

B-104 Core 88 Segment #3 Riser #2

19

Date: 06-08-95

P.C. = JAIDUK Jo

weights = 20g = 19.99 grams 500g = 499.98 grams

Temperature = 81.2°F Humidity = 25%

Video tape # 6 Title - B-FARM

CASK Serial # C-1046

WORKLIST # 1510

LABCORE # S95T00/009

Sampler Serial # 94-268

Frame # ~~S95T00/009~~ #3-4

Dose RATE Through Drill string 34 mR/hr.

Sample # 95-087

LINER LIQUID = No Liner Liquid present.DRAINABLE LIQUID: (B-104 Core 88 Seg #3 riser #2)

No DRAINABLE LIQUID Present.

DESCRIPTION OF SOLIDS: (B-104 Core 88 Seg 3 riser 2)

Soft wet sludge. The color is greenish-yellow/olive color
 This segment contained black specks like the other seg #2.
 Obtained 19 inches of sample.

This segment looks Homogeneous. This segment looks
 similar to segment #2.

Sample Description B-104 Core 88 Seg 3 (LOWER-HALF SOLIDS)

JAR # 7147 (250mls)

FINAL WT. 424.63 grams

INITIAL WT. 221.78 grams

NET WT. 202.85 grams

PRO 895
 06-08-95

Sample Description B.104 Cor 88 S₃₃ #3 (Upper Half Sediment)

JAR # 7146 (250mls)
FINAL WT. 421.76 grams
INITIAL WT. 222.41 grams
NET WT. 199.35 grams

Notes: Everything in extrusion went well, piston did NOT hang up, EXTRUDED 19" OF SAMPLE.

~~JDO~~
06-08-95

B-104 Core 88 Segment #3 Riser #2
(photography)



B-104 Core 88 Segment #3

6-9-95

Logbook

50

BEST COPY AVAILABLE

WHC-SD-WM-OP 132 REV 1 B-104 Core 88 Segment # 4 Riser # 2

COPY

CHAIN-OF-CUSTODY RECORD FOR CORE SAMPLING

(1) Shipment Number SP-95-022 (2) Sample Number 95088 (3) Supervisor D. Hartley
(4) Tank 241-B-104 (5) Riser 2 (6) Segment 4 (7) Core 088 (8) Cask Serial Number C1035

Radiation Survey Data:		(9) FIELD	(33) LABORATORY	(10) Shipment Description	
Over Top Dose Rate	<u>4.5</u>	<u>4.5</u>	<u>4.5</u>	A. Work Package Number	<u>ES-95-00209/0</u>
Side Dose Rate	<u>1.1</u>	<u>1.1</u>	<u>1.1</u>	B. Cask Seal Number	<u>2785</u>
Bottom Dose Rate	<u>4.5</u>	<u>4.5</u>	<u>4.5</u>	C. Sampler Serial Number	<u>94-271</u>
Smearable Contamination	<u>420</u>	<u>420</u>	<u>420</u>	D. Date and Time Sampler Unseated	<u>6-6-95, 1859</u>
	(Alpha)	(Alpha)	(Alpha)	E. Expected Liquid Content	<u>300%</u>
	<u>4000</u>	<u>4000</u>	<u>4000</u>	F. Expected Solid Content	<u>700%</u>
	(Beta-Gamma)	(Beta-Gamma)	(Beta-Gamma)	G. Dose Rate Through Drill String	<u>47 mV/HR</u>
RCT* (HPT) <u>[Signature]</u>	(Signature)	RCT* (HPT) <u>[Signature]</u>	(Signature)	H. Expected Sample Length	<u>190</u>

(11) INFORMATION (Include statement of laboratory tests to be performed.)
WHC-SD-WM-TP-349

(12) Field Comments: Hydrostatic head fluid used
(34) Laboratory Comments:

(13) Point of Origin <u>241-B-104</u>	(14) Destination <u>2.225</u>	(15) Sender Name (Sign and PRINT) <u>M.G. Jones M.C. Jones</u>	(16) Date/Time <u>6-8-95 9:05</u>	(17) Sender Comments
(19) Relinquished By (Sign and PRINT) <u>[Signature]</u>	(20) Received By (Sign and PRINT) <u>[Signature]</u>	(21) Date/Time <u>6-8-95 1939</u>	(22) Receiver Comments	
(23) Relinquished By (Sign and PRINT) <u>[Signature]</u>	(24) Received By (Sign and PRINT) <u>[Signature]</u>	(25) Date/Time <u>6-8-95/1026</u>	(26) Receiver Comments	
(27) Relinquished By (Sign and PRINT)	(28) Received By (Sign and PRINT)	(29) Date/Time	(30) Receiver Comments	

(18) Seal Intact Upon Release? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	(31) Seal Intact Upon Receipt? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	(32) Seal Data Consistent with this Record?	
Shipment No. <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No		Cask Seal No. <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	
Sample No. <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No			

B-104 Core 88 Segment #4 Riser #2

DATE:

06-09-95

Sample # 95-088

PC, N/A

weights 20g = 20.00 grams 500g = 499.99 grams

Temperature = 81.7°F Humidity = 25%

VIDEO TAPE # 6 title B-FARM

CASK SERIAL # C-1035

WORKLIST # 1550

LABCORE # 595T001065

Sampler Serial # 94-271

FRAME # 5-6

Dose rate through Drill string 47 mR/hr.

LINER LIQUID = NO LINER LIQUID PRESENT.DRAINABLE LIQUID: (B-104 Core 88 Seg #4 riser #2)

NO DRAINABLE LIQUID PRESENT

DESCRIPTION OF SOLIDS: (B-104 Core 88 Segment #4 Riser #2)

- ① Yellow-olive color, very moist, HAS black specks in sample (sludge-sand)
- ② Upper half of the last 5 inches retained shape.
- ③ Lower half of sample was very runny - sludge.
- ④ EXTRUDED full 19 inches of sample.

SAMPLE DESCRIPTION: B-104 Core 88 Seg #4 (Upper-half solids)

JAR # 7148 (250mLs)

Final WT. 403.31

Initial WT. 222.24

NET WT. 181.07

(Approx. 120mLs)

B-104 Core 88 Segment #4 Riser #2

Sample Description: B-104 Core 88 Segment #4

(LOWER-HALF SOLIDS)

JAR # 7234 (250mls)

FINAL WT. 419.48 grams

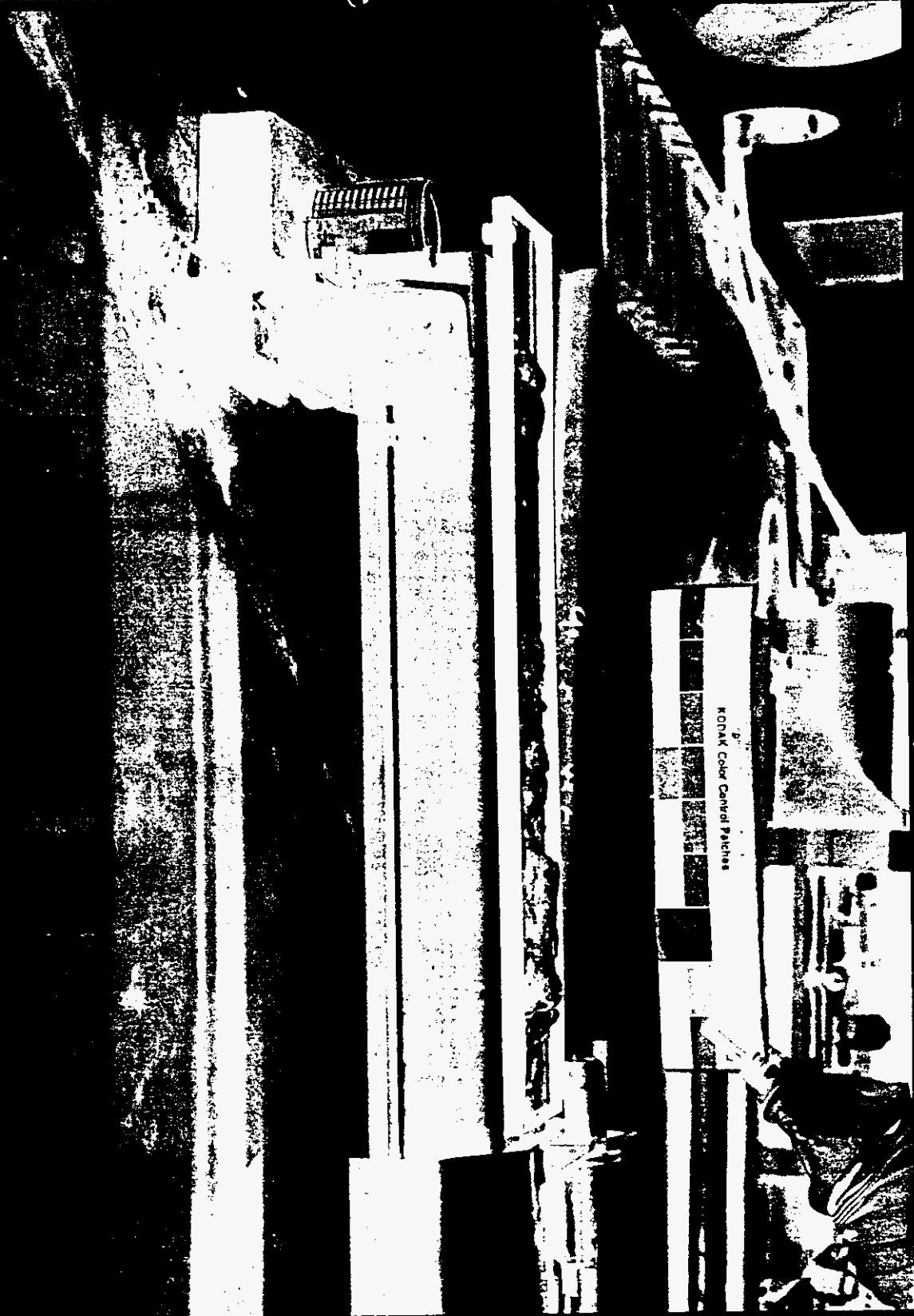
INITIAL WT. 219.99 grams

NET WT. 199.49 grams

(Approx 120mls)

NOTES: Sample was very Runny, EXTRUDED A FULL
 19" inches OF SAMPLE, PISTON ^{EXTENDED} FULLY
 PAST VALVE HEAD. EXTRUSION WENT WELL.

B-104 Core 88 Segment #4 Riser #2
(PHOTOGRAPHY)



B-104 Core 88 Segment #4

6-9-95

logbook

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PNPV

B-104 Core 88 Segment #5 Riser #2

WHC-SD-WM-DP-137, REV. 1

CHAIN-OF-CUSTODY RECORD FOR CORE SAMPLING

(1) Shipment Number SP-95-022 (2) Sample Number 95-089 (3) Supervisor E. Kuyman
 (4) Tank 241-B-104 (5) Riser 2 (6) Segment 5 (7) Core 88 (8) Cask Serial Number C-1049

Radiation Survey Date:		(9) FIELD		(10) Shipment Description	
Over Top Dose Rate	<u>1.5</u>	(13) LABORATORY	<u>10.5 m/h</u>	A. Work Package Number	<u>ES-95-00209-0</u>
Side Dose Rate	<u>1.0</u>		<u>1.0 m/h</u>	B. Cask Seal Number	<u>1792</u>
Bottom Dose Rate	<u>1.5</u>		<u>10.5 m/h</u>	C. Sampler Serial Number	<u>94-286</u>
Smearable Contamination	<u>1.20</u>	(Alpha)	<u>1.20 dpm</u>	D. Date and Time Sampler Unseated	<u>5-2-95 09:23</u>
	<u>11000</u>	(Beta-Gamma)	<u>1.1K dpm</u>	E. Expected Liquid Content	<u>30%</u>
RCT* (HPT)	<u>[Signature]</u>	(Signature)	RCT* (HPT)	F. Expected Solid Content	<u>70%</u>
				G. Dose Rate Through Drill String	<u>40 m/h</u>
				H. Expected Sample Length	<u>19"</u>

(11) INFORMATION (include statement of laboratory tests to be performed.)

(12) Field Comments HTF Head Fluid Used

(13) Point of Origin 241-B-104 (14) Destination 222-S

(15) Sender Name (Sign and PRINT) M.C. Jones M.C. Jones

(16) Date/Time 6-8-95/9:05

(17) Sender Comments

(18) Relinquished By (Sign and PRINT) [Signature] (19) Received By (Sign and PRINT) [Signature]

(20) Relinquished By (Sign and PRINT) [Signature] (21) Date/Time 6-8-95 09:30

(22) Receiver Comments

(23) Relinquished By (Sign and PRINT) [Signature] (24) Received By (Sign and PRINT) [Signature]

(25) Date/Time 6-8-95/10:30

(26) Receiver Comments

(27) Relinquished By (Sign and PRINT) [Signature] (28) Received By (Sign and PRINT) [Signature]

(29) Date/Time

(30) Receiver Comments

(31) Seal Intact Upon Receipt? Yes No

(32) Seal Data Consistent with this Record? Yes No

(33) Shipment No. Yes No

(34) Laboratory Comments

(35) Cask Seal No. Yes No

(36) Sample No. Yes No

B-104 Core 88 Segment #5 Riser #2

DATE: 06-09-95

P.C. = John Conner (covering Jaidik Joe)

weights 20g = 19.99 grams 500g = 499.99 grams

Temperature = 81.5°F Humidity = 25%

VIDEO TAPE # 6 Title B-FARM

CASK SERIAL # C-1049

WORKLIST # 1551

LABCORE # 5957001066

SAMPLER SERIAL # 94-286

FRAME # 8#7

Dose Rate through Drill string 40 mR/hr.

Sample # 95-089

LINER LIQUID:

(NO LINER LIQUID PRESENT)

DRAINABLE LIQUID: (B-104 Core 88 Seg #5 riser 2)

(NO DRAINABLE LIQUID PRESENT)

SAMPLE DESCRIPTION: (B-104 Core 88 Seg #5 Riser #2)

yellow/cream colored sludge oozing out of sampler onto TRAY. Upon EXTRUSION, sample appeared homogeneous yellow-cream colored solids with black specks throughout. VERY WET, DID NOT RETAIN SHAPE OF SAMPLER.

SAMPLE DESCRIPTION: B-104 Core 88 Seg #5 (LOWER HALF SOLIDS)

JAR # 7235 (250mls)

FINAL WT. 388.81

INITIAL WT. 222.56 (APPROX. 110 mls)

NET WT. 166.25

B-104 Core 88 Segment #5 Rse #2

Sample Description: B-104 Core 88 Seg 5 Rse #2 (Upper Half Solids)

JAR # 7236 (250mls)

FINAL WT. 428.41

INITIAL WT. 222.86 (APPROX 150mls)

NET WT. 205.55

TRAY LIFTED AND SAMPLE SCRAPED INTO JAR MUCH QUICKER THAN LOWER HALF.

NOTES: Sample was very runny, EXTRUDED full 19" inches
 OF SAMPLE, PISTON ^{EXTENDED} ~~EXTENDED~~ FULLY PAST VALVE HEAD.
 EXTRUSION WENT WELL. THE 06-07-97
 KIND OF SLOW SUBSAMPLING LOWER HALF OF SAMPLE BECAUSE
 IT WAS SO RUNNY.

TRD

B-104 Core 88 Segment #5 Riser #2
(photography)



B-104 Core 88 Segment #5

6-8-95

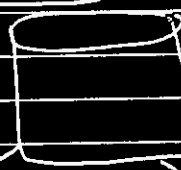
Logbook

6/7/95

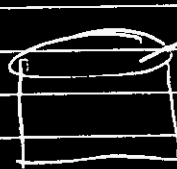
Homogenization + subsampling

B-104 core 88 Seg 1 Riser 2

Note: Pulverize
Before subsampling
Req tests DSC, TGA
Fusion, Alpha



Jar # 7071 (125ml) used in procedure
initial wt. 218.52 g
Final wt 139.40 g
Net wt 97.12 g

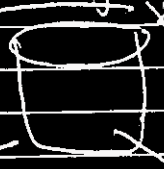


Jar # 7062 (20ml)
initial wt. 27.29 g
Final wt. 35.76 g
Net wt 8.47 g

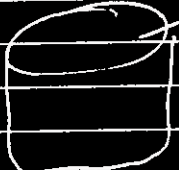


Archive
Jar # 7197 (40ml)
initial wt 25.21 g
Final wt 86.05 g
Net wt 60.84 g

B-104 Core 88 Seg 1 Riser 2



Jar # 7143 (250ml)
initial wt 494.57
Final wt 405.41
Net wt 89.16



Jar # 7063 (20ml)
initial wt. 27.29 g
Final wt.
Net wt.



Archive
Jar # 7198 (40ml)
initial wt 25.19 g
Final wt 80.74 g
Net wt 55.55 g

Note: Settle and take liquid sample from top for DSC/TGA/ICP-Li
Use Jar #7143 for composite sample.

B-104 Core 88 Field Blank Riser 2



Jar # 7142 (250 ml)

Note: 0.3m LiBr Hydrostatic Head
Fluid Analyze for Li+Br



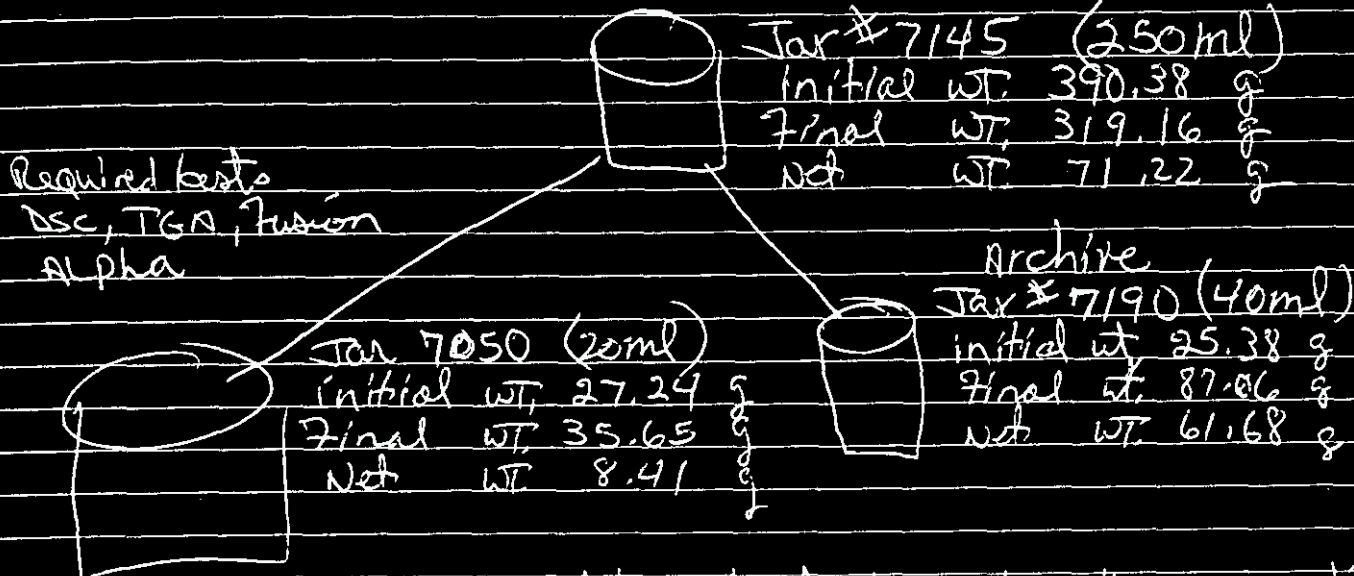
Jar # 7189 (40mls)
initial wt 46.11 g
Final wt 83.16 g
Net wt 37.55 g

Transfer approx 35 ml from
Jar 7142 to a 40ml vial.

A B Campbell 6/9/95

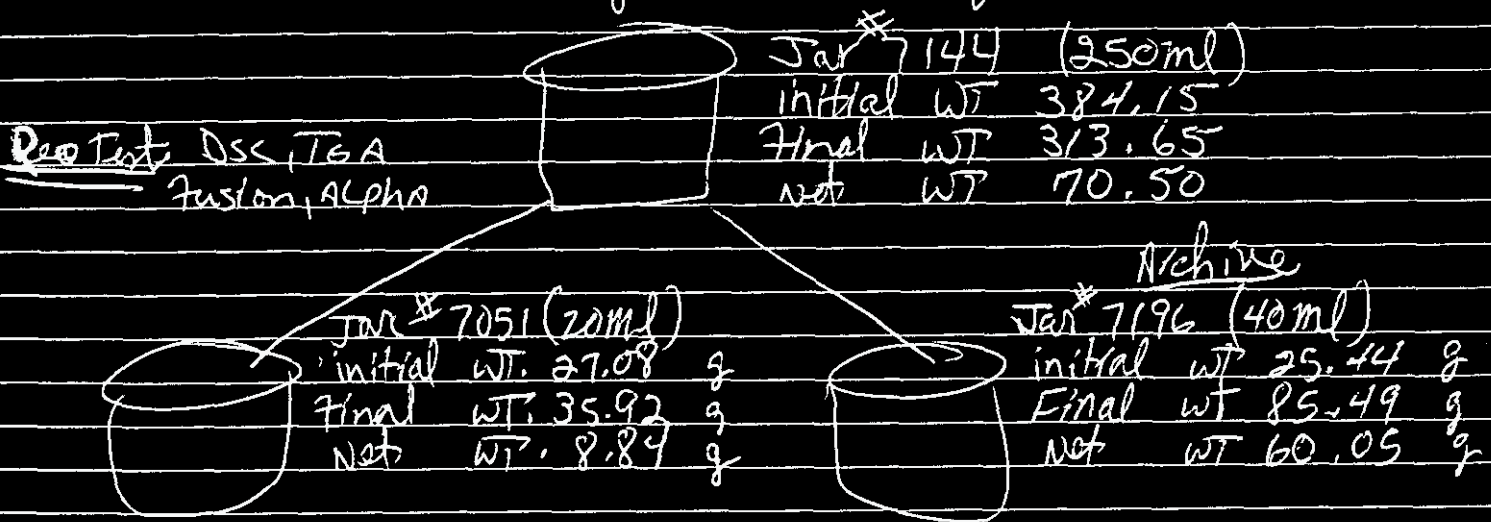
Homogenization + Subsampling

B-104 Core 88 Seg 2 ~~Riser 2~~



note Please record the start time for Homogenization and the ending time when Homogenization is complete See highlighted area. Homogenize for 10 or more minutes prior to Subsampling

B-104 Core 88 Seg 2 Lower Half Riser 2



Fax all work sheets to project coordinators Record start & stop time for Homogenization Homogenize for 10 min.

