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PETITIONER'S EXHIBIT #23
Acid Phosphatase notes

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STATE CRIME LABORATORY

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Number 3 Natural Resources Drive
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DIS

Laboratory Services
227-5747

REPORT OF LABORATORY ANALYSIS

Medical Examiner
227-5936

Investigating Officer/Agency/Address

Sgt. Mark Allen
West Memphis Police Department
100 Court Street
West Memphis, AR 72301

Laboratory Case Number: 93-05716

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Suspect(s):



Victim(s):
James Michael Moore
Steve Edward Branch
Christopher Mark Byers

Date of Report: 06/29/93

ITEMS SUBMITTED FOR EXAMINATION FROM THE MEDICAL EXAMINER'S OFFICE ON MAY 7, 1993:

- FP1: One (1) fiber taken from the hand of the victim
- FP2: Left hand nail scrapings from the victim
- FP3: Right hand nail scrapings from the victim
- FP4: Pulled head hairs from the victim
- FP5: One (1) package of shaved head hair from the victim
- FP6: One (1) package containing ligatures from the wrists of the legs from the right and left sides of the victim
- FP7: Combed head hair from the victim

ITEMS SUBMITTED FOR EXAMINATION FROM THE WEST MEMPHIS POLICE DEPT. ON MAY 7, 1993:

- E1: One (1) blue boy scout shirt
- E2: One (1) black and white shirt with a square pattern.
- E3: One (1) pair of blue pants
- E4: One (1) white tennis shoe (right)
- E5: One (1) blue and yellow cub scout cap
- E6: One (1) black shoe (left) with a purple interior
- E7: One (1) pair of blue jeans with a blue wallet
- E8: One (1) black shoe (right) with a purple interior
- E9: One (1) striped shirt with a surf board design
- E10: One (1) pair of child's underwear
- E11: One (1) white tennis shoe (left)
- E12: One (1) black shoe (right) with one (1) white sock, size 3
- E13: One (1) pair of blue jeans
- E14: One (1) black shoe (left) size 3
- E17: One (1) wooden stick found at the scene

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ADD 1790

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ITEMS SUBMITTED BY WEST MEMPHIS POLICE DEPT. ON MAY 10, 1993:

- E19: One (1) brown bag containing one (1) hook and one (1) piece of rope found at the scene
- E20a: Pulled head hair from King David Samuel Beasley
- b: Pulled pubic hair from King David Samuel Beasley
- BR1: One (1) pair of blue jeans
One (1) black thermal undershirt
One (1) pair of white socks
Two (2) "Bic" razors
One (1) plastic bag
One (1) tan short-sleeved shirt
- BR2: One (1) blue striped pull-over shirt
One (1) pair of blue jeans
- BR3a: Pulled head hair from Gary Ray Chadwick
- b: Pulled pubic hair from Gary Ray Chadwick
- BR4: One (1) white T-shirt with a beer logo
One (1) pair of tan corduroy pants
- BR5a: Pulled head hair from John Winters
- b: Pulled pubic hair from John Winters

ITEMS SUBMITTED BY WEST MEMPHIS POLICE DEPT. ON MAY 11, 1993:

- E22a: Pulled head hair from Damien Wayne Echois
- b: Pulled pubic hair from Damien Wayne Echois

ITEMS SUBMITTED BY MEDICAL EXAMINER'S OFFICE ON MAY 11, 1993:

- FP8: One (1) white sheet

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ITEMS SUBMITTED BY WEST MEMPHIS POLICE DEPT. ON MAY 12, 1993:

- E23: One (1) knife with a scabbard
- E24: One (1) blue handled ice axe

ITEMS SUBMITTED BY WEST MEMPHIS POLICE DEPT. ON MAY 13, 1993:

