

**Long Term Monitoring of the Coral Reef Organisms of Biscayne National Park,
Phases 2 and 3**

**Final Report: 1993-1994 Field Seasons
Including Tropical Storm Gordon Resurvey**

Final Report and Summary for:
Cooperative Agreement No. CA-5000-9-8020
Including: Subagreement 2;
and Subagreement 2, Amendment 1

&

**An Analysis of Pre- and Post-Hurricane Coral Reef Community Dynamics:
Continuation of Coral Reef Monitoring in the Biscayne National Park**

Final Report and Summary for:
Master CA-5280-4-9003, CA 5280-4-9028

Between USDI, NPS, & the UGA Research Foundation Inc.

Volume 4 (of 7)

Deliverable: Sixth Year Digitized Maps from the Quadrat Photographs

08/25/95

**Dr. James W. Porter
Ouida W. Meier
Ecology, Biosciences Office
711 Biosciences Bldg.
University of Georgia
Athens, Georgia 30602-2602
(404) 542-3410 (office)
(404) 542-4060 (fax)**

Long Term Monitoring of the Coral Reef Organisms of Biscayne National Park,
Phases 2 and 3

Final Report: 1993-1994 Field Seasons
Including Tropical Storm Gordon Resurvey

Final Report and Summary for:
Cooperative Agreement No. CA-5000-9-8020
Including: Subagreement 2;
and Subagreement 2, Amendment 1

&

An Analysis of Pre- and Post-Hurricane Coral Reef Community Dynamics:
Continuation of Coral Reef Monitoring in the Biscayne National Park

Final Report and Summary for:
Master CA-5280-4-9003, CA 5280-4-9028

Between USDI, NPS, & the UGA Research Foundation Inc.

Volume 4 (of 7)

Deliverable: Sixth Year Digitized Maps from the Quadrat Photographs

08/25/95

Dr. James W. Porter
Ouida W. Meier
Ecology, Biosciences Office
711 Biosciences Bldg.
University of Georgia
Athens, Georgia 30602-2602
(404) 542-3410 (office)
(404) 542-4060 (fax)

Long Term Monitoring of the Coral Reef Organisms of Biscayne National Park,
Phases 2 and 3

Final Report: 1993-1994 Field Seasons
Including Tropical Storm Gordon Resurvey

An Analysis of Pre- and Post-Hurricane Coral Reef Community Dynamics:
Continuation of Coral Reef Monitoring in the Biscayne National Park

Volume 4 (of 7)

Deliverable: Sixth Year Digitized Maps from the Quadrat Photographs

In 1989 a coral reef monitoring project was established in Biscayne National Park in order to measure changes in coral reef community structure over time and to provide information about the natural resource to park management. Two reef sites in Biscayne National Park were chosen for intensive, ongoing study: Ball Buoy Reef, at the southern end of the Park, and Triumph Reef, towards the northern end. Methods employed at each site were: (1) a 1000 m² visual swim survey to assess species richness and the species present in the area; (2) three permanent line transects, 25 m long each, (3) a permanent 13.5 m² photostation, and (4) a 100 m² haphazard photographic survey to test the representativeness of the 13.5 m² photostation. In 1990, we added to each station: (1) two additional permanent 25 m long line transects; and (2) three permanent video transects, utilizing three of the five existing line transects.

This volume of information contains reproductions of the mylar tracings resulting from each photostation during the 1993 and 1994 field seasons. The photostations sampled by this method were permanently fixed by stainless steel stakes that were cemented into holes drilled into solid dead substrate at the perimeter of each photostation. We expect that the sites can be reliably relocated for some years into the future.

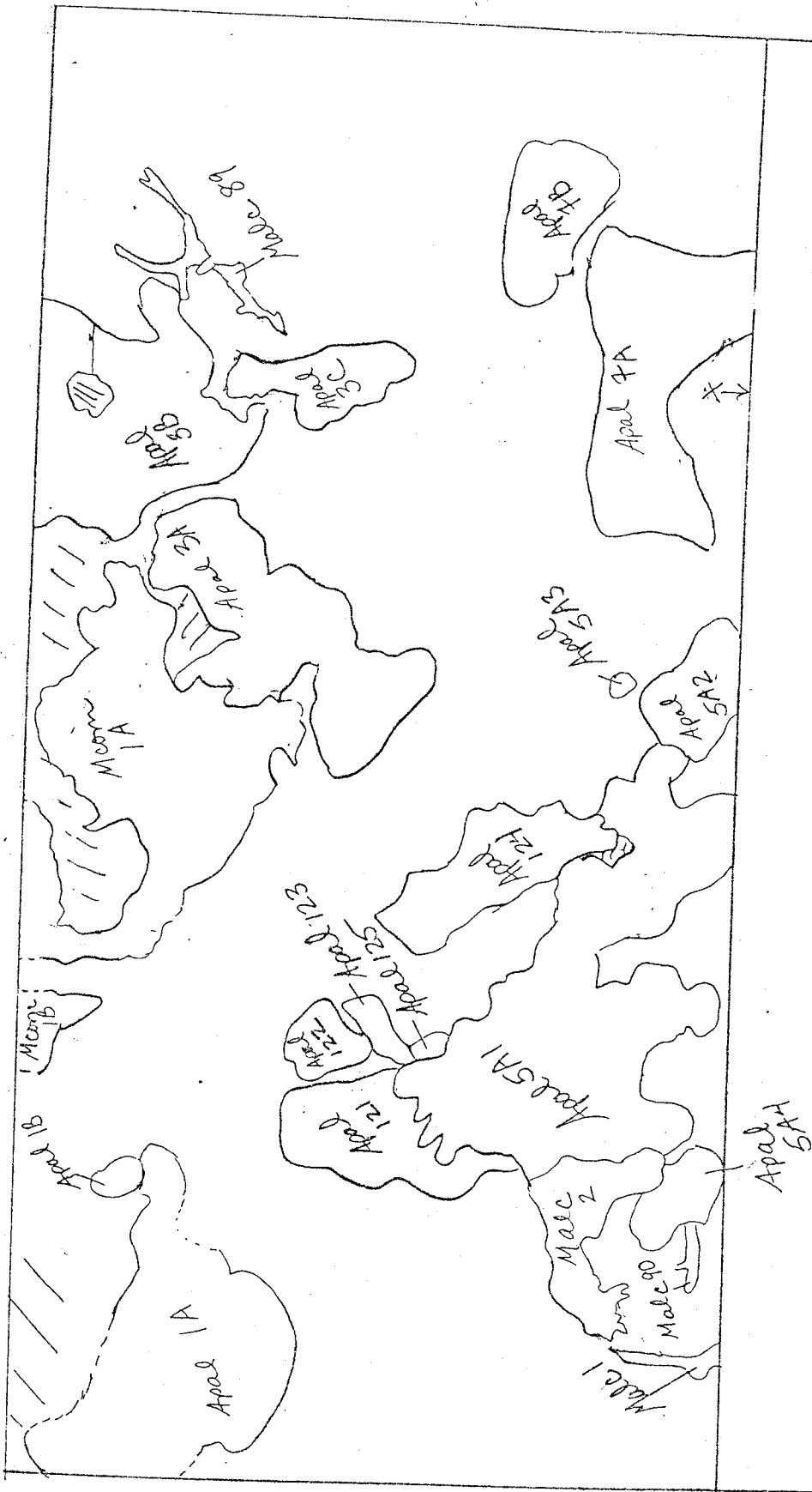
At each site a 2.00 m x 2.25 m PVC grid (area 4.5 m²) was fixed at marks filed into the steel stakes. Over this grid a small camera framer, measuring 50 cm x 75 cm (area 0.375 m²), was placed in order to photograph each area of the photostation at fairly close range. A Nikonos V camera loaded with Kodak Tri-X Pan film, ASA 400, was mounted on the small camera framer at a distance of 1.0 m away from the plane of the small framer to photograph each area. Each time the grid was laid down, 12 photographs were required to cover the 4.5 m² area of the grid. At each of these photostations, the grid was laid down and fixed in place three times for a total area of 13.5 m², requiring 36 photographs for total coverage.

The black and white photos were printed on polycontrast paper at a size of 8" x 10", and outlines of each coral colony in each photograph were traced onto mylar sheets with the help of a light table. Each scleractinian and hydrozoan coral colony was identified to species, assigned a unique colony number, and followed through time. The tracings were digitized to obtain projected surface areas of each coral colony. The data resulting from this effort were analyzed for percent cover of living coral, relative abundance of coral species, species richness, and species diversity using a software program developed in our lab for this purpose. A presentation of results and summary statistics is available in Volume 1 of this Report. A detailed description of the method and its analysis is presented in Volume 8 of the first Report.

This volume of information contains reproductions of .tif graphic files resulting from digitizing each frame within the photostations during the 1993 and 1994 field seasons. Each .tif graphic file includes the outline of the camera frame, identifying information on the specific reef site (BP01, Ball Buoy Reef; and BP02, Triumph Reef), frame number (1-36), and year. The outlines of each individual colony, its species abbreviation (first letter of the genus name followed by the first three letters of the species name), and its unique colony number are indicated in the .tif graphic files. Cut lines, used to eliminate parallax and colony duplication, are also evident in the graphic files; for more information about this procedure please refer to the software manual in Volume 8 of the first Report.

The .tif graphic files presented in this volume follow the order:

1. BP01, or BNP I, Ball Buoy Reef, July 1994, frames 1-36
2. BP01, or BNP I, Ball Buoy Reef, December 1994, frames 1-36
3. BP02, or BNP II, Triumph Reef, November 1994, frames 1-36



Apal 1A

Five Chade
FUD, OM 545

BP01 - 01-1994 (29.64)

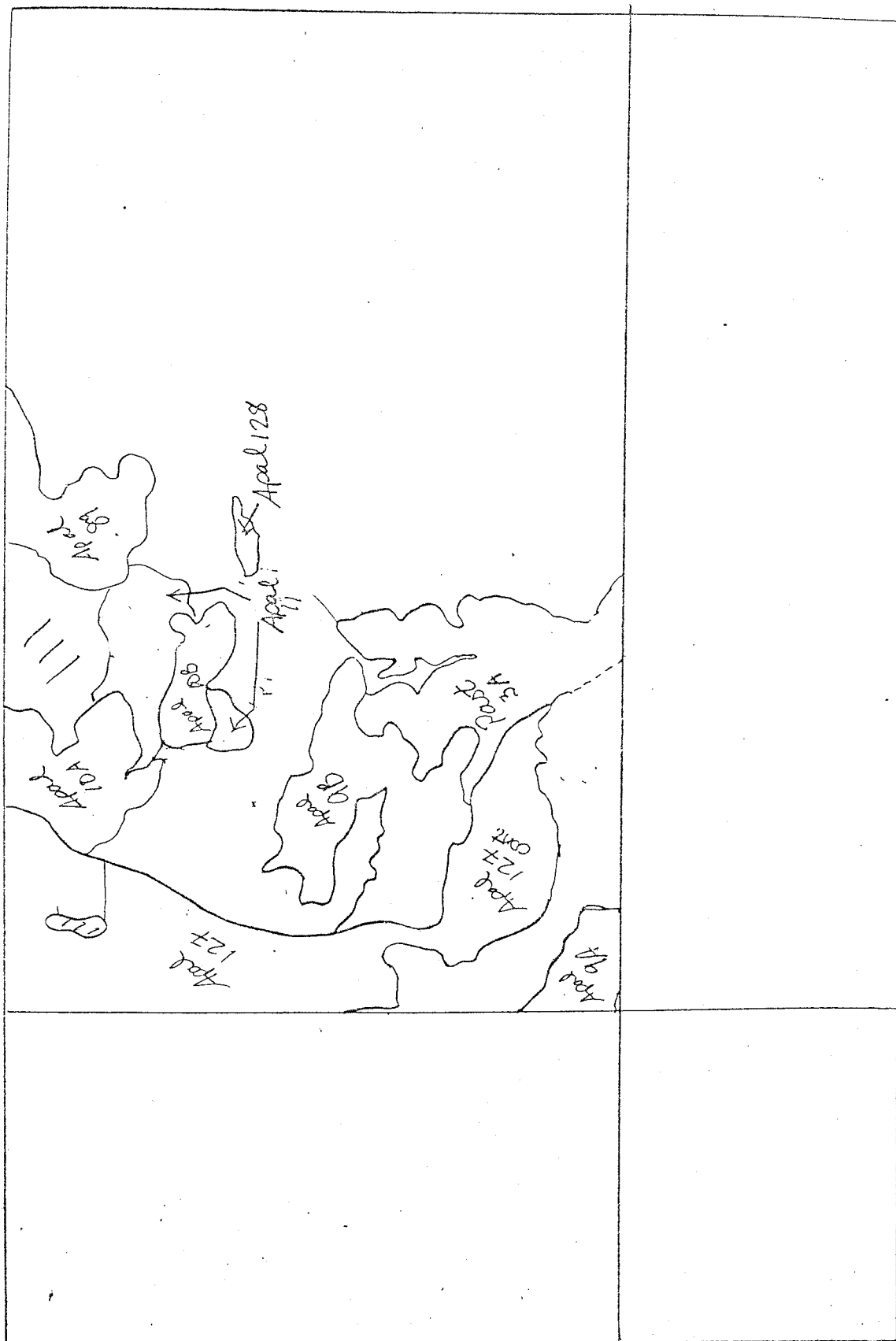
Male 84UA
Male 90 SR
Apal 121, 122, all TR
Apal 123, 124
Apal 125 TR
Apal 1 FI
Apal 1 FI
Apal 1 FI

Pat 42, 43 Dead.

Final check
JWP, OM 5/95

BPOL-02-1941. (29 July)

April 126 TR (number shift into hand)
 April 7 FI
 Morn 3A FI
 April 127 TR
 April 7 FI
 April 9 FI
 Past 44 MIA
 Morn 3B MIA
 Past 2 MIA
 Past 36 Decal

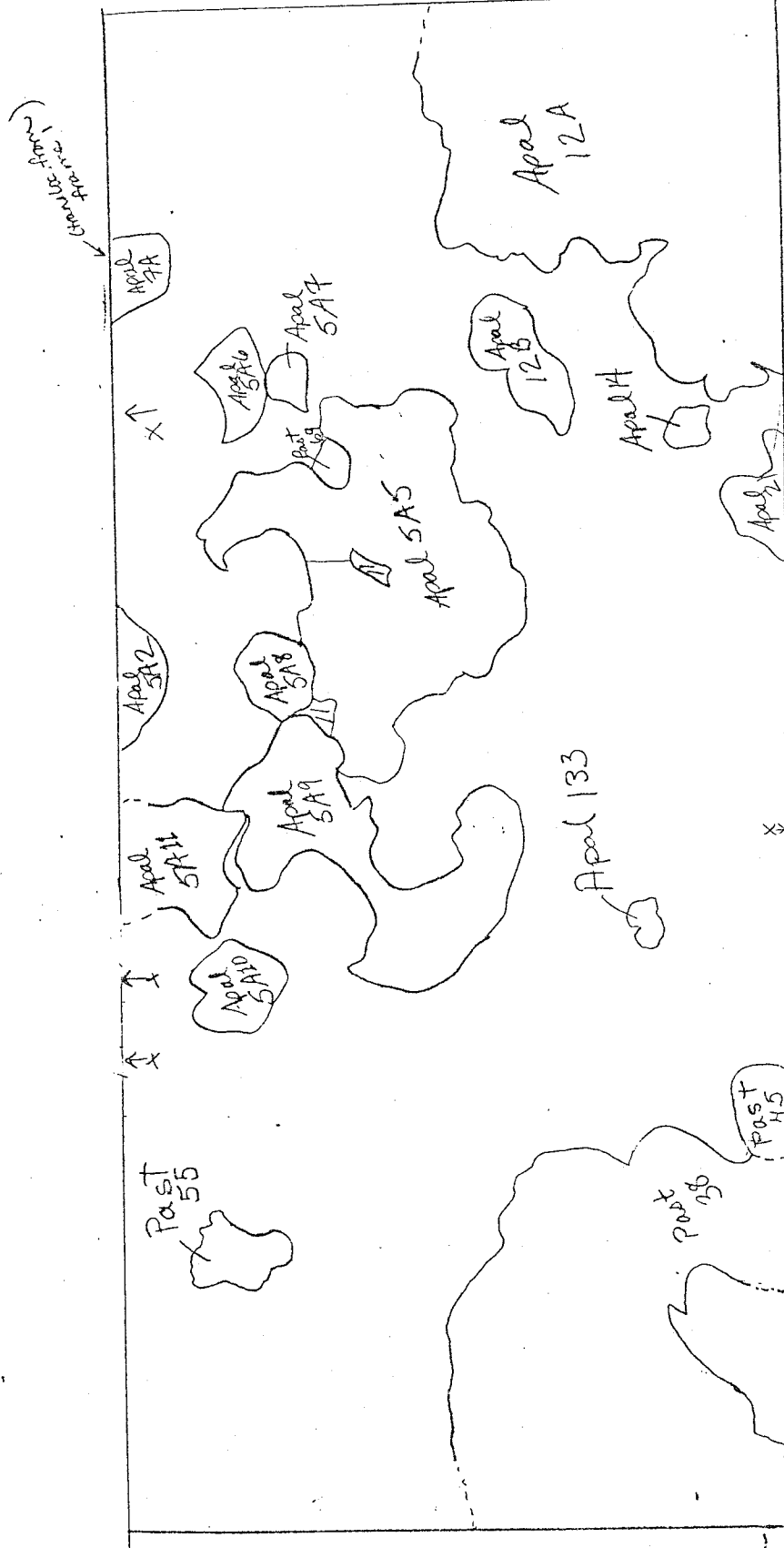


April 127 TR
April 128 PE
April 9 FI

(29 July)

BP01-03-1994

Final Check
SWP, OM 5195



Post 69 RE
+ Apal 133 S Recruit!

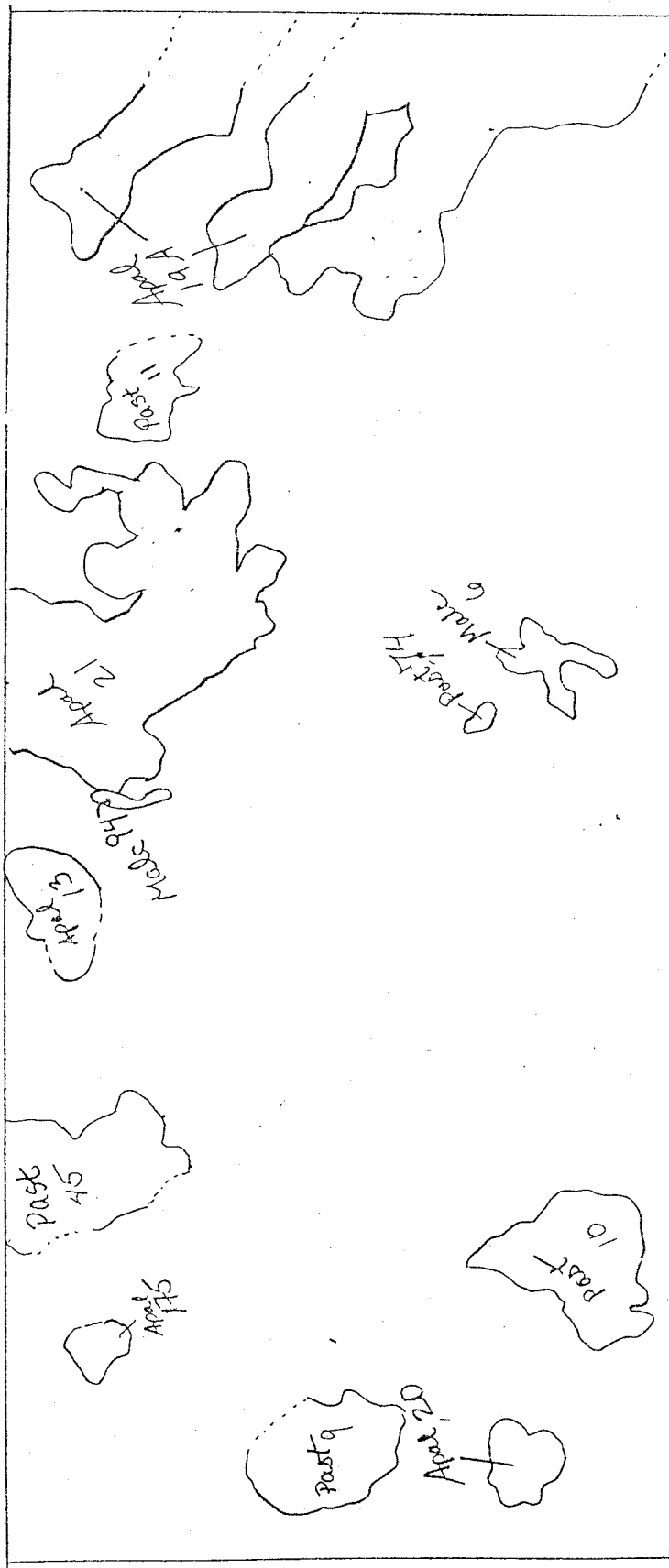
29 July

BP01-04-1994

Apal 13 (not in this frame)

Black Jack P.O.M. 5795

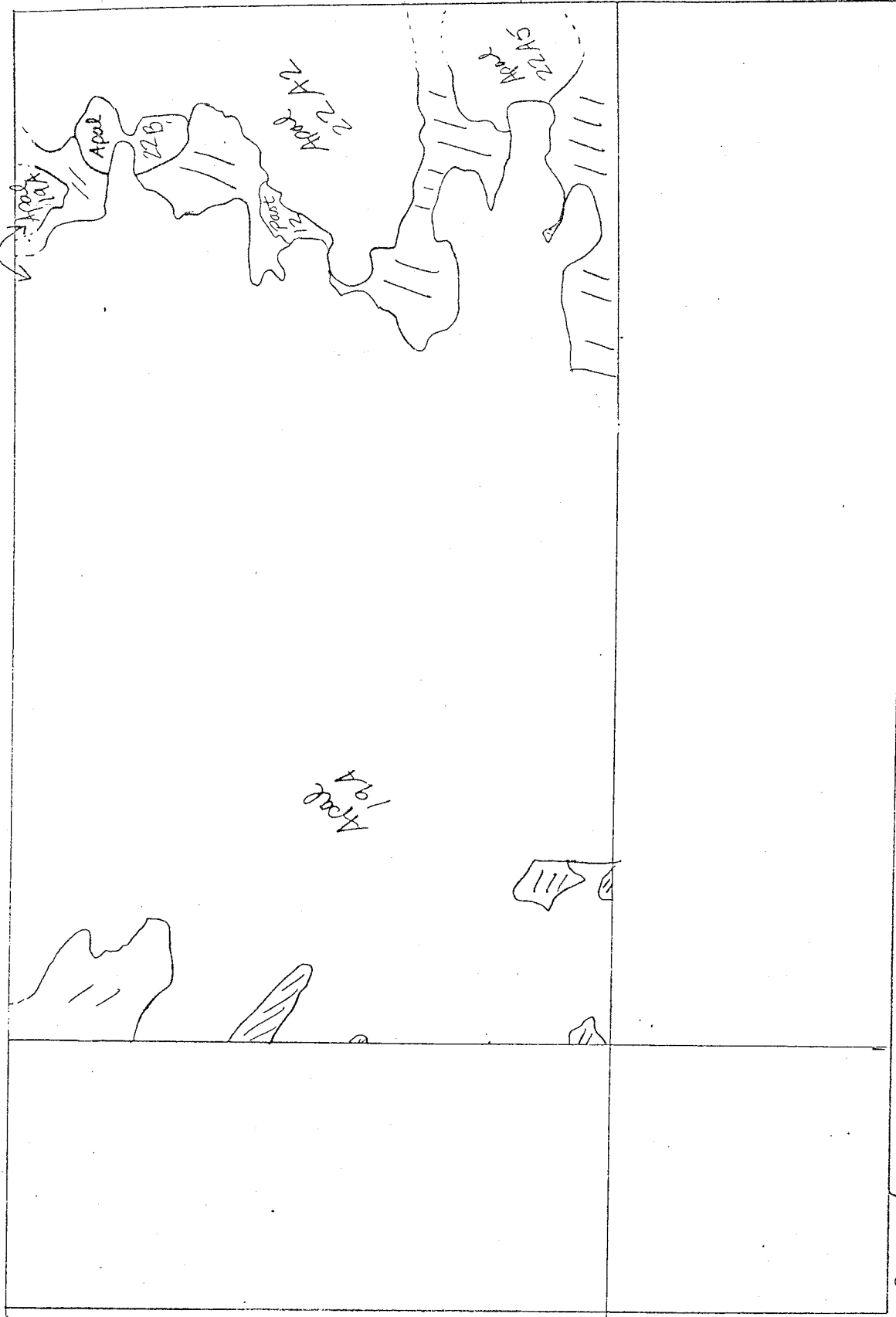
Apal 5B Anvol
Apal 6A Anvol Male 4 dead
Apal 15 dead



Male 72 AWOL Male 73 Dead
 April 90 DEAD Aaga 11 Dead
 April 175 REappear Male 94 WA
 Part 74 SR Male 71 AW

BP01-07-1994 (2 July) Male 71 AWOL

Final check
 JWP, OM
 5/95 OM 6/95
 noddif OM 6/95

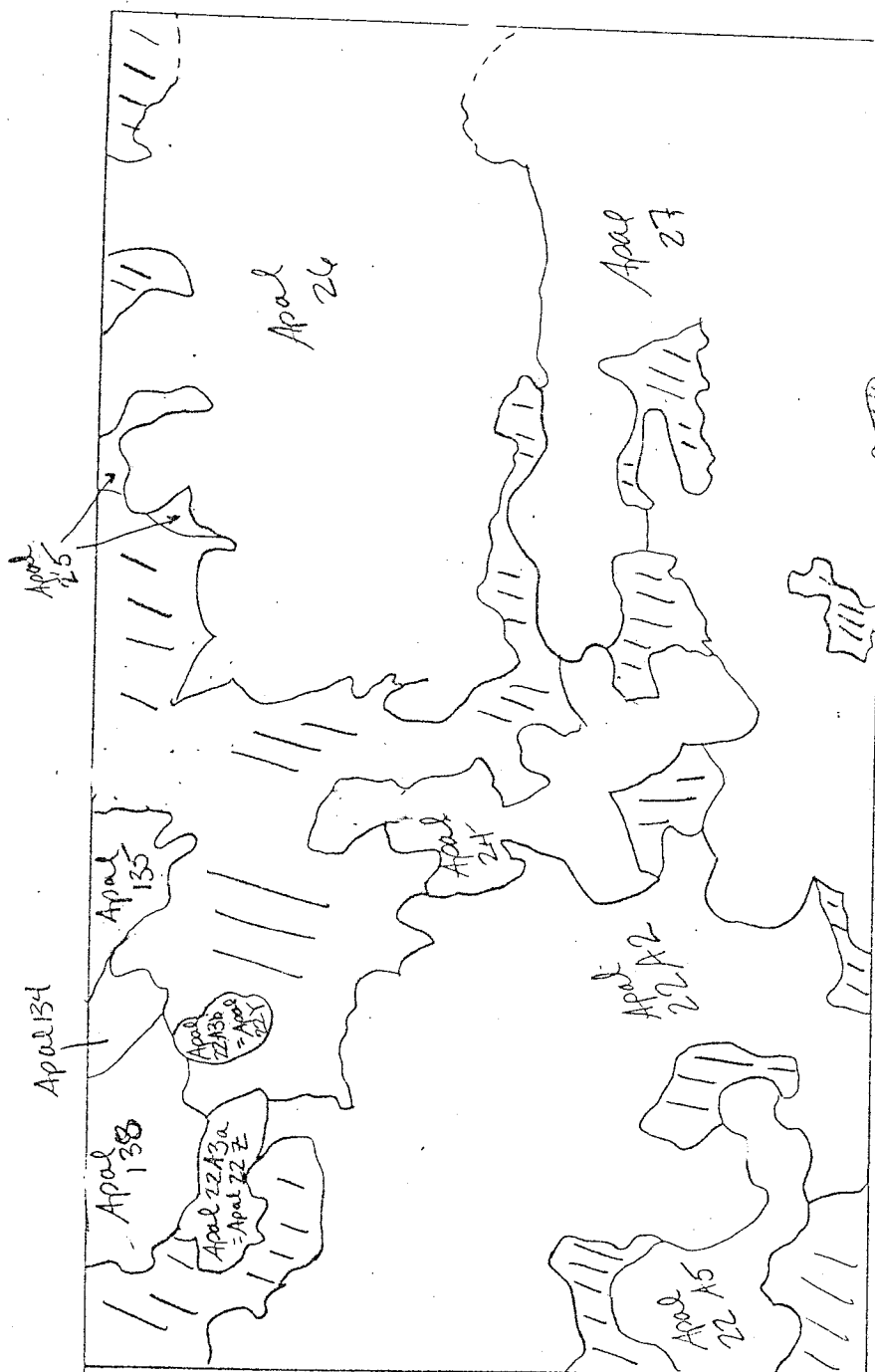


April 22A1 DEAD

(29 July)

BPOL-08-1994

Final Check
JWP, OM 5/95



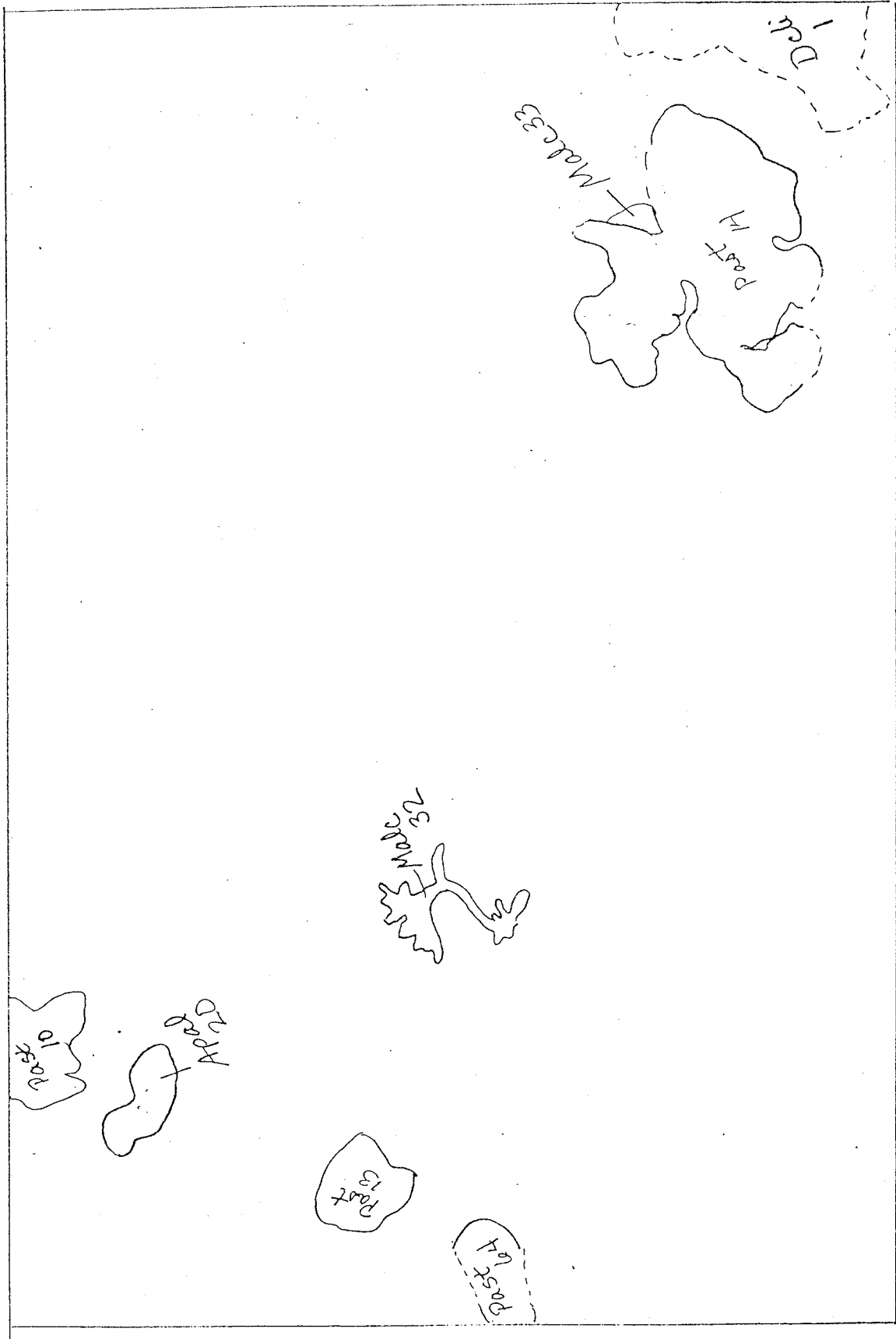
Apal 138UA
 Apal 134TR
 Apal 135TR

Apal 22A4 DEAD

Apal 22A3 FI (renamed Apal 22X, Z)