B Samples 6/9/95

COPY

CHAIN-OF-CUSTODY RECORD FOR CORE SAMPLING

(1) Shipment Number Sp-95-023 (2) Sample Number BLANK (3) Supervisor D. Hartley
 (4) Tank 241 B-104 (5) Riser #2 (6) Segment BLANK (7) Core 088 (8) Cask Serial Number C-1026

Radiation Survey Data:		(9) FIELD	(33) LABORATORY	(10) Shipment Description	
Over Top Dose Rate	<u>20.5 mR/hr</u>		<u>10.5 mR/hr</u>	A. Work Package Number	<u>E5-95-00209</u>
Side Dose Rate	<u>20.5 mR/hr</u>		<u>20.5 mR/hr</u>	B. Cask Seal Number	<u>6-7-95 C-1026 2784</u>
Bottom Dose Rate	<u>20.5 mR/hr</u>		<u>20.5 mR/hr</u>	C. Sampler Serial Number	<u>94-265</u>
Smearable Contamination	<u>220 dpm</u>		<u>220 dpm</u>	D. Date and Time Sampler Unseated	<u>6-8-95 18⁰²</u>
	(Alpha)		(Alpha)	E. Expected Liquid Content	<u>N/A</u>
	<u>21000 dpm</u>		<u>21K dpm</u>	F. Expected Solid Content	<u>N/A</u>
	(Beta-Gamma)		(Beta-Gamma)	G. Dose Rate Through Drill String	<u>N/A</u>
RCT* (HPT)	<u>[Signature]</u>	RCT* (HPT)	<u>[Signature]</u>	H. Expected Sample Length	<u>19"</u>
	(Signature)		(Signature)		

(11) INFORMATION (Include statement of laboratory tests to be performed.)

WHC-50-WM-Tp-349

(12) Field Comments

Field BLANK deionized WATER

(34) Laboratory Comments

(13) Point of Origin <u>241 B-104</u>	(14) Destination <u>222-5 Lab</u>	(15) Sender Name (Sign and PRINT) <u>M. Jones M. Jones</u>	(16) Date/Time <u>6-7-95/Bio</u>	(17) Sender Comments
(19) Relinquished By (Sign and PRINT) <u>[Signature] M. Jones</u>	(20) Received By (Sign and PRINT) <u>[Signature] Subal D. Helms</u>	(21) Date/Time <u>6/9/95/1300</u>	(22) Receiver Comments	
(23) Relinquished By (Sign and PRINT) <u>[Signature] Subal D. Helms</u>	(24) Received By (Sign and PRINT) <u>[Signature] E. Dubois</u>	(25) Date/Time <u>6-9-95 1400</u>	(26) Receiver Comments	
(27) Relinquished By (Sign and PRINT)	(28) Received By (Sign and PRINT)	(29) Date/Time	(30) Receiver Comments	

(18) Seal Intact Upon Release?

Yes No

(31) Seal Intact Upon Receipt?

Yes No

(32) Seal Data Consistent with this Record?

Shipment No.
 Yes No

Cask Seal No.
 Yes No

Sample No.
 Yes No

B-104 Core 88 BLANK Riser #2

WHC-SD-WM-DF-137, REV. 1

B-104 Core 88 BLANK Riser #2

DATE: 06-13-95

Temp. 77.9°F Humidity = 28%

weights 20g = 19.99 grams 500g = 499.99 grams

P.C. JAIDUK JO

Sampler Serial # 94-265

VIDEO TAPE #6 title B-FARM

LABCORE # 595T001083

WORKLIST # 1567

Dose rate through Drill STRING N/A.

FRAME # 9-10

Sample # BLANK

LINER LIQUID

NO LINER LIQUID PRESENT

DRAINABLE LIQUID (B-104 Core 88 BLANK riser #2)CLEAR-COLORLESS-LIQUID. (APPROX 250mls in jar #7237)
5mls in jar #7072

Sample Description: (B-104 Core 88 BLANK riser #2)

(DESCRIBED IN DRAINABLE LIQUID.)

Sample Description: (B-104 Core 88 BLANK riser #2)

JAR # 7237 (250mls) — Labcore #

FINAL WT. 467.38 grams

INITIAL WT. 222.81 grams

NET WT. 244.57 grams

B-104 Core 88 BLANK Riser #2

Sample Description (B-104 Core 88 BLANK riser 2)

JAR # 7072 (225mls)

FINAL WT. 134.82 grams

INITIAL WT. 130.12 grams

NET WT. 4.70 grams

(Approx 5mls)

NOTES: EXTRUSION WENT WELL. collected approx (260mls LIQUID).

{ VALVE OPENED 13:55 }

{ SAMPLE IN JARS 14:13 }

TJB
06-13-95

B-104 Core 88 BLANK Riser #2
(photography)



B-104 Core 88 Jull Blank

6-13-95
Lrgbook

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CHAIN-OF-CUSTODY RECORD FOR CORE SAMPLING

(1) Shipment Number SP-95-023 (2) Sample Number 95-090 (3) Supervisor [Signature] 6-13-95
 (4) Tank 241 B-104 (5) Riser 2 (6) Segment 6 (7) Core 88 (8) Cask Serial Number 6-1007

Radiation Survey Data:		(9) FIELD	(33) LABORATORY	(10) Shipment Description
Over Top Dose Rate		<u>20.5 mR/hr</u>	<u>20.5 mR/hr</u>	A. Work Package Number <u>ES 95 2091</u>
Side Dose Rate		<u>1 mR/hr</u>	<u>1 mR/hr</u>	B. Cask Seal Number <u>1791</u>
Bottom Dose Rate		<u>1 mR/hr</u>	<u>0.5 mR/hr</u>	C. Sampler Serial Number <u>94-263</u>
Smearable Contamination		<u>200 dpm</u>	<u>200 dpm α</u>	D. Date and Time Sampler Unseated <u>6-9-95 @ 10:24</u>
		(Alpha)	(Alpha)	E. Expected Liquid Content <u>30%</u>
		<u>21000 dpm</u>	<u>21K dpm βγ</u>	F. Expected Solid Content <u>70%</u>
		(Beta-Gamma)	(Beta-Gamma)	G. Dose Rate Through Drill String <u>40 mR/hr</u>
RCT* (HPT)	<u>[Signature]</u>	RCT* (HPT)	<u>[Signature]</u>	H. Expected Sample Length <u>19"</u>
	(Signature)		(Signature)	

(11) INFORMATION (Include statement of laboratory tests to be performed.)

(12) Field Comments: Hydrostatic HEAD Fluid Used, A 24 hour delay occurred between the time the sampler for segment 6 was put in the drill string. There was no sampler in the drill string. Typically there is only 15 to 20 min. that a sampler is not in the drill string. There may be higher head fluid intrusion to tops.

(34) Laboratory Comments

(13) Point of Origin <u>241 B-104</u>	(14) Destination <u>2225</u>	(15) Sender Name (Sign and PRINT) <u>M.C. Jones</u>	(16) Date/Time <u>6-9-95 9:00</u>	(17) Sender Comments
(19) Relinquished By (Sign and PRINT) <u>[Signature]</u>	(20) Received By (Sign and PRINT) <u>[Signature]</u>	(21) Date/Time <u>6/9/95 13:00</u>	(22) Receiver Comments	
(23) Relinquished By (Sign and PRINT) <u>[Signature]</u>	(24) Received By (Sign and PRINT) <u>[Signature]</u>	(25) Date/Time <u>6-9-95 14:20</u>	(26) Receiver Comments	
(27) Relinquished By (Sign and PRINT)	(28) Received By (Sign and PRINT)	(29) Date/Time	(30) Receiver Comments	

(18) Seal Intact Upon Release? Yes No

(31) Seal Intact Upon Receipt? Yes No

(32) Seal Data Consistent with this Record?

Shipment No. Yes No

Cask Seal No. Yes No

Sample No. Yes No

B-104 Core 88 Seg #6 Riser 2

WHCSD-WM-DF-137 REV. 1

B-104 Core 88 Seg #6 Riser 2

DATE: 06-13-95

P.C. JAIQUK JO

weights 20g = 19.99 grams 500g = 499.99 grams

Temperature = 77.7°F Humidity = 30%

VIDEO TAPE # 6 TITLE B-FARM

CASK Serial # C-1007

WORKLIST # 1565

LABCORE # 595T001081

SAMPLER Serial # 94-263

FRAME # 11-12

Dose Rate Through Drill String 40mR/hr.

Sample # 95-090

Liner Liquid:

BROWNISH-CLOUDY LIQUID 1.5mls. DID NOT RETAIN.

DRAINAGE LIQUID: (B-104 Core 88 Seg 6 riser 2)

NO DRAINABLE LIQUID Present.

Sample Description: First 2" of upper segment contained black specks with more liquid (maybe Hydraulic Head Fluid). Upper 2" did not hold shape as well as lower 17". The whole segment is an olive green / yellow sludge.

Can # 7238 (250 ml.) (Lower Half Solids) (~150 ml.)

Final wt. 412.735 grams

Initial wt. 221.697 grams

Net wt. 191.038 grams (APPROX. 150 mL)

Can # 7239 (250 ml.) (Upper Half Solids) (~170 ml.)

Final wt. 440.479 grams

Initial wt. 221.467 grams

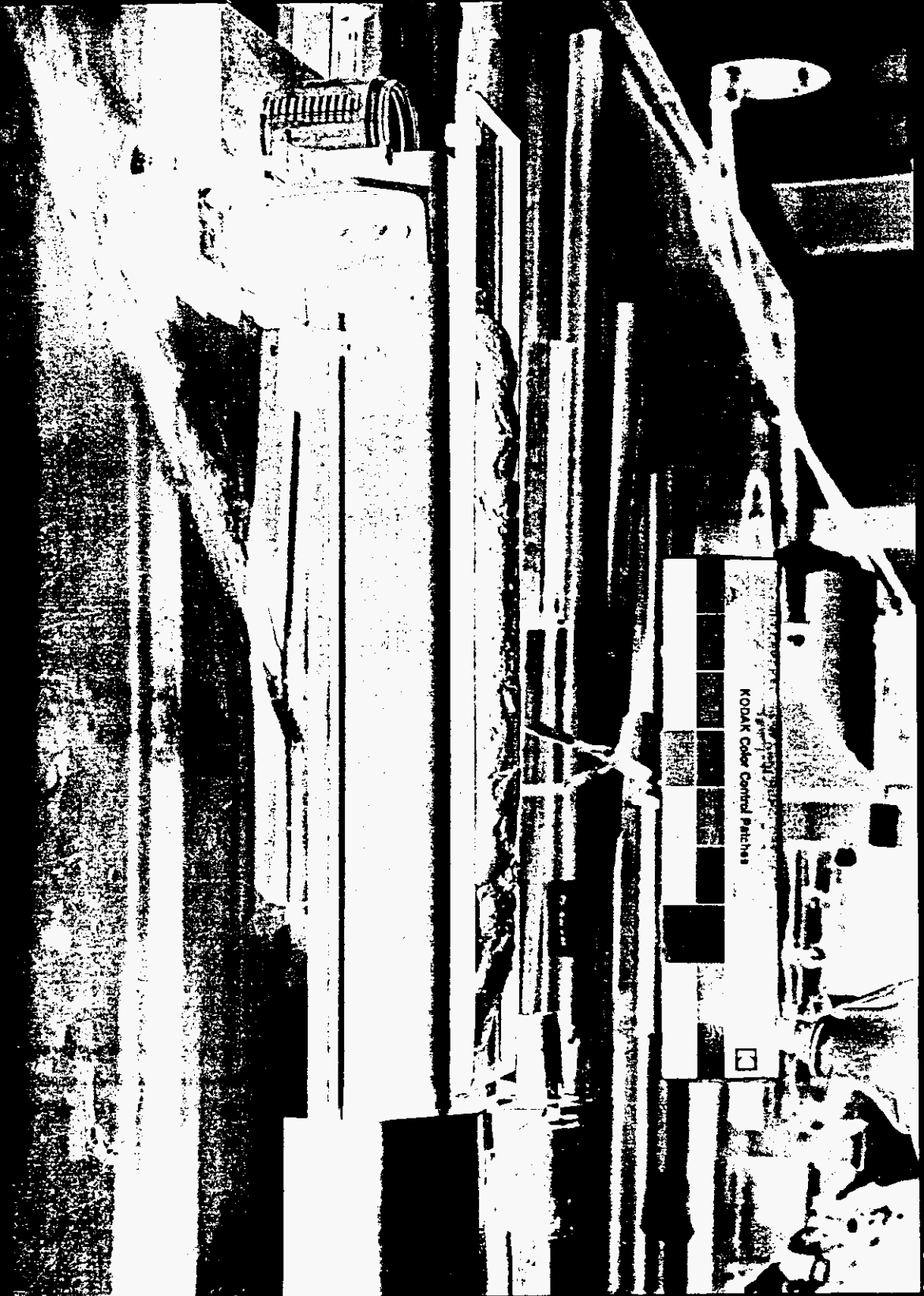
Net wt. 219.012 grams

66

B-104 Core 88 Seg #6 Riser 2

NOTES: EXTRUSION WENT WELL!

B-104 Core 88 Seg #6 Riser 2
(photograph)



B-104 Core 88 Segment #6

6-13-95
logbook

BEST COPY AVAILABLE

COPY

CHAIN-OF-CUSTODY RECORD FOR CORE SAMPLING

(1) Shipment Number SP-95-023 (2) Sample Number 95-091 (3) Supervisor Zane Pughman
 (4) Tank 241 B-104 (5) Riser 2 (6) Segment 7 (7) Core 88 (8) Cask Serial Number C1050

Radiation Survey Data:		(9) FIELD	(33) LABORATORY	(10) Shipment Description
Over Top Dose Rate	<u>10.5 mR/hr</u>		<u>10.5</u>	A. Work Package Number <u>95-00209/0</u>
Side Dose Rate	<u>10.5 mR/hr</u>		<u>10.5</u>	B. Cask Seal Number <u>1759</u>
Bottom Dose Rate	<u>10.5 mR/hr</u>		<u>10.5</u>	C. Sampler Serial Number <u>24-267</u>
Smearable Contamination	<u>220 dpm</u>		<u>220 dpm</u>	D. Date and Time Sampler Unseated <u>6-8-95 @ 11:25</u>
	(Alpha)		(Alpha)	E. Expected Liquid Content <u>30%</u>
	<u>4000 dpm</u>		<u>1K dpm</u>	F. Expected Solid Content <u>70%</u>
	(Beta-Gamma)		(Beta-Gamma)	G. Dose Rate Through Drill String <u>38 mR/hr</u>
RCT* (HPT)	<u>[Signature]</u>	RCT* (HPT)	<u>C. Ben</u>	H. Expected Sample Length <u>17"</u>
	(Signature)		(Signature)	

(11) INFORMATION (Include statement of laboratory tests to be performed.)
6

(12) Field Comments
 HYDROSTATIC HEAD FLUID used.
 BOTTOM Alarm went off AFTER 17" OF STROKE INTO SAMPLE.

(34) Laboratory Comments

(13) Point of Origin <u>241 B-104</u>	(14) Destination <u>222 S</u>	(15) Sender Name (Sign and PRINT) <u>M.C. Jones</u>	(16) Date/Time <u>6-9-95 13:00</u>	(17) Sender Comments
(19) Relinquished By (Sign and PRINT) <u>[Signature] M.C. Jones</u>	(20) Received By (Sign and PRINT) <u>Jubal D. Helms</u>	(21) Date/Time <u>6/9/95 13:00</u>	(22) Receiver Comments	
(23) Relinquished By (Sign and PRINT) <u>[Signature] Jubal D. Helms</u>	(24) Received By (Sign and PRINT) <u>E.E. Dickes</u>	(25) Date/Time <u>6-9-95 1400</u>	(26) Receiver Comments	
(27) Relinquished By (Sign and PRINT)	(28) Received By (Sign and PRINT)	(29) Date/Time	(30) Receiver Comments	

(18) Seal Intact Upon Release? Yes No

(31) Seal Intact Upon Receipt? Yes No

(32) Seal Data Consistent with this Record?

Shipment No. Yes No

Cask Seal No. Yes No

Sample No. Yes No

B-104 Core 88 Segment 7 Riser 2
 MHC-SD-MM-DP-737 REV 1

B-104 Core 88 Segment 7 riser 2

Date: June 14, 1995

Project Coordinator: Jaidok JO

Balance Calibration: 20 gram — 19.999 grams

500 gram — 499.986 grams

Hot Cell temperature and Humidity: 77.2 °F / 47%

Video Tape number: #6 / B-Farm

Cask serial number: C1050

Worklist number: #1566

LABCORE number: S95T001082

Sample Serial number: #94-267

Photo Frame number: #1 & #2 (taken @ 1115 hrs)

Dose Rate through Drill string @ 38 mR/hr

LIQUID LIQUID:

Liquid ~ 5 ml, did not retain.

DRAINABLE LIQUID: (B104 Core 88 SEG 7 Riser 2)

No Drivable Liquid present.

Sample Description:

Extruded approximately 17" of soft s ludge (sample)

Sample appeared yellowish olive green in color, contained more moisture than Segment 6. The sample did not

retain its shape, also had some black specks that

were embedded; In the core of the sample appeared a green colored (light) sample that extended almost the full length of the sample.

