

CANADA LANDS SURVEYS RECORDS
F.B. 3 3 9 5 0
DATE 19 FEB. 1997

L.N.^o of Survey of Garden Hill First Nation
Treaty Land Entitlement
Benson Bay - E., Central & W. Sites, Manitoba

Surveyed by: D. F. Shick
February 28/96

CANADA LANDS SURVEYS RECORDS
F.B. 3 3 9 5 0

W.A. BEATTIE & ASSOCIATES
MANITOBA LAND SURVEYORS

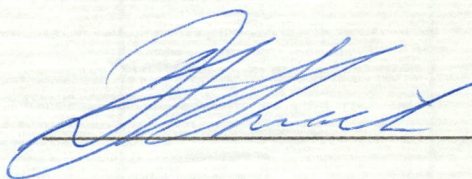
W. Aubrey Beattie, M.L.S.
Donald F. Shiach, M.L.S.
Casmir D. Manitowich, M.L.S.
Douglas N. Pratt, M.L.S., C.L.S.

File 135/95
Field Book 33950 CLR
Work Order No. _____

Thirty-seven Edmonton Street, Winnipeg, Manitoba R3C 1P8, Telephone 943-0546
Fax 947-2918

FIELD NOTES

I, Donald Frederick Shiach, of the City of Winnipeg of the Province of Manitoba, Manitoba Land Surveyor make oath and say that I have in my own proper person, according to law and the instructions of the Surveyor General of Canada Lands, faithfully and correctly executed the survey shown by these field notes and that the said field notes are correct and true to the best of my knowledge and belief. SO HELP ME GOD.



Sworn before me at Winnnipeg
this 28th day
of February 1996


Manitoba Land Surveyor

FIELD NOTES

I, Donald Frederick Smith, of the City of Winnipeg,
the Province of Manitoba, Manitoba Land Surveyor make
oath and say that I have in my own right
according to law and the regulations of the Surveyor
General of Canada made, personally and correctly
executed the survey shown by these field notes and that
the said field notes are correct and true to the best of
my knowledge and belief. SO HELP ME GOD.

Sworn before me of Winnipeg
this 18th day
of February 1933

Manitoba Land Surveyor

F.B. 33950
C.L.S.R.

Field Notes of Survey
Garden Hill First Nation
Treaty Land Entitlement

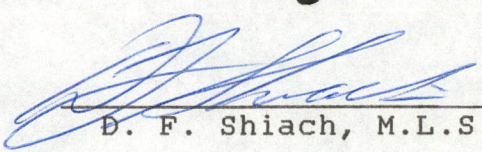
Geomatics Canada
Job No. 135/95

Benson Bay- East, Central, and West Sites

Survey dates- January 14, 1996 to February 17, 1996

Field Crew- D. F. Shiach, D.N. Pratt, W. Howell.

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Traverse points shown	△
Iron Tubes with brass caps	●


D. F. Shiach, M.L.S.

75,000
11.5.51

Field Notes
British Indian Isles
Tropical Land Settlement

Geological Column
Job No. 11575

Survey Station January 1st, 1936 to February 17, 1936
Field Crew: P. P. Shiloh, E. H. Bost, W. Howell

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13	Control Monument Station
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15	Control Monument Station
16	U.S. Station
17	Control Monument Station
18	U.S. Station
19	Control Monument Station
20	U.S. Station
21	Control Monument Station
22	U.S. Station
23	Control Monument Station
24	U.S. Station
25	Control Monument Station
26	U.S. Station
27	Control Monument Station
28	U.S. Station
29	Control Monument Station
30	U.S. Station
31	Control Monument Station
32	U.S. Station
33	Control Monument Station
34	U.S. Station
35	Control Monument Station
36	U.S. Station
37	Control Monument Station
38	U.S. Station
39	Control Monument Station
40	U.S. Station
41	Control Monument Station
42	U.S. Station
43	Control Monument Station
44	U.S. Station
45	Control Monument Station
46	U.S. Station
47	Control Monument Station
48	U.S. Station
49	Control Monument Station
50	U.S. Station
51	Control Monument Station
52	U.S. Station
53	Control Monument Station
54	U.S. Station
55	Control Monument Station
56	U.S. Station
57	Control Monument Station
58	U.S. Station
59	Control Monument Station
60	U.S. Station
61	Control Monument Station
62	U.S. Station
63	Control Monument Station
64	U.S. Station
65	Control Monument Station
66	U.S. Station
67	Control Monument Station
68	U.S. Station
69	Control Monument Station
70	U.S. Station
71	Control Monument Station
72	U.S. Station
73	Control Monument Station
74	U.S. Station
75	Control Monument Station
76	U.S. Station
77	Control Monument Station
78	U.S. Station
79	Control Monument Station
80	U.S. Station
81	Control Monument Station
82	U.S. Station
83	Control Monument Station
84	U.S. Station
85	Control Monument Station
86	U.S. Station
87	Control Monument Station
88	U.S. Station
89	Control Monument Station
90	U.S. Station
91	Control Monument Station
92	U.S. Station
93	Control Monument Station
94	U.S. Station
95	Control Monument Station
96	U.S. Station
97	Control Monument Station
98	U.S. Station
99	Control Monument Station
100	U.S. Station

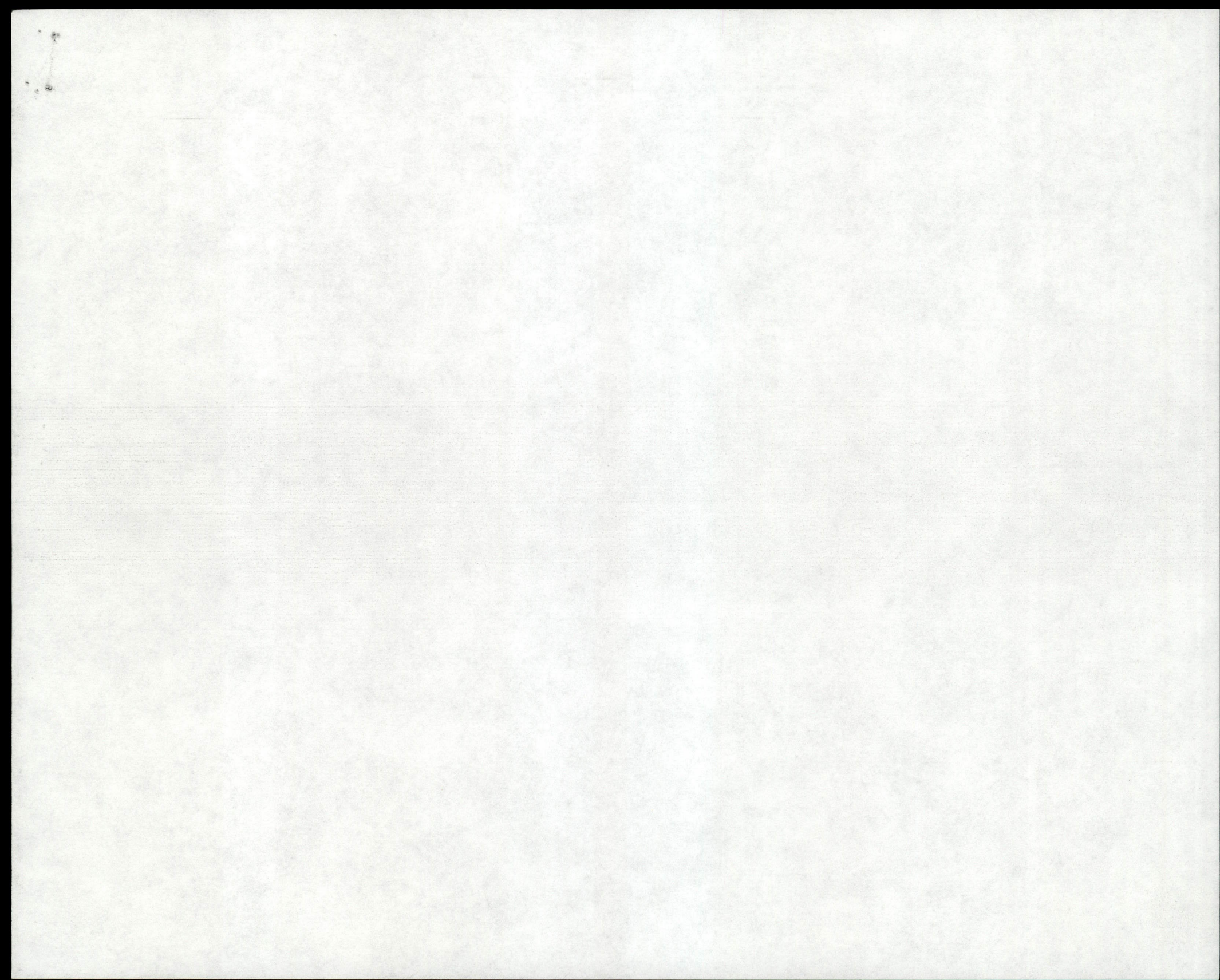
Dr. P. Shiloh, R.E.S.

