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REPORT-SCIENCE

BY LARRY OSIUS

ASSOCIATED PRESS WRITER

WASHINGTON, SEPT. 28 (AP)-THE DISTINCT CHARACTERISTICS OF HUMAN HAIR AND MANMADE FIBERS HELPED THE WARREN COMMISSION DECIDE LEE HARVEY OSWALD WAS PRESIDENT KENNEDY'S ASSASSIN.

SO, TOO, DID THE FACT THAT A RIFLE LEAVES DISTINCTIVE MARKINGS ON BULLETS FIRED FROM IT, THAT NO TWO SETS OF FINGER AND PALM PRINTS ARE ALIKE AND THAT DIFFERENT TYPES OF BULLETS ACT DIFFERENTLY BEFORE AND AFTER STRIKING AN OBJECT.

THESE WERE JUST SOME OF THE FACTORS DEVELOPED BY FBI AND OTHER SPECIALISTS IN A SERIES OF TESTS UNKNOWN, FOR THE MOST PART, TO CRIMINAL DETECTION EXPERTS OF 100 YEARS AGO.

FBI FIBERS EXPERT PAUL STONBAUGH, FOR INSTANCE, STUDIED OSWALD'S SHIRT, THE BLANKET IN WHICH OSWALD HAD KEPT THE ASSASSINATION RIFLE, THE RIFLE ITSELF AND THE HOMEMADE PAPER BAG IN WHICH OSWALD HAD CARRIED IT INTO THE TEXAS SCHOOL BOOK DEPOSITORY BUILDING.

BY MICROSCOPIC EXAMINATION HE FOUND:

- HUMAN HAIRS ON THE BLANKET WHICH MATCHED OSWALD'S HAIR.
- FIBERS IN THE PAPER SACK WHICH MATCHED THOSE OF THE BLANKET.
- FIBERS LODGED IN THE BUTT PLATE OF THE RIFLE WHICH MATCHED THOSE OF THE SHIRT OSWALD WAS WEARING WHEN ARRESTED.

ANOTHER EXPERT FOUND BY SPECTROSCOPIC AND MICROSCOPIC ANALYSIS THAT THE PAPER AND TAPE IN THE SACK WAS OF THE SAME KIND AVAILABLE IN THE MAILING ROOM OF THE DEPOSITORY.

FBI BALLISTIC EXPERTS TESTED THE GUN FOUND ON THE SIXTH FLOOR OF THE BUILDING. THEY ESTABLISHED BY MARKINGS ON THREE SHELL CASES NEARBY AND ON A BULLET FOUND ON GOV. JOHN B. CONNALLY'S STRETCHER AND FRAGMENTS OF A BULLET OR BULLETS FOUND IN THE LIMOUSINE THAT IT WAS THE ASSASSINATION WEAPON.

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FINGERPRINT EXPERTS FOUND OSWALD'S PALM PRINT ON THE GUN, AND FINGER AND PALM PRINTS ON THE PAPER SACK AND CARTONS WHICH HAD BEEN MOVED CLOSE TO THE WINDOW.

IN AN ATTEMPT TO CLEAR UP UNCERTAINTIES ABOUT HOW MANY AND WHICH SHOTS HIT KENNEDY AND CONNALLY, THE COMMISSION TURNED TO THE WOUND BALLISTICS BRANCH OF THE ARMY CHEMICAL RESEARCH AND DEVELOPMENT LABORATORIES AT EDGEWOOD ARSENAL, MD.

PATHOLOGISTS THERE, USING THE MURDER RIFLE AND THE SAME KIND OF AMMUNITION--AS WELL AS OTHER TYPES FOR COMPARISON PURPOSES--FIRED SHOTS INTO GELATIN BLOCKS, ANIMAL MEAT, LIVE ANIMALS AND REPLICAS OF HUMAN SKULLS.

AMONG OTHER THINGS, THEY FOUND THAT ONE BULLET HAD THE VELOCITY AND OTHER CHARACTERISTICS TO HIT KENNEDY IN THE BACK, COME THROUGH HIS THROAT, STRIKE CONNALLY IN THE BACK, PROCEED THROUGH HIS CHEST AND WRIST AND LODGE IN HIS THIGH.

COMMISSION INVESTIGATORS RESORTED TO OLD-FASHIONED PLANE GEOMETRY IN PLOTTING, THROUGH REENACTMENT, THE PROBABLE ORIGIN, TIME SEQUENCE AND TRAJECTORY OF THE SHOTS IN RELATION TO THE MOVING LIMOUSINE AND THE POSITIONS OF KENNEDY AND CONNALLY. THIS WAS MADE POSSIBLE BY HOME MOVIES OF THE ASSASSINATION TAKEN BY THREE AMATEURS FROM DIFFERENT LOCATIONS.

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