BY WILLIAM JOHNSON

	NO.	%
Z TWIST	22	9.09
S TWIST	220	90.91
TOTAL	242	

CORDAGE TWIST DIRECTION SHORT FORM

SITE NO: 18M01 PAGE 1 of ____

SITE NAME: HUGHES COMPONENT: LURAY COMPLEX

POTTERY TYPE: KEYSER CORD-MARKED

TEMPER TYPE: SHELL DECORATION/

SURFACE FINISH: CORD-MARKED DECORATIVE

TECHNIQUE :

Surface Cast No.	FS/FC. Number	Provenience	Twist Direction Z	S	Unk	COMMENTS
S-1	#4-2	N2E6 LVL 2		X(??)	SEE COMMENTS	THIS IS VERY BIZARRE: AT ONE EDGE OF CAST ARE TWO MEDIUM DIA. 2 SEGMENT CORDS — ONE MEDIUM-COARSE 3 SEGMENT CORD — AND (OR BEFORE) CLEAR FINE DIA CORDS WHICH ARE S TWIST BUT ARE AT CA. 60° ANGLE TO EACH OTHER — MANY SEGMENTS SEEM TO BE ENGAGEMENTS — BUT NOT CONSISTENTLY IN ONE DIRECTION. IN SHORT, THE FINE DIA. CORDS SEEM TO BE OSS TWINING, BUT DETAIL IT JUS SEEMS TO BE LAPPED PATTERN — COULD THIS OCCUR ON OTHE LESS DISTINCT PATTERNS ??
S-2			X			DISTORTED — ONLY TWO 3 SEGMENT ELEMENTS ARE DISTINCT — DEPENDING ON ANGLE ONE COULD APPEAR TO BE S - BOTH FAIRLY CERTAIN Z TWIST
S-3				X		MEDIUM - FINE DIA CORDS
S-4				X??		VERY DISTORTED — BUT ONE 4 SEGMENT ELEMENT SEEMS TO BE S TWIST & ONE 2 SEGMENT ELEMENT
S-5				X		FAINT — FINE DIA CORD
				X	✓	VERY DISTORTED — BUT TWO VERY FINE DIA 4 SEGMENT ELEMENTS ARE S - ANOTHER FAINT MEDIUM -
S-6	#4-1	N2E6		X	✓	ONLY DEEPER IMPRESSIONS PRESERVED — BUT MEDIUM-FINE DIA S TWIST ELEMENTS FINE DIA CORD IS S TWIST
S-7		LVL 1		X	✓	DISTORTED - MEDIUM DIA CORDS
S-8				X	✓	DISTORTED — MEDIUM TO MEDIUM-FINE DIA CORDS
S-9				X??	✓	VERY DISTORTED — ONE 2 SEGMENT ELEMENT IS S TWIST — ONLY QUESTION: IS IT ONLY C-M
S-10				X	✓	VERY DISTORTED BY PUDDLING — BUT ONE 4 SEGMENT ELEMENT IS S TWIST AS ARE OTHER SMOTHER ONE
S-11				X	✓	SOME DISTORTION MEDIUM, MEDIUM-FINE & FINE DIA CORDS
S-12				X	✓	FINE DIA CORDS
S-13				X	✓	VERY DISTORTED — ONLY ONE MEDIUM TO MEDIUM-COARSE CORD IS S TWIST
S-14				X	✓	FINE / VERY FINE DIA CORDS
S-15			X	↓		FINE DIA CORDS
S-16			↓	X	✓	VERY DISTORTED - BUT ONE FINE 4 SEGMENT ELEMENT IS S TWIST
S-17				↓		↓ ↓ ↓ ↓ ↓
S-18				X		FINE DIA. CORDS
S-19				X		MEDIUM - FINE DIA. CORDS
S-20				X		VERY DISTORTED — BUT ONE 4 SEGMENT ELEMENT IS S TWIST
S-21	#7-1	N2E12		X		FINE TO VERY FINE DIA CORDS
S-22		LVL 1		X?		VERY DISTORTED - LOTS OF FLOATING SEGMENTS — BUT ONE FAINT 4 SEGMENT ELEMENT SEEMS TO BE PRESE
S-23				X		VERY FAINT, FINE DIA. — SEVERAL 2 & 3 SEGMENT ELEMENTS — OTHER, LESS CON ING 2 SEG. ELE PRESEN
S-24				X		MEDIUM DIA CORDS
S-25				X		FINE DIA CORDS

CORDAGE TWIST DIRECTION SHORT FORM

SITE NO: 18Mo1 PAGE 2 of ____
SITE NAME: HUGHES COMPONENT: LURAY COMPLEX
POTTERY TYPE: KEYSER CORD-MARKED
TEMPER TYPE: SHELL DECORATION/
SURFACE FINISH: CORD-MARKED DECORATIVE
TECHNIQUE :