B-104 Core 88 Segment 7 riser 2

SUBSAMPLE INFORMATION:

1) Subsampled Lower half (B104 C88 SEG 7)

JAN # 7240 (250ml)

Final wt: 383.85 grams

Initial wt: 223.09 g

Net wt: 160.76 g

2) Subsampled Upper half (B104 C88 SEG 7)

JAN # 7242 (250ml)

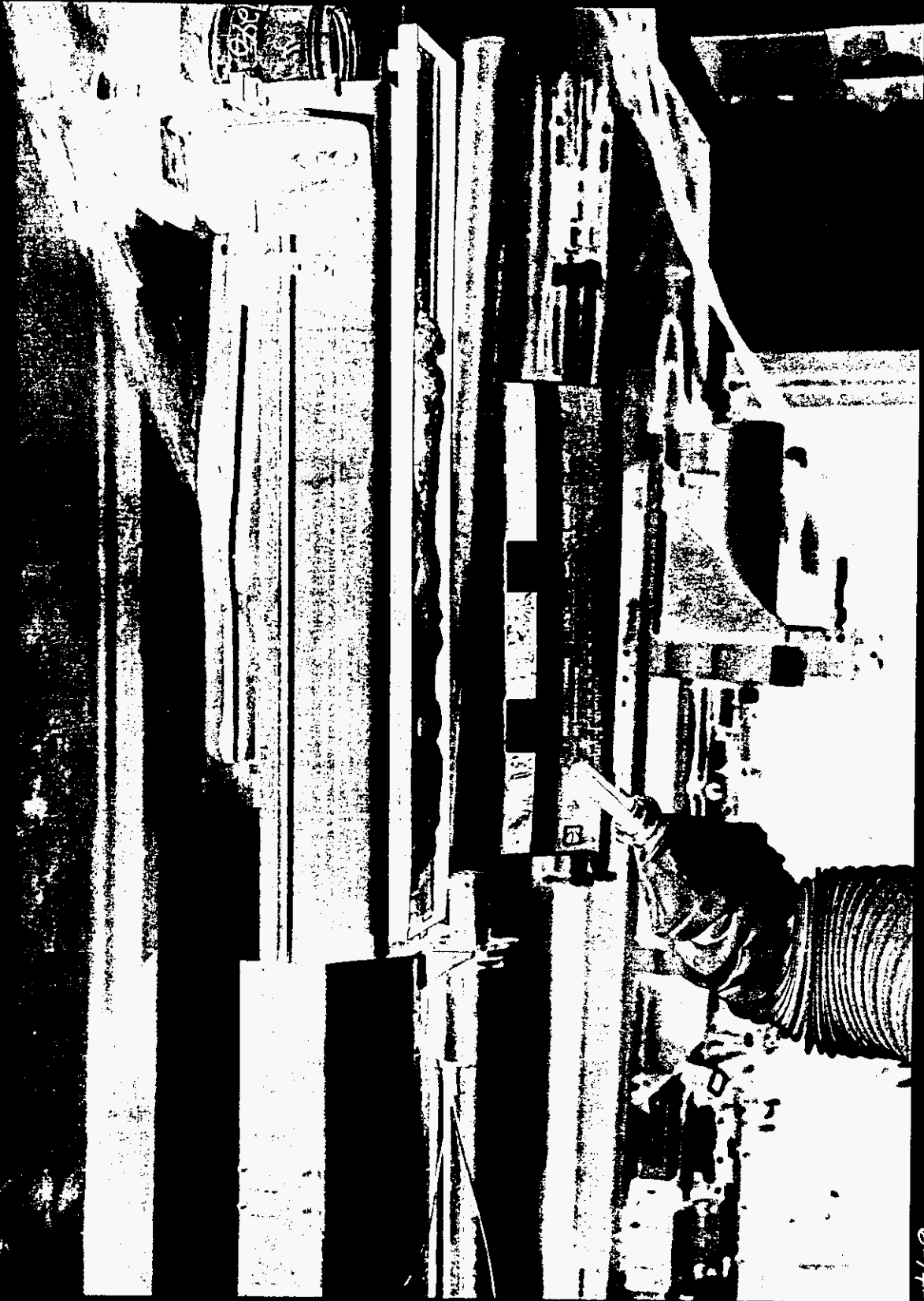
Final wt: 357.38

Initial wt: 224.00

Net wt: 133.38

(photography)

B-104 Core 88 Segment 7 riser 2



B-104 Core 88 Segment # 7

Fogback

6-14-95

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COPY

CHAIN-OF-CUSTODY RECORD FOR CORE SAMPLING

(1) Shipment Number SP-95-024 (2) Sample Number 95-092 (3) Supervisor HARTLEY
 (4) Tank 241 B-104 (5) Riser # 7 (6) Segment 1 (7) Core 89 (8) Cask Serial Number C-1046

Radiation Survey Data:		(9) FIELD	(33) LABORATORY	(10) Shipment Description	
Over Top Dose Rate	<u>< 0.5 mR/hr</u>		<u>1.5 mR/hr</u>	A. Work Package Number	<u>ES-95-00209</u>
Side Dose Rate	<u>< 0.5 mR/hr</u>		<u>.6 mR/hr</u>	B. Cask Seal Number	<u>2757</u>
Bottom Dose Rate	<u>< 0.5 mR/hr</u>		<u>< 0.5 mR/hr</u>	C. Sampler Serial Number	<u>94-295</u>
Smearable Contamination	<u>< 20 dpm</u>		<u>< 20</u>	D. Date and Time Sampler Unseated	<u>6-9-95 18.58</u>
	(Alpha)		(Alpha)	E. Expected Liquid Content	<u>30%</u>
	<u>< 1K dpm/g</u>		<u>< 1K</u>	F. Expected Solid Content	<u>70%</u>
	(Beta-Gamma)		(Beta-Gamma)	G. Dose Rate Through Drill String	<u>32 m</u>
RCT* (HPT)	<u>[Signature]</u>	RCT* (HPT)	<u>[Signature]</u>	H. Expected Sample Length	<u>19"</u>
	(Signature)		(Signature)		

(11) INFORMATION (Include statement of laboratory tests to be performed.)
WHC-SD-WM-TP-349

(12) Field Comments: Hydrostatic Head Fluid Used

(34) Laboratory Comments:

(13) Point of Origin <u>241 B-104</u>	(14) Destination <u>222's Lab.</u>	(15) Sender Name (Sign and PRINT) <u>[Signature]</u>	(16) Date/Time <u>6-12-95</u>	(17) Sender Comments
(19) Relinquished By (Sign and PRINT) <u>[Signature]</u>	(20) Received By (Sign and PRINT) <u>[Signature]</u>	(21) Date/Time	(22) Receiver Comments	
(23) Relinquished By (Sign and PRINT) <u>[Signature]</u>	(24) Received By (Sign and PRINT) <u>[Signature]</u>	(25) Date/Time <u>6-12-95 12:20</u>	(26) Receiver Comments	
(27) Relinquished By (Sign and PRINT)	(28) Received By (Sign and PRINT)	(29) Date/Time	(30) Receiver Comments	

(18) Seal Intact Upon Release? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	(31) Seal Intact Upon Receipt? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	(32) Seal Data Consistent with this Record? Shipment No. <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No Cask Seal No. <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No Sample No. <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
---	---	--

WHC-SD-WM-TP-349, REV. 1
 B-104 Core 89 Segment #1 Riser #7

B-104 Core 89 Segment #1 Riser #7

Date: June 14, 1995

Project Coordinator: Jaidok Jo

Balance Calibration: 20 grams - 19.996 gram

500 grams 499.986 gram

Hot Cell Temperature and Humidity: 78°F / 44%

Video Tape number: 6/B-Face

Cask serial number: C-1046

Work List number: #1585

Lab Core number: 595T001087

Sample Serial number: #94-295

Photo Frame number: #5 & #6 @ 1407 hrs

Dose rate through Drill string @ 32 m/hr.

Linear Liquid:

Linear liquid, light brown in color, turbid; Approx. 10ml recovered.

- Vial #: 7188 (40ml)

Final wt: 36.70 gram

Initial wt: 25.10

Net wt: 11.60

Drainable Liquid: B104 C89 SEG1 R-7

Drainable liq. appeared opaque, yellowish, green in color.

Recovered approximately 100 ml.

~~Jar # 7055 (125ml)~~ JAR # 7073 (125ml)

Final wt: 257.36 gram

Initial wt: 130.33

Net wt: 127.03

SAMPLE DESCRIPTION:

Extruded approximately 14" of moist soft sludge, which appeared yellowish brown with streaks of yellowish olive green sangle that appeared through out the sample; Black specks were also observed embedded in the sample.

B-104 Core 89 Segment #1 Riser #7

Subsample Information:

1.) SUBSAMPLED UPPER HALF (B104 C-89 SEG #1)

JAR # 7243 (250ml)

Final wt. 349.84 grams

Initial wt. 222.48 }
↓Net wt 127.36 }
↓

2.) SUBSAMPLED LOWER HALF (B104 C-89 SEG #1)

JAR # 7244 (250ml)

Final wt. 319.26 grams

Initial wt. 223.76 }
↓Net wt. 95.50 }
↓

B-104 Core 89 Segment #1 Riser #7
(PHOTOGRAPHY)

WHC-SD-WM-OP-132, REV. 1

47



B-104 Core 89 Segment #1

8-14-95

Raymond

COPY

CHAIN-OF-CUSTODY RECORD FOR CORE SAMPLING

(1) Shipment Number SP-95-024 (2) Sample Number 95-093 (3) Supervisor HARTLEY
 (4) Tank B-104 (5) Riser #7 (6) Segment 2 (7) Core 89 (8) Cask Serial Number C-1024

Radiation Survey Data:		(9) FIELD		(10) Shipment Description	
Over Top Dose Rate	<u>< 0.5 mR/hr</u>	(33) LABORATORY		A. Work Package Number	<u>E5-95-00209</u>
Side Dose Rate	<u>< 0.5 mR/hr</u>	<u>L. S. M. R. / hr</u>		B. Cask Seal Number	<u>2758</u>
Bottom Dose Rate	<u>1.5 mR/hr</u>	<u>March</u>		C. Sampler Serial Number	<u>94-257</u>
Smearable Contamination	<u>< 20 dpm</u>	<u>< 20</u>		D. Date and Time Sampler Unseated	<u>6-9-95, 2005</u>
	<u>< 1K dpm</u>	(Alpha)		E. Expected Liquid Content	<u>30%</u>
	<u>R. R. Bulteno</u>	(Beta-Gamma)	<u>AK</u>	F. Expected Solid Content	<u>70%</u>
RCT* (HPT)	<u>[Signature]</u>	RCT* (HPT)	<u>[Signature]</u>	G. Dose Rate Through Drill String	<u>38 mR</u>
				H. Expected Sample Length	<u>19"</u>

(11) INFORMATION (include statement of laboratory tests to be performed.)
WHC-SD-WM-TP-349

(12) Field Comments
hydrostatic head fluid used

(13) Point of Origin <u>B-104</u>	(14) Destination <u>222's Lab</u>	(15) Transfer Name, Sign and PRINT <u>[Signature]</u>	(16) Date/Time <u>6/9/95</u>	(17) Sender Comments
(19) Relinquished By (Sign and PRINT) <u>[Signature]</u>	(20) Received By (Sign and PRINT) <u>[Signature]</u>	(21) Date/Time	(22) Receiver Comments	
(23) Relinquished By (Sign and PRINT) <u>[Signature]</u>	(24) Received By (Sign and PRINT) <u>[Signature]</u>	(25) Date/Time <u>6-12-95 1230</u>	(26) Receiver Comments	
(27) Relinquished By (Sign and PRINT)	(28) Received By (Sign and PRINT)	(29) Date/Time	(30) Receiver Comments	

(18) Seal Intact Upon Release? Yes No

(18) Seal Intact Upon Receipt? Yes No

(32) Seal Data Consistent with this Record? Yes No

Cask Seal No. Yes No

Shipment No. Yes No

Sample No. Yes No

B-104 Core 89 Segment #2 riser #7

DATE: 06-15-95

P.C. Jaiduk JO

Sample # 95-093

Temp. = 80.4°F Humidity = 37%

Sampler SERIAL # 94-257

VIDEO TAPE # 6 TITLE B-FARM

LABCORE #

WORKLIST # 1586

Dose Rate through Drill string 38 mR/hr.

FRAME # 778

weights 20g = 19.99 grams 500g = 499.98 grams

Liner Liquid:

25 ml's Liner liquid DID NOT RETAIN.

DRAINABLE LIQUID:

(NO DRAINABLE LIQUID)

Sample Description: (B-104 Core 89 Segment #2 riser 7)

EXTRUDED FULL 19 inches of sample. (Sludge sample)
 Sample was olive yellow-mustard color with green
 patches throughout. Surface was smooth, WET, retained it's
 shape AFTER EXTRUSION AND melted HALF WAY AFTERWARDS.

Sample Description: (B-104 Core 89 Segment #2 riser #7)
LOWER HALF SOLIDS

JAR # 7245 (250mls)

FINAL WT. 367.30 grams

INITIAL WT. ~~514~~ 222.95 grams

NET WT. 144.35 grams

B-104 Core 89 Segment #2 riser #7

Sample Description: B-104 Core 89 Segment #2 riser #7 (Upper Half Solid)

JAR # 7246 (250mls)

FINAL WT. 371.23 grams

INITIAL WT. 221.78 grams

NET WT. ~~149.45~~ TLO 6-15-75

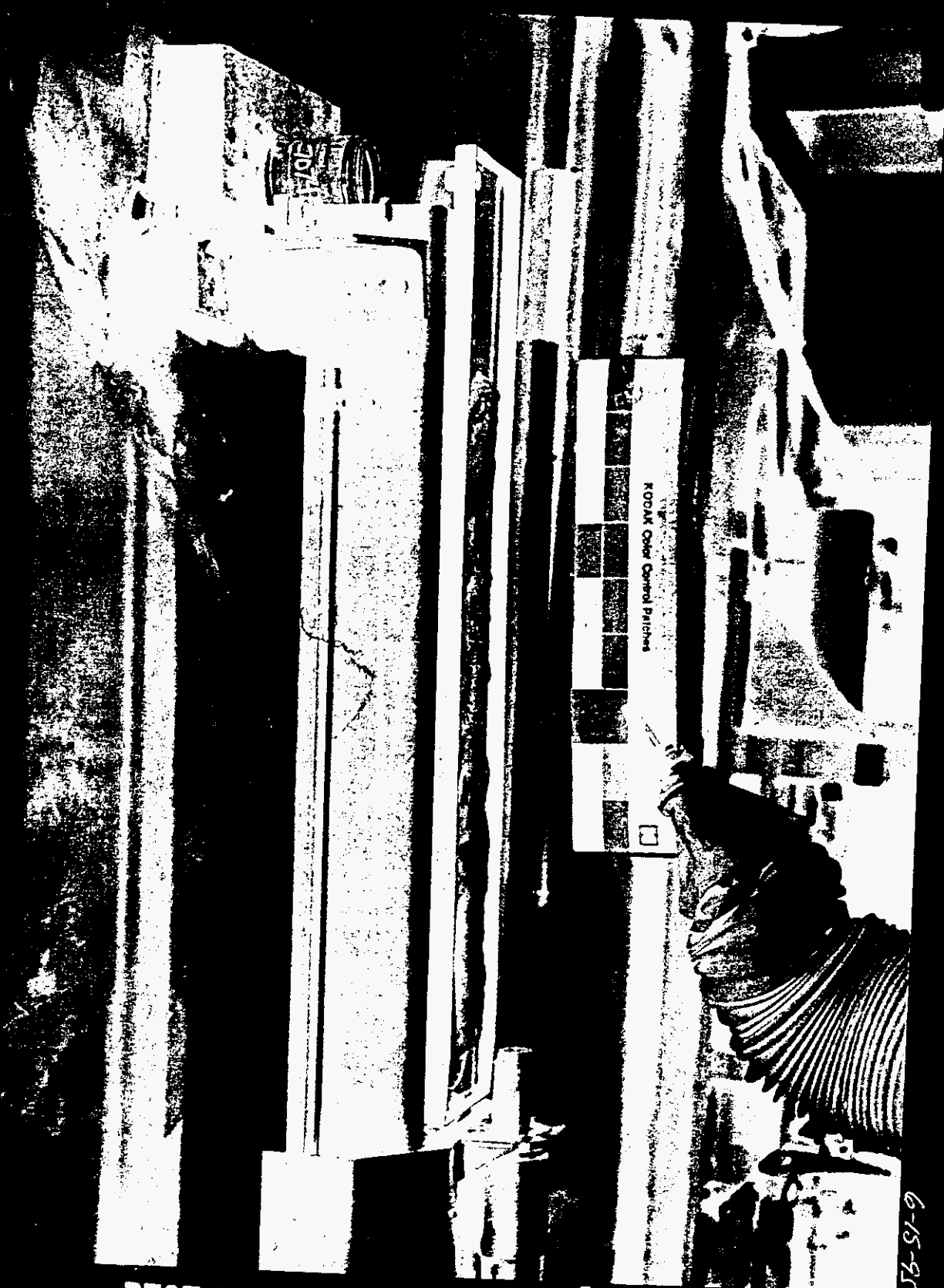
NET WT. 149.45 grams

NOTES: EXTRUSION SAMPLE TAKEN APPROX. 2 HRS AFTER
 EXTRUSION TOOK PLACE. SAMPLE REMAINED ON TRAY FOR APPROX.
 2 HRS. FROM 09:33 - 12:00 DUE TO THE POWER OUTAGE
 THAT OCCURED, BEFORE IT WAS SUBSAMPLED. OTHER THAN
 THAT EXTRUSION WENT WELL, SUBSAMPLED IN 1/2 SEGMENTS
 FULL 19 inches.

TLO
 6-15-75

B-104 Core 89 Segment #2 riser #7
(photography)

WHC-OD-WM-OP-137, REV. 1



B-104 Core 89 Segment #2

6-15-95
Dyoback

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Subsample - Homogenization
 Tank: B-104 CORE 88 Segment: 3 Riser: 2

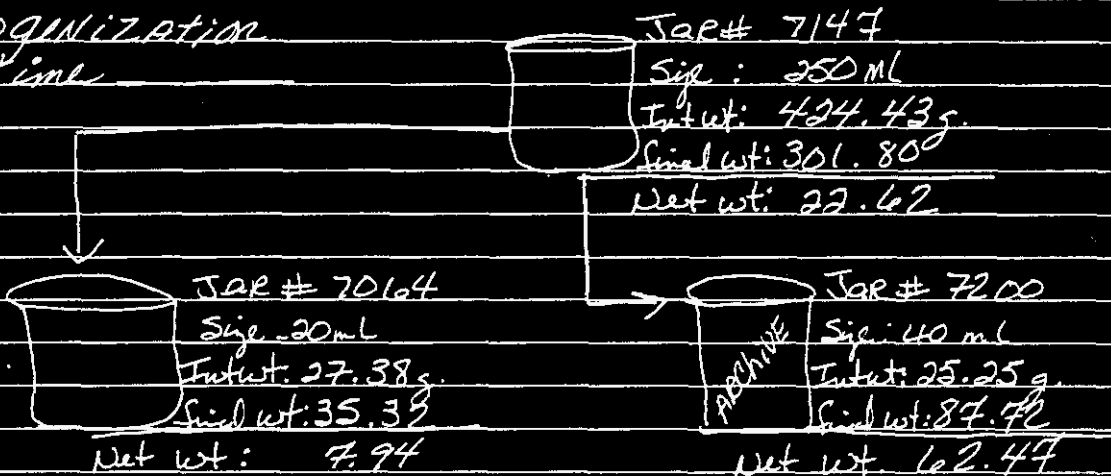
6/14/95

Hot Cell wts: 20g 19.99
 wt: 500g 499.80

Hot Cell Temp: 77.4°
 Humidity: 46%

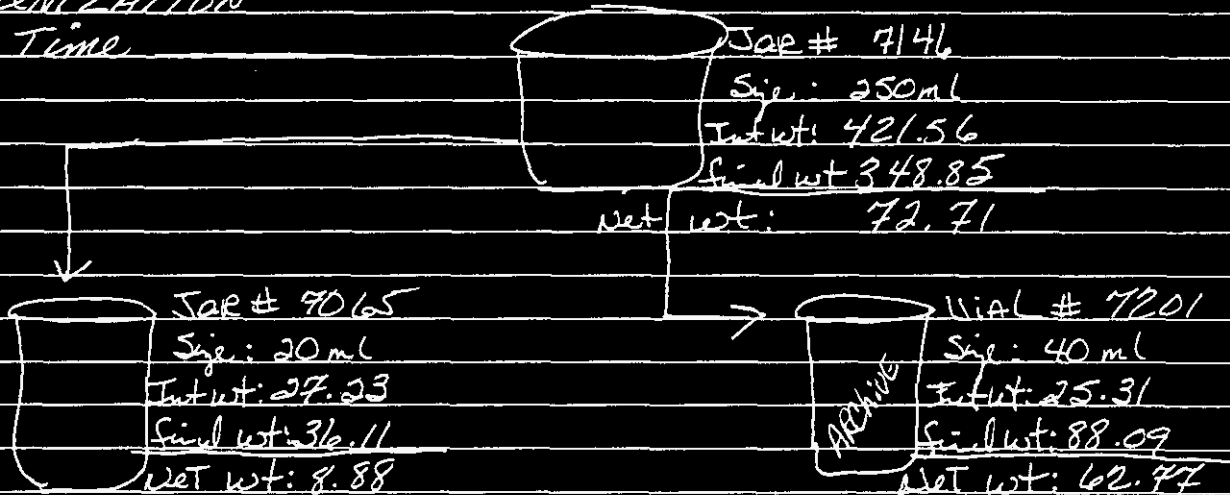
Homogenization

Time



Homogenization

Time



Requestor: JAINUK JOE
 Sub sampler: R. Hunter

Small black dots noted in sample during subsampling...

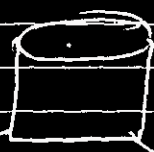
Some of the sample in jar # 7147 was spilled from the jar as the lid was being placed back on after subsampling.