521

521

W. A. BEATTIE & ASSOCIATES

MANITOBA LAND SURVEYORS



Serial 3744

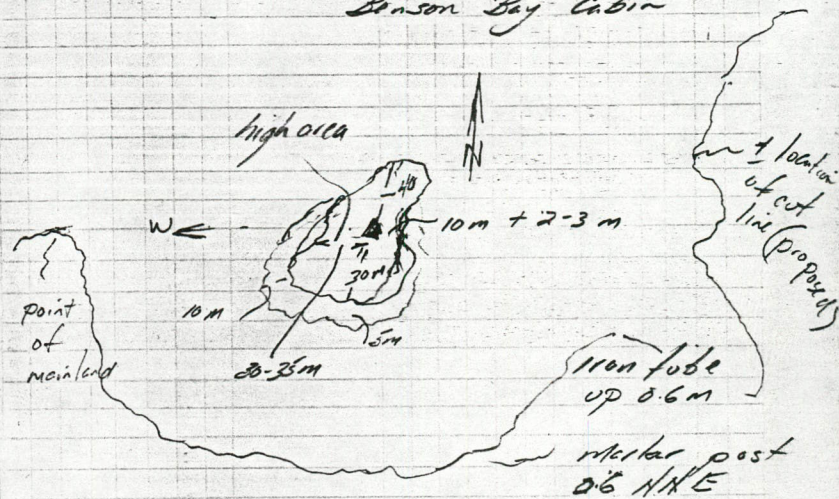
No. 1 ✓

• height 0.83 m above top to tube 1.45 to ground

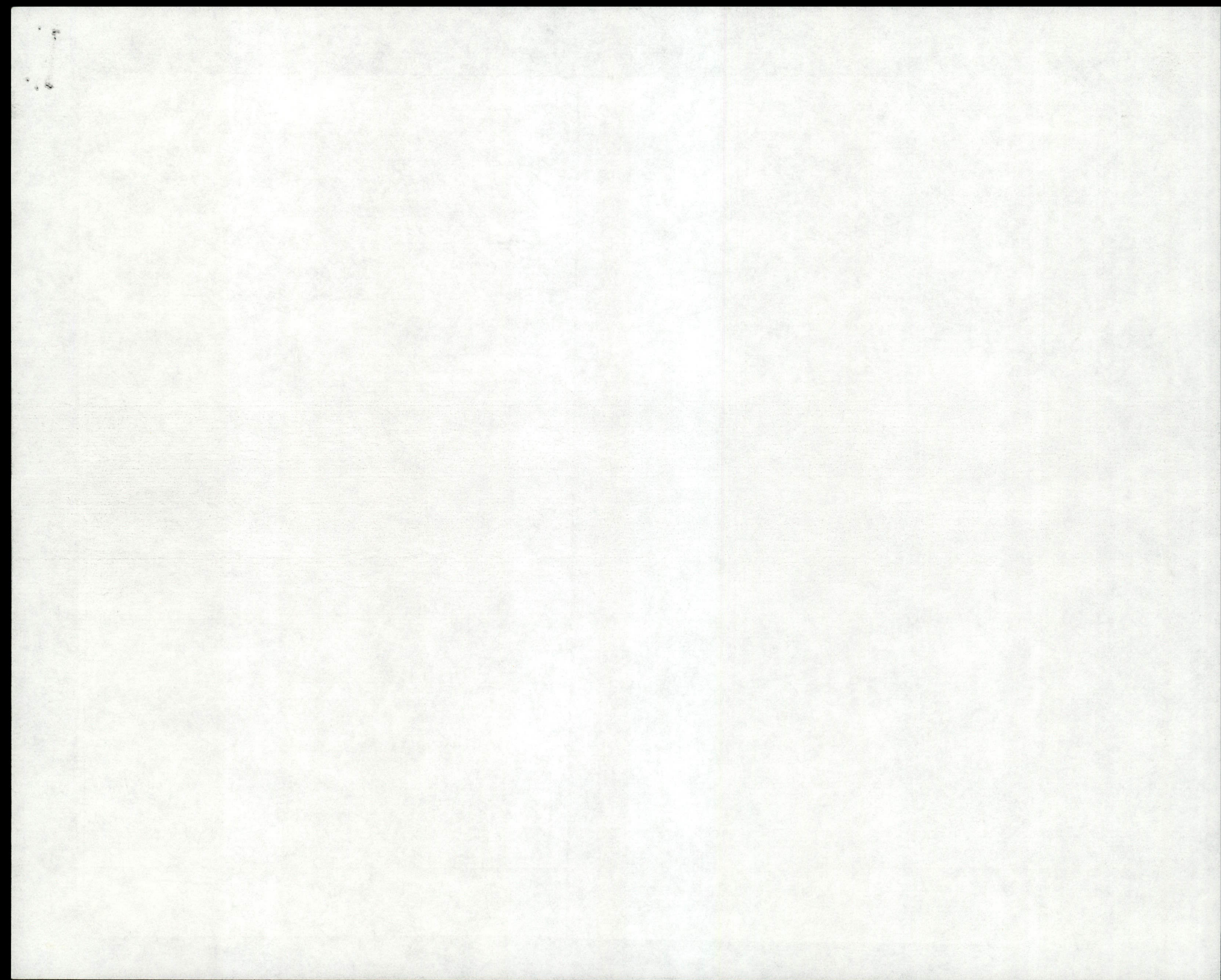
Time start 10:05 Jan 18/96

end 11:30

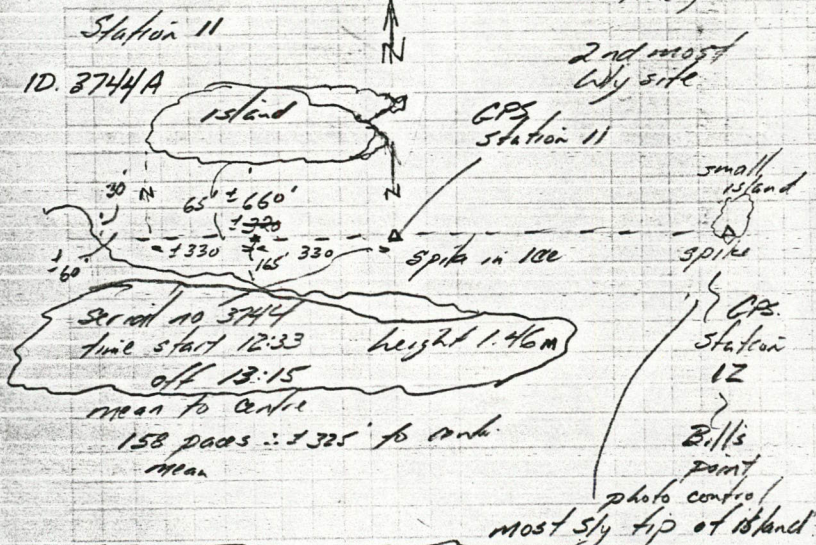
GPS

Station # on island at West side
of short cut line near
Benson Bay Cabin

Metac

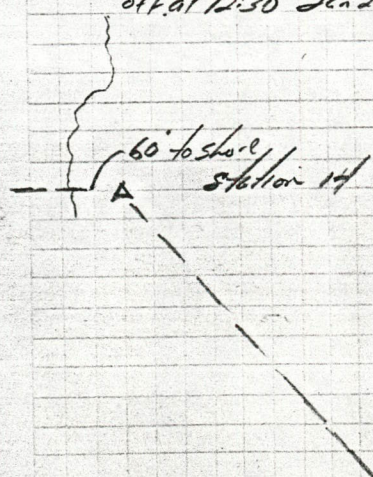


Jan 18/96 2 N end of cut line (long bending line)