Surface Cast No.	FS/FC. Number	Provenience	Twist Direction Z	S	Unk	COMMENTS
S-26	#7-1	N2E12 LVL 1		X		VERY DISTORTED — BUT ONE FINE DIA 4 SEGMENT ELEMET IS S TWIST
S-27				X		DISTORTED — ONE 3 SEGMENT ELEMENT IS S TWIST
S-28					X	VERY FAINT & DISTORTED BY SMOOTHING — A COUPLE OF VAGUE SEGMENTS SUGGEST S TWIST — BUT NOT QUITE DEFINITE
S-29				X		SOME DISTORTION — VERY FINE DIA CORDS
S-30				X		MEDIUM-FINE & FINE DIA. CORDS
S-31				X		MEDIUM-FINE & FINE DIA, CORDS
S-32				X		FINE DIA. CORDS
S-33				X		VERY DISTORTED BY SMOOTHING — BUT ONE 4 SEGMENT CORD IS DEFINITELY S TWIST
S-34				X		MEDIUM-FINE & FINE DIA. CORDS
S-35				X		VERY DISTORTED ON ONE THIRD — BUT REST ARE MULTIPLE (UP TO 5 SEGMENT) FINE DIA S TWIST CORDS
S-36	#6-1	N2E10	X			FINE & OCCAS MEDIUM-FINE CORDS
S-37		LVL 1		X?		VERY DISTORTED FROM PUDDLING — ONE & PROBABLY A 2ND 3 SEGMENT ELEMENTS SEEM TO BE S TWIST
S-38				X		ALMOST SMOOTH - BUT ONE 4 SEGMENT, ONE 3 AND TWO 2 SEGMENT ELEMENTS ARE S TWIST-MED.-COARSE, MED &
S-39				X		VERY DISTORTED & SLIGHTLY CONFUSING PATTERN — BUT THREE SHORT 2 SEGMENT SECTIONS OF LONGER ELEMENTS ARE S TWIST — MED-FINE DIA CORD
S-40				X		MEDIUM TO MEDIUM-FINE DIA. ELEMENTS
S-41				X		MEDIUM-COARSE DIA. CORDS
S-42				X		VERY FAINT & DISTORTED - BUT SEVERAL 2 & 3 SEGMENT ELEMENTS ARE IN S TWIST CONFIGURATION
S-43				X		MEDIUM-FINE & FINE DIA CORDS
S-44				X		DISTORTED — FINE DIA. CORDS
S-45				X		DISTORTED — BUT SEVERAL SHORT FINE DIA S TWIST ELEMENTS PRESENT
S-46				X		SLIGHTLY DISTORTED — MEDIUM FINE TO FINE DIA. CORDS.
S-47				X		MEDIUM FINE DIA CORDS
S-48				X		DISTORTED — MEDIUM-FINE & SOME FINE DIA CORDS
S-49			X			VERY DISTORTED - BUT TWO 2 SEGMENT SECTIONS OF DISTORTED LONGER ELEMENTS SEEM TO BE Z TWIST (SIDES OF CORD IMPRESSIONS — BOTTOMS)
S-50			X			DISTORTED — FINE DIA CORDS

3/21

CORDAGE TWIST DIRECTION SHORT FORM

SITE NO: 18M01 PAGE 3 of ____
SITE NAME: HUGHES COMPONENT: LURAY COMPLEX
POTTERY TYPE: KEYSER CORD-MARKED
TEMPER TYPE: SHELL DECORATION/
SURFACE FINISH: CORD-MARKED DECORATIVE
TECHNIQUE :

Surface Cast No.	FS/FC. Number	Provenience	Twist Direction Z	S	Unk	COMMENTS
S-51	#228-1	N8 E112 LVL 1		X		SOME DISTORTION FINE DIA. CORDS
S-52				X		SOME DISTORTION MEDIUM-FINE & FINE DIA CORDS
S-53				X		SOME DISTORTION MEDIUM-FINE + FINE DIA CORDS
S-54				X		DISTORTED — MEDIUM-FINE DIA CORDS
S-55				X		VERY DISTORTED — ESSENTIALLY SMOOTH EXCEPT FOR ONE 5 SEGMENT FINE S TWIST CORD
S-56				X		VERY DISTORTED — BUT TWO 3 SEGMENT ELEMENTS ARE S TWIST
S-57				X		ALMOST OBLITERATED EXCEPT FOR ONE VERY FINE 4 SEGMENT S TWIST CORD
S-58				X ??		VERY DISTORTED + SMALL CAST — BUT ONE, CA. 4 SEGMENT ELEMENT SEEMS TO BE S TWIST (AT LEAST 2 SUCCESSIVE SEGMENT
S-59				X		SMALL CAST + SLIGHTLY CONFUSING PATTERN — BUT SEEMS TO BE ONLY S TWIST C-M - MED.-FINE + FINE DIA CORDS
S-60				X		SMALL CAST, VERY FAINT/DISTORTED + FINE DIA CORDS — BUT SEVERAL ELEMENTS SEEM TO BE S TWIST
S-61				X		DISTORTED — FINE DIA. CORDS
S-62	#232-1	N10E6 LVL 1		X		FINE DIA. CORDS
S-63			X			FINE DIA. CORDS
S-64				X		VERY DISTORTED BUT ONE MULTI-SEGMENT ELEMENT IN CENTER + TWO LONGER ONES AT ONE EDGE ARE S TWIST - FINE DIA CORDS
S-65				X		FINE DIA. CORDS
S-66				X		VERY DISTORTED — BUT ONE 4 SEGMENT + ONE V. DISTORTED 3 TO 4 SEGMENT ELEMENTS ARE S TWIST
S-67				X		DISTORTED — MEDIUM TO MEDIUM-FINE DIA. CORDS
S-68				X		DISTORTED — MEDIUM-FINE DIA CORDS
S-69					X	DISTORTED — BUT VERY CONFUSING PATTERN — LOTS OF CLOSELY PACKED SEGMENTS — ONLY ONE SET SUGGESTS S TWIST ELEMENT
S-70				X		DISTORTED — FINE DIA. CORDS BUT OTHER SEGM. SUCCESSIVE SEGM. ARE MODERATELY
S-71				X		SLIGHTLY DISTORTED — MEDIUM + MEDIUM-FINE DIA. CORDS
S-72				X		VERY DISTORTED EXCEPT FOR ONE 3 SEGMENT S TWIST ELEMENT — MEDIUM-FINE DIA. CORD
S-73				X		DISTORTED — FINE DIA. CORDS
S-74				X		VERY FAINT — AND DISTORTED — BUT ONE EXCEEDINGLY FINE 4 SEGMENT ELEMENT IS S TWIST
S-75				X		SOME DISTORTION MEDIUM-FINE + MEDIUM DIA CORDS
S-76				X		MOST OF IMPRESSIONS OBLITERATED — BUT ONE 4 + ONE 3 SEGMENT ELEMENTS ARE S TWIST MEDIUM-FINE TO FINE DIA CORDS

