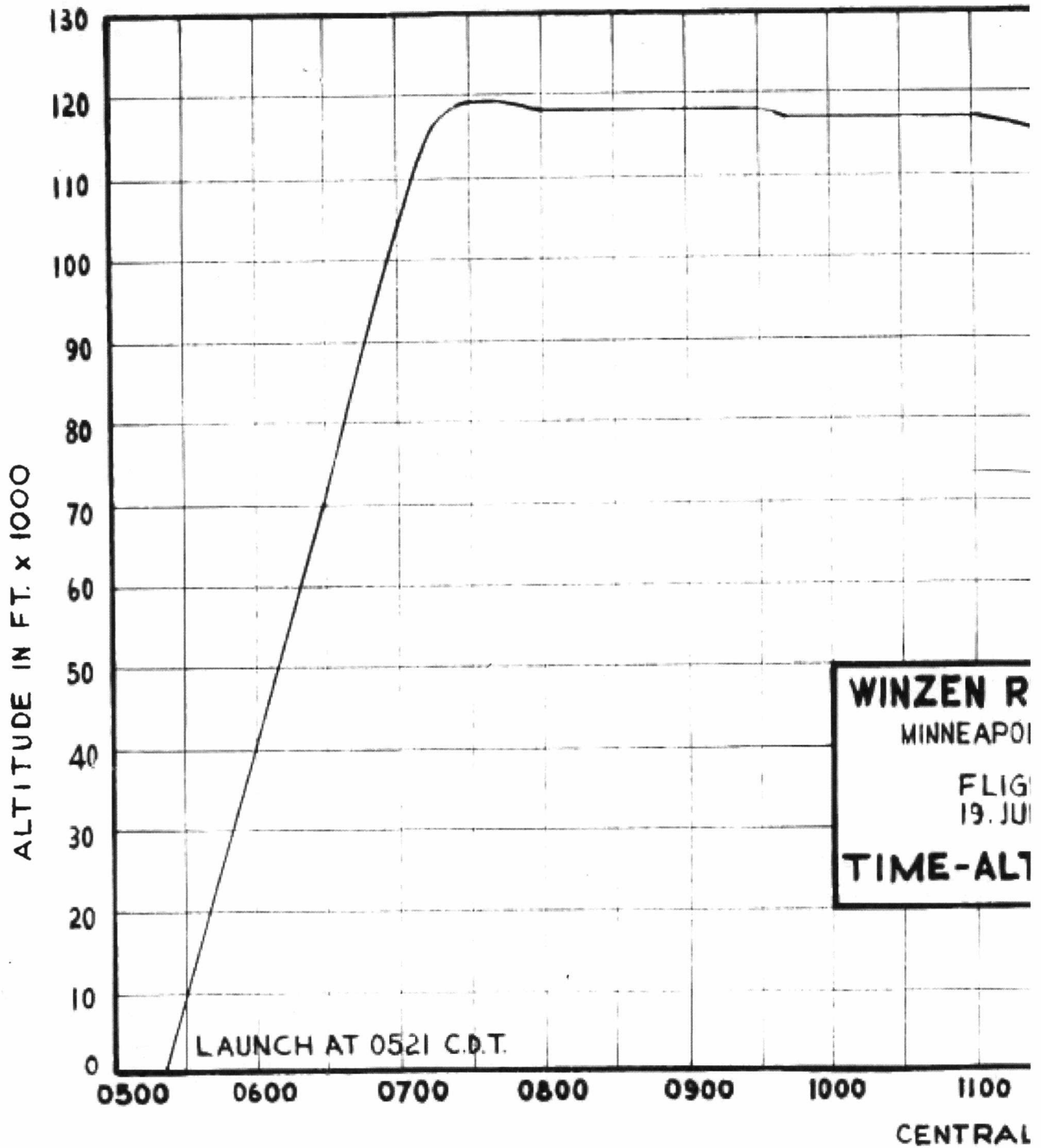
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DR CH APP	DATE 6-22-61	TITLE TRAJECTORY CURVE FLIGHT # 889	WINZEN RESEARCH INC. OFFICE & PLANT 8401 Lyndale So. Minneapolis 20 FLIGHT