

~~SECRET~~

above mentioned, I furnished to Raymond information which had come to my knowledge by virtue of my official employment and work under the overall control of the Manhattan Engineer District. This information, which I furnished to Raymond, included the fact that a large production plant was to be built in the Southeastern part of the United States for the production of fissionable material, and that this plant was to use two different processes, which I named, in the production of fissionable material. I also orally advised Raymond of the identities of certain leading research personnel on atomic energy projects. (S) U

In keeping with official instructions received by me, I was transferred to Los Alamos, New Mexico, where I arrived on or about August 14, 1944, for work on the atomic energy project there under the control and overall supervision of the Manhattan Engineer District. At Los Alamos I was provided a place of residence on the United States Government restricted area in a dormitory and took up employment as a physicist in the Theoretical Division of the Laboratory. By virtue of my work, my associations in connection with my work and the availability of confidential and classified official documents, I developed, received and had access to confidential, classified information of an official character. I remained in such employment at Los Alamos until about June 16, 1946. During this period of official employment I made a visit to the home of my sister, Mrs. Kristel Heineman, and her husband, Robert Heineman, on Lakeview Avenue, Cambridge, Massachusetts. I arrived at my sister's home on or about February 13, 1945, and remained there on a visit until about February 22, 1945. (S) U

Shortly after my arrival in Cambridge I was visited by Raymond, who asked me for additional information concerning my work at the Atomic Research Project at Los Alamos. I told him I would prepare in writing this material and made arrangements to meet him a few days later in Boston. At the agreed upon time I did meet Raymond in Boston, Massachusetts, at a place fairly near the Charles River and near a large public-type of building, reasonably close to what is known as North Station. I there delivered to Raymond a written report, which I had prepared in longhand consisting of about six or more pages, in which I had set forth confidential (S) U

These arrangements were made without the knowledge of my sister and her husband, who were not present during my discussion with Raymond and had no knowledge of its purpose. K.F.

Klaus Fuchs

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and classified information and data which I had received in connection with my employment at Los Alamos. This dealt with the whole problem of making an atomic bomb from fissionable material as I then knew the problem. This document included information known to me regarding the method of detonating an atomic bomb and other highly secret and technical information regarding the construction of an atomic bomb. I wrote this statement in my own handwriting and in English, and I intended that it should be delivered by Raymond through channels so as to reach physicists in the Soviet Union who would understand the technical language of the report. (S) U

I again met Raymond in Santa Fe, New Mexico, in June of 1945, the arrangements for this meeting having been made at the Boston meeting, mentioned above. We met on Alameda Street, and I then got my car and we drove out a lane to a deserted spot where we continued our meeting. At this meeting I delivered to Raymond a written report, which I had personally prepared in longhand. This included a description of an atomic bomb, which was to be tested at Alamogordo, a sketch of the bomb and its components with important dimensions indicated, and a written description of the various important technical aspects of the bomb. I orally informed Raymond, while we were in the car, the types of explosive to be used in the detonating of the bomb, the fact that the Trinity test was to be made, with the approximate site indicated, and information as to the intensity of the explosion measured in relation to TNT explosive force. (S) U

By prearrangement I again met Raymond in Santa Fe a few months later, I believe possibly in September. At this meeting I delivered to Raymond another written report, which detailed information concerning the Trinity test, which had been held at Alamogordo. I also furnished in the report certain other technical information which I had obtained from my work on the Atomic Research Project at Los Alamos. I fully intended in transmitting this report to Raymond that he should, in turn, transmit it so as to reach the Soviet Union. (S) U

I returned to England in the summer of 1946 and took up employment at the Atomic Research Project at Harwell, England. After my return to England, I was again in contact with persons whose real identities I do not know, but whom I contacted with the intent of furnishing to the Soviet Union information concerning atomic research developments. To these persons I furnished additional information concerning atomic research, which I had

Klaus Fuchs

came in possession of, both in the United States and England, including certain research being made on the problem of detonating a hydrogen bomb. My last contact in this respect was in February of 1949. (S) (U)

I have examined photographs shown to me by Assistant Director Hugh H. Clegg and Special Agent Robert J. Lamphere, both of the Federal Bureau of Investigation, and I have identified two of the photographs as the individual I knew under the name of Raymond. I have indicated my identification by signing my name and the date on the reverse sides of these two photographs. (S) (U)

I have personally and carefully read this statement consisting of seven single-spaced, typewritten pages and I do hereby state that all the above information is true and correct to the best of my knowledge and belief. (S) (U)

Signed this the 26th day of May, 1950. (S) (U)

Klaus Fuchs

Witnesses:

Hugh H. Clegg
Hugh H. Clegg, Assistant Director
Federal Bureau of Investigation (S) (U)

Robert J. Lamphere
Robert J. Lamphere, Special Agent
Federal Bureau of Investigation (S) (U)

William James Skardon
William James Skardon, Officer
Security Service, United Kingdom (S) (U)

Bracketed info
 under heading "Title
 or other ident" will no
 longer be classified per DOE
 letter 5/15/84.

SR6 BJA/RBG
 #241,073 5/23/84

Title or Other Identification

Effect of Packing on Critical Radius of
 the Sphere; 4/10/42, B 48

Effect of Evaporation on Free Surface
 Velocities; 10/30/45 LA 441

~~_____~~
 b3 - DOE

Effect of a Scattering Container on
 the Critical Radius and Time
 Constant; EM 70

The Critical Radius and the Time
 Constant of a Sphere Imbedded in a
 Spherical Scattering Container; EM 144

Critical Radiation and Time Constants
 for Finite Reflector 7/24/42 B 81

Comparison of the Variation Theory and
 End Point Results for the Tapered
 Spheres; 1/18/45, LA 205

The "T" Division progress reports
 for 1944, LAMS 177, 11-44, contain
 articles apparently by Fuchs, Podger,
 and Stark entitled "Two Dimensional
 Problem" the first sentence of which
 reads - "....Pressure exerted by the
 detonation in Comp. B on a steel liner has
 been calculated for various angles of
 incidence of the detonation wave."

Copy Furnished
 by Dr. Fuchs to
 Raymond
 Indicated by
 "Yes"; or "No,"
 or Excerpted
 Information
 Furnished to
 Raymond
 Indicated by
 "Excerpt"

(meaning not delivered)

Probable
 Place
 Where
 Delivered

Initials

Yes

London (1)

K.F.

Excerpt from
 memory

London (2)

K.F.

Yes

London (1)

K.F.

Yes

London (1)

K.F.

Yes (?)

Danby

K.F.

?

No.

No.

U

Klaus Fuchs

26th May 1950

SECRET

~~SECRET~~

Wormwood Scrubs Prison
London, England

List of some of the reports prepared by EMIL JULIUS KLAUS FUCHS personally or in collaboration with other scientists while working under the over-all control of the Manhattan Engineer District, and which reports were of a confidential and official classified character:

Copy Furnished by Dr. Fuchs to Raymond Indicated by "Yes"; or "No," (meaning not delivered); or Excerpted Information Furnished to Raymond Indicated by "Excerpt"

Probable Place Where Delivered Initials

Title of Report	Rpt. No.	Classification	Date	Copy Furnished by Dr. Fuchs to Raymond Indicated by "Yes"; or "No," (meaning not delivered); or Excerpted Information Furnished to Raymond Indicated by "Excerpt"	Probable Place Where Delivered	Initials
Shock Attenuation in Rods	LAMS-402	Secret	7-26-46	No.		U (S)
Efficiency for Very Slow Assembly	LA-596	Secret	8-2-46	No.		U (S)
Effect of Evaporation of Free-Surface Velocities	LA-441	Secret	10-20-45	Excerpt from memory	London	U (S) K.F.
Initiator Theory, III. Jet Formation by the Collision of Two Surfaces	LA-325	Secret	7-11-45	No.		U (S)
Penetration by Jets Produced by Cavity Charges	LA-328	Secret	7-14-45	No.		U (S)
[Redacted]		Secret	6-1-45	No.		U (S)

Bracketed info is no longer classified per DOE letter 5/15/84. SP-6 BJA/RB6 5/23/84 241,093

b3 - DOE

CLASS BY SP-1 GSK/RB6 G-1
DATE OF REVIEW 225,667 10/13/82

241,093
Classified by SP-1 GSK/RB6

Declassify on: OADR
3092007/423/36/84

ALL INFORMATION CONTAINED HEREIN IS UNCLASSIFIED EXCEPT WHERE SHOWN OTHERWISE

Sub Enclosure #3

~~SECRET~~

1st set of brackets under the heading title of report are no longer classified
DOE letter 5/15/84.
SP-6 BJA/RB6 5/23/84
#241,073

Copy Furnished by Dr. Fuchs to Raymond Indicated by "Yes"; or "No", (meaning not delivered); or Excerpted Information Furnished to Raymond Indicated by "Excerpt"

Probable Place Where Delivered Initials

Title of Report	Rpt. No.	Classification	Date	Copy Furnished by Dr. Fuchs to Raymond Indicated by "Yes"; or "No", (meaning not delivered); or Excerpted Information Furnished to Raymond Indicated by "Excerpt"	Probable Place Where Delivered	Initials
Rarefaction Wave from a Plan Free Surface in an Explosive	LA-227	Secret	2-16-45	No.		U (A)
[REDACTED]		Secret	2-6-45	Excerpt from memory	Boston	U (K.F.)
Formation of Jets in Plane Slabs	LA-195	Secret	12-27-44	Excerpt from memory	Boston	U (K.F.)

Title or Other Identification (S) U

[REDACTED]	b1	Probably Yes.	Banbury	K.F.	U (S)
[REDACTED]	b1	No.			U (S)
[REDACTED]	b1 (S)	Probably Yes.	Banbury	K.F.	U (S)
[REDACTED]	b1	Excerpt	Banbury	K.F.	U (S)
[REDACTED]	b3-DOE	No.			U (S)

Copy furnished by Dr. Fuchs to Raymond Indicated by "Yes"; or "No," (meaning not delivered) or Excerpted Information Furnished to Raymond Indicated by "Excerpt"

Title or Other Identification

Probable Place Where Delivered

Initials

[REDACTED]	Yes	Banbury	U(✓) K.F.
[REDACTED]	Yes	Banbury	U(✓) K.F.
[REDACTED]	?	New York	U(✓) K.F.
[REDACTED]	Yes	New York	U(✓) K.F.
[REDACTED]	Yes	New York	U(✓) K.F.
[REDACTED]	Yes	New York	U(✓) K.F.
[REDACTED]	Yes	New York	U(✓) K.F.
[REDACTED]	Yes	New York	U(✓) K.F.

b1

Copy Furnished by Dr. Fuchs to Raymond Indicated by "Yes"; or "No," (meaning not delivered) or Excerpted Information Furnished to Raymond Indicated by "Excerpt"

Title or Other Identification	Indicated by "Excerpt"	Probable Place Where Delivered	Initials
The Stability of the Rabbitt Machine; 4/10/42, B 106	?	Banbury	K.F.
Shock Hydronamics; 10/28/44, LA 165	No.		
Shock Attenuation in rods; 7/26/44, LAMS 402	No.		u (S)
Separation of Isotopes; 4/10/42; B 49	Can't identify MS 12A yes	Banbury or London	K.F.
Rarefaction Wave from a Plane Free Surface in an Explosion; 3/16/45	No.		
Perturbation Theory in One Group Neutron Problems; 1/3/49, HM 1482	No.		
Penetration by Jets Produced by Cavity Charges; 7/14/45, LA 328	No.		
Oblique Detonation Waves; LAMD 87	No.		u (S)
Notes on the Expansion of U Sphere Inclosed in a Container; HM 145	Yes	Banbury or London	K.F.
Measurement of Nuclear Bomb Efficiency by Observation of the Ball of Fire at early stage; 2/20/46, LA 516	Excerpts from memory	London	K.F.
Los Alamos Tech Series Vol. 7, Part III, Chaps. 11-14, Blast Wave; 8/13/47, LA 1022	No.		
Los Alamos Tech Series Vol. 7, Part I, Blast Wave; LA 1020	No.		
Los Alamos Tech Series Vol. 7, Part IV, Blast Wave; LA 1023	No.		

Brackets under title or u (S)
 - 4 other edent. are no longer classified per DOE letter 5/23/84 date 5/15/84. 306 BJA/RBB

Bracketed info under the heading "Site or other ident." are no longer classified under DOE letter 5/15/84 sp-6 BJA/RBG 5/23/84 #241,073

Copy Furnished by Dr. Fuchs to Raymond, Indicated by "Yes"; or "No," (meaning not delivered); or Excerpted Information Furnished to Raymond Indicated by "Excerpt"

Probable Place Where Delivered Initials

Title or Other Identification

Los Alamos Tech Series Vol. 7, Part II, Blast Wave; LA 1021

No.

[Redacted]

Excerpt from newspaper Boston K.F. U.S.

Isotope Separation with Complex Molecules; 4/10/42, B 39

Yes London or Banbury K.F. U.S.

Initiator Theory III Jet Formation by the Collision of Two Surfaces; 7/11/45, LA 325

No.

Gland Problems; 6/29/42, B 73

Excerpts Banbury K.F. U.S.

Formation of Jets in Plane Slabs; 12/27/44, LA 195

Excerpts from newspaper Boston K.F. U.S.

Fluctuations in a Diffusion Separation Plant; 11/20/42, B 105 MS-71

Probably first part only Banbury K.F. U.S.

[Redacted]

Yes(?) Banbury or London K.F. U.S.

Equilibrium Time in a Separation Plant; 4/42, MA 47 A

no identifiable

The Equation of State of Air at High Temperatures; 9/18/43, EM 83

No.

Efficiency for Very Slow Assembly; 8/2/46, LA 596

No.

Effect of Separation of Isotopes of Compound Molecules; MS 44 A

Yes Banbury or London K.F. U.S.

XXXXXX
XXXXXX
XXXXXX

FEDERAL BUREAU OF INVESTIGATION
FOIPA DELETED PAGE INFORMATION SHEET

1 Page(s) withheld entirely at this location in the file. One or more of the following statements, where indicated, explain this deletion.