INCIDENTL ALMOST CERTAINLY NOT FROM SAME VESSEL

1/24

CORDAGE TWIST DIRECTION SHORT FORM

SITE NO: 18Mo1 PAGE 4 of ____
SITE NAME: HUGHES COMPONENT: LURAY COMPLEX
POTTERY TYPE: KEYSER CORD-MARKED
TEMPER TYPE: SHELL DECORATION/
SURFACE FINISH: CORD-MARKED DECORATIVE
TECHNIQUE :

Surface Cast No.	FS/FC. Number	Provenience	Twist Direction Z	S	Unk	COMMENTS
S-77	#232-1	N10E6 LVL 1		X		DISTORTED — ONE 4 SEGMENT ELEMENT IS S TWIST — 2ND 3 SEGMENT ELEMENT SEEMS TO BE S TWIST
S-78	↓	↓	X	X		LONG PARALLEL & DISTINCT Z & S TWIST ELEMENTS — ALMOST CERTAINLY ONLY C-M — FINE DIA. CORDS
S-79	↓	↓		X		VERY DISTORTED — BUT THREE 3 SEGMENT FAINT ELEMENTS ARE S TWIST — FINE DIA CORDS
S-80	↓	↓		X??		VERY DISTORTED — 2 SHORT (2 SEGMENT) SECTIONS OF LONGER ELEMENTS SEEM TO BE S TWIST.
S-81	#236-1	N10E14			X	VERY DISTORTED & FAINT — LOTS OF FLOATING SEGMENTS — 3 VAGUELY LINE UP IN S TWIST CONFIG. — BUT TOO MUCH GOING ON TO BE CERTAIN
S-82	↓	LVL 1	X			VERY DISTORTED FROM PUDDLING/SMOOTHING — ONE 3 & ONE 4 COARSE DIA ELEMENTS SEEM TO BE Z TWIST
S-83	↓	↓		X		VERY DISTORTED — BUT SEVERAL 3 & 2 SEGMENT SECTIONS OF MUCH LONGER (C-M) ELEMENTS ARE S TWIST — FINE DIA. CO
S-84	↓	↓		X		DISTORTED — MEDIUM-FINE & FINE DIA CORDS
S-85	↓	↓		X		DISTORTED — MEDIUM-FINE DIA. CORDS
S-86	↓	↓		X		VERY DISTORTED — BUT ONE 4 SEGMENT ELEMENT IS S TWIST — OTHER FAINTER LINES SEEM TO BE S TWIST — MED-FINE DIA C
S-87	↓	↓		X		VERY DISTORTED — BUT ONE 3 SEGMENT & TWO 2 SEGMENT ELEMENTS ARE S TWIST — FINE DIA CORDS
S-88	↓	↓		X		DISTORTED — FINE DIA CORDS
S-89	↓	↓		X		DISTORTED — BUT SEVERAL LONG S TWIST ELEMENTS — FINE - DIA. CORDS —
S-90	↓	↓		X??		SMALL CAST, CONFUSING PATTERN & MEDIUM-COARSE & COARSE DIA CORDS — DEFINITELY S TWIST — BUT ONLY C-M ???
S-91	#234-1	N10E10		X		VERY FINE DIA CORDS
S-92	↓	LVL 1		X		DISTORTED — BUT DEFINITELY S TWIST — FINE DIA CORDS
S-93	↓	↓	X			DISTORTED — BUT ONE 4-5 SEGMENT ELEMENT & ONE FAINTER 3 SEGMENT ELEMENT ARE Z TWIST — MEDIUM-FINE DIA. CO
S-94	↓	↓	X???			SEVERLY DISTORTED FROM PUDDLING — TWO V. FAINT 2 & 3 SEGMENT ELEMENTS SEEM TO BE Z TWIST — BUT SHAKY
S-95	↓	↓		X		DISTORTED — FINE DIA CORDS
S-96	↓	↓		X		DISTORTED, ALMOST OBLITERATED — FINE DIA CORDS
S-97	↓	↓		X		DISTORTED — FINE & V. FINE DIA CORDS
S-98	↓	↓		X?		VERY DISTORTED — BUT SEVERAL 2 SEGMENT SECTIONS OF LONGER ELEMENTS ARE S TWIST — FINE DIA CORDS
S-99	↓	↓		X		DISTORTED — MEDIUM FINE DIA CORDS
S-100	↓	↓		X		VERY DISTORTED — FINE & ONE MEDIUM DIA CORDS
S-101	↓	↓			X	VERY DISTORTED, SMALL CAST & CONFUSING PATTERN — MAY BE ONLY S TWIST C-M — BUT NOT UNEQUIVOCALLY

CORDAGE TWIST DIRECTION SHORT FORM

SITE NO: 18Mo1 PAGE 5 of ____

SITE NAME: HUGHES COMPONENT: LURAY COMPLEX

POTTERY TYPE: KEYSER CORD-MARKED

TEMPER TYPE: SHELL DECORATION/

SURFACE FINISH: CORD-MARKED DECORATIVE

TECHNIQUE :