CENTER Fleming Field So. St. Paul, Minn.
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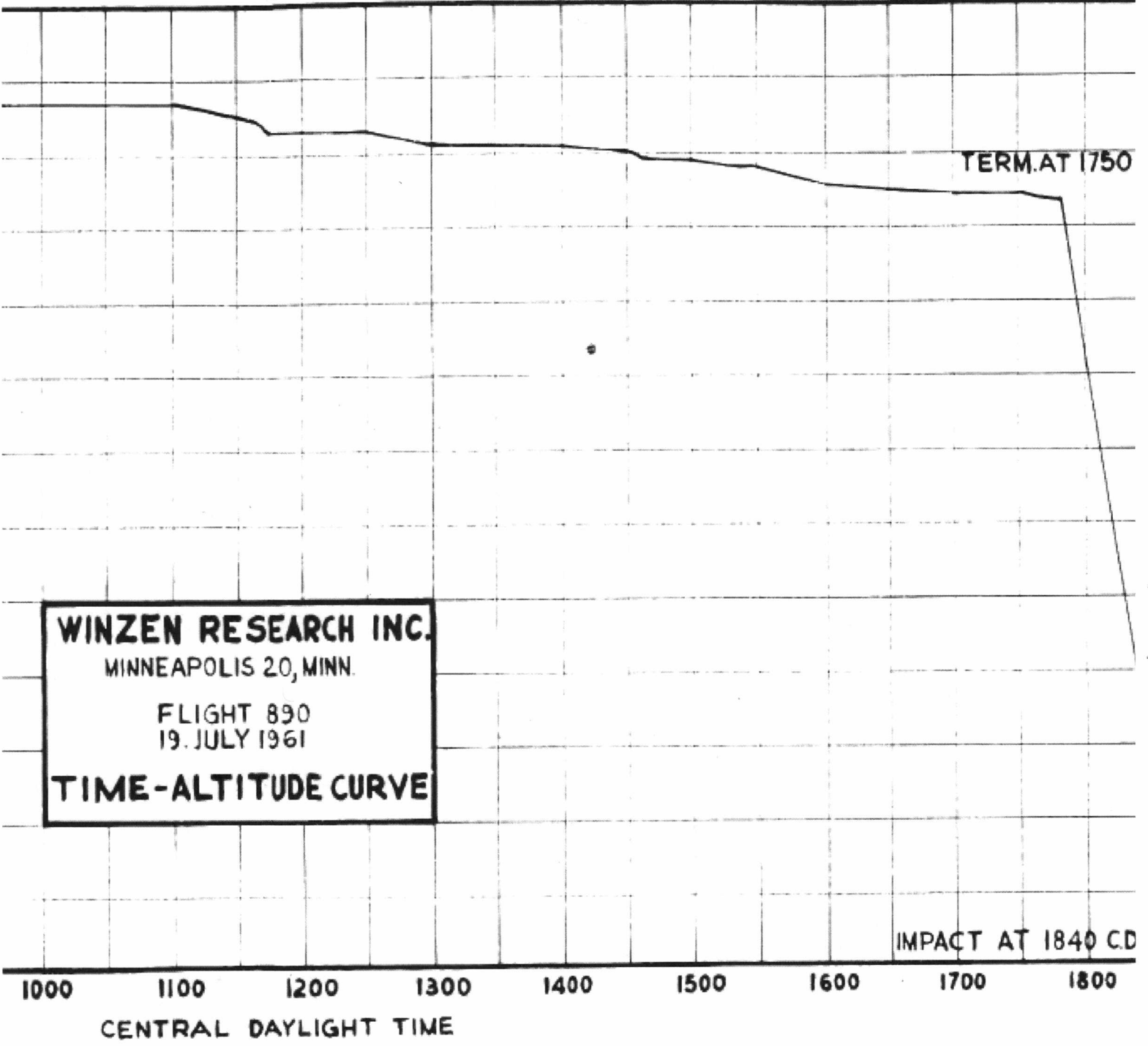
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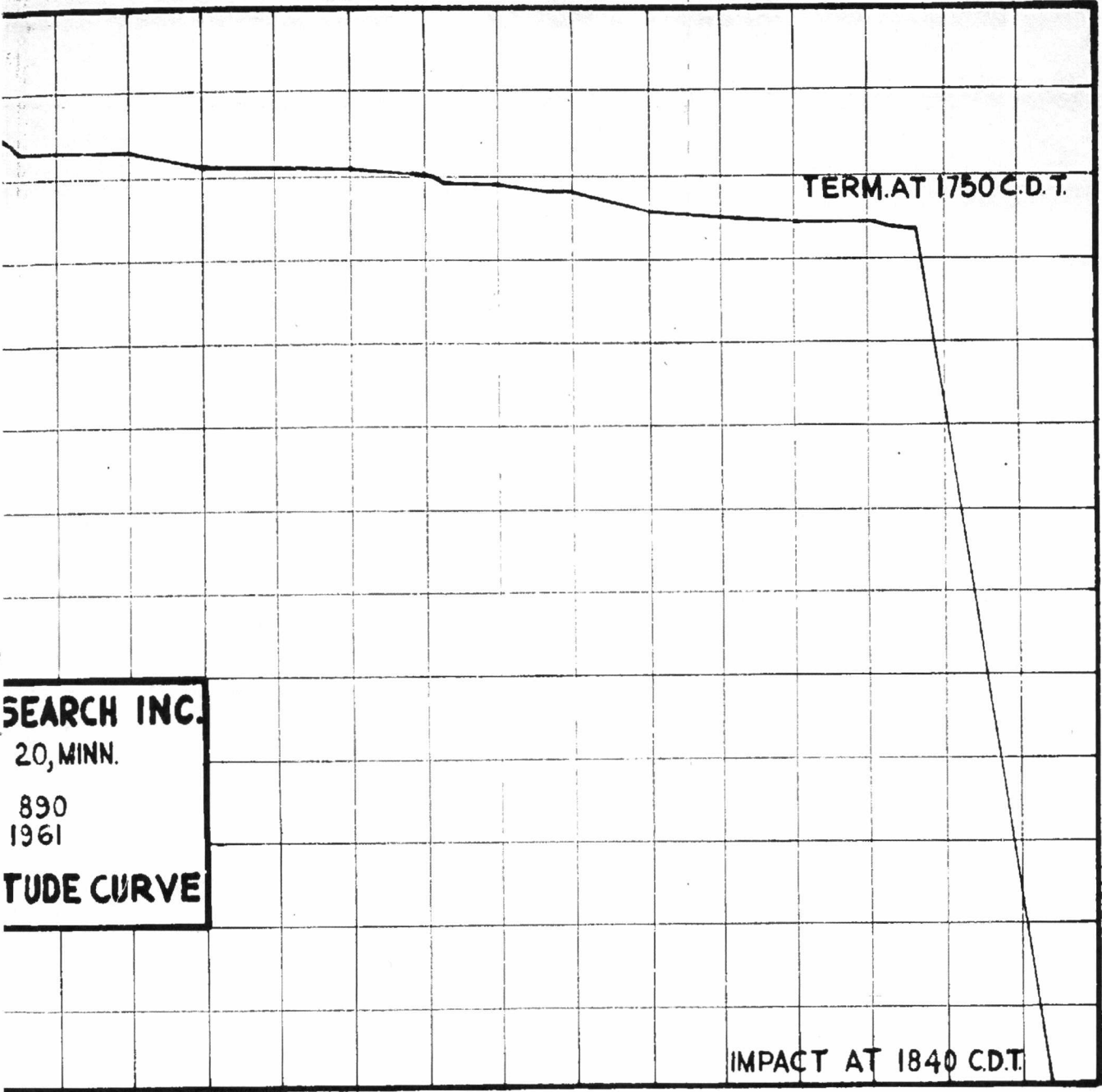


