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PASSOLOGICAL EXPORMING REPORT

A63-272

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According to available information the decessed, President John F. Kennedy,

were riding in an open car in a motorcade during an official visit to Dallas, Texas on 22 November 1953. The President was sitting in the right rear sent with Mrs. we as november aros, and reasonable was selectly in front of the Reinfely coated on the same seat to his left. Sitting directly in front of the President was Governor John B. Compolly of Texas and directly in front of Mrs. Exemely STEERINGER WAS GOVERNOR JOHN B. COMMOLLY OF TEXAS AND GIFCCLIF IN FRONT OF ETS. Kern Set Mrs. Connolly. The vehicle was moving at a slow rate of speed down an incline into on underpass that leads to a freeway route to the Dallas Trade Hart therethe President was to deliver an address.

Three shots were heard and the President Sell forward bleeding from the head. (Governor Connolly was seriously wounded by the Sell Forward Bleeding from the Bead. (Governor Connolly was seriously wounded by the Cama gunfire.) According to newspaper reports ("Mashington Post" Hovember 23, 1963) Bob Jackson, a Dallas "Times Herald" Photographer, said be looked around as he beard the shot and saw a rifle barrel disappearing into a window on an upper floor of the parties. There School Rock Depository Building BOOKLY Texas School Book Depository Building.

Shortly following the wounding of the two men the car was driven to Parkland Hospital in Dallas. In the energency room of that men the car was driven to Farkiand Bospital in Dallas. In the emergency room of that hospital the President was attended by Dr. Halcolm Perry. Telephone communication with Br. Perry on Bovember 23, 1963 develops the following information relative to the observations made by Dr. Perry and procedures performed there prior to death.

Dr. Perry noted the massive wound of the bead and a second much smaller wound of the low anterior neck in approximately the wildline. A tracheostomy was performed by extending the latter wound. At this point bloody air was noted bubbling from the wound and an injury to the right lateral wall of the traches was observed. Incisions were made in the upper anterior chest wall bilecerally to combat possible subcutaneous emphysens. Intravenous infusions of blood and saline were begun and oxygen was administered. Despite these neasures cardiac sum saline were vegum and oxygen was summistered. Despite these neasures cardisc serion arrest occurred and closed chest cardiac massage failed to re-establish cardisc action. The President was pronounced dead approximately thirty to forty minutes after receiving his wounds.

The remains were transported wie the Presidential plane to Eashington, D.C. and subsequently to the Haval Medical School, Bational Maval Medical Center, Bethesda, Maryland for postmorten examination. The body is that of a muscular, well-

developed and well nourished adult Caucasian GENERAL DESCRIPTION OF BODY: cale measuring 72% inches and weighing approximately 170 pounds. There is beginning that the measuring 72% inches and weighing approximately 170 pounds. There is beginning that the downton and early alror mortis. The Figor mortis, minimal dependent liver mortis of the dorsum, and early alor mortis. I hair is reddish brown and abundant, the eyes are blue, the right pupil measuring 8 man abundant, the system of th in dissecter, the left 4 mg. There is edges and ecchymosis of the inner canthus region of the left eyelid measuring approximately 1.5 cm. in greatest diameter. There is educated the left eyelid measuring approximately 1.5 cm. in greatest diameter. and ecchynosis diffusely over the right supra-orbital ridge with abnormal mobility of the underlying bone. (The remainder of the scalp will be described with the skull.)

Constitution Exhibit No. 387

PATHOLOGICAL EXAMINATION REPORT

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There is elected blood on the external ears but otherwise the ears, mares, and mouth ears assentially unremarkable. The teeth are in excellent repair and there is some. paller of the oral mucous membrane.

Situated on the upper right posterior chorex just above the upper border of the scapula there is a 7 x 4 millimeter eval This wound is measured to be 14 cm. from the tip of the right acronion process and 14 cm. below the tip of the right mastoid process.

Situated in the low enterior neck at approximately the level of the third and fourth tracheal rings is a 6.5 cm. long transverse wound with widely gaping irregular edges. (The depth and character of these nounds wil be further described below.)