Surface Cast No.	FS/FC. Number	Provenience	Twist Direction Z	S	Unk	COMMENTS
S-102	#234-1	N10E10 LVL 1			X	DISTORTED, CONFUSING PATTERN & SMALL CAST — THERE ARE DEFINITELY SOME Z SEGMENT S TWIST ELEMENTS PRESENT (EVEN WITH Z SPUN PLYS) — BUT NOT CONVINCINGLY ONLY C-M
S-103				X		VERY DISTORTED — BUT FINE SHORTER 2 SEGMENT S TWIST SECTIONS OF LONGER ELEMENTS ARE MORE CONVINCINGLY C-M
S-104				X		IF THIS WERE DISTORTED, OVERLAPPING CORD PATTERN WOULD BE EQUIVOCAL — BUT HERE, CLEARLY C-M — FINE DIA CORDS
S-105				X		DISTORTED — FINE DIA. CORDS
S-106				X		SMALL CAST & DISTORTED — ALL DISTINGUISHABLE ELEMENTS ARE S TWIST, DESPITE TENDENCY OF SOME TO APPEAR TO BE Z TWIST IN CERTAIN LIGHT ANGLES
S-107				X?		SMALL CAST & DISTORTED — S TWIST — SEEMS TO BE ONLY C-M — MEDIUM FINE & MEDIUM DIA. CORDS
S-108				X		FINE DIA CORDS
S-109				X		VERY DISTORTED BUT SEVERAL ELEMENTS SEEM TO BE S TWIST — C-M DEFINITELY
S-110				X??		VERY DISTORTED — COARSER BACKGROUND ELEMENTS ARE S TWIST — FINER FOREGROUND (DEEPER) CORDS SEEM TO BE S TWIST
S-111	#235-1	N10 E12	X			VERY FAINT & DISTORTED — BUT A COUPLE OF 2 & 3 SEGMENT ELEMENTS AND ONE 5 SEGMENT ELEMENT ARE Z TWIST
S-112		LVL 1		X		VERY DISTORTED FROM PUDDLING — BUT SEVERAL LONG S TWIST ELEMENTS - MEDIUM DIA CORDS IF NOT DISTORTED
S-113					X	SMALL CAST & CONFUSING PATTERN — MOST ELEMENTS SEEM TO BE S TWIST BUT ONE COULD BE Z TWIST PATTERN NOT NECESSARILY C-
S-114					X	VERY DISTORTED — PROBABLY C-M — BUT NOT UNEQUIVOCALLY S TWIST
S-115				X		DISTORTED — BUT DEFINITELY S TWIST — FINE DIA. CORDS
S-116				X		VERY DISTORTED — BUT 2, 3 + 4 SEGMENT S TWIST ELEMENTS PRESENT — FINE DIA CORDS
S-117				X?		VERY DISTORTED — SEVERAL PARALLEL MEDIUM TO MEDIUM FINE 2 SEGMENT ELEMENTS — SEEM TO BE C-M
S-118				X?		VERY DISTORTED FROM SMOOTHING — ALMOST OBLITERATED — 3 FAINT SEGMENT SEEM TO BE IN AN S TWIST CONFIGURATION
S-119				X		VERY DISTORTED — ONE 4 SEGMENT ELEMENT IS S TWIST — FINE DIA CORDS
S-120					X	VERY DISTORTED FINE DIA CORDS & SMALL CAST — PROBABLY S TWIST — BUT NOT UNEQUIVOCALLY
S-121			X			DISTORTED — MEDIUM FINE TO FINE DIA CORDS
S-122	#233-2	N10E8	X			FINE DIA CORDS
S-123		LVL 2		X?		VERY DISTORTED — BUT SEVERAL 2 & 3 SEGMENT ELEMENTS ARE S TWIST — PROBABLY C-M
S-124				X		DISTORTED — MEDIUM-FINE DIA CORDS & MEDIUM DIA
S-125				X??		EXTREMELY DISTORTED FROM PUDDLING — ONE 3 SEGMENT ELEMENT SEEMS TO BE S TWIST, ANOTHER COULD BE. (NOT DISTORTED)
S-126				X		DISTORTED — FINE DIA CORDS

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CORDAGE TWIST DIRECTION SHORT FORM

SITE NO: 18Mo1 PAGE 6 of ____
SITE NAME: HUGHES COMPONENT: LURAY COMPLEX
POTTERY TYPE: KEYSER CORD-MARKED
TEMPER TYPE: SHELL DECORATION/
SURFACE FINISH: CORD-MARKED DECORATIVE
TECHNIQUE :

Surface Cast No.	FS/FC. Number	Provenience	Twist Direction Z	S	Unk	COMMENTS
S-127	#233-2	N10E8 LVL 2	X			MEDIUM-FINE DIA. CORDS
S-128	" "	" "		X		DISTORTED — FINE DIA CORDS
S-129	#1005-1	N0E8		X		DISTORTED — FINE + MEDIUM DIA. CORDS
S-130		LVL 1			X	VERY DISTORTED — ALMOST OBLITERATED — PROBABLY S TWIST, BUT I WOULDN'T NECESS. MAKE THAT CALL IF I DIDN'T KNOW IT WAS PREDOM. S TW
S-131				X		DISTORTED — FINE + MOSTLY MEDIUM-FINE DIA CORDS
S-132				X		DISTORTED — FINE TO MEDIUM-FINE DIA CORDS
S-133				X		VERY DISTORTED & FAINT — BUT A COUPLE OF 2 SEGMENT S TWIST ELEMENTS IDENTIFIABLE & PATTERN IS C-M
S-134				X		VERY DISTORTED BUT SEVERAL 2 & 3 S-TWIST ELEMENTS PRESENT — FINE-MEDIUM
S-135				X		VERY DISTORTED — SOME FINE DIA CORDS APPEAR TO BE Z TWIST IN CERTAIN LIGHT ANGLES — BUT CLOSE INSPECTION INDICATES, DIA. CORDS
S-136				X		DISTORTED — BUT SEVERAL 2-5 SEGMENT ELEMENTS ARE S TWIST — FINE DIA. CORDS ARE S TWIST
S-137			X			MEDIUM-FINE + MEDIUM DIA CORDS
S-138				X		VERY DISTORTED + FAINT — LOTS OF FLOATING SEGMENTS — BUT TWO SETS OF 2 SEGMENTS SEEM TO BE IN S TWIST CONFIG. — BUT BEST S TW
S-139				X		SOME DISTORTION - MEDIUM-FINE TO FINE DIA CORDS EXAMPLE IS A V
S-140				X		VERY DISTORTED — BUT ONE 4 SEGMENT & ONE 2 SEGMENT ELEMENTS (ACTUALLY SEVERAL 2 & 3 FAINT) ARE S TWIST FAINT COARSE E 3 SEGMENT EL MENT SORT OF L IN BACKGR
S-141			X			SOME DISTORTION — FINE DIA. CORDS FINE DIA CORDS
S-142				X		FINE + MEDIUM-FINE DIA. CORDS
S-143			X			VERY DISTORTED + FAINT — BUT SEVERAL 3 & 4 SEGMENT CORDS SEEM TO BE Z TWIST — MEDIUM-FINE DI CORDS
S-144				X		VERY FAINT — BUT TWO 3 & ONE 4 SEGMENT S TWIST ELEMENTS — FINE DIA CORDS
S-145				X		FINE + MEDIUM — FINE DIA CORDS
S-146				X		FINE, MEDIUM-FINE + MEDIUM DIA. CORDS
S-147				X		FAINT — BUT SEVERAL 3 SEGMENT ELEMENTS — FINE DIA CORDS
S-148				X		DISTORTED BUT DEFINITELY S-TWIST & C-M — FINE DIA CORDS
S-149				X		FINE DIA CORDS
S-150				X?		VERY FAINT & DISTORTED & SMALL CAST — BUT ONE 3 SEGMENT ELEMENT IS S TWIST — MEDIUM DIA CORD
S-151				X		FINE + MEDIUM-FINE DIA CORDS
S-152				X		FINE DIA CORDS