WINZEN RESEARCH INC.
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WINZEN RESEARCH INC.
 OFFICE & PLANT
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 FLIGHT CENTER
 Fleming Field So. St. Paul, Minn.
 DRG. NO.

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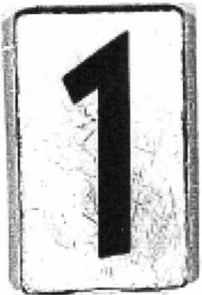
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PIERRE

RAPID CITY

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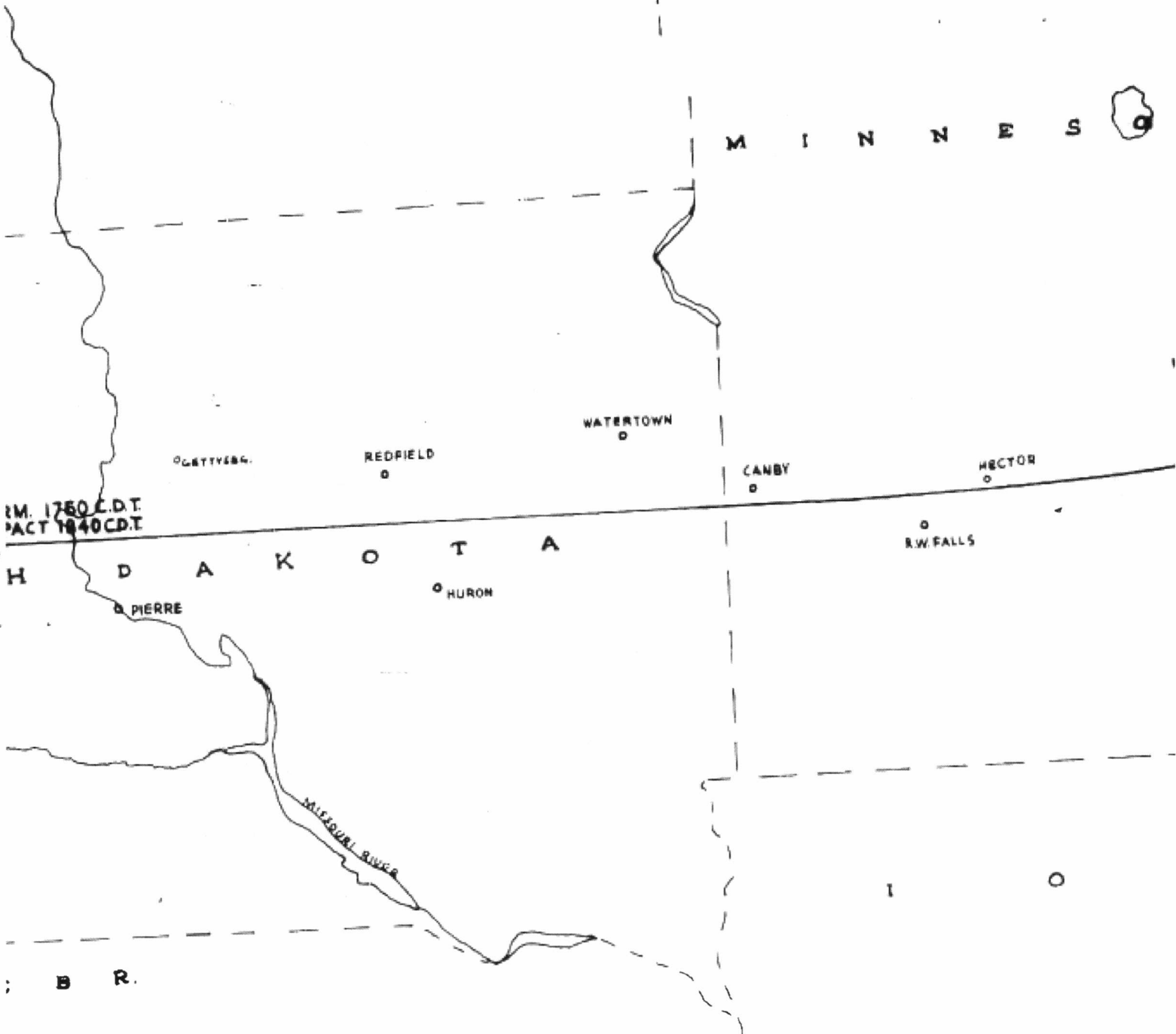
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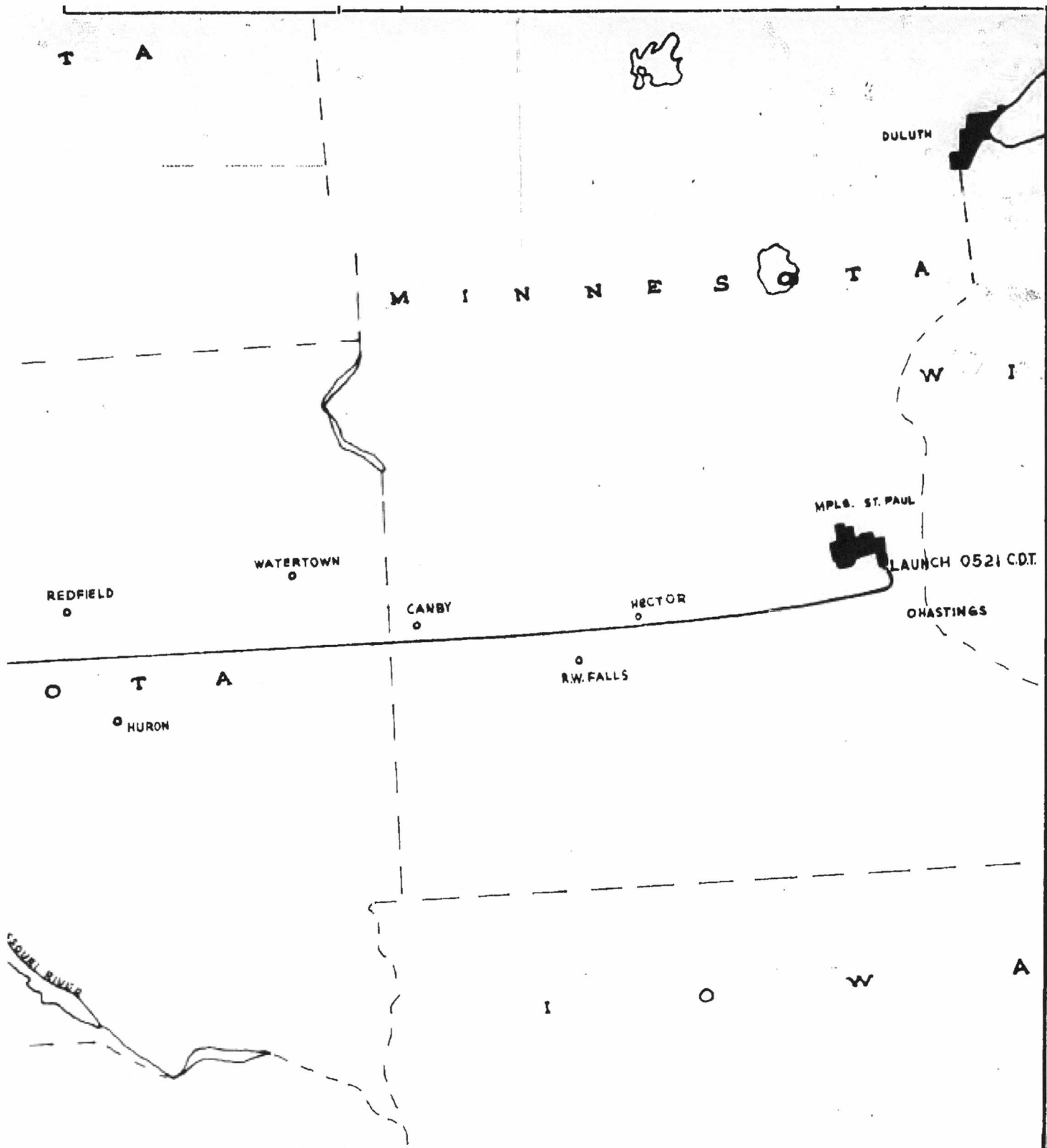
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DATE **7-21-61**
10/26/61

