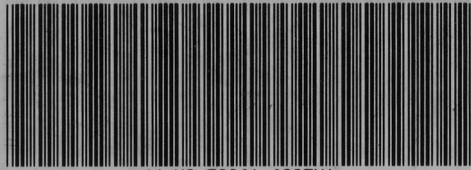


44 - HQ - 38861

6007X1

EBF



44-HQ-38861-6007X1

Enclosure

X DO NOT DESTROY
HISTORICAL VALUE
NATIONAL ARCHIVES

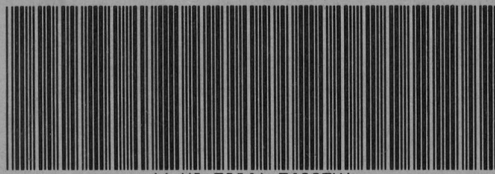
ENTIRE FILE REVIEWED
FOR HISTORICAL
DECLASSIFICATION

44-38861-6007X1

44- HQ-38861

E6007X1

EBF



44-HQ-38861-E6007X1

ENCLOSURE

ATTENTION

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FBI/DOJ

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MAY 19 1977 BY *K 348*



FEDERAL BUREAU OF INVESTIGATION
WASHINGTON, D. C. 20535

To: FBI, Memphis
Re: MURKIN

Date: FBI File No. April 29, 1968
Lab. No.

Specimens received 4/5/68

For a complete listing of the evidence, refer to Laboratory report previously submitted to the Memphis Office.

Results of examination:

The lead cores of the bullets in the five cartridges Q4 through Q8, were found to vary in composition even though they were all from the same manufacturer.

The core portion of the Q64 bullet fragment from the victim's body is similar in composition to the lead core of the bullet in the cartridge designated Q4 and could have come from a source such as represented by the lead core of the bullet in Q4.

The bullet jacket portion of specimen Q64 is similar in composition to the metal of the jackets of the bullets in the Q4 through Q8 cartridges and could have come from the source represented by these bullets.

KING CASE
 Bullet Leads

C 27

Fe 25

Q64 = 1.56 mg 23 S_i^+ Sb^- Mg^{++} Pb^+ Fe^+ Bi Cu Ag Sn^{tr}

Q4 = 1.50 71 S_i^+ Sb^- Mg^+ Pb^+ Fe^+ Bi Cu Ag

Q5 = 1.47 69 S_i^+ Sb^- Mg^+ Pb^+ Fe^+ Bi Cu Ag

Fe 67

Q6 = 1.49 65 S_i^+ Sb^- Mg^+ Pb^+ Fe^+ Bi Cu Ag

Q7 = 1.54 63 S_i^+ Sb^- Mg^+ Pb^+ Fe^+ Bi Cu Ag

Q8 = 1.52 61 S_i^+ Sb^- Mg^+ Pb^+ Fe^+ Bi Cu Ag Sn^{tr}

April 19 1968

A

KING CASE
COPPER JACKETS

C 21

Q64 (1.87 mg) 25 $B^{tr} Mg^{tr} Fe^{vst} Fe^{vs} Cu^{+} Ag^{+} Zn^{-}$

Q4 (1.80 mg) 23 $B^{tr} Mg^{tr} Si^{vst} Fe^{vs} Cu^{+} Ag^{+} Zn^{-}$

Q5 (1.81 mg) 21 $B^{tr} Mg^{tr} Si^{vst} Fe^{vs} Cu^{+} Ag^{+} Zn^{-}$

FE 29

Q6 (1.79 mg) 67 $B^{tr} Mg^{tr} Si^{vst} Fe^{tr} Cu^{+} Ag^{+} Zn^{-}$

Q7 (1.81 mg) 65 $B^{tr} Mg^{tr} Si^{vst} Fe^{vst} Cu^{+} Ag^{+} Zn^{-}$

Q8 (1.80 mg) 63 $B^{tr} Mg^{tr} Si^{vst} Fe^{tr} Cu^{+} Ag^{+} Zn^{-}$

April 19 1968

B

C 73

Fe 71

Q64 69 = 1.565mg Sb⁻ As⁶⁺ Mg⁺ Pb⁺ Si Fe⁺ Bi⁺ Sn⁺

Q4 67 = 1.545mg Sb⁻ As^{vs+} Mg⁺ Pb⁺ Si Fe⁺ Bi⁻

Q64 65 = 1.670mg Sb⁻ As^{vs+} Mg⁺ Pb⁺ Si Fe⁺ Bi⁻

April 22 1968

C

SAMPLE	wst.	µg Sb	% Sb	
Q64A	9.86 mg	132	1.34	} 1.37%
Q64B	10.54	133	1.26	
Q64C	8.49	127	1.50	
				G = .12 Rel. G = 9%
Q4A	9.90	156	1.58	} 1.52%
Q4B	9.06	131	1.45	
Q4C	8.14	124	1.52	
				G = .07 Rel. G = 5%
Q5A	9.54	207	2.17	} 2.11%
Q5B	9.46	199	2.10	
Q5C	8.50	175	2.06	
				G = .06 Rel. G = 3%
Q6A	9.68	220	2.27	} 2.29%
Q6B	9.63	228	2.37	
Q6C	9.60	214	2.23	
				G = .07 Rel. G = 3%
Q7A	10.00	68	.68	} .71%
Q7B	8.42	62	.74	
Q7C	9.75	70	.72	
				G = .03 Rel. G = 4%
Q8A	9.60	110	1.15	} 1.06%
Q8B	9.30	95	1.02	
Q8C	9.18	92	1.00	
				G = .08 Rel. G = 8%

According to Remington - Paterson, these are
 No. Spec. Self for core lead.

Perkins' board in history

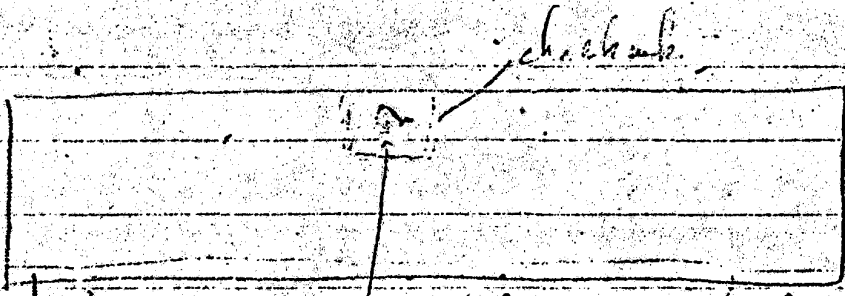
E. M. M.
4/7/68
12:55 PM

Rec'd by from 4/6/68

T. shirt

shorts

Board from window sill



No grey color particles found

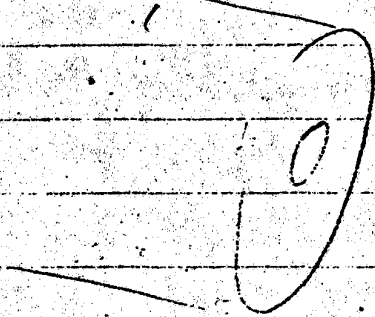
Slide. Air

Emb. showing
Poss. ink from side of
gun magazine
Too faint ink for ident.

density, chipped white paint
Prob.

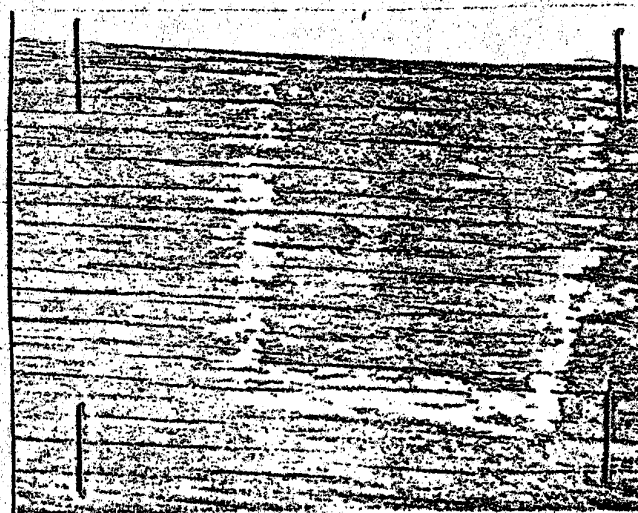
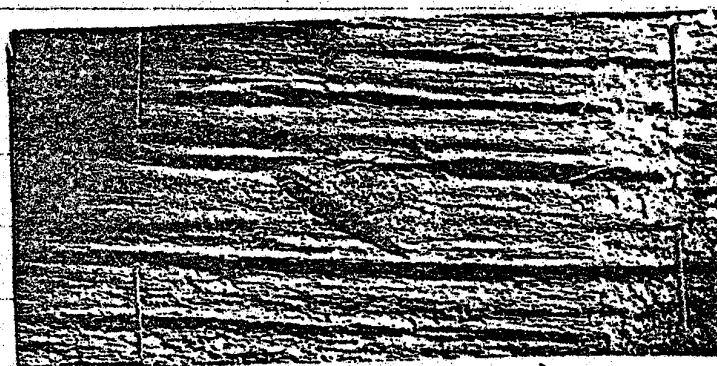
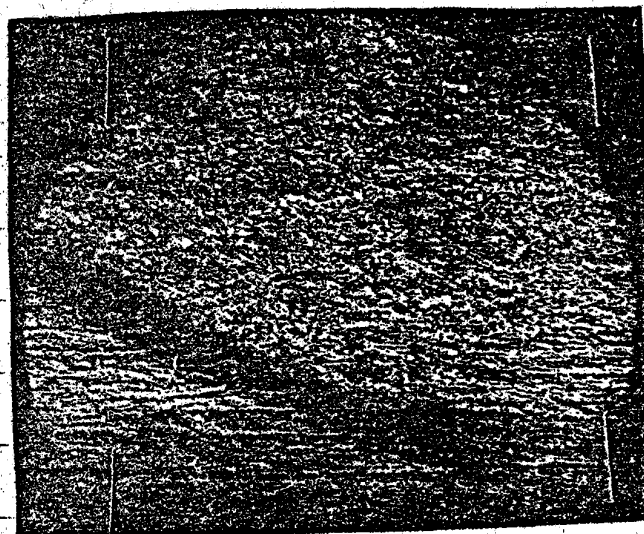
but \equiv typic to machinery