- E25: One (1) tire billy
- E26: One (1) boot knife in a leather sheath
- E27: One (1) red pocket knife
- E28: One (1) butterfly knife
- E29: One (1) wooden handled hammer
- E30: One (1) blue handled hammer
- E31: One (1) blue and brown handled hammer
- E32: Pulled pubic hairs from Kenneth Cagle
- E33a: Pulled head hair from Richard Gordon Cummings, Jr.
- b: Pulled pubic hair from Richard Gordon Cummings, Jr.
- E34: Pulled head hairs from Det. B. Ridge
- E35a: Pulled head hairs from Tim Dodson
- b: Pulled pubic hairs from Tim Dodson
- E36a: Pulled head hairs from Thomas Polletta
- b: Pulled pubic hairs from Thomas Polletta
- E37a: Pulled head hairs from Robert Burch
- b: Pulled pubic hairs from Robert Burch
- E38a: Pulled head hairs from Steven Skaggs
- b: Pulled pubic hairs from Steven Skaggs
- E39a: Pulled head hairs from David Shane Wren
- b: Pulled pubic hairs from David Shane Wren
- E40a: Pulled head hairs from Bruce Strickland
- b: Pulled pubic hairs from Bruce Strickland

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ITEMS SUBMITTED BY WEST MEMPHIS POLICE DEPT. ON MAY 13, 1993 (CONT.):

- E41: One (1) paper sack containing a nylon sack possessing:
 - Three (3) metal balls
 - One (1) claw hammer with a missing claw
 - One (1) pocket knife
- E43a: Pulled head hairs from Daniel Lefler
- b: Pulled pubic hairs from Daniel Lefler
- E44a: Pulled head hairs from William Welch
- b: Pulled pubic hairs from William Welch
- E45a: Pulled head hairs from Tracy Laxton
- b: Pulled pubic hairs from Tracy Laxton
- E46a: Pulled head hairs from Robert Deangelo
- b: Pulled pubic hairs from Robert Deangelo
- E47a: Pulled head hairs from Jerry Nearns
- b: Pulled pubic hairs from Jerry Nearns
- E48a: Pulled head hairs from Lynn Lucas
- b: Pulled pubic hairs from Lynn Lucas
- E49: One (1) piece of aluminum wire from the scene

ITEMS SUBMITTED BY WEST MEMPHIS POLICE DEPT. ON MAY 19, 1993:

- E50a: Pulled head hairs from Anthony Barnes
- b: Pulled pubic hairs from Anthony Barnes
- E51a: Pulled head hairs from Charles P. Morton
- b: Pulled pubic hairs from Charles P. Morton
- E52a: Pulled head hairs from Joe W. Gooch
- b: Pulled pubic hairs from Joe W. Gooch
- E53a: Pulled head hairs from Michael Headlee
- b: Pulled pubic hairs from Michael Headlee

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ITEMS SUBMITTED BY WEST MEMPHIS POLICE DEPT. ON MAY 19, 1993 (CONT.):

- E54a: Pulled head hairs from David Looney
- b: Pulled pubic hairs from David Looney
- E55a: Pulled head hairs from Lance Renshaw
- b: Pulled pubic hairs from Lance Renshaw
- E56a: Pulled head hairs from James Martin
- b: Pulled pubic hairs from James Martin
- E57: One (1) knife found near the scene
- E58: One (1) knife recovered from Michael Headlee
- E59: One (1) knife found on walker near the bayou

ITEMS SUBMITTED BY WEST MEMPHIS POLICE DEPT. ON MAY 24, 1993:

- BR6: One (1) shirt from Steve Menard
- BR7: One (1) pair of shoes from Steve Menard
- BR8a: Pulled head hairs from Steve Menard
- b: Pulled pubic hairs from Steve Menard
- BR9: Fingernail clippings from Steve Menard
- BR10a: Pulled head hairs from John Mark Byers
- b: Pulled pubic hairs from John Mark Byers
- BR11a: Pulled head hairs from Roy Todd Moore
- b: Pulled pubic hairs from Roy Todd Moore
- E60a: Pulled head hairs from Thomas Holland
- b: Pulled pubic hairs from Thomas Holland
- E63a: Pulled head hairs from Christopher Morgan
- b: Pulled pubic hairs from Christopher Morgan