Situated on the anterior chest wall in the Edipple line are bilateral 2 cm. long recent transverse surgical incisions into the subcutaneous tissue. The one on the left is estuated II cm. cephalad to the nipple and the one on the right 8 cm. cephalad to the nipple. There is no hemorrhage or sechymosis associated with these wounds. A similar clean wound measuring 2 cm. in Bength is situated on the entero-lateral aspect of the left mid arm. Situated on the naturo-luceral aspect of each ankle is a recent 2 cm. transverse incision into the subcutamous tissue.

There is an old well healed 8 cm. McDurney abdominal incision. Over the lumbar spine in the midline is an old, well healed 15 cm. scar. Situated on the upper antero-lateral aspect of the right thigh is an old, well bealed 8 cm. scar.

## MISSILE MOUNDS:

1. There is a large irregular defect of the scalp and skull on the right involving

chiefly the parietal bone but extending somewhat into the temporal and occipital ragions. In this region there is an actual absence of scalp and bone producing & defect which measures approximately 13 cm. in greatest diameter.

From the irregular margins of the above analy defect tears extend in stellate fashion into the more or less intact scalp

- a. From the right inferior temporo-parietal margin enterior to the right ear to os Zollows: a point slightly above the tragus.
- b. From the anterior parietal margin enteriorly on the forehead to approximately 4 cm. above the right orbital ridge.
- c. From the left margin of the main defect across the midline antero-laterally for a distance of approximately & cm.
  - e. From the same starting point as c. 10 cm. postero-laterally.

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Bits 200 in the posterior scalp approximately 2.5 cm. laterally to the right and slightly shows the external occipital protuberance is a lacerated wound measuring 15 % sm. In the underlying bone is a corresponding wound through the skull which exhibits beveling of the margins of the bone when viewed from the inner aspect of the double.

Clearly visible in the above described levis shall defect and emiding from it is lacerated btain tissue which on close inspection proves to represent the major portion of the right cerebral hemisphere. At this point it is noted that the falm cerebri is extensively lacerated with discreption of the superior saggital simus.

Byon reflecting the scalp multiple complete. Stacture lines are seen to radiate from both the large defect at the vertex and the Gaslier wound at the occiput. These vary greatly in length and direction, the longest measuring approximately 19 cm. These result in the production of numerous fragments which very in size from a few millimeters to 10 cm. in greatest diameter.

The complexity of these fractures and the dragonous thus produced tex satisfactory verbal description and are better appreciated in photographs and roentgenograms which are prepared.

The brain is removed and preserved for

forther study following formalin fixation.

Received as separate specimens from Dallas, Texas one three fragments of skull bone which in aggregate roughly approximate the dimensions of the large defect described above. At one angle of the largest of these fragments is a portion of the perimeter of a roughly circular wound presumably of wit which exhibits beveling of the outer aspect of the bone and is estimated to measure approximately 2.5 to 3.0 cm. in dismeter. Roentgenograms of this fragment geveal admute particles of metal in the bone at this margin. Roentgenograms of the chull reveal multiple minute metallic fragments along a line corresponding with a line joining the above described small occipital wound and the right supra-orbital ridge. From the surface of the disrupted right cerebral cortex two small irregularly shaped fragments of metal are recovered. These measure 7 x 2 mm. and 3 x 1 mm. These are placed in the custody of Agents Francis X. O'Neill, Jr. and James W. Sibert, of the Weder Correspond of Investigation, who executed a receipt therefor (attached).

2. The second wound presumably of entry is that described above in the upper right posterior thorax. Beneath the skin there is eachyoosis of subcutaneous tissue and musculature. The missie path through the fascis and musculature cannot be easily probed. The wound presumably of exit was listed described by Dr. Melcola Perry of Dallas in the low anterior carvical region. They observed by Dr. Perry the wound measured "a few millimaters in dismeter", however it was extended as a tracheostomy incision and thus its character is distorted as the time of autopsy. However, there is considerable ecchymosis of the strap maches of the right side of the neck and of the fascia about the traches adjacent to the tracheostomy wound. The third point of reference in connecting

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PATHOLOGICAL EXAMINATION REPORT

shase two wounds is in the spex (supra-clavicular portion) of the Sight pleural eavity. In this region there is contusion of the parietal pleurs and of the extreme opical portion of the right upper lobe of the lung. In both instances the diameter of contusion and ecchymosis at the point of maximal involvement measures 5 cm. Both the vicewel and periotal plours are intact overlying these areas of troums.