East end of long bending line

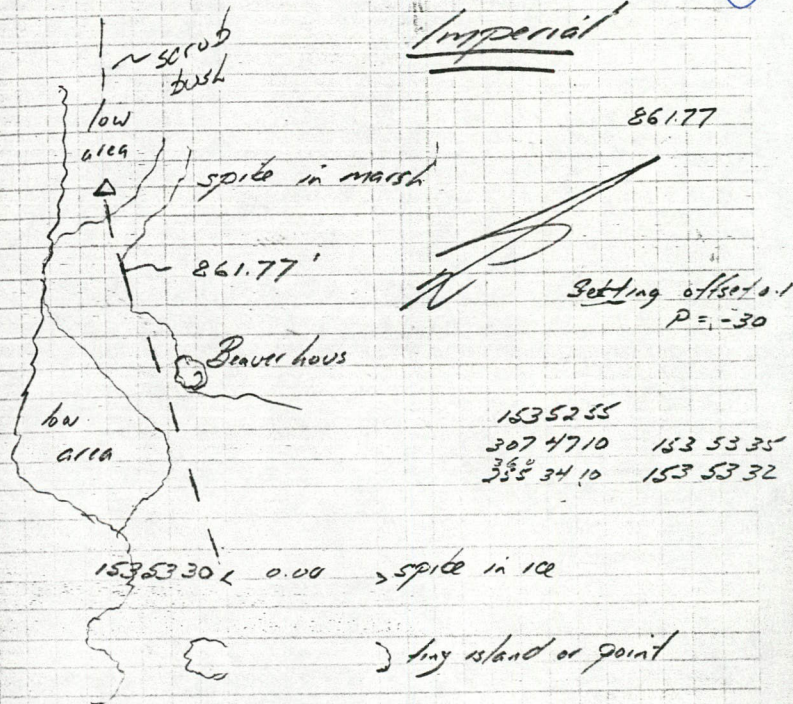
3744 offal 12:30 Jan 20/96



Imperial

Traverse in at East end of Bella Lake S. Jan 19/96 3 DFS

Imperial



1535255
307 4710 153 5335
333 3410 153 5332

133 3455
3671055 1333528
174 5342140 1333525

(+1000 m) should be 5101.42

? measures 1.5 km on abscissa

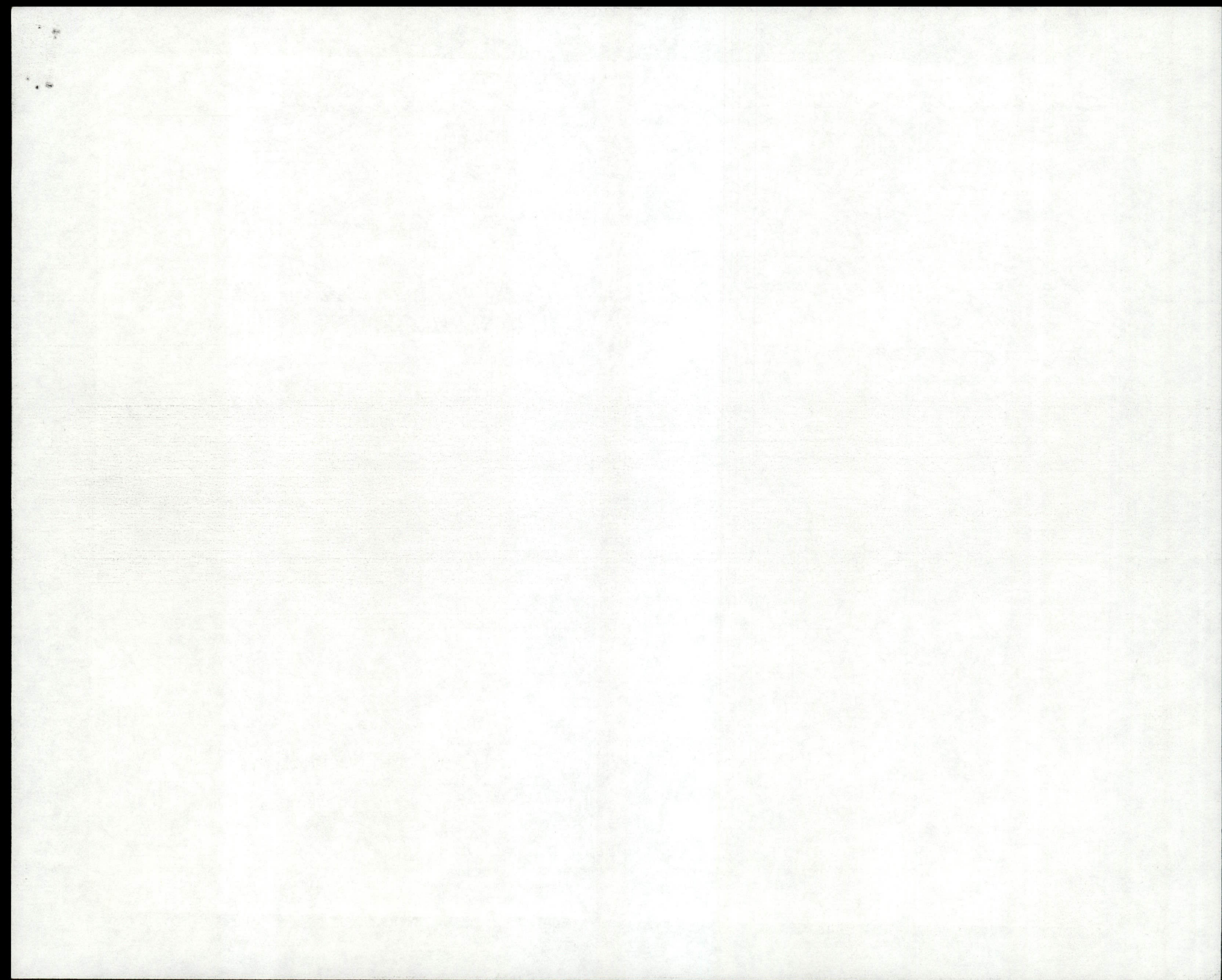
133 3525 1820.58 spike station (13)

2465.66
96 R000
cup on island
(8)