CORDAGE TWIST DIRECTION SHORT FORM

SITE NO: 18 MO1 PAGE 7 of ____

SITE NAME: HUGHES COMPONENT: WRAY COMPLEX

POTTERY TYPE: KEYSER CORD-MARKED

TEMPER TYPE: SHELL DECORATION/ ____

SURFACE FINISH: CORD-MARKED DECORATIVE ____

TECHNIQUE : ____

Surface Cast No.	FS/FC. Number	Provenience	Twist Direction Z	S	Unk	COMMENTS
S-153	#479-1	N18E44 LVL 1		X		MEDIUM DIA. CORD
S-154					X	MOST SHORT ELEMENTS ARE S TWIST, BUT AT LEAST 2 ARE Z TWIST – PATTER CONFUSING – NOT OBVIOUSLY C-M WITH 2 CORDS OF DIFFERENT TWIST.
S-155					X	VERY DISTORTED FROM PUDDLING – I THINK I CAN SEE A 3 SEGMENT S TWIST + Z TWIST CORD – CAN'T TELL IF ITS ONLY C-M
S-156					X	VERY DISTORTED FROM SMOOTHING – LOTS OF FLOATING SEGMENTS + CONFUSING PATTER – POSSIBLY S TWIST BUT HARDLY DEFINITIVELY + C-M EVEN SHAKIER
S-157						CAST MISSING
S-158	#481-1	N18E48		X		VERY DISTORTED – FINE DIA. CORDS
S-159		LVL 1		X		VERY DISTORTED – BUT ONE 2 + ONE 3 SEGMENT ELEMENTS ARE S TWIST – MEDIUM-FINE DIA. CORDS
S-160				X		DISTORTED – FINE DIA. CORDS
S-161					X	ALMOST TOTALLY OBLITERATED – JUST A FEW FLOATING SEGMENTS – PROBABLY S TWIST, BUT WOULDN'T SAY THAT IF I DIDN'T KNOW THAT IT WAS PREDOMINATELY S-TWIST
S-162				X?		VERY DISTORTED – ALMOST TOTALLY OBLITERATED ONE 4 + ONE 2 SEGMENT CLOSELY PACKED ELEMENTS ARE S TWIST FINE DIA CORD
S-163			X			VERY DISTORTED – BUT ONE 4 SEGMENT ELEMENT IS Z TWIST – FINE DIA CORDS
S-164				X		DISTORTED – BUT THREE 2 SEGMENT SECTIONS OF MUCH LONGER ELEMENTS ARE S TWIST – FINE DIA CORDS – DEFINITELY C-M
S-165					X	VERY DISTORTED + SMALL CAST OBLITERATED EXCEPT FOR ONE SECTION WITH LOTS OF PACKED SEGMENTS – PROBABLY S TWIST – BUT JUST NOT QUITE DEFINITE
S-166					X	SMALL CAST + EXTENSIVELY DISTORTED BY PUDDLING – CAN'T REALLY SEE MUCH
S-167					X	SAME AS ABOVE – PROBABLY DERIVED FROM SAME VESSEL
S-168				X		DISTORTED – BUT TWO 3 SEGMENT ELEMENTS ARE S-TWIST (V. SMALL CAST) – MEDIUM DIA. CORD
S-169	#482-1	N18E50		X		FINE + MEDIUM-FINE DIA. CORDS
S-170		LVL 1		X		DISTORTED – MEDIUM-FINE DIA. CORDS
S-171				X??		VERY DISTORTED + CONFUSING PATTERN – BUT TWO 2 SEGMENT + ONE 3 SEGMENT ELEMENTS – PROBABLY C-M
S-172				X		VERY DISTORTED – BUT ONE 4 SEGMENT ELEMENT IS S TWIST – MEDIUM TO MEDIUM-FINE DIA CORD
S-173				X		DISTORTED BUT LOTS OF S TWIST ELEMENTS – AND ALMOST CERTAINLY C-M – MEDIUM DIA CORDS
S-174				X		DISTORTED – FINE DIA CORDS
S-175				X?		SMALL CAST + TIGHTLY PACKED ELEMENTS – BUT SEEMS TO BE ONLY C-M – MEDIUM DIA CORDS
S-176				X?		EXTENSIVELY DISTORTED – ALMOST OBLITERATED – BUT ONE 3 SEGMENT SECTION OF A LONGER ELEMENT IS S TWIST
S-177				X??		EXTENSIVELY DISTORTED + FAINT + SMALL CAST – BUT TWO + A "PHANTOM" 3RD SEGMENT SEEM TO BE IN A CONVINCING S-TWIST CONFIGURATION
S-178				X?		VERY SMALL CAST – MULTIPLE 3 + 4 SEGMENT ELEMENTS – JUST THAT PATTERN'S A LITTLE CONFUSING – PROBABLY ONLY OVERSTAMPED C-M