BP01-09-1994 (2 July)

Final Check
 JWP, DM 5/95



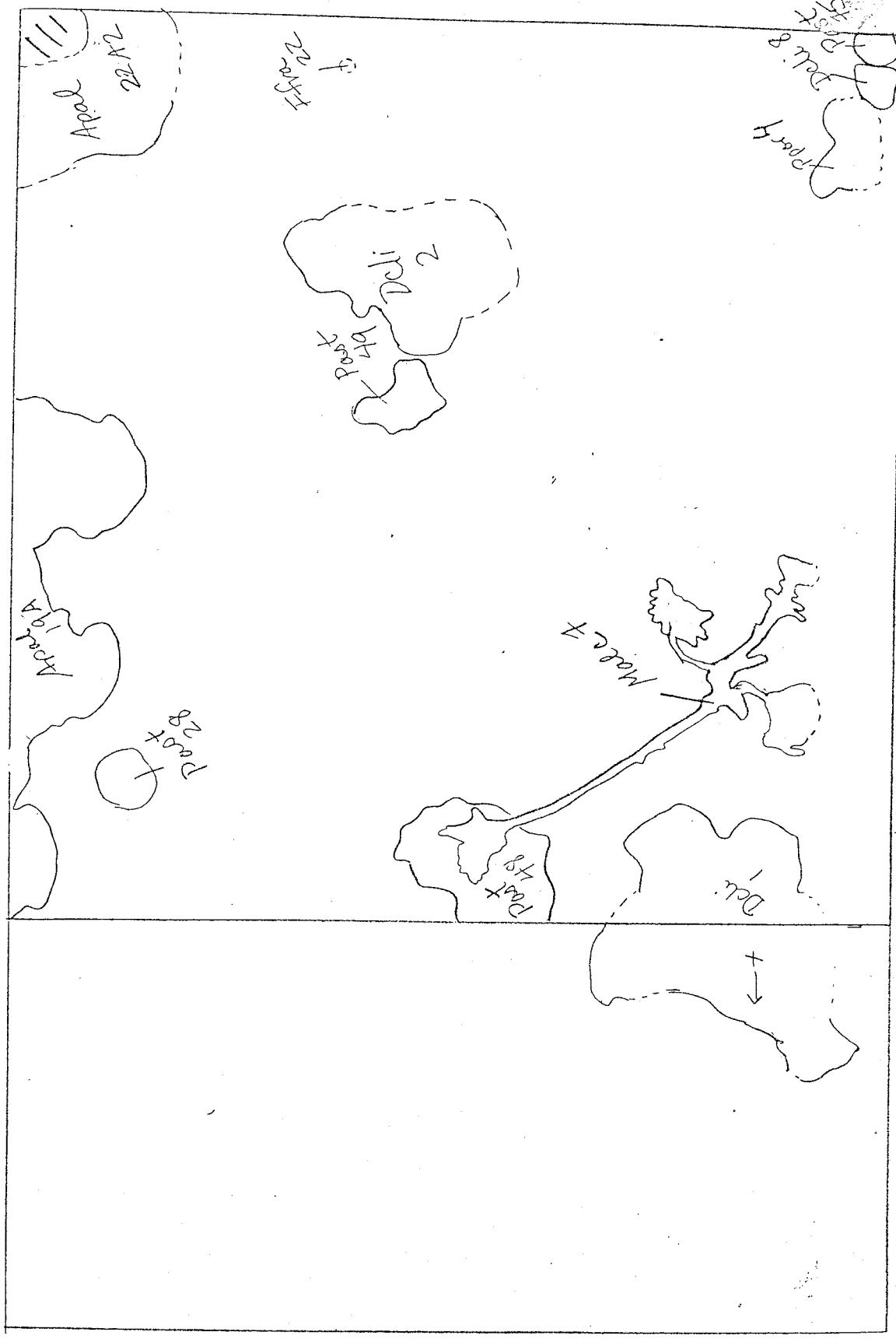
(Channel from frame 11)

Apal 88 ANOL

2 July

BPA-10-1994

Final Deck
JUL 8, 04
5195



Final Check
JWP, OM 5/95

BP01-11-1991

2 July

Apal 198 DEAD
Past 50 MIA
FFra 22 SR

Post 4 UA
Deli 8 UA
Post 5 UA

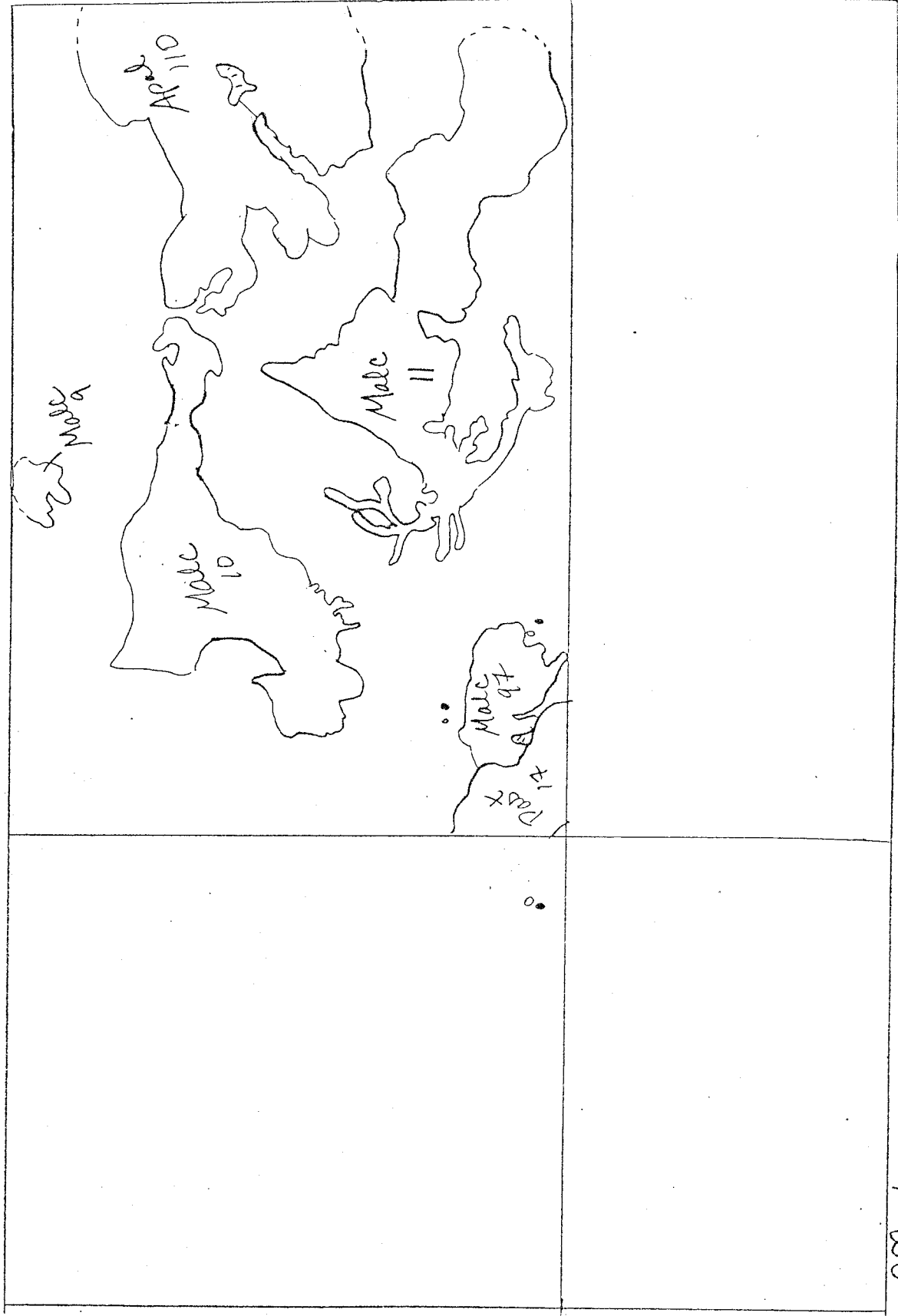
[illegible]

Final Check
New, DM 5195

BPOI-12-1994. 2 July

Malc 75 AN
Aaga 3 FI

Handwritten: You're Tired



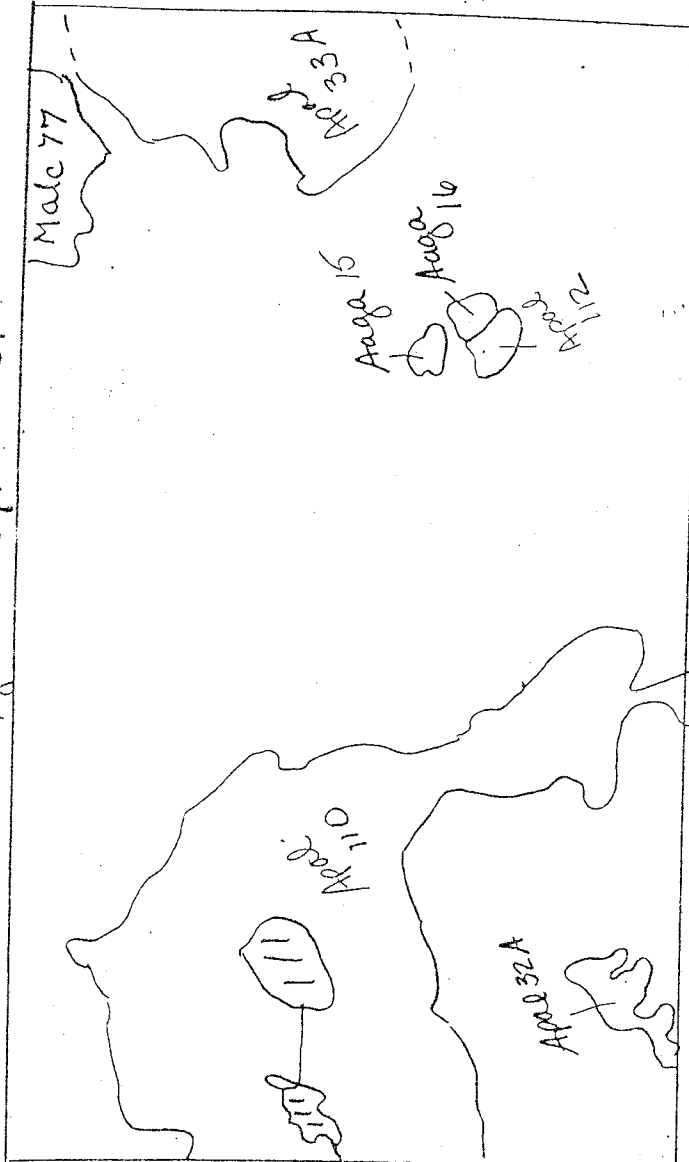
Final Check
JWP, OM 5/95

BP01-14-1994

2 July

Male pins
Male 97 SR

Note rapid growth/colonizing of substrate by fragment Apal 110, generated by ^{humans} Andrew.

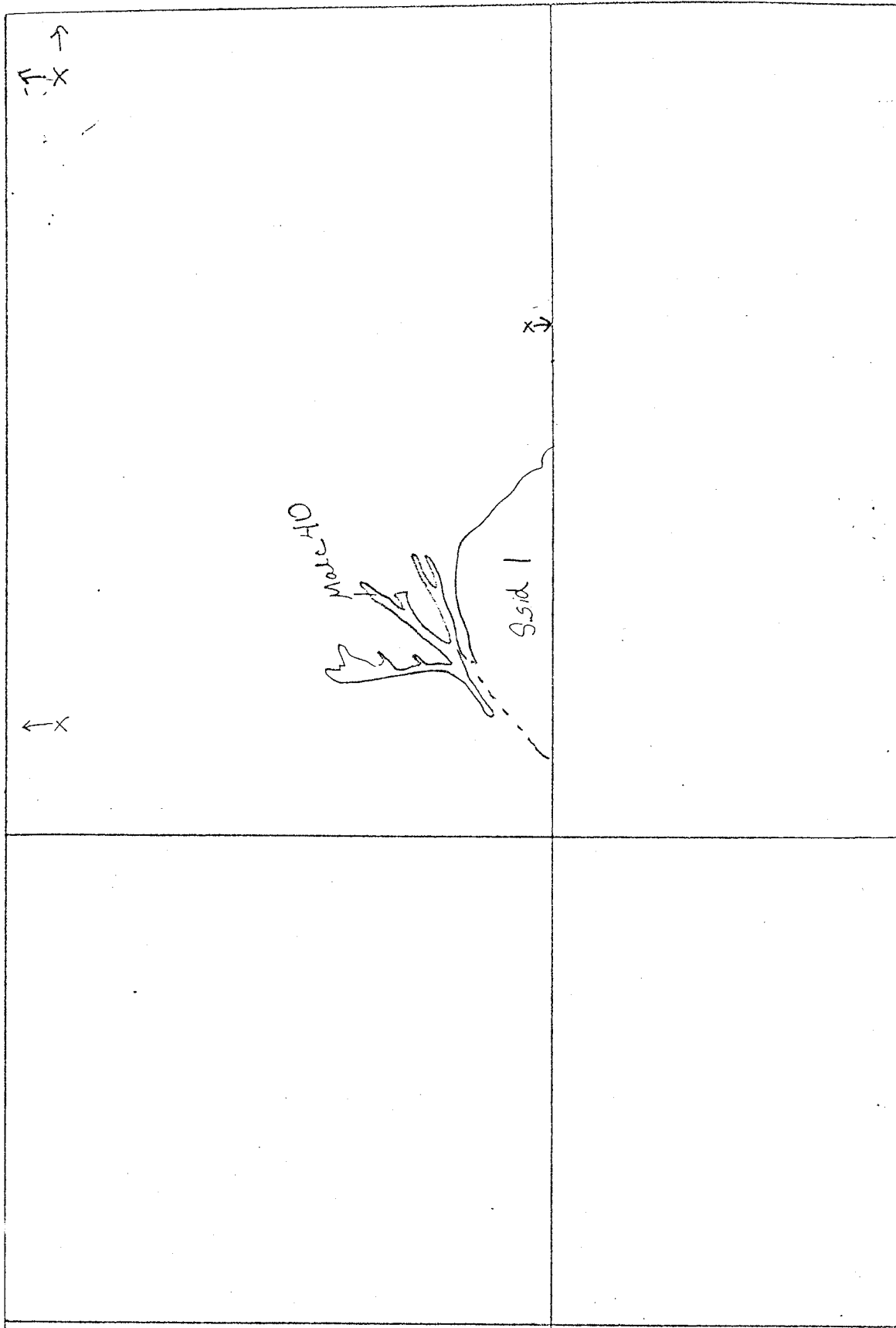


Final Check
JewP, OM 5/95

B01-15-1994

2 July

Apal 15 SR
Apal 16 SR
Male 78 dead
Apal 120 MIA
FFra 9 MIA
Apal 114 MIA
Apal 111 Dead



Final check
JWP
05/23/15

BP01-16-1994

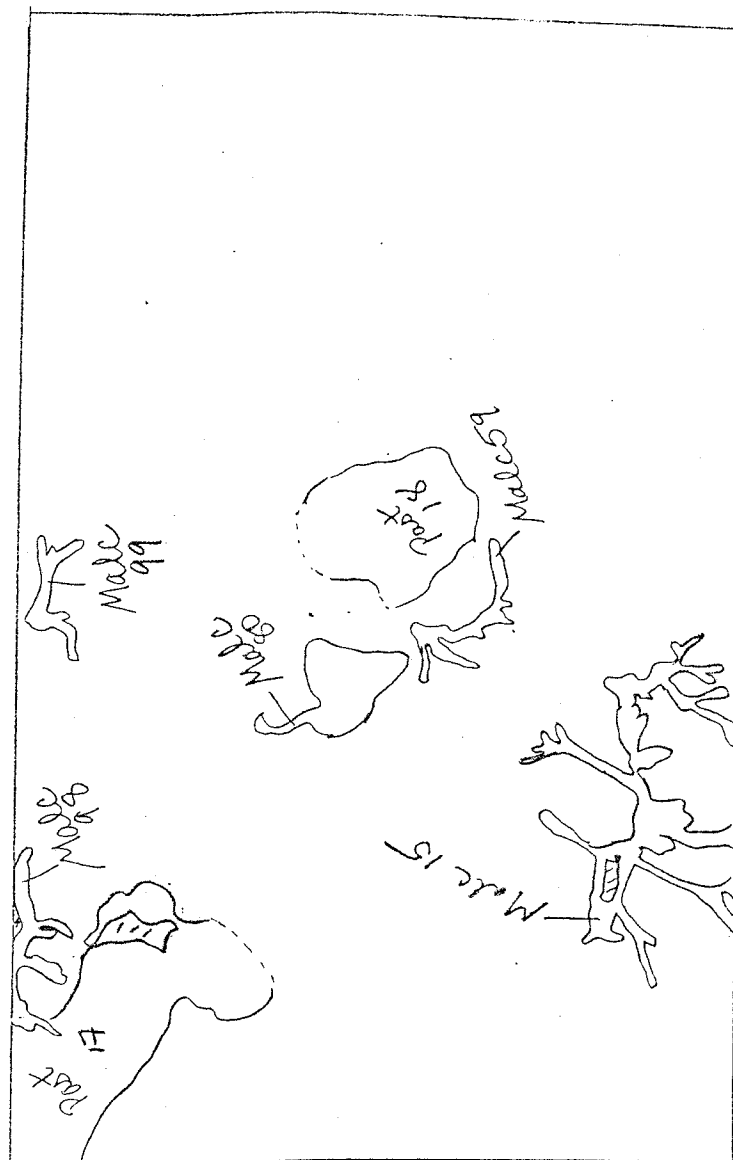
2 July

Fixed check
JWP 05/13/95
OM

BP01-17-1994

2 July

Malc 76 MIA
Malc 60 MIA
Malc 98 SR
Malc 99 SR



Final Check
JWP 05/23/95
nm

BP01-18-1994

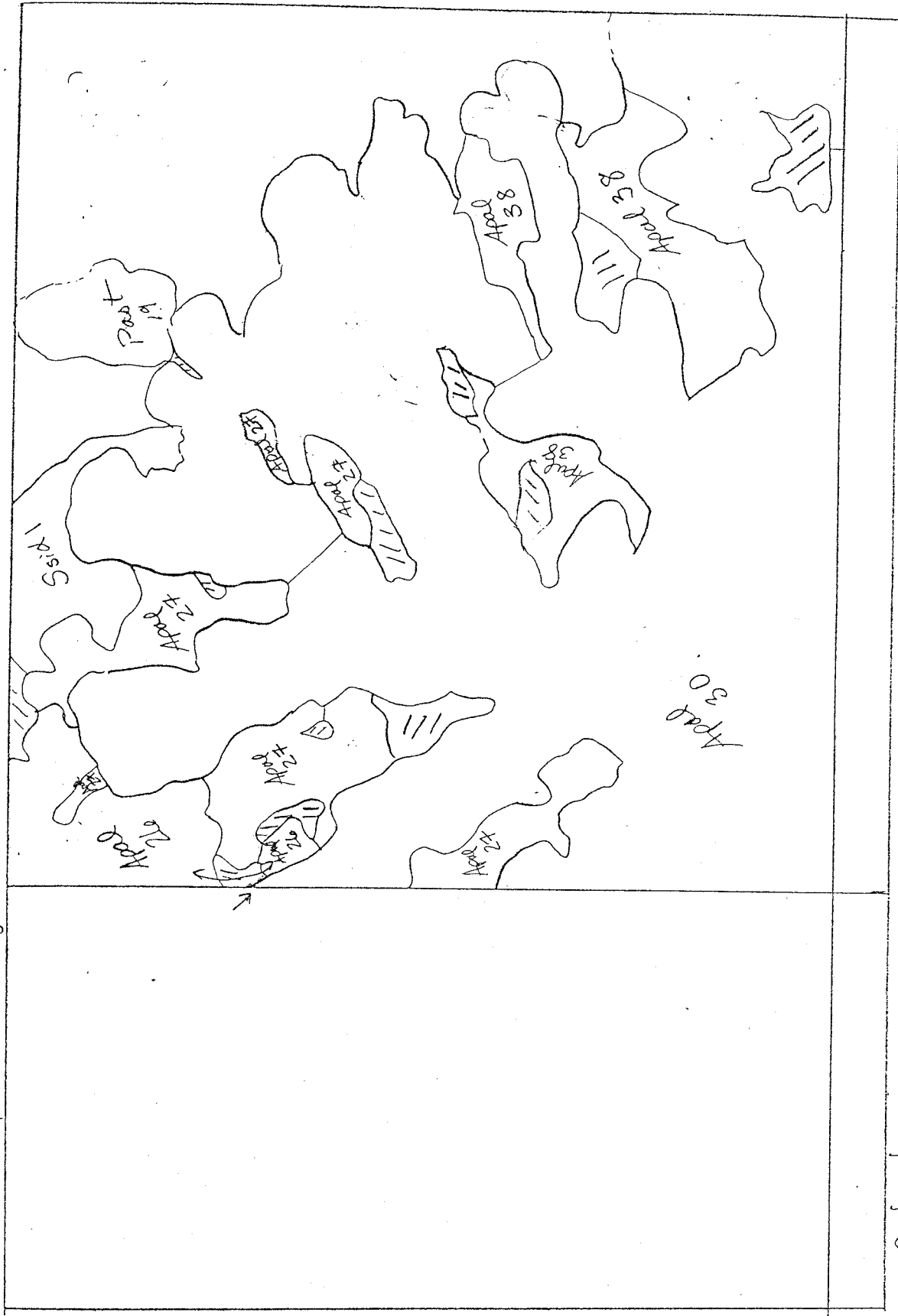
2 July

April 154 RE

Apal 32 A

April 15th

Dig. Note: Apal 27 has 6 segments
 Apal 26 has 2 segments
 Apal 38 has 3 segments



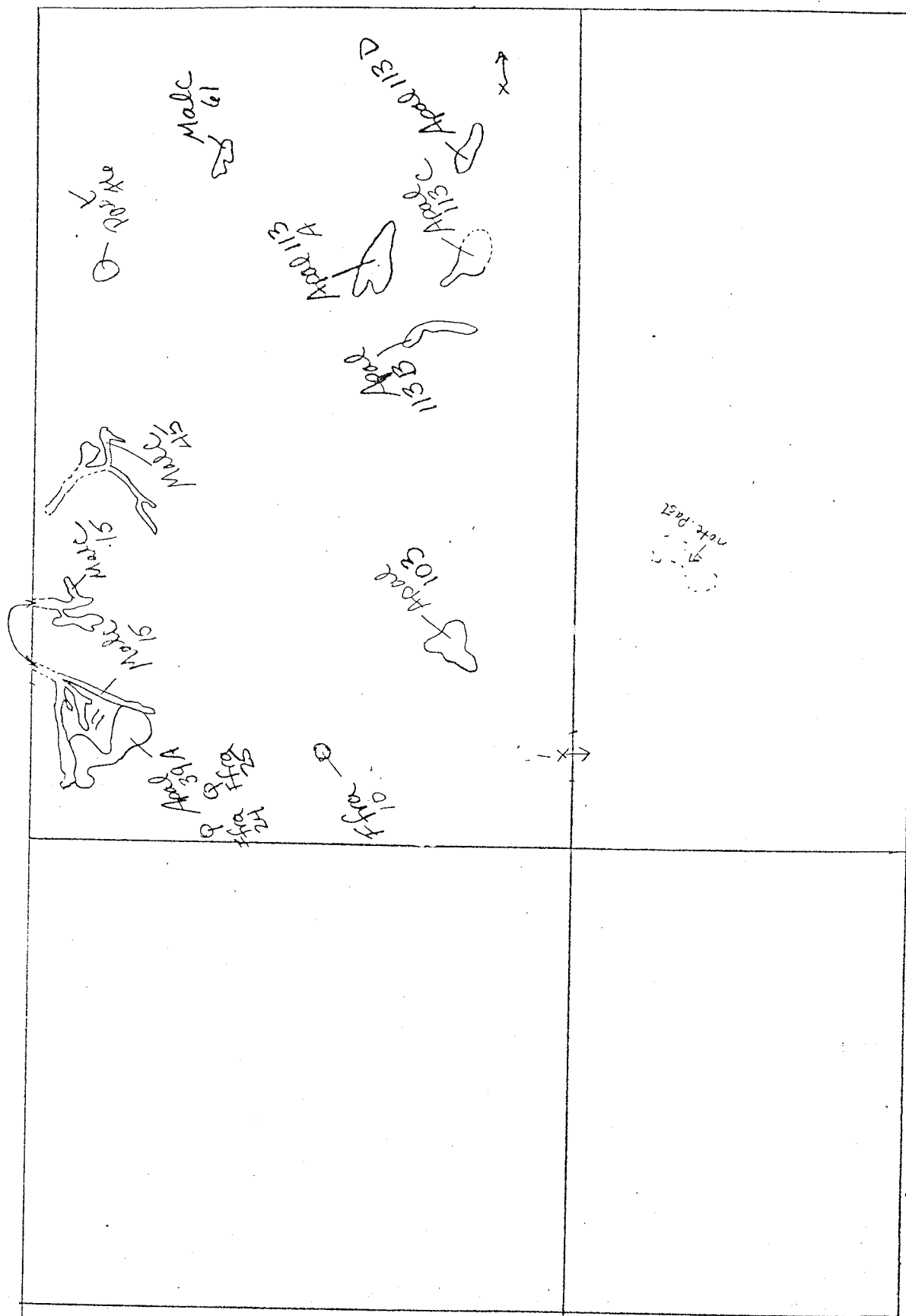
Final check
 All, JWP 05/23/95
 BPO1-19-1994
 2 July
 (Ffra 10 shifted to frame 20 →)
 Mcom 16 MIA

Final check 05/23/95
JWP, OM

BPOL-20-1994

2 July

Ffra 24 SR
Ffra 25 SR
(Ffra 10 shifted from frame 19)
Past 76 RE
April 113 FI



		Male 100 ♂ Fra 26 Dist 1 Post 20 Fra 27 Male 79 Male 19 Post 51 Post 50

Fra 27 SR
 Fra 28 SR
 Male 100 SR
 Male 46 DEAO

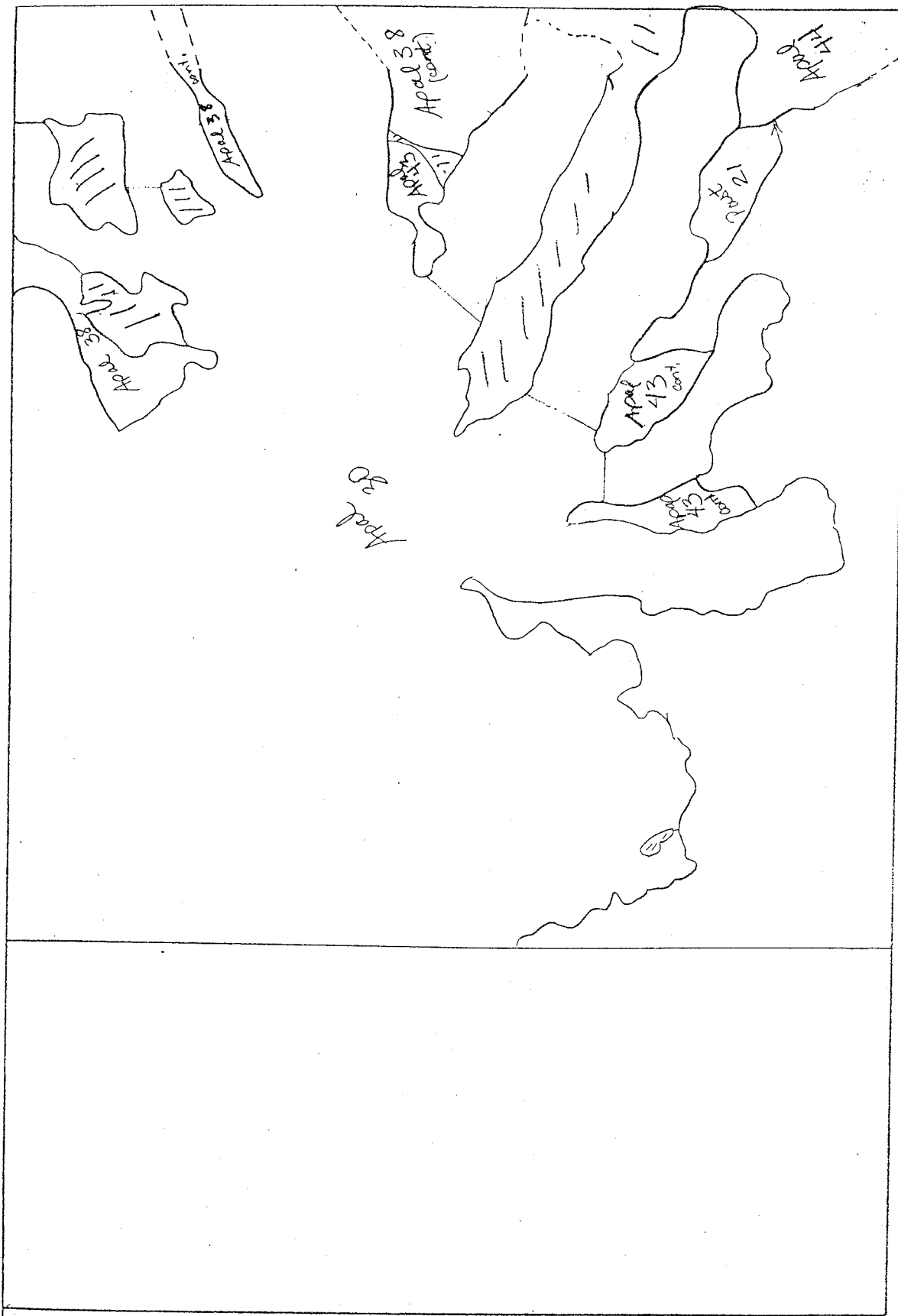
2 July

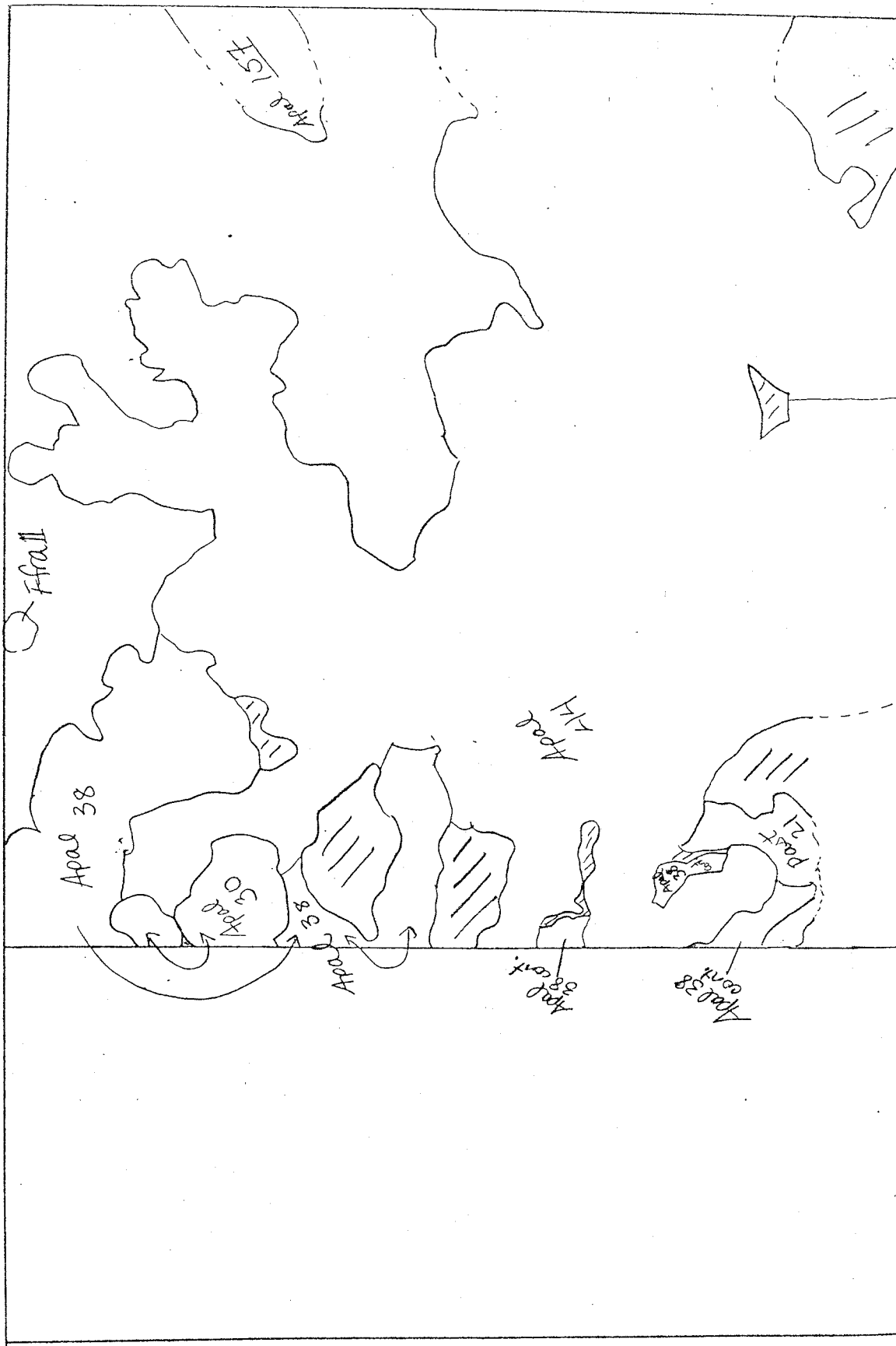
BP01-21-1994

Final Check
 GWP, OM 05/23/25

2 July

(April 44 growth in)