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ITEMS SUBMITTED BY WEST MEMPHIS POLICE DEPT. ON MAY 27, 1993:

- E64a: Pulled head hairs from L. G. Hollingsworth
- b: Pulled pubic hairs from L. G. Hollingsworth
- E66a: Pulled head hairs from Michael Leiter
- b: Pulled pubic hairs from Michael Leiter
- E68a: Pulled head hairs from Charles M. Craig
- b: Pulled pubic hairs from Charles M. Craig

ITEMS SUBMITTED BY WEST MEMPHIS POLICE DEPT. ON JUNE 7, 1993:

- E70a: Pulled head hairs from Damien Echols
- b: Pulled pubic hairs from Damien Echols

ITEMS SUBMITTED BY WEST MEMPHIS POLICE DEPT. ON JUNE 9, 1993:

- E72: One (1) green electric blanket, labelled as D1
- E73: One (1) pair of blue/green socks, labelled as D2
- E74: One (1) knife, labelled as D3
- E75: One (1) wooden handled knife, labelled as D4
- E76: One (1) purple house coat, labelled as D5
- E77: One (1) black leather pouch, labelled as D6
- E78: One (1) black Harley Davidson T-shirt, labelled as D7
- E79: One (1) blue Muscle Beach T-shirt, labelled as D8
- E80: One (1) blue short-sleeved Bonjour T-shirt, labelled as D9
- E81: One (1) long-sleeved purple shirt, labelled as D10
- E82: One (1) short-sleeved red and white striped pull-over shirt, labelled as D11
- E83: One (1) red bandanna, labelled as D12
- E84: One (1) book with candle wax, labelled as D13

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ITEMS SUBMITTED BY WEST MEMPHIS POLICE DEPT. ON JUNE 9, 1993 (CONT.):

- E85: One (1) black short-sleeved T-shirt, labelled as D14
- E86: One (1) purple short-sleeved T-shirt, labelled as D15
- E87: One (1) red sweater, labelled as D16
- E88: One (1) pink sheet, labelled as D17
- E89: One (1) black T-shirt, labelled as D18
- E90: One (1) black T-shirt with genstones painted on the front
- One (1) pair of black jeans
- One (1) red pull-over shirt
- One (1) black Rangers T-shirt (all E90 items labelled as D19)
- E91: One (1) pair of black boots with one (1) pair of white socks, labelled as D21
- E92: One (1) red and white striped pull-over shirt, labelled as D22
- E93: One (1) pair of green socks, labelled as D24
- E94: One (1) pair of black sweatpants, labelled as D25
- E95: One (1) pair of black Reebok tennis shoes, labelled as D26
- E96: Three (3) black Iron Maiden T-shirts
- One (1) black Motley Crue T-shirt
- Two (2) black Megadeth T-shirts
- Four (4) black Metallica T-shirts (all E96 items labelled as J2)
- E97: One (1) purple house coat, labelled as J3
- E98: One (1) blue house coat, labelled as J4
- E99: One (1) red house coat, labelled as J5
- E101: One (1) red throw rug, labelled as J7
- E102: One (1) blue pad cover
- One (1) pink wash cloth with animal teeth (all E102 items labelled as J8)
- E103: One (1) black shirt with a Batman emblem, labelled as J9
- E104: Three (3) pairs of black jeans
- One (1) pair of green jeans
- One (1) black vest with a zipper (all E104 items labelled as J10)

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ITEMS SUBMITTED BY WEST MEMPHIS POLICE DEPT. ON JUNE 9, 1993 (CONT.):