CORDAGE TWIST DIRECTION SHORT FORM

SITE NO: 18 Mo 1 PAGE 8 of ____
SITE NAME: HUGHES COMPONENT: LURAY COMPLEX
POTTERY TYPE: KEYSER CORD-MARKED
TEMPER TYPE: SHELL DECORATION/
SURFACE FINISH: CORD-MARKED DECORATIVE
TECHNIQUE :

Surface Cast No.	FS/FC. Number	Provenience	Twist Direction Z	S	Unk	COMMENTS
S-179	#536-1	N20 E44 LVL 1		X??		VERY DISTORTED FROM PUDDLING — A COUPLE OF 2 SEGMENT ELEMENTS ARE IDENTIFIABLE — PRESUMABLY C-M
S-180					X	TOO DISTORTED & CONFUSING PATTERN — JUST FLOATING SEGMENTS
S-181				X		VERY FAINT BUT ONE 4 SEGMENT ELEMENT IS STWIST — ADJ. PARALLEL ONE PROBA IS STWIST
S-182				X?		VERY DISTORTED — BUT THREE 2-4 SEGMENT ELEMENTS ARE S TWIST — ONLY QUESTION IS SOMEWHAT CONFUSING PATTERN
S-183				X?		VERY DISTORTED & CONFUSED, TIGHTLY PACKED PATTERN — SEVERAL 2 SEGMENT & ONE COARSE 3 SEG. ELEMENT ARE S-TWIST — PROBABLY ONLY C-M PROBABLY ONLY C MEDIUM DIA CORD
S-184				X		DISTORTED — MEDIUM TO MEDIUM FINE DIA CORDS FINE & MEDIUM DIA CORDS
S-185				X		VERY DISTORTED — BUT TWO 3 SEGMENT ELEMENTS ARE S TWIST — FINE DIA. CORDS
S-186					X	TOO DISTORTED FROM PUDDLING - ONE ELEMENT COULD BE STWIST?
S-187					X	TOO DISTORTED FROM SMOOTHING — SL. SUGGESTION OF S-TWIST BUT HARDL DEFINITIVE
S-188				X		VERY DISTORTED & FAINT — BUT TWO 4 SEGMENT ELEMENTS ARE STWIST — FINE DIA CORDS
S-189					X	TOO DISTORTED FROM PUDDLING TO SEE MUCH
S-190				X		DISTORTED — FINE DIA CORDS
S-191					X	TOO DISTORTED TO MAKE OUT TWIST — DEFINITELY C-M — PROBABLY
S-192				X		VERY DISTORTED — BUT TWO LONG PARALLEL ELEMENTS ARE STWIST — FINE DIA. CORDS
S-193	#348-1	N14 E10		X		VERY DISTORTED FROM PUDDLING — ONE COARSE DIA. 3 SEGMENT ELEMENT IS S TWIST — ANOTHER 4 SEG. ELEMENT IS PROBABLY S
S-194		LVL 1			X	TOO DISTORTED FROM PUDDLING TO SEE ANYTHING
S-195				X		VERY DISTORTED — BUT SEVERAL 3+ SEGMENT ELEMENTS ARE STWIST — DEFINITELY C-M — FINE DIA. CORDS
S-196				X??		VERY DISTORTED — ONE 2 SEGMENT ELEMENT IS S TWIST — OTHERS SUGGEST S-TWIST — PROBABLY C-M
S-197				X?		VERY DISTORTED & CONFUSING PATTERN - 2, 3 & 4 SEGMENT ELEMENTS ARE S TWIST — NOT 100% CERTAIN ITS ONLY C-M
S-198			X			VERY DISTORTED — FINE DIA CORDS
S-199				X		VERY DISTORTED — MEDIUM-FINE DIA CORDS
S-200				X		VERY DISTORTED — FINE & MEDIUM-FINE DIA CORDS
S-201				X		SMALL & VERY DISTORTED — FINE DIA. CORD } COULD BE DERIVED FRO. SAME VESSEL
S-202				X		SMALL CAST & VERY DISTORTED — FINE DIA CORDS }
S-203				X		VERY DISTORTED — ALMOST OBLITERATED — COUPLE OF 2 & ONE 3 SEGMENT ELEMENTS ARE S TWIST — FINE & MED, FINE DIA CORDS
S-204			X			DISTORTED & SMALL CAST — MEDIUM FINE DIA CORDS

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CORDAGE TWIST DIRECTION SHORT FORM

SITE NO: 18M01 PAGE 9 of ____
SITE NAME: HUGHES COMPONENT: LURAY COMPLEX
POTTERY TYPE: KEYSER CORD-MARKED
TEMPER TYPE: SHELL DECORATION/
SURFACE FINISH: CORD-MARKED DECORATIVE
TECHNIQUE :