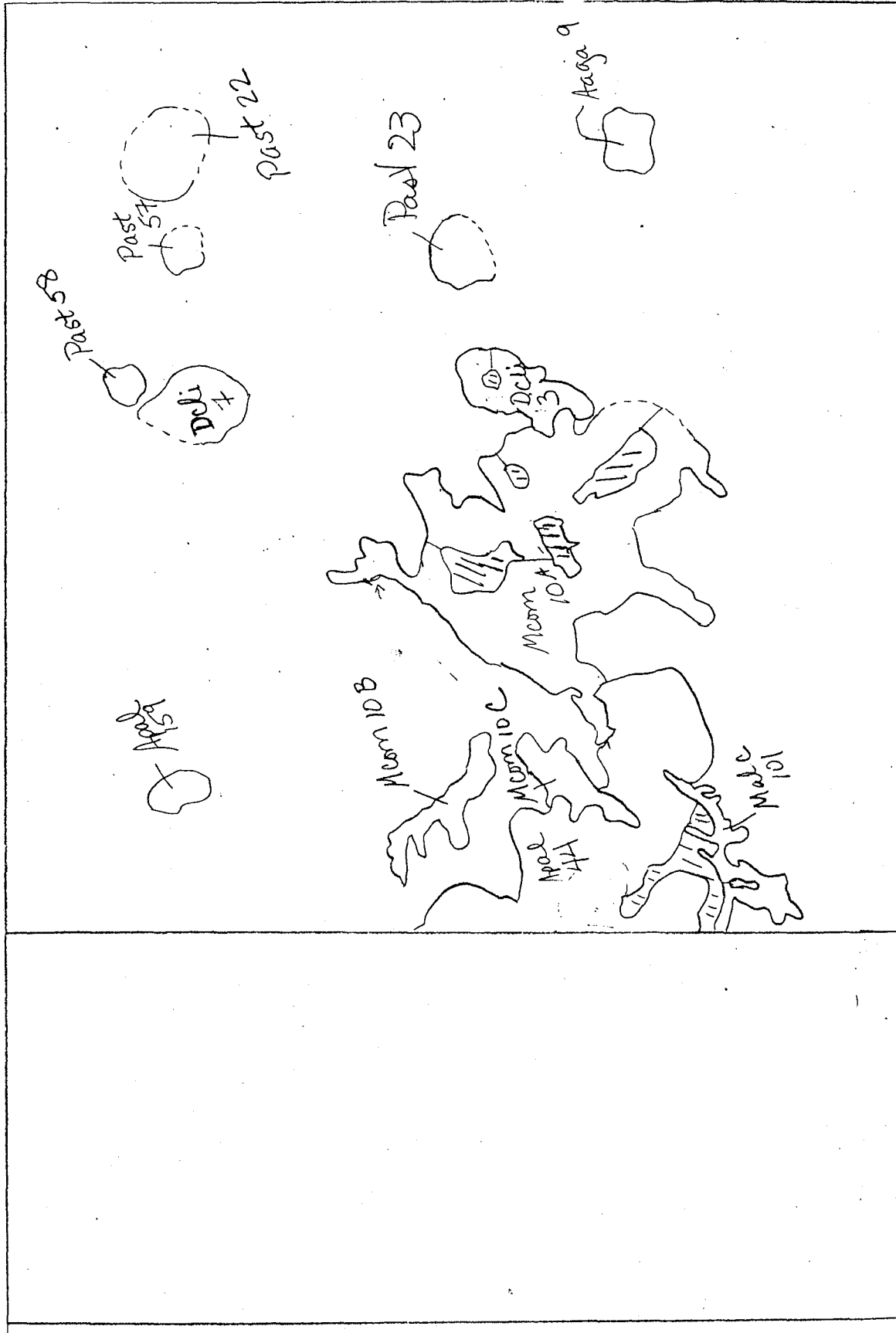


Apal 157 TR
Male 62 MIA

29 July

AP01-23-1994

Final check
05/23/95
OM, QWP



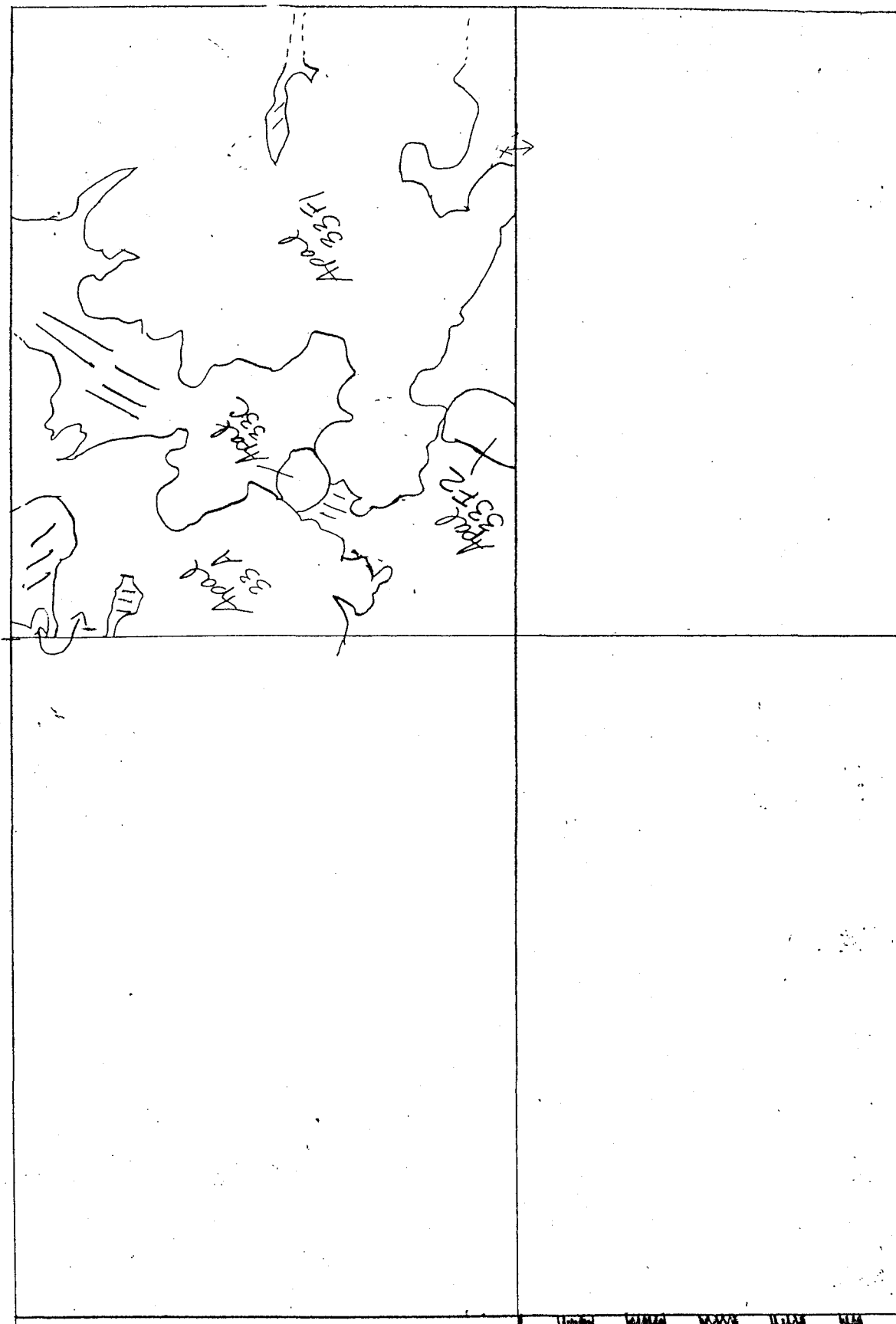
Apr 93 DE
 Aug 10 MIA
 Dec 14 Dead
 Dec 15 Dead
 Post 57 Dead
 Apr 94 Dead

Moom 10 FI
 Apr 159 RE
 Moom 101 SR
 Dec 17 RE

2 July

BP01-24-1994

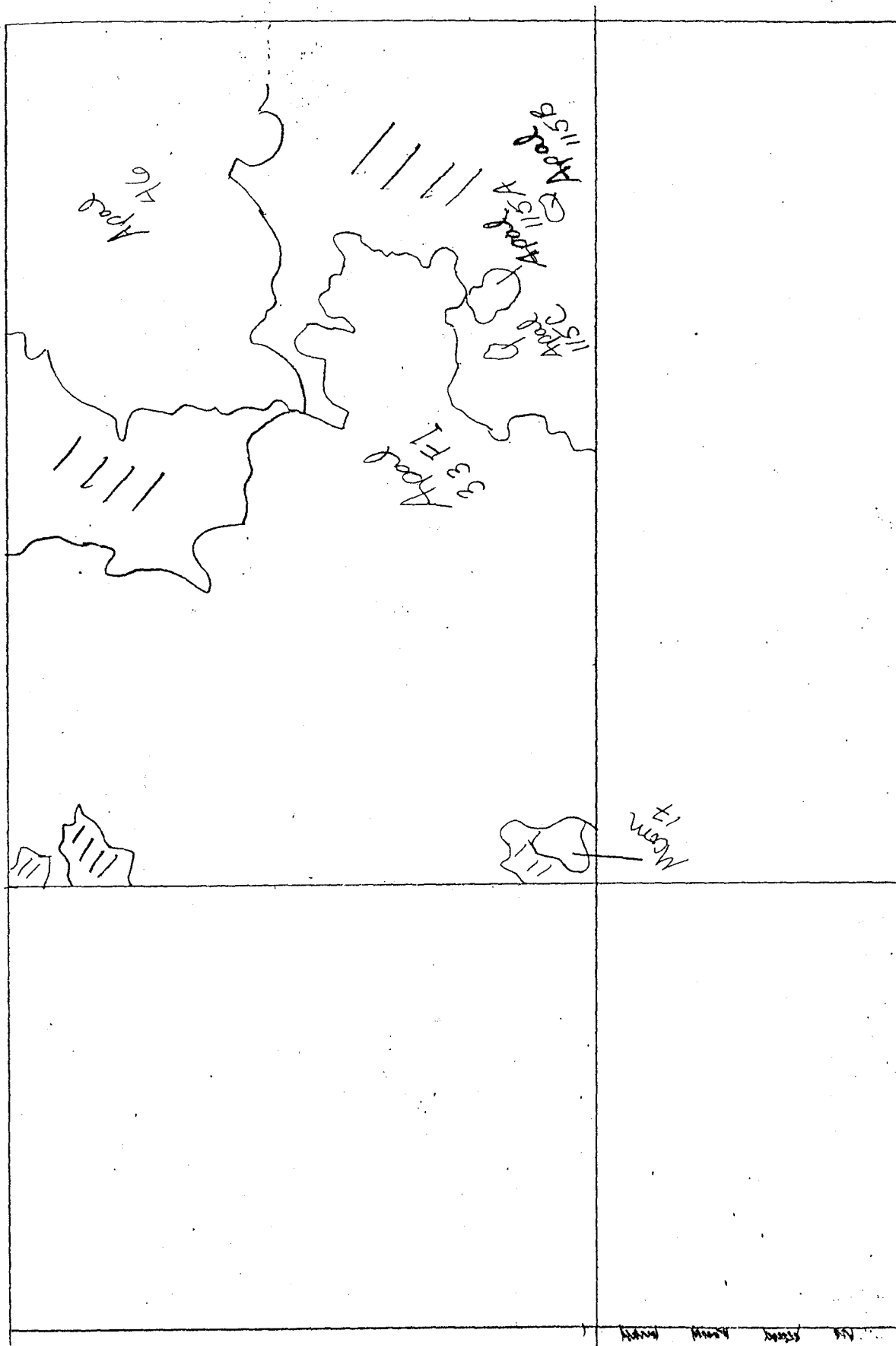
Final Check
 05/23/95
 JW P, DM



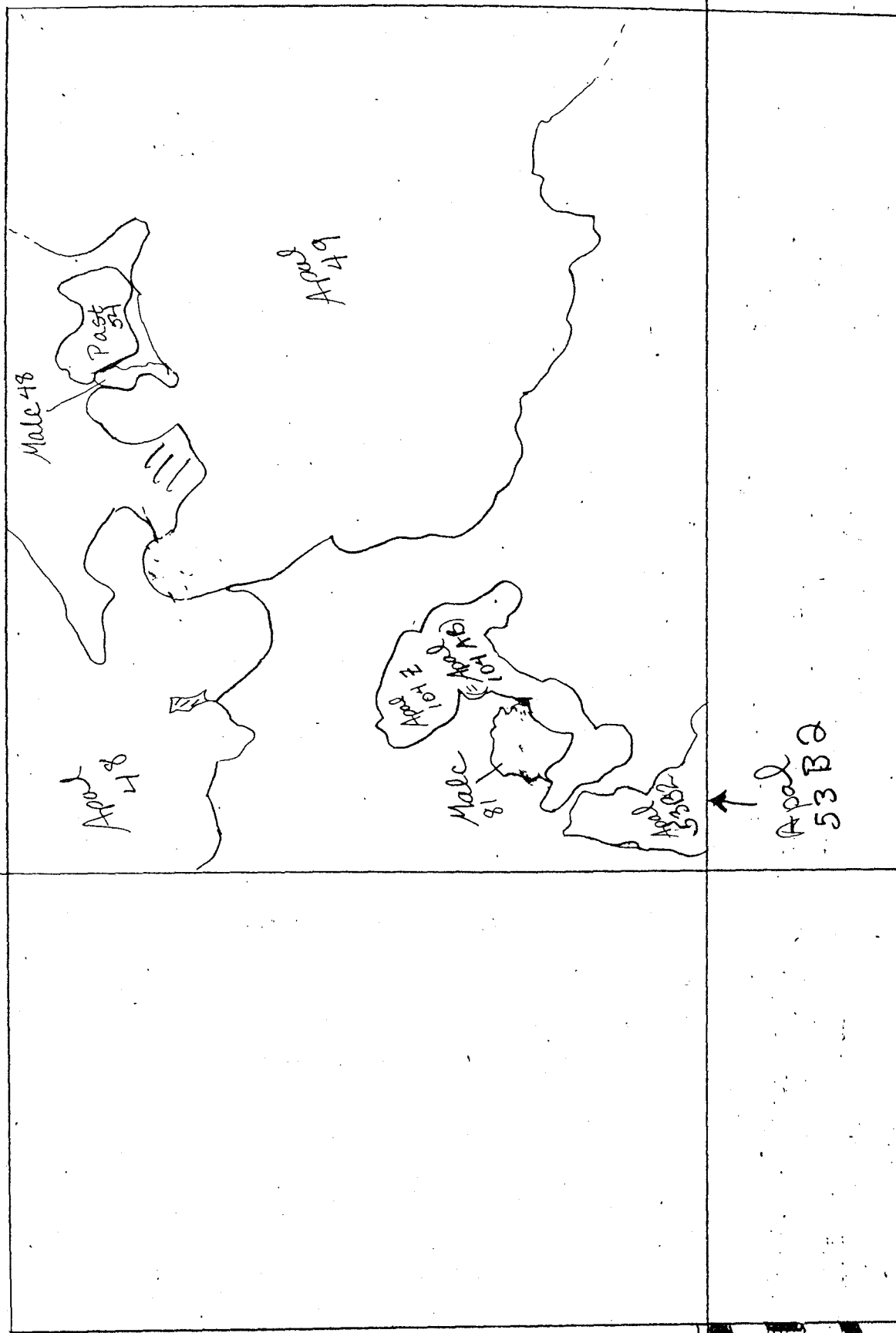
Apal 33 F FI
 Apal 33 B DEAD
 Apal 33 D DEAD
 Apal 33 E DEAD

BP01-25-1994 (2 July)

Final Check
 JWP, OM 05/24/95



FUSION!



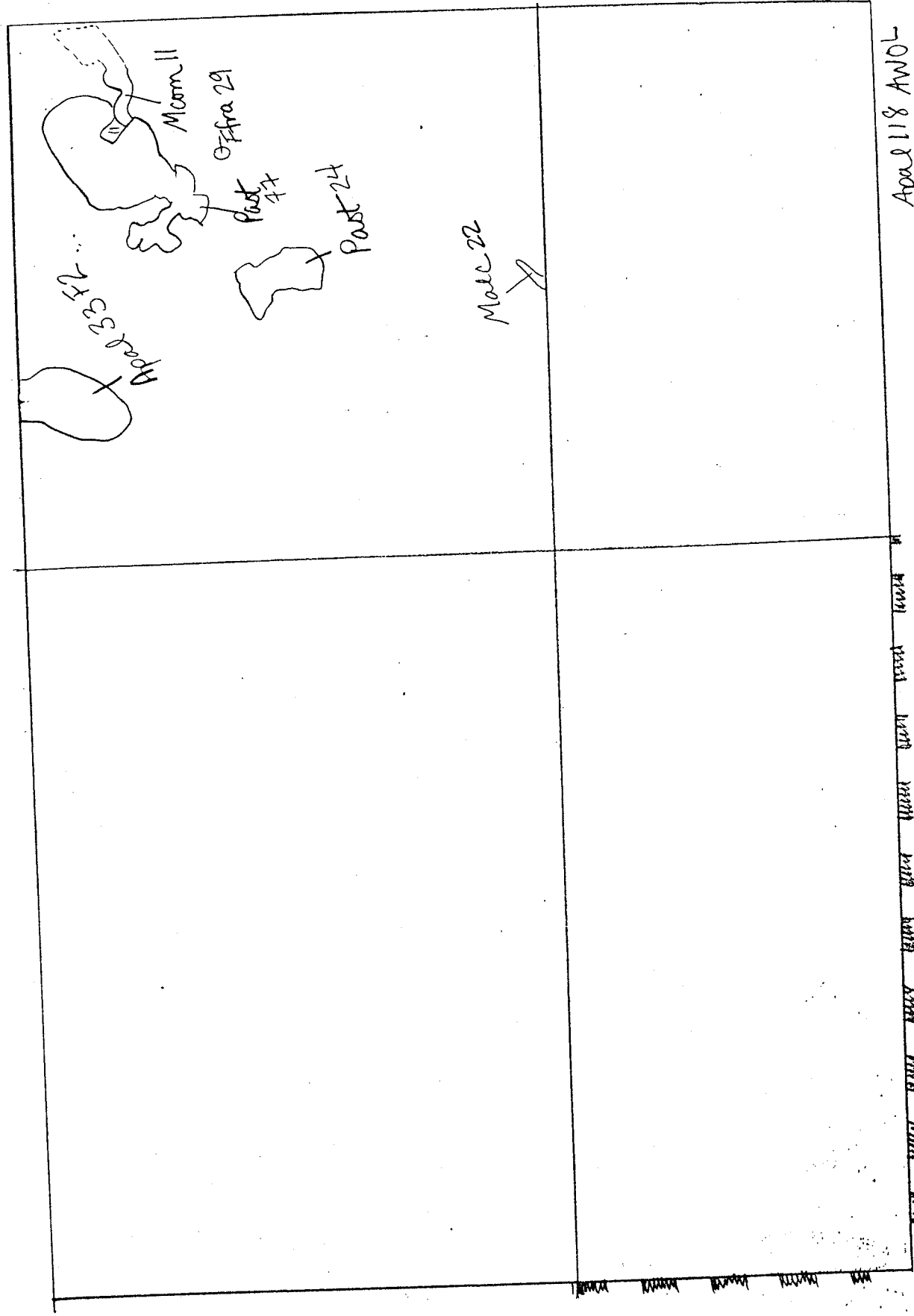
Apal 104 A+B FU
 Rename Apal 104 AB = 104 Z
 (Apal 53 B against in)
 Part 31 MIA
 Ffra 12 DEFAD
 Male 49 AWOOL
 Part 41 MIA

8P01-27-1994 (2 July)

Final Check

05/24/95

JWP, O.M.

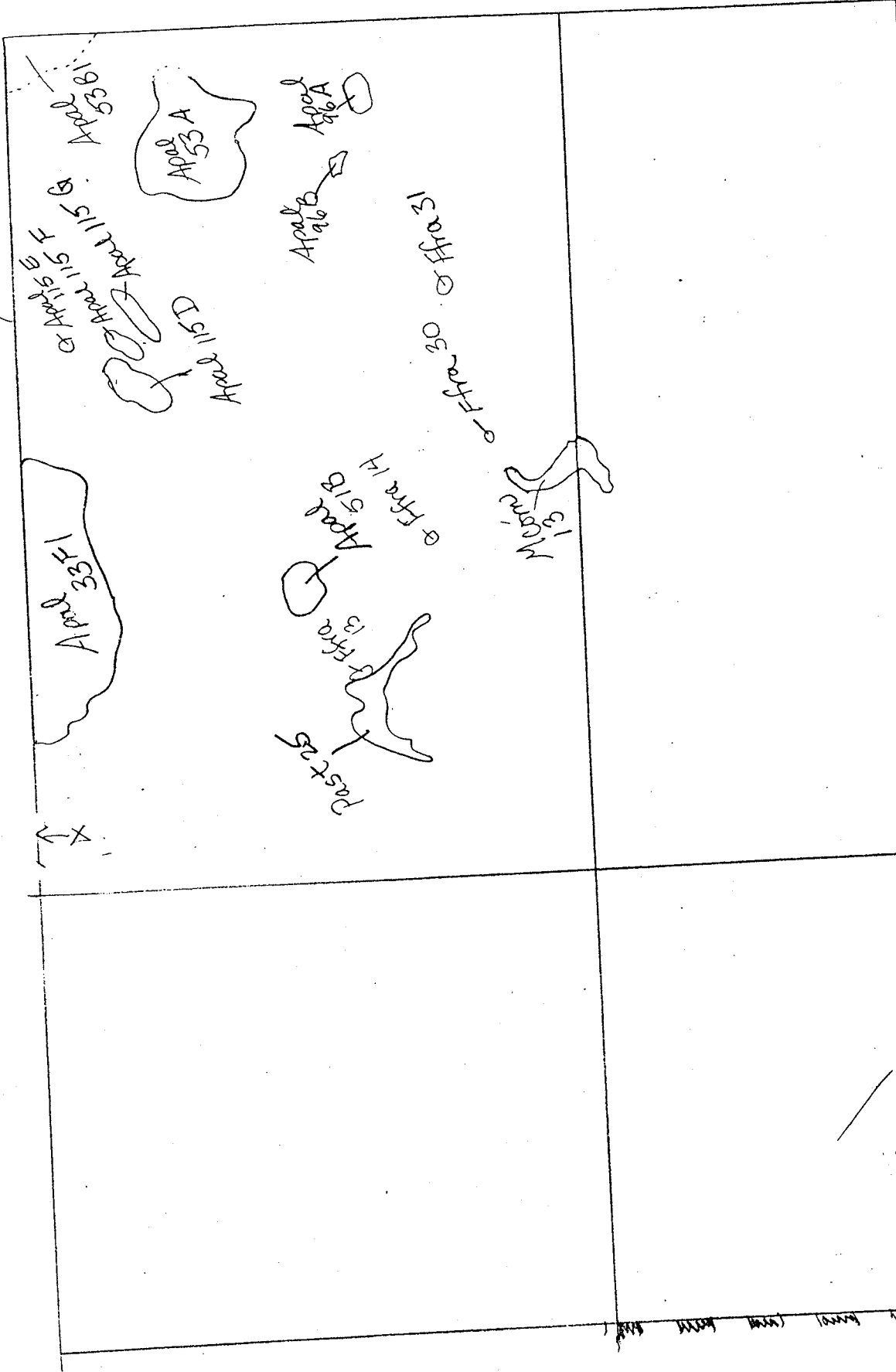


Appl 118 ANOL
 Past 74 RE
 Ffra 29 SR
 (Mall 22 grow #1 in)

BP01-28-1994 (2 July)

Final check
 JWP, OM 05/24/95

(Apal 115AB, C)

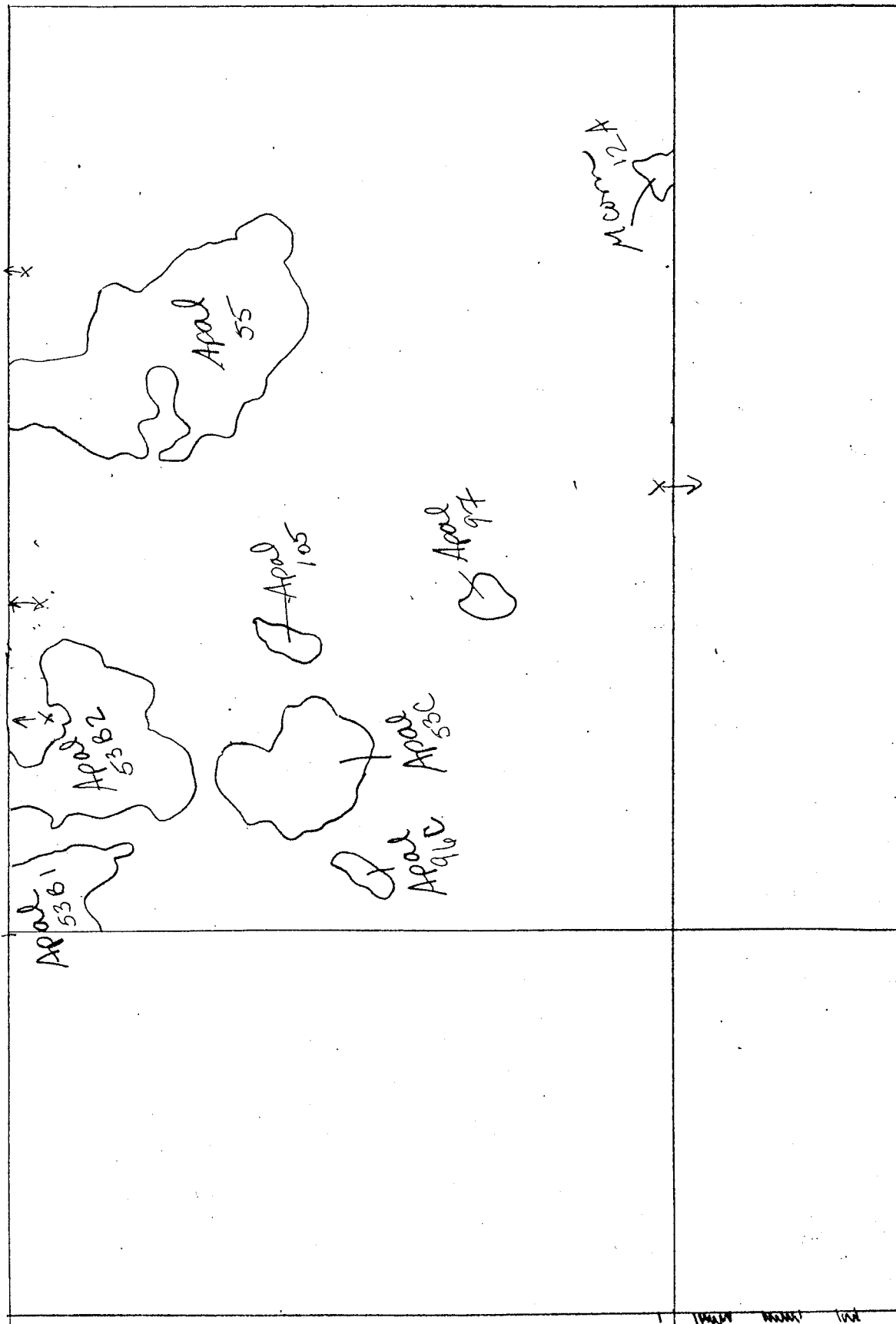


Apal 119 H1A
Apal 95 AWOL

Apal 96 FI Ffra 31 SR
Ffra 30 SR Apal 51A Dead
Apal 115 FI Apal 53B FI
Apal 33F FI Ffra 20 Dead

BPO1-29-1994 (2 July)

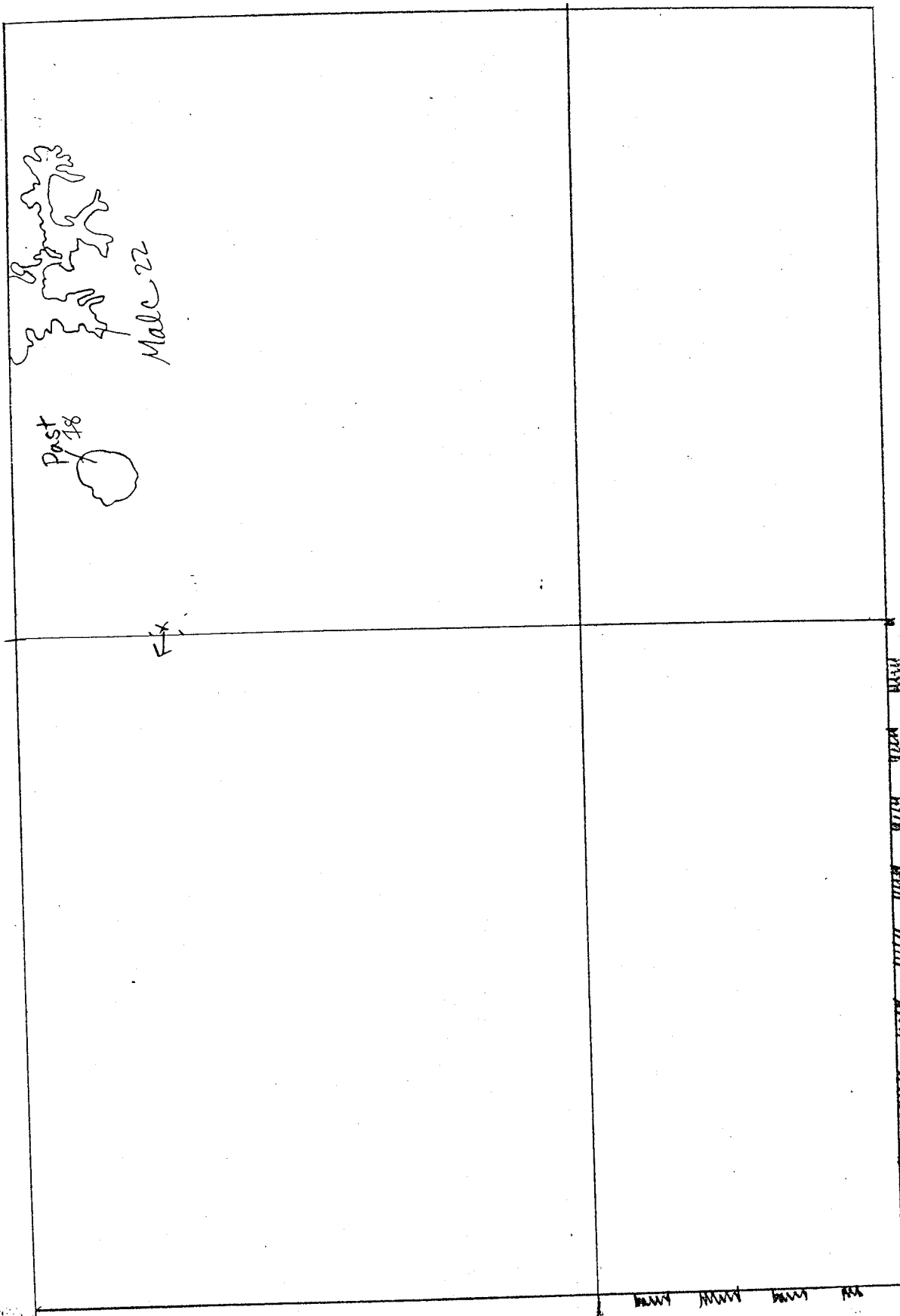
Final check
JWP, OM 05/24/95



Apod 53B FI
 Male 83 DE
 Mcom 12 FI

BP01-30-1994 (2 July)