ink on side of Q2 magazine \equiv same as police



Mks. not proved by ^{Q16} tank hammer when by samples (PC 5422 B2) - Photo 44
Photo of 11 inches board 1st PM 4/7/68 / R. see attached
S. M.

Board to by carrier 4/7/68





FEDERAL BUREAU OF INVESTIGATION
WASHINGTON, D. C. 20535

To: FBI, Memphis

Date: April 11, 1968

Re: MURKIN

FBI File No.
Lab. No.

Specimens received personally delivered on 4-8-68 by SA
Memphis

- Q69 Undershorts
- Q70 T shirt
- Q71 Board from windowsill in bathroom

Results of examination:

The undershorts and the T shirt each bears a laundry tag with what appears to be the characters "02B-6." Only a portion of the first character is present on each tag. The Laboratory does not maintain a file of visible laundry marks. No invisible laundry marks were found on the undershorts or T shirt.

The pair of undershorts is small in size while the T shirt is large.

The pair of undershorts does not have a brand label. The T shirt has a "JOCKEY" brand label.

The T shirt label is held flat with a folded piece of 3/4" wide cellophane tape. The piece of tape is about 1" long. One end has been cut, and the other end has been torn.

The crotch seams of the undershorts have been repaired in two places with brown thread. The repaired areas are hand stitched.

No hairs were found on the undershorts or T shirt.

The Q71 board bears a recent dent which could have been produced by a light blow from the muzzle of a weapon such as the Remington rifle, Serial Number 461476

Page 1

RAF:nlb (12)

(continued on next page)

MAIL ROOM TELETYPE UNIT

- Olson _____
- DeLoach _____
- Mohr _____
- Bishop _____
- Asper _____
- Callahan _____
- Conrad _____
- Felt _____
- Gale _____
- Rosen _____
- Sullivan _____
- Tavel _____
- Winter _____
- Tele. Room _____
- Holmes _____
- Gandy _____

previously submitted in this case. The dent contains microscopic marks of the type which could be produced by the side of the barrel at the muzzle but insufficient marks for identification were left on the board due to the physical nature of the wood. The microscopic marks present are different from the type which would be produced by the duck-bill pliers or jack hammer which were in the blue zipper bag previously submitted. No other marks were found on the board.

No gunpowder or gunpowder residues were found on the Q71 board.

No wood, paint, aluminum or other foreign material was found on the rifle barrel nor were any significant marks found on the rifle barrel.

REPORT
of the



FEDERAL BUREAU OF INVESTIGATION
WASHINGTON, D. C.

To: FBI, Memphis

Date: April 17, 1968

Re: MURKIN

FBI File No.

Lab. No.

Specimens received

For a listing of the evidence
see attached pages.

DELIVERED APRIL 5, 1968 BY

MEMPHIS OFFICE

Submitted by Airtel #1 as recovered by Inspector N. E. Zachary, Memphis Police Department in vicinity of 424 South Main Street:

- Q1 Rifle box for Browning .243 Winchester caliber rifle, Serial Number 4744Z5
- Q2 .30-06 Springfield caliber Remington "Gamemaster" slide-action rifle, Model 760; Serial Number 461476, with Redfield telescope sight, Serial Number A17350, with clip
- Q3 .30-06 Springfield caliber Remington-Peters cartridge case
- Q4-Q12 Nine .30-06 Springfield caliber cartridges (five Remington-Peters and four R-A-55) in Peters cartridge box, Index Number 3033
- Q13 Large green and brown cloth

Submitted by Airtel #2 as recovered by Inspector N. E. Zachary, Memphis Police Department in vicinity of 424 South Main Street:

- Q14 "Banner" binocular (Bushnell) 7 by 35, Serial Number DQ408664 (allegedly in zipper bag when recovered)
- Q15 Zipper bag

ITEMS FROM OUTSIDE COMPARTMENT OF ZIPPER BAG

- Q16 Duck-bill pliers and tack hammer marked "MAGNETIC"
- Q17 Box of "BAND-AID sheer strips"
- Q18 Georgia-Alabama Standard Oil map
- Q19 "Commercial Appeal" Memphis newspaper, first section only, issue of April 4, 1968
- Q20 Standard Oil map of the United States

ITEM INSIDE ZIPPER BAG, IN POCKET

Q21 Partial roll of toilet paper

ITEMS LOOSE INSIDE ZIPPER BAG

Q22 Binocular case with instruction booklet, lens cloth and guarantee card

Q23 Binocular box, cardboard

Q24 "Gillette" travel kit purchased at Oliver Rexall Store, Whitehaven, price \$1.89, with razor, lotion shaving cream, deodorant, hair cream and razor blade in dispenser

Q25 Gray paper sack bearing marking "YORK ARMS CO." with receipt dated 4-4-68 in amount of \$41.55

Q26 White and yellow towel

Q27 White handkerchief

Q28 Tube of "Colgate" toothpaste

Q29-Q30 Pair of black socks

Q31 Seven-ounce can of "RIGHT GUARD" deodorant

Q32 Channel Master radio

Q33 Bottle of "BUFFERIN"

Q34 Elastic belt

Q35 Tube of "ERYLCREEM"

Q36 Bottle of "ONE A DAY" vitamins

Q37 Small bar of "Cashmere Bouquet" soap

Q38 Hairbrush

Q39 Bar of "dial" soap, bath size

Q40 Tube of "Head & Shoulders" shampoo

ITEMS LOOSE INSIDE ZIPPER BAG (continued)

- Q41 Can of brown "KIWI" boot polish
- Q42 Can of "PALMOLIVE RAPID-SHAVE" shaving cream
- Q43 Gray-brown button (in sack with beer)
- Q44 Black button (in sack with beer)
- Q45 Toothbrush, "Pepsodent"
- Q46 Safety razor, without blade
- Q47 Plastic bottle of "MENNEN afta" lotion
- Q48 Small bar of "Cameo" toilet soap
- Q49 Small bar of "Cashmere Bouquet" soap, bearing advertisement of Friendship Inns
- Q50-Q51 Two bobby pins
- Q52-Q53 Two cans of "Schlitz" beer, pull tab
- Q54 Plastic "six-pack" carrying device
- Q55 Brown paper sack (containing beer)
- Q56 Small brown paper sack, empty
- Q57 Key
- Q58 Toothpick
- Q59 Metal ring
- Q60-Q61 Two coat hangers
- Q62 Two links from "ADJUST-O" watchband
- Q63 Gray-brown button

Submitted by Airtel #3:

- Q64 Bullet from body
- Q65 Twenty dollar Federal Reserve Note, Series 1963A,
Serial Number F14002844A
- Q66 Twenty dollar Federal Reserve Note, Series 1963A,
Serial Number H16164663A
- Q67 Twenty dollar Federal Reserve Note, Series 1963,
Serial Number F06445143A
- Q68 Fingerprint card for Bessie Ruth Brewer

Page 4

Results of examination:

FIREARMS - TOOLMARKS EXAMINATIONS

The serial number on the black rifle box, Q1, was determined to be 4744Z5. This box originally contained a .243 Winchester caliber Browning rifle.

The Q3 cartridge case was identified as having been fired in the Q2 rifle. The only marks found on Q3, other than marks made during manufacturing procedures, were one extractor mark which was identified as having been made by the extractor of the Q2 rifle and the marks left on Q3 by the Q2 rifle when Q3 was fired.

The bullet, Q64, from the victim, is a .30 caliber metal-jacketed "soft-point" sporting type bullet of Remington-Peters manufacture which was fired from a barrel rifled with six lands and grooves, right twist. Based on the physical characteristics of the general rifling impressions, the Q64 bullet could have been fired from the Remington rifle, Q2. The Q64 bullet has been distorted due to mutilation and insufficient marks of value for identification remain on this bullet. Therefore, it was not possible to determine whether or not Q64 was fired from the Q2 rifle.