- E105: One (1) pair of white Nike tennis shoes, labelled as J11
- E106: One (1) black Megadeth T-shirt
One (1) black Testament T-shirt
One (1) black Iron Maiden T-shirt
One (1) black Metallica T-shirt
One (1) green raincoat (all E106 items labelled as J12)
- E107: One (1) pair of blue jeans
One (1) pair of shorts (all E107 items labelled as J13)
- E108: One (1) bar of soap with paint or wax, labelled as J14
- E109: Three (3) piece toilet seat cover, labelled as J15
- E110: One (1) pair of green boots, labelled as J16
- E111: One (1) folding knife, labelled as M1
- E112: One (1) purple bandanna
One (1) pair of black and orange shorts
One (1) pair of black shorts (all E112 items labelled as M2)
- E113: One (1) black head mask, labelled as M3
- E114: One (1) sleeveless grey T-shirt, labelled as M4
- E115: One (1) pair of blue jeans, labelled as M5
- E116: One (1) grey and red ball shirt
One (1) black Reba T-shirt
One (1) black Poison T-shirt
One (1) blue Dallas Cowboy's sweat shirt (all E116 items labelled as M6)
- E117: One (1) black British Knights sweat shirt
One (1) pair of black shorts
One (1) blue and grey pin-striped sleeveless shirt
One (1) black sleeveless Harley Davidson T-shirt (all items E117 labelled as M7)
- E118: One (1) green plaid long-sleeved shirt, labelled as M8
- E120: One (1) purple shirt
One (1) pair of red long johns (all E120 items labelled as M10)

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ITEMS SUBMITTED BY WEST MEMPHIS POLICE DEPT. ON JUNE 9, 1993 (CONT.):

- E122: One (1) pink blanket, labelled as DT1
- E124: One (1) blue candle, labelled as DT3
- E125: One (1) white rope, labelled as DT4
- E126: One (1) knife with a black leather sheath, labelled as DT5
- E127: Slides collected by myself during the searches from items corresponding to the D, J, M and DT items. Also included:
 - LS1: Hair removed from tree root at the crime scene
 - LS2: Tape lifts from the tree root at the crime scene
- E128: One (1) pair of black jeans
One (1) red T-shirt
One (1) pair of white socks
One (1) pair of white underwear
- E129: One (1) pair of black boots
- E131: One (1) black Metallica T-shirt
One (1) pair of grey jeans
One (1) black Chicago Bulls T-shirt
One (1) black Chicago Bulls ball cap
One (1) brown belt
One (1) pair of black shorts
One (1) pair of white underwear
- E132: Wooden slats recovered at the crime scene
- E133: One (1) folding knife
- E134: One (1) knife with a black leather sheath
- E135: One (1) knife

ITEMS EXAMINED AT WEST MEMPHIS POLICE DEPT. ON JUNE 4, 1993:

- E136: One (1) red and black bicycle
- E137: One (1) green and brown bicycle

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ITEMS SUBMITTED BY WEST MEMPHIS POLICE DEPT. ON JUNE 24, 1993:

E138: One (1) pair of black shoe laces
E139: One (1) pair of tennis shoes

RESULTS OF ANALYSIS:

Reference reports 93-05717 and 93-05718

Examination of the ligatures revealed two (2) pieces of black shoe string; one (1) each tied between the wrist and leg on the right and left side. The knots on the wrist and leg on the left side were both square knots. The knot on the wrist on the right side was a series of three (3) half hitches. The knot on the left on the right side was a series of four (4) half hitches.

Hair and fiber examinations were conducted on most of the submitted items.

A single black polyester fiber microscopically similar to those used in the construction of E78 was recovered from E134. Also recovered from E134 was a single blue polyester fiber microscopically similar to those used in the construction of E109.

A single green cotton fiber microscopically similar to those used in the construction of E79 was recovered from E3. Two (2) green polyester fibers microscopically similar to those used in the construction on E79 were recovered from E3 and E5.

Three (3) red cotton fibers microscopically similar to those used in the construction of E92 were recovered from E1, E3 and BR1.

A single red rayon fiber microscopically similar to those used in the construction of E99 was recovered from E2.

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