Surface Cast No.	FS/FC. Number	Provenience	Twist Direction Z	S	Unk	COMMENTS
S-205	#520-1	N20E12 LVL 1			X	EXTENSIVELY DISTORTED BY PUDDLING/SMOOTHING — ALTHOUGH THERE SEEM TO BE SOME 2 & 3 SEGMENT STWIST ELEMENTS, OTHERS ARE LESS CERTAINLY Z-(?) — WHAT'S LEFT OF PATTERN IS VERY CONFUSING
S-206					X	TOO FAINT TO SEE ANYTHING — ONE LONG ELEMENT MIGHT BE Z TWIST ???
S-207				X		DISTORTED — MEDIUM & FINE DIA. CORDS
S-208				X		DISTORTED — MEDIUM DIA CORDS
S-209				X		VERY DISTORTED — BUT ONE 3 & A COUPLE OF 2 SEGMENT ELEMENTS ARE STWIST — C-M — MEDIUM-FINE DIA CORD
S-210					X	TOO DISTORTED FROM PUDDLING TO SEE MUCH
S-211					X	TOO DISTORTED TO SEE ANYTHING DEFINITIVE
S-212					X	SAME AS ABOVE (BUT DIFFERENT VESSEL)
S-213				X		DISTORTED — MEDIUM & FINE DIA CORDS
S-214				X?		DISTORTED, VERY SMALL CAST, MEDIUM-COARSE DIA CORDS & CONFUSING PATTERN — ONLY RESERVATION: IS IT ONLY C-M?
S-215				X		V. SMALL CAST & DISTORTED — FINE DIA CORDS
S-216				X		DISTORTED — FINE DIA. & ONE MEDIUM-FINE DIA. CORDS
S-217				X		DISTORTED, SMALL CAST & TIGHTLY PACKED ELEMENTS ALL SEEM TO BE STWIST WHERE DIRECTION CAN BE DISCERNED
S-220				X		VERY DISTORTED — BUT ALL DISCERNABLE ELEMENTS SEEM TO BE STWIST — FINE DIA CORDS
S-221	#575-1	N22E8		X		DISTORTED — MEDIUM-FINE DIA. CORDS
S-222		LVL 1		X		DISTORTED — FINE DIA. CORDS
S-223				X?		EXTENSIVELY DISTORTED — COUPLE OF 2 SEGMENT STWIST SECTIONS OF LONGER ELEMENTS — PROBABLY C-M
S-224				X		EXTENSIVELY DISTORTED — ALMOST OBLITERATED — TWO 3 SEGMENT ELEMENTS ARE S TWIST — SEEMS TO BE C-M
S-225				X		DISTORTED — MEDIUM & MEDIUM-FINE DIA CORDS
S-226				X		VERY DISTORTED & FAINT — ONE 4 SEGMENT ELEMENT IS S TWIST
S-227				X		DISTORTED & DETERIORATED SHELL SURFACE — ONE 4 SEGMENT ELEMENT IS S TWIST — FINE DIA. CORD
S-228				X		VERY DISTORTED BUT A COUPLE OF 2 & 3 SEGMENT ELEMENTS ARE S TWIST — FINE DIA CORD
S-229				X		DISTORTED — FINE DIA CORDS
S-230					X	TOO DISTORTED TO PICKUP SLANT DIRECTION ON CORDS
S-231				X??		VERY DISTORTED MEDIUM — FINE DIA CORDS — 2 SEGMENT SECTION OF LONGER ELEMENT SEEMS TO BE S TWIST
S-232				X		VERY DISTORTED — ALMOST OBLITERATED — ONE 3 SEGMENT ELEMENT IS S TWIST — FINE DIA CORD
S-218	#520-1	N20E12, LVL 1			X	TOO DISTORTED, CAST TOO SMALL & PATTERN CONFUSING — ONE 2 SEGMENT S TWIST ELEMENT PRESENT BUT NOT AT ALL CERTAIN THIS ONLY S-M
S-219	" "	" " "		X		DISTORTED — BUT FOUR 2-4 ADJACENT ELEMENTS ARE STW MEDIUM DIA CORDS

CORDAGE TWIST DIRECTION SHORT FORM

SITE NO: 18MO1 PAGE 10 of ____
SITE NAME: HUGHES COMPONENT: LURAY COMPLEX
POTTERY TYPE: KEYSER CORD-MARKED
TEMPER TYPE: SHELL DECORATION/
SURFACE FINISH: CORD-MARKED DECORATIVE
TECHNIQUE :