The Q64 bullet is identical in all remaining observable physical characteristics to the 150 grain bullets in the five loaded .30-06 Springfield caliber Remington-Peters cartridges, Q4 through Q8.

Based on physical characteristics, specimen Q64 and the cartridge case, Q3, could originally have been portions of the same cartridge, which would be the same as the Q4 through Q8 cartridges. No marks are present on Q64 of the type which would permit determining positively whether or not the Q64 bullet was originally a portion of the cartridge represented by Q3.

The five cartridges, Q4 through Q8, conform in description to the type of cartridges packaged by the manufacturer in the Peters cartridge box in which they were submitted. Because of the manner in which cartridges are boxed at the factory, it is not possible to determine whether or not the cartridge represented by Q3 or any of the

Q4 through Q8 cartridges were packaged in the same box by the manufacturer.

The Peters cartridge box in which Q4 through Q8 were submitted also contained four U. S. Military cartridges, containing full-metal jacketed 150 grain bullets, different from Q64. The manufacturer's headstamp on these cartridges is "R A 55." The "R A" indicates that these cartridges were manufactured by Remington Arms Company, Incorporated, Bridgeport, Connecticut. Cartridges bearing "55" are those normally manufactured in 1955.

Examination of the four cartridges, Q9 through Q12, revealed no marks indicating these cartridges had ever been loaded into a weapon. The only marks on these cartridges appear to be marks produced by the manufacturer's machines and marks of the type produced by metal-link ammunition belts of the type used with machine guns. The link belt marks on Q9 through Q12 are suitable for comparison with the metal links from which the cartridges were withdrawn. In metal-link belts, each cartridge serves to hold adjacent links together. As each cartridge is withdrawn, a link (which is expendable) separates from the rest of the belt.

No aluminum, screen-type scratches, paint, wood or other foreign material was found on the muzzle or side of the barrel of the Q2 rifle.

No record was located in the National Stolen Property Index or the National Crime Information Center for a Browning rifle, Serial Number 4744Z5, as originally contained in Q1; for the Q2 rifle; for a Redfield 2X-7X variable telescope sight, Serial Number A17350 (which is mounted on Q2), or for the Bushnell binocular, Q14, Serial Number DQ408664.

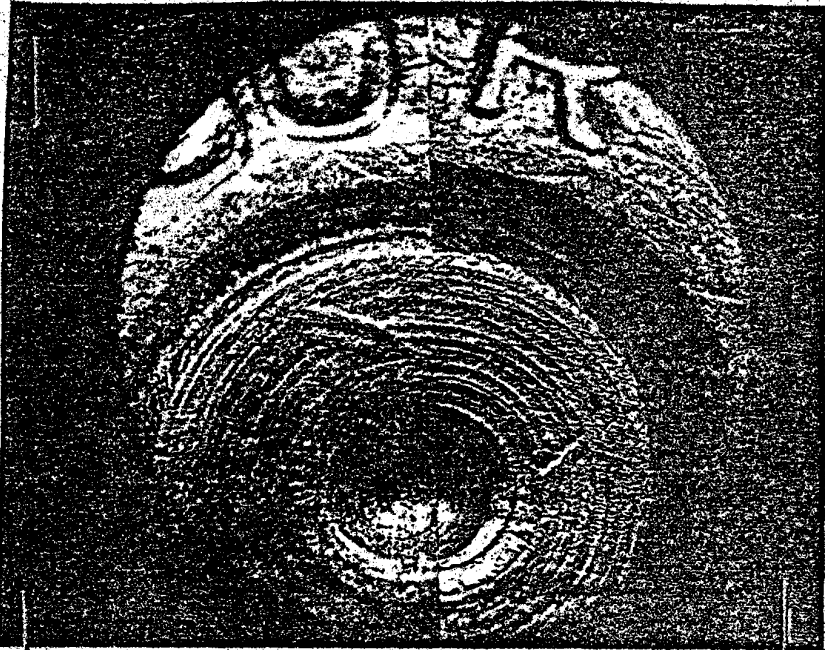
No serial number which would facilitate tracing was found on the Weaver telescope sight mount and base on Q2. The screws used to secure the sight tube to the mount were "finger" tight. No tool was required to loosen them and no toolmarks of value for comparison are present.

Page 6

(continued on next page)

The magnification setting of the telescope sight tube was "6½x" when the Q2 rifle was received. Therefore, objects viewed would be enlarged to approximately 6½ times normal size.

Gen. Notes: Q1. Ident by ... as from Arconarim supply
Q4-Q8 & 4 mol clgs Q9-12 in Peters clg box for
150 gr P.S.L. pellets (lot 064)

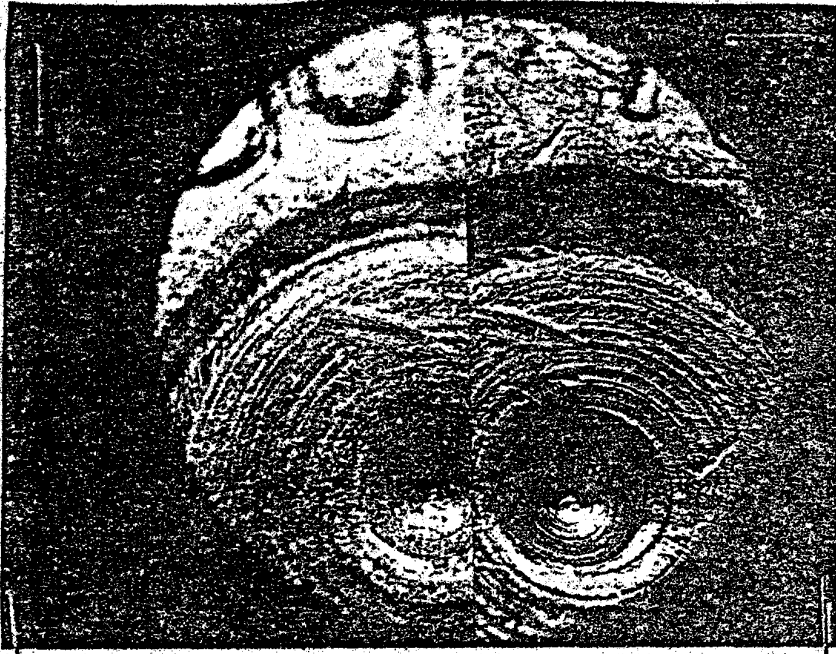


Firing Pin - NG
for comp - purposes

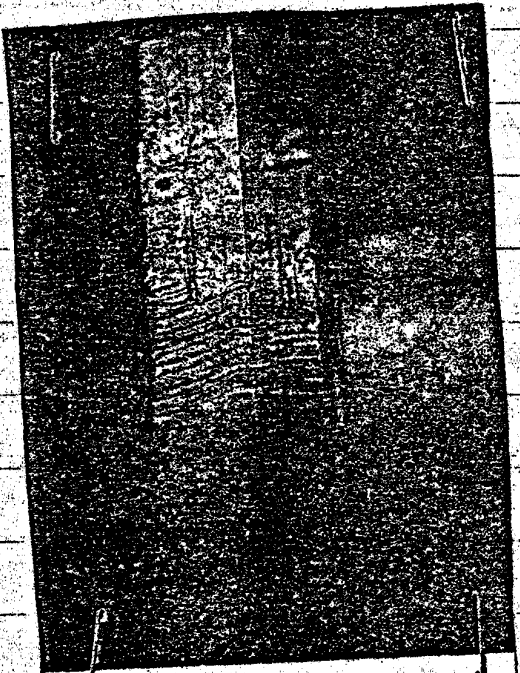
Q3 48mm Q2



Q3 48mm Q2

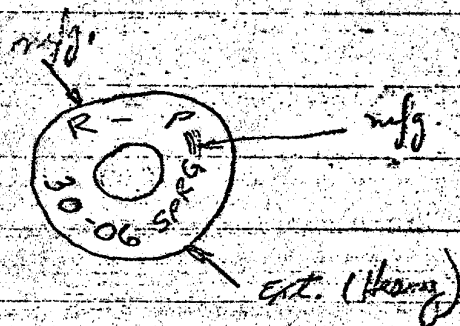


Q₃ 48mm Q₂



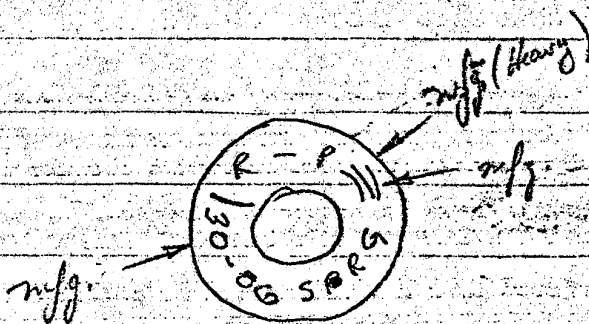
Q₃ 32mm Q₂

Q4

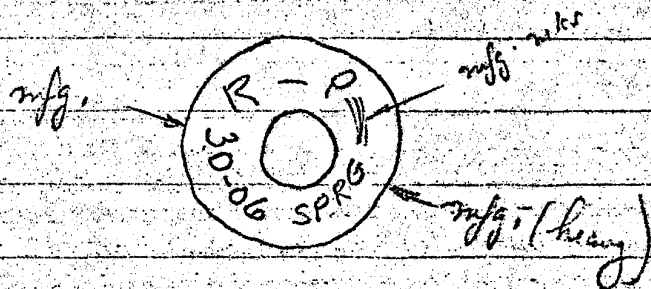


placed into shell holders in lab.