Ruthless Hunter 6/13/95 81

6/14/95

Homogenization + Subsampling

Tank B-104 Core 88 Seq-Field blank Run 2

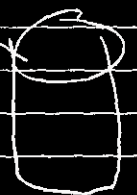


Jar # 7237 (250ml)
initial WT. 466.66 gm
Final WT. 341.44 gm
Net WT 125.22 gm



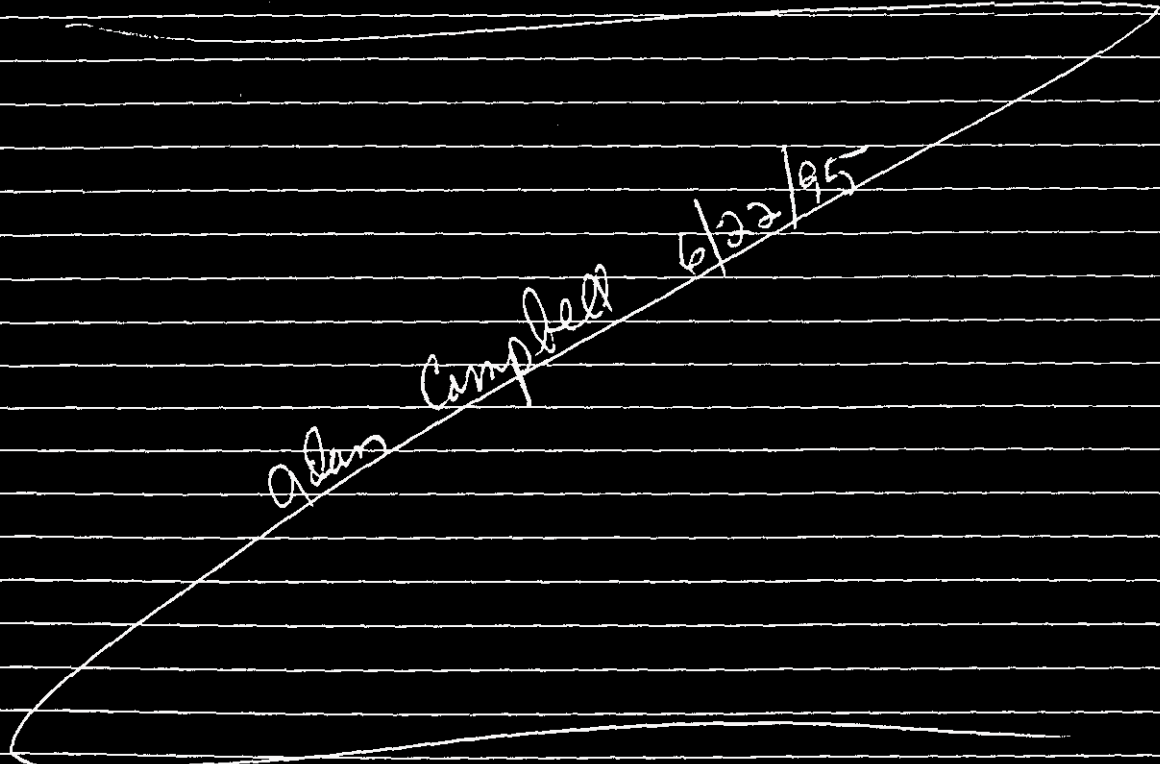
DSC
TGA
@ 100°C
@ 10°C/min
@ 10-61

Jar # 7213 (40ml)
initial WT 25.44 gm
Final WT 63.31 gm
Net WT 37.87 gm



Archive
Jar # 7213 (40ml)
initial WT 25.35 g
Final WT 68.03 g
Net WT 42.68 g

40 ml for Archive.
Shake # Jar 7237 for 1 min



9 days completed 6/22/95

B-104 Core 89 Segment 3 Riser 7

54

COPY

CHAIN-OF-CUSTODY RECORD FOR CORE SAMPLING

(1) Shipment Number SP-95-026 (2) Sample Number 95-094 (3) Supervisor D. Hartley (8) Cask Serial Number 0953
 (4) Tank B104 (5) Riser 77 (6) Segment 3 (7) Core 89

(10) Shipment Description

A. Work Package Number ES-95-00209
 B. Cask Seal Number 2779
 C. Sampler Serial Number 94-269
 D. Date and Time Sampler Unseated 6-13-95, 0947
 E. Expected Liquid Content 30%
 F. Expected Solid Content 70%
 G. Dose Rate Through Drill String 40mV/HR
 H. Expected Sample Length 19"

(33) LABORATORY

Radiation Survey Data:

(9) FIELD

Over Top Dose Rate 40.5 mV/HR
 Side Dose Rate 40.5 mV/HR
 Bottom Dose Rate 1 mV/HR
 Smearable Contamination 420 apm

(Alpha) _____
 (Beta-Gamma) _____
 (Signature) _____

RCT* (HPT) _____ RCT* (HPT) _____

(11) INFORMATION (Include statement of laboratory tests to be performed.)
WHC-SD-WM-TP-349

(12) Field Comments
Hydrostatic Head Fluid Used

(13) Point of Origin <u>241 B-104</u>	(14) Destination <u>222's LAB</u>	(15) Sender Name (Sign and PRINT) <u>D. Hartley</u>	(16) Date/Time <u>6/13/95</u>	(17) Sender Comments
(19) Relinquished By (Sign and PRINT) <u>D. Hartley</u>	(20) Received By (Sign and PRINT) <u>John D. Helms</u>	(21) Date/Time <u>6/15/95</u>	(22) Receiver Comments	
(23) Relinquished By (Sign and PRINT) <u>John D. Helms</u>	(24) Received By (Sign and PRINT) <u>John D. Helms</u>	(25) Date/Time <u>6-23-95</u>	(26) Receiver Comments	
(27) Relinquished By (Sign and PRINT)	(28) Received By (Sign and PRINT)	(29) Date/Time	(30) Receiver Comments	

(18) Seal Intact Upon Release? Yes No

(31) Seal Intact Upon Receipt? Yes No

(32) Seal Data Consistent with this Record? Yes No

Shipment No. Yes No

Cask Seal No. Yes No

Sample No. Yes No

June 19, 1995

B-104 Core 89 Segment #3 Riser #7

55

Date: June 19, 1995

Check weights: 20g = 20.002 grams 500g = 499.999 grams

PC: John Conner (acting for Jaiduk Jr)

Sample #: 95-094

Samples Serial #: 94-269

Video Tape # 6 Title - B Farm (1030-1036)

Labcore #

Worksheet # 1637

Dose Rate through Drill string: 40 mL/hr

Film Frames # 1, 2 (@ 1038)

Free Liquid: < 5 mL free liquid / did not retain

Drainable Liquid: No Drainable Liquid Present

Sample Description: B-104 Core 89 Segment #3 Riser #7

Extruded full 19 inches of sample. Sample was a dark yellow/mustard colored sludge with a few black specks present in the upper half of the sample. Surface of sample was smooth and wet and did not hold its shape on the tray after extrusion.

Sample Description: B-104 Core 89 Segment #3 Riser #7 /
Lower Half Solids

Can # 7247 (250 ml)

Final wt. 368.875 g

Initial wt. 220.842 g

Net wt. 148.033 g

Sample Description: B-104 Core 89 Segment #3 Riser #7 /
Upper Half Solids

Can # 7248 (250 ml)

Final wt. 377.741 g

Initial wt. 220.252 g

Net wt. 157.489 g

56

B-104 Core 89 Segment #3 Riser #7

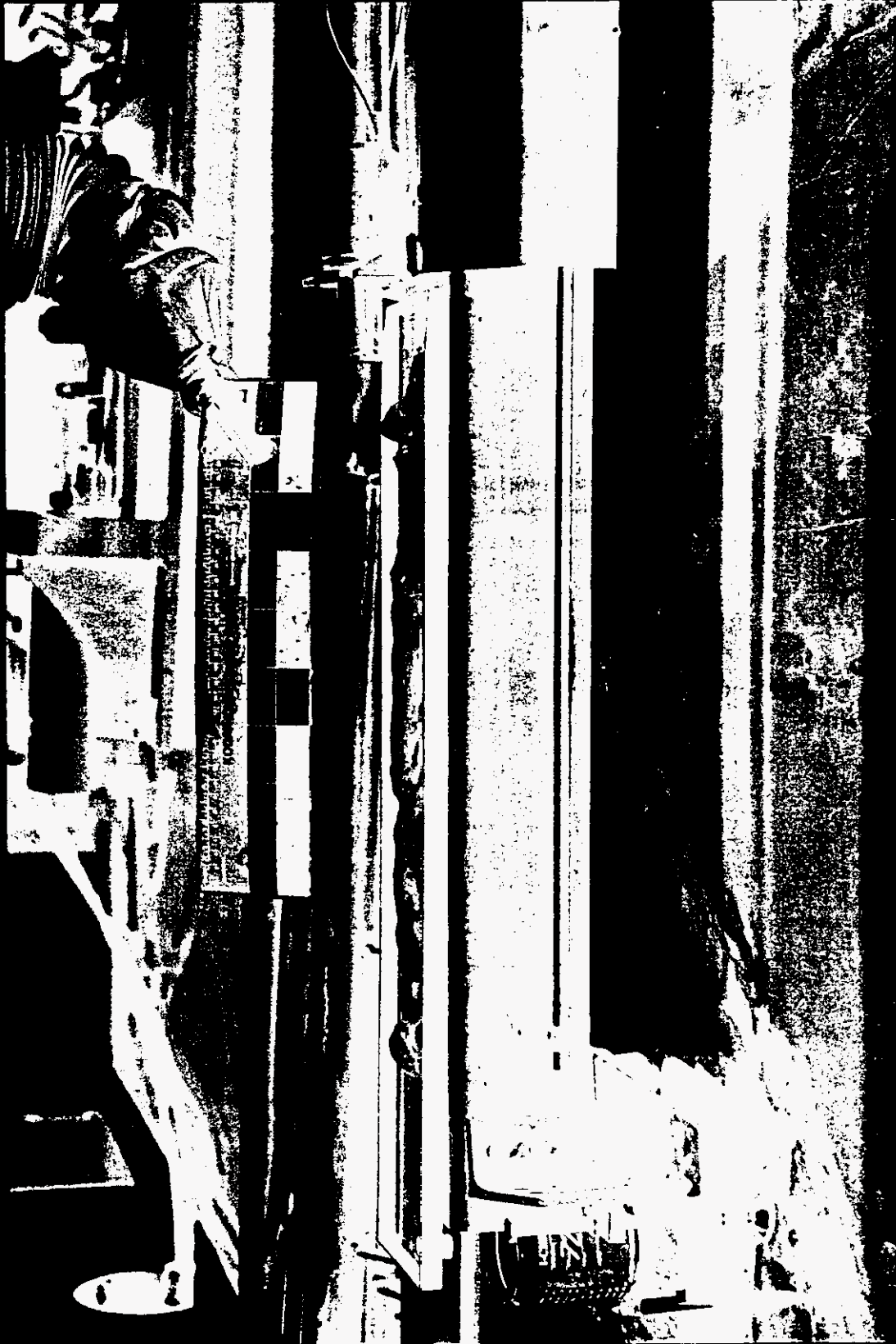
WHC-SD-WM-DP-132, REV. 1

~~A 179~~
6-20-95

B-104 Core 89 Segment #3 Riser #7
Photography

06-19-95

B-104 Core 89 Segment 3



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B-104 Core 89 Segment # 4 Riser # 7

COPY

CHAIN-OF-CUSTODY RECORD FOR CORE SAMPLING

(1) Shipment Number SP-95-025 (2) Sample Number 95-09895 (3) Supervisor M.C. Jones
 (4) Tank B-104 (5) Riser 7 (6) Segment 04 (7) Core 89 (8) Cask Serial Number C-1028

Radiation Survey Data:

(9) FIELD

Over Top Dose Rate <0.5 me/hr

Side Dose Rate 1 me/hr

Bottom Dose Rate 1 me/hr

Smearable Contamination 20 dpm (Alpha)

1K dpm (Beta-Gamma)

ECT* (HPT) R. Burtone RCT* (HPT) [Signature]

(10) Shipment Description

A. Work Package Number ES-95-00209

B. Cask Seal Number 17855 1796

C. Sampler Serial Number 94-162

D. Date and Time Sampler Unseated 6-13-95 19:04

E. Expected Liquid Content 30%

F. Expected Solid Content 70%

G. Dose Rate Through Drill String 39 mR/hr

H. Expected Sample Length 19"

(11) INFORMATION (Include statement of laboratory tests to be performed.)

WTC-SD-WM-TP-349

(12) Field Comments Head Field was used

(13) Point of Origin B-104 (14) Destination 2225

(15) Sender Name (Sign and PRINT) [Signature] (16) Date/Time 6-15-95

(17) Sender Comments

(19) Relinquished By (Sign and PRINT) [Signature] (20) Received By (Sign and PRINT) [Signature]

(21) Date/Time 6-15-95 (22) Receiver Comments

(23) Relinquished By (Sign and PRINT) [Signature] (24) Received By (Sign and PRINT) [Signature]

(25) Date/Time 6-15-95 (26) Receiver Comments

(27) Relinquished By (Sign and PRINT) [Signature] (28) Received By (Sign and PRINT) [Signature]

(29) Date/Time 6-15-95 (30) Receiver Comments

(31) Seal Intact Upon Receipt? Yes No

(32) Seal Data Consistent with this Record? Yes No

Shipment No. Yes No

Cask Seal No. Yes No

Sample No. Yes No

June 19, 1995

WHC-DD-WM-OP-132, REV. 1

59

B-104 Core 89 Segment # 4 Riser # 7

Date: June 19, 1995

Check Weights: 20g = 19.994 grams 500g = 499.989 grams

PC: John Conner (Acting for Jaiduk Jr)

Sample #: 95-095

Sample Serial #: 94-162

Video Tape # 6 Little - B Farm

Labcore #: S95T001119

Worklist #: 1638

Dose Rate Thru Drill String: 39 mR/hr

Film Frame #: 34

Hot Cell Temp / Humidity: 82.7°F / 39%

Liner Liquid: < 5 ml. liner liquid / did not retain.

Drainable Liquid: No Drainable Liquid Present.

Sample Description: B-104 Core 89 Segment # 4 Riser # 7

Extruded full 19 inches of sample. Sample was a dark yellow/tan colored sludge with a few black specks interspersed throughout the entire segment. Surface of the sample was smooth and wet and the sample did not hold its shape on the tray.

Sample Description: B-104 C 89 Seg 4 Riser 7 Lower Half Solids

Can # 7249 (250 ml)

Final wt. 411.578 g

Initial wt. 220.991 g

net wt. 190.587 g

Sample Description: B-104 C 89 Seg 4 Riser 7 Upper Half Solids

Can # 7250 (250 ml)

Final wt. 393.427 g

Initial wt. 223.082 g

net wt. 170.345 g

60

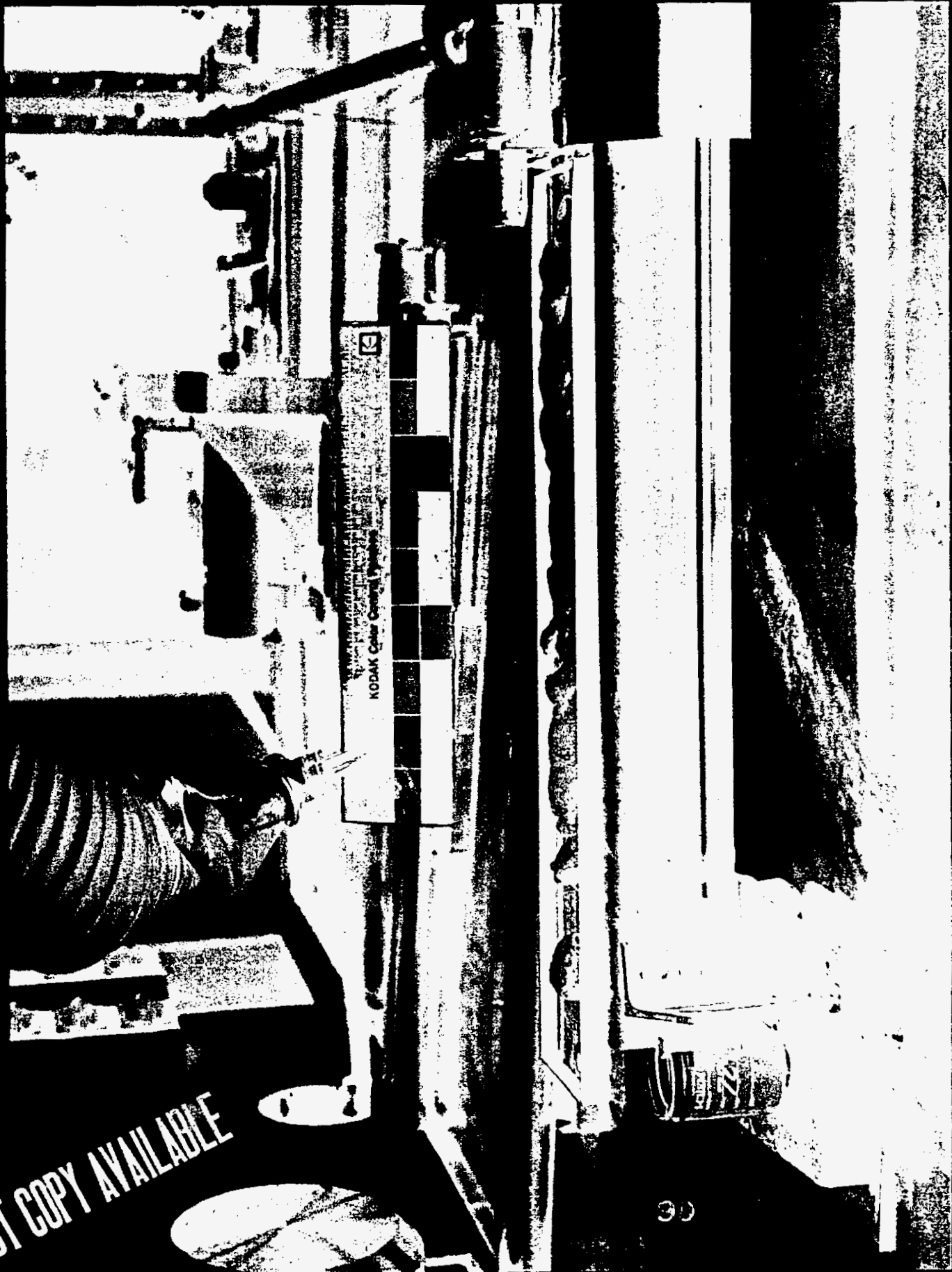
B-104 Core 89 Segment # 4 Riser # 7

Photography

WWIC-SD-WM-OP-137 REV. 1

06-19-97

B-104 Core 89 Segment 4



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COPY

CHAIN-OF-CUSTODY RECORD FOR CORE SAMPLING

(1) Shipment Number SP-95-025 (2) Sample Number 95-07296 (3) Supervisor M.C. Jones
(4) Tank B-104 (5) Riser 7 (6) Segment 05 (7) Core 89 (8) Cask Serial Number 1010-C

Radiation Survey Data:		(9) FIELD	(33) LABORATORY	(110) Shipment Description	
Over Top Dose Rate	<u><0.5 mR/hr</u>		<u>2.5 mR/hr</u>	A. Work Package Number	<u>ES-95-00209</u>
Side Dose Rate	<u>1 mR/hr</u>		<u>1 mR/hr</u>	B. Cask Seal Number	<u>7756</u> ^{MCS} <u>1795</u>
Bottom Dose Rate	<u>1 mR/hr</u>		<u><0.5 mR/hr</u>	C. Sampler Serial Number	<u>95-025</u>
Smearable Contamination	<u><20 dpm</u>		<u><20</u>	D. Date and Time Sampler Unseated	<u>6-13-95/20:05</u>
	(Alpha)		(Alpha)	E. Expected Liquid Content	<u>30%</u>
	<u><1K dpm</u>		<u><1K</u>	F. Expected Solid Content	<u>70%</u>
	(Beta-Gamma)		(Beta-Gamma)	G. Dose Rate Through Drill String	<u>39 MR/HR</u>
RCT* (HPT)	<u>RK Bultrona</u> (Signature)	RCT* (HPT)	<u>[Signature]</u> (Signature)	H. Expected Sample Length	<u>19"</u>

(11) INFORMATION (Include statement of laboratory tests to be performed.)
WHC-SD-WM-TP-349

(12) Field Comments <u>HEAD FILID WAS USED.</u>	(13) Laboratory Comments
--	--------------------------

(13) Point of Origin <u>241-B-104</u>	(14) Destination <u>2225</u>	(15) Sender Name (Sign and PRINT) <u>DeBartley R. Hartney</u>	(16) Date/Time <u>6-15-95</u> <u>6:50 PM</u>	(17) Sender Comments
(19) Relinquished By (Sign and PRINT) <u>DeBartley R. Hartney</u>	(20) Received By (Sign and PRINT) <u>[Signature]</u> <u>GL Swick</u>	(21) Date/Time <u>06-15-95 08:53</u>	(22) Receiver Comments	
(23) Relinquished By (Sign and PRINT) <u>[Signature]</u> <u>GL Swick</u>	(24) Received By (Sign and PRINT) <u>[Signature]</u>	(25) Date/Time <u>6-15-95 09:00</u>	(26) Receiver Comments	
(27) Relinquished By (Sign and PRINT)	(28) Received By (Sign and PRINT)	(29) Date/Time	(30) Receiver Comments	

(18) Seal Intact Upon Release? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	(31) Seal Intact Upon Receipt? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	(32) Seal Data Consistent with this Record? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
Shipment No. <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	Cask Seal No. <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	Sample <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No

WHC-SD-WM-TP-152, REL. 1

B-104 Core 89 Segment #5 Riser #7

Date: June 20, 1995

Check Weights: 20g = 20.000 grams 500g = 499.988 grams

PC: Jaiduk jr

Sample #: 95-096

Sample Serial #: 95-025

Video Tape #6 Title - B Team

Lab core #: 595T001120

Worksheet #: 1639

Flow Rate through Drill String: 39 mL/hr

Film Frame #:

Hot Cell Temp / Humidity: 77.6°F / 31%

Free Liquid: < 5 ml. / did not retain

Drainable Liquid: No Drainable Liquid Present

Sample Description: B-104 Core 89 Segment #5 Riser #7

Extended full 19 inches of sample. Sample was a dark yellow/tan colored sludge with embedded black specks throughout the sample. The surface of the sample was smooth and damp. The sample held its shape when extended onto the tray.