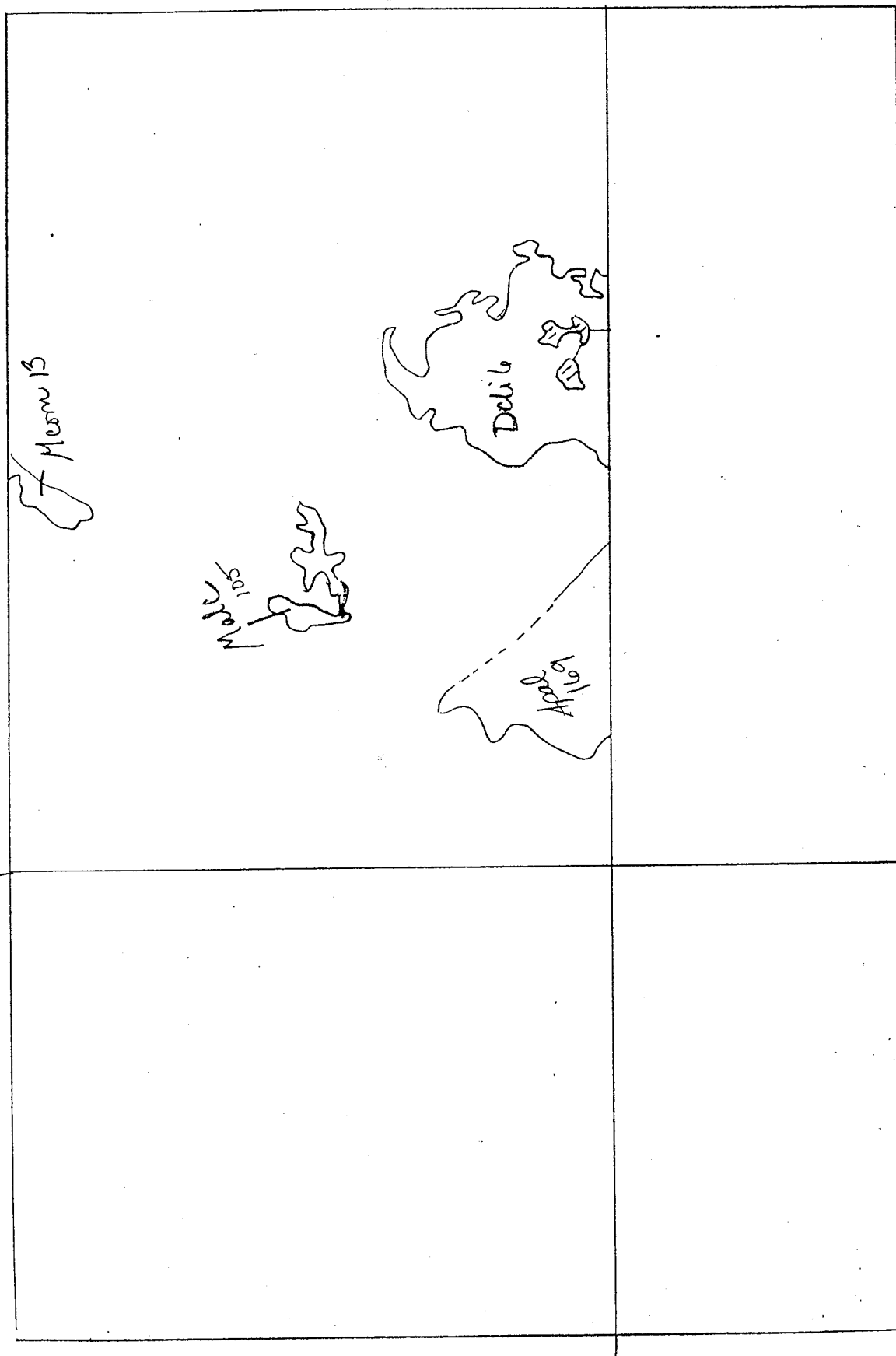
Final check
 JWP, OM 05/24/95



Past 78 SR

BP01-31-1994 (2 July)

Final Check
JWP.OM 05/25/95



Final Check
JWP, OM

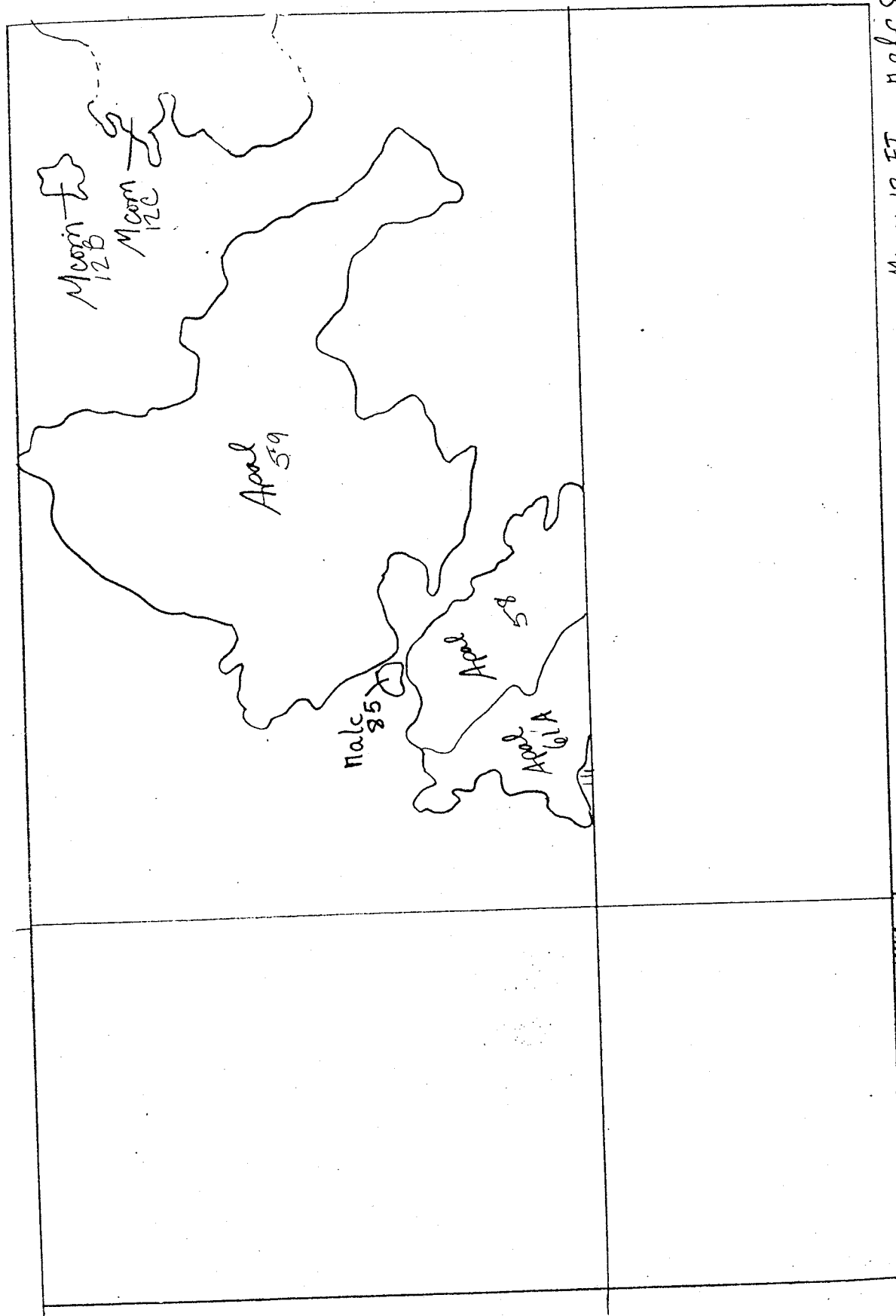
05/24/93

BPO1-32 (2 July)
1994

Male 105 SR. Apat 169 TR

Apat 618 DEAD

Post 65 DEAD (overgrown by Palmyra)



BP01-33-1994 (2 July)

Nalc 84DE

Moon 12 FI
Post 66 DE
Aaga 12 DE

Final Check
JWP, AM 0524/95

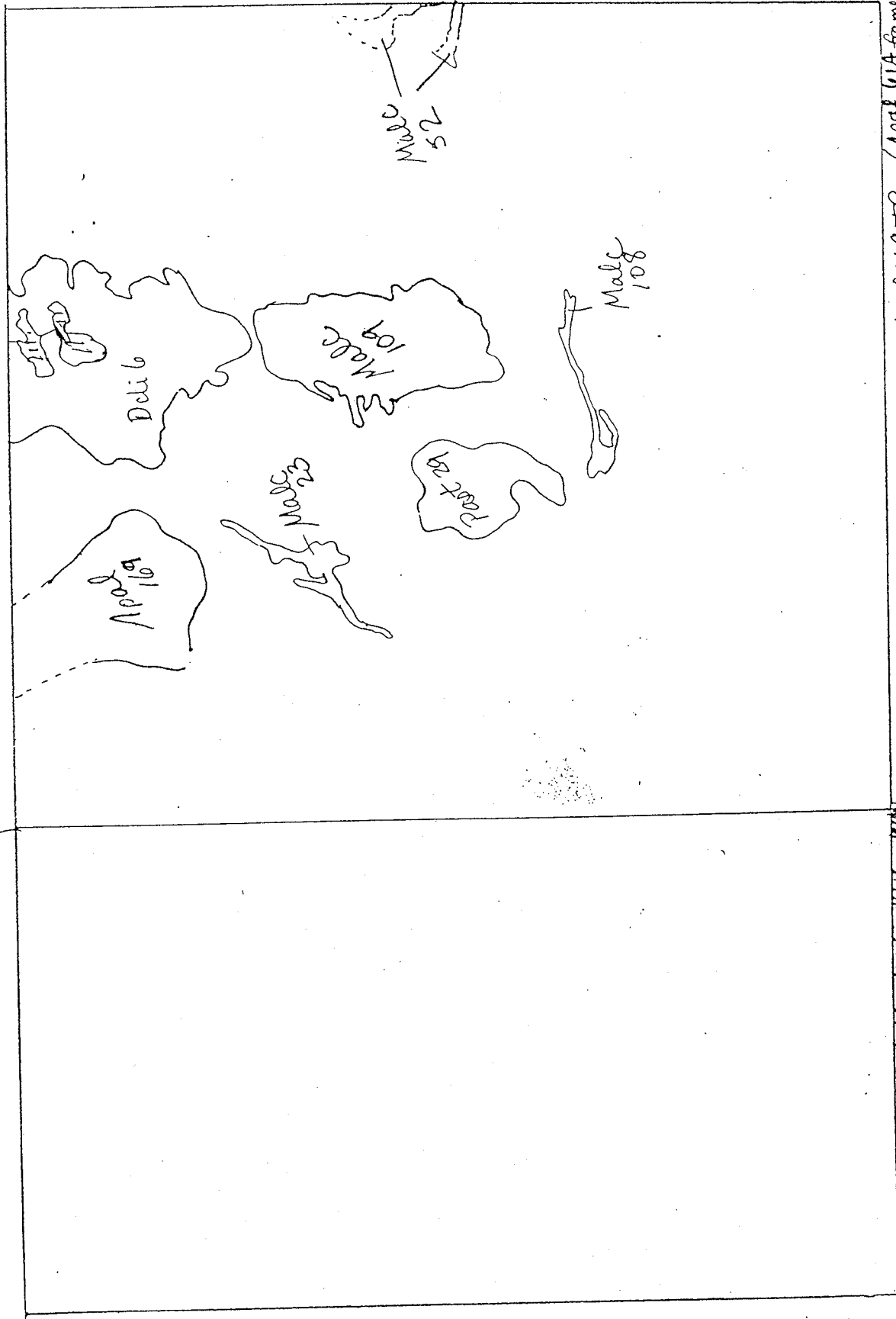
Male 107
Male 57
Male 106

Apal 60 D DEAD
 Malc 106 SR
 Apal 60 E DEAD
 Apal 60 B DEAD

Apal 60 D DEAD
Malc 106 SR
Apal 60 E DEAD
Apal 60 B DEAD

BPOI-34-1994 (2 July)

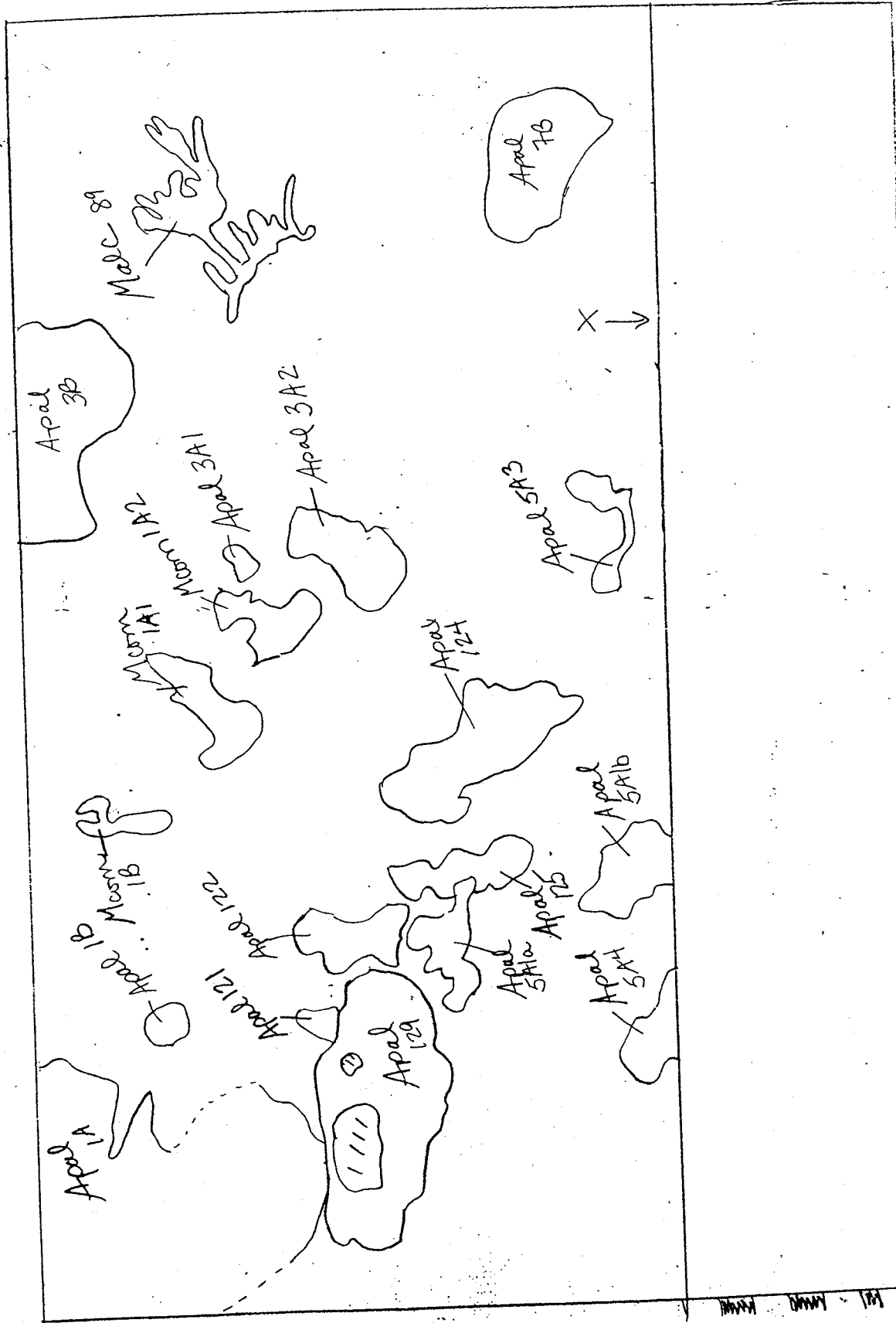
Final Check
#wp, DM 08/24/95



Apal 169 TR
 Male 108 SR
 Male 109 SR
 Male 24 AWOL
 Apal 61A farm shift ->

BP01-35 (2 July)
 1994

find chuck
 OH, QWP05124/95

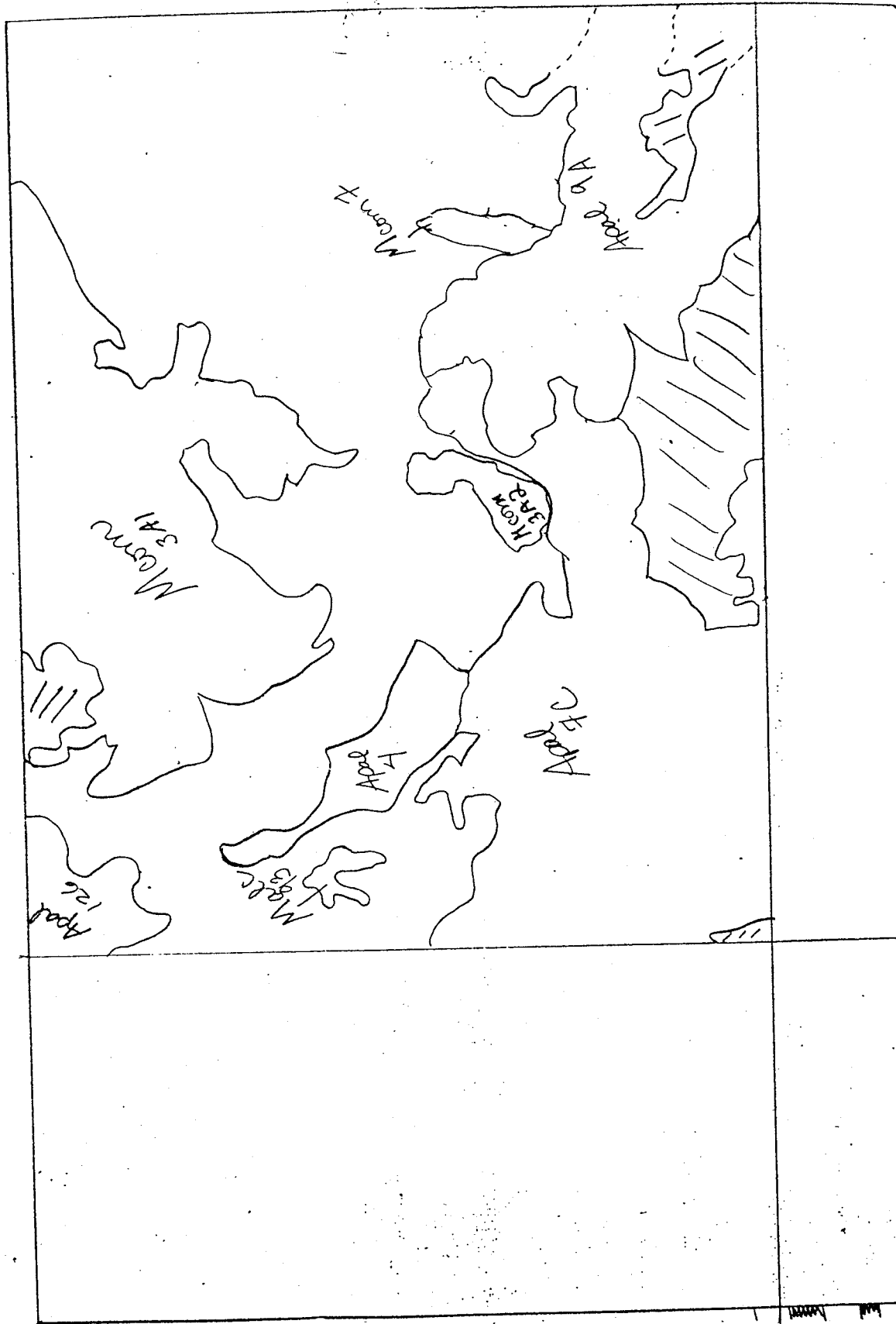


Apal 3C FROOL
 Male 1 M1A
 Apal 123 dead
 Male 2 dead
 Male 90 dead

Final check
 1/20/95

BPOI-01-1995 (1 Dec. 1994)

Apal 129 TR

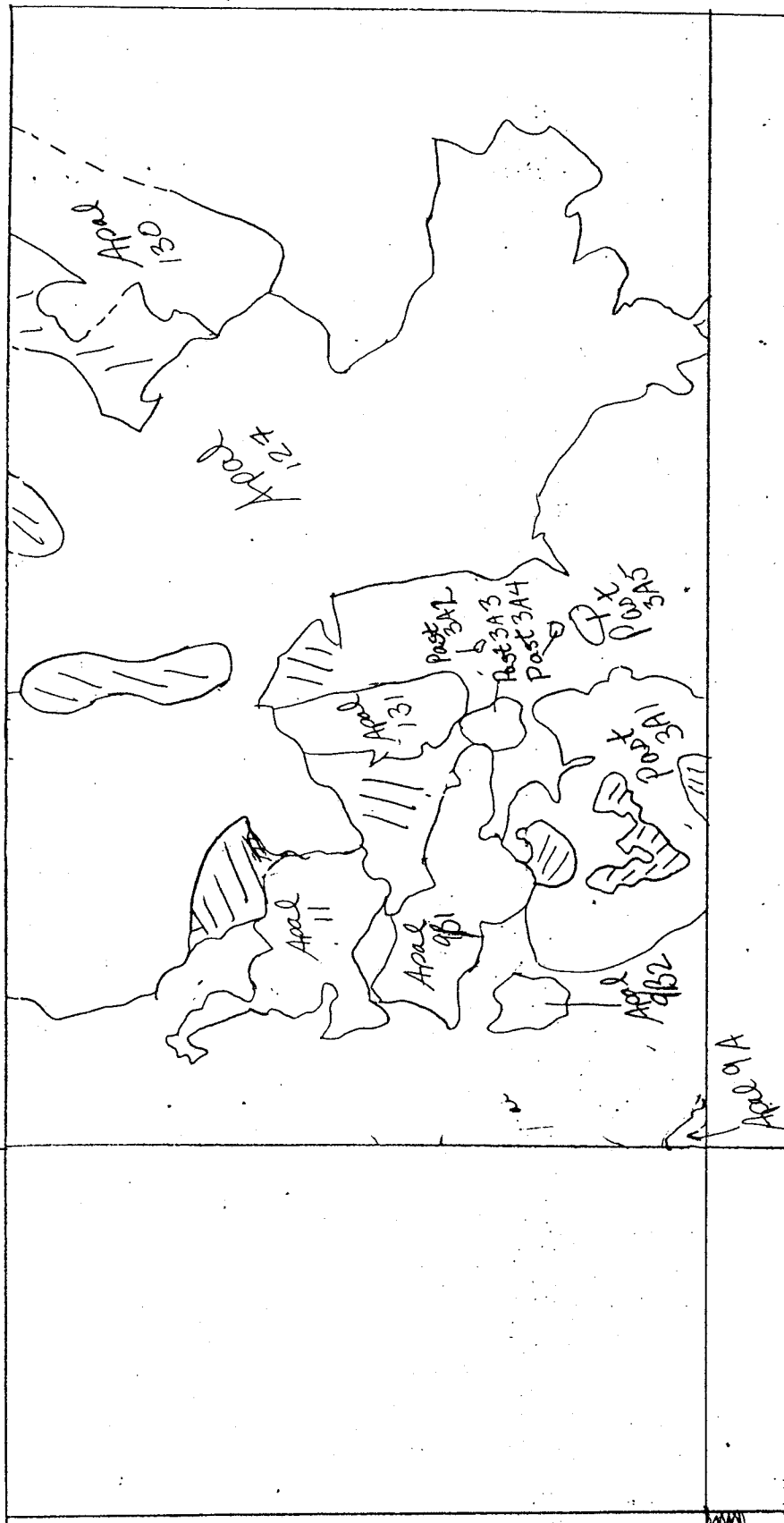


Modc 93 UA

BPO1-02-1995 (1 Dec. 1994)

Final check

FWP, DM 5/95

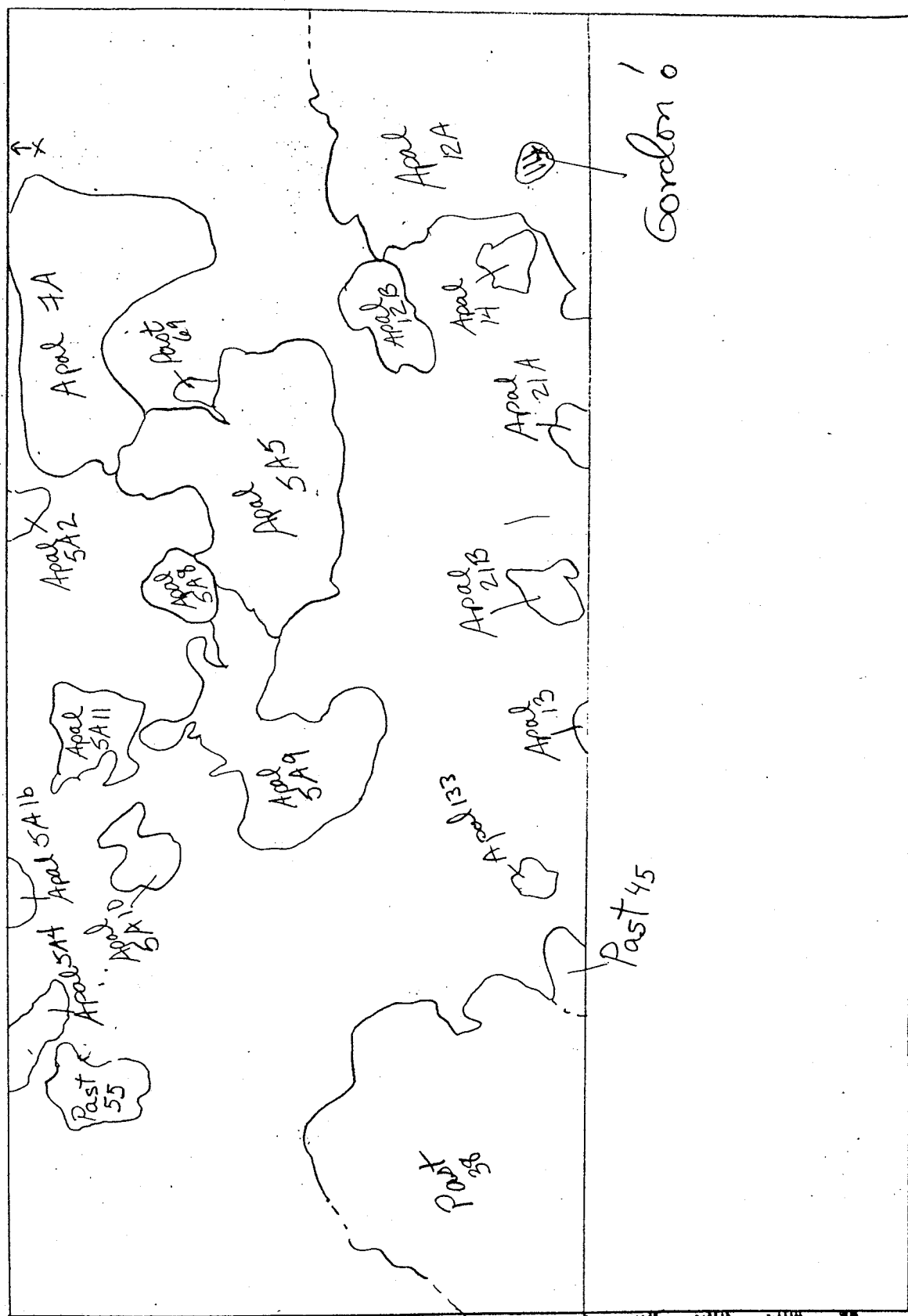


April 131 TR
 April 132 MIA
 April 133 MIA
 April 134 MIA
 April 135 MIA
 April 136 MIA
 April 137 MIA
 April 138 MIA
 April 139 MIA
 April 140 MIA
 April 141 MIA
 April 142 MIA
 April 143 MIA
 April 144 MIA
 April 145 MIA
 April 146 MIA
 April 147 MIA
 April 148 MIA
 April 149 MIA
 April 150 MIA

April 130 TR
 April 131 TR
 April 132 TR
 April 133 TR
 April 134 TR
 April 135 TR
 April 136 TR
 April 137 TR
 April 138 TR
 April 139 TR
 April 140 TR
 April 141 TR
 April 142 TR
 April 143 TR
 April 144 TR
 April 145 TR
 April 146 TR
 April 147 TR
 April 148 TR
 April 149 TR
 April 150 TR

BPO1-03-1995 (1 Dec. 1994)

April 131 TR
 April 132 TR
 April 133 TR
 April 134 TR
 April 135 TR
 April 136 TR
 April 137 TR
 April 138 TR
 April 139 TR
 April 140 TR
 April 141 TR
 April 142 TR
 April 143 TR
 April 144 TR
 April 145 TR
 April 146 TR
 April 147 TR
 April 148 TR
 April 149 TR
 April 150 TR

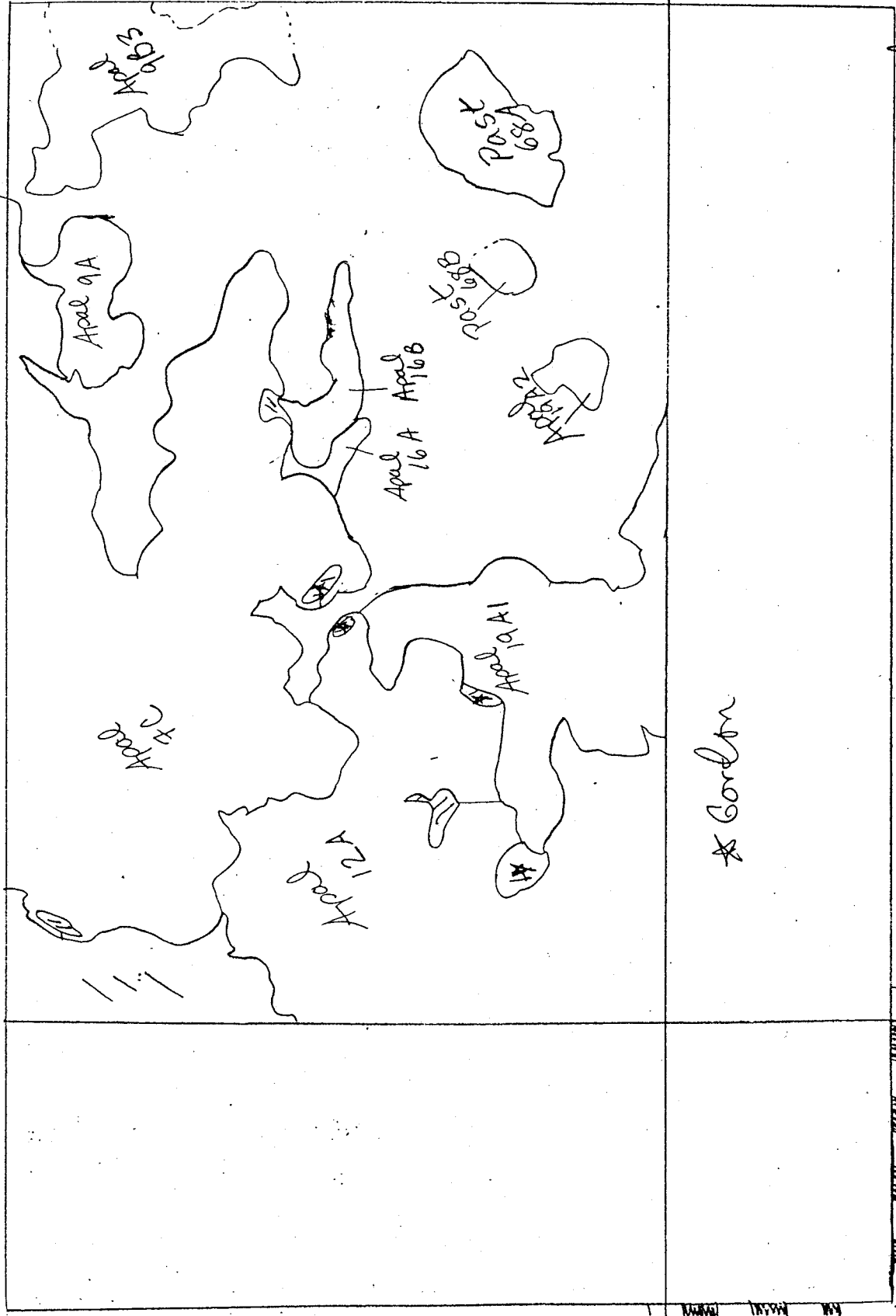


Final check JWP, OM 5/95

BP01-04-1995 (1 Dec. 1994)