Q5

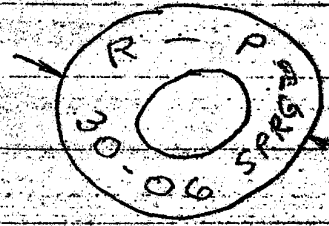


Q6



Q7

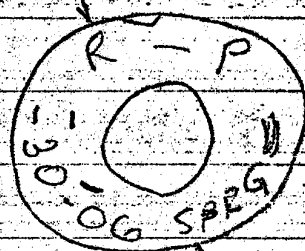
(very light)
mf.



heavy
mf.

Q8

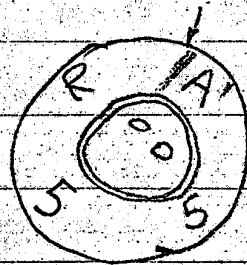
mf.



heavy mf.

Q9

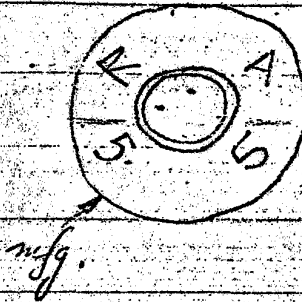
purple H₂O proofing



heavy mks
machine gun belt

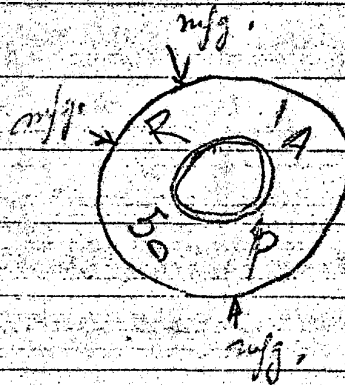
Q10

purple H₂O proofing
similar link marks as Q9



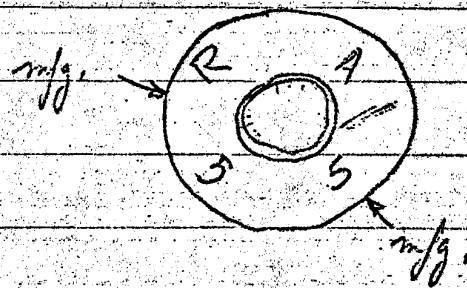
Q11

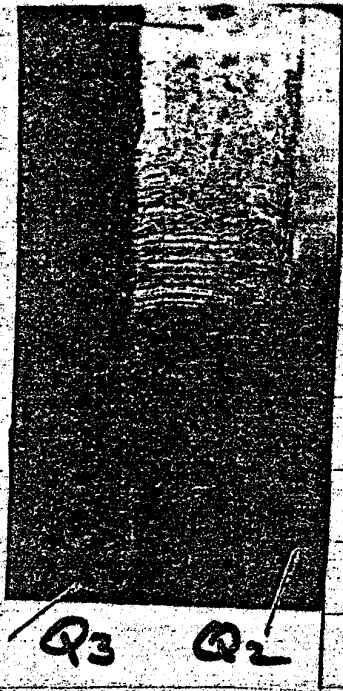
purple H₂O proofing
similar link marks as Q9



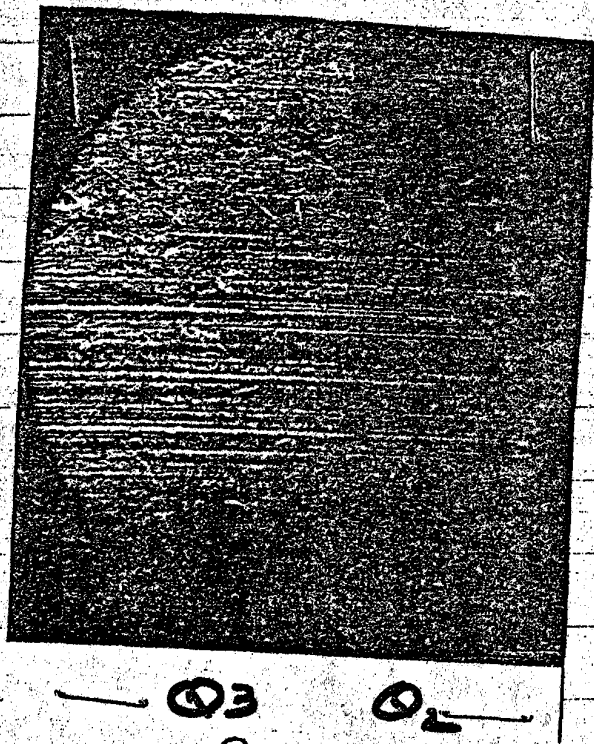
Q12

purple H₂O proofing
similar link marks as Q9

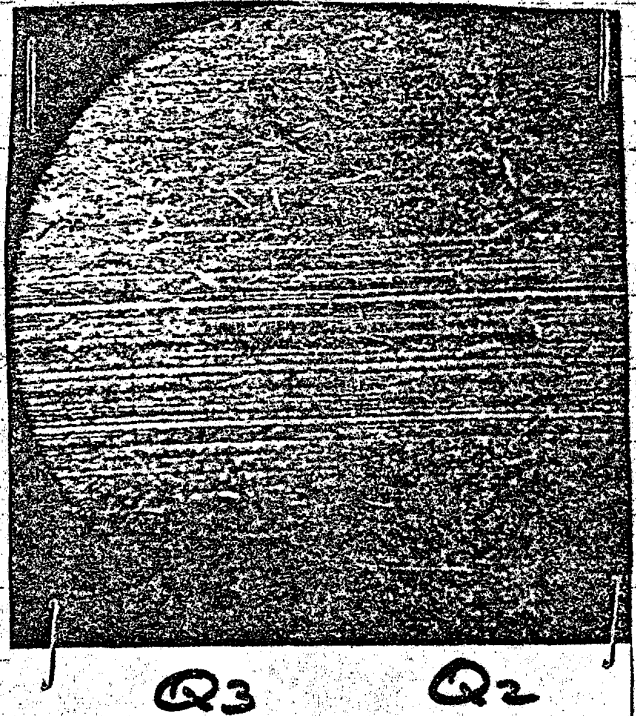




P₁
48 mm



Q3 Q2
P₂
48 mm



Q3 Q2
P₃
48 mm

Q67 MC - c bullet - NC - Q2 rifle - muffs side of Vol
Blood and body tissue due to mutil.
Wt 70.38 Corig. 150gr R-P Few outside on base portion

#L+G 6

Dir Right

Land width .040 ± .002

Groove width .115

Dia .308 - .3087 - .30 cal.

Length - Mutil

Refly n -

Savage, Model ²¹⁹ 110 ³⁰⁻³⁰ ; Saw. 300 Win 99, 110, 110C
Remington, Models 721, 725, 740, 760 ; Saw. 300 Win Mag. 0110
Rem. ³⁰⁻⁰⁶ M 722, 760, 600 ; 300 Win Mag. Saw. 300 Saw - 89

Q64 like bullets in Q4-Q8 + ed by pt of Q3 + etc. (bullet)
Q64 diff from bullets in Q9-12 (military ball)

hole same bullet loaded into ^{20 06}
" " sold for reloading - .30 cal

Bullets

Powder

Q4 wt = 150.75 gms wt = 50.50 gms

Q5 wt = 148.95 gms wt = 50.85 gms

Q6 wt = 149.45 gms wt = 50.90 gms

Q7 wt = 150.25 gms wt = 50.70 gms

Q8 wt = 149.70 gms wt = 50.82 gms
 var 1.80gr .4gr var.

Q9 wt = 151.44 gms wt = 49.10 gms

Q10 wt = 151.10 gms wt = 49.50 gms

Q11 wt = 151.50 gms wt = 49.70 gms

Q12 wt = 150.31 gms wt = 49.44 gms
 (Var 1.13gr) ↑ .6gr var

Q3 30-06 Spfd R-P cartridge case

HL side Q3 R Ident Q2 gun

No mks other than ext mks from Q2 and B7E = Fl mks
of value - Some mks under rim apparently by refy loading
tools; sim ^{in type} mks on Q4-Q8 and Q9-Q12 and
on ctgs in 3 boxes this type ammo in test supply in lab.

Q3 like ctg case portions of Q4-Q8

Q3 and Q64 cd be from same ctg. - no mks for diff. ctg.

Q3 has 1 ext mks - Id Q2

Q3 has suff shell holder or machine mks - loading op.