Sample Description: B-104 Core 89 Segment #5 Riser #7 Lower Half Solids

Jar # 7251 (250 ml)

Final wt. 423.435 grams

Initial wt. 219.849

Net wt. 203.586 grams

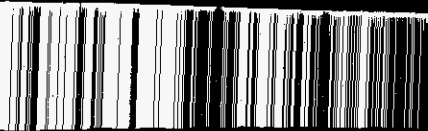
Sample Description: B-104 Core 89 Segment #5 Riser #7 Upper Half Solids

Jar # 7252 (250 ml)

Final wt. 429.182 grams

Initial wt. 221.094

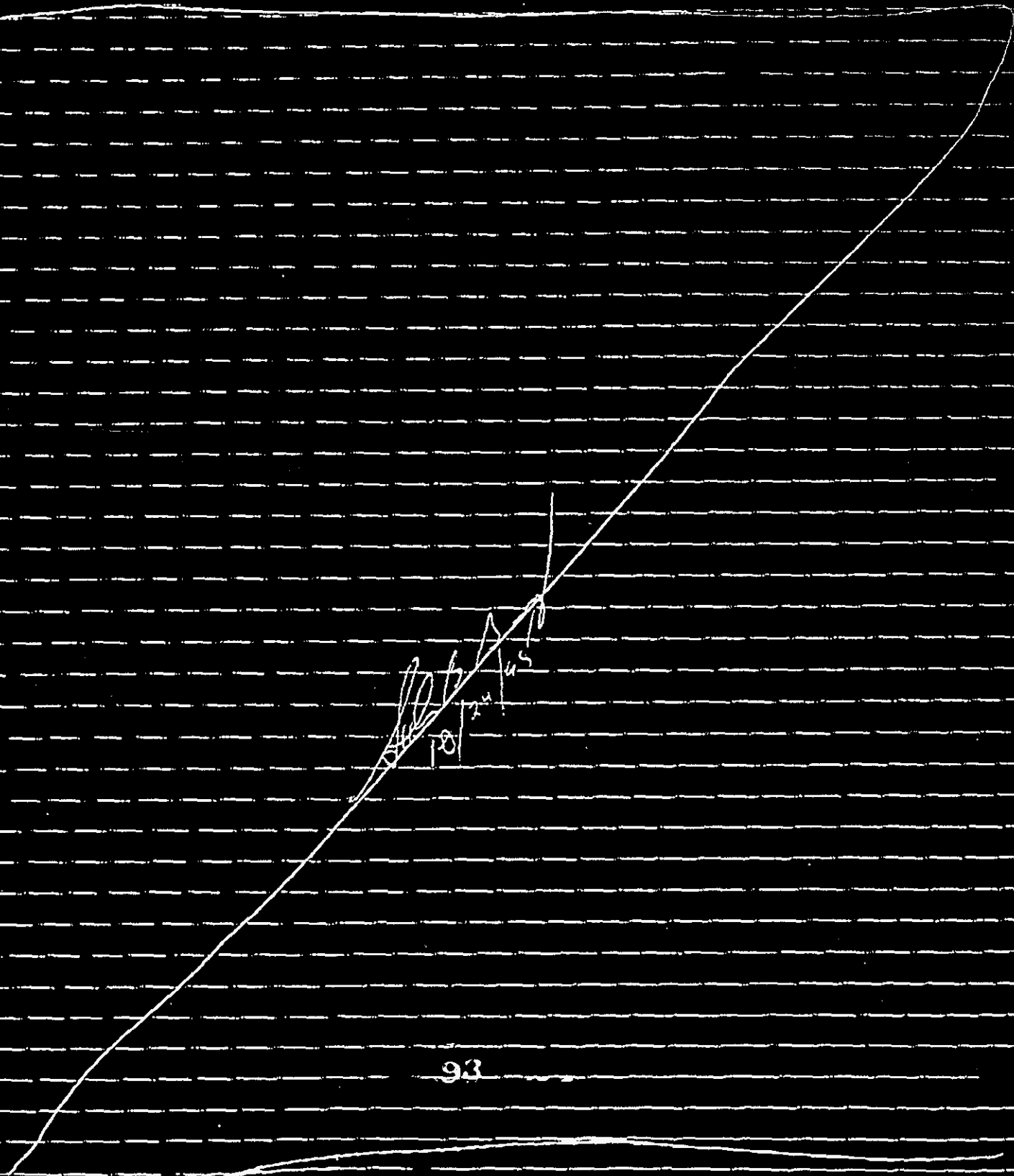
Net wt. 208.088 grams



WHC-SD-WM-DP-137, REV. 1

64,

B-104 Core 89 Segment #5 Riser #7



B-104 Core 89 Segment #5 Riser #7
Photography

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06-20-95

B-104 Core 89 Segment 5



COPY

CHAIN-OF-CUSTODY RECORD FOR CORE SAMPLING

(1) Shipment Number SP-95-025 (2) Sample Number 95-09897 (3) Supervisor M.C. Jones (8) Cask Serial Number SV-23-6
 (4) Tank B-104 (5) Riser 7 (6) Segment 6 (7) Core 89

Radiation Survey Date:		(9) FIELD		(10) Shipment Description	
Over Top Dose Rate	<u>405/mc</u>	<u>L.D.</u>		A. Work Package Number	<u>ES-95-00209</u>
Side Dose Rate	<u>1 mc/hr</u>	<u>1mc/hr</u>		B. Cask Seal Number	<u>7757 1794</u>
Bottom Dose Rate	<u>1 mc/hr</u>	<u>L.D.</u>		C. Sampler Serial Number	<u>94-288</u>
Smearable Contamination	<u><20 dpm</u>	<u><20</u> (Alpha)		D. Date and Time Sampler Unseated	<u>6-13-95/20:59</u>
	<u><1K dpm</u>	<u><1K</u> (Beta-Gamma)		E. Expected Liquid Content	<u>30%</u>
RCT* (HPT)	<u>R. B. [Signature]</u>	RCT* (HPT)	<u>[Signature]</u>	F. Expected Solid Content	<u>70%</u>
	(Signature)		(Signature)	G. Dose Rate Through Drill String	<u>36 MR/HR</u>
				H. Expected Sample Length	<u>14"</u>

(11) INFORMATION (include statement of laboratory tests to be performed.)

WHC-SD-WM-TP-349

60

(12) Field Comments		(34) Laboratory Comments	
<u>Head Fluid used</u>			
(13) Point of Origin	(14) Destination	(16) Date/Time	(17) Sender Comments
<u>B-104</u>	<u>2225</u>	<u>6-15-95</u>	
(19) Relinquished By (Sign and PRINT)	(20) Received By (Sign and PRINT)	(21) Date/Time	(22) Receiver Comments
<u>Debra Zetter</u>	<u>[Signature]</u>	<u>06-15-95</u>	
(23) Relinquished By (Sign and PRINT)	(24) Received By (Sign and PRINT)	(25) Date/Time	(26) Receiver Comments
<u>[Signature]</u>	<u>[Signature]</u>	<u>6-15-95</u>	
(27) Relinquished By (Sign and PRINT)	(28) Received By (Sign and PRINT)	(29) Date/Time	(30) Receiver Comments
(18) Seal Intact Upon Release?		(32) Seal Data Consistent with this Record?	
<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	
Shipment No. <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No		Cask Sgal No. <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	
Sample No. <input type="checkbox"/> Yes <input type="checkbox"/> No			

June 20, 1995

67

B-104 Core 89 Segment #6 Riser #7

Date: June 20, 1995

Check weights: 50g = 19.998 grams 500g = 499.986 grams

PC: Jaiduk job

Sample #:

Sample Serial #:

Vialer Tape # 6, Title - B Farm

Label #:

Worklist #:

Dial Gate Through Drill String:

Alm. Temp #: 5, 6

Hot Cell Temp / Humidity: 77.4°F / 32%

Filter Liquid: < 5 ml. / did not retain

Drainable Liquid: No Drainable Liquid present.

Sample Description: B104 Core 89 Segment #6 Riser #7

Extruded a full 19 inches of sample. Sample was yellow olive in color with a few black specks embedded throughout sample. Sample was smooth and damp. Sample kept its shape when extruded onto the tray.

Sample Description: B104 Core 89 Segment #6 Riser #7 Lower half solids

Jar # 7253 (250 ml jar size)

Final wt. 427.446 grams

Initial wt. 221.049

Net wt. 206.397 grams

Sample Description: B104 Core 89 Segment #6 Riser #7 Upper half solids

Jar # 7254 (250 ml jar size)

Final wt. 424.077 grams

Initial wt. 223.080

Net wt. 200.997 grams

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B-104 Core 89 Segment # 6 Riser # 7



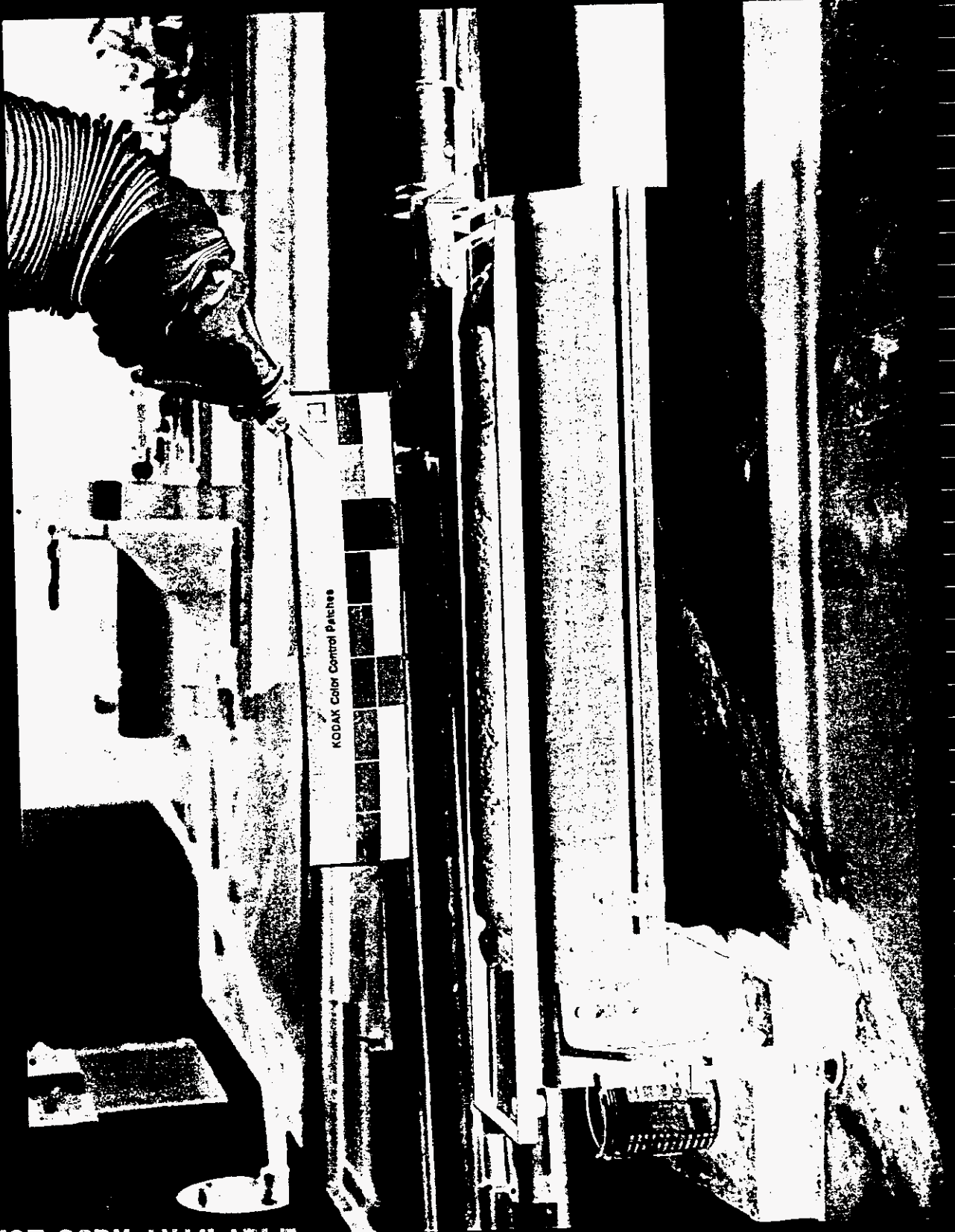
~~J. [unclear]~~
6-20-95

B-104 Core 89 Segment # 6 Riser # 7
Photography

69

06-20-95

B-104 Core 89 Segment 6



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COPY

CHAIN-OF-CUSTODY RECORD FOR CORE SAMPLING

(1) Shipment Number SP-95-026 (2) Sample Number 45094 95-048 (3) Supervisor Barthley (8) Cask Serial Number 4453000
 (4) Tank 241-B-104 (5) Riser #7 (6) Segment 3004 (7) Core 089

Radiation Survey Data:		(9) FIELD		(33) LABORATORY		(10) Shipment Description	
Over Top Dose Rate	<u><0.5 mR/hr</u>		<u>L.D.</u>	A. Work Package Number	<u>ES-95-00709</u>		
Side Dose Rate	<u><0.5 mR/hr</u>		<u>le mR/hr</u>	B. Cask Seal Number	<u>2766</u>		
Bottom Dose Rate	<u>0.5 mR/hr</u>		<u><1.5 mR/hr</u>	C. Sampler Serial Number	<u>95-018</u>		
Smearable Contamination	<u><20 apm</u>		<u><10 apm</u>	D. Date and Time Sampler Unsaturated	<u>6-14-95, 1017</u>		
				E. Expected Liquid Content	<u>7000</u>		
				F. Expected Solid Content	<u>7000</u>		
				G. Dose Rate Through Drill String	<u>46 mR/hr</u>		
				H. Expected Sample Length	<u>19' actual 17"</u>		

(11) INFORMATION (include statement of laboratory tests to be performed.)

WHC-SD-WM-349

(12) Field Comments		(34) Laboratory Comments	
<u>Hydraulic head fluid used bottom detector alarmed at 17'</u>			
(13) Point of Origin	(14) Destination	(15) Sender Name (Sign and PRINT)	(16) Date/Time
<u>241-B-104</u>	<u>2275</u>	<u>Barthley Barthley</u>	<u>6/15/95</u>
(17) Relinquished By (Sign and PRINT)	(18) Received By (Sign and PRINT)	(19) Sender Comments	(20) Receiver Comments
<u>Barthley Barthley</u>	<u>Wald Helms</u>		
(21) Relinquished By (Sign and PRINT)	(22) Received By (Sign and PRINT)	(23) Receiver Comments	(24) Receiver Comments
<u>Wald Helms</u>	<u>Wald Helms</u>		
(25) Relinquished By (Sign and PRINT)	(26) Received By (Sign and PRINT)	(27) Receiver Comments	(28) Receiver Comments
<u>Wald Helms</u>	<u>Wald Helms</u>		
(29) Seal Intact Upon Release?	(30) Seal Intact Upon Receipt?	(31) Seal Data Consistent with this Record?	(32) Seal Data Consistent with this Record?
<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No

June 20, 1995
71

WHC-SD-WM-OP-137, REV 1

B-104 Core 89 Segment #7 Riser #7

Date 06-20-95
 Temperature = 77.1°F Humidity 33%
 Weights = 20g = 19.99 grams 500g = 499.98 grams
 P.C. JAIDUK 50
 Sampler Serial # 95-018
 Video Tape # 6 Title B-FARM
 LABCORE # 595TDO1122
 WORKLIST # 1641
 Dose rate through Drill string 46 ml/hr
 Sample # 95-098
 FRAME # 9, 10

LINER LIQUID INFORMATION:

LINER LIQUID - Light Brown in color (opaque), (cloudy).
 JAR # 7202 (40mls)

FINAL WT 33.67 grams
 INITIAL WT 25.31 grams
 NET WT. 8.36 grams
 * Note: Discarded per P.C. instruction.

Sample Description: Drainable Liquid: B-104 Core 89 Segment 7 Riser 7

Vial # 7202 (40ml)
 Final wt. 33.67 grams
 Initial wt. 25.31
 Net wt. 8.36

J. P. 6/20/95

Drainable Liquid: No drainable liquid present.

Sample Description: B-104 C-89 Segment #7 Riser #7 Lower Half Solids

Jar # 7255 (250ml)
 Final wt. 433.734 grams
 Initial wt. 222.392
 Net wt. 211.342

20% 100 J. P. 10/18/95

B-104 Core 89 Segment #7 Riser #7

Sample Description: B-104 C-89 Segment #7 Riser #7 Upper Half Section

Can # 7256 (250 ml.)

Final wt. 435.152 grams

Initial wt. 222.451

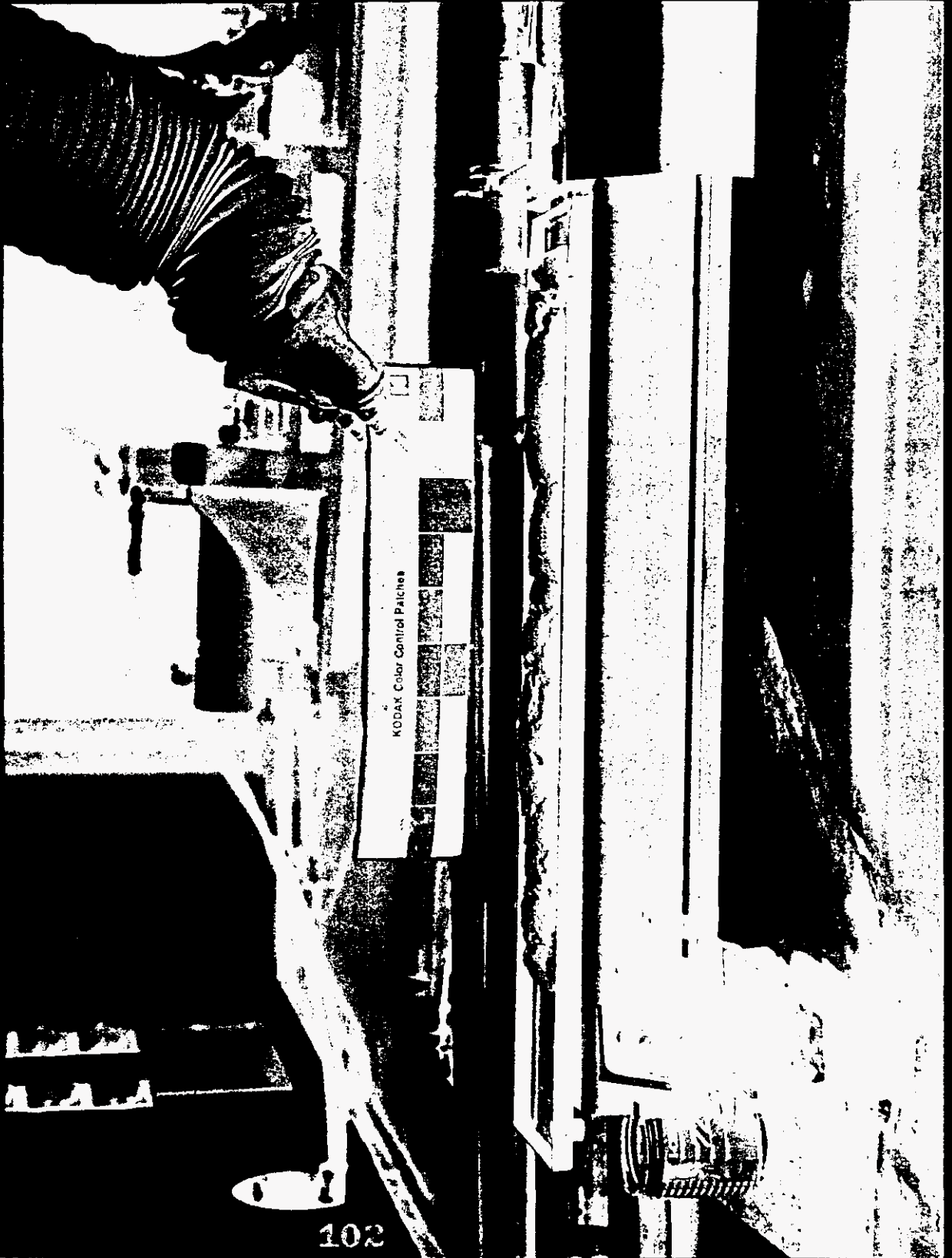
Net wt. 212.701

Sample Description: B-104 Core 89 Segment #7 Riser #7

Extruded full 19 inches of sludge, which was yellow/olive in color. The surface of the sample appeared smooth and damp. The sample held its shape on the tray.