1820.58

5101.42

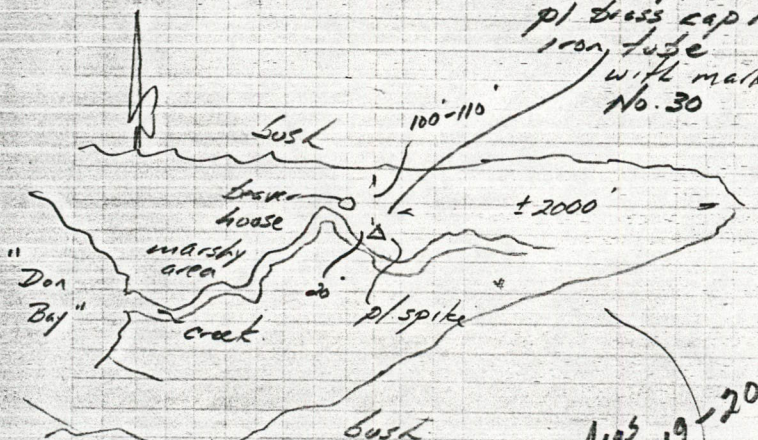
Imperial



4 Benson Bay Central SE Parcel
West End of line

GPB Station 19 West end of
Jan 20/96 swampy area on
3500 M line (1st line
East of Cabin)
Receiver 3744
on 1:43
height 1.52 m
off 2:15

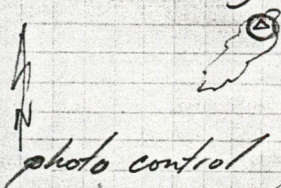
Feb 8/96
pl brass cap in
iron tube
with marker
No. 30



Jan 20/96 GPB Station 20
Receiver 3744
on 2:32
height 1.47 m above rock

Meas
Station 19-20
5235.20
GPS = 5235.13

spike in rock sticking up
on Northern tip of island
at entrance to bay for above point



Feb 8/96
pl brass cap in
rock
No. 31

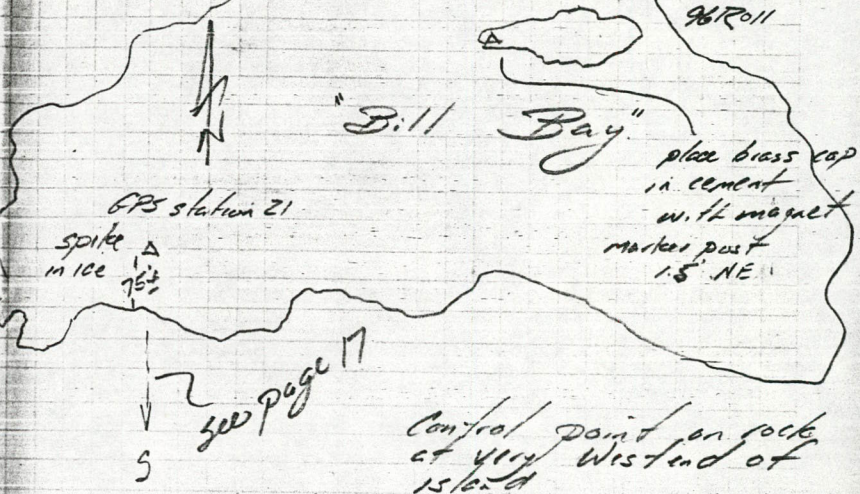
Imperial

Benson Bay Central SE. Parcel

lat. side $\pm 53^{\circ}44'$
long $\pm 94^{\circ}19'$

5 Jan 23/96

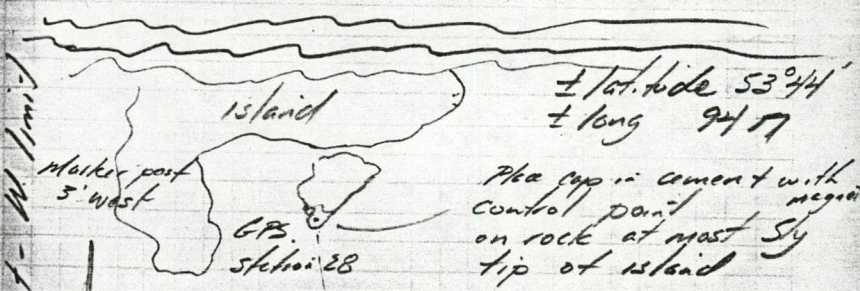
GPB Station 22 Control 1 Mon
96R011



GPB station 21
spike
in ice
75'

place brass cap
in cement
with magnet
marker post
15' NE

Control point on rock
at very West end of
island

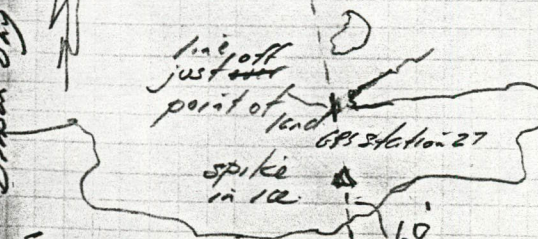


$\pm$ lat. side $53^{\circ}44'$
 $\pm$ long $94^{\circ}19'$

place cap in cement with magnet
control point
on rock at most S
tip of island

Control Mon 96R009

Benson Bay East - W limit



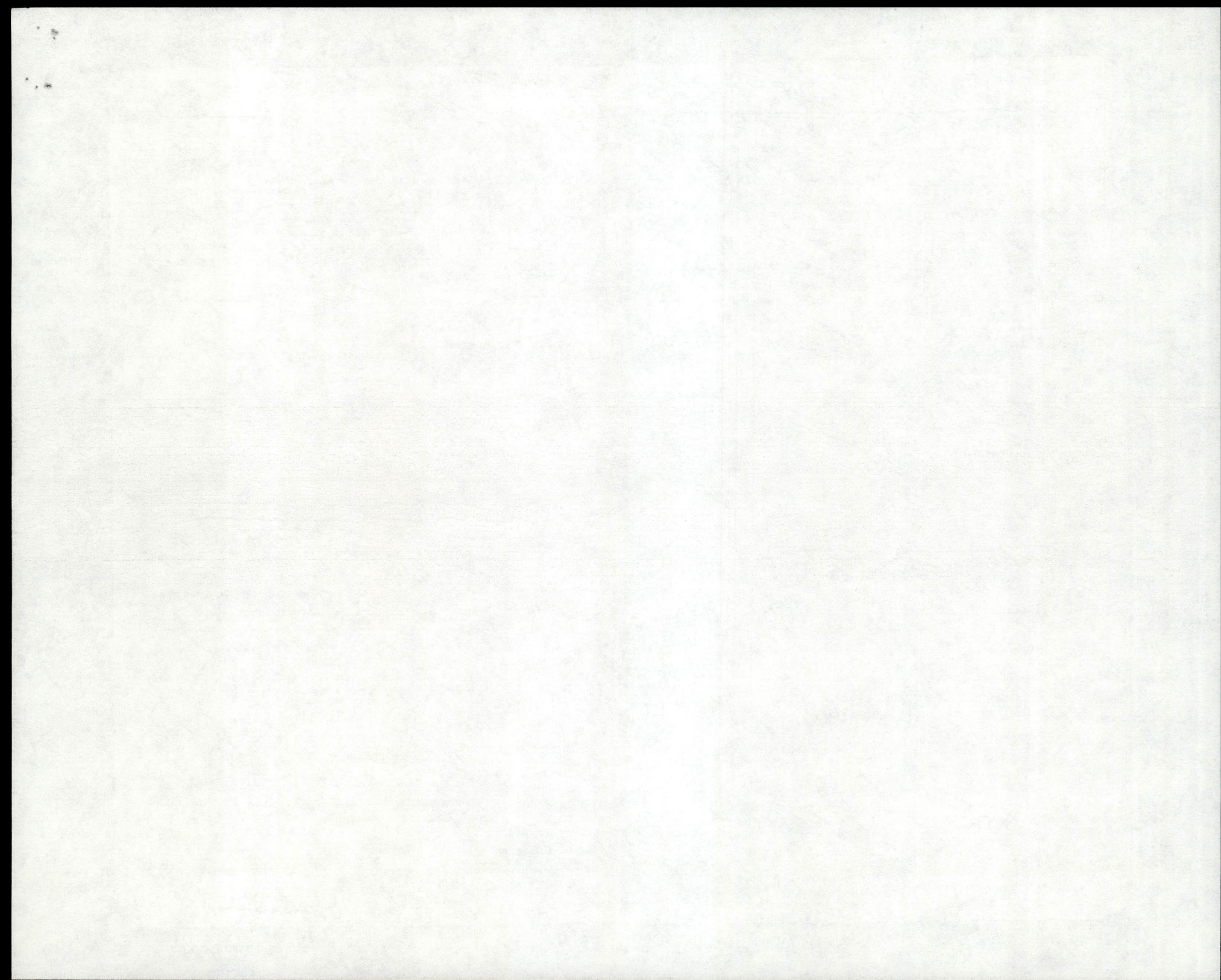
see page 16
for posting

60'
rises
very
steeply.