*GB (Gordon blow)
Apal 5A6 MI
Am 5A7 MI

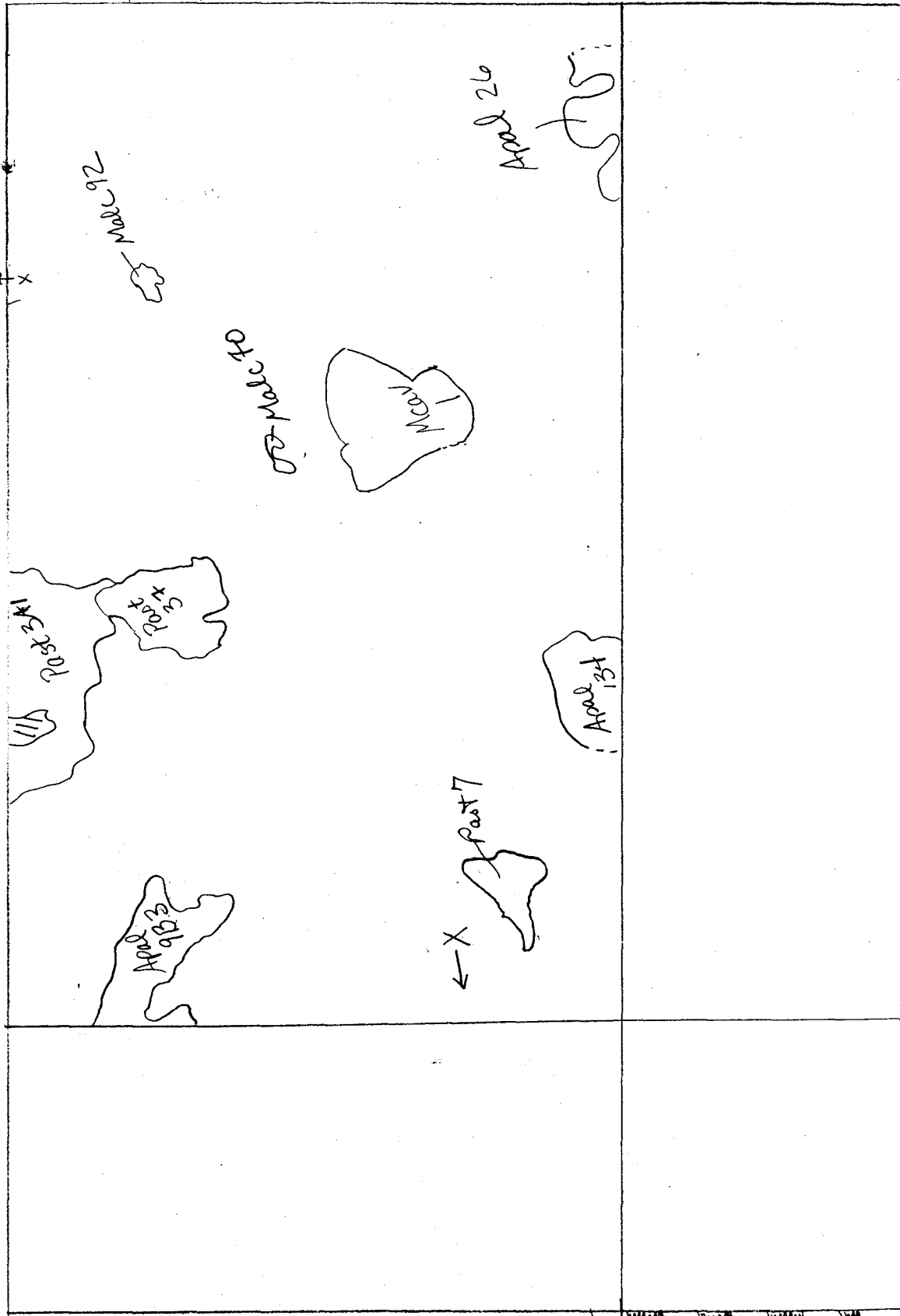
This frame shows Gordon breakage plus the death of
 A pal fragment (from Andrew) that died



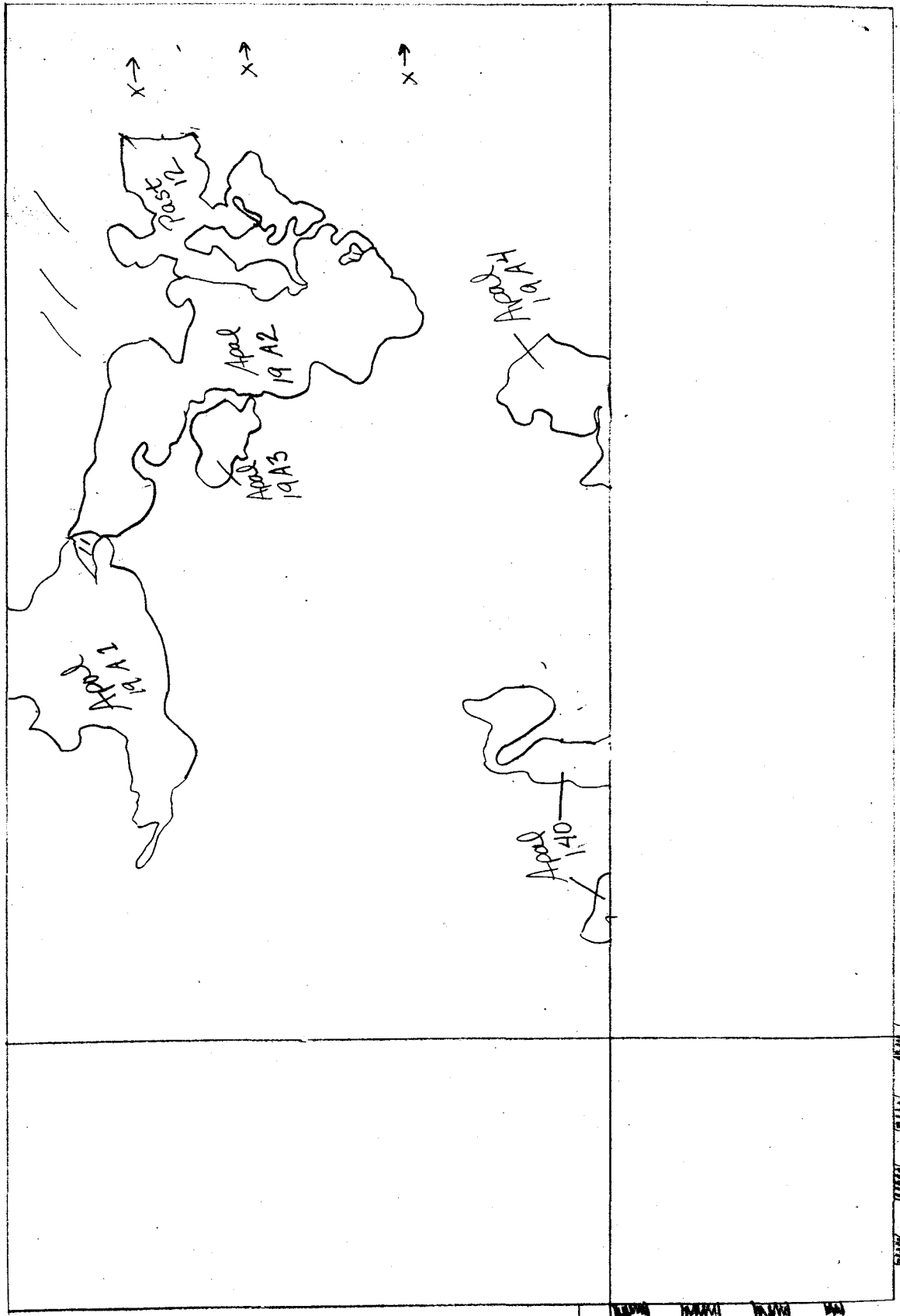
Final check
 JW POM 5/95

BP01-05-1995 (1 Dec. 1994)

April 132 dead



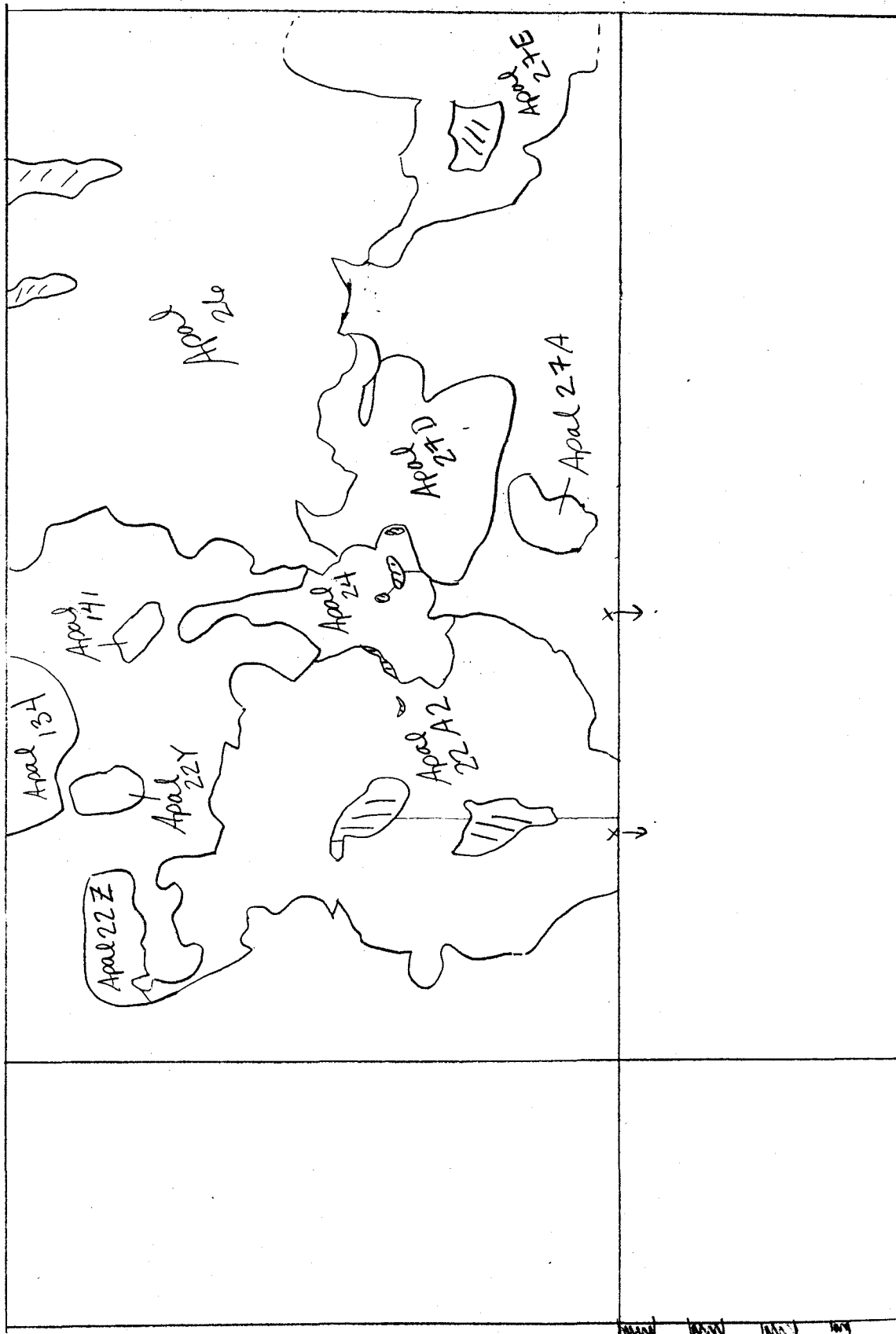
Final check
 JWP, DM
 5/95
 modif 9/1/95
 Post 2 dead
 BP01-06-1995 (1 Dec. 1994)
 Male 92 SR Male 91 DE
 April 135 AW April 136 DE
 April 139 DE



Apal 19A FI
 Apal 19A TR
 Apal 22B Dead

BPO1-08-1995 (1 Dec. 1995)

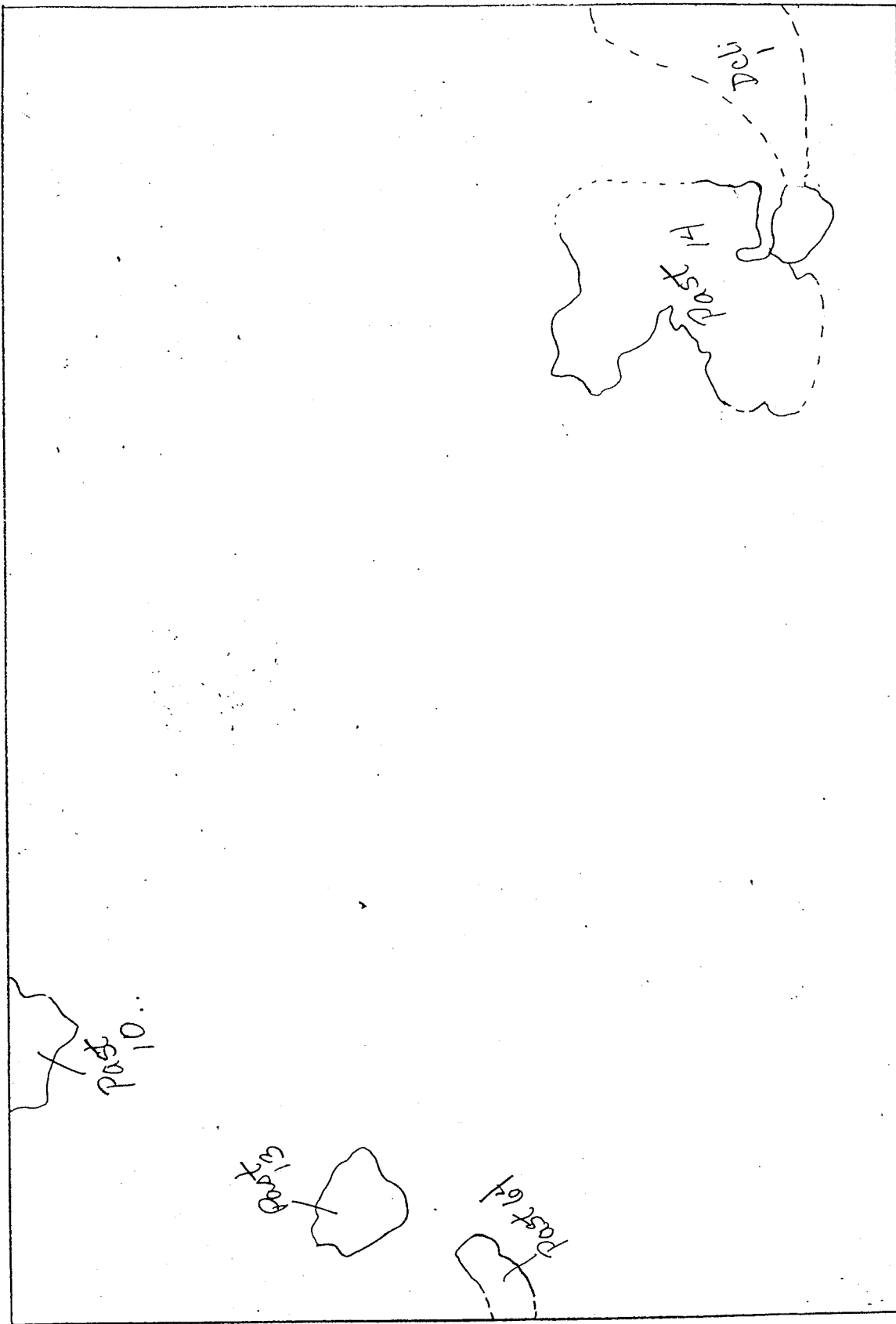
Final check
 JWP, OM 5/95



April 22 AS AW April 25 M
 April 14 RE
 April 27 FI
 April 138 AWOL
 April 135 AWOL

BP01-09-1995 (1 Dec. 1994)

Final Check
 JWP, OM 5195



Final Check
JWP:OM.
5/95

BPOI-10-1995 (1 Dec, 1994)

Male 33 Anol

Male 32 Dead

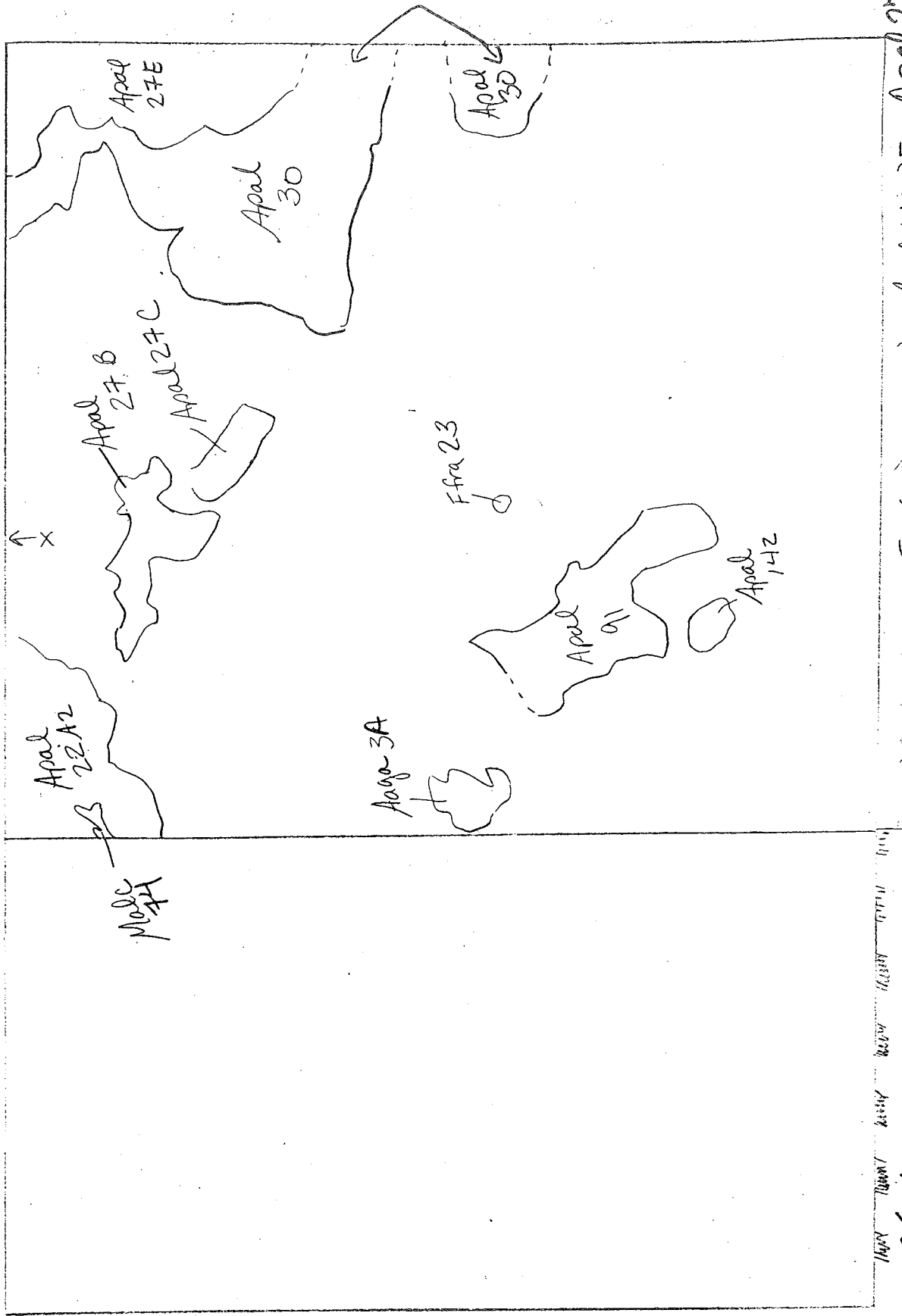
Final Check
JWP, OM 5/95

6001-11-1995 (1 Dec. 1994)

Past 50 RE
Past 28 MIA

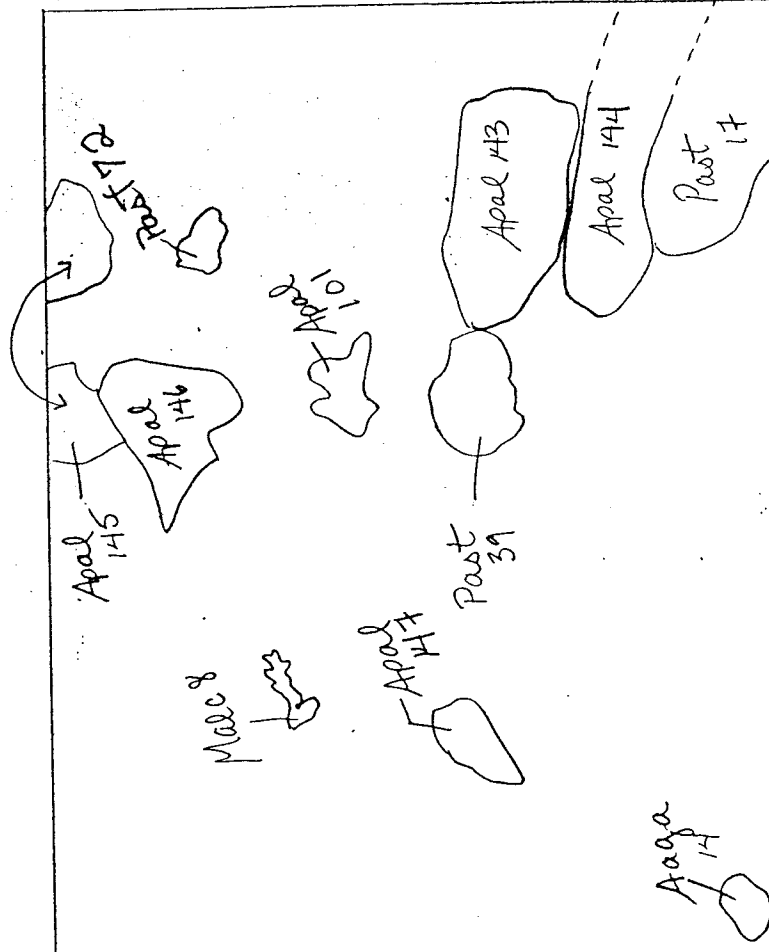
Apal 9A FI
Apal 140 TR
Ffra 22 MI
Deli 8 MI

(April 24)



Final Check
JWP, OM 5195

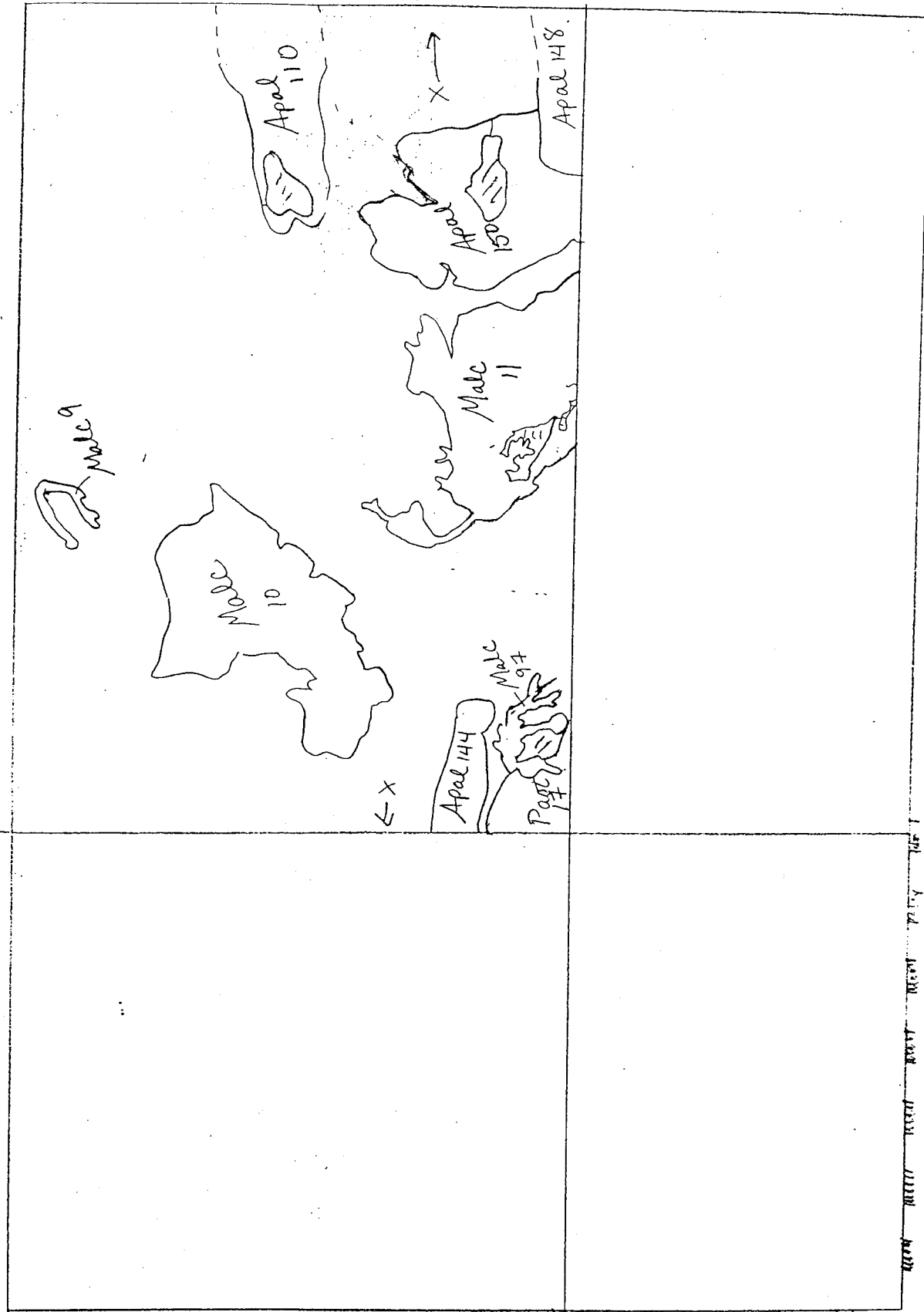
6/01-12-1995 (1 Dec. 1994)
Apal 142 RE
Ffra 23 SR
Aaga 3B Deed



Apal 145 TR
 Apal 146 TR
 Apal 147 TR
 Male 38 ANOL
 Past 71 ANOL
 Apal 143 TR
 Apal 144 TR
 Male 96 ANOL

BPOI-13-1995 (1 Dec. 1994)

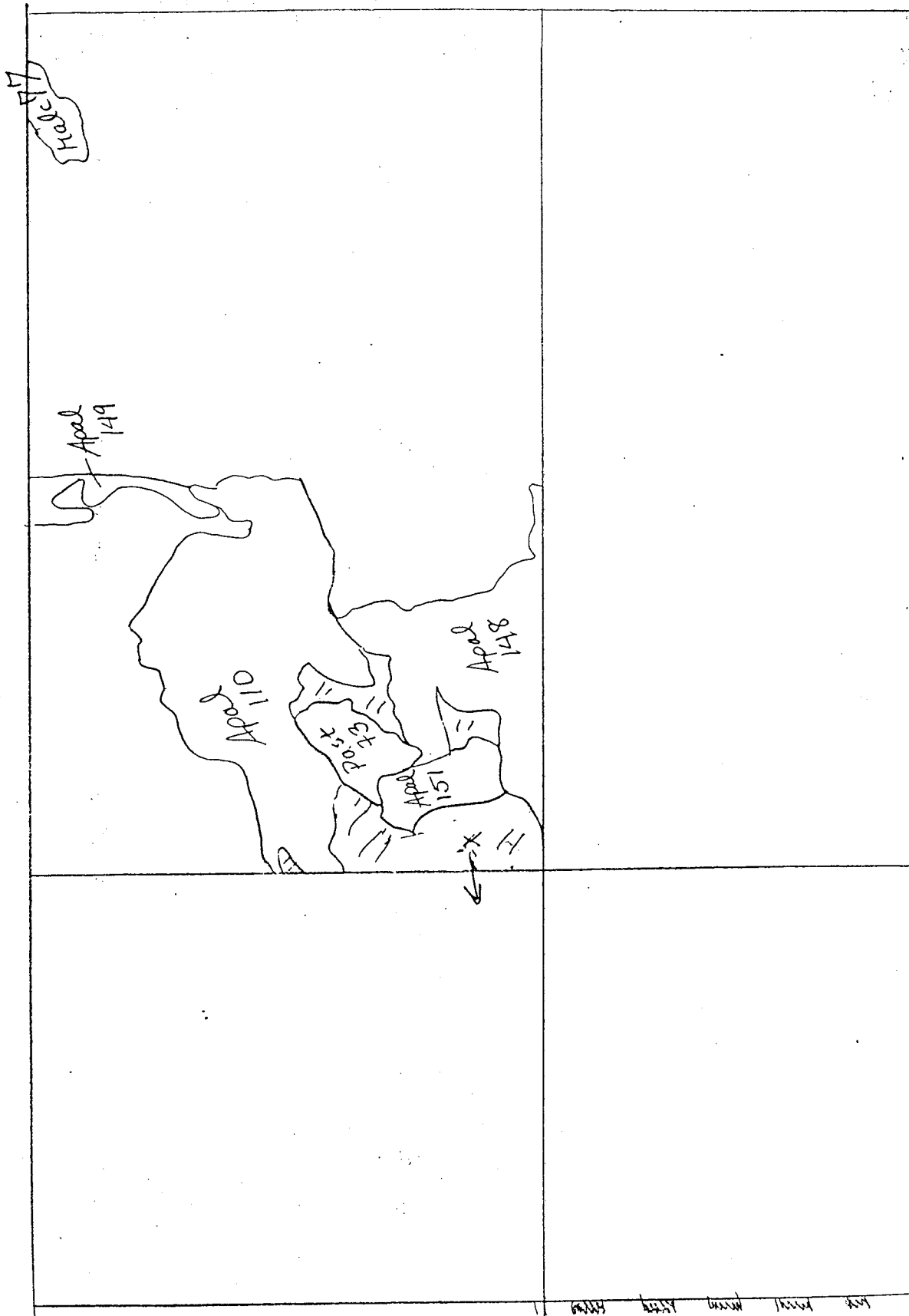
JWP Final Check
 OM 5/95



← Apal 144 TR
 Apal 150 TR
 Apal 148 TR

BP01-14-1-1995 (1 Dec. 1994)

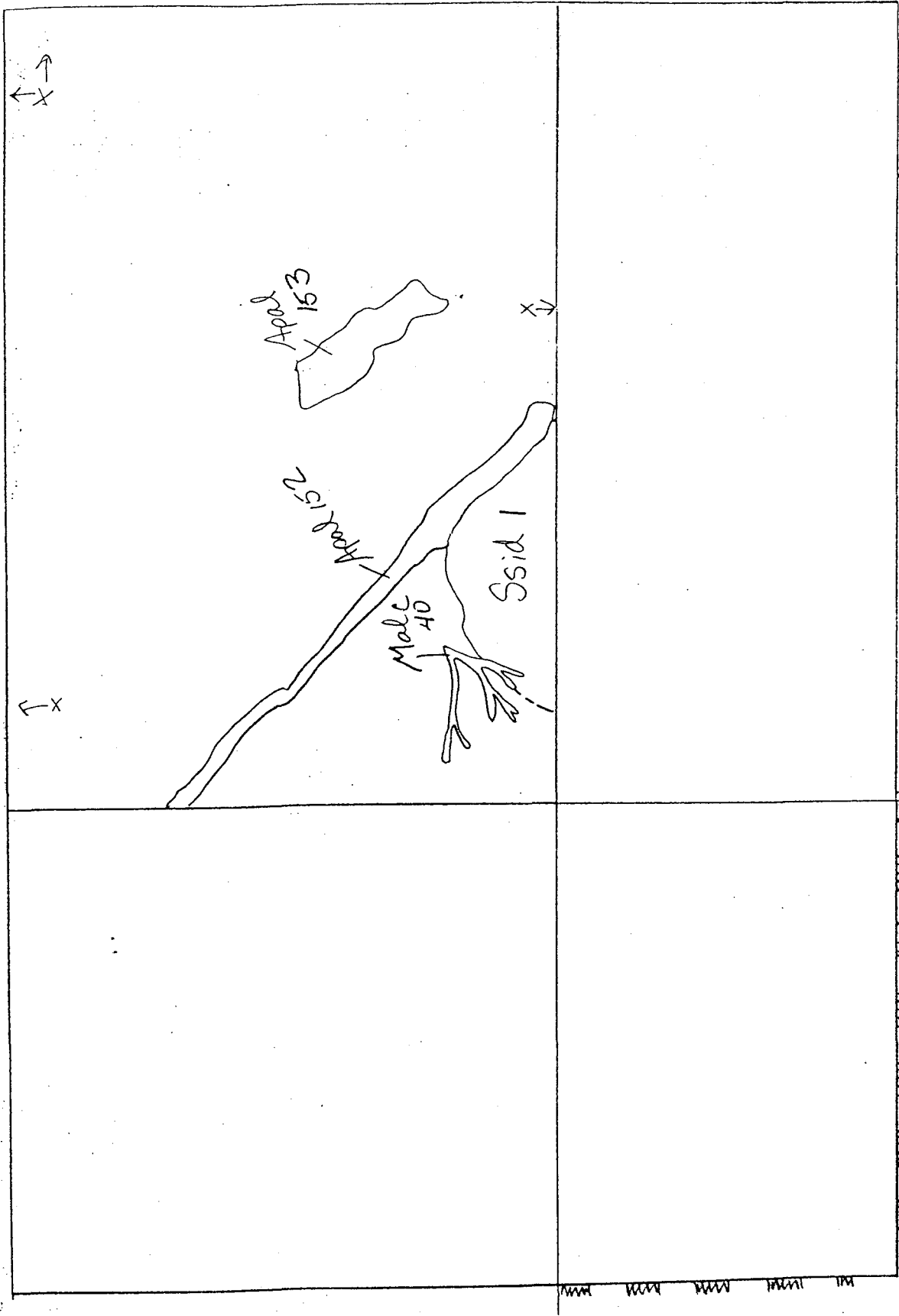
Final check
 LIP - n - 105



Apal 148 TR (determine origin?)
 Apal 149 TR
 Apal 151 TR
 Apal 158 TR
 Apal 110 MIA
 Apal 112 MIA