- Deleted under exemption(s) b1 with no segregable material available for release to you.
- Information pertained only to a third party with no reference to you or the subject of your request.
- Information pertained only to a third party. Your name is listed in the title only.
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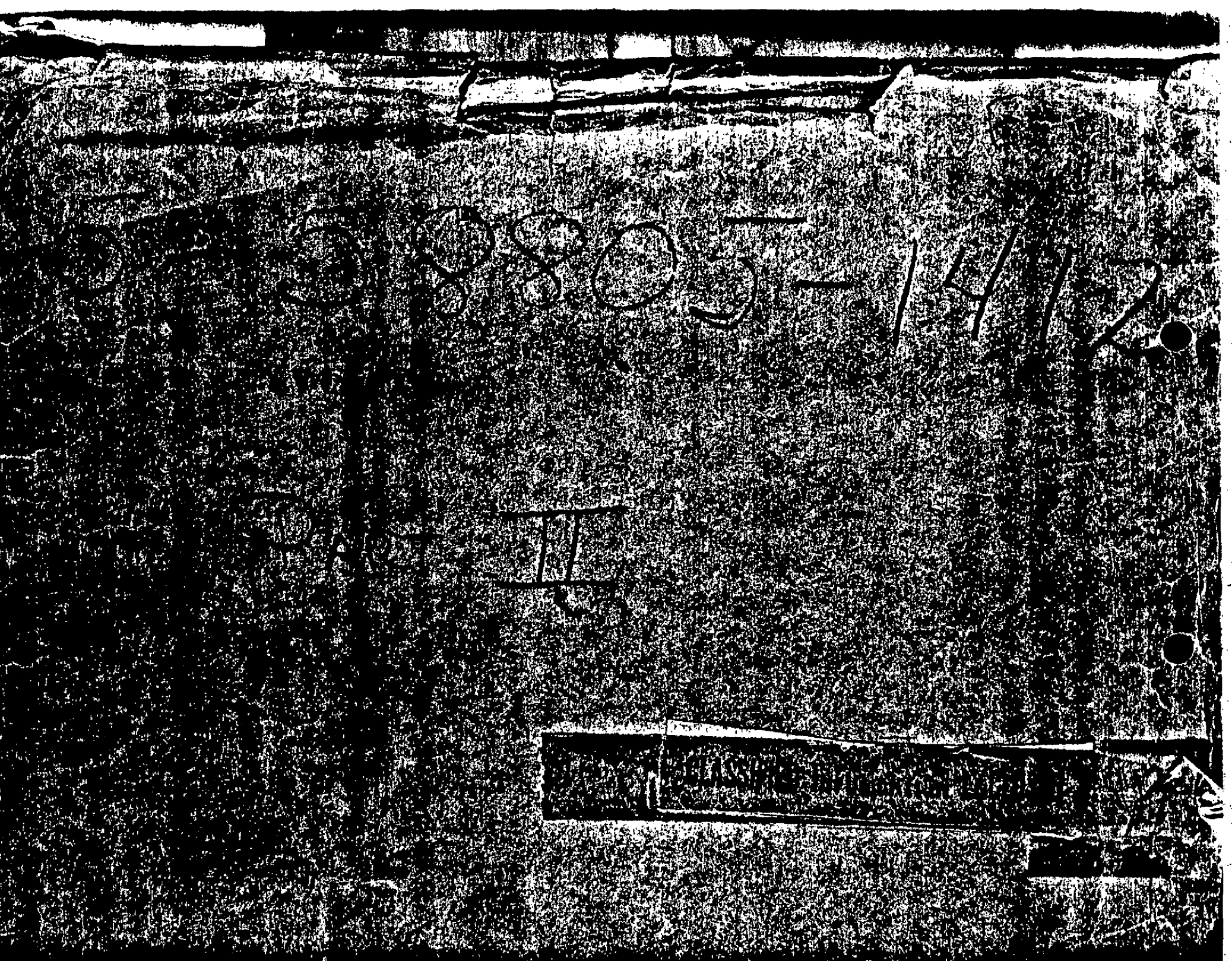
_____ Page(s) withheld for the following reason(s):

For your information: _____

The following number is to be used for reference regarding these pages:
65-58805-1412 enc. PT1

XXXXXX
XXXXXX
XXXXXX

XXXXXXXXXXXXXXXXXXXXX
X DELETED PAGE(S) X
X NO DUPLICATION FEE X
X FOR THIS PAGE X
XXXXXXXXXXXXXXXXXXXXX



sub enclosure #43

SECRET

Adv. Sr. Wafed be - her due
in Feb. Rational - sketch
By Xmos. - why cancelled Xmos trip
by lects -

DECLASSIFIED BY 9145 JFE/AG/RA/RS
ON 1/23/86

265,728

The case - to name - Beloni
would remember - Don't
remember - Don't say no -

CLASS. BY 23/51

DATE OF REVIEW

10/13/82

Re Polt. #1

getty word to

Sentia (7th) 17.1944 - Boy

account to A Home - told Xtel

Some find would call

findings Possions -

'Jingo from Karl' - Possions

CLASS. & EXT. BY SP-1/TAK/TKR

REASON - FCIM 11, 1-2.4.2

DATE OF REVIEW 2/25/90

SECRET

1 2 3 4 5 6 7 8 9 10
Kris said - letter that
Tropi has called L.A.
SECRET

Call at Cambridge - Oabwin

ask Sr. Gesschie then
7 upstairs - talked to G. in
upstairs room in which 7. Dept.
Sr. did cometh & chocolate -
length talk = 10 mins -
Probably in foreground - not very
early - Don't say for lunch

Toed where was - Arr to
meet age in Boston - night
home arr for S.F. meetg. Thiers
Gave him green map of S.F.
Time & Date. Left date to him -
Don't know time. (*)
Post map to make arr. J (*)

SECRET

~~SECRET~~

10 - Supervisors -

Beirle -

Acres - Hoodman

Kearson -

L.A.

Beirle -

Beche -

Oppenheimer

Placzek, Tetlow

Contracts

[Handwritten initials]

~~SECRET~~

Poss gone from Brits here
Sure he did - ~~SECRET~~

It might include some very interesting
ones or written.

Who - America:

What Americans:

[No one else - USA.
or Prog - USA.]

Harper or just - articles or in
gate - Prospect -

Red Book - Hand - Copy Tribune -
He to spare 1st -

next entry - P/S - in London
Mags Had - Good qm -

~~SECRET~~

SECRET

He must have known around
with a.e. or would have
asked: In conversation
months in a.e. + later in
Bomb. - He must have
known or would have
understood - This at 1st meeting

Comparative strength of bomb.
mentioned
at 1st or subsequent
meeting

W.D.

~~SECRET~~

65-58805-1412

3 3 3 3 3 3 3 3 3 3 3 3 3
1st meeting - [initials] A.M.V.

Asked hi was met hi -
Indis he had been expecty hi.
As this 1st time come to place Newark
(low 1st) He had been there but
asked name - gave correct -
Didn't return favor - Seemed to
know it before - U.S.

Expressed gladness for
such important assignment.
Don't know whether he indicated
or was expecty - U.S.

Asked about Bro's address
stepping at Topt Hotel - U.S.

Specific - more sure
you are not facious - U.S.

He took attitude of inferior
Believe read stat or atomic energy - U.S.

SECRET

couldn't have been added by [unclear]
later

~~SECRET~~

1st name given by

Person ask how many
people - British man
couldn't tell any details
work in Bq. of Brit
& People at Kallby
Salem, Oregon

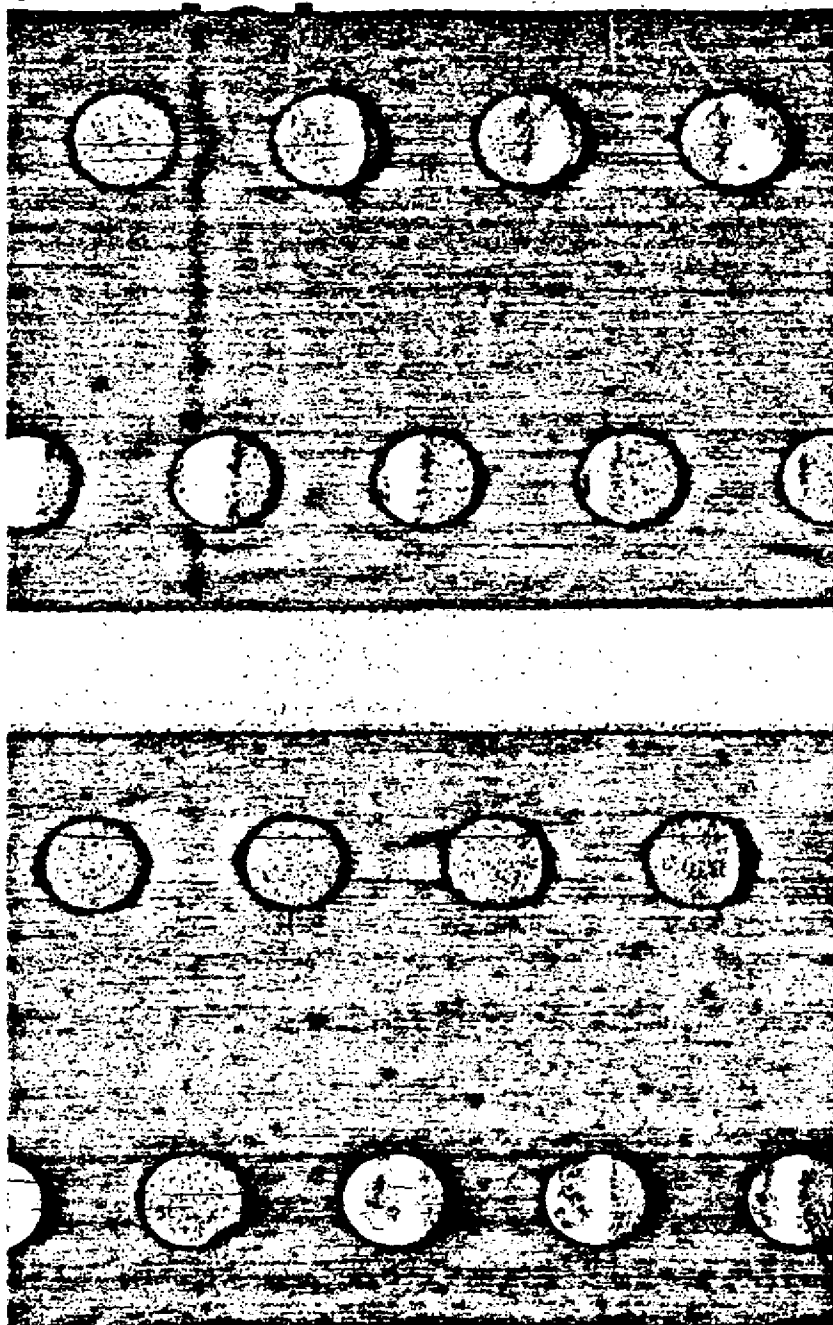
When went over large gate, [unclear]
not as to [unclear]. Know other [unclear]
places don't know what trees

Name Queens seems familiar
Eastern Parkway seems familiar

no party contact
no sup. contact except Raymond
no inf. contact

~~SECRET~~

65-58805-1412,



Pkg. Packed up - ~~SECRET~~

As: Paline yellow ruled
long - all long had -
Some - 10-30 1/2 pages -
- long had -

In chas w. cad pocket
Preferred Pocket
looked at mag ^{Paline} -
direction of airport.

Voysie reaction & elevated
Good pass - really (check) -
Knew he better -
7 yrs addum

after last meeting arr. for
San Fran. =
All notes kept by
Kurt Polka

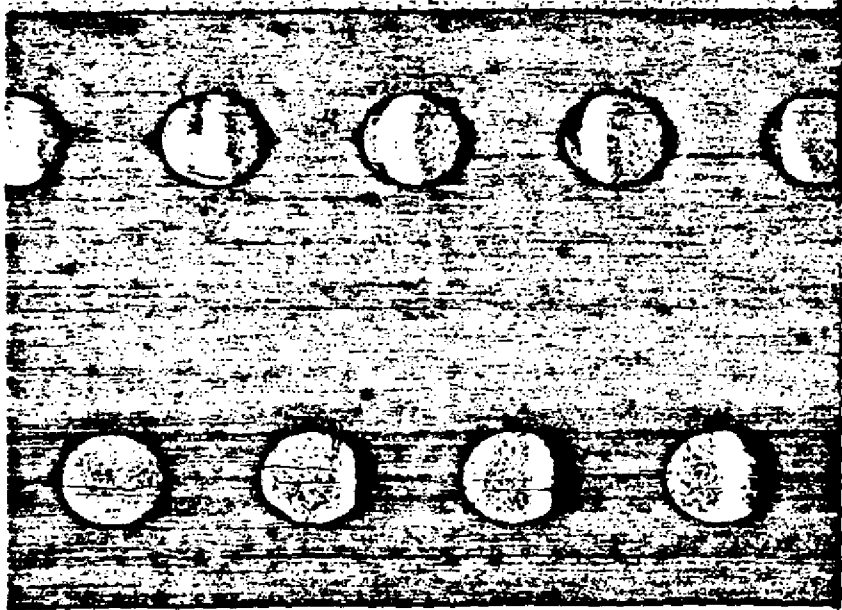
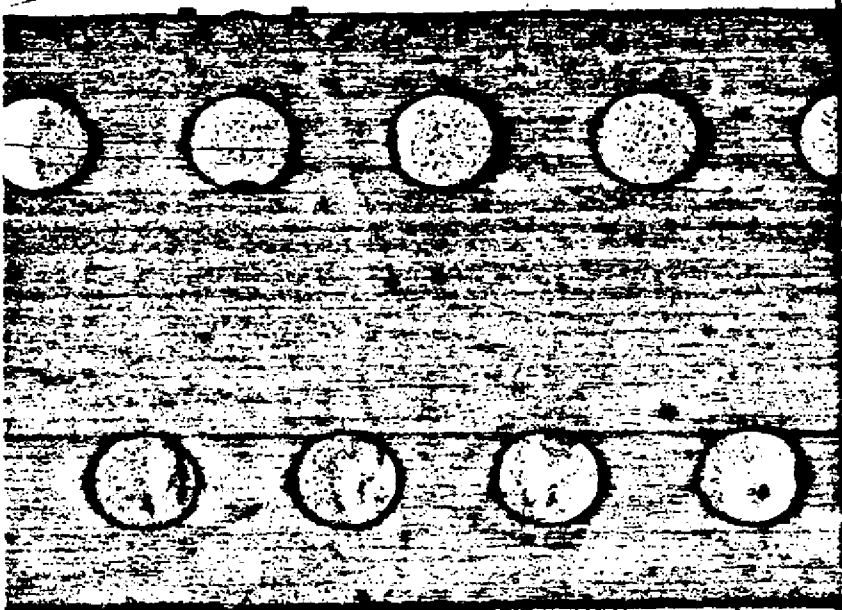
~~SECRET~~

65-58805-1412

John Denny

Other info - 11/2/68
Contacted - all a -
no more info.