06-20-95

B-104 Core 89 Segment 7

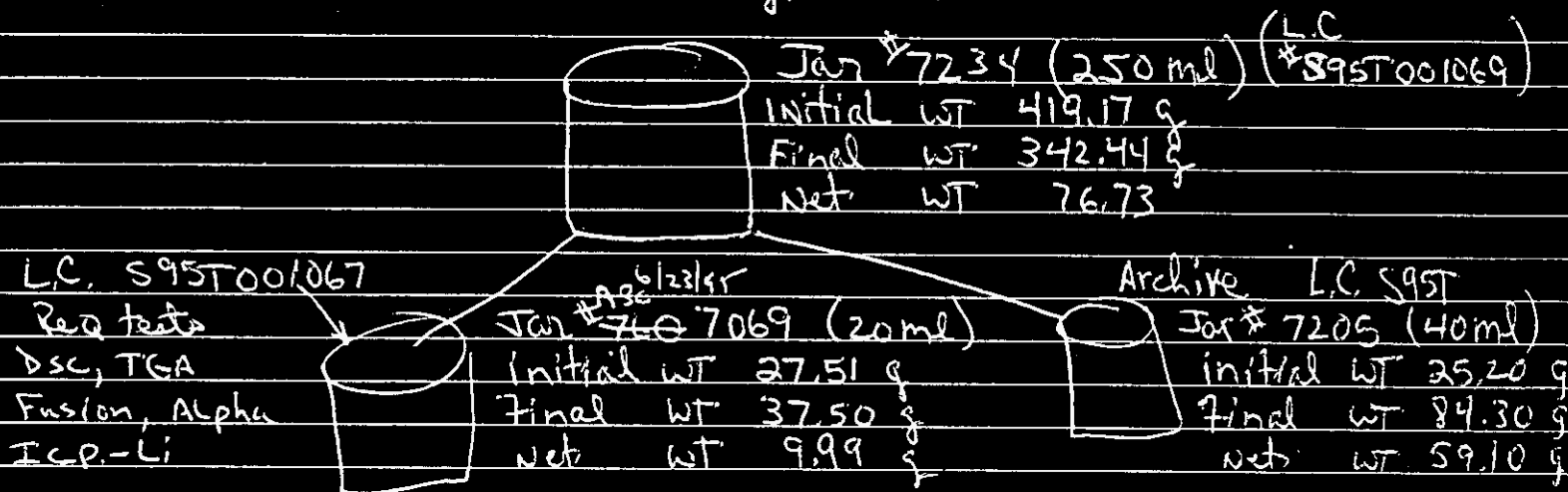


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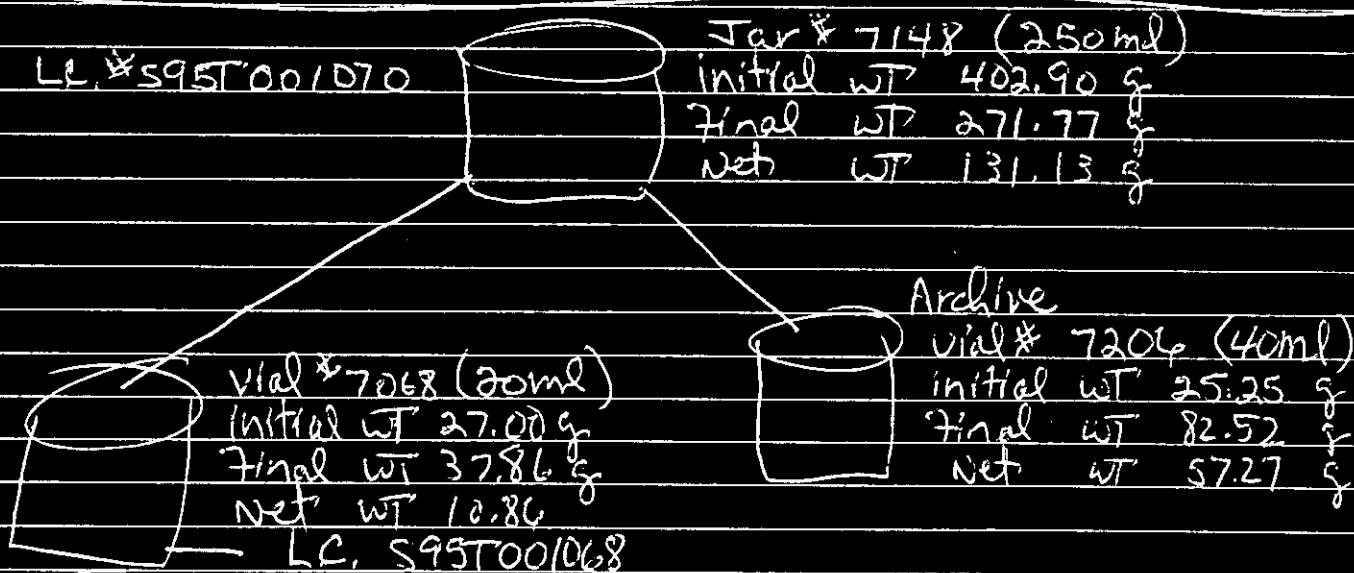
Homogenization + Subsampling

6-12-95

Tank B-107 Core 88 Segment #4 Run #2



pull 7g for Lab analysis + 40g for Archive
 CR INST WTS 20gm = 19.989 500 = 499.792gm



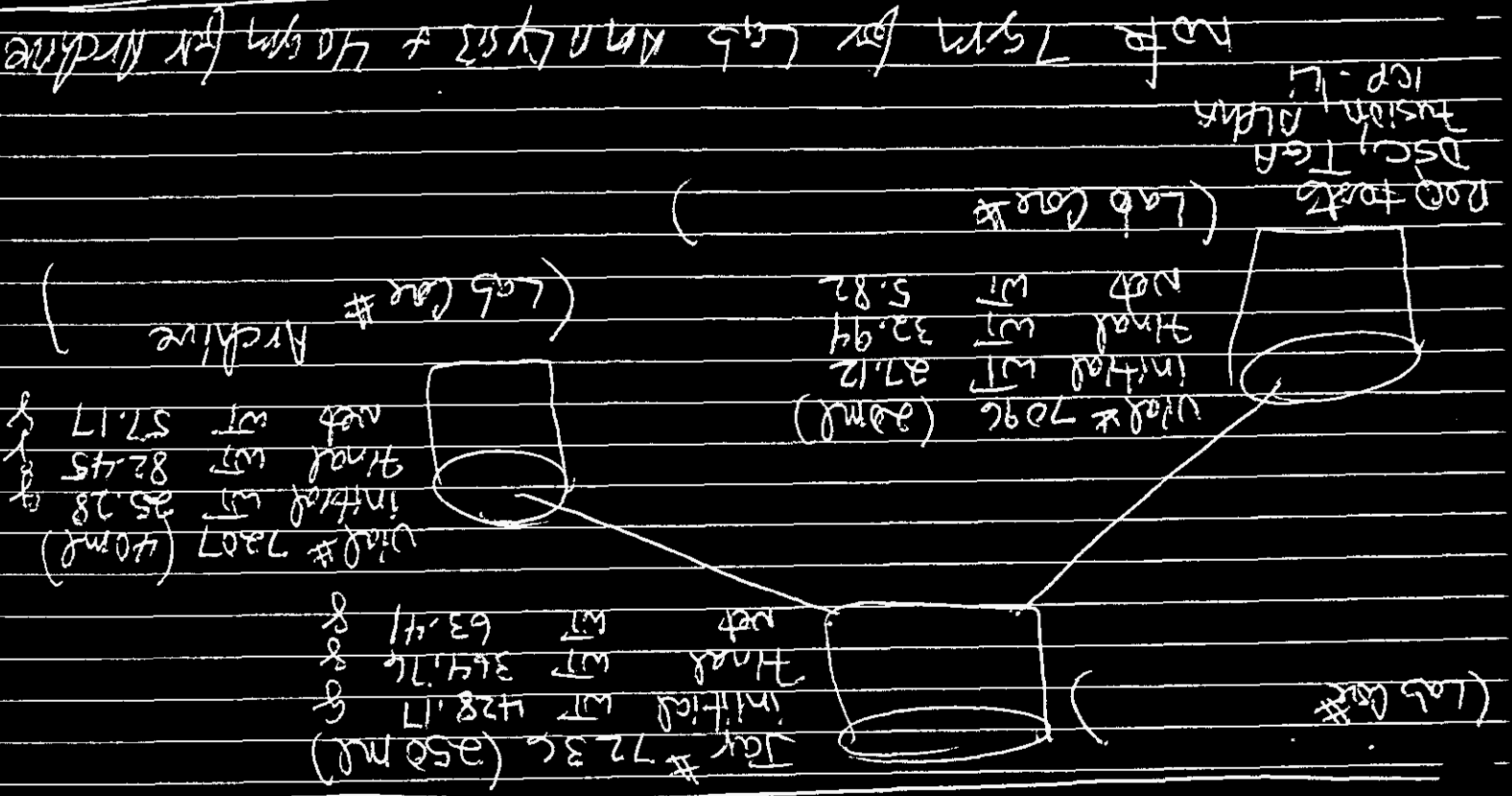
Req Tests
 DSC, TGA
 Fusion, Tot Alpha
 ICP-Li

Note: 7g for Lab analysis + 40gm for archive
 40 ml Vial #7207 was broken and replaced with #7206

Alan Campbell 6/23/95

75 6/12/95

Homegenization & subsampling
Tank B104 Core 88 Seg 5 Run 2



Man Campbell 6/23/95 102

6-14-95

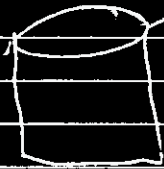
Homogenization + Subsampling

Tank B 104 Core 88 Segment 6 R-2

(Lab Core #)



Jar #7239 (250ml)
initial WT 440.22 g
Final WT 305.45 g
Net WT 134.77 g



Vial #7099 (20ml)
initial WT 27.72 g
Final WT 38.38 g
Net WT 10.66 g



Vial #7209 (40ml)
initial WT 25.43 g
Final WT 84.72 g
Net WT 59.29 g

(Archive) (Lab Core #)

Req tests

DSC, TGA

(Lab Core #)

Fusion, Alpha

ICP-Li

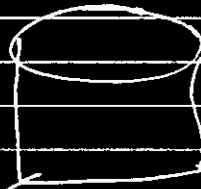
Note take 7g for Lab Analysis

inst ck wts. 20g = 19.98 500 gm = 499.785 gm

*7210 was Broken Hot Cell Temp 75.6 + Humidity 50%

Homogenized 7239 again for 5min before repulling Archive sample for #7211

(Lab Core #)



Jar #7238 (250ml)
initial WT 412.50 g
Final WT 337.15 g
Net WT 75.35 g



Vial #7098 (20ml)
Initial WT 27.12 g
Final WT 37.38 g
Net WT 10.26 g



Vial #7209 (40ml)
initial WT 25.43 g
Final WT 84.72 g
Net WT 59.29 g

(Archive) (Lab Core #)

Req Tests (Lab Core #)

DSC, TGA

Fusion Alpha

ICP-Li

Take 7gms for Lab Analysis

Hot Cell Temp + Humidity 75.6 + 50%

inst ck wts 20 = 19.98 500 = 499.785 105

Homogenization + Subsampling

6-14-95

Tank B104 Core 88 Segment 7 R-2

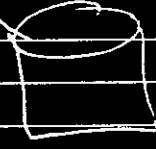
(Lab Core S95T001097)



Jar # 7240 (250ml) L.H. Solids
 initial WT 383.53 g
 Final WT 303.99 g
 Net WT 79.54 g



Vial # 7103 (20ml)
 initial wt 27.67 g
 Final wt 37.44 g
 net wt 9.77 g



Vial # 7217 (40ml)
 initial WT 25.34 g
 Final WT 84.91 g
 net WT 59.57 g
 Archive (Lab Core #)

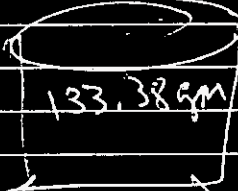
Req Tests

DSC, TGA (Lab Core # S95T00)

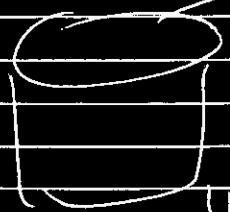
Fusion, Alpha

TCP-Li

(Lab Core S95T001098)



Jar # 7242 (250ml) upper half solids
 initial WT 357.05 g
 Final WT 288.68 g
 Net WT 68.37 g



Vial # 7102 (20ml)
 initial WT 27.06 g
 Final WT 36.18 g
 net WT 9.12 g

(Lab Core)



Vial # 7216 (40ml)
 initial WT 25.57 g
 Final WT 84.74 g
 net WT 59.17 g

Archive (Lab Core #)

Required tests

DSC, TGA

Fusion, Alpha

TCP-Li

Note Homogenize samples for 10 min

work List # 1659

78

Homogenization + Subsampling

6/22/95

Tank B-104 Core 89 Seq 2

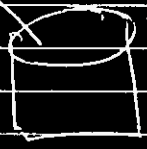
(Lab Core # 595T00111)



Jar # 7245 (250 ml) Lower Half Solids
 initial WT 367.0 g
 Final WT 299.1 g
 Net WT 67.9 g



Vial # 7110 (20ml)
 initial WT
 Final WT
 Net WT



Archive
 Vial # 7221 (40ml)
 initial WT 25.3 g
 Final WT 86.2 g
 Net WT 60.9 g
 (Lab Core # 595T001158)

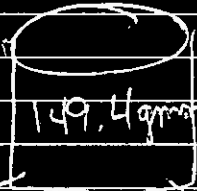
Req Tests

DSC, TGA (Lab Core # 595T001113)

Fusion, Alpha

ICP-Li

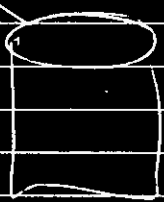
(Lab Core # 595T001112)



Jar # 7246 Upper half Solid
 initial WT 370.9 g
 Final WT 303.2 g
 Net WT 67.7 g



Vial # 7111 (20ml)
 initial WT 27.6 g
 Final WT 36.5 g
 Net WT 8.9 g



Vial # 7222 (40ml)
 initial WT 25.2 g
 Final WT 83.4 g
 Net WT 58.2 g
 Archive

Req Tests

DSC, TGA (Lab Core # 595T001114)

Fusion, Alpha

ICP-Li

(Lab Core # 595T001159)

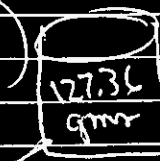
Plan Complete 6/23/95

Homogenization + Subsampling

6/22/95

B104 Core 89 Seq 2

(Lab Core #)



Jar # 7243 (250 ml) upper half solids
 initial WT 349.4 g
 Final WT 280.0 g
 Net WT 69.4 g



Vial # 7108 (20ml)
 initial WT 27.2
 Final WT 37.3
 Net WT 10.1



Vial # 7219 (40ml)
 initial WT 25.2 g
 Final WT 83.7 g
 Net WT 58.5 g

(Lab Core #)

Req tests (Lab Core #)

DSC, TGA

Fusion, Alpha

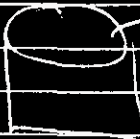
ICP-Li

Homogenize for 10 minutes.

(Lab Core #)



Jar # 7244 (250ml) Lower half solids
 initial WT 318.8
 Final WT 246.3
 Net WT 72.5



Vial # 7109 (20ml)
 initial WT 27.2 g
 Final WT 40.8 g
 Net WT 13.6 gmr



Vial # 7220 (40ml)
 initial WT 25.2 g
 Final WT 83.9 g
 Net WT 58.7 g

(Lab Core #)

(Lab Core #)

Req Tests

DSC, TGA

Fusion, Alpha, ICP-Li

Note: Homogenize for 10 minutes

(Lab Core #)



Jar # 7073 (125ml) Drainable Liquid



Vial # 7107 (20ml)
 initial w 27.0 g
 Final WT 39.4 g
 Net WT 12.4 g

103



Vial # 7218 (40ml)
 initial WT 25.1 g
 Final WT 79.2 g
 Net WT 54.1 g

(Lab Core #)

(Lab Core #)

Note: Do not Homogenize or Commince (6/23/95)

6/22/95

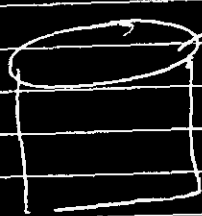
Homogenization + Subsampling

Tank B104 Core 89 Selg 3

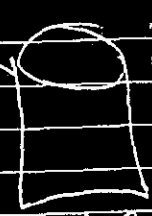
(Lab Core # 595T001128)



Tan # 7247 Lower half Solids
 initial WT 368.5 g
 Final WT 297.3 g
 Net WT 71.2 g



Vial # 7112 (20ml)
 initial WT
 final WT
 Net WT



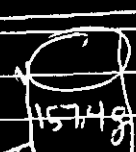
Vial # 7223 (40ml)
 initial WT 25.3 g
 Final WT 86.4 g
 Net WT 61.1 g
 Archive
 (Lab Core # 595T001160)

Req. Tests (Lab Core # 595T001130)

DSC, TGA
Fusion, Alpha
ICP-Li

Note Homogenize for ten minutes

(Lab Core # 595T001129)



Tan 7248 (250ml) upper half
 initial WT
 final WT
 Net WT



Vial # 7113 (20ml)
 initial WT 27.6 g
 Final WT 37.9 g
 Net WT 10.3 g



Vial # 7224 (40ml)
 initial WT 25.3 g
 Final WT 84.8 g
 Net WT 59.5 g
 Archive

Req tests (Lab Core # 595T001131)

DSC, TGA
Fusion, Alpha
ICP-Li

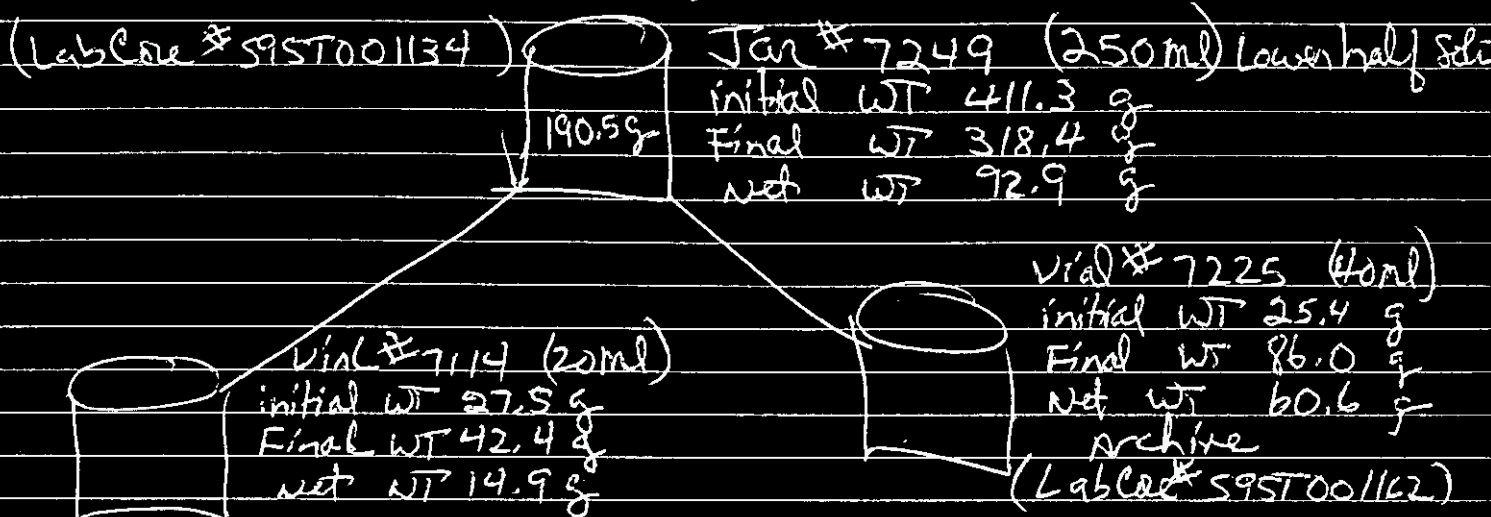
Note Homogenize for 10min

(Lab Core # 595T001161)

~~Plan Cancelled 6/23/95~~

Homogenization + Sub Sampling
Tank B 104 Core 89 Seg 4

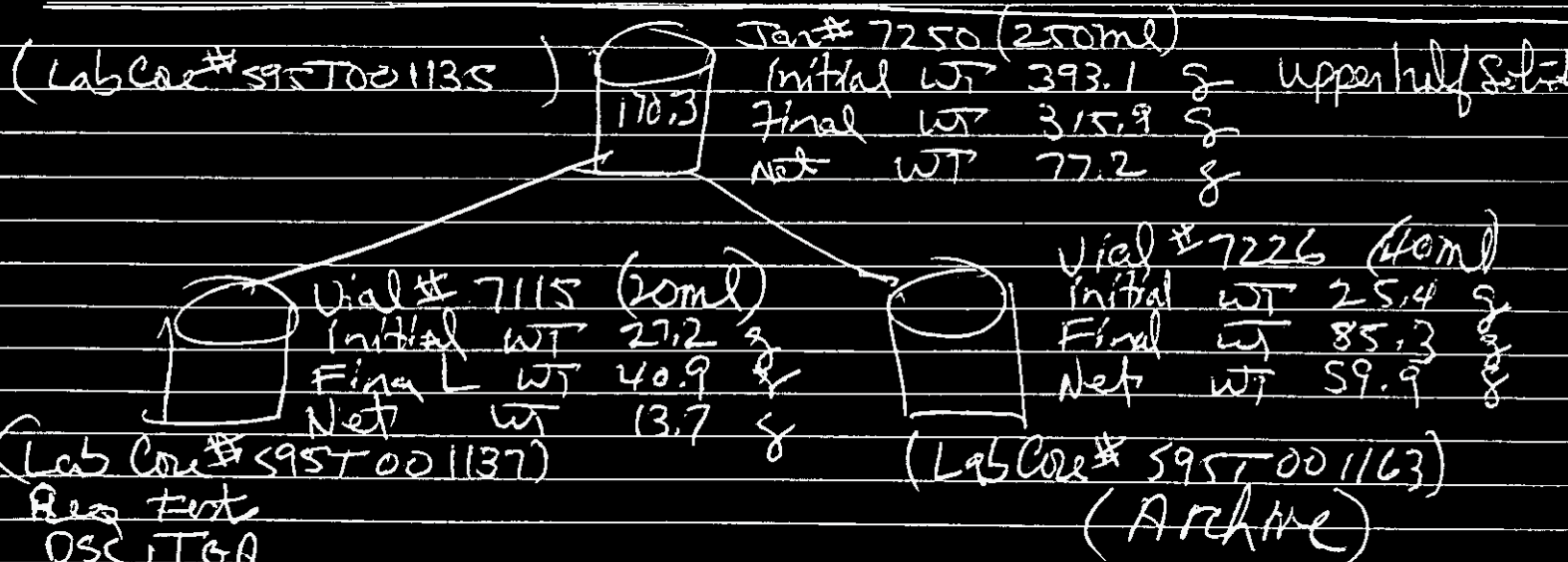
6/22/95



Req tests (Lab Core # S95T001136)

DSC, TGA, Fusion
Alpha, ICP-U

Note: Homogenized for 10 min (shook) some black particles on Bottom of jar.



(Lab Core # S95T001137)

Req tests
DSC, TGA
Fusion, Alpha
ICP-U

Note Homogenized for 10 min (shook) some black particles were on bottom of jar.