801-15-1995 (1 Dec. 1994)

Final Check
 FWP, PM 5195



Apal 152 TR
Apal 153 TR

BP01-16-1995 (1 Dec. 1994)

Figl dech
800p 05/23/96
6M

April 32 A MIA
April 154 MIA
April 148 TR

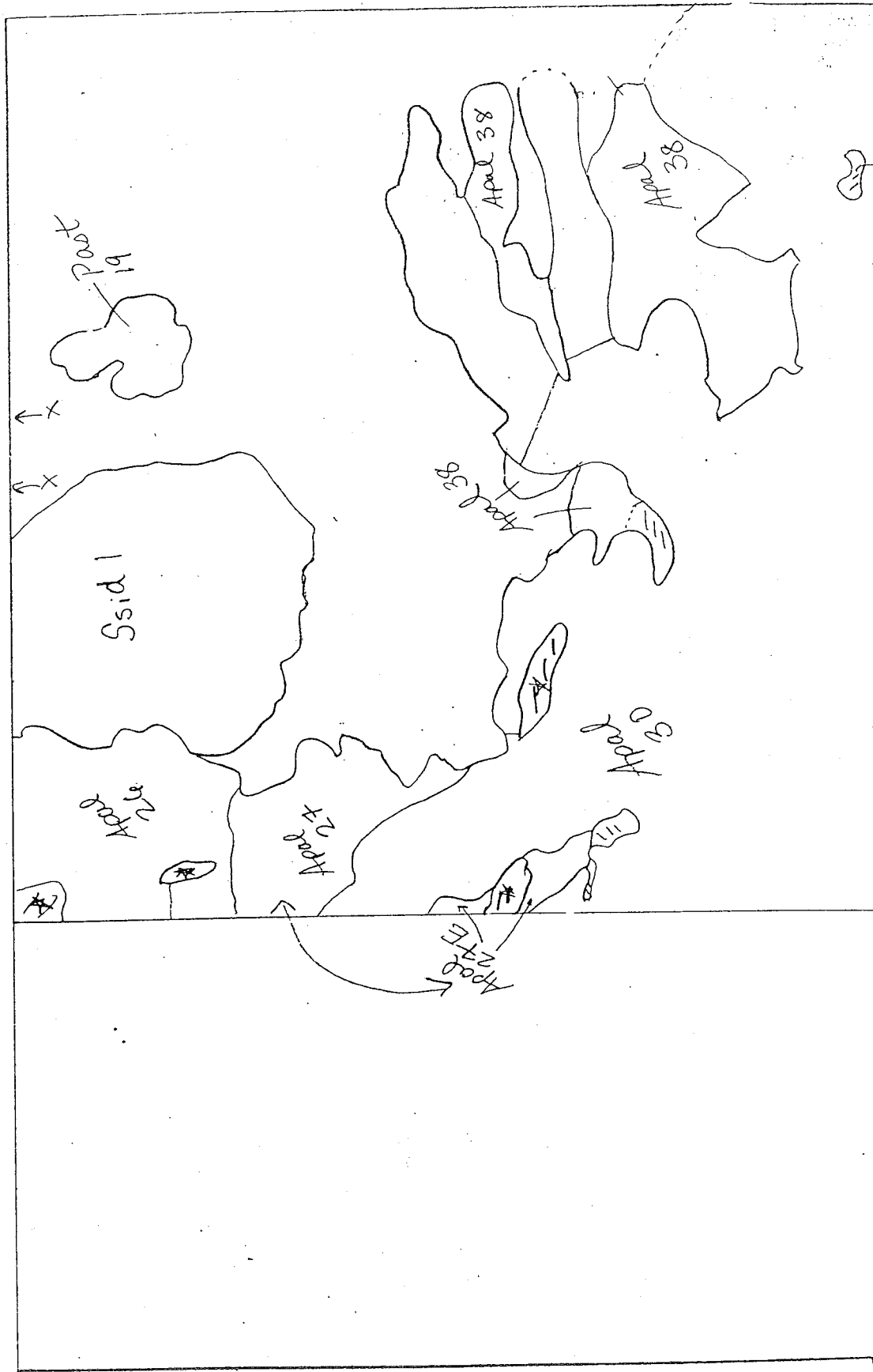
BP01-18-1995 (1 Dec. 1994)

March 1914 West 12000 and

Final Check
SWP 05/23/95
OM

APC 1/17/8

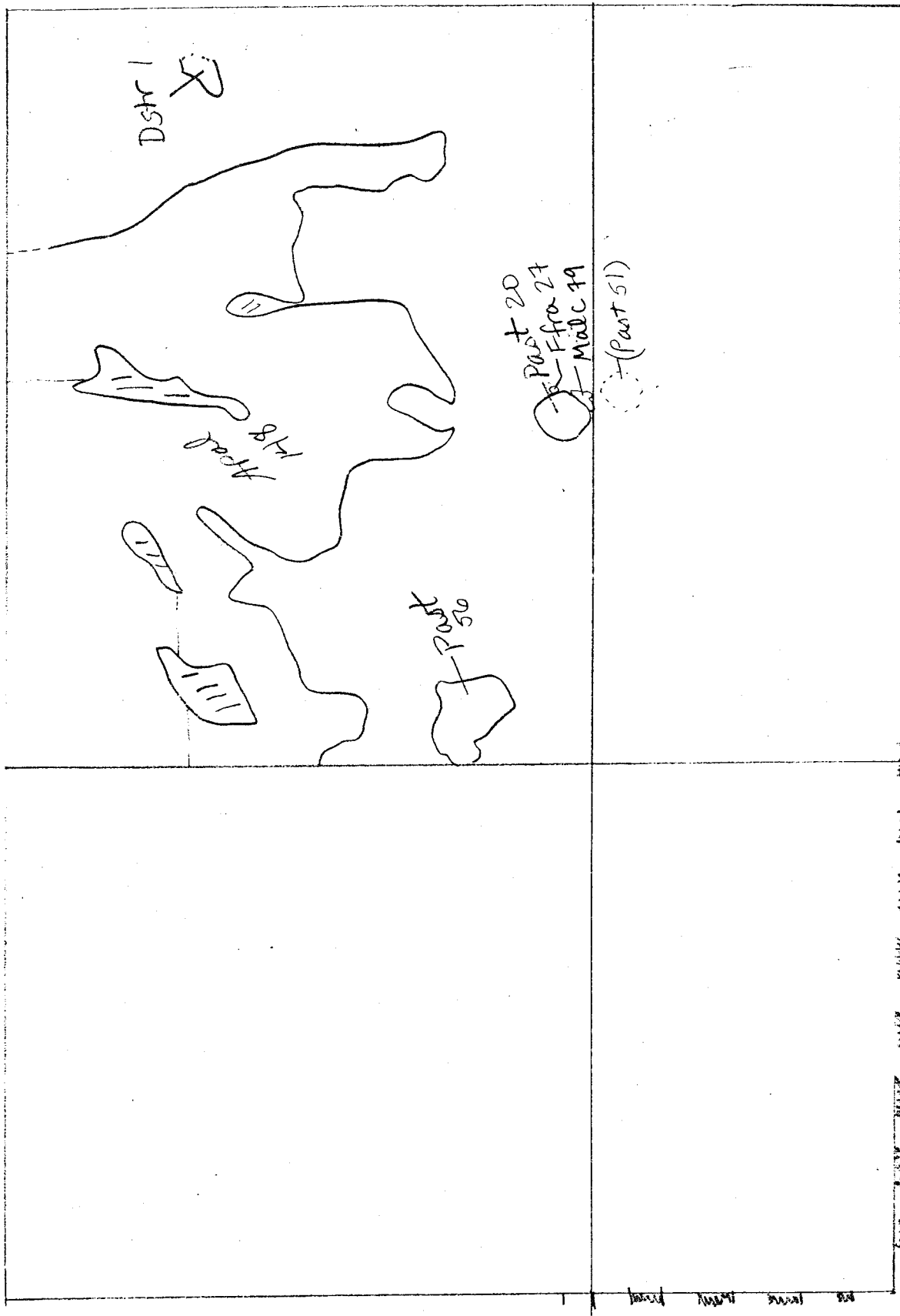
Dig. Note: Apal 27 has 3 segments
 Apal 38 has 4 segments



Gordon Blew!

BP01-19-1995 (1 Dec. 1994)

Final Check
 12/2/95

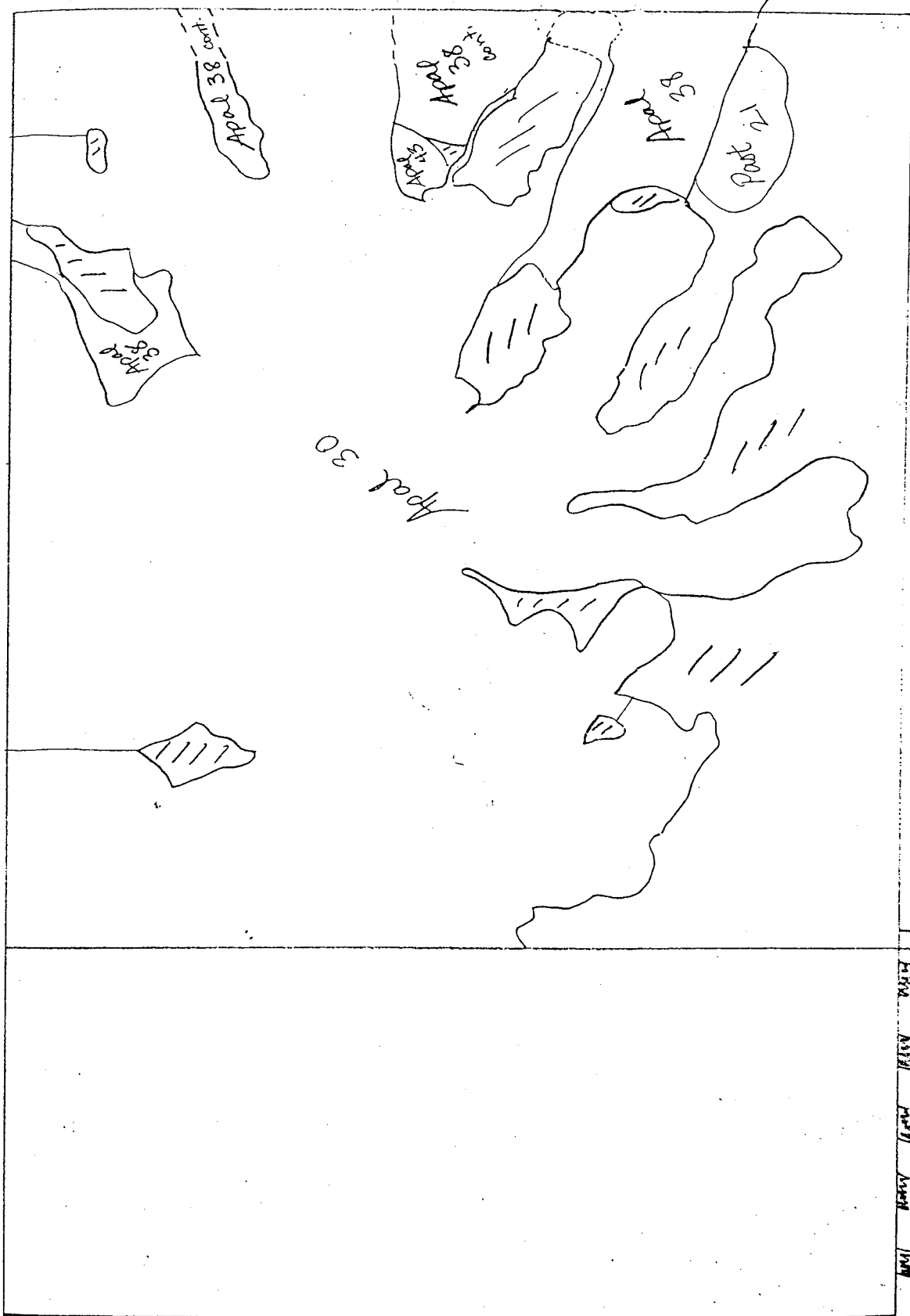


Apal 14/8 TR
 Ffra 28 MIA
 Male 100 MIA
 M 1, 19 MIA

BP01-21-1995 (1 Dec. 1994)

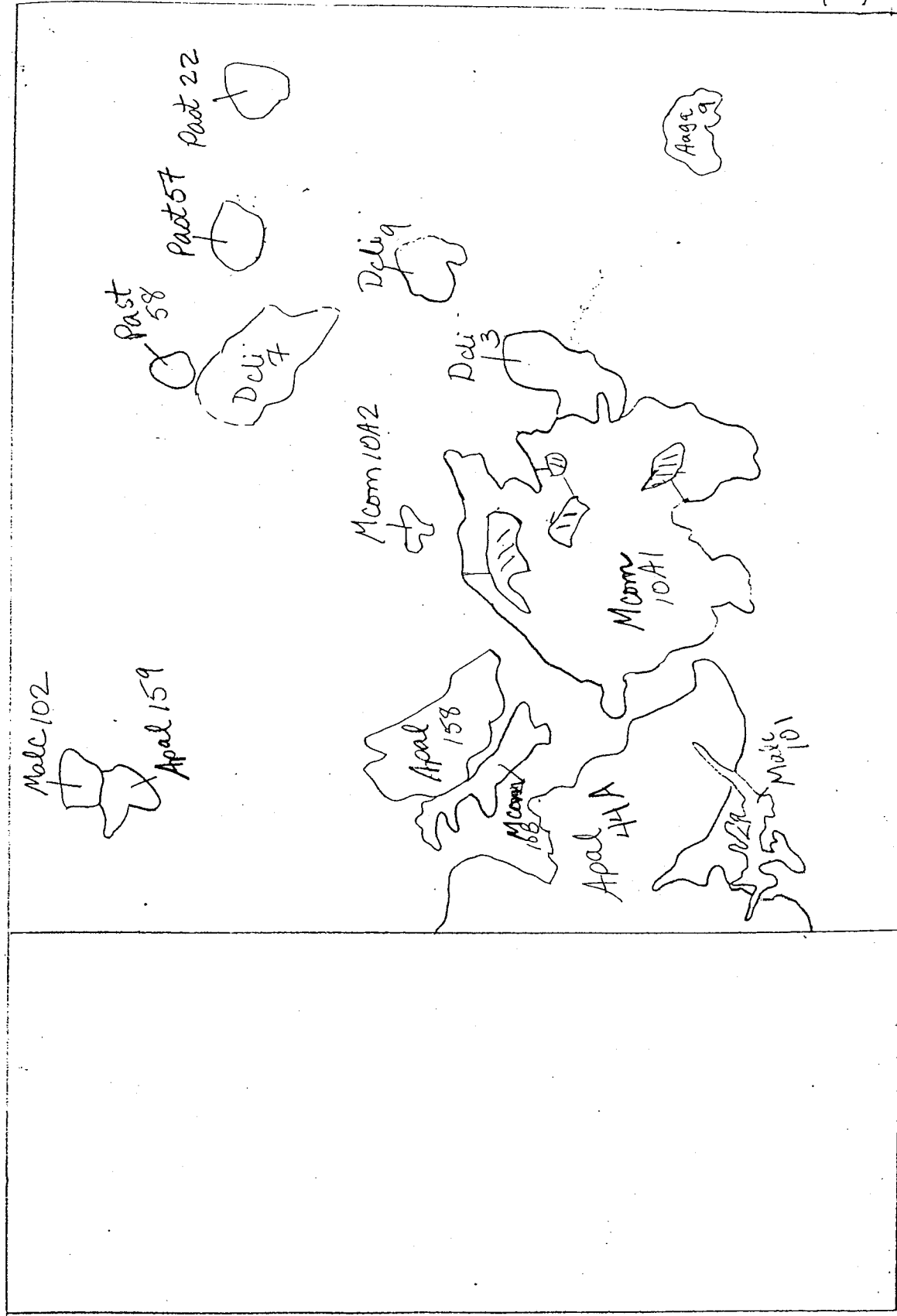
Final Check 05/23/95
 JWP, DM

AT

$$L : \sqrt{D}$$


BP01-22-1995 (15x2.1994)

final check
05/23/95
JWP, OM

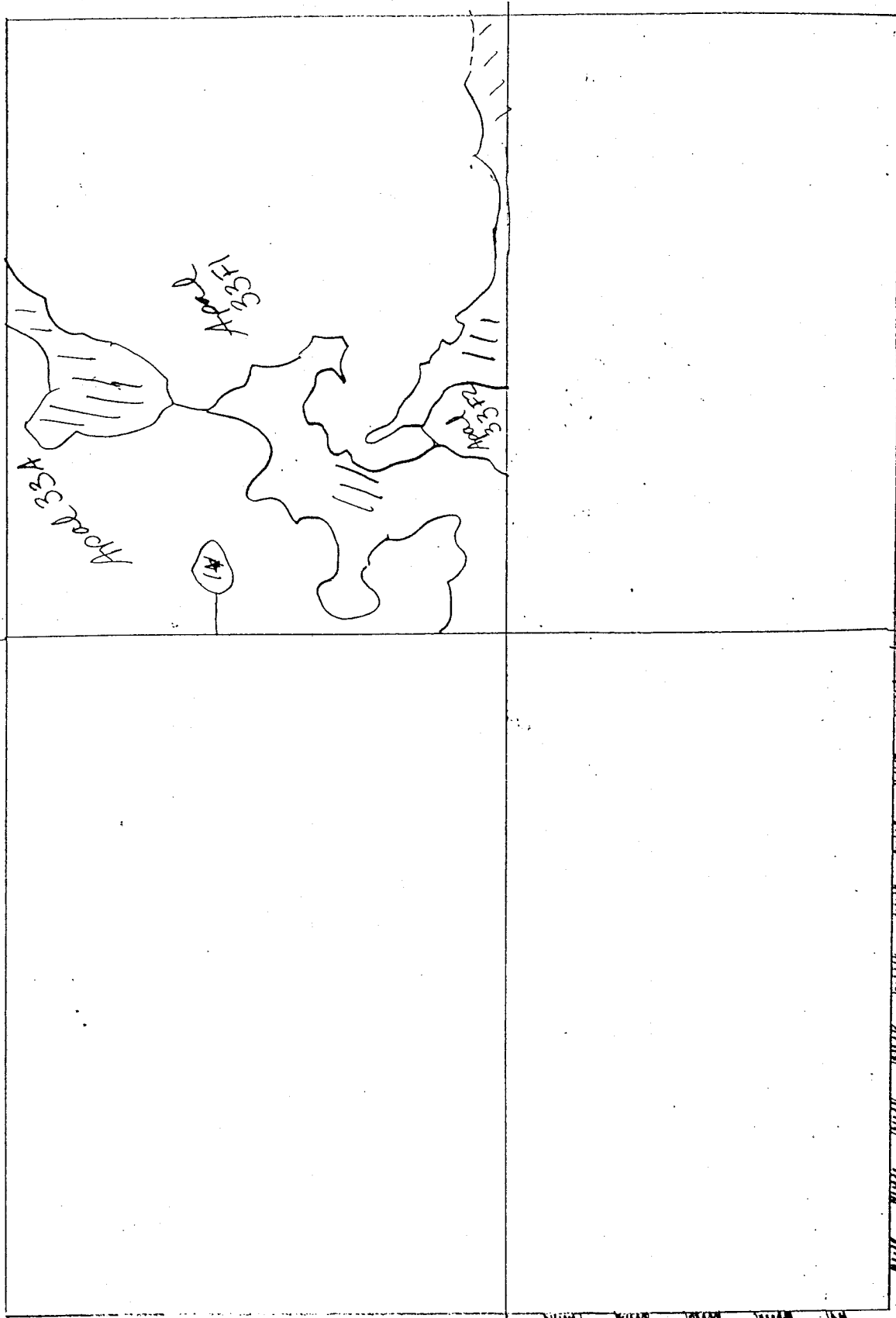


Pass 23 DE

Final check
05/23/95
TWP, OM

BD01-24-1995 (1 Dec. 1994)

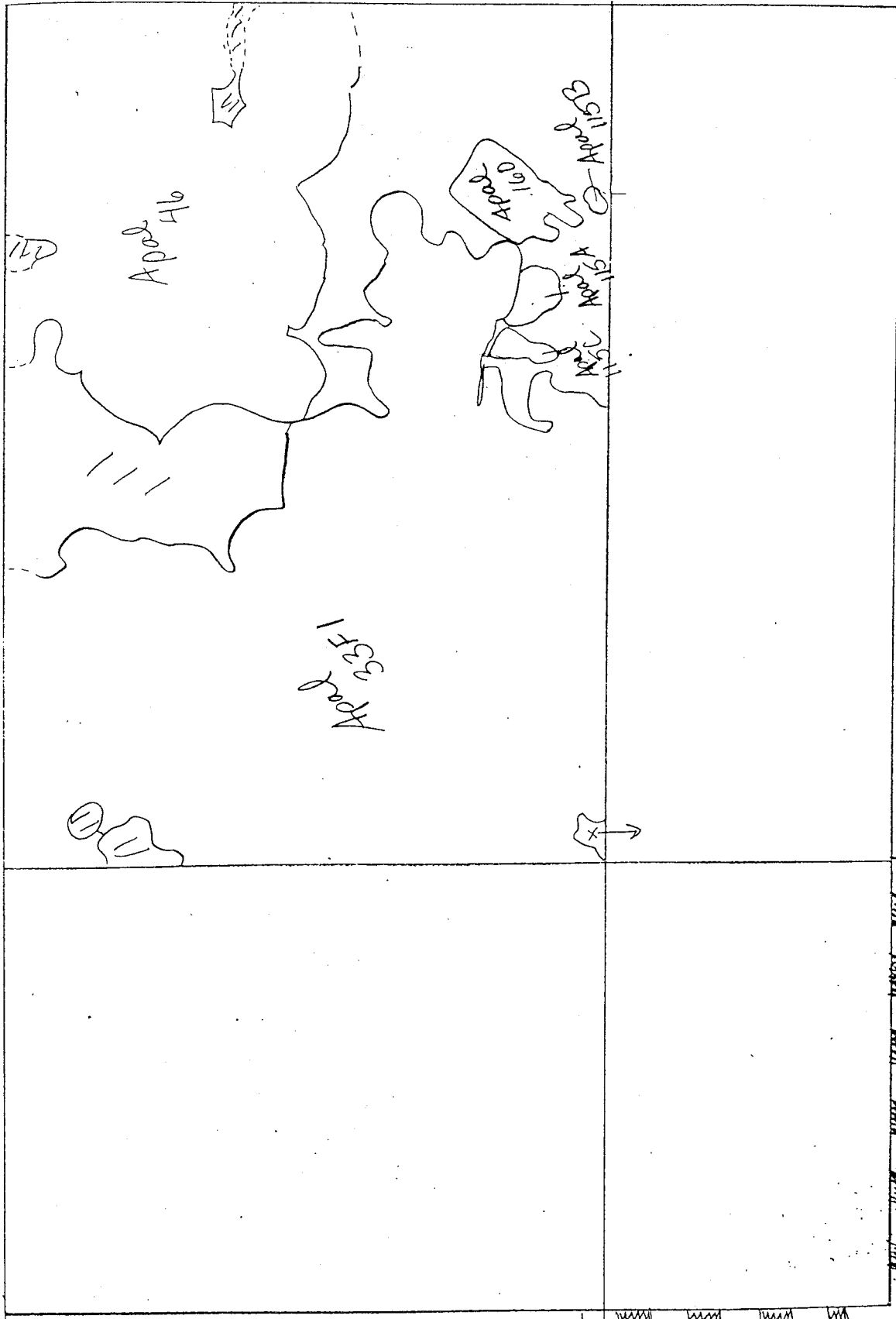
Del 9 UAF Pass 23 DEAD
April 158 TR Male 102 RE
Mcom 10C AWA
Mcom 10A FI



† Gordon blew!
April 33C DEAD

BP01-25-1995 (1 Dec 1994)

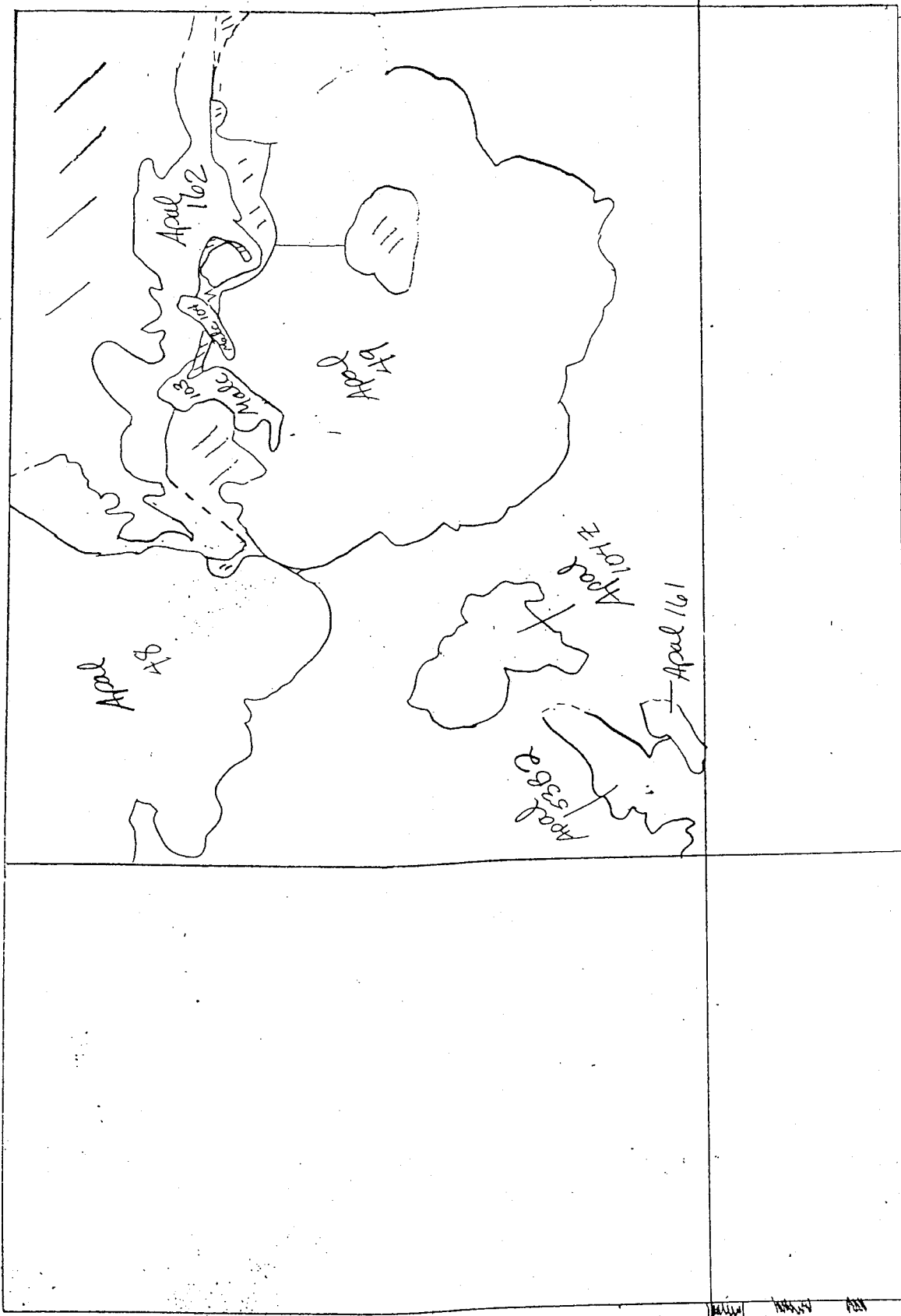
Fingel Clack
JWP:DM 05/21/95



Apal 160 TR

8901-26-1995 (1 Dec. 1994)

Final Check
as shown

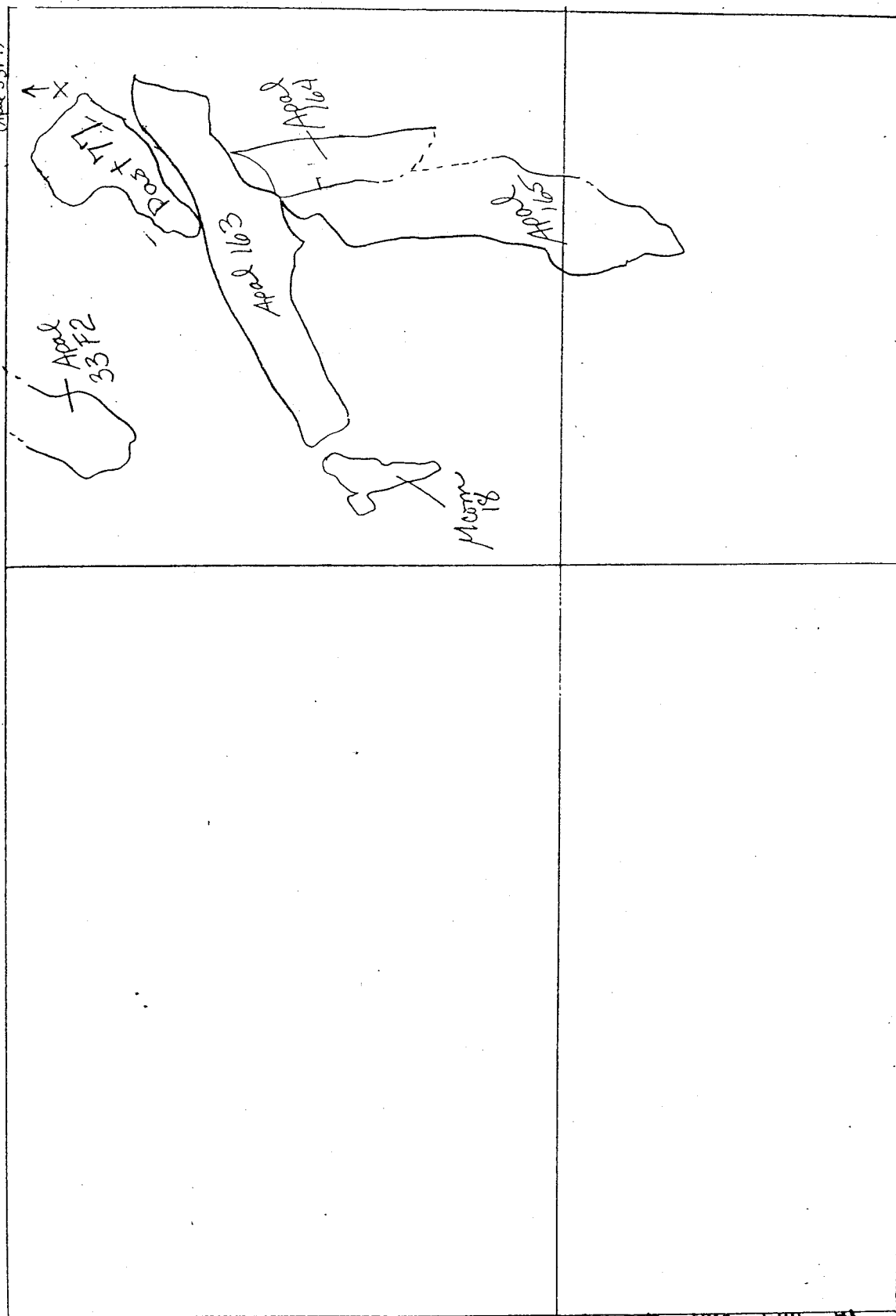


Apul 101 TR
 Apul 102 TR
 Malc 103 TR
 Malc 104 TR
 Malc 48 MIA
 Post 54 MIA
 Malc 81 AW