JAM



65-58805-1412 9

SECRET

- Sister House Powder
met - Sr's Home. Sr & RH
Knew Sec. Has some Contact
- Univ.

Doit Know W-7. Br-1a
Isaac Kaepin -
Walt - Int. sup. got
Dig - Tob. from Sister by
Parcel - Int by Post. (F) (U)

Camp. N releases - under
certain conditions - anything
Scutts. Knows some
people - say might like
to effect release - fairly certain
must 1st - Embry & 1st
Fry, Berne too - Edinburgh
Part circles may have been
interested in effect release
don't know (F) (U)

SECRET

[Saw - late John.] ~~SECRET~~ not seen

~~SECRET~~

1. NYC. late Feb. early Mar 44 - ~~Handball~~ ~~by some from bank~~
G. W. Raymond
Cab + restaurant 32 Ave in 50th sta area
2. possible.

2. Saw was late (3 or 4) at upper Manhattan
with Mrs. H. - Artist mission
4 planned meetings - (1st) mission +
Shipping + 67 at up 3rd MD. Party on top
About 2 ally Comp. ~~collected~~

3. Bronx - Bklyn - Manhattan - Queens
1st Apr to June + July, at Jack's place -

4. Miss contact in front of mobile near
Eastern Pkwy, Bklyn.

5. Saw would get more, must attend
7. Saw Suite address 4th -

6. Gold left int. with name + pho no. - Manhattan
meet J (Grove) Kaplan? X

Early 1945 John Test Gold to make contact with Jack
the agent + Conway + Sons +
get with go + Jones 1940 - Mrs. H. not present

June 1945 G. + Albin 8574, Pas.
met in Sat. Pm. - friends in
arr. next night - Sept. 4th

Sept 1945 - 7 saw present at large scale trial
nuclear fission at Alameda
to believe that or new trial bond copy

What was 1945

? maybe John left 10-1946

1st or 2nd my mil. 7 saw on Sep. 7. Footage simplified
arranged into 7 saws produced by nuclear fission
- for 7 weapons

7th saw would - anti ft. cigarette
Possibly say some operational. for isotope
papers. - Alaga. late one large

6. Call on Kowitz + Raymond. 4th 30th Xmas
left int. name of J. Kaplan

~~SECRET~~

U.S.

Jan 1945 - Hamilton Co. shot meeting
Sgt. not present - 8 met - SF in 6/4

7.5.7 meetings at which info
passed at least 2 nuclear ^{list to diary}

SF meet 6/4 - Sat afternoon

met SF - Jan info
7 present at initial large
scale nuclear mission
at Alamogordo
Palin 7 present on nearby
at truck Bomb.

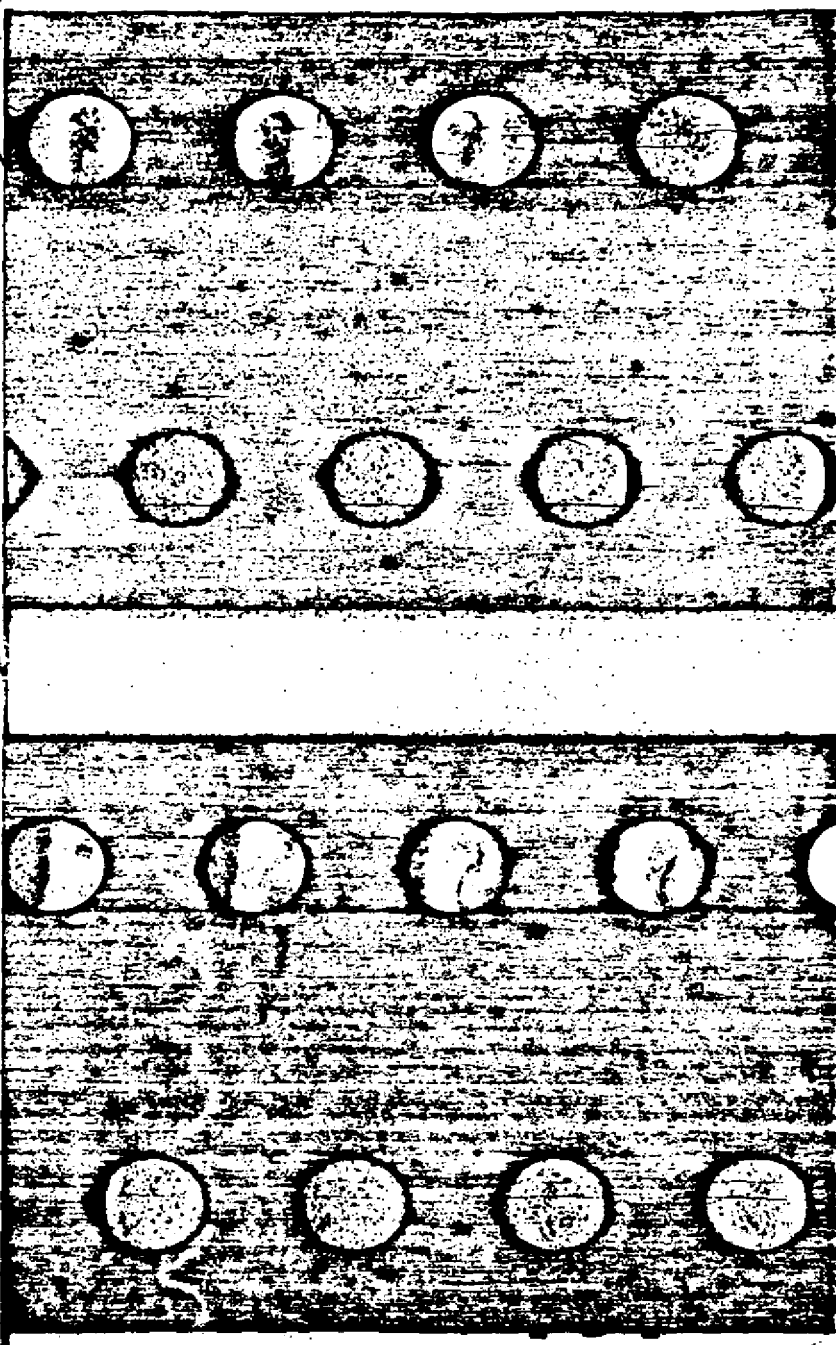
7 sig. by 5000
by call on 20 telephone
to 20
aligned to counter - Cambridge
Xmas 1945

1st or 2nd NY meeting 7 Feb. 4
British air working on separate
7 isotopes
3 simplified essential utility
1 energy produced by No. 2200 gin
- 1/2 ton of weight
with 70 ft apart

(B)

11

SECRET



Let's try for 1946

Out of Editor's

no # for catalog for work =

USA

~~SECRET~~

(F)U

Quasi - by accepted - Aug
money: 47 or 48 - no grants
gifts. Accepted 21 or 22 - Eng

Spain - time

nothing & side except chocolates

Gifts.

"Reasonably Sure" H.G. in
man.

trip to G.P. (July 1947)
pay or disbursement. Proj.
Clotter Palace

only to see the declassified
material. Saw the Britation

Zimm

~~SECRET~~

12

(F)U

~~SECRET~~

Who visited ... west & see Dr. Bethe
Cornell-Ithaca-N.Y. New-
mexico path by Penn. Route Rail
Purpose of visit - for cancer bone
head of a dog at L.A. - just
about to say goodbye - stayed
1 afternoon. Si seldom went
out of house.

SECRET: Visited July 1947
conducted lots of experiments -
Went for 1/2 another - Martini
Ductect saw another occur
Some one suggested see certain
experiments - some at Gr. DeLongue
not at Argonne = one few admitted
DeLongue -

During our days of Gr
July 1947 - went to Gr DeLongue
list

~~SECRET~~

U.S.

SECRET
Jus Km ~~no~~ ^{part} 4-27 pm
East side Bridge Contad - Leuchem
at Restaurant. Don't know which
one. (H)U

News came back for
mor on any status papers

1st Cub's + Boston
Meeting at Sister Home - No oral
info. He may have sought
info. but know - He cannot identify
Bro meeting Boston -

Report: most of what
was known re Explosion -
and fact that he, ^{as to} ~~was~~ type for
of comparison was considered
but not entirely decided on.

Difficulties of Point detecting
Furnish specifics on that
Writing delivered was concerned

SECRET 14

primarily with **SECRET**
2 or 3 pages - Matter so

Implicit word understood
not to contact with **SECRET**
Main Part was

(principle) explosion
either the or next line
the other dimension of H.E.

Sequence of times exposure
thought language, long hand
in English -

June 1945 at L.A. (57)
sig -

more re formation not yet
finished -

IBM **SECRET** calculations - methods
& calculating - results of efficiency
calculations - (Hiroshima)

No possible **SECRET** $\frac{1}{15}$ small to 50%
U

b1

SECRET

To show estimates of ^{efficiency} ~~efficiency~~ ^{max} ~~max~~

Had prepared material -
Write report - ~~on some~~ ~~more~~
pages -

did consult ^{Office} ~~Office~~ ^{Security} ~~Security
to prepare - in long hand~~

How much do ^{we} ~~we~~ ^{think} ~~think~~ ^{speeded} ~~speeded ^{up} ~~up~~
Soviets work - Helped speed up
by several years ^{Process could start} ~~Process could start~~
^{Explosive development} ~~Explosive development~~~~

How much estimate ^{How good are R} ~~How good are R~~
Scientists, & How far advanced.

Continue material avail. Ready
for explosion - If had gone
down & date ^{the} ~~the~~ ^{USA} ~~USA~~ ^{on arrival} ~~on arrival~~
would have only speeded up.

Accum. projects ^{at} ~~at~~ ^{base} ~~base~~ ^{slightly} ~~slightly
By Am.~~

SECRET

UK

SECRET
No speed up - producing
platinum. pellets -
got some knowledge during last
period in L.A. re production
of Plutonium - process on

If they did not know of
any other source - could not
know the Plutonium process -

Knew ^{quite} much about
Gas turbine for Oak Ridge
Knew how they re
Electro magnetic forces -

Knew O re charge of design
gas or em.

Knew know about about
Gas need of making a compact
Machine for gas

SECRET

LEQ. JT.

Knowledge re for offering
said only at

at L.A. work concerned with
figuring out where things might
be going -

later on ^{was} on Blast waves -
tail end Blast wave -

Only as far as intended to
interp. of experimental results did
he know of effect on human life -
In June all the waves he test at

Trinity - Intent to use bomb in
Japan -

Knew work on the gun was
going on & knew little about it.

Urban Brink - at L.A. was an
Appendix - not to be published

SECRET

Handwritten initials and scribbles on the right margin.

Handwritten initials on the right margin.

Handwritten initials on the right margin.

Handwritten initials on the right margin.

SECRET

Know of your concerns with
you at I.A.

Sept
Nov. 1944 - Passed
Mainly results
at Trinity & if ref'd kept up
with them.