Q3 has shoulder mks - Id Q2

Q3 has no other mks value

Wgmn Rem Model 700 Model

Aeromarine Supply Co.

exchanged for Q2

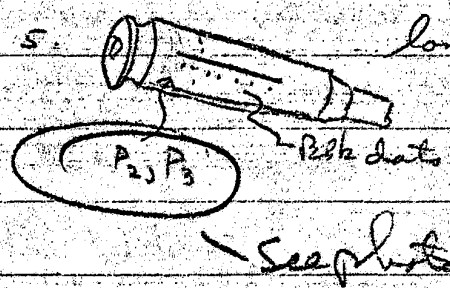
B7E

Not fired; dismantled in Egypt.

Sgt A. S. Sabir

Q₃ Cont case.

- 1 - Mixed Q₃ R
- 2 - Black marks show areas ident. w/ Q₂ except - BF.
- 3 - Areas under rim - w/ G for ext. - / Q₂ extractor is "horizontal-type"
- 4 - Rim shows only 1 Extractor mark. See photo P₁



long scratch ident w/ Q₂ no photo.

Bussolar 7x35

D.P. Bushnell Bldg, Inc. 639

Bushnell Bldg
Pasadena, Calif 91107

NR-NCIC 4/5

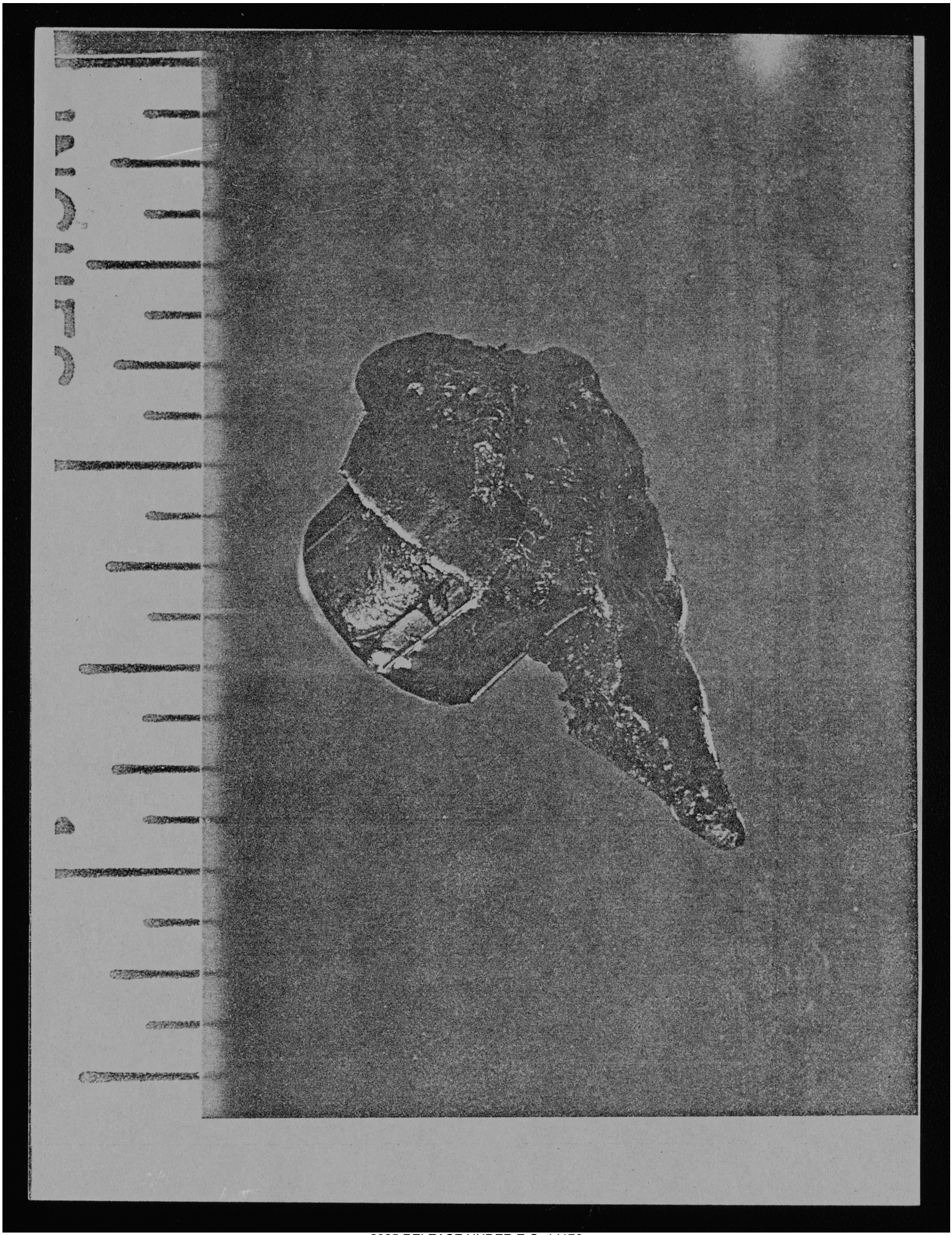
(Not listed as policy in NSP)

Mfg ballistic data for 3006 Sp6 150 gr PSP CL R-P
 (~~not~~ listed in 1965 Peters Cat. - Listed in 1963 Cat. Peters
~~not~~ " " 1948 Peters Cat. " " 1965 Rem Cat.
 listed → 1955

R-P headstamp origin

Powder spec	Muzzle Vel					Energy					Sight in 200 yds					
	100	200	300	400	500	100	200	300	400	500	100	200	300	400	500	
150 Hi-Speed	2970	2670	2400	2130	1870	2970	2370	1920	1510	1190	970	1.9	0	-7.5	22.6	-45.7