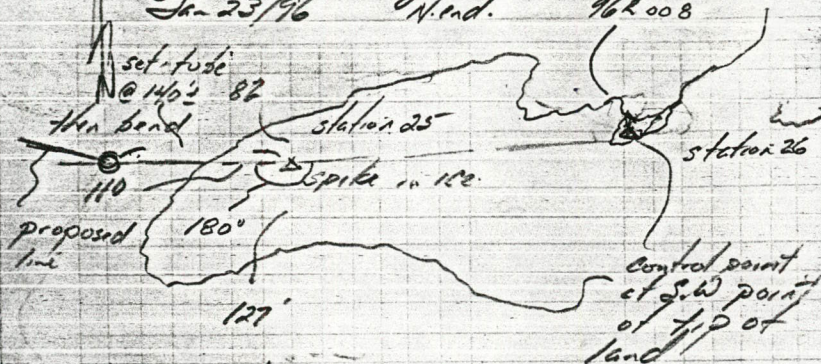
Setting up
line at
W. limit of
Benson Bay
area.

Jan 23/96

Imperial



Benson Bay Central
Jan 23/96 Large Parcel N. end. control monument 962008



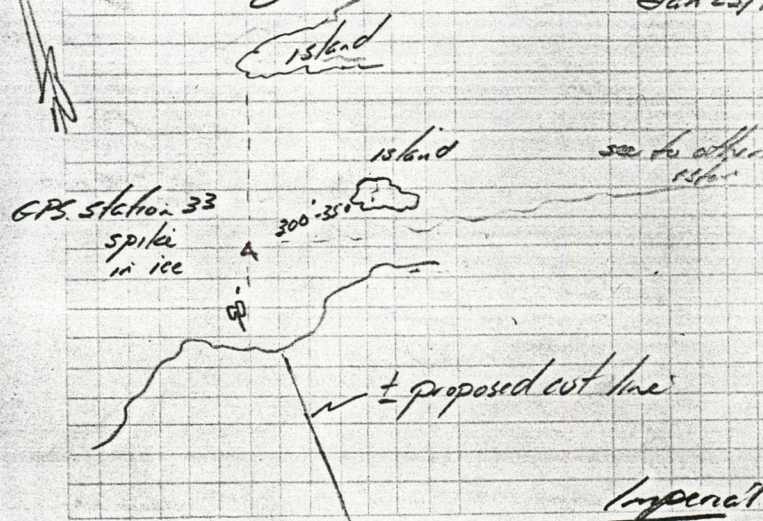
long 94°21'
lat 53°43'30"

marker post
2' North
brass cap cemented
in rock with magnet

Setting up line at N. end of Central site

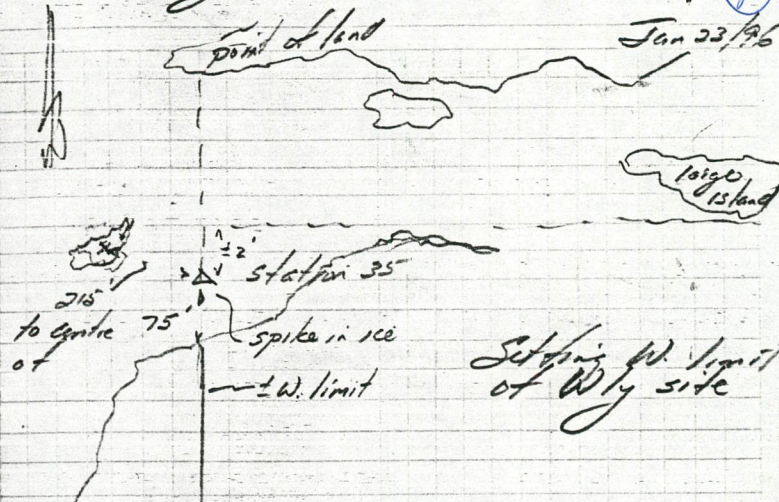
Turn 178° or 177

East end of most Wly site
Benson Bay West - Small Parcel
Jan 23/96



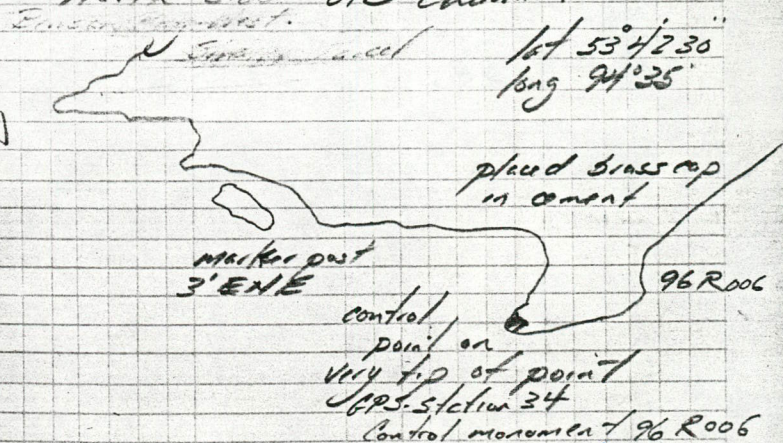
Imperial

Benson Bay West - Small Parcel (621)
Jan 23/96



Setting up line at N. end of Wly site

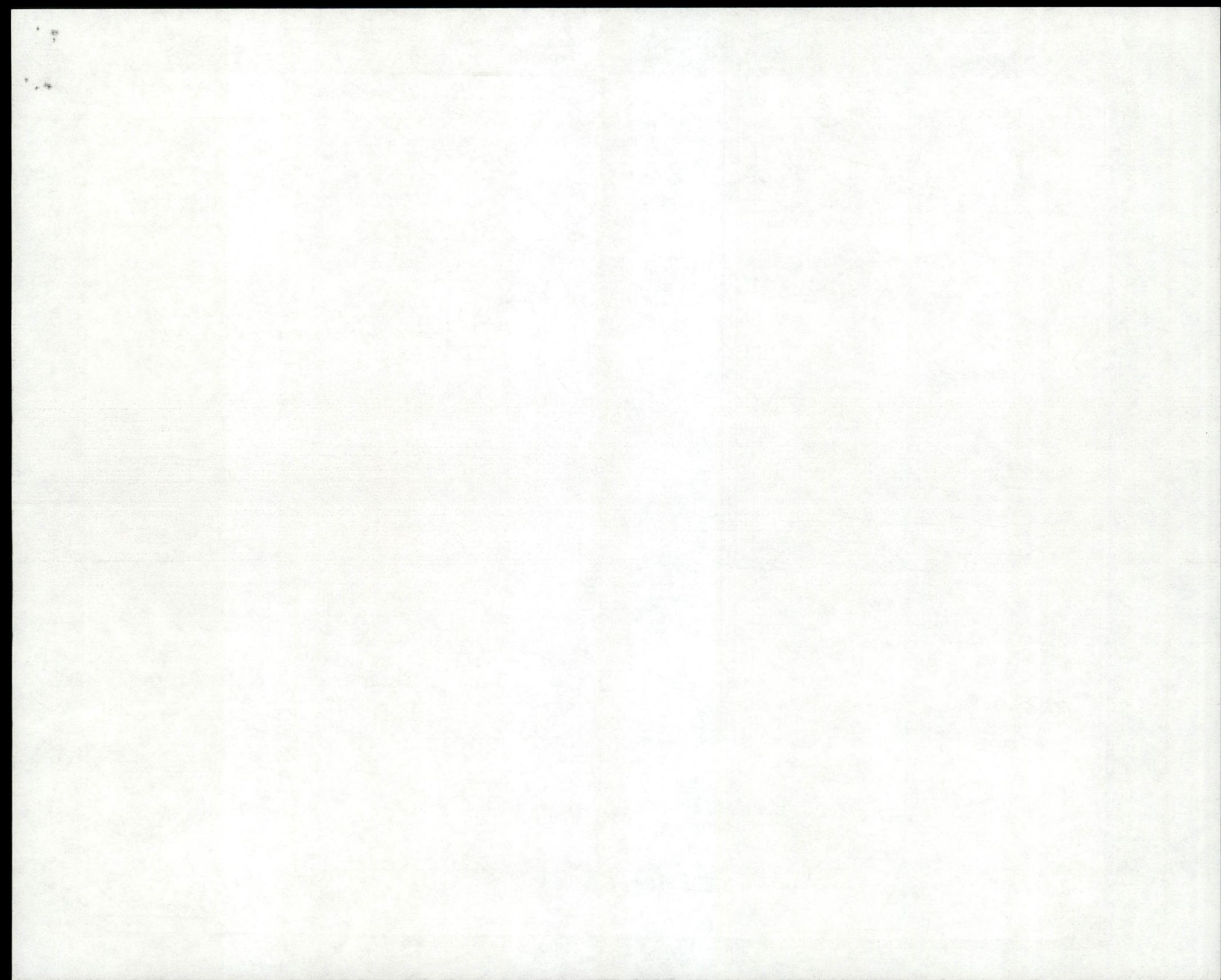
Control point at Wly site on North side of channel
Jan 23/96