Surface Cast No.	FS/FC. Number	Provenience	Twist Direction Z	S	Unk	COMMENTS
S-233	#575-1	N22 E8 LVL 1		X		VERY DISTORTED — BUT STWIST C-M-FINE DIA. CORDS
S-234	↓	↓		X		VERY DISTORTED — BUT ALL DISCERNABLE ELEMENTS ARE STWIST — FINE DIA. CORDS, BUT NOT SAME VESSEL
S-235	↓	↓		X		FINE DIA. CORDS
S-236	↓	↓		X		VERY DISTORTED — MEDIUM + MEDIUM-FINE DIA. CORDS
S-237	#349-1	N14E12		X		VERY DISTORTED — ALMOST OBLITERATED — ONE 4 OR 5 SEGMENT ELEMENT IS S TWIST — MEDIUM DIA. CORD
S-238	↓	LVL 1		X		VERY DISTORTED PROBABLY FROM PUDDLING — BUT A COUPLE OF STWIST ELEMENTS DISCERNABLE
S-239	↓	↓		X		VERY DISTORTED BY PUDDLING — BUT ONE 3 SEGMENT + TWO 4 SEGMENT ELEMENTS ARE S TWIST
S-240	↓	↓	X??			VERY DISTORTED, FAINT + SNARD SURFACE DETERIORATED — SHORT SECTIONS OF LONGER ELEMENTS SUGGEST Z TWIST
S-241	↓	↓		X??		VERY DISTORTED BY PUDDLING — ONE 2 SEGMENT SECTION OF AN ELEMENT IS S TWIST
S-242	↓	↓		X		DISTORTED — MEDIUM-FINE + FINE DIA. CORDS
S-243	↓	↓		X		PLASTICINE / TOOK CAST OF WRONG SURFACE — LABEL WAS ON EXTERIOR SURF.
S-244	↓	↓		X		VERY DISTORTED — BUT ONE 5 SEGMENT ELEMENT IS S TWIST — FINE DIA. CORDS
S-245	↓	↓			X	TOO DISTORTED TO PICK OUT TWIST — OUTSIDE CHANCES IT'S Z TWIST
S-246	↓	↓		X		DISTORTED FROM PUDDLING — MEDIUM DIA. CORDS
S-247	↓	↓			X	TOO DISTORTED TO PICK OUT TWIST
S-248	↓	↓		X		DISTORTED — MEDIUM DIA. CORD
S-249	↓	↓		X		DISTORTED — FINE DIA. CORD
S-250	↓	↓		X		DISTORTED — MEDIUM + MEDIUM-FINE DIA CORDS
S-251	↓	↓			X	TOO DISTORTED FROM PUDDLING TO SEE MUCH — OUTSIDE CHANCE IT'S Z TWIST ??
S-252	#2004-1	N22 W4		X		VERY DISTORTED — MEDIUM-FINE DIA. CORDS
S-253	↓	LVL 1		X		VERY DISTORTED FROM PUDDLING — BUT AT LEAST FOUR 2-4 SEGMENT ELEMENTS ARE STWIST + C-M — MED. TO MED. FINE DIA. CORD
S-254	↓	↓			X	TOO DISTORTED FROM PUDDLING TO SEE MUCH
S-255	↓	↓		X		DISTORTED — MEDIUM + MED.-FINE DIA. CORDS
S-256	↓	↓		X		VERY DISTORTED + FAINT — BUT A COUPLE OF SHORTER SECTIONS OF MUCH LONGER ELEMENTS ARE S TWIST — FINE DIA. CORDS
S-257	↓	↓		X		VERY DISTORTED — A COUPLE OF SHORT 2 SEGMENT SECTIONS OF MUCH LONGER ELEMENTS ARE S TWIST (ONE IS 3 SEGMENTS LONG) FINE DIA. CORDS

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CORDAGE TWIST DIRECTION SHORT FORM

SITE NO: 18Mo1 PAGE 11 of ___
SITE NAME: HUGHES COMPONENT: LURAY COMPLEX
POTTERY TYPE: KEYSER CORD-MARKED
TEMPER TYPE: SHELL DECORATION/
SURFACE FINISH: CORD-MARKED DECORATIVE
TECHNIQUE :

Surface Cast No.	FS/FC. Number	Provenience	Twist Direction Z	S	Unk	COMMENTS
S-258	#2004-1	N22 W4 LVL 1		X		VERY DISTORTED — FINE DIA. CORDS
S-259				X		VERY DISTORTED — TWO 3 SEGMENT STWIST ELEMENTS DISCERNABLE — FINE DIA. CORDS
S-260					X	TOO DISTORTED BY PUDDLING TO SEE MUCH
S-261				X		DISTORTED — MEDIUM & COARSE DIA. CORDS
S-262					X	TOO DISTORTED & FAINT TO SEE MUCH
S-263				X?		VERY DISTORTED — LOTS OF STWIST ELEMENTS — ONLY OBSERVATION: IS IT ONLY C-M — COARSE, MEDIUM & MEDIUM-FINE DIA CORDS
S-264					X	TOO DISTORTED TO SEE ANYTHING DEFINITIVE
S-265				X		VERY DISTORTED — BUT SEVERAL MULTIPLE S TWIST ELEMENTS PRESENT — MEDIUM & MED.-FINE DIA CORDS
S-266				X		VERY DISTORTED BUT ONE 4 SEGMENT ELEMENT IS STWIST — FINE DIA CORD
S-267			X?			SMALL — VERY FINE, DISTORTED & FAINT CORDS CROSSING AT RIGHT ANGLES — THE TWIST ON THOSE THAT ARE DISCERNABLE ARE TWIST — BUT
S-268				X		VERY DISTORTED C-M — BUT SEEMS TO BE S TWIST WHERE SLANT DIRECTION IS DISERNABLE — VAGUE SUGGESTION: SOMEONE INDIS
S-269				X??		VERY DISTORTED — LOOKS LIKE C-M — ONE 2 SEGMENT SECTION OF MUCH LONGER CORD SEEMS TO BE STWIST — ELEMENT — BU NOT DEFINITI
S-270				X		DISTORTED & FAINT — FINE DIA CORDS
S-271				X??		VERY DISTORTED — ONE 3 SEGMENT ELEMENT IS S TWIST — BUT CONFUSING PATTERN
S-272				X		DISTORTED — FINE & MEDIUM-COARSE DIA. CORDS
S-273				X??		VERY DISTORTED — ONE 2 & ONE 3 SEGMENT ELEMENTS ARE S TWIST — BUT NOT DEFINITIVELY C-M
S-274				X?		DISTORTED & TINY CAST — DEFINITELY S TWIST (ONE 2 & ONE 3 SEGMENT ARE S TWIST) PROBABLY C-M — MED.-FINE DIA CORDS
S-275				X		DISTORTED — FINE & MEDIUM FINE DIA CORDS
S-276				X??		VERY DISTORTED — ONE 3 SEGMENT ELEMENT SEEMS TO BE S TWIST — FINE DIA. CORDS
S-277				X		DISTORTED — BUT C-M — FINE & MEDIUM-FINE DIA. CORDS
S-278	#575-1	N22 E8			X	DISTORTED & SMALL CAST — COULD ONLY BE Z TWIST C-M BUT ONE 2 SEGMENT ELEMENT COULD BE S TWIST & SEGMENTS SEEM TO BE
S-279	" "	LVL 1		X		VERY DISTORTED - BUT 2 ELEMENTS ARE DEFINITELY S TWIST — FINE DIA CORDS — AT ODD ANGLES — NOT AT ALL SURE THAT THIS C-