Alan Campbell 6/23/95

Homogenization + Subsampling

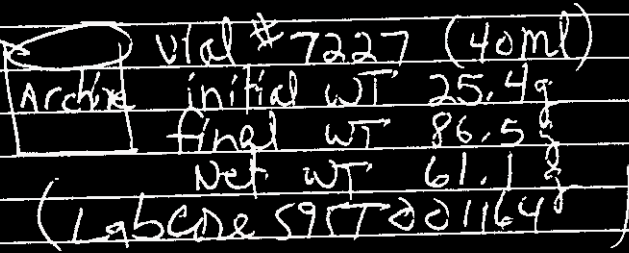
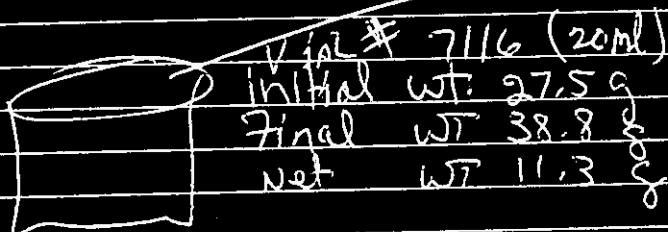
6/26/95

TANK B104 Core 89 Seq 5

(LabCore S95T001140)



Jar # 7251 (250ml)
 Initial WT 423.1 g
 Final WT 333.6 g
 Net WT 89.5 g



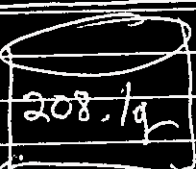
LabCore S95T001142

Req Tests

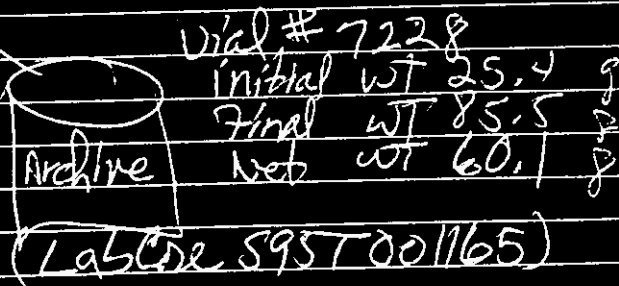
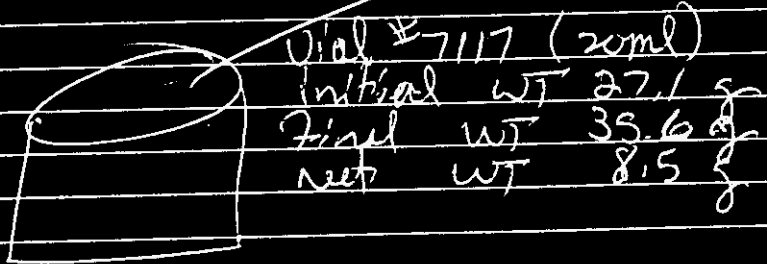
- DSC, TGA
- Fusion, Alpha
- ICP-Li

Note: Homogenized samples for 10 minutes.

(LabCore S95T001141)



Jar # 7252 (250ml)
 Initial WT 428.9 g
 Final WT 360.0 g
 Net WT 68.9 g



LabCore S95T001143

- Req Tests
- DSC, TGA
- Fusion, Alpha
- ICP-Li

Note: Homogenized samples for 10 min.

AB Campbell 6/26/95

Homogenization + Subsampling 6

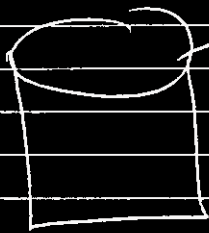
Tank B104 Core 89 Seg 6

Lower Half Solids

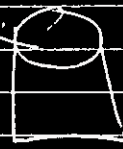
LabCore# S95T001146



Jar# 7253 (250ml)
initial WT 427.1 g
final WT 352.3 g
Net WT 74.8 g



Vial# 7118 (20ml)
initial WT 27.2 g
Final WT 36.7 g
Net WT 9.5 g



Vial# 7229 (40ml)
initial WT 25.3 g
Final WT 85.2 g
Net WT 59.9 g

(LabCore# S95T001166)
ARCHIVE

(LabCore# S95T001148)

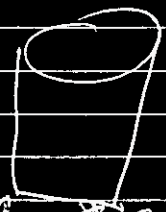
Req Tests

DSC, TGA, Fusion Alpha, ICP-LI Note: Homogenized for 10 minutes

(LabCore# S95T001147) (250ml)



Jar# 7254 Upper Half Solids
initial WT 423.6 g
Final WT 353.4 g
Net WT 70.4 g



Vial# 7119 (20ml)
initial WT 27.2 g
Final WT 36.2 g
Net WT 9.0 g



Vial# 7231 (40ml)
initial WT 25.2 g
Final WT 84.0 g
Net WT 58.8 g

(LabCore# S95T001149)

(LabCore# S95T001167)

Req Tests

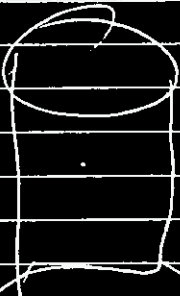
DSC, TGA, Fusion Alpha, ICP-LI Note: Homogenized for 10 minutes

~~Ann B Completed 6/26/95~~

Homogenization + Subsampling

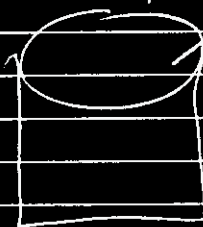
6/26/95

(Lab Core # S95T001152)



Jar # 7255 (250 ml)
 initial WT 433.3 g
 Final WT 353.6 g
 Net WT 79.7 g

Lab Analysis



Vial # 7120
 initial WT 27.5 g
 Final WT 38.8 g
 Net WT 11.3 g



Vial # 7232 (40 ml)
 initial WT 25.2 g
 Final WT 85.8 g
 Net WT 60.6 g

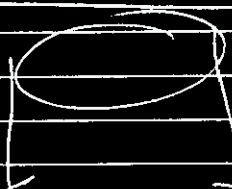
(Lab Core # S95T001168)
 Archive

(Lab Core # S95T001154) (Note: Homogenized for 10 minutes (Shook))

Req Tests

DSC, TGA, Fusion
 ALPHA, ICP-U

(Lab Core # S95T001153)



Jar # 7256 (250 ml)
 initial WT 434.7 g
 Final WT 363.0 g
 Net WT 71.7 g

Lab Analysis



Vial # 7121 (20 ml)
 initial WT 27.2 g
 Final WT 35.7 g
 Net WT 8.5 g



Vial # 7233 (40 ml)
 initial WT 25.5 g
 Final WT 86.4 g
 Net WT 60.9 g

(Lab Core # S95T001169)
 Archive

(Lab Core # S95T001155)

Req Tests

DSC, TGA, Fusion ALPHA, ICP-U

Note Homogenized for 10 min (Shook)

Alan Campbell 6/29/95

Composite

Date: 7-18-95

Tank - B-104 CORE: 89 Segments 1-7

Balance check = 10g. wt = 19.97g
 500g. wt = 499.83g Lower & upper halves

Temperature 73.8° And Humidity 39% in Hot Cell

Total number of jaw used to build the composite: (1) Jar # 7350 & Size 250 ml.

there was (14) segment jaws used and 20 grams from each jaw to composite into jar # 7350 each sample was Homogenized for 5 min or longer...

(A) Sample from segment jaw & amount of grams

- | | | |
|------|--------|--------------|
| 1.) | # 7244 | = 17.1 grams |
| 2.) | 7243 | = 20.4 grams |
| 3.) | 7245 | = 21.6 grams |
| 4.) | 7246 | = 24.6 grams |
| 5.) | 7247 | = 25.4 grams |
| 6.) | 7248 | = 23.7 grams |
| 7.) | 7249 | = 26.8 grams |
| 8.) | 7250 | = 22.1 grams |
| 9.) | 7251 | = 18.5 grams |
| 10.) | 7252 | = 44.2 grams |
| 11.) | 7253 | = 16.3 grams |
| 12.) | 7254 | = 29.2 grams |
| 13.) | 7255 | = 20.4 grams |
| 14.) | 7256 | = 15.9 grams |

B) The Total of grams collected in

composite jar # 7350 was = 326.2 grams.

By Kathleen Hunter

Requestor: J. To and R. Fuller

111

To Day Date 7/19/95

Date: 7-19-95

B-104 Core 89 Segments #1 - *7 Upper + Lower Stalls

Composite % Calculations in Jar # 7350.

$$(1) \text{ Jar } \# 7244 \quad \frac{17.1}{326.2} \times 100 = 5.2 \%$$

$$(2) \text{ Jar } \# 7243 \quad \frac{20.4}{326.2} \times 100 = 6.3 \%$$

$$(3) \text{ Jar } \# 7245 \quad \frac{21.6}{326.2} \times 100 = 6.6 \%$$

$$(4) \text{ Jar } \# 7246 \quad \frac{34.6}{326.2} \times 100 = 7.5 \%$$

$$(5) \text{ Jar } \# 7247 \quad \frac{25.4}{326.2} \times 100 = 7.8 \%$$

$$(6) \text{ Jar } \# 7248 \quad \frac{23.7}{326.2} \times 100 = 7.3 \%$$

$$(7) \text{ Jar } \# 7249 \quad \frac{26.8}{326.2} \times 100 = 8.2 \%$$

$$(8) \text{ Jar } \# 7250 \quad \frac{22.1}{326.2} \times 100 = 6.8 \%$$

$$(9) \text{ Jar } \# 7251 \quad \frac{18.5}{326.2} \times 100 = 5.7 \%$$

$$(10) \text{ Jar } \# 7252 \quad \frac{44.2}{326.2} \times 100 = 13.5 \%$$

$$(11) \text{ Jar } \# 7253 \quad \frac{16.3}{326.2} \times 100 = 5.0 \%$$

$$(12) \text{ Jar } \# 7254 \quad \frac{29.2}{326.2} \times 100 = 8.9 \%$$

$$(13) \text{ Jar } \# 7255 \quad \frac{20.4}{326.2} \times 100 = 6.3 \%$$

$$(14) \text{ Jar } \# 7256 \quad \frac{15.9}{326.2} \times 100 = 4.9 \%$$

Ruth/Ann Hunter 7/19/95

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Composite

Date 7/21/95

Task: B-104 CORE 88 Segment # 1-7 lower & upper half.

Balance Check: 20 grams = 19.98g.

500 grams = 499.83g.

Temperature in PIR Hot cell = 76.4°C Humidity = 43%

Total number of jars used to build the composite

P.#:
7/21/95

(1) Composite Jar # 7363 size 250ml.
there were (12) segment jars used, and 20 grams
from each jar were taken & homogenized for
5 min or longer for jar # 7363.

Sample segments jar # and amount of grams

- | | |
|------------|------------|
| 1) # 7144 | 16.9 grams |
| 2) # 7145 | 15.2 grams |
| 3) # 7147 | 19.8 grams |
| 4) # 7146 | 23.1 grams |
| 5) # 7234 | 30.6 grams |
| 6) # 7148 | 23.0 grams |
| 7) # 7235 | 16.9 grams |
| 8) # 7236 | 20.1 grams |
| 9) # 7238 | 21.0 grams |
| 10) # 7239 | 17.9 grams |
| 11) # 7240 | 21.3 grams |
| 12) # 7242 | 15.6 grams |

The Total of grams collected in Jar # 7363
was 241.4g.

B-104 core 88 Segment # 1-7 upper & lower half

Composite % calculation in Jar # ~~7363~~ 7363

① Jar # 7144 $\frac{16.9}{241.4} \times 100 = 7.0\%$

② Jar # 7145 $\frac{15.2}{241.4} \times 100 = 6.2\%$

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Cont Next
Pg

Composite % Calculations For B-104 CORE 88

7/21/95

$$(3) \text{ Jar \# 7147 } \frac{19.8}{241.4} \times 100 = 8.2\%$$

$$(4) \text{ Jar \# 7146 } \frac{23.1}{241.4} \times 100 = 9.5\%$$

$$(5) \text{ Jar \# 7234 } \frac{30.6}{241.4} \times 100 = 12.6\%$$

$$(6) \text{ Jar \# 7148 } \frac{23.0}{241.4} \times 100 = 9.5\%$$

$$(7) \text{ Jar \# 7235 } \frac{16.9}{241.4} \times 100 = 7.0\%$$

$$(8) \text{ Jar \# 7236 } \frac{20.1}{241.4} \times 100 = 8.3\%$$

$$(9) \text{ Jar \# 7238 } \frac{\cancel{30.0}^{21.0}}{241.4} \times 100 = 8.6\%$$

$$(10) \text{ Jar \# 7239 } \frac{17.9}{241.4} \times 100 = 7.4\%$$

$$(11) \text{ Jar \# 7240 } \frac{21.3}{241.4} \times 100 = 8.8\%$$

$$(12) \text{ Jar \# 7242 } \frac{15.6}{241.4} \times 100 = 6.4\%$$

Technician: R. Hunter

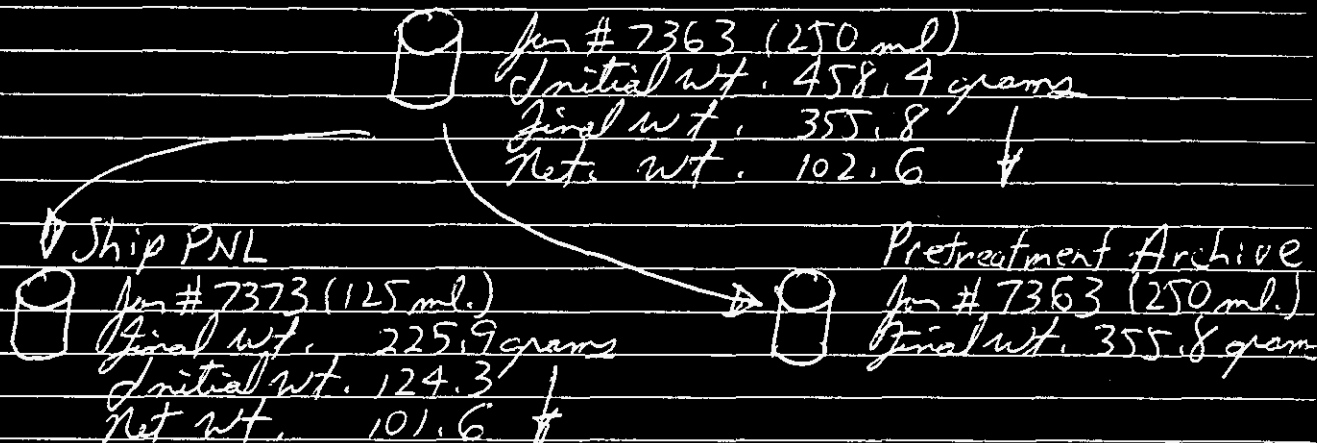
Requestor = J. Jo

Chemist = K. Fuller

7/21/95

July 26, 1995

B-104 Core 88 Segments 1-7
Pretreatment Archive & PNL Shipment



* Note: Homogenized sample in jar #7363 for 10 minutes and transferred 101.6 grams into jar #7373 for shipment to PNL. Jar #7363 is now the Pretreatment Archive sample.

A. J. A.
7-26-95

90

11003-0000-137, REV. 1

Subsample Worksheet Seg 1-7 Composite 7/27/95

Tank B104 Core 89 Seg 1-7 Composite

Composite Parent Jar

Jar # 7350 250ml

Testa Ship P11



Jar # 7598
 Jar Size 125ml
 Final WT 280.1g
 Initial WT 188.8g
 Net WT 91.3g

Tests Pretreatment

Leave this sample in hot air for pretreatment jar size 125ml

per R.K. Fuller inst.

no pretreatment vial made
 WP. ABC 7/31/95

Alan Campbell 7/31/95

WHC-SD-WM-DP-137, REV. 1

ALL INFORMATION CONTAINED
HEREIN IS UNCLASSIFIED

PHOTOGRAPHS

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B-104 Core 88 Segment #1

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6-9-95
AK7
3/6/1975

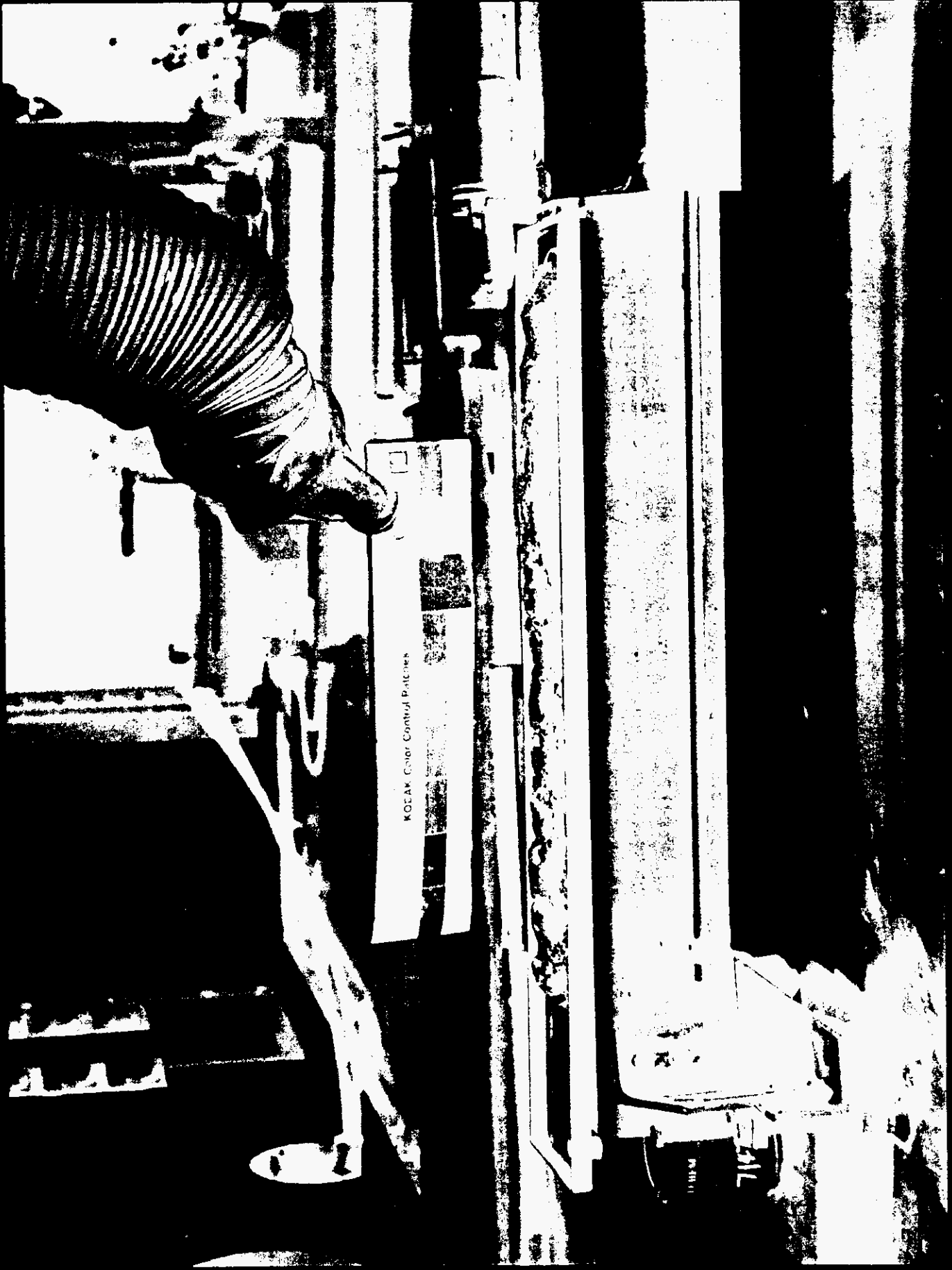
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B-104 Core 88 Segment #3