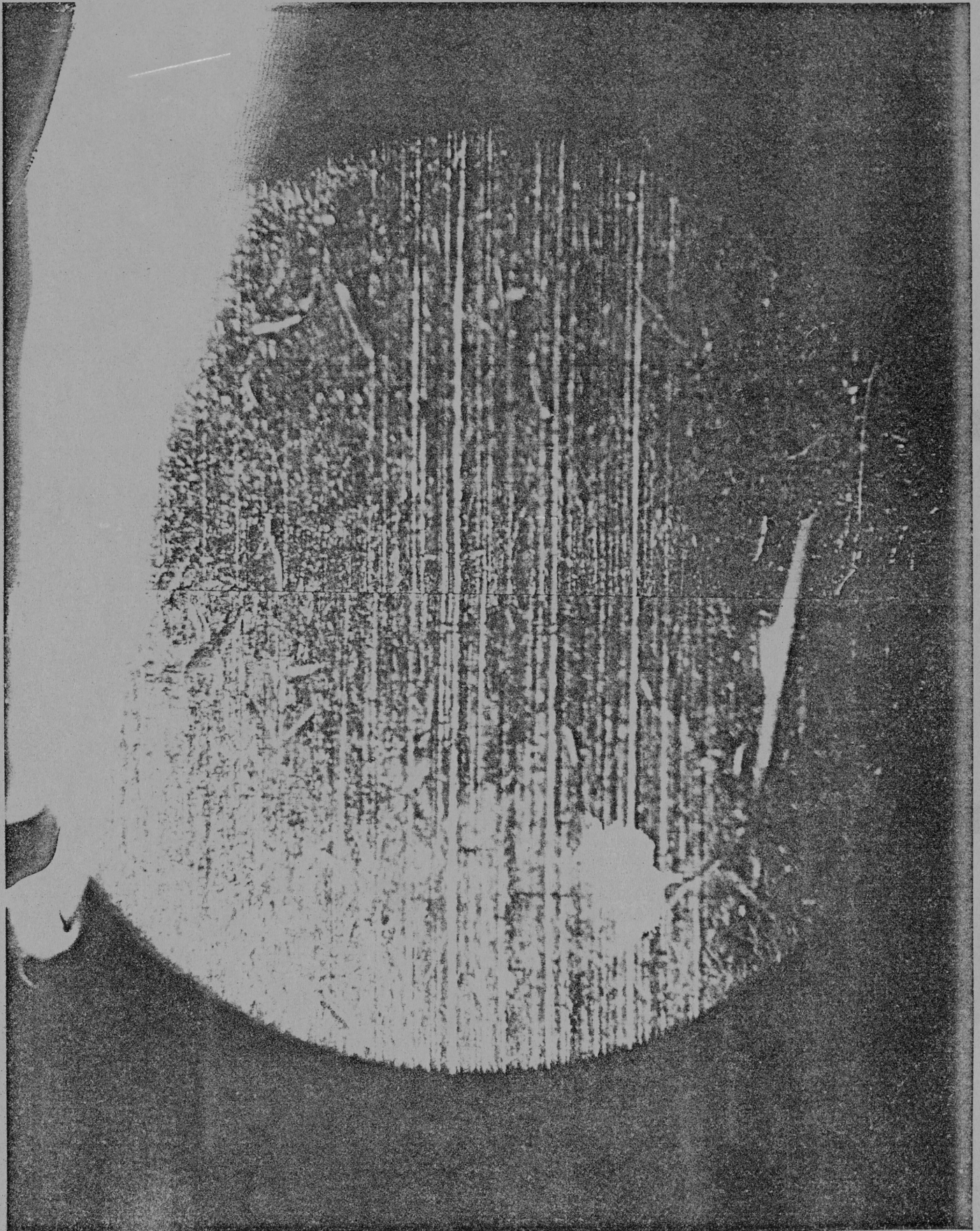




2025 RELEASE UNDER E.O. 14176

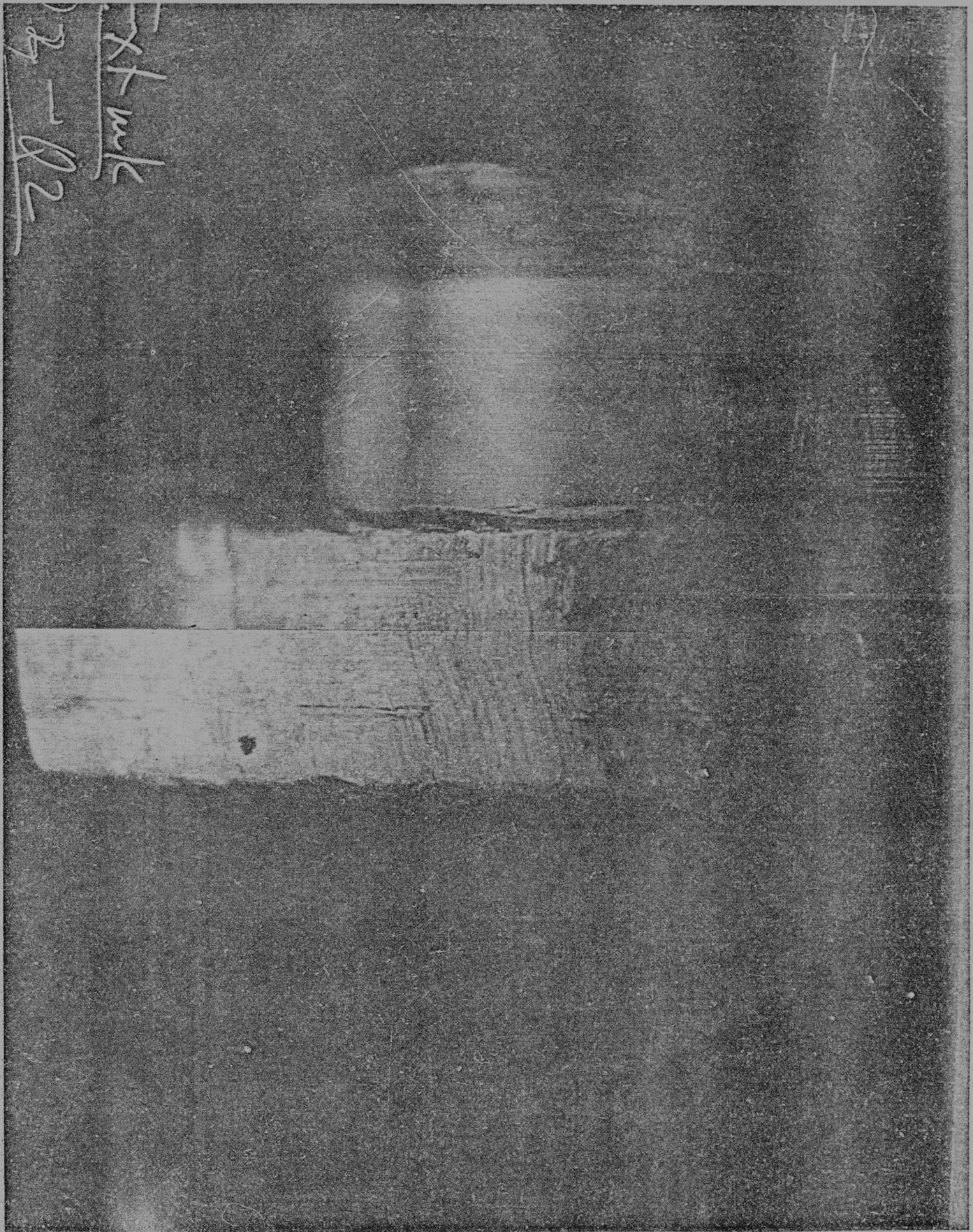
MAINTENANCE

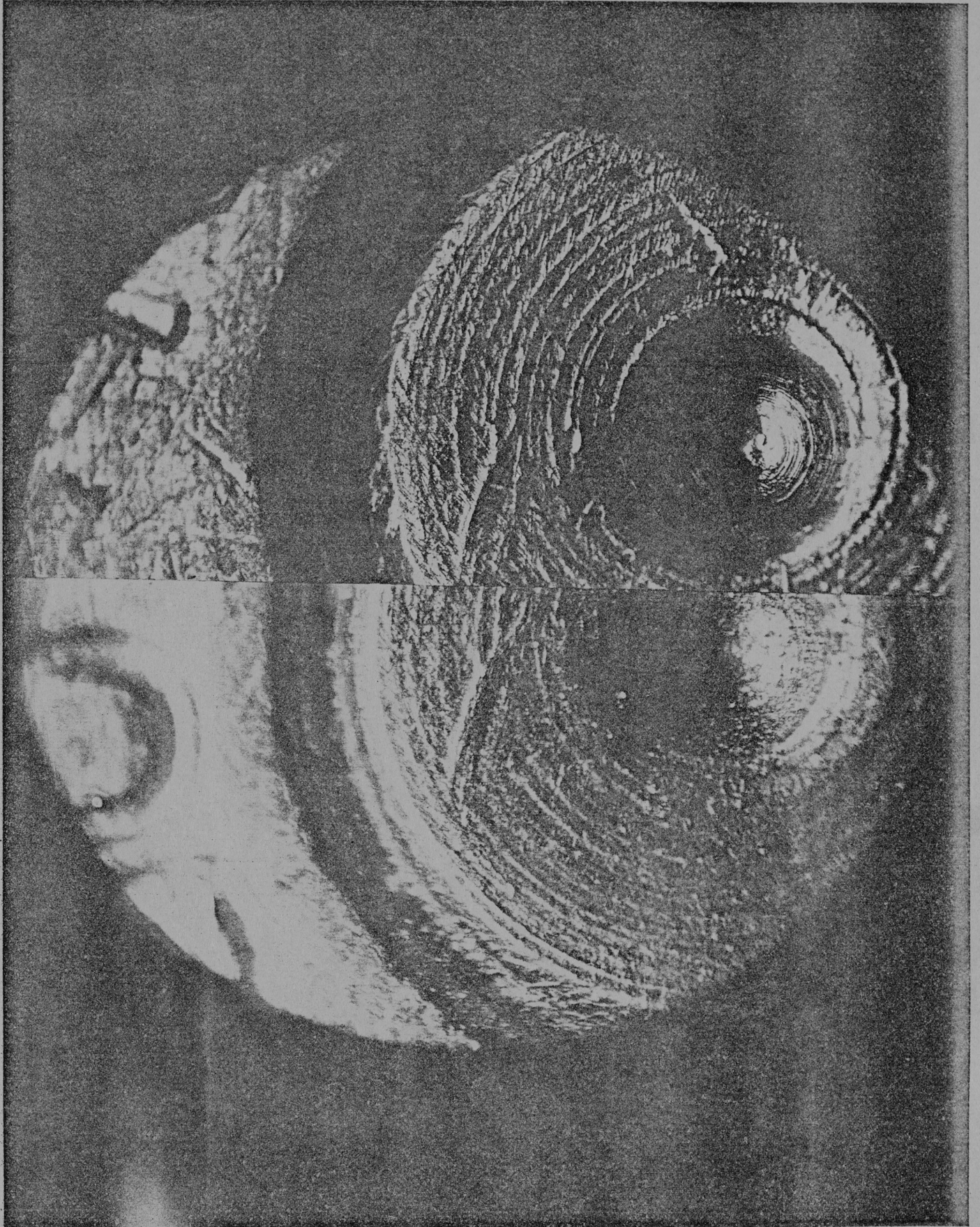




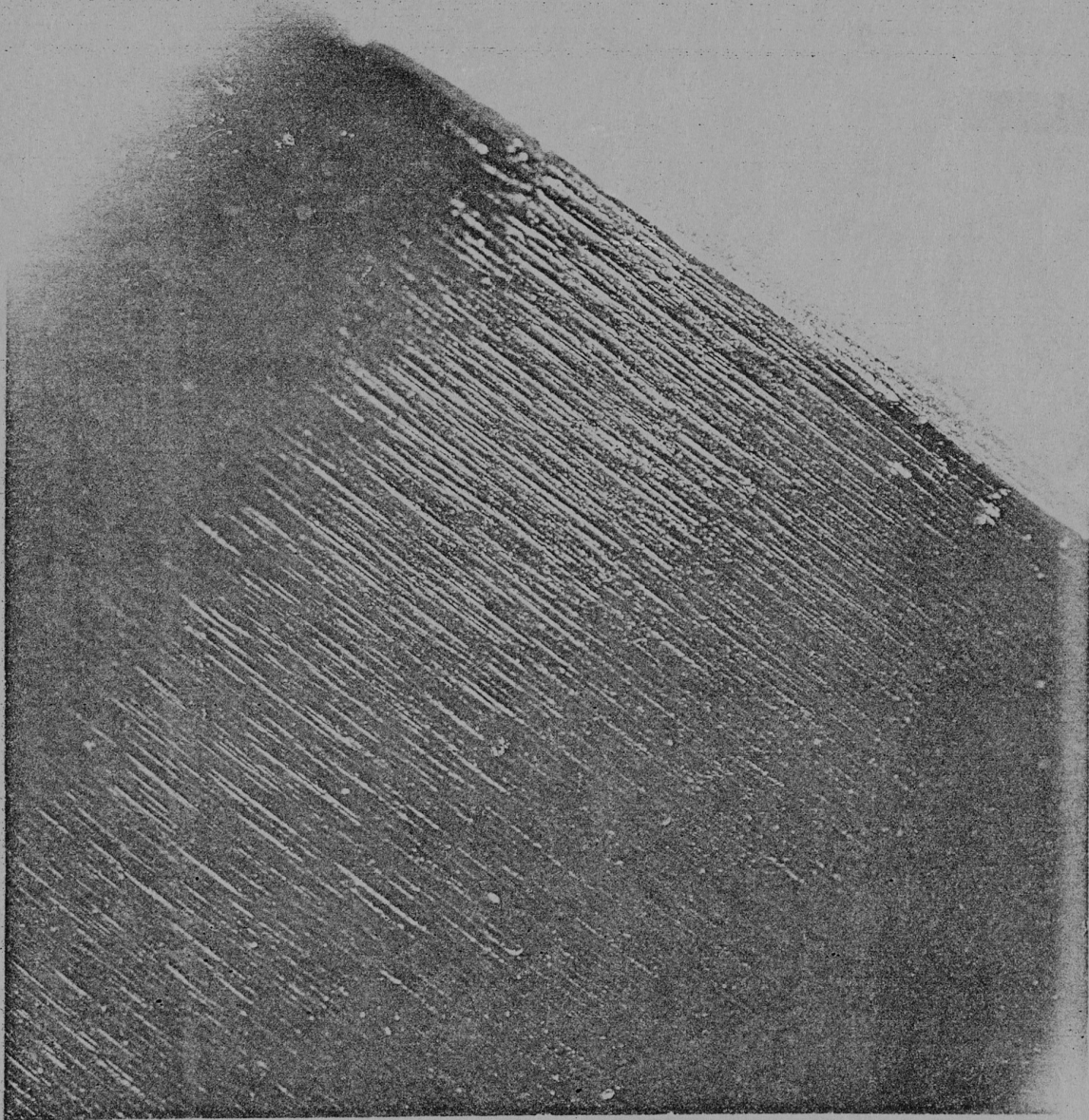