TITLE

**TRAJECTORY CURVE
 FLIGHT # 890**

WINZEN RESEARCH INC.
 OFFICE & PLANT
 8401 Lyndale So. Minneapolis 20

FLIGHT CENTER
 Fleming Field So. St. Paul, Minn.

DRG. NO.
518046

SCALE

WT.

SUMMARY OF SKYHOOK BALLOON FLIGHTS

Dr. James Earl, University of Minnesota - Primary Investigator

FLIGHT NO. 888 - 16 June 1961

Experiment	Cloud Chamber
Balloon Volume	2,000,000
Material Thickness	.0005
Balloon Weight	384
Payload Weight	244
Gross Inflation	692
Launch Site	Fleming Field, South St. Paul, Minnesota
Impact Site	10 miles S.W., Gettysburg, South Dakota
Flight Duration	14 hours 2 minutes
Operational Remarks	Good

FLIGHT NO. 889 - 22 June 1961

Experiment	Cloud Chamber
Balloon Volume	711,000
Material Thickness	.001
Balloon Weight	245
Payload Weight	253
Gross Inflation	548
Launch Site	Fleming Field, South St. Paul, Minnesota
Impact Site	20 miles NNW Wall, South Dakota
Flight Duration	14 hours 55 minutes
Operational Remarks	Good

FLIGHT NO. 890 - 21 July 1961

Experiment	Cloud Chamber
Balloon Volume	2,000,000
Material Thickness	.0005
Balloon Weight	387
Payload Weight	226
Gross Inflation	663
Launch Site	Fleming Field, South St. Paul, Minnesota
Impact Site	Chreey Creek, South Dakota
Flight Duration	12 hours 44 minutes
Operational Remarks	Good