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B-104 Core 88 Segment #4

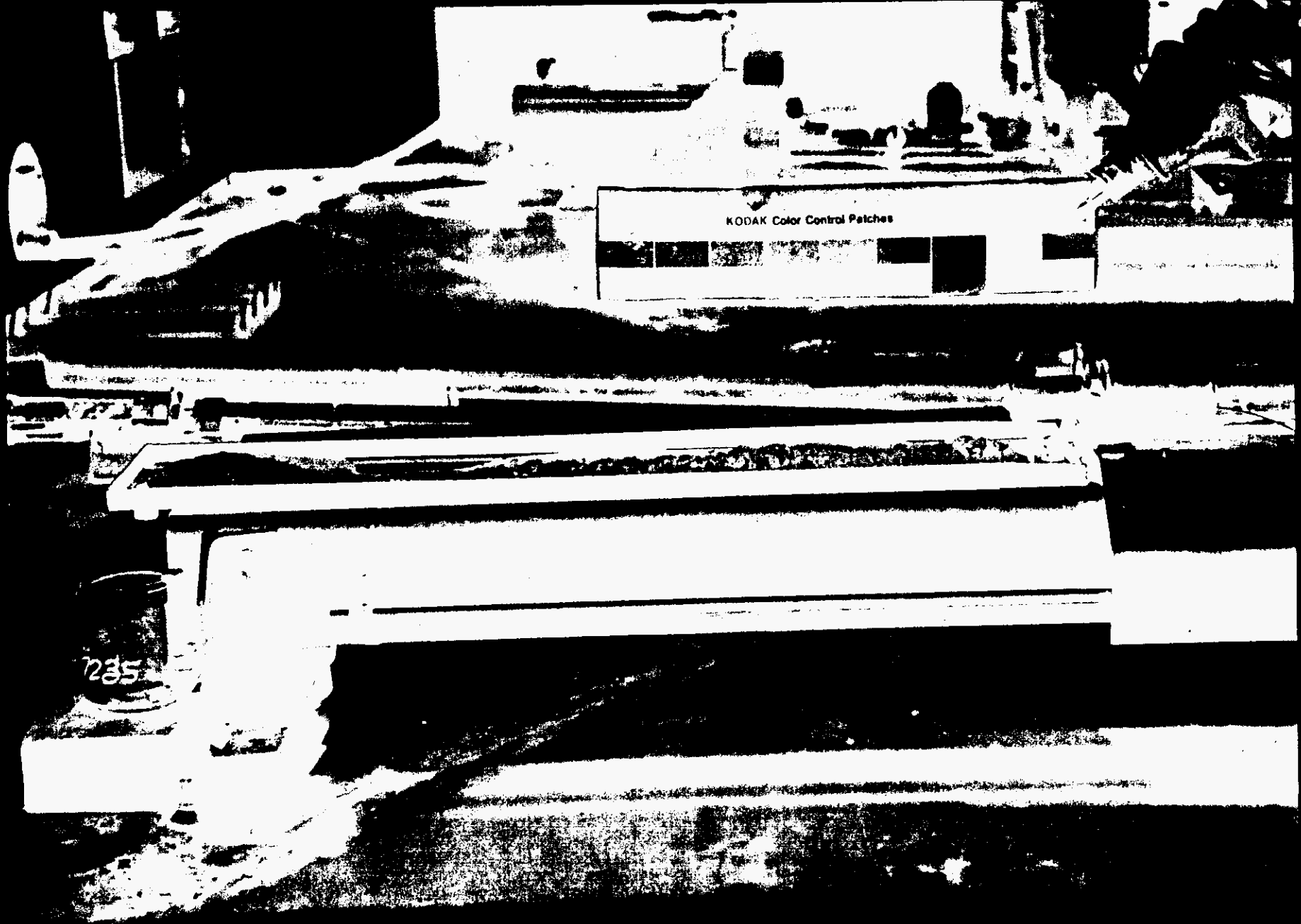
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B-104 Core 88 Segment #5

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6/19/95



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B-104 Core 88 segment #6

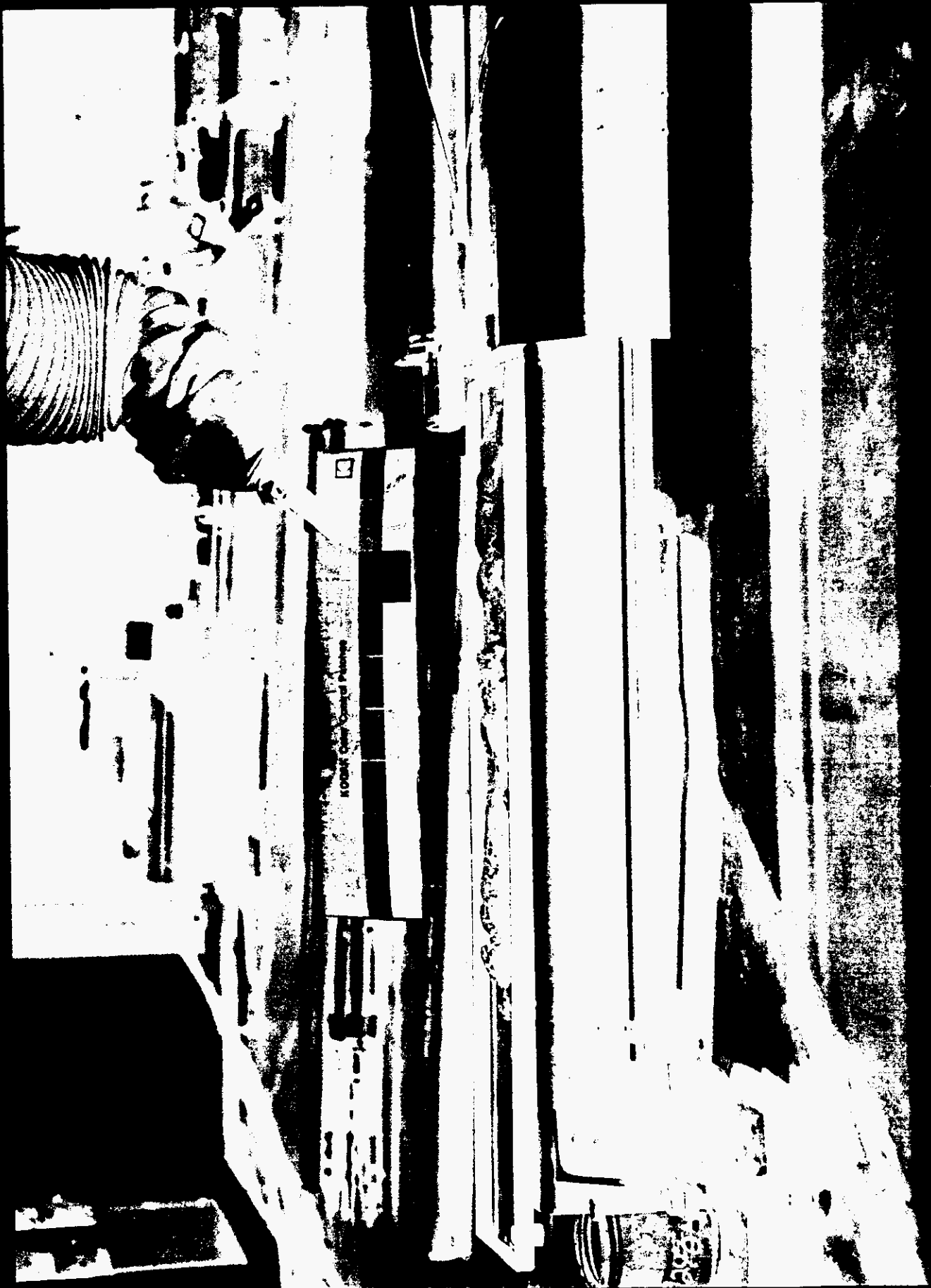
6-13-95



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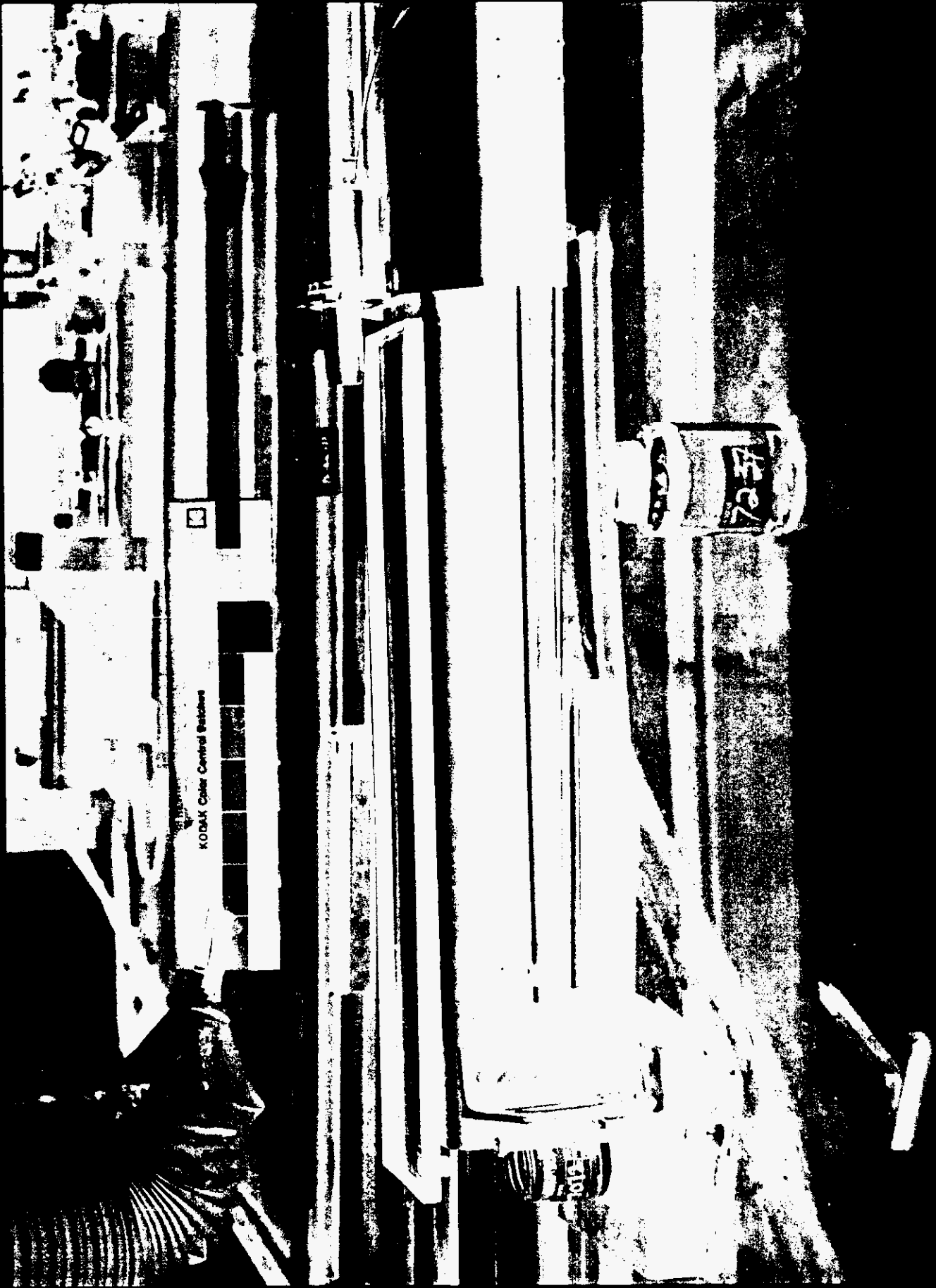
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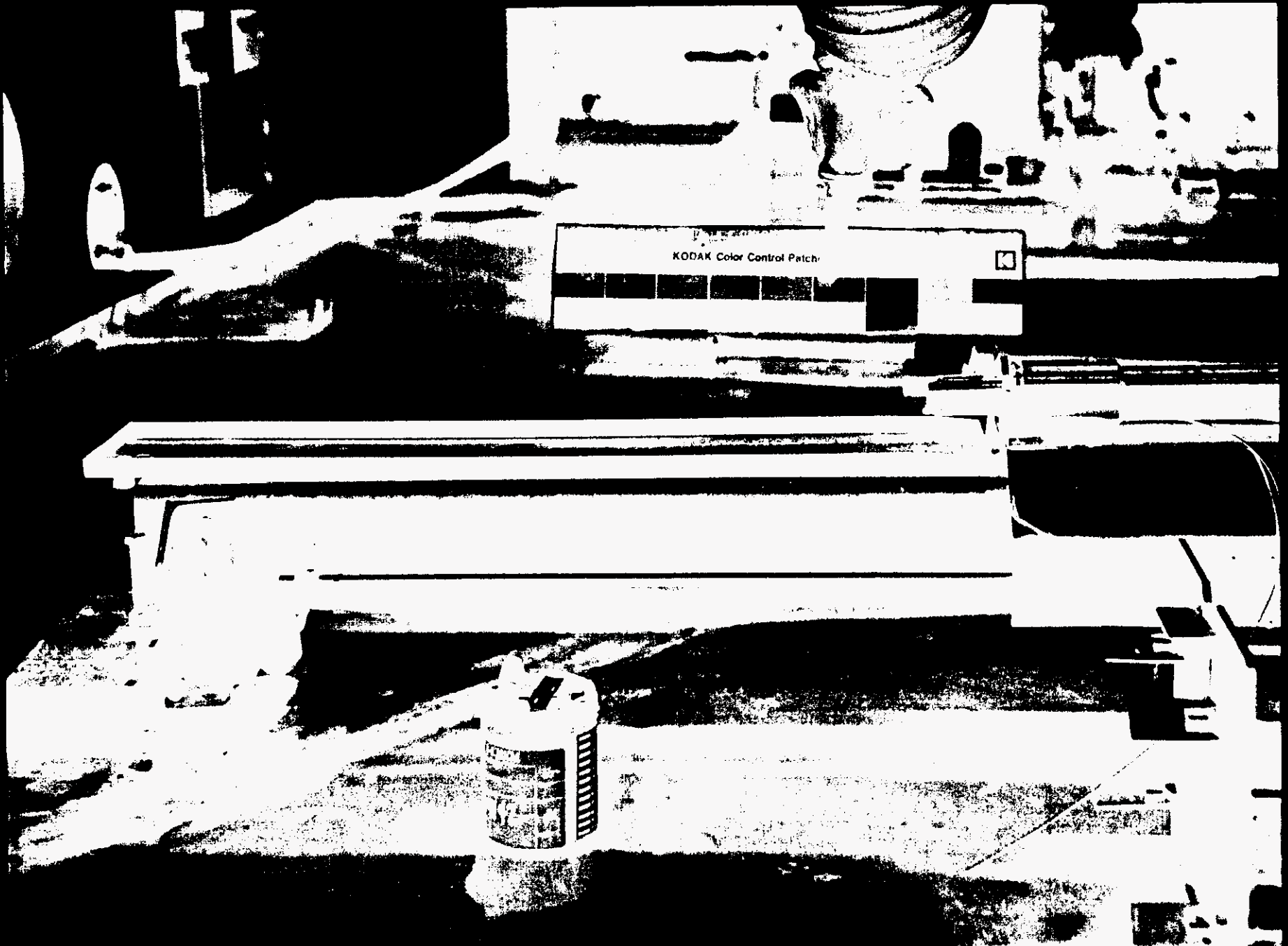
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6-5-95



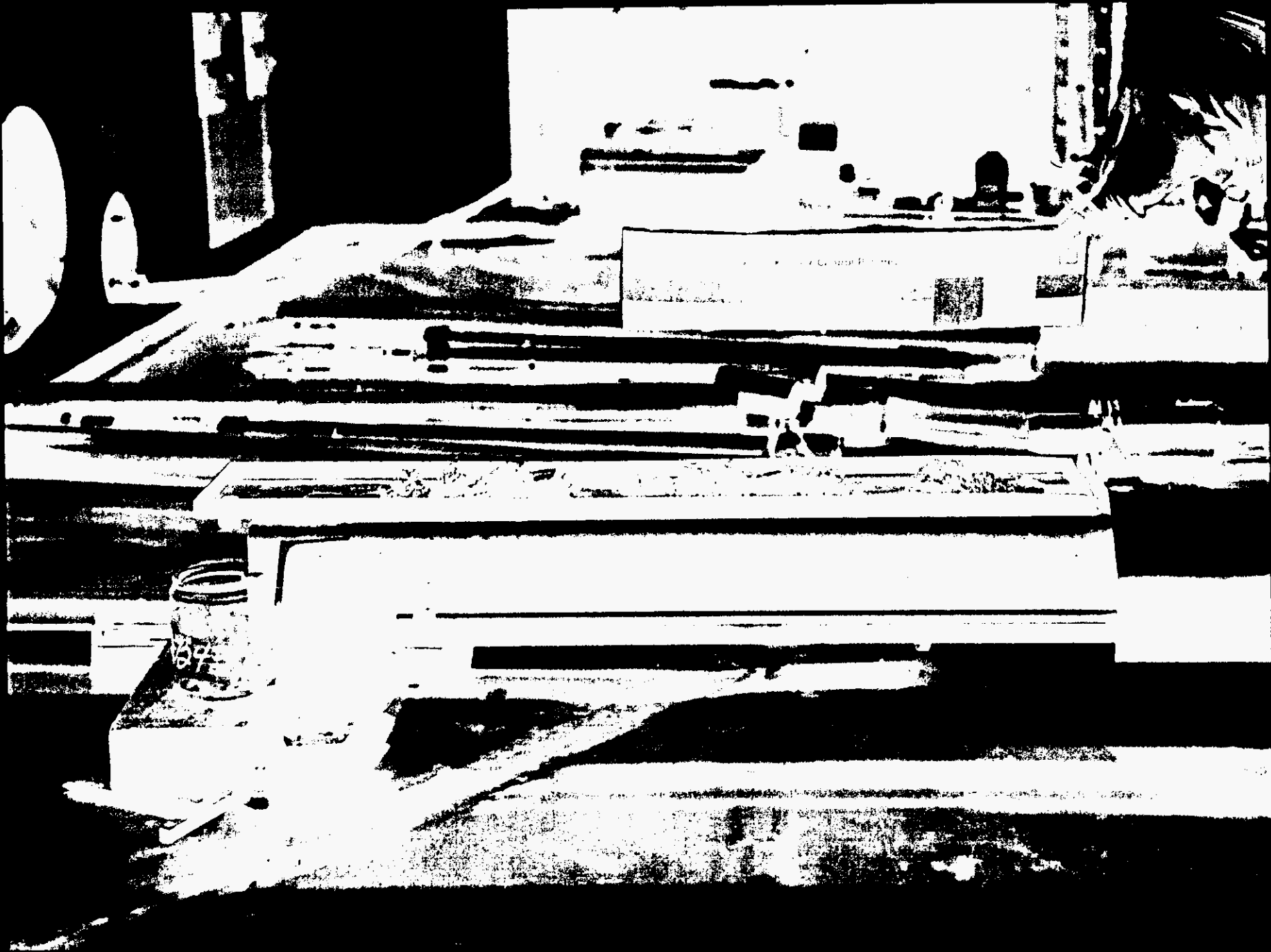
WHC-SD-WM-DP-137, REV. 1

133

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B-104 Core 89 Segment #1



130

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6-15-95

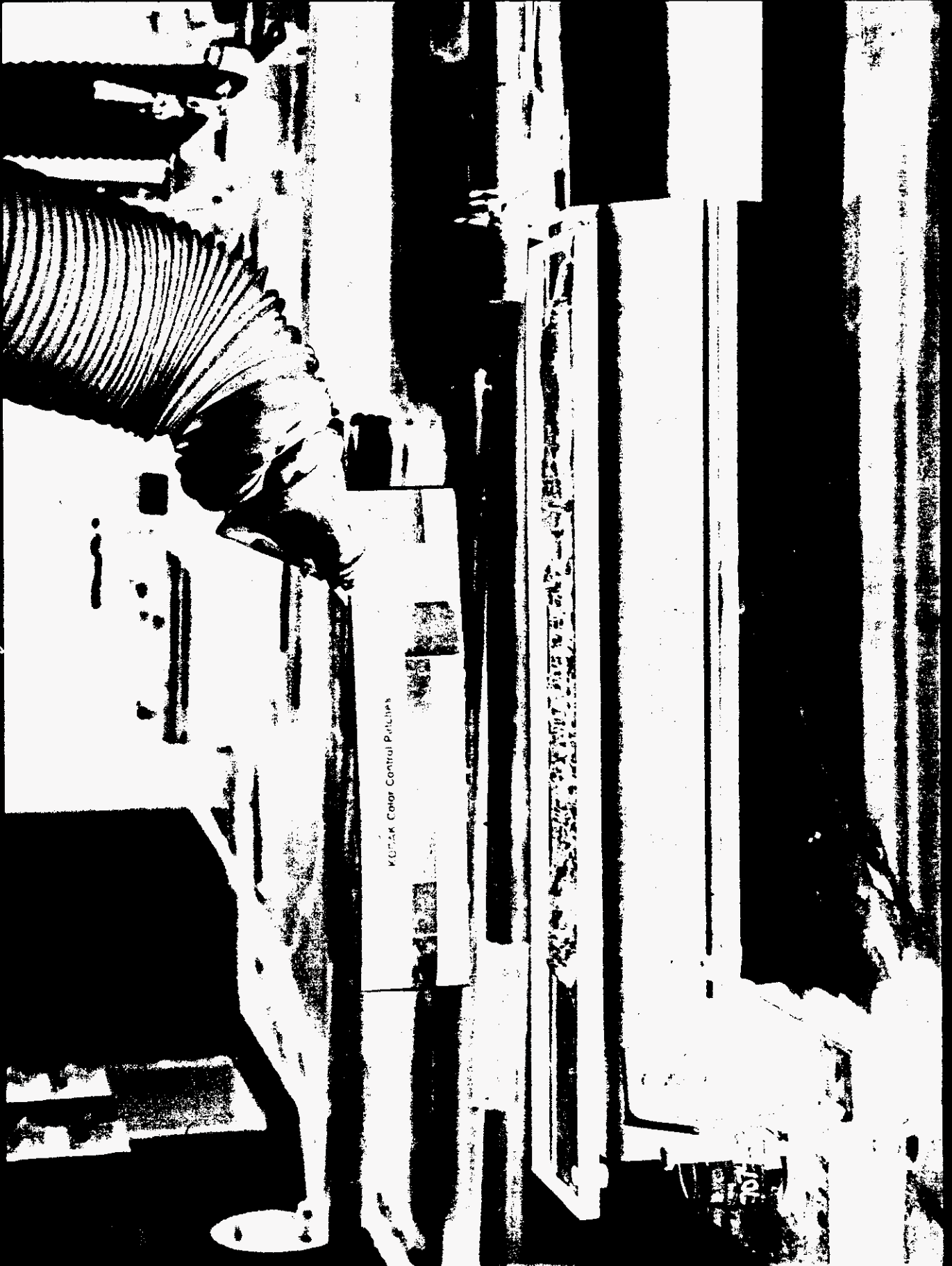
B-104 Core 89 Segment #2



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B-104 Core 89 Segment #2 (after evacuation - 2 hours later)

6-15-95



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06-19-95

B-104 Cure 89 Segment 3



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