2025 RELEASE UNDER E.O. 14176

17-102
Xt wk



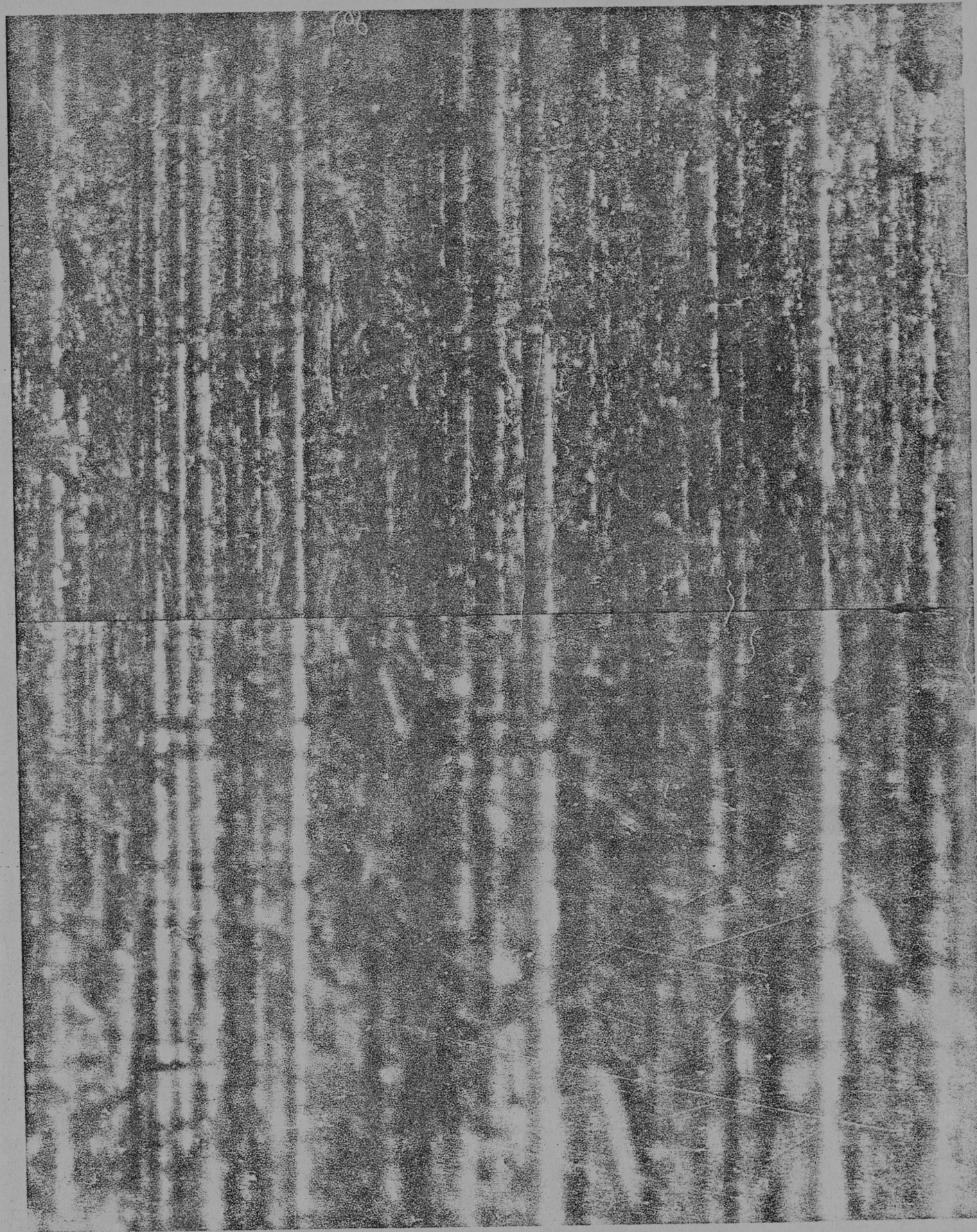


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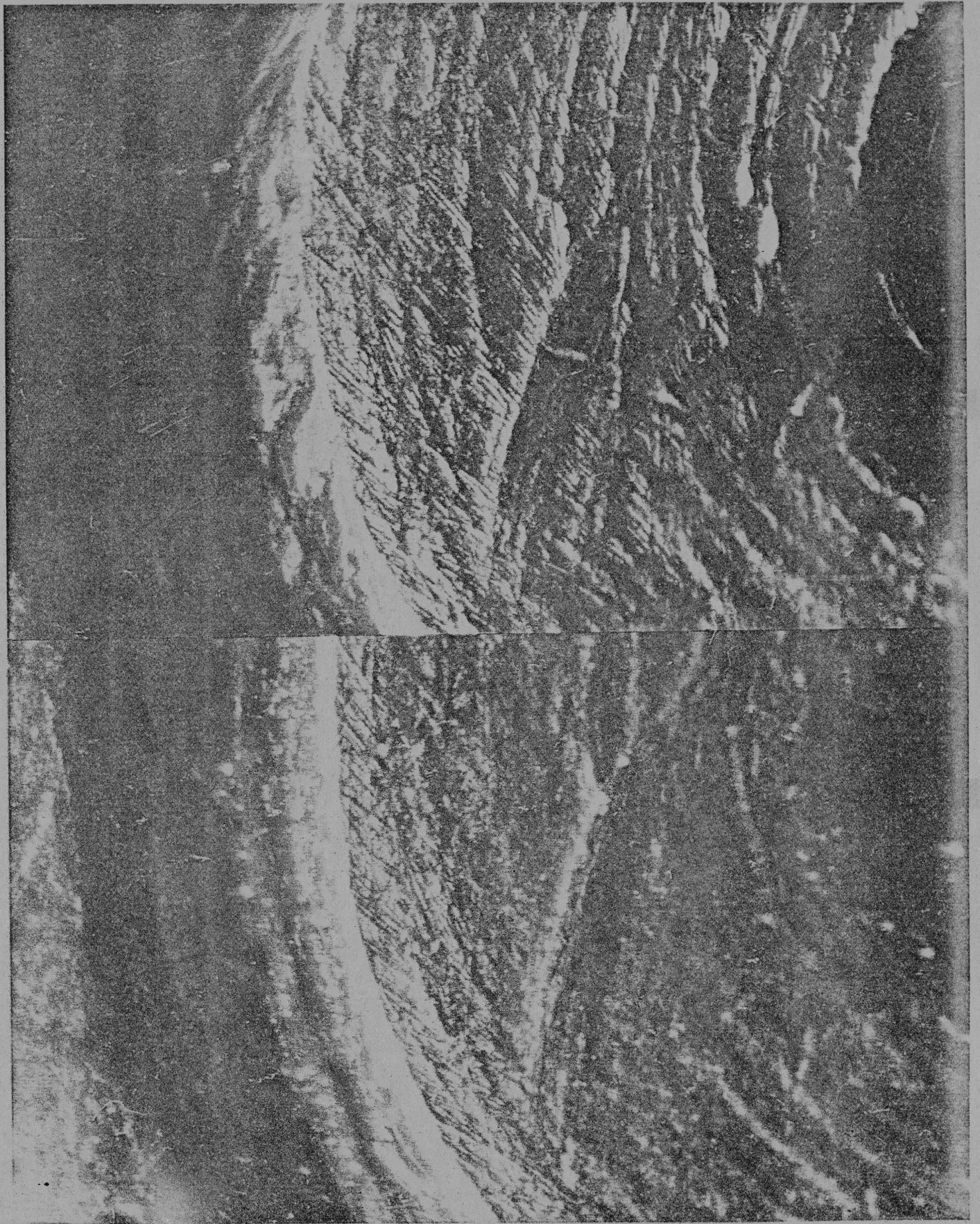