GPS station 35
spike

GPS station 33
spike

Imperial

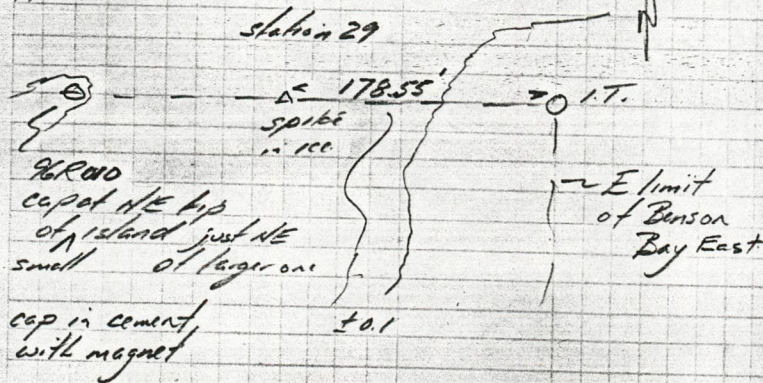


8 GPS work Jan 25/96

Jan 25/96 station 10
Receiver 2389
on 12:31
height 1.35 m
96 R010

Jan 25/96 station 29
Receiver 3744
on 12:43
height 1.55 m
spike on line between
IT @ N. end of East limit
Benson Bay line
(spike in ice)

1.7
177'



9 GPS work Jan 25/96

ST on island

5+
station 30A

short cut line

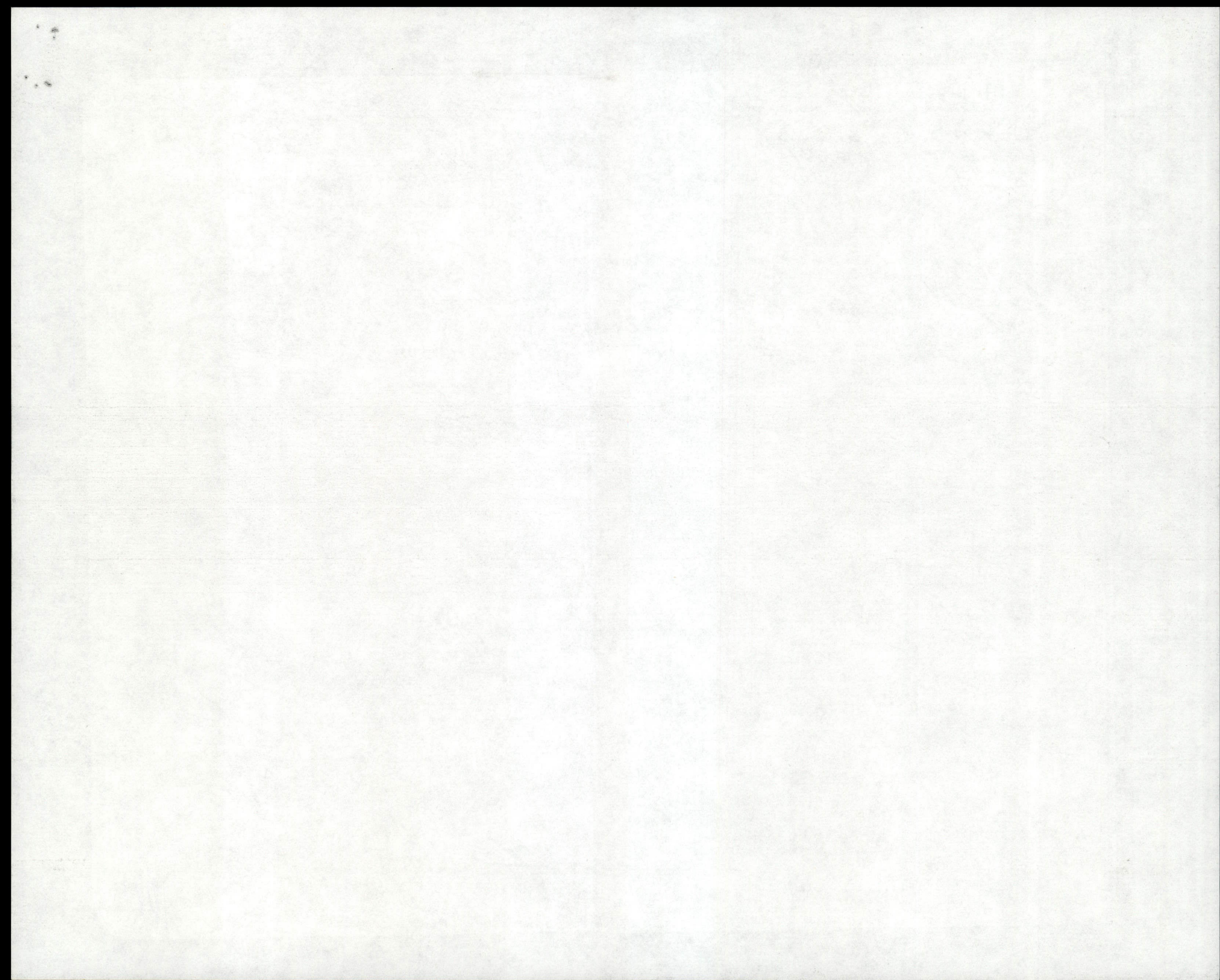
Station 4 (Iron tube)
96R004

Jan 25/96
Receiver 3744
on 2:57 PM
height 0.85 m

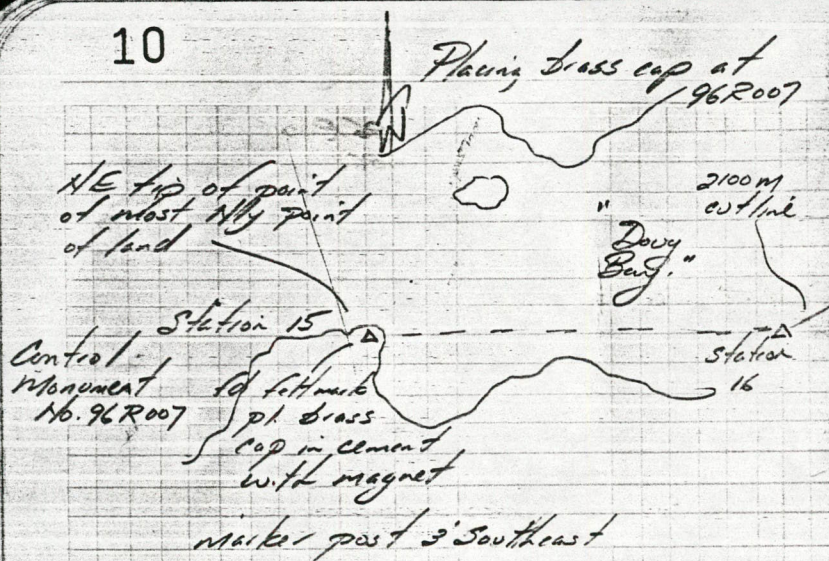
Jan 25/96
Receiver 2389
on 2:47 PM
height 1.515 m