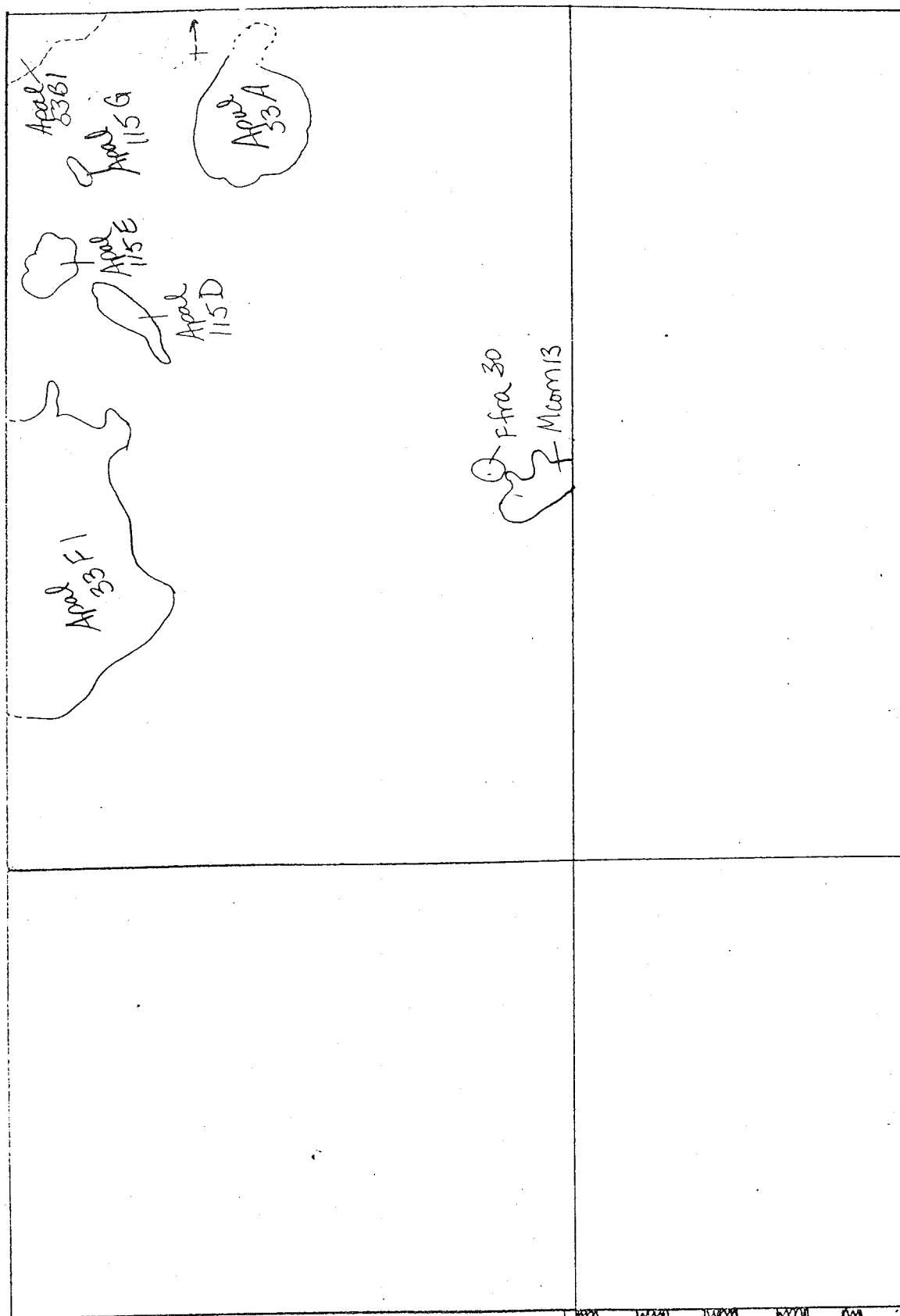
BP01-27-1995 (1 Dec. 1994)

Final Check
 JWP, OM
 05/27/95

(Apal 33 FI)



Final check
JWP, OM 05/24/95
BP01-28-1995 (1 Dec. 1994)
Mcom 18 TR Ncom 17 MIA
Apal 163 TR Hra 29 MIA
Apal 164 TR 11.5 MTA
Apal 165 TR 11.5 MTA

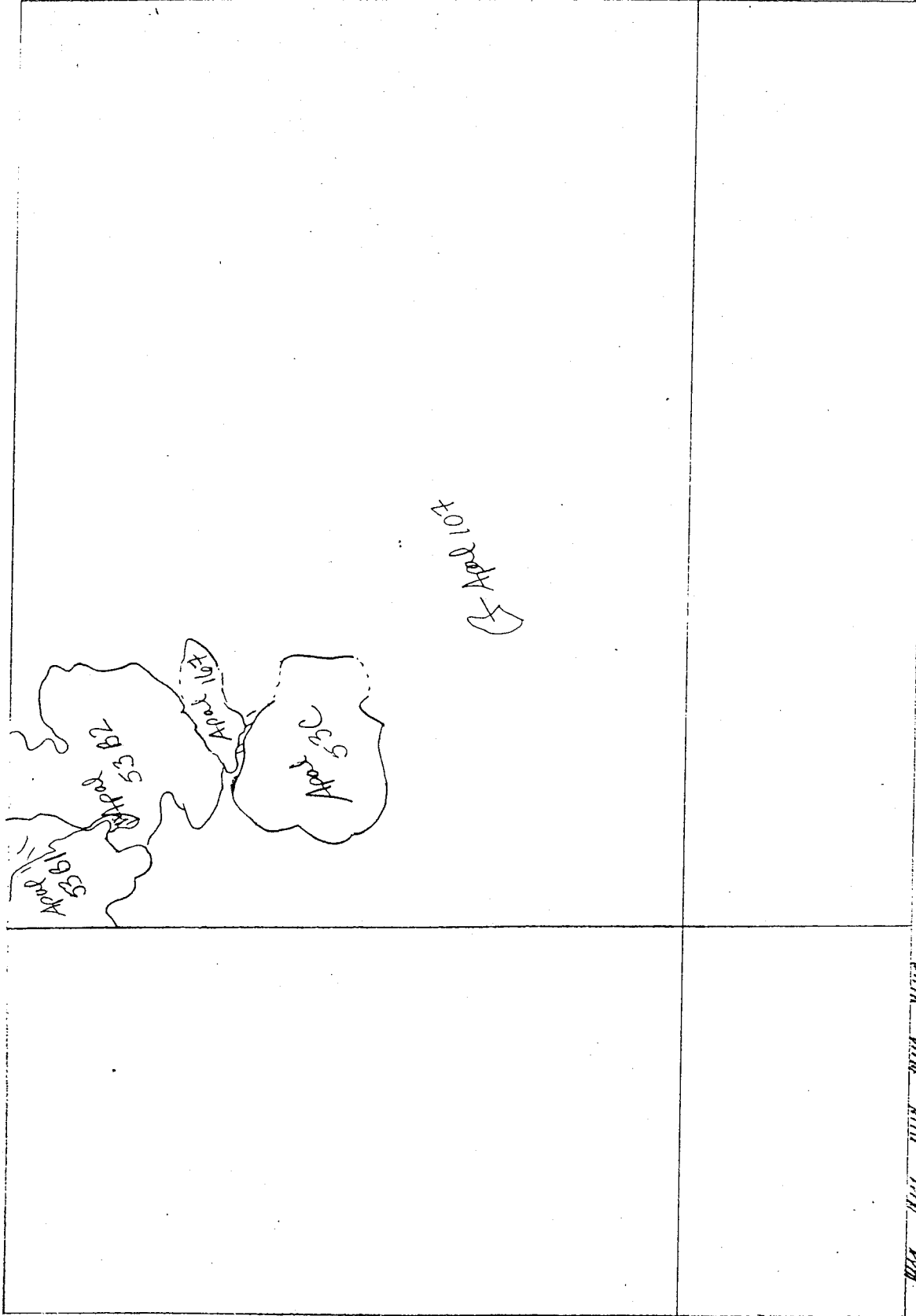


Ffra H. MIA
 Mcom 1 FDE
 Ffra 31 DE
 Apul 5/13 DE
 D. at 75

Apul 115 F DEAD
 Apul 96 A DE
 Apul 96 B DE
 Ffra 13 DE

BP01-29-1995 (1 Dec. 1994)

Final Check
 JWP,OM 05/24/95

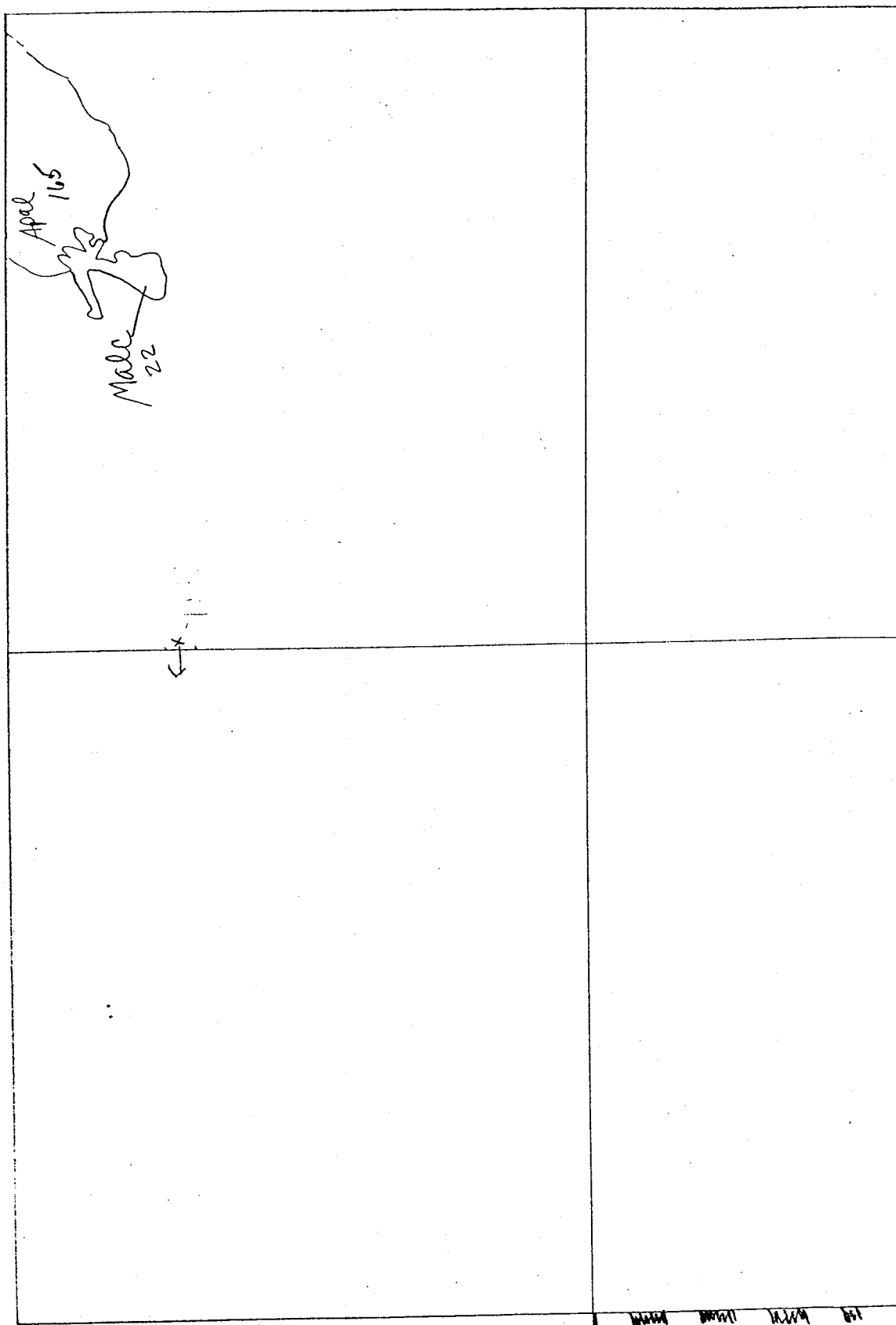


3532 Apal

Apal 167 TR
Apal 55 DEAD
Apal 96 MIA
Apal 97 MIA
Apal 107 UA

BP01-30-1995 (1 Dec. 1991)

Final Check
JWP, OM 05/24/95

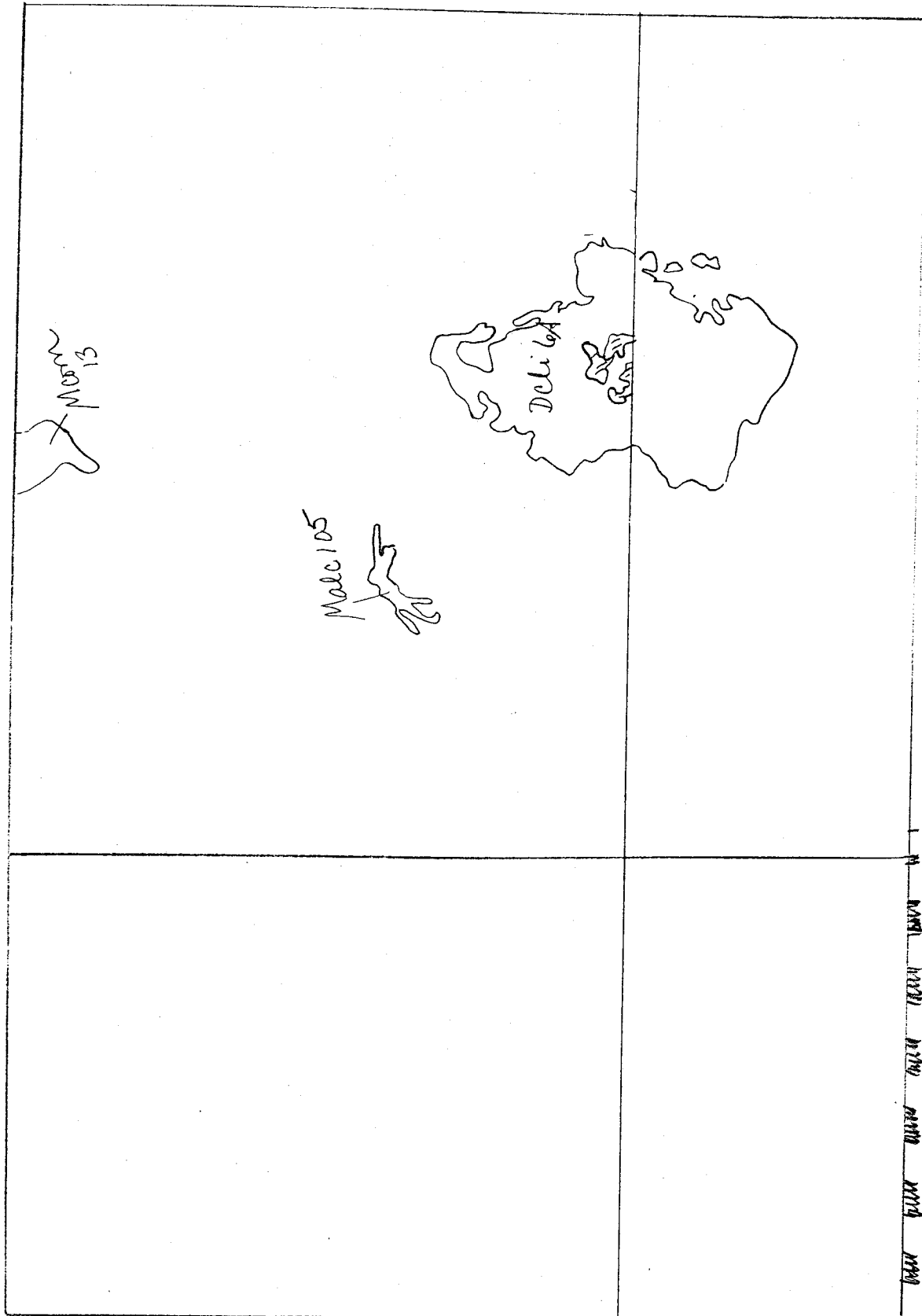


April 165 TR
Post 78 DE

BP01-31-1995 (1 Dec. 1991)

Bill 1007 line 1000 and 1001 and 1002 and 1003

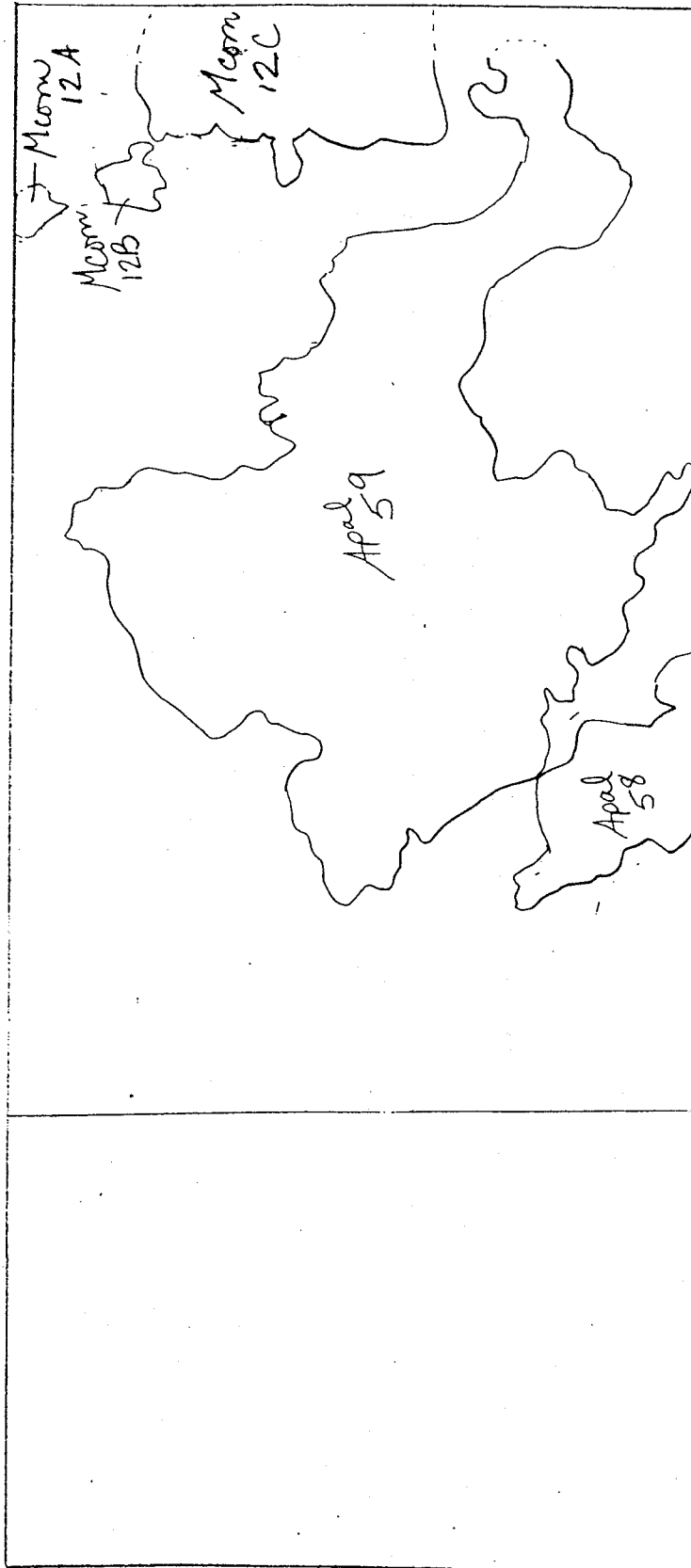
Final check
JND AM 05/05/95



Del 6 FI
APal 169 AWOL

BP01-32-1995 (1 Dec. 1994)

Final Check
JEPF, UM 05/24/95

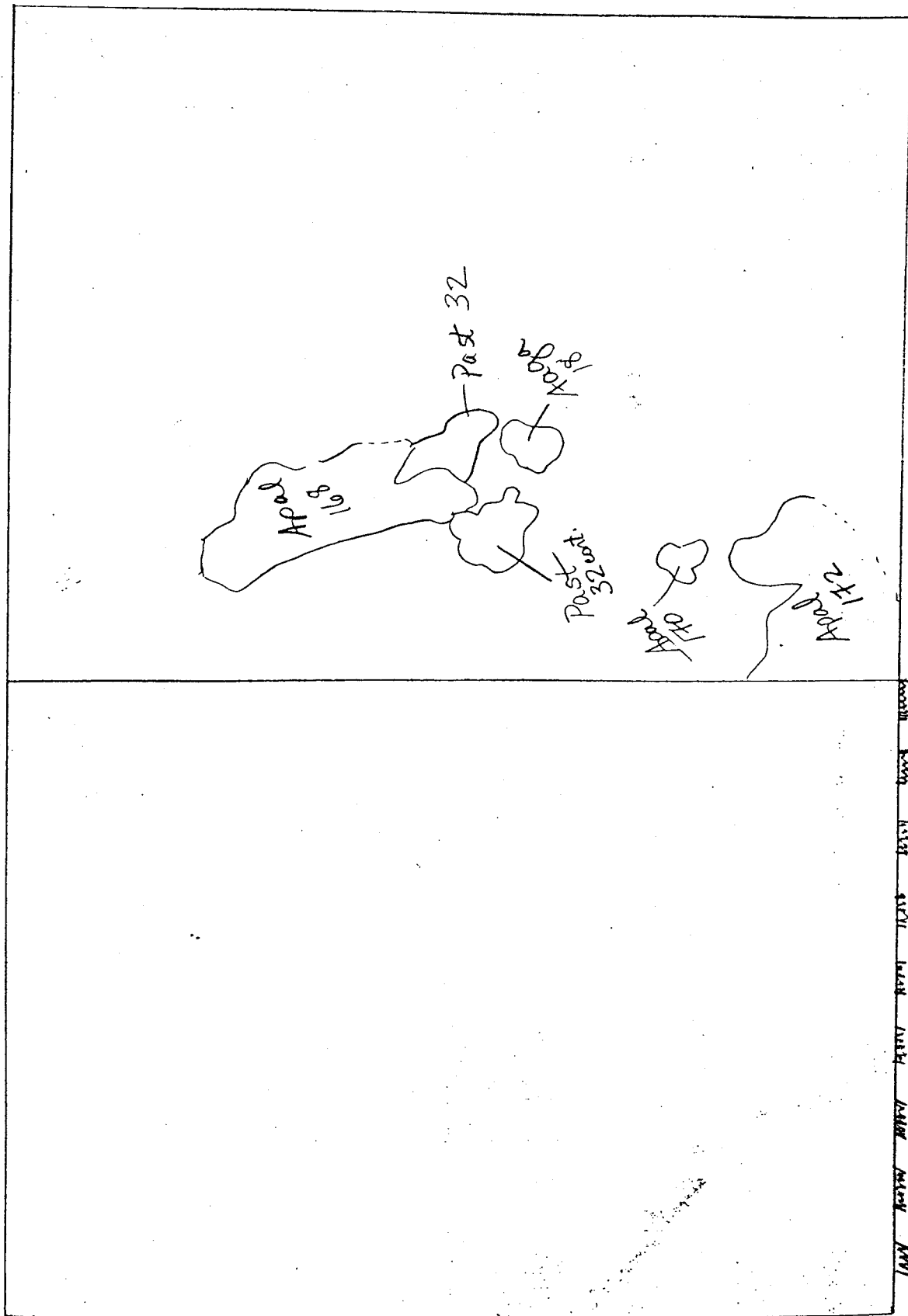


Apal 61A Apool Male 858000L

BP01-33-1995 (1 Dec. 1994)

Final Check

JWP, OM 05/24/95



BPOI-34-1995 (1 DEC. 1994)

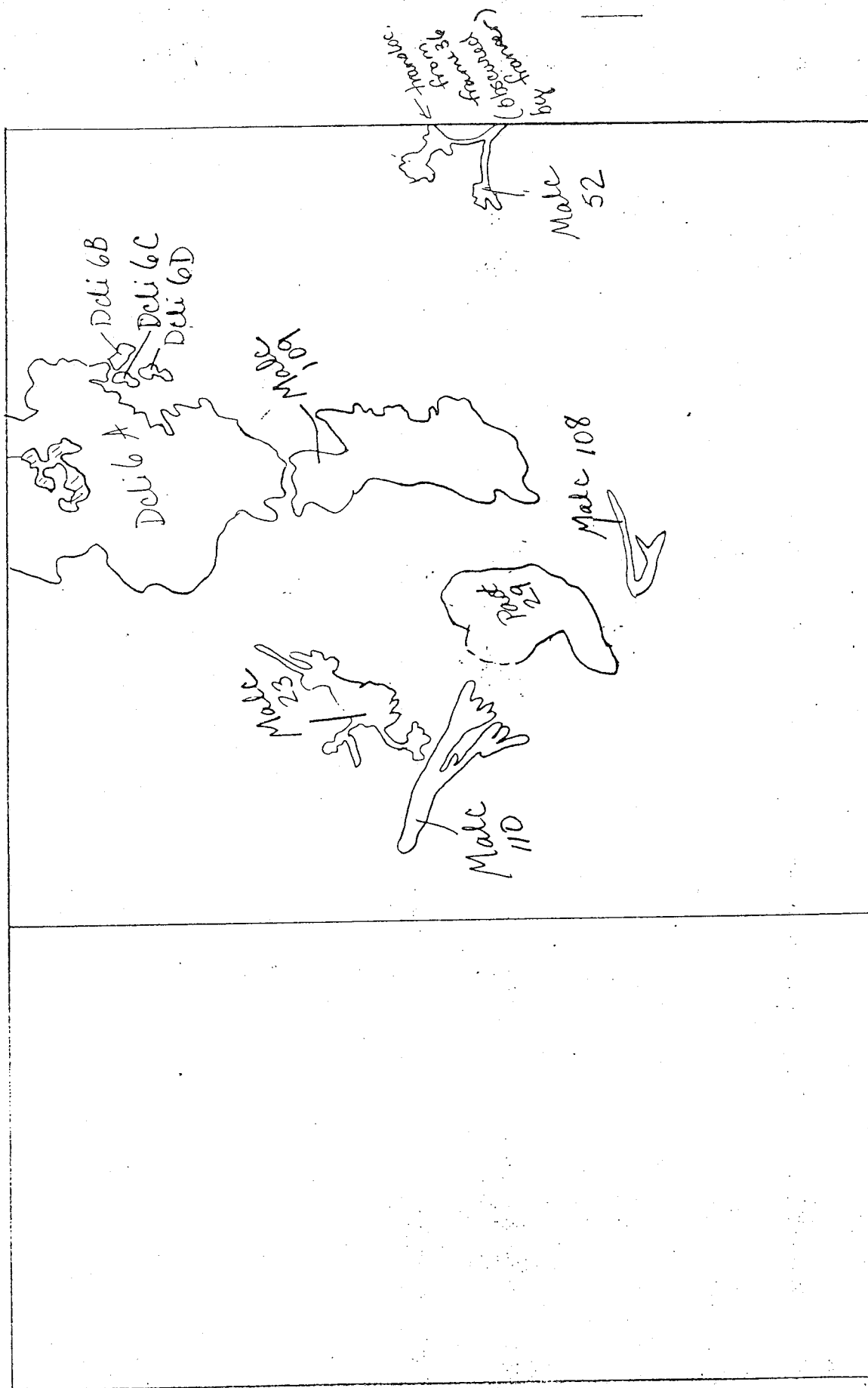
Taga 18 RE (clear example)
 Apal 168 TR A pal 60 C AVAL
 Apal 171 AVAL A pal 60 F AVAL
 Male 106 AVAL
 M.D. 51 NE

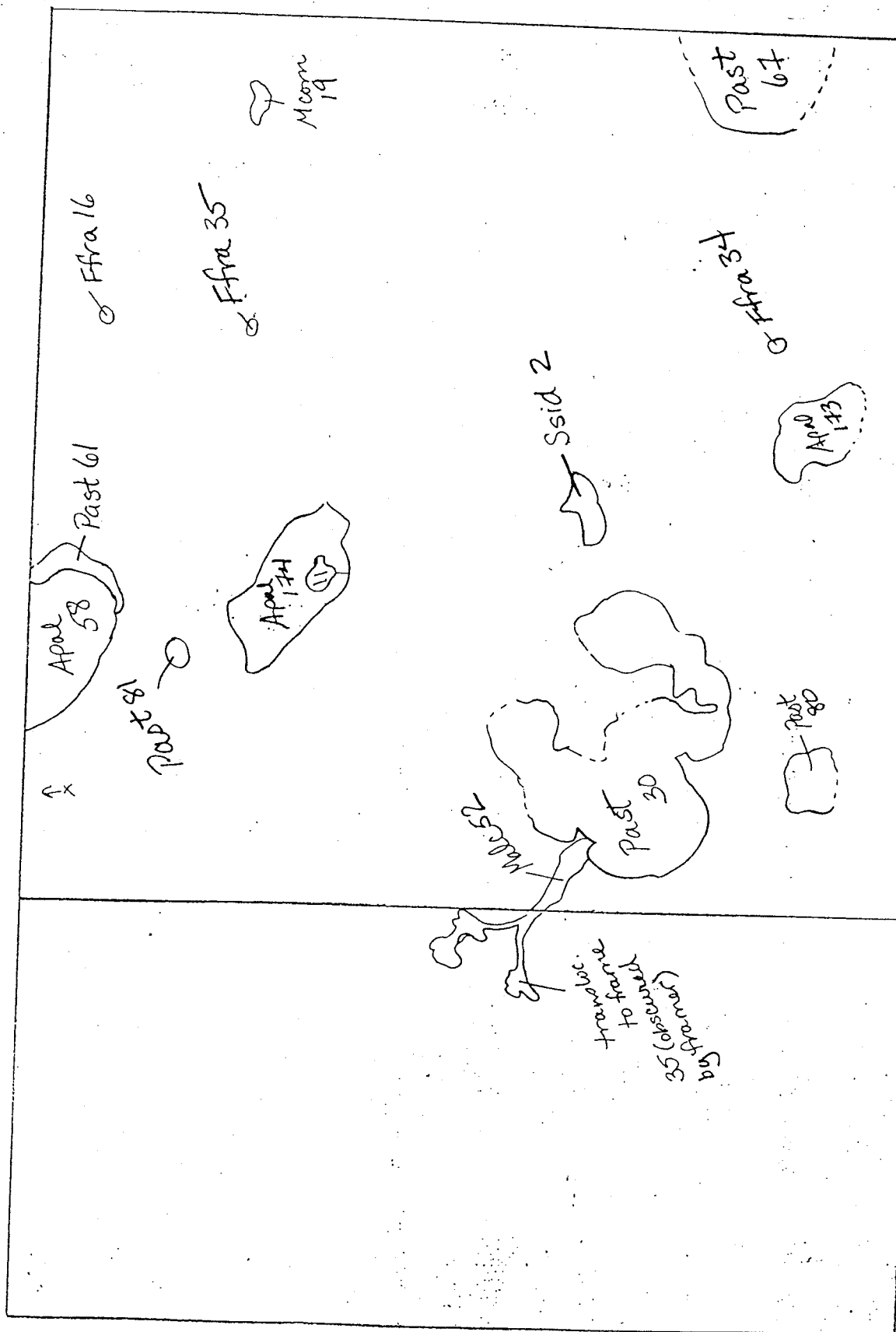
Final Check
 JWP, O.M. 05/24/95

April 1694

Final Check

JWP, OM
05/24/95





Final Date
 TWP on 05/24/95

8901-36-1995 (1 Dec. 1994)

Apal 143 TR
 Apal 174 TR
 Apal 61A AWOL
 Apal 62 DE
 Ffra 32 MIA
 Ffra 35 SR
 Ffra 33 MIA
 Past 79 MIA
 Past 81 RE

Note: New striping pattern on new camera frames in 1994 means that there are differences in "coding" of cut lines between 1992 & 1994 photostation photographic records for BP01 & BP02, but relative position of cut lines remains identical.