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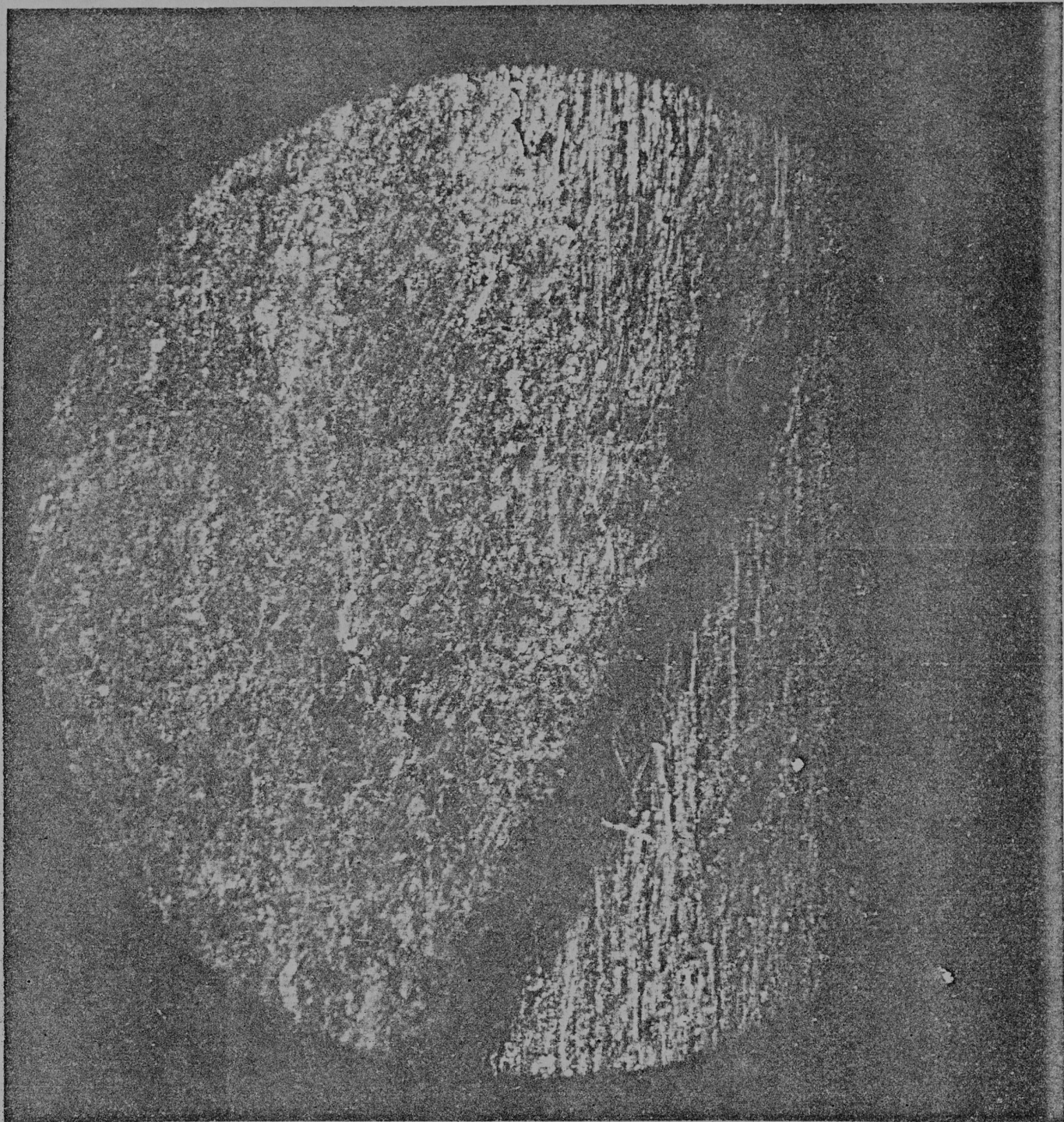
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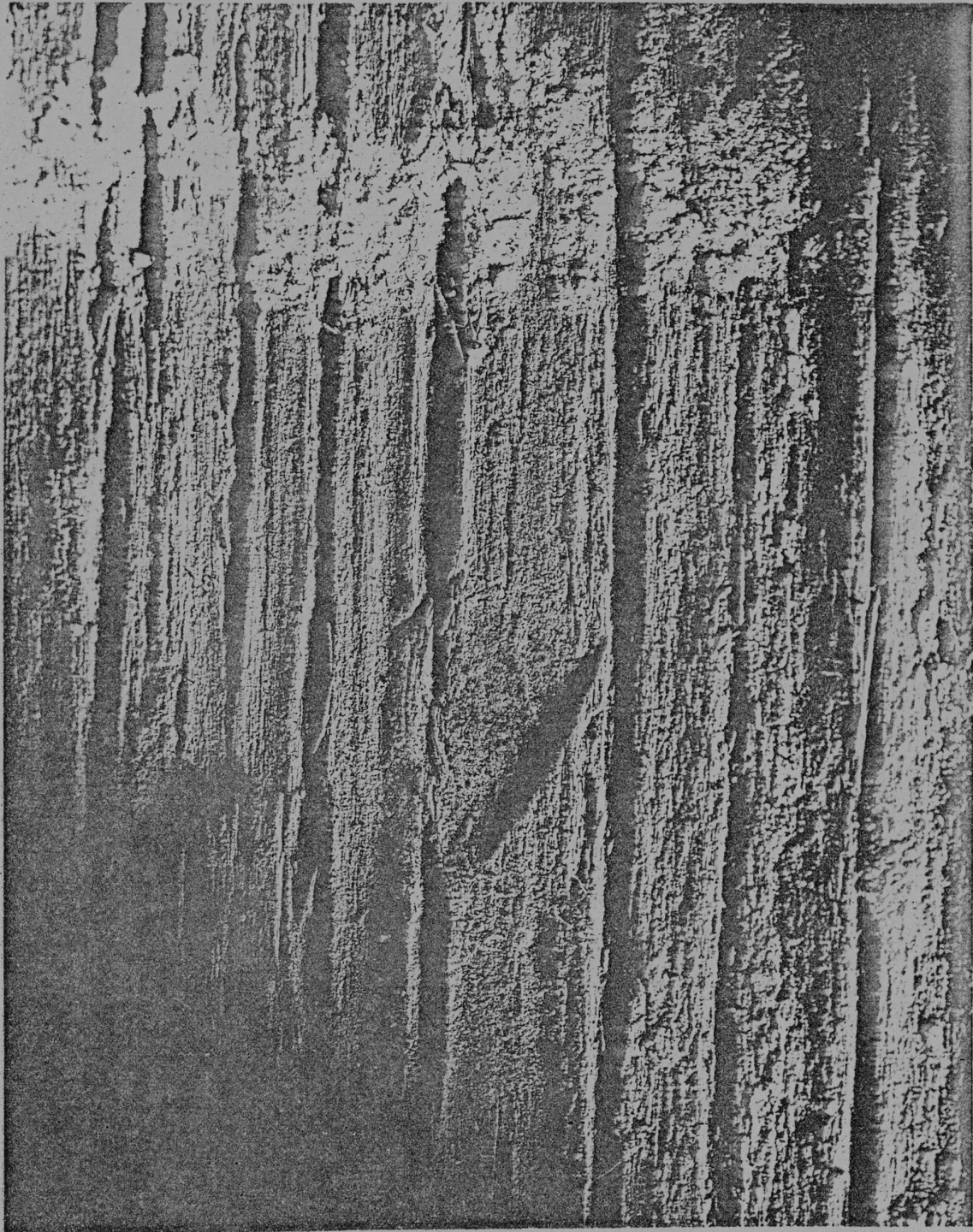
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