SA
N

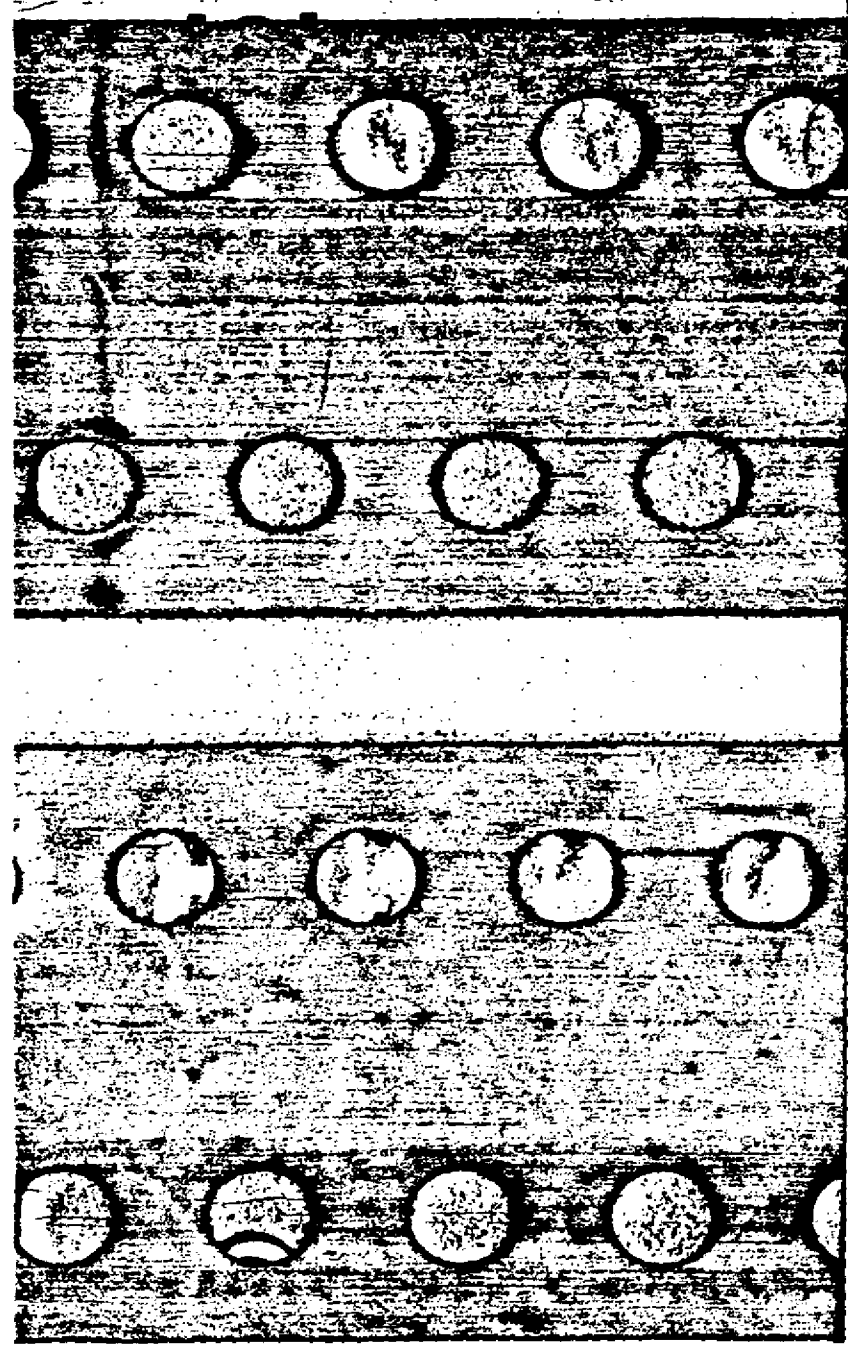
Same kind of paper - abt 6 pages -
Wrote some - direct letter LA
& Santa Fe - turned over to
control - at S.F. Had engl -
lead. Did Dord - chie reports
on results 2 pp 5 pl. Rpt of V
Penny came later -

Work on initiator

Rate of probets. - Didnt know then.
Malye bin something as discussed

Cost & campus of chae

SECRET



Some ^{of} ~~the~~ ^{meeting} ~~of~~ ^{critical} ~~size~~. SECRET

Would have been important
only if wanted to know how many
bombs for net of production

Meeting in England: app. Return July 1946
to ~~the~~ ^{the} ~~board~~ ^{or} ~~of~~ ^{the} ~~reg~~ - woman
Johna Kapstich - She arr for
Jilly - took with a m
~~at~~ ^{at} ~~the~~ ^{the} ~~board~~ ^{board} ~~out~~ ^{out} ~~on~~ ^{on} ~~1946~~ ¹⁹⁴⁶
until early '49 -

about 6 copies -
Reddington - Riley on

Memorandum
Protecting Quiz
Work on calculate or tests
for Japan = finish?
not accepts figure -

SECRET

(S) LC

SECRET

Didn't think would become
unusual - became beliefs
kept entirely separate -

Off west thru Canada.
might have been discovered.

Taking same route as any

Except for Royal Can. of Canada
parade at Ottawa - the
impact on Cardin's closure
came ~~first~~ ^{first} seek another contact -

Armed + 8 t. - trace = by Sov.
last = 19 =

Contact John to get - local
unit K - trace or program
off get in touch with him.

Some material - last night
at last & one brief few minutes
later

21 SECRET

U

U

U

12 12

SECRET

Ad. pr. o. & do with G. to U.S.
Chosen - Mr. Wilson became Quincy
no & Peirce: Wholes - how -

Dec. 1943.

Meeting - Baumgardner - Fred George
19. She gave details how & meet
were to meet on St. Louis - at day
at certain time - if not on that
wait w. or no.

Manning -
Recognition = Pr. glans on a
answers - how =

To do something else -
"paper - words" vice
Can you tell me how to go to
G.C. Station - Contact to start
conversion.

SECRET
22

Reply "unusual" - not entirely
reproach

(K) U
(K) U
(K) U
(K) U

~~SECRET~~

All Contact procedures indicated
to who

Case used ERM process

Dev's Eff - Formula -
Determination of Parts - function -
Eng. Mkt.

Which is concerned -

? on Mechan of Assembly -

? who at L.A. -

(S) 11

~~SECRET~~

meeting, which meet
Parl. are distance - ~~SECRET~~
No phys. recall of att. that
Meeting in Boston
No pictures rec. of
Security papers
L.A. finds on security th
any other place had worked - This
told G. about that.

TSU

~~SECRET~~

24

65-58805-1412

~~SECRET~~

MSN-18 - Don't remember
the Rpt

Problem discussed - don't
know paper or name

2nd head of the K at task
of at all - Prior to 1950
LA

2 years } Occides Curio
prev in } England -
& trans } Hert

Q-220
d. Kilo per mo
1 Kilo } (K) U

SECRET

Was roughly what was in
the ~~French~~ lectures of
destiny of Super Harbor
Info

Pico Care takes
mistake as takes when
departed (if you might in ad)
Info

Don't really call anyone
E. Asia being sent to Deutsch
Might have gone to Cent Pic
for "Museum Meet"
Info

1111111111
Imp + ... to discuss, ~~SECRET~~ Imp

Refered to who will be
between 7/14 & departure. The
two K from our night cat.

Pick up hot & deliver to
someone else's apt.

Working Asset List - Aug 7/8

Special - Contingency

del. serv. wa. sig - (returned)
Ox report - probably ^{asked} _{very} good
but did not know of any.

Officers
All Rpt. Air/Small eqpt.
70 min into Success -
Don't raise wh or rei.

Best 5,7

~~SECRET~~

Base to med/Pres Sta.

(S) u

Newman defy st.

not allowed -

~~Work line between~~

Bishops to 08 Road

(S) u

1 1 1 1 1 1 1 1 1
 Resor & Suspect ~~Wende~~
 1. to Constantine Laferanas
 3. Only contact Halperin Recept of Box
 Any Signif to "Physic Resident" ~~Pub~~
 Code Paper
 Note of Bond ~~it's about~~
 GCU

4. Why send home ^{month end by by there}
 - 1 tel Pulliaton -
 - 2 Pops - ^{Reduct. receive}
 - 3 Pamphlets -
 Note to Halperin - ^{Possible - Arch}

6. Know Vossily M. Rogov?
 GCU
 GCU
 U

8. Info. from Release as to what
wanted:

SECRET

few?

(X)
u

9. German rec. contain info. re to photo
D. J. Gantz - surveillance by R.S.H.A.

Head of Secret Corps -
Dishes of Nazi -

(X)
u

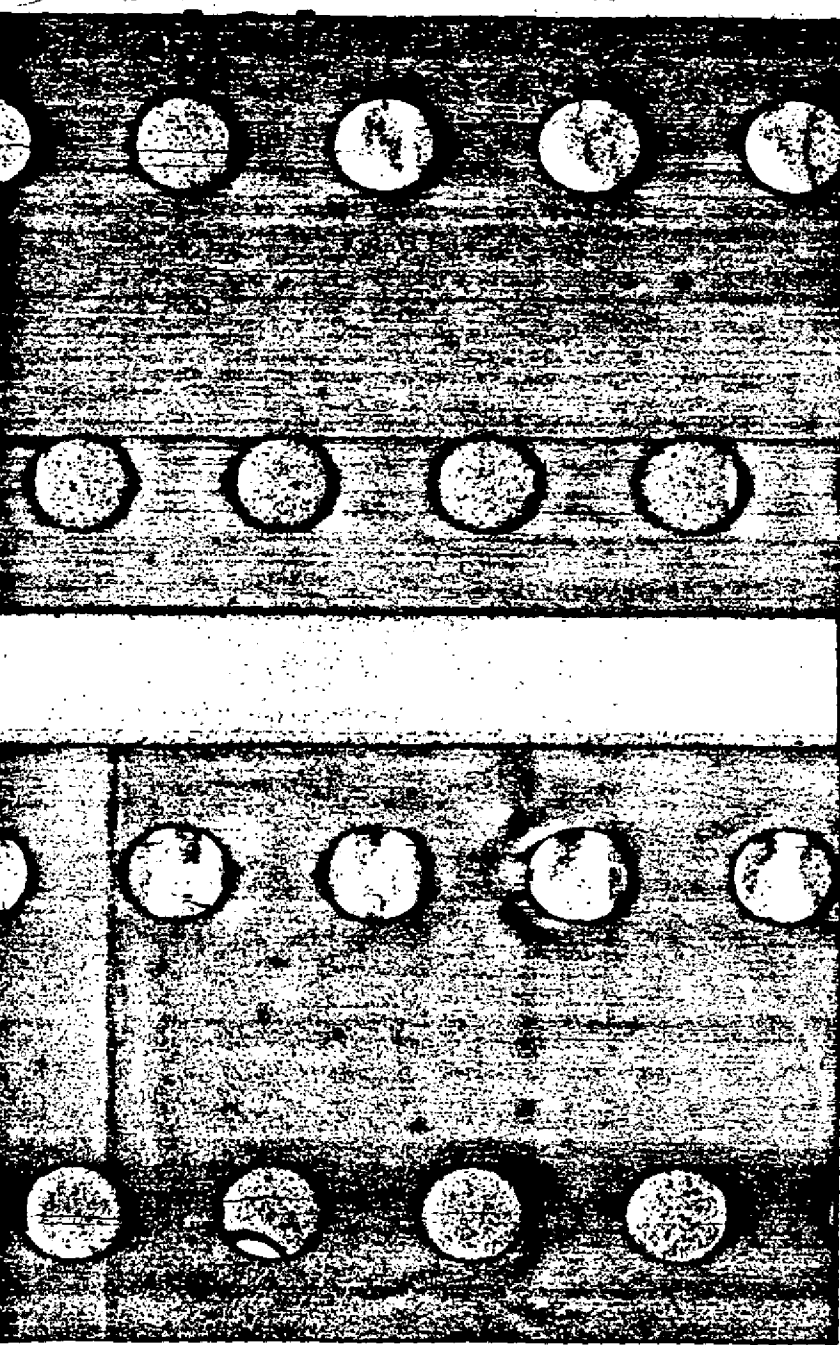
SECRET

11.
Info. to Russia
A In England 1st

1. Basic theory & math. treatment of Gerson-Diffusion. for separation uranium isotopes
2. Math methods of derivation. Critical size & eff. of a bomb.
3. Copies all rept. at Bghm Univ. Spare Carbon

TK

~~SECRET~~

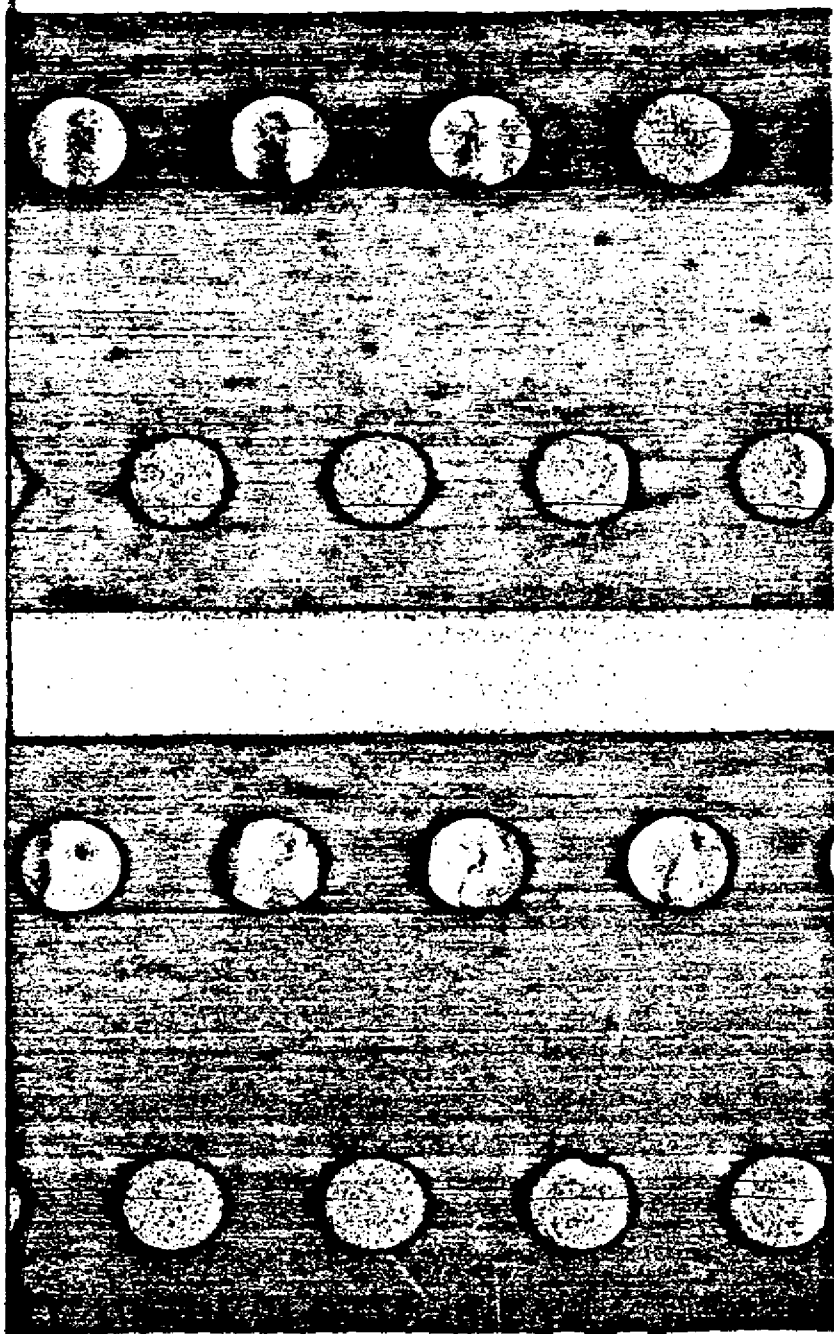


0 0 0 0 0 0 0 0 0 0
[C. While at Los Alamos] ~~SECRET~~ (X)U

[Daily notes -
no Rpts -
not declassified] (X)U

#1. week had 3075
Info re British Clearance
2. Phone to Sohn of Rep.
3. Later Residence -