APPENDIX

BALLOON FLIGHT REPORT

Flight No. 888

Date: 16 June 1961

Time: 0540 CDT

Project No.: NA 518

Flight For: Office of Naval Research, Dr. J. Earl
University of Minnesota

Scientific Payload: Cloud Chamber

Weight: 160 pounds

Scientific Purpose: Measure primary cosmic radiation

Scientific Success: Good

BALLOON DATA

Manufacturer: Winzen Research Inc. Size: 2×10^6 ft.³ Serial No.: 86

Type: Natural shape, 1/2 mil material, 250 lb. load tapes Weight: 384

LAUNCHING DATA

Launching Site: Fleming Field, S. St. Paul Launching Method: Platform

Wind: Calm

Sky: Clear

Temperature: 68° F

Total Payload: 244 lbs.

Free Lift: 13% 82 lbs.

Gross Inflation: 711 lbs

FLIGHT DATA

Max. Altitude: 125,250 feet

Theoretical Altitude: 122,500 feet

Flight Duration: 14 hours 2 minutes

Altitude Maintenance: Good

Ballast: None

Rate of Ascent: 1500 ft/min

Landing Site: 10 mi SW Gettysburg, S.D.

Recovery Time: 2030

Balloon Performance: Very good

Balloon Landing Site: Burst

FLIGHT RESUME

Balloon inadvertently inflated to 13% free lift causing high ascent rate. Inflation within balloon duct design capability. Anchor line cutter box cable fouled in flight train on launch and remained with flight train during flight.

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BALLOON FLIGHT REPORT

Flight No.: 889

Date: 22 June 1961

Time: 0500 CDT

Project No.: NA 518

Flight For: Office of Naval Research, Dr. J. Earl
University of Minnesota

Scientific Payload: Cloud Chamber

Weight: 162 lbs.

Scientific Purpose: Measure primary cosmic radiation

Scientific Success: Good

BALLOON DATA

Manufacturer: Winzen Research Inc.

Size: 711,000ft³

Serial No.: 59

Type: Natural shape, 1 mil material 250 lb. load tapes

Weight: 245 lbs.

LAUNCHING DATA

Launch Site: Fleming Field, S. St. Paul

Launching Method: Platform

Wind: Calm

Sky: Clear

Temperature: 72° F

Total Payload: 253 #

Free Lift: 10% 50#

Gross Inflation: 548 #

FLIGHT DATA

Max. Altitude: 104,500

Theoretical Altitude: 105,000

Flight Duration: 14 hours 55 minutes

Altitude Maintenance: Good

Ballast: None

Rate of Ascent: 1000 ft/min

Landing Site: 20 mi. NNW Wall, S.D.

Recovery Time: 2030 CDT

Balloon Performance: Very good

Balloon Landing Site: Burst

FLIGHT RESUME

Radio command cutdown could not be performed from aircraft because of fouled antenna. Cutdown attempted from plant with negative results. Timer terminated flight.

BALLOON FLIGHT REPORT

Flight No.: 890

Date: 21 July 1961

Time: 0521 CDT

Project No.: NA 518

Flight For: Office of Naval Research, Dr. J. Earl
University of Minnesota

Scientific Payload: Cloud Chamber

Weight: 160 lbs.

Scientific Purpose: Measure primary cosmic radiation

Scientific Success: Good

BALLOON DATA

Manufacturer: Winzen Research Inc. Size: 2 x 10⁶ ft³ Serial No.: 85

Type: Natural shape, 1/2 mil material, 250 lbs load tapes Weight: 387

LAUNCHING DATA

Launching Site: Fleming Field, S. St. Paul Launching Method: Platform

Wind: Calm

Sky: Clear

Temperature: 70°F

Total Payload: 226 #

Free Lift: 8% 49 #

Gross Inflation: 663 #

FLIGHT DATA

Maximum Altitude: 119,000 feet

Theoretical Altitude: 122,500

Flight Duration: 12 hours 44 minutes

Altitude Maintenance: Fair

Ballast: None

Rate of Ascent: 1,000 ft/min

Landing Site: Chreey Creek, S. Dak.

Recovery Time: 2030

Balloon Performance: Good

Balloon Landing Site: Burst

FLIGHT RESUME

Balloon slowly descended from maximum altitude of 119,000 feet at 0730

CDT to 104,000 feet at 1750 CDT.

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