CONTENESS.

The scalp wounds are extended in the coronal plane to examine the cranial content and the metoway (Y) shaped incision is used to exemine the body cavities.

SHOW ACTIC CAVITY:

The bony cage is unremarkable. The thoracic ergans are in their normal positions and relationships and there is no increase in free plaural fluid. The above described area of contusion is the spical portion of the right pleural cavity is noted.

155:53:

The lungs are of essentially similar appearance the right weighing 320 Gm., the 166% 290 Gm. The lungs are well serated with smooth glistening pleural surfaces and gray-pink color. A 5 cm. dismeter area of purplish red discoloration and increased firmers to pelpation is situated in the spical portion of the right upper lobe. This corresponds to the similar area described in the overlying parietal pleura. Incluies in this region reveals recent henorrhage into pulmonary parenchyma.

The pericardial cavity is smooth walled and contains approximately 10 cc. of strawcolored fluid. The heart is of essentially normal external contour and weighs 350 Cm. The pulmonary artery is opened in situ and no abnormalities are noted. The cardiac chambers contain moderate amounts of postmorten clotted blood. There are no gross absornalities of the leaflets of any of the cardiac valves. The following are the efreumferences of the cardiac valves: sortic 7.5 cm., pulmonic 7 cm., tricuspid 22 cm., mitral 11 cm. The myocardium is firm and reddish brown. The left ventricular syncerdium evereges 1.2 cm. in thickness, the right ventricular myocardium 0.4 cm. The coronary arteries are dissected and are of normal distribution and smooth walled end classic throughout.

ARDONOMAL CAVITY:

The abdominal organs are in their normal positions and relationships and there is no increase in free peritoneal fluid. The vermiform appendix is surgically absent and there are a few adhesions joining the region of the comm to the ventral ab-Gowine will at the above described old abdominal incisional scar.

SETTLE 241. SYSTEM

Aside from the above described shull wounds there are no significant gross skeletal

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PROMORAPHY:

Black and white and color photographs depicting significant findings are exposed but not developed. These photographs were placed in the custody of Agent Roy H. Rollarman of the U. S. Secret Service, who executed a receipt therefore (attached).

PATEOLOGICAL EXCITNATION REPORT

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POENTGENOCIANS:

Roentgenograms are made of the entire body and of the separately submitted three fragments of skull bone. These are developed and were placed in the custody of Agrant Roy H. Kellerman of the U. S. Secret Service, who executed a receipt therefor

STRAKETS

(<u>ન</u>ફકુગ્રહ**ેનલી**) .

Based on the above observations it is our epinion that the deceased died as a result of two perforating gunshot wounds inflicted by high velocity projectiles fired by a person or persons unknown. The projectiles were fired from a point behind and somewhat above the level of the deceased. The observations and available information 'do not permit a satisfactory estimate as to the sequence of the two wounds.

The fatal missile entered the shall about and to the right of the external occipital protuberance. A portion of the projectile and to the right of the external occipital protuberance. A portion of the projection traversed the cranial cavity in a posterior-anterior direction (see lateral chall coentgenograms) depositing minute particles along its path. A portion of the pre-jectile made its exit through the particle bone on the right carrying with it portions of cerebrum, skull and scalp. The two wounds of the skull combined with the force of the missile produced extensive fragmentation of the skull, laceration of the superior saggital simus, and of the right cerebral bemisphere.

The other missile entered the right superies posterior thorax above the scapula and traversed the soft tissues of the supra-scapwhat and the supra-clavicular portions of the base of the right side of the neck. This missile produced contusions of the right spical parietal pleurs and of the spical portion of the right upper lobe of the lung. The missile contused the strap muscles of the right side of the neck, damaged the traches and made its exit through the anterior surface of the neck. As far as can be ascertained this missile struck no bony structures in its path through the body.

In addition, it is our opinion that the wound of the skull produced such extensive damage to the brain as to precises the possibility of the deceased surviving this injury.

A supplementary report will be submitted Sollowing more detailed examination of the brain and of microscopic sections. However, it is not anticipated that these examinations will materially elter the findings.

Likumes J. RONES MC, USM (497831)

TROUBTON BOSIELL DR. MC. RISK (489878) ER COL, MC. (04-043-322)