NT



~~SECRET~~

33

1 1 1 1 1 1 1 1 1 1

~~SECRET~~

- 17 Montreal trip off L.A. 11/45
- 18 - - - - - Pros 4/46 while
enroute to England.
- 19. Trip to U.S. 11/30/47 where stayed
who contacts
- 20. Details trip to elementary ✓ -
- 21 - - - - - Ithaca ✓ -
- 22 - - - - - Rochester -
- 23. Previous contact with Hans Parthe Schen
24 - - - - - Capt Flynn - Ithaca
- 25 ✓ - - - - - Robt Maslow - Rochester
- 26. Purpose visit to Schenectady 11/18-19/47
27 ✓ - - - - - June 46
- 28 why Kunitz & Pros & Schenectady &
left her at R.R. Station Seneca Ave. #
- 29. Between joint - 47 with Karl P. Cohen
where stayed ^{Karl P.}
why he did ^{Cohen} obtain hat - restaurant
and later it & Apt Home 111 St.
- 30. Jerome S. Kaplan
ex-ops Autory
Timofii Jakobovich Kaplan
04 W. 93rd St
Academy - 7677

34
~~SECRET~~
 (S) u

III

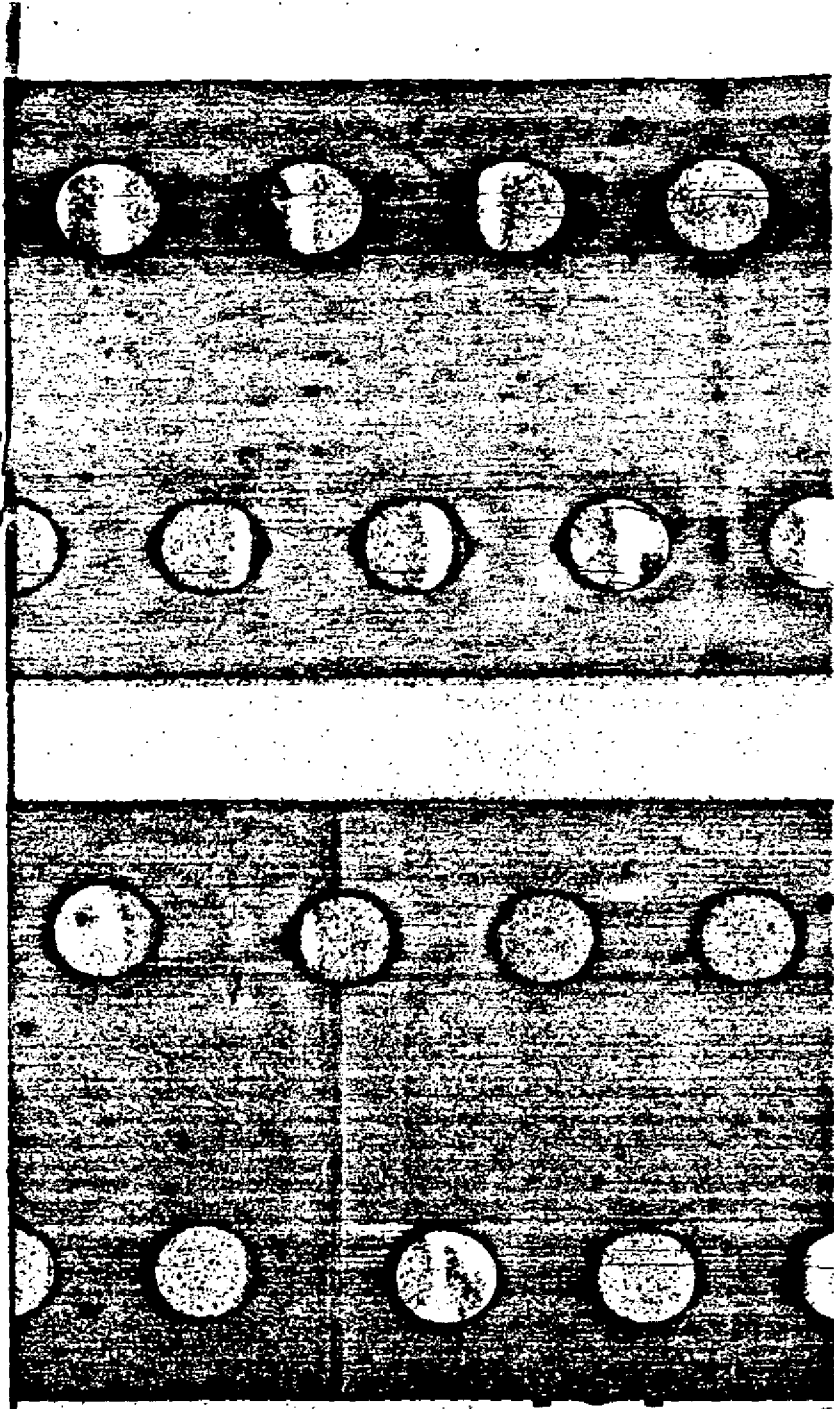
SECRET

1. Anyone see target - Confirm personal Assoc. Never saw
any one
K - possible
Don't at all
2. 1st meeting per written info in Pkgs. -
evening down St. May 1944 - Passed meeting
after met. Usually while
walking down St
rather at each
meeting
3. Next meeting at Facisconvenience late July 44
Queens. L.I. Heights. NOT as far out as
Sachson Heights.
This time happened per day pass
Mathematical Equation. no
Delivered pkg. 30 min later John fresh out
in Queens
4. Next plan for meeting. F did not show
alternate meeting was late July - or early August
in Central Park - F failed to show this
time too. I got address for John on 77th St.
pass. near Boro. Saw name Dr. Klaus Fuchs on
mail box. Only thing didn't show was Pkgs
5. John later from a German Kristie Jackson the lady
& Lloyd Hill Sister - Believe F was at the club
6. Late Oct. or early Nov. I went to Carbone -
rep. self as friend of Fuchs - went to tea. to see
but expected home for Xmas - This time left
not for Fuchs. Remember no note - not - Carbone
but until later
7. Entire meeting was in Fuchs Res. Kristie
there for min or two until F told her to leave
meeting for 10 mins. see notes
8. 9th meeting - F - 5 min. late. Saw Fuchs at
Chic. 7116 1st Ave. + El. 2nd St.
Walking on St. Don't remember his date
9. John heard of Fuchs - indirectly I called
John at phone no. left with K.
or spoke to intermedium
Timofei JAKOVLEVICH Kapkov
what is phone no. - later remembered
Don't recall phoning SECRET

SECRET

1. Detainees/Doctor - from the Rosenberg time place
+ names of 1st meet not known -
approaching date
2. First meet, not until 7/4/44 or 5/4/44
3. Who selected meet place - 11 May 56
4. 1st meet occur where - Hotel or apt
no. 128-77th St Barb. Park Playa Vista
5. How long had fair & who he knew
about this account ✓
6. When he 1st told of account to L.A. ✓
7. Wrote ^{HC} "Saw reports to" Soviet district
8. Had did he know exact addr. + Dept 57 by
Pass. ✓
9. Was there 1st meet after meeting - H. Home
if not when did he prepare materials
Map - ^{Hausler} Queens - 3rd Ave
10. Who were his superior, social or prof
contacts - NYC + L.A. ✓
11. Can he give title of any documents
MSH seen or otherwise that he furnished ✓
12. All pass. info re his recruitment +
espionage contacts prior to 8/1/44 +
Gold. ✓
13. All movements + Res - U.S. ✓
14. all details re trip Texas purpose
& those contacts ✓
15. Mexico ^{has} may have been arranged
for esp. purpose
16. Montreal trip 1/30/44 of NYC

SECRET



~~SECRET~~

a. Compression of deuterium plus Tritium
in the "primer" & beneficial results **NO**
b. Dr. von Neumann suggested the ignition
of Super bomb - by implosion process **NO**
c. VN - suggested cylindrical rather than
spherical implosion gadget - **NO**

3rd Meeting Super Court

messrs Metropolis & Tunkwich discussed
numerous calculations on various phases of the
Super. **NO**

4th Meeting Mr. Hausdorff ^{coys} discussed of compression
of various materials &
various reactions involved in the Super **NO**

5th Meeting Mr. Teller presided **NO**

Meeting Mr. Brodbery spoke - Accident
Meeting Mr. J.W. Stout - spoke - development of
Explosives.
The idea - not details

6/9/46 Darol Froman presided over meeting
of interim Council

Mr. Sampson spoke
Court Identifier

W/S

~~SECRET~~

Re # 4765/7

II

SECRET

Arrangement in England to Renew contact at
 9/18 meeting
 & Baddington or Taddington. Present
 has familiar Ring. Mary's Cross by
 & contact
 & one to carry about 5 books tied with
 cord under one arm (and 1 book in other hand)
 & copy of Life
 & they selected place as Gold not
 acquainted in England thinks so. Port
 recall

Sp. Meetings in England were to be on
 regular basis & on given dates of week
 as 3rd Sat. every month - previously
 & made future meets on given dates
 as April 18. Correct -
 1 d. detail ext:
 given if too mos - no time limit

~~SECRET~~

u

SECRET

SECRET

5/31 - 735 pm. Divers ~~SECRET~~

Area - Log filed 1/1/54
Pacy - St Michael's Cemetery
Corona - Elmhurst -
Jail area design as
Jackson Hts.

Millers - Inter Brookline &
Hatchers Intersect.
Jail Area -

u
X

38

65-58805-141 ~~SECRET~~

~~SECRET~~

1. 7. Transmitted ~~fact~~ that barrier would be of "Sintered" Nickel?
Believe so

2. Was MSN-18 transmitted title:
"Adaptation of K-25 Plant for Partial Operation on the Cascade of Cascades Principle -- Flowsheets VIII a, b, and c".

only ones which contain production figures for K-25 plant. These are used for illustration purpose in the report without specifically stating they are production figures.

Fr b. General terms extent of his disclosure re MSN-18

c. What info. furnished re Hanford plant & other phases of U.S. Production

U
(S)

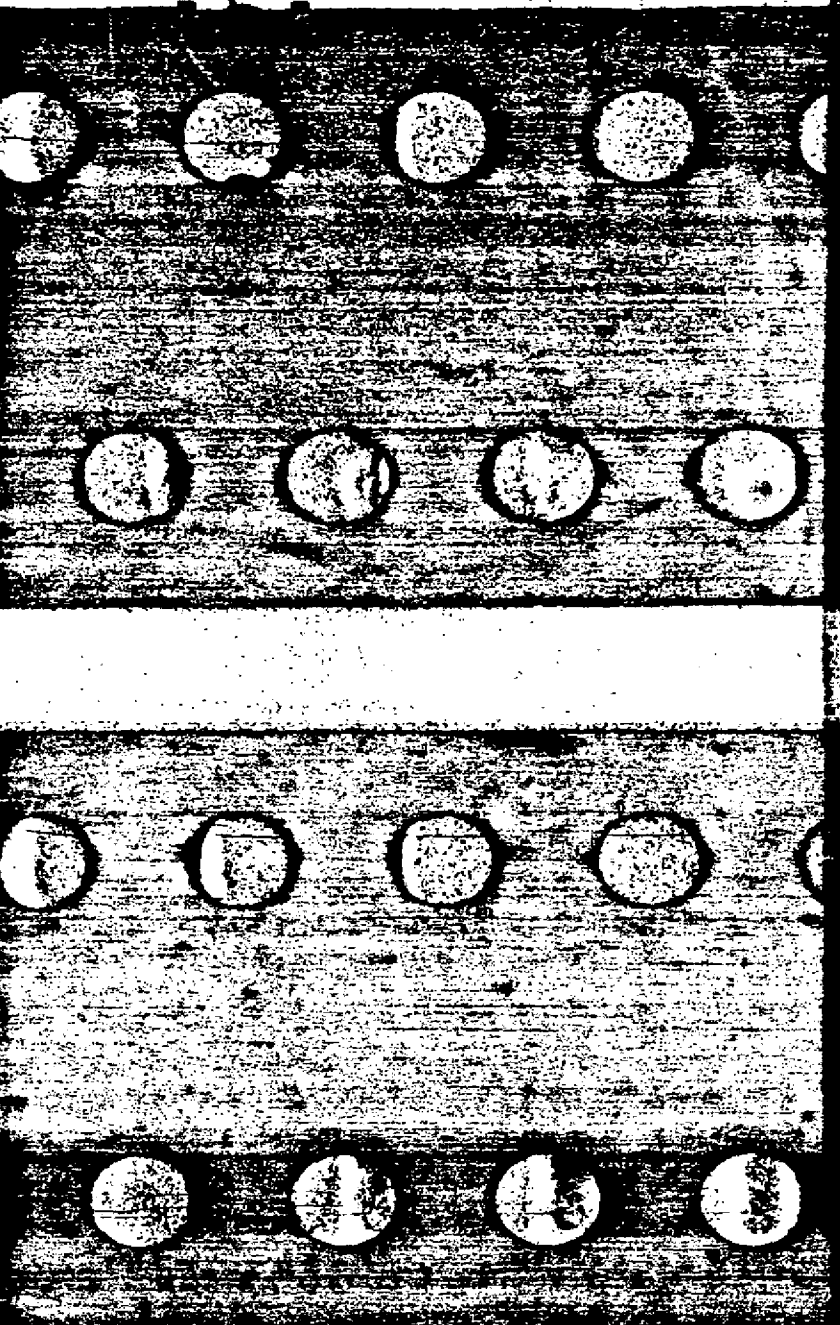
5/31 - 7:30 pm. ~~SECRET~~
Area - Log field ~~flaming~~
Bay - St Michael's Cemetery
Corona - Elmhurst -
Jail area dining as
Jackson Hqs.