off ± 4:30

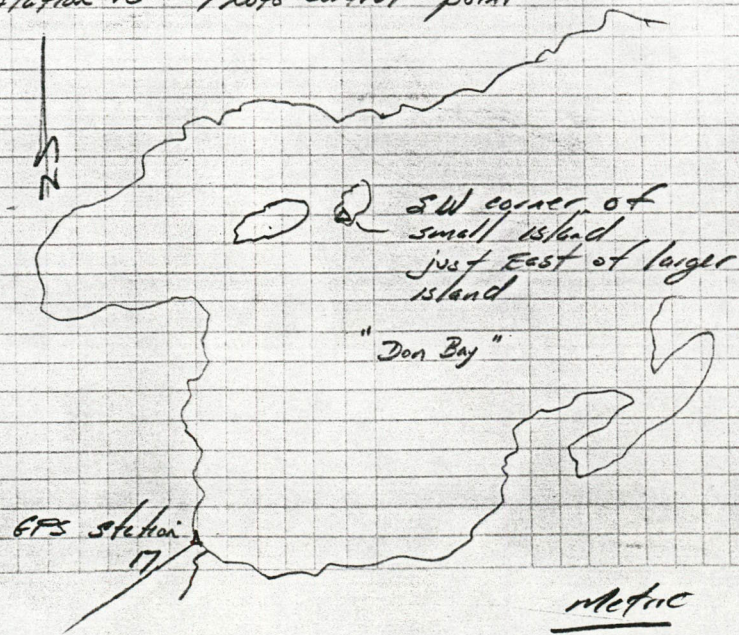
Defac



10



Sketch for
GPS Station 18 Photo control point



Jan 26/95 11

(21)

GPS Work

Station 5 96R005

Receiver No 5862

On. 8.30 AM

Height 1.41m off $\pm$ 4:30

2389 Receiver
Station 22 96R011
9.24 AM
Height 1.575m
off 10:12

Receiver No. 5855

Station 21

on 9:32 AM

Height 1.55m

off 10:00 AM

spike in ice

Session 1

"B. Bay"

Station 31A
Receiver 5855
on 10:31 AM
Height 1.52m

photo control
East end of island

Station 32A
Receiver 2389
on 10:43
Height 1.58m

felt mark
on rock

Session 2

of NE tip of island
Station 31A
spike on ice

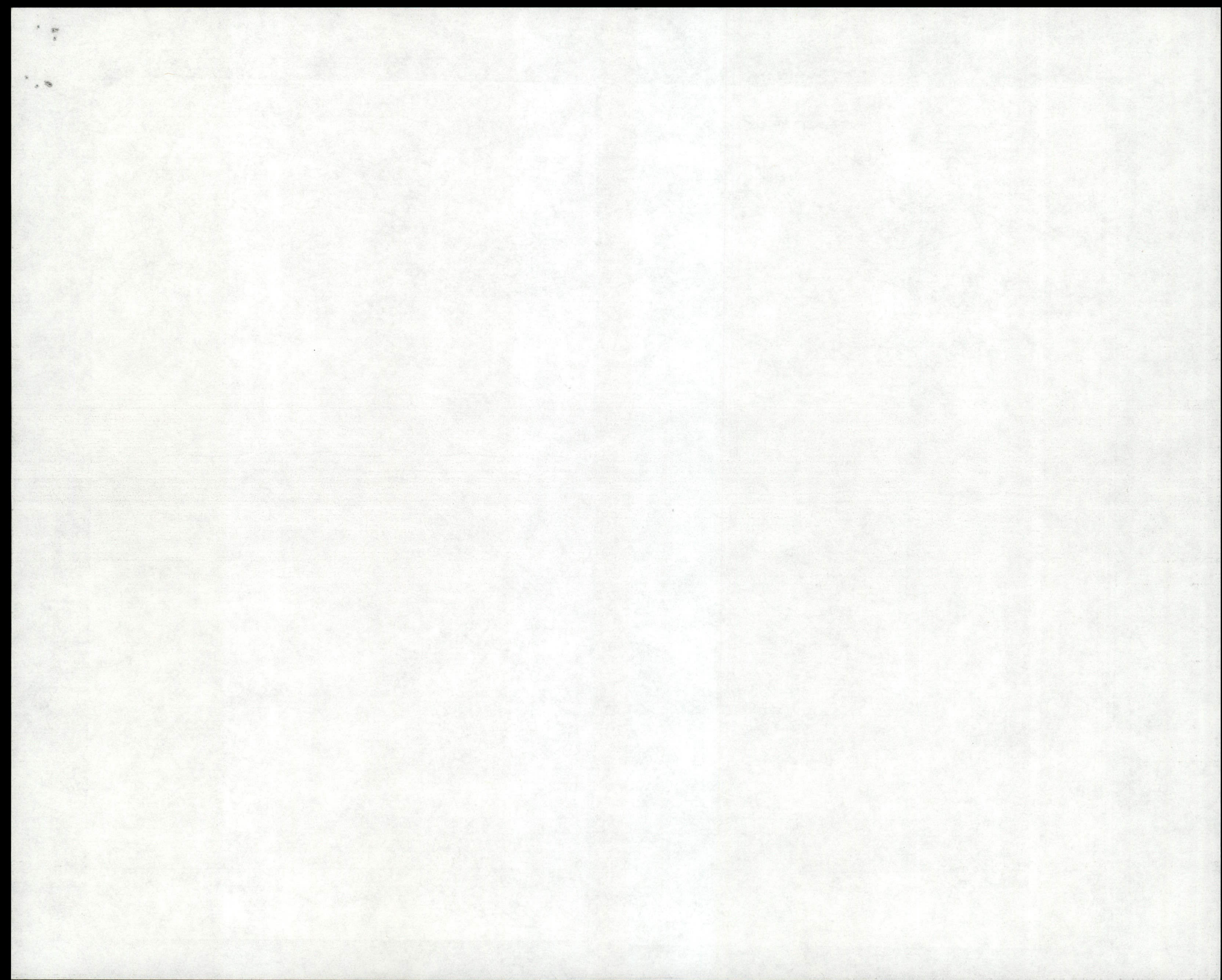
Benson
Bay

Station 32A
felt mark
on rock
cockro

maybe
shoreline
cobble

marshy
area
crack

Metre



12

GPS Work Jan 26/96

Receiver 5855
on 11:46 AM
height 1.435 m

Station 28
96R009

Session
3

Receiver 2389
on 11:58 AM
height 1.635 m

Station 27
spike in ice

See sketch page 5

Receiver 5855
on 12:52 PM
height 1.56 m

Station 26
96R008

Session
4

Receiver 2389
on 1:01 PM
height = 1.56 m

Station 25
spike in ice

See sketch Page 6

slow to record data at Station 25
probably due to high ice cover
to South and West and NW