38
Male

Male
95

Male
94

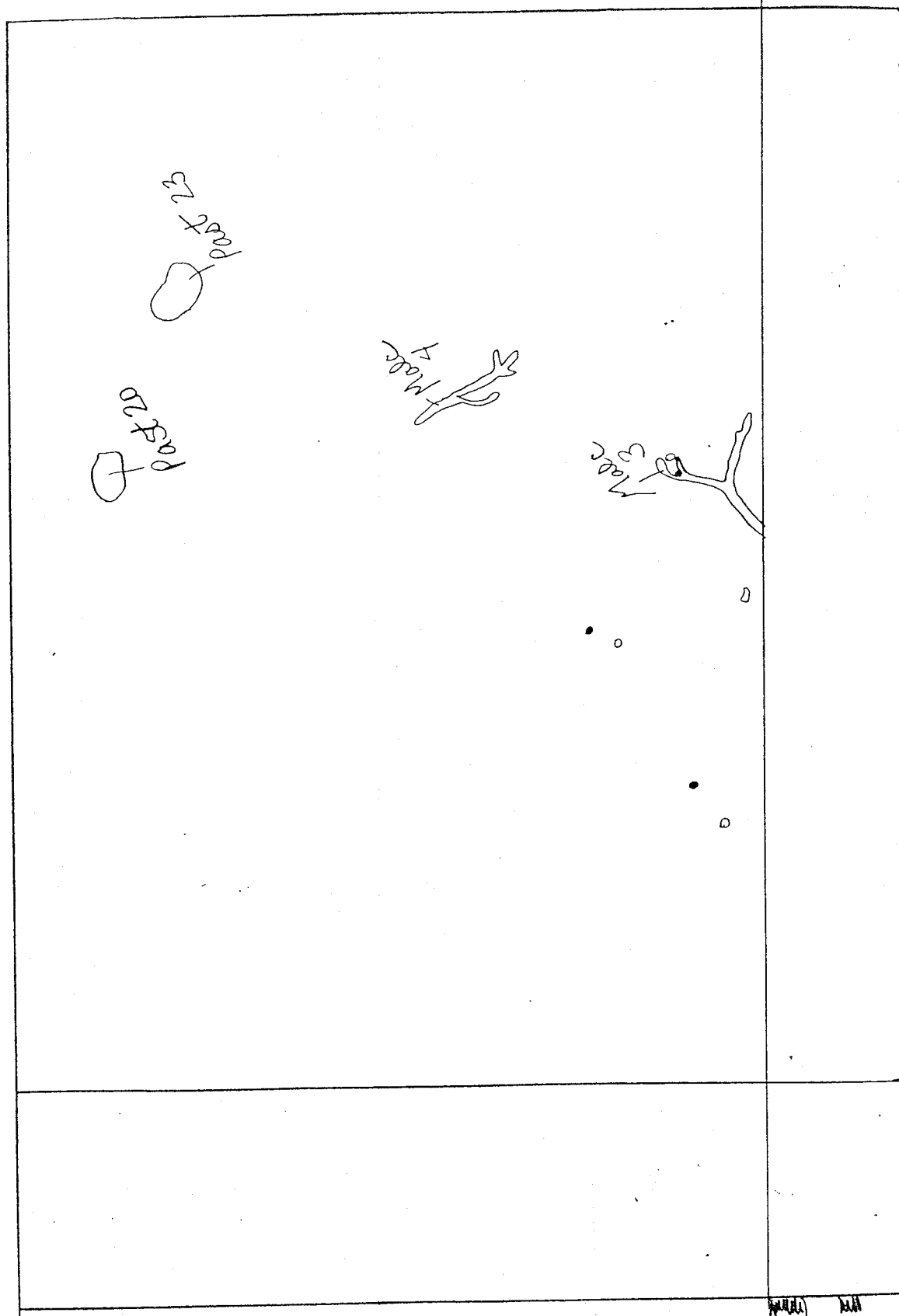
Male
98

Final Check
JMD 05/29/95

BP02-01-1995

(30 Nov. 94)

Male 94 SR
Male 95 SR



Detr 1 DEAO
Part 23 SR

scale pins

BPD2-02-1995 (30 Nov. 1994)

Final Check
SWP+OM 05/29/95

Male 41.

per your card

Final Check
JWP, ON 05/29/95

6P02-03-1995 (30 Nov. 1994)

Part 4A MIA
Part 4B MIA

Male 37

Male 37

Male 37

Final Check
JWP, DM 05/29/95

BP02-04-1995 (30 Nov. 1994)

Male 96 SR
Male 6 ANOL
Male 42 ANOL
Male 69 DEAD
Male 94 SR

COM

Male 98

Male 90 ANOL
Male 3 growth in
Male 98 SR

BP02-05-1995 (30 Nov. 1994)

Final Check
JW P, OM 05/29/95

Aug²
27

49 male

Malc 80 AWOL
Aaga 24 SR

BP02-06-1995 (30 Nov. 1994)

Final check 05/29/96
JWP, OM

66
2004
Jury

made 81

Final Check

JWP, OM. 05/29/95

BP02-07-1995 (30 Nov. 1994)

Male 99 SR
Male 46 AW

Final check
JWP, DM
05/29/93

Final Check

Mr. P. D. M.

05/29/95

BP02-08-1995

(30 Nov. 1994)

Malec 82 AN Part 7 DCAD

Male 100SR

part 6

Malec 101

Malec 13 MIA
Malec 101 SR

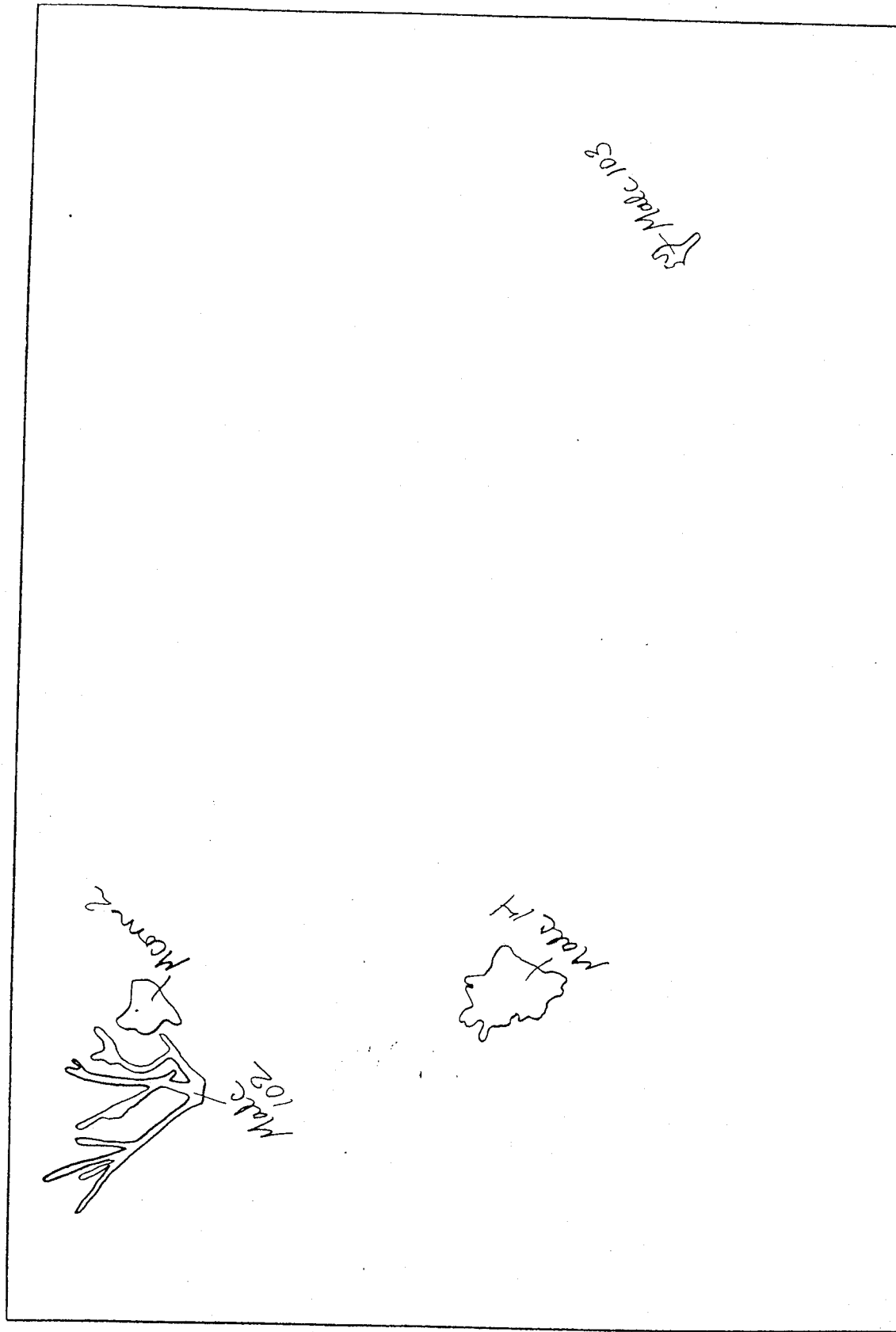
30 Nov. 1994)

BPD2-09-1995

05/29/95

Final Check

FWP, OM



Final Check
PWP, PM 05/29/95

BP02-10-1995

(30 Nov. 1994)

Male 102 SR
Male 48 AW
Male 16 DE
Male 103 SR
Male 103 SR

Final check
FWP, OM 05/29/95

BP02-11-1995 (30 Nov. 1994)

Mean 11 DEAD
Male 10-1 SR
Male 105 SR

Male 52

Male 52

Male 104
Male 105

curly
Male
84

001106
X

BP02-12-1995 (30 Nov. 1994) Male 106SR

Final Check

FWP, NM 05/29/55

Malc 108

Malc 828

the part with that

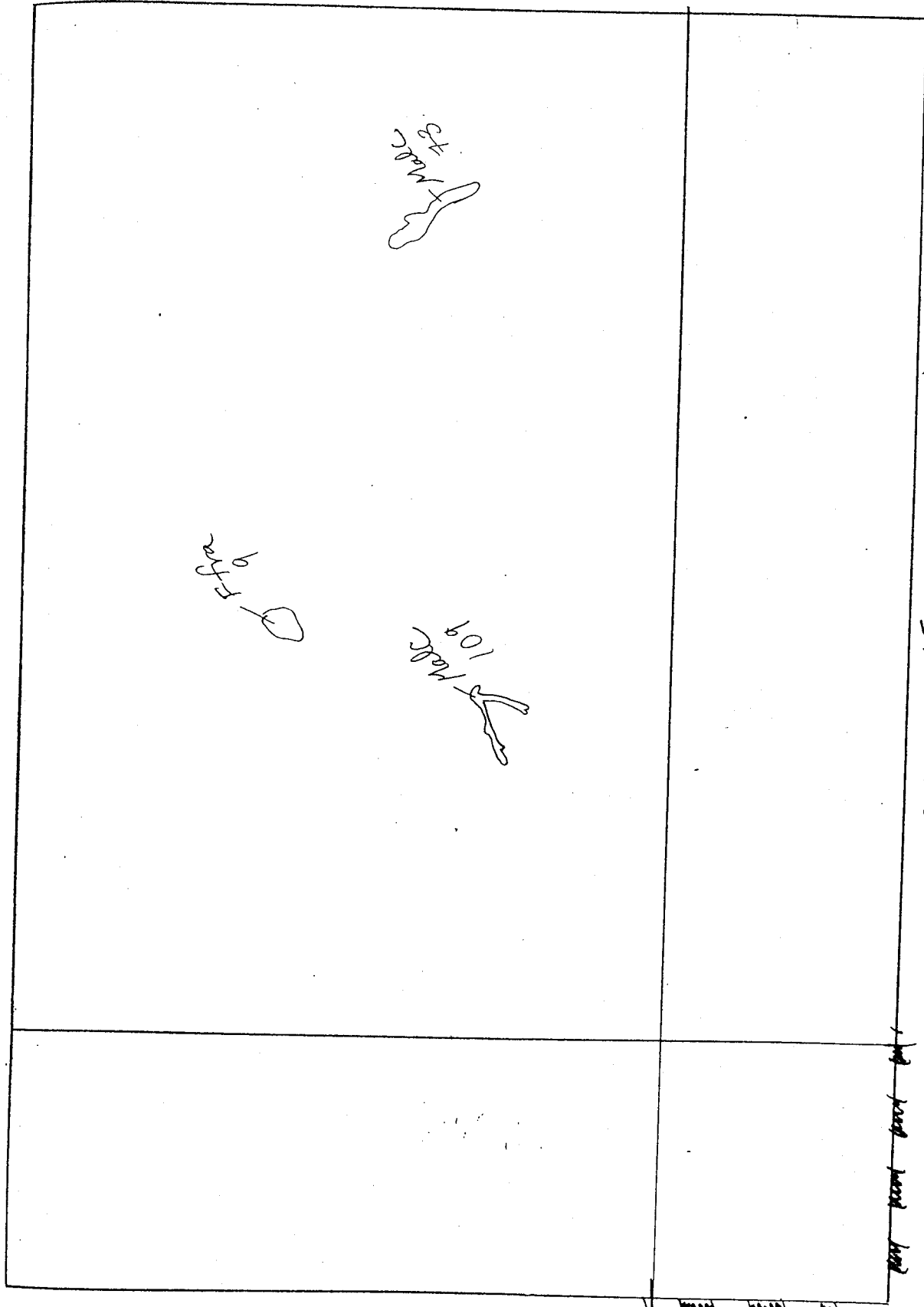
Final Check

JWP,OM 05/29/95

BP02-14-1995

(30 Nov. 1994)

Malc 108 SR



BP02-15-1995 (30 Nov. 1994) Malec 109 SR
Ffra 9 SR

Final Check

JWP, OM 05/29/95

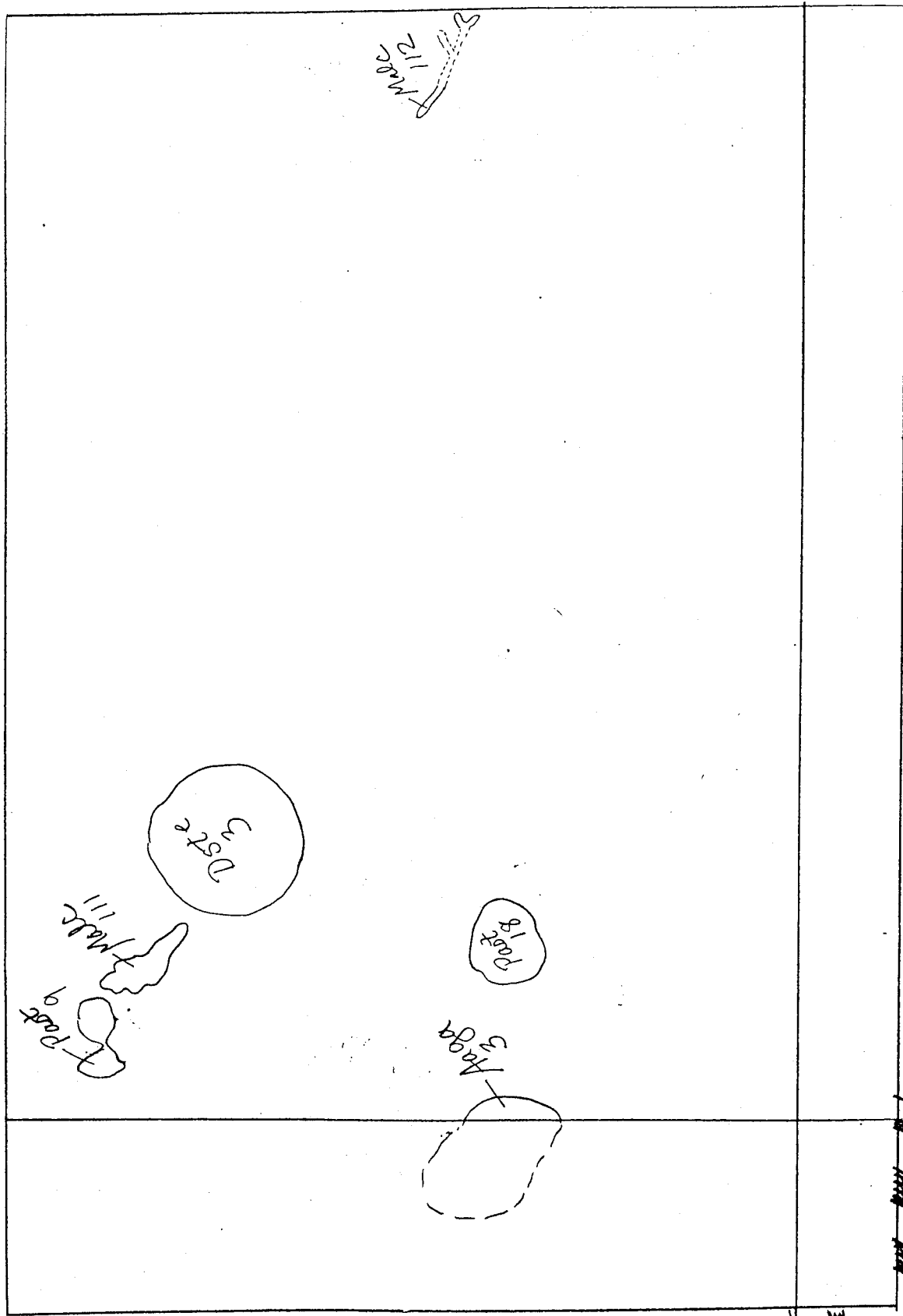
Male
110

Agas 3

(12) from hand

BP02-16-1995 (30 Nov. 1994) *Male 110 SR*

Final Check
JWP:NM 05/29/95



Male 11 SR Male 112 SR
MCAN 10 DEAD

(30 Nov. 1994)

BP02-17-1995

Final Check

and other

5-90010A

BP02-18-1995 (30 Nov. 1994) Mean 6 DEAD

Final Check

05/29/95

Feb, OM

♂ Malec 113

♂ Malec 114



BP02-19-1995 (30 Nov. 1994) Malec 113 SR Malec 114 SR

Final Check
11/05/95

malc
11/6

Agua 22 DEAD
Ftira 5 DEAD

(30 Nov. 1994)

BPO2-20-1995

Final Check

Walc 220

117

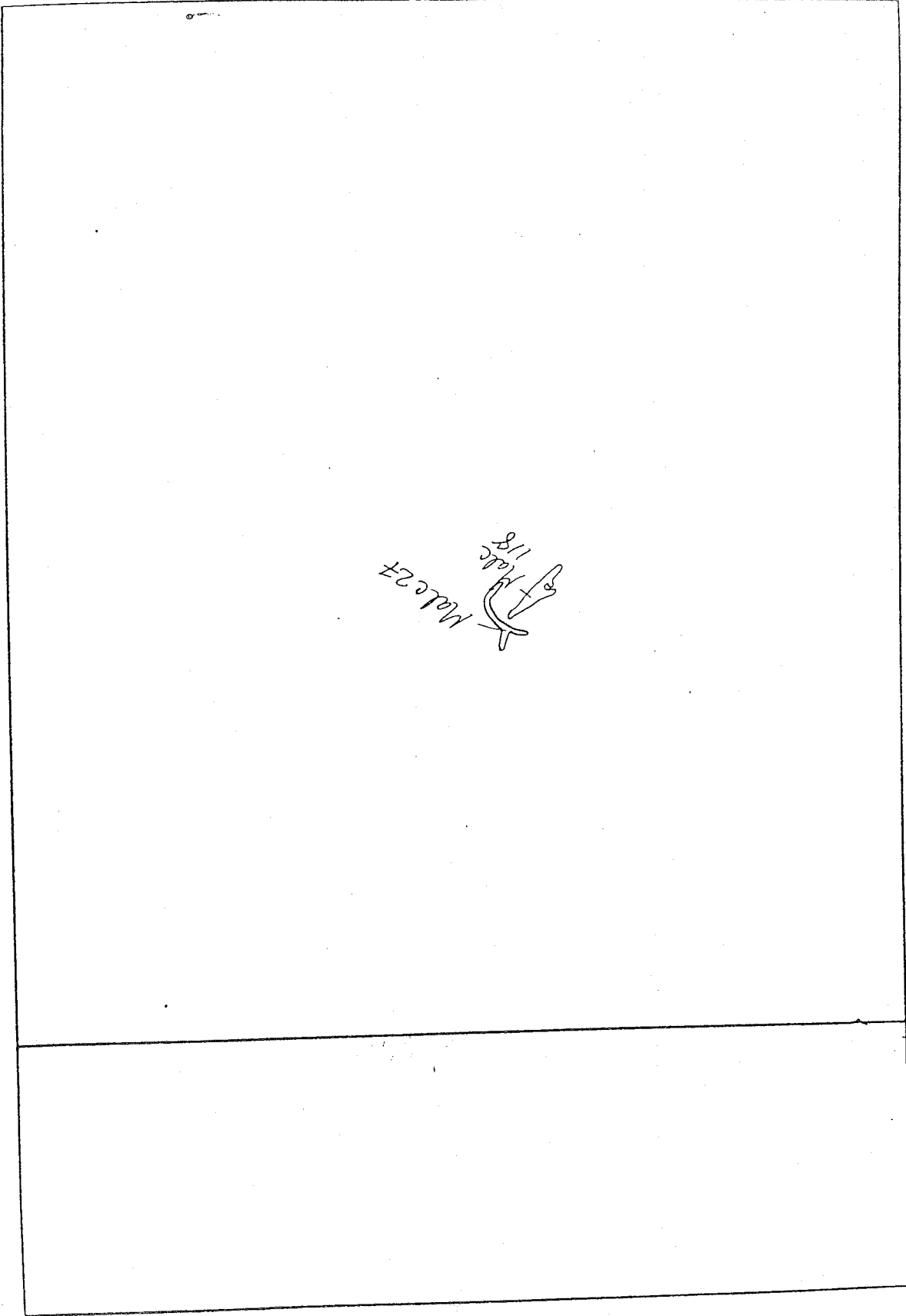
BP02-21-1995

(30 Nov. 1992)

Fra 4 DEAD
Male 17 SR
Fra 6 DEAD

Final Check

FWP 05/29/95



Malec 27
Malec 1/8

Malec 1/8TR

(30 Nov. 1994)

BP02-22-1995

Final Check
JEP, ON 05/29/95

Male 119

Male 120

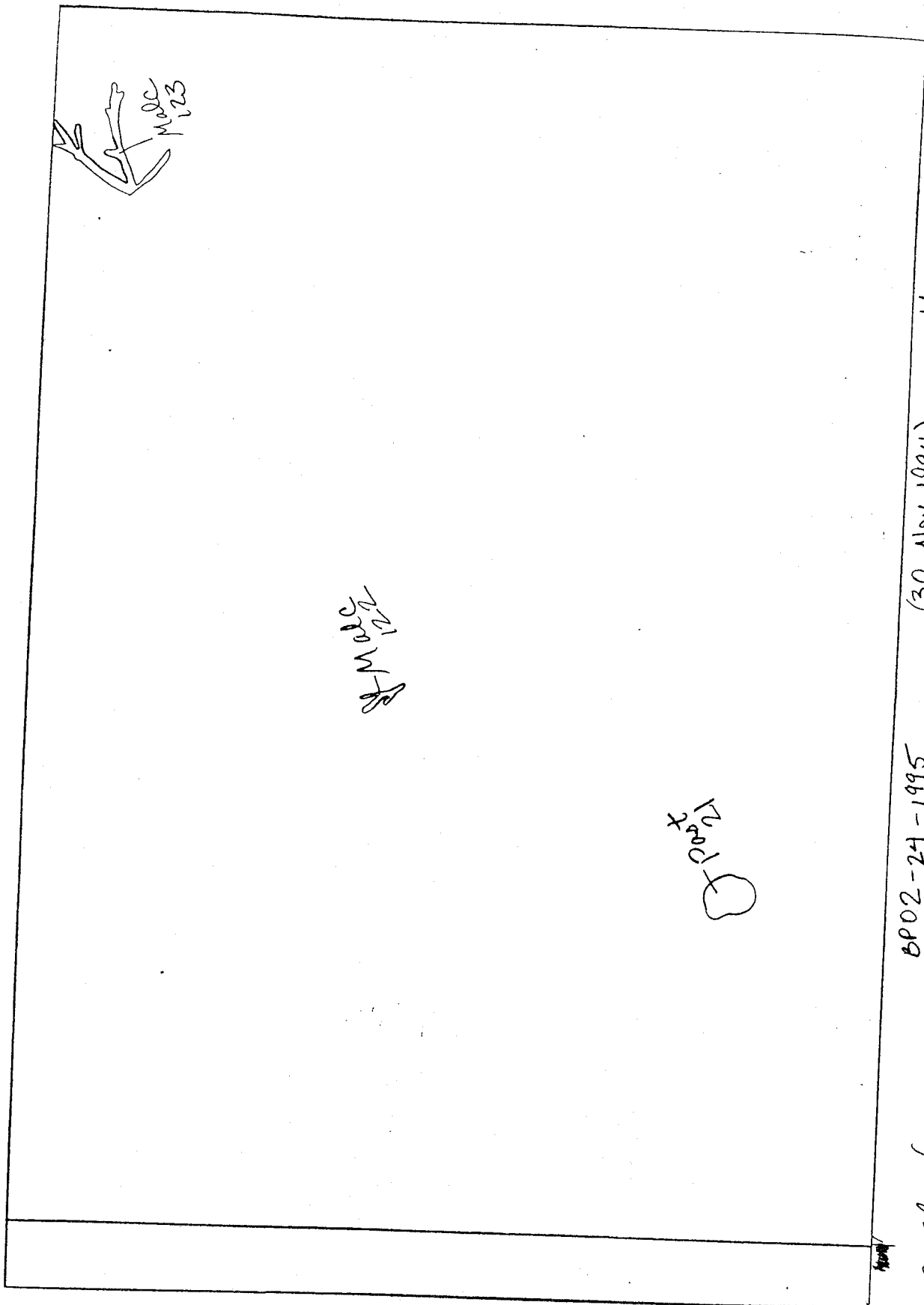
Male 121

BP02-23-1995

(30 Nov. 1994)

Agga 19 MIA
Agga 20 MIA
Male 119 TR
Male 120 SR
Male 121 SR

Final Check
FWP 05/09/95



MOC 122 SR
MOC 123 SR
MOC 284 AWA

(30 Nov. 1994)

BP02-24-1995

Final check
JewTOM 05/29/95

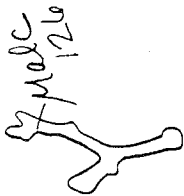
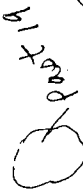
Final Check
JWP, OM 05/29/95

12/5/94

Agglo

11/20/94
 130 Nov. 1994
 BPC2-26-1995
 21DE
 125 SR
 71. SP

11/20/94
 130 Nov. 1994
 BPC2-26-1995
 21DE
 125 SR
 71. SP

	   
--	--

Final Check

JWP,OM 05/29/95

BP02-27-1995

(30 Nov. 1994)

Malc 31 AWA
 Malc 127 SR
 Aaga 25 SR
 Malc 126 SR
 Aaga 5 DE

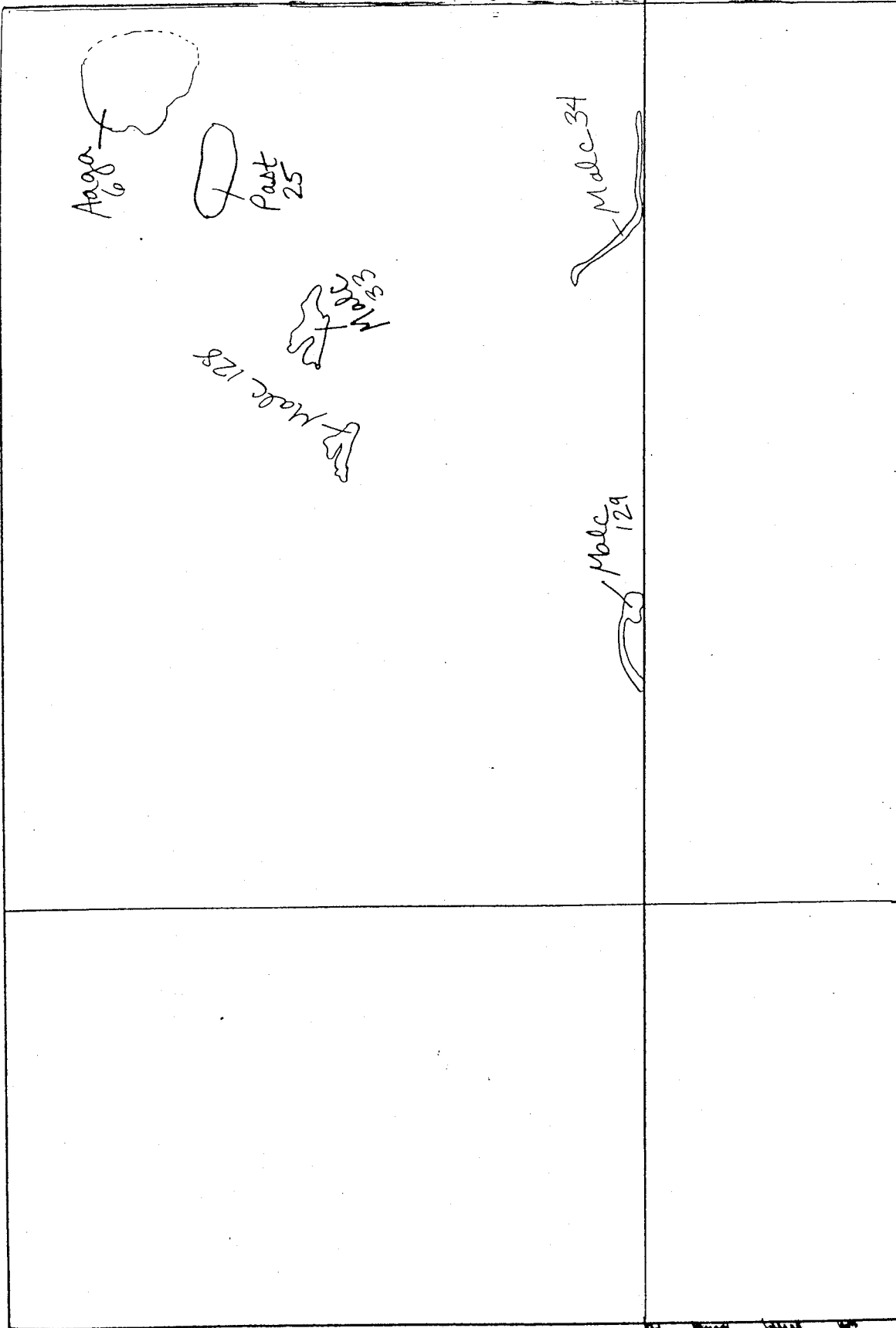
Q
past
24

Malc 32 AW
Past 24 SR

(30 Nov. 1994)

BP02-28-1995

Final Check
FWP, OM 05/09/95



BP02-29-1995

(30 Nov. 1994)

Past 25 SR Ffra 7 MIA
Malc 128 SR Ffra 8 MIA
Malc 129 SR

Final check

JWP,OM 05/29/95

--	--



 No. 88
 No. 88


 No. 88

Agga 8 FI

(30 Nov. 1994)

BP02-30-1995

Final Check

JWP, OM 05/29/95

Male 64

100 100 100 100 100 100 100 100 100 100

MCav 7 DEAD

(30 Nov. 1994)

BR02-31-1995

Final Check.

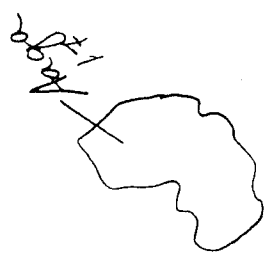
JWP, OM 05/29/95

Mcav 7 DEAD
Mcav 9 MIA

(30 Nov. 1994)

BP02-32-1995

Final Check
Jew P, OH 05/29/95



ENCLOSURE

	♂ Grad 1 Male 93 Male 131 Male 130 Male 132

Male 130 SR
Male 131 SR
Male 132 SR

(30 Nov. 1994)

B02-33-1995

Final Check

JWP, OM 05/29/93

Page 27

Male 133

Final Check

JWP, DM

05/29/95

6902-34-1995

(30 Nov 1994)

Male 133 TR

Male 88 Mtd.

Page 27 SR

(-) Page 21

==> Male 89

Male
134

1991 1992 1993 1994 1995

6002-35-1995

(30 Nov. 1994)

Male 134 SR

Final Check
JWP NM 05/29/95

Female
136

Dec 2 DEAP
Mar 135 SR
Apr 136 SR

(30 Nov. 1994)

6802-36-1995

100

Final Check

60P, ON 05/29/95

DUPLICATE:
Original In
Museum Archives
EDC 118