William - Inter. Bond Hall of
Lathurst St Intersect.
Jail Area -

u
X

38

65-58805-141. ~~SECRET~~



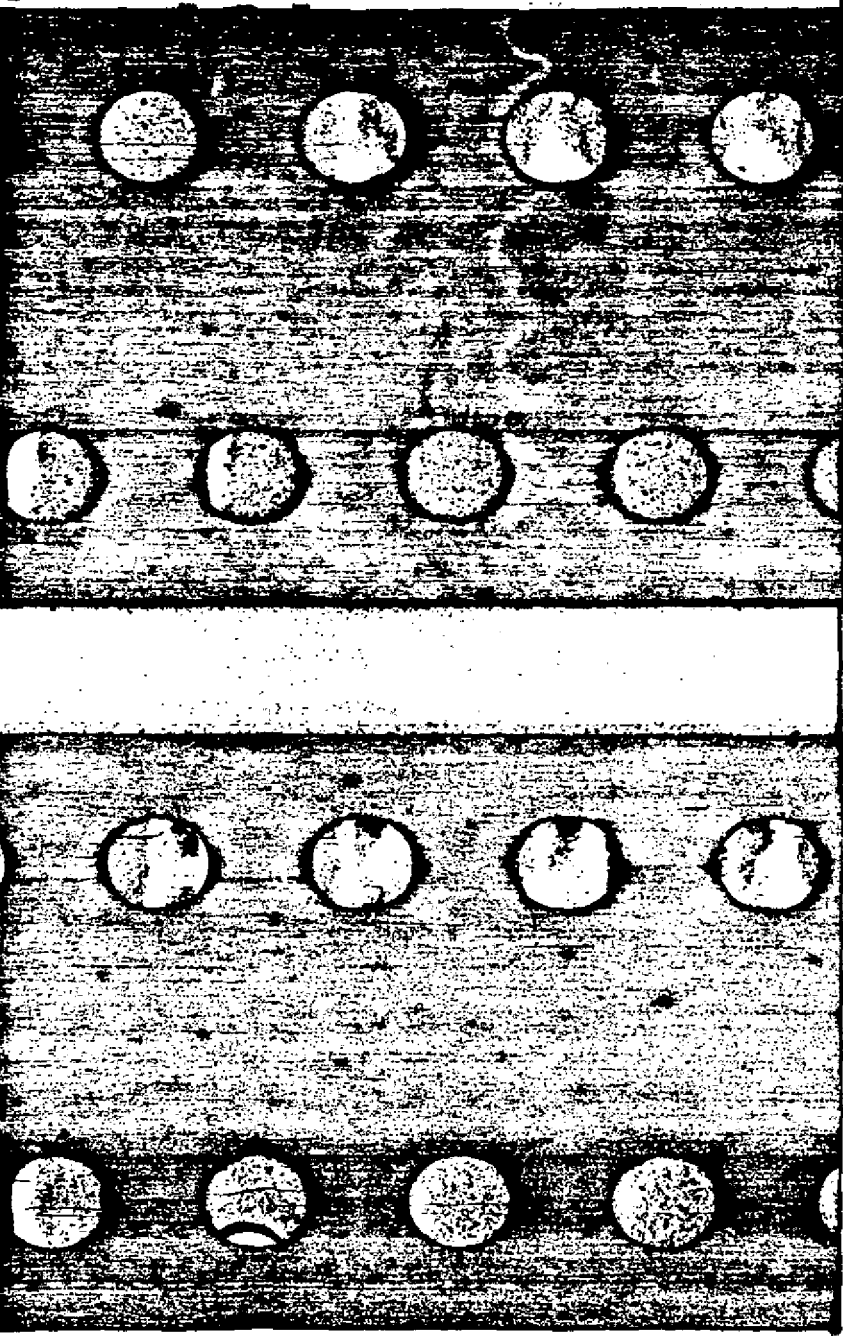
0 0 0 0 0 0 0 0

offered money ~~SECRET~~ but not
remembered

for part of U.S. plant - don't
recall Ala. gov.
X = Oak Ridge
4 at L.A.

(X)
4

~~SECRET~~



SECRET
[Dr - Portal Camp (Hawkeye) Port 877055
air path
med
Ref: inc -

(X)
4

41

~~SECRET~~

~~1 1 1 1 1 1 1~~ NICKI

Tues Aug. 10th

5th met
 more back at the ~~off~~ - probably
 where I have entered Alameda
 prot. I'm in for Prosta
 Indic. would catch bus.
 Don't know whether would
 get away or Albu. on 7th trip
 with train to Albu or debated
 Fox - in mind.

post fall 1945 - not more specific
 several mos lapse - went
 to Mex. with Ceils - 11/45 - 5
 back home 1/8 - no contact
 "must have been killed" - probably.

Tom day off - dropping day -
 at 1st took 6 days - later 5 days
 cut
 not on Sunday - ~~no indication~~
 no indic host world but would
 have that leave by train - ~~Spring~~
 42 ~~SEX~~ ~~(X)~~

U J J U U U U U U

SECRET

with to Albuquerque. ^{debated}
Whether should take to albu. or
to Bus Sta -

(F)U

No arr. made for another
later meeting. He felt could not
come again & at time that
would go to Eng. in Jan.

Made arr. for meeting
in London. ^{street} Marlborough
Crescent (in London) & was to
have copy of life - He was to have
a bundle of books with
acid words = words were
to be used - (SK-150403 - length
undrpd sta. time) Day fixed
interviews - later th Jan or Feb -

(1 or 2 mo. interval. Plans were)

Charged - no plan to contact Peter
Hoye - ^{L. Blank} Arr. until 6/19/46

43 SECRET

W (F) U

SECRET

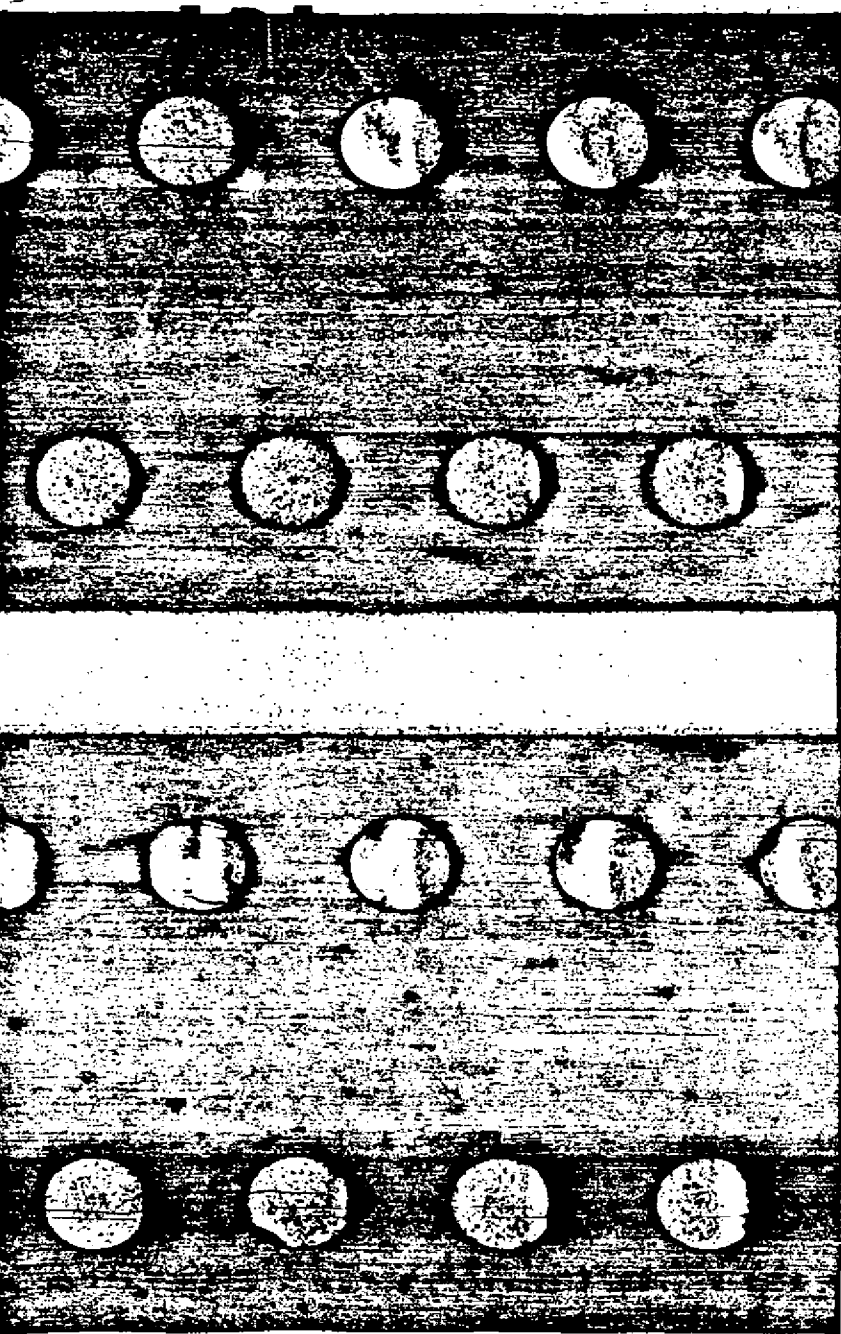
Free 45 to 46 - no contact. ^{at} no consid. for making records. ^{at} Delat Kubik how - doubt; Consider 6/46 - left LA. for West Sa Sister - last day of June ?

Apr 6 Sukhman - USSR
Paris - 2 Rec. Adolphi Bartholdi
buff. for the meeting made here -
47 or 48 - No emergency contact - US
at any time - Sukhman able to
put into contact with those
able to understand him in technical
way - no direct Sukh -
been many signals -

Trip out of LA. out of restricted
area

1. To Bog - Feb. 45 -
2. To Montreal - precise trip
Rep. of Ministry of Supply to Engage
people for Advance - He was
to come to Chicago but the plan

SECRET



Make arr. - Aug. 1944 for
Ditto to

SECRET

U.S.

R & K met in Bos. at Univ.
K went to Swanton
later in NY.
Married -
Reason for difficulty -
Another man - Constantine
met him

Sister
Born in Ind.

Assumed Rd. was C.P.

U.S.

Trips of Contact to sister - once -
she has been twice -
Don't believe she watches
aft. Bos.

While C. there f. Don't know if
Constantine came in. Not there
she didn't contact &
she by - Pushed her out
of 1941. Contact indicates no
accept. to see

Don't know

Miss not does - no money -
the sister channel -
to see sister said wrote at I.A.
that "Joseph is that his name"
had been in. This is going
note...

SECRET

U.S.

SECRET

Not frequent ^{com} contact with
Woolf - King. Knew L.A. Aug 11
had ownership.

11/1/45 - outtrip to Mexico
if join car at alt. Mexico
By Mrs Pauls - Mrs Ed. Tamm
then Tex - Mex City block -
no direct contact +

No CP activities - ^{no CP act}
US. Knew no other contact

- Com. & Esp. Act.
No one knew he was engaged
- Esp. Act.

never taken to Pauls -
Aug. P. didn't know he had
to camp. - Gen -

Some people
that was King. no one knew
def. was any 47

SECRET

W/S

~~SECRET~~

for an article - on to
Klan K. - He found -
Gann - East - Home -
He was active in
Fath - not - any moment.

He approved Phil being what should
do. He was Social Dance Party
(S.D.P.) of Gann -
no way for Pined. date

Asked for name who was working
on the project.

There had any reason for believing
any of Seinger workers - would
expose or sw. act

Not consid. as overacting
Act. Dont know why didnt
act =

U
(X)
U
U
U
(X)
U
(X)

SECRET 44

SECRET

SECRET

Interned - Ex. May 1940 - then to
Canada - July - Quebec - Campbell -
Stegathe - few mos. - ^{there} Camp
near Montreal -

Israel Halperin - ~~SECRET~~

wrote letter when
heard for sure that was
Camp. first sent on Security
Notice - ~~SECRET~~ could do any

thing for him - ~~SECRET~~ ^{He knew there}
H. Kropus for sure - ~~SECRET~~
A lot - touch with H.
maybe - some party my
how sent first of all
party members - ~~SECRET~~ loose
of the - quite likely
A. Chapman as a for ~~SECRET~~

Know Wallace Ferry by name ~~SECRET~~
Galvin ~~SECRET~~ ^{my} ~~SECRET~~ ^{from} ~~SECRET~~ ^{secret}
new meeting ~~SECRET~~ 49

~~SECRET~~

then reply completely absurd.
Agree by [unclear] to go to [unclear]

Amer. [unclear] news - the [unclear]
[unclear] Hotel 1 or 2 miles
then to 79. Left Hotel 1 mo.

the Barbizon Plaza - 2-3 mos.
Then - furn. apt. 77th st.

Another Mr. Min. Arms. left for Eng.
F. took over his furn. apt. 77th st.
Met cars taken & wife -

Caretaker = not negro - Complete [unclear]
Contact. Probably around Xmas -

within 1 month - In Manhattan
Downtown - East side - of Canal St.
Henry St. (Don't remember exact)

Bought map - located spot - went by
Subway or Bus. - Did not ask - How but the

usually not practice to take anything
on 1st meeting

~~SECRET~~

1st meety lots of Tiger ^{no min} SECRET

Worked together in area -
each man very busy & can't move -
(one time this went to Reheat)

Thomas Bratcher

Told where Jim, where working -
Meetings, immediate future:

12/43 & 8/44 -

4 or 5 meetings -

Work assignments

Work with Kellogg -

to develop math theory -
concerns with what comes from

process - Tolerances - Jones
difficult - working plans - art

Size of plant (didn't know size of
lobes for) Mason Prindl was
contact - House -

I was contacted for Kellogg
but work done separately -

Work at Wallst - Structures

SECRETS

(W/F)

J J J J J J J J J J

(about Xchry st. / ~~SECRET~~)

MSN series with that period. by time left for Les Alans MSN series about 20

These were primary papers produced by Pontik Secretists -
Aciels - ^{Skymel} ~~Scade~~ - Bassonky - ^{- in las} ~~Bobonquet~~

June contact - paper MSN
Got drafts back - gave all prepared - Aciels few some and some went to duplication -

Rec'd making no. of copies -
7 had copies for no. of copies -
Dozt. on ones he wrote

At meetings = card number only
being submitted - 12/43 6/44

Rec'd no. money - \$ was spent -
Wouldnt consider anything like that

~~SECRET~~ 52 (X) U

1 1 1 1 1 1 1 1 1 1
Lick meet thru by ~~SECRET~~ ~~SECRET~~
Agreement that I signed - same
No. 1 or 2 words later -

Agreements as to being for surveillance
Cross St. into when water & back back
go into deserted places -
1st time - in house by Alex -
be careful - In to me
topic's - double back - ^{too expensive} - not good -
In London - Judge St -
left of their ^{mainly} ~~SECRET~~

1. Pklyn - defect turn out.
Public Blog. (could be Borobali
not see out ~~PKlyn~~) Place for couple to
meet. Two blogs. - Heavy traffic.
new same place twice ~~SECRET~~

~~SECRET~~

SECRET
844 to Los Alamos

SECRET

WJ
WJ

Probably part of the Proj. &
see my notes - Woneshine are
in a file for Gen. C.P.
This was in the house - belongs
to CP after came here -

Don't know who mentioned (Don't know)
but assumed - hardly necessary -
It was says Sister be
used as Eng. Cont. Don't know
who -

Certain Sister in contact
with other com. members - Gen
didn't like or contact plea -
let agent to it - Don't involve
her - If she suspects this
party work.

55

SECRET

WJ

1 3 2 1 3 1 3

Only two her ~~SECRET~~ might
Care for her - (S) U

You name to Kretzel orally
on last visit By Los Alamos.

Wanted about 7 mos.
(Tell him my address -
if going to Bag. she should tell
him.) (S) U

Feb 1945 to Gurbis -
She told her about contact being there
he had been there - stayed for
quite some time - told some -
He arrived - didn't see her
being no post - accepted it, (S) U

O biscuit - piece of butter -
The best character for children -
maybe a book -
Don't know if R.H. present.
Arr. to see - (S) U
Best jeans (S) U

~~SECRET~~

SECRET

Met - Boston - Close & Rivers
large Public Bldg not particularly
used - at uncertain but probably
new North side

at Home of K. Tes
his words proper notes -
detail of ^{principles} towers, center
Method of Detonation
about time when decided

type of Core -
Did know of how Syst - but
not definitely adopted.

Knew size of H.E. Standpoint
Knew outer dimension of H.E. }
of how Syst. }
U (S) U

Don't believe Amt of U-235 was
did the possible to make a
Plutonium Bomb -

Don't know the whole

57 SECRET (S) U

Would be ~~confidential~~

~~SECRET~~

Don't think he would ask?
- He in Home. He not -
position to

They usually ask you
? such as "Electro magnetic grain"
Don't know whether his is received
Don't know asked as "Kicked Out"

Prepare Paper - at ~~his~~ - 1st - really
detailed paper -

Usually give paper no word
of meeting or precaution.
He never spoke his contact.
Name described as "to which Ho, thy,
'my people'."

No personal int. indicated

[Santa Jo = Titus, 1949 - June]
Should be tried ✓ 58

~~SECRET~~

Diff. = Hi gets to 57 ~~SECRET~~ U

F prepared to meet soldier -

Alameda St - along river -
Frees + Branch, Met - F went get
Car - picked up. Drove across
river turned left to lane -
which stopped at a gate + stopped
talked @ deserted spot (Close to L. Allen)

Then game - (1) As much up to date
for re Park as has. S

(2) Knew test to be done - U

July -

(3) Meeting Moore re ~~mission~~
Post 57e. Probably to talk w
Allen. by Tr.

13-pager MMS. by F.
Lang. Ew. - Cecil -

U

SECRET

~~SECRET~~

But recall was a Boston thing
Didn't take anything for Lat Bos.
Prepared - 80s here

BOS

WJ

take down many of prep BOS
Quite soon afterwards

U
WJ

Central ...
restaurant

~~SECRET~~

Jan 10 1943
U
WJ

~~SECRET~~

Illegally being ...
Some apparatus in ...
and ... at Boston ...
Nov - 1943 -

1st NY

WJ

got app. at height ...
to get ... for ...
logical ...
B.P.

~~SECRET~~

WJ

60

XXXXXX
XXXXXX
XXXXXX

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- Information pertained only to a third party. Your name is listed in the title only.
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_____ Pages contain information furnished by another Government agency(ies). You will be advised by the FBI as to the releasability of this information following our consultation with the other agency(ies).

_____ Page(s) withheld for the following reason(s):

For your information: _____

The following number is to be used for reference regarding these pages:
65-58805-142enc pt 2

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X NO DUPLICATION FEE X
X FOR THIS PAGE X
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H Burt

Dr Am. ~~copy~~ no info re H. Bomb. Passed -
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H. Bomb.

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~~See John~~
~~Schleppert~~

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Report say. - ~~large~~ ~~style~~ ~~Complex~~ -
Present state of knowledge -
Surre - John

H Burt

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H Burt

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Product U. Burt

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Quot. - 10 ~~to~~ 100 per mo.

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steeple

Division into mol. & Rance - very little steeple

ALL INFORMATION CONTAINED
HEREIN IS UNCLASSIFIED
EXCEPT WHERE SHOWN
OTHERWISE

(S)U

CLASS BY SP-5 ~~SP-5~~ 1/28/86

CLASS. & EXT. BY SP-2/AP/ren/wa
REASON - FCIM 11, 1-2.4.2, 1-2.4.3

DATE OF REVIEW 225,667

DATE OF REVIEW 2/28/90

10/13/82

2/25/80

DECLASSIFIED BY 9145 JFE/AG/1995
ON 1/23/86

65-58805-1412

sub enclosure # B

SECRET

Favorable to the Soviet Union. I had in fact ~~been~~ ~~had~~ ~~personal~~ ~~contact~~ ~~with~~ ~~such~~ ~~an~~ ~~individual~~ ~~and~~ ~~made~~ ~~known~~ ~~to~~ ~~him~~ ~~my~~ ~~readiness~~ ~~and~~ ~~availability~~. I made known to him my ~~readiness~~ ~~and~~ ~~availability~~, ~~readiness~~, ~~and~~ ~~availability~~ ^{to furnish pertinent information} ~~and~~ ~~availability~~ ^{which gave me access to such types of} ~~information~~. The person so contacted arranged for me to meet another individual ^{also} in England whom I ^{later} personally contacted in 1942, and on one occasion in 1942 I met this latter individual known to me as Alexander at the Soviet Embassy in London, England. During ~~at~~ my contacts meetings with the individual ~~and~~ Alexander, I furnished to him in 1942 information ^{including unclassified} concerning atomic energy research which I knew to be classified ^{and} confidential and restricted, and for the purpose of such information being furnished to the Soviet Union ~~as~~ ~~an~~ ~~aid~~ ~~in~~ ~~promoting~~ ~~the~~ ~~atomic~~ ~~energy~~ ~~research~~ ~~and~~ ~~development~~ ~~in~~ ~~the~~ ~~Soviet~~ ~~Union~~. Through and at the instigation of Alexander I established personal contact with a female ^{whose name I do not know and} ~~whom~~ ~~I~~ ~~met~~ ~~near~~ ~~Banbury~~ ~~in~~ ~~Oxfordshire~~ ~~England~~ ~~from~~ ~~some~~ ~~time~~ ~~in~~ ~~1942~~. I delivered confidential, restricted and ~~classified~~ information to this woman for the continued benefit of the Soviet Union from 1942 until near the end of 1943. My atomic energy research employment was under the auspices of the British Government.

~~When~~ ~~I~~ ~~learned~~ ~~in~~ ~~1943~~ ~~that~~ I was being officially assigned to go to the United States as a part of an official British mission ~~working~~ ~~to~~ ~~work~~ ~~with~~ ~~the~~ ~~Manhattan~~ ~~Engineer~~ ~~District~~ ~~work~~ ~~on~~ ~~atomic~~ ~~energy~~ ~~research~~ ~~development~~ I informed ~~and~~ my contact, ~~the~~ ~~the~~ ~~above~~ ~~named~~ ~~woman~~, ^{of my assignment} ~~and~~ ~~she~~ ~~subsequently~~ ~~informed~~ ~~me~~ ~~how~~ ~~to~~ ~~make~~ ~~contact~~

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SECRET

~~with~~ in the United States with an individual for the purpose of continuing my activities of ^{furnishing} ~~providing~~ ~~information~~ for the benefit of the Soviet Union, additional confidential information relating to atomic energy ^{in the United States} ~~research~~. Her instructions were ^{to the effect} that I should on a certain day ~~at the time or month~~ at a specified place in New York City, N.Y. U.S.A. meet an individual ~~at~~ who would be wearing gloves and would have an additional pair of gloves in his hands while I would have a ball in my own hand. The meeting was to be according to her instructions to be made over a street in New York City at a stated time. If the contact meeting was not effected initially, as planned, a further meeting would be attempted at a designated later date.

In keeping with my instructions I proceeded by ship to the United States with other members of the British Mission from England arriving at Newport News, Virginia on December 3, 1943. Within three or four ^{part} days I arrived in New York City, taking up residence first at the Taft Hotel, later at the Barbizon Plaza Hotel and later at an apartment at 128 West 47th Street. I took up employment as a scientific consultant as a part of the British Mission assigned to the Manhattan Engineer District and engaged in research development and activities ~~concerning~~ relating to Atomic Energy.

As agreed upon ~~at~~ during the meeting with the ^{person} ~~person~~ ~~in~~ ~~England~~ in England I went to the designated meeting place on the lower East side, Manhattan, New York City, N.Y. where to the best of my recollection around Christmas 1943, I met the designated ~~American~~ ~~contact~~ ~~person~~ ~~at~~ ~~the~~ ~~time~~ ~~and~~ ~~on~~ ~~the~~ ~~day~~ ~~previously~~ ~~agreed~~ ~~upon~~. He was wearing ~~gloves~~ and carried

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an additional pair of gloves in his hand and I
in had a tennis ball in my hand. We exchanged
~~the expected identification words~~
greetings and I gave my correct name and he used the
name of Raymond in making initial introductions. Raymond
expressed his pleasure at being chosen for such an
important assignment. He ~~urged~~^{suggested} me to make certain in
keeping future meeting assignments, that I was not being
followed. During this or the next succeeding meeting
with Raymond atomic energy and ^{the development of an} atomic ~~weapons~~
were discussed by referring to these terms in a
general way, and he asked no questions.

I was motivated in keeping this meeting ~~and~~
by a desire to aid ^{the} Soviet Union. I ~~was~~ considered
^{Raymond's} status as an agent intermediary acting for and
in behalf of the Soviet Union in keeping with
the plans aforementioned which were initiated in
England.

at and during this first meeting with Raymond in
New York City we ~~was~~ agreed upon an early subsequent
meeting and the time and place for such meeting
in order that I could furnish to Raymond highly
confidential classified documents and information concerning
atomic energy research and development under the ~~act~~
the Manhattan Engineer District.

A subsequent meeting between Raymond
and myself in keeping with arrangements was
held in Manhattan, New York City in the vicinity of the
Queensboro Bridge and approach as we walked under
this bridge during this meeting which was held
after dark. This meeting occurred during the
early part of 1944.

Another meeting ~~was held~~ ^{with Raymond} ~~but which I had~~
with Raymond.

On another occasion ^{during the first half of} 1944 I met
Raymond ^{for} on the street near a subway station
possibly the "Museum" station of the ~~subway~~
on Central Park West in ~~public~~ City, Raymond U.

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Usually suggested the meeting place but I believe I suggested this meeting place because it was near my ^{place of} residence on 77th Street.

Another time by ^{arrangement} ^{in 1944} I met Raymond in The Bronx New York City. This meeting was near a Cinema ^{building} on ~~the~~ Grand Concourse in the vicinity of 159th Street, 161st Street.

I ^{believe} ~~know~~ to trace another ^{person} contact between Raymond and myself in Queens New York City in 1944.

There were held ~~to~~ about five or six meetings between Raymond and myself in New York City during the period from sometime shortly after my arrival there ^{in December 1943} and ~~August 1944~~ ^{and August 1944} sometime prior to my departure ^{in August 1944} from New York City ~~and assignment~~ ^{assignment} for Los Alamos, New Mexico for ^{special} assignment on the Atomic Energy project there.

There was one other arrangement for ^{my} meeting ^{with} in Brooklyn, ^{New York} on a street location near some ~~large buildings~~ ^{large buildings} and where there was heavy traffic. ~~I was to meet him on~~ ^{the} ~~street~~ ^{place} on Eastern Parkway but the meeting did not occur as I failed to see Raymond although I was ~~present~~ there.

At all the meetings between myself and Raymond no other ~~person~~ ^{person} accompanied me and I observed no one who seemed to know Raymond. The most of these meetings between Raymond and myself were arranged by us to occur after dark.

Upon my ^{assignment} ^{under} the ~~overall~~ ^{overall} control of the Manhattan Engineer District ~~with~~ ^{with} other scientists were engaged in a study of the principle of ~~gaseous~~ ^{gaseous} diffusion related to the ~~development~~ ^{development} of the production of materials to be used in ~~the~~ ^{the} a proposed detonation of fissionable material.

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I with other Scientists prepared certain highly confidential and classified documents relating to our official assignment and referred to as the MSN Series of documents. There were a total of approximately ^{approximately} such MSN documents prepared ~~by me~~ prior to my ~~own~~ departure for Los Alamos, New Mexico in August 1944. I personally prepared about thirteen of these documents. In the process of the preparation of those ^{MSN documents} written by me, I would first prepare a draft, then on some occasions they would be sent to my immediate superior for reading then in turn would be forwarded for duplication, routed for duplication. Most of the ~~same~~ ^{originals} however I would route the draft, which I prepared, ^{directly} for duplication. In all instances when I prepared the draft the duplicated copies and the ^{original} draft would be returned to me. I would number each of the duplicated copies for control and security purposes due to the highly confidential character of the contents, though I would personally retain the original draft which most of the time I had prepared in long hand and I personally furnished all of the drafts of my own composition strictly to the individual known to me as Raymond, with the intent and purpose that he serve as an intermediary in the ^{original} transmission of such secret documents and for the benefit of the Soviet Union. These documents ~~was~~ were delivered by me personally at times folded and at other times in package form ^{and were} ~~was~~ delivered personally in groups of one or more at ^{most} the aforementioned ^{private} meetings, which I had conducted with Raymond in New York City during 1944.

(to be continued)

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official document of ~~Los Alamos~~, developed
received and had access to confidential, classified
information of an official character. The general nature
of my work while in Los Alamos was concerned with
a certain aspect of the ~~development of the~~
~~the problem of the~~ ~~of the~~ ~~of the~~ ~~of the~~ ~~of the~~
of the theory of the jets in connection with implosion and
similar confidential work as an expert physicist
I remained in ^{with} employment at Los Alamos until June 1946
During this period of official employment I made
a visit to the home of my sister, Kristel Heineman
and her husband Robert Heineman ~~at~~ ^{on} La Brevier
Avenue, Cambridge, Massachusetts. I arrived at my
sister's home ~~on~~ ^{on} about February 13, 1945 and
remained there ~~on~~ ^{on} a visit until about February 22nd 1945
While there and shortly after my arrival I was
visited by the ~~operational~~ individual known to
me as Raymond. He Raymond met me in my sister's
residence and there was a brief visit. He asked
for additional up to date information and I told
him I would prepare in writing details of the bomb
construction ^{and other technical details of the research work} ~~which is known to you as to method of~~
~~detonation~~ information as to proposed plans as to the
type of core, ~~information~~ ^{information} concerning the proposed
lens system and similar technical information. I
knew from my previous conversations with Raymond
that he was not qualified to understand most of
the technical information which I possessed so I
agreed to prepare a written statement containing such
information. Within a few days ^{per my} ~~my~~ ^{prearrangement and}
^{understandings, my} ~~my~~ ^{agreement,} as to time and place of meeting, I did
meet Raymond in Boston, Massachusetts at a place
fairly near the ^{Charles} River and near a large public type
of building ~~reasonably~~ ^{large} ~~near~~ ^{what is known as North}
Station. There and then I delivered to the individual
Raymond a written statement which I had prepared in
longhand and consisting of about ~~seven~~ ^{seven or more} pages.

paper in which I set forth confidential and classified information and data dealing with the whole ~~problem~~ ^{problems} of the ~~construction~~ ^{construction} of fissile material and what was attached to the written material given by me to Raymond a sketch showing in considerable detail the physical make up of an atomic bomb with the ~~from fissile material~~ ^{from fissile material} and the agreed upon as well as ~~aspects~~ ^{aspects} known to me in this same document written by me and delivered by me to Raymond information as to the principles of the method of detonation of an atomic bomb; some information known to me as to the type of core; the principle of the lens system which had not yet ~~been~~ ^{been} ~~adapted~~ ^{adapted}; the size of the ~~high explosive~~ ^{high explosive} component; the possibility of making a plutonium bomb; most of the information which was then known as to implosion; the fact that a high explosive as a type of compression was considered but not entirely decided on; the difficulties of multiple point detonation as this was a problem on which I was working; the highly spontaneous fission rate of plutonium; the comparative ~~critical mass~~ ^{critical mass} of plutonium ~~as compared with Uranium 235~~ ^{as compared with Uranium 235}; the approximate amount of plutonium necessary for ~~a~~ ^a bomb; the current ideas ~~as to~~ ^{as to} the need for an initiator. I wrote this statement in English and in technical language which ~~could be~~ ^{could be} understood by a ~~lunar~~ ^{lunar} physicist in the Soviet Union, ~~and~~ ^{and} ~~was~~ ^{was} ~~written~~ ^{written} ~~in~~ ⁱⁿ ~~English~~ ^{English} ~~and~~ ^{and} ~~in~~ ⁱⁿ ~~technical~~ ^{technical} ~~language~~ ^{language} which ~~could be~~ ^{could be} understood by ~~Raymond~~ ^{Raymond} ~~and~~ ^{and} ~~others~~ ^{others} ~~whom~~ ^{whom} ~~I~~ ^I ~~considered~~ ^{considered} ~~as~~ ^{as} ~~being~~ ^{being} ~~responsible~~ ^{responsible} ~~for~~ ^{for} ~~whose~~ ^{whose} ~~use~~ ^{use} ~~and~~ ^{and} ~~purpose~~ ^{purpose}. I prepared this paper

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During this ^{secret} meeting between Raymond and myself in Boston in February 1945 we made an agreement and arrangements for a meeting ^{to take place} in June 1945 at Santa Fe, New Mexico.

I returned about ^{my way} at Los Alamos, New Mexico ^{arriving there} on or about February 25, 1945. In keeping with the aforementioned agreement and plans made in Boston I met Raymond in Santa Fe, New Mexico in June 1945, ^{shortly before the} ~~probably about the~~ ^{explosion test} ~~of~~ ^{Raymond} indicated that due to his other employment he had difficulty in getting funding, an opportunity to come to Santa Fe. We met as per arrangement on Alameda Street ^{which runs alongside the river} ^{opposite} this street ^{had} are a number of trees and benches. I went for ^{my} the car I was using, picked up Raymond and we drove across the river bridge, turned into a lane, which ended at a gate in an isolated spot place and there we continued our meeting. I delivered to Raymond ^{confidential and classified} written information ^{in a paper} which I had personally written in England. ^{of this} ~~the~~ ^{written} ~~information~~ ^{papers} were the following items of confidential ~~and~~ classified information: A ~~full~~ description of the plutonium bomb which had been designed and was soon planned to be tested at Trinity ~~Alamogordo~~; A sketch of the bomb and its components with important dimensions indicated; the type of core; a description of the initiator; ^{with} details as to the ^{size} ~~temperature~~ ^{of the} ~~types of explosives~~ ^{to be used in the} bomb. I orally informed Raymond while we were in the car at ~~the~~ ^{the} ~~same~~ ^{same} time and place indicated ~~that~~ the names of the types of explosives to be used in the bomb; the fact that the Trinity test explosion was to be ^{with the approximate site indicated} made ^{soon} in July 1945 and that the test was expected to establish that the ^{atom} bomb would be produce an explosion ^{rather} ~~greater~~ ^{greater} than TNT and the ^{expected} ~~temperature~~ ^{of the} explosion was indicated.

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in detail with relations to TNT. All of ^{the} information ^{and delivered by me} given to the individual known to me as Raymond ^{as above} set forth, both orally and in writing ^{and in the form of a sketch} to be highly confidential and classified and pertained to the principles of production, calculated effectiveness, testing and the development of an atom bomb. As I know that the United States of America and the United Kingdom were allies and both at war ~~at that time~~ with a common enemy at the time I recognized and knew that the information, sketch, writings and documents delivered by me personally to the individual known as Raymond ^{were related to} the national defense and the war effort. ^{in the preparation of some of the}

At this meeting in June 1945 ^{between Raymond and myself} at Santa Fe we planned and agreed upon a further meeting to be held in Santa Fe, New Mexico in, I believe, September, 1945. In keeping with these plans I met the ^{same individual} Raymond again in September 1945 at Santa Fe, New Mexico.

(not)

type in the records of the atomic energy project at Los Alamos. ^{in the preparation}

This was done certainly ^{in the preparation} of the written information delivered by me to Raymond with reference to explosion; the type of compressors ^{and} the sequence of high explosive aluminum powder ^{the} principle of uranium tamper and the atomic core; the FBM calculations and the results of efficiency calculations.

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To ~~Secretary~~
Ident Raymond -

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by automobile
 Enroute to Santa Fe for this ^{planned} meeting with Raymond I stopped somewhere on the way in the desert pulled up ~~down~~ off the highway to a ~~secret~~ ^{handy} place Military place and wrote a part of the written paper or document which I planned to deliver to Raymond and which contained ^{highly} confidential and classified information relating to national defense, the preparation of improved ~~secret~~ weapons of war gas and ~~and~~ secret processes ~~and~~ relating to the production and efficiency of such weapons. The said written paper or document which I prepared in long hand ^{contained} ~~contained~~ ^{confidential} ~~confidential~~ ^{classified} ~~classified~~ technical information as follows: The results of the Trinity test or Alamos atom bomb test explosion ^{technical} work on the initiator initiator; information on the pressurized core; a special ^{technical} phase of plutonium ^{and} the uses of a special alloying constituents. All of this written information I gave to the individual known to me as Raymond in keeping with prearranged plan and with the intention that Raymond would act as an agent ~~intermediary~~ in the transmission of such information and data to and for the use of ^{and advantage} the Soviet Union in their research, development and construction of an atomic weapon ^{and for the advantage} by the Soviet Union.

I have been shown ^{by Assistant District Atty H. C. Casper} photographs of an individual ^{and} which these officers of the Federal Bureau of Investigation have informed me were the photographs of an individual by the name of Harry Gold and I have seen these photographs and positively identified ~~and~~ ^{and} ~~photographs~~ ^{photographs} them as the photographs of the aforementioned person known to me as Raymond. I was also shown ^{and} projection of a money picture film by these ^{same} officers of the (FBI)

I have positively identified
 Federal Bureau of Investigation which were the
 missing pictorial projections of the ^{apostrophically} individual known
 to me as Raymond and that some officers have informed
 me that these were the projected moving pictures of
 one Harry Gold. These pictures or photographs were
 of a person identical with my contact agent
 of the Soviet Union in the United States of America.

I received ^{an} ~~instructions~~ ^{suggestion} from Raymond
 during the aforesaid meeting he had with me in
 Santa Fe, New Mexico

see notes

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Insert P10

IBM Calculations, the method of calculating efficiency

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DECLASSIFIED BY 6032 JES/STP
ON 05-08-2010
CLASSIFIED BY 6032 JES/STP
ON 05-08-2010
DECLASSIFIED BY 6032 JES/STP
ON 05-08-2010

I was born in Bielefeld, Germany on December 29, 1911 and became a naturalized citizen of the United Kingdom on August 9, 1942 and came to England on September 24, 1933. In May 1941, I accepted employment at the Ministry of Birmmingham in England on atomic energy research development. When I learned of the purpose of this research work I decided to furnish information concerning this work to the benefit of the Soviet Union of Soviet Socialist Republics in order to expedite this plan. I personally contacted in person one individual whom I knew to be active in Communist circles.

sub enclosure 5

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arr. early mety

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for further contact -

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[Each firm - writing
 info re - agencies - activities at various
 agencies - orally - Propaganda orally -
 News box notes at meetings -

JM

Security

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No. Confidential

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10/12

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by any one would have given
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 Swallow's head & outly
 Smoker's Cup
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 v. for it.
 M. case her eye line hairline
 Little pupil - eye up to right - quite dark

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 J. J. U

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ENCLOSURES:

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- Exhibit #4 - Sketch of A-Bomb.
- Exhibit #5 - Signed form listing number of reports prepared by Fuchs.
- Exhibit #6 - 10-page signed statement of Fuchs.
- Exhibit #7 - 7-page signed statement of Fuchs.
- Exhibit #8 - Photograph of Fuchs at age of 16 or 17 years and another photograph at the age of about 20 years furnished by British Security Service.
- Exhibit #9 - Photograph of Fuchs taken in 1943 as furnished by British Security Service.

~~SECRET~~

sub enclosure #9

U(B)

ENCLOSURES:

~~SECRET~~

- Exhibit #2 - 2 photographs of Harry Gold identified in Fuchs' handwriting.
- Exhibit #4 - Sketch of A-Bomb.
- Exhibit #5 - Signed form listing number of reports prepared by Fuchs.
- Exhibit #6 - 10-page signed statement of Fuchs.
- Exhibit #7 - 7-page signed statement of Fuchs.
- Exhibit #8 - Photograph of Fuchs at age of 16 or 17 years and another photograph at the age of about 20 years furnished by British Security Service.
- Exhibit #9 - Photograph of Fuchs taken in 1943 as furnished by British Security Service.

~~SECRET~~

sub enclosure #9

U(B)

Emil Julius Klaus FUCHS.



CLASS. BY 6713
DATE OF REVIEW 10/13/82

Copy of Photograph in German Passport.
Aged 16 - 17.



aged about 20.
Sub enclosure #12

DECLASSIFIED BY 9145 JFE/AG/PR/88
ON 11/25/86
#265,728

(X)



Taken in 1943. Good likeness.

Emil Julius Klaus FUCHS.

Born, 29.12.1911, Russelheim, Germany.
British by naturalisation, formerly
German.

Research Physicist.

Height:- 5' 9"-10"

Build :- Slight.

Complexion:- Sallow.

Hair :- Dark brown, parted on left
and receding.

Eyes:- Brown.

Features:- High Forehead, Clean shaven
Long lean face. Sharp
pointed nose. Wears
glasses.

U (X)

DECLASSIFIED BY 9145JFE/AG/BBC
DATE 12/13/86
#2651728
67
DATE OF PHOTO 10/1/43



Taken in 1943. Good likeness.

Emil Julius Klaus FUCHS.

Born, 29.12.1911, Russelheim, Germany.
British by naturalisation, formerly
German.
Research Physicist.

Height:- 5' 9"-10"

Build :- Slight.

Complexion:- Sallow.

Hair :- Dark brown, parted on left
and receding.

Eyes:- Brown.

Features:- High forehead, Clean shaven
Long lean face. Sharp
pointed nose. Wears
glasses.

306 enclosure # 11

U (S)

Emil Julius Klaus FUCHS.



Copy of Photograph in German Passport.
Aged 16 - 17.



Aged about 20.

u (X)