Metric

13

GPS Work Jan 26/96

Receiver 5855
on 2:35 PM
height 1.56 m

Station 33

Receiver 2389
on 2:47
height 1.44 m
off 3:47

Station 34
96R006

Receiver 5855
on 3:24
height 1.54 m
off 4:00 PM

Station 35

See sketch for points Page 7

Receiver 3744
on 8:39 AM
height 0.9 m
off 5:00 PM

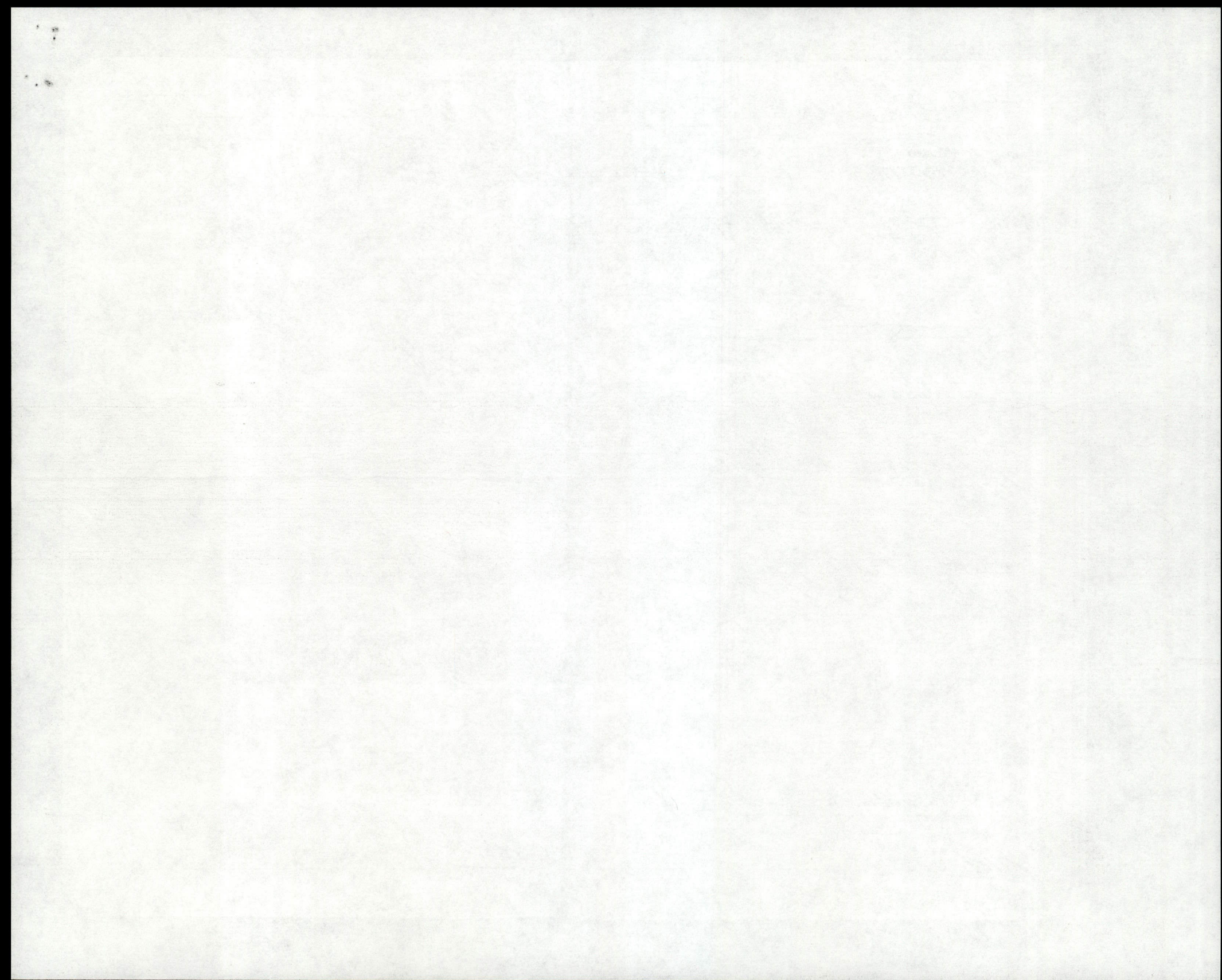
Station 4

96R004

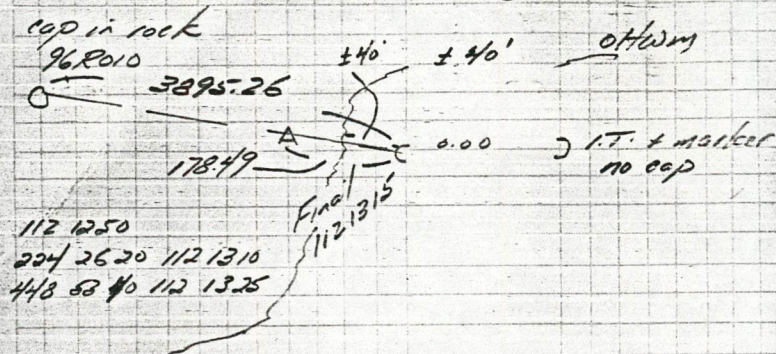
turn 112°13'15" → turn 112°12'40"

Metric

[Signature]



14 Starting cutting on Jan 27/96
E limit of Benson Bay side



adj 0.03 for χ < -653.93 > spike
West

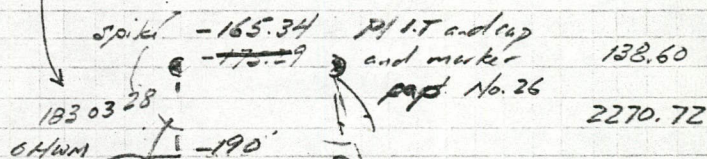
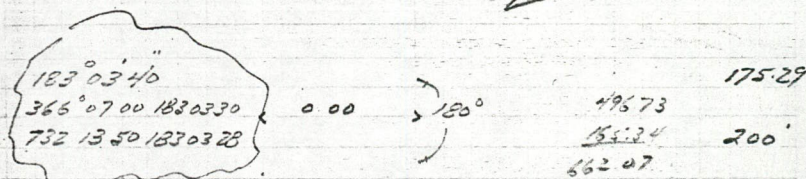
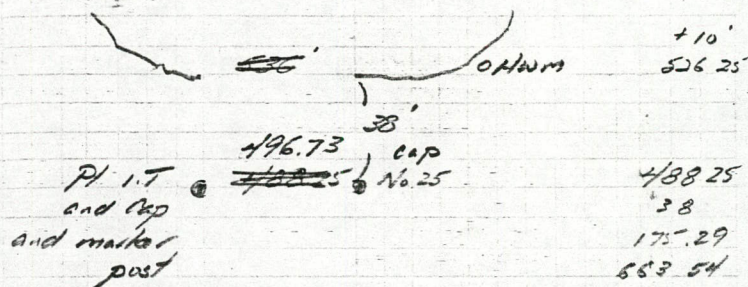
cut ± 750-1000'
beyond spike



Imperial

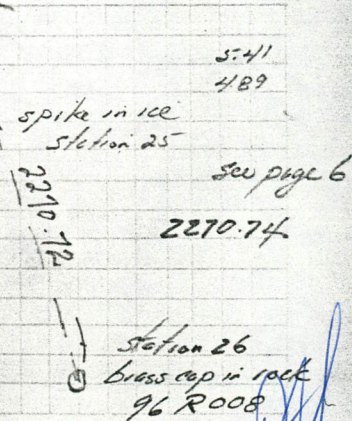
Position N limit of Benson Bay
Central Site (Large Parcel)

15 Feb 5/96
DFS 814



GPS calc
2132.67
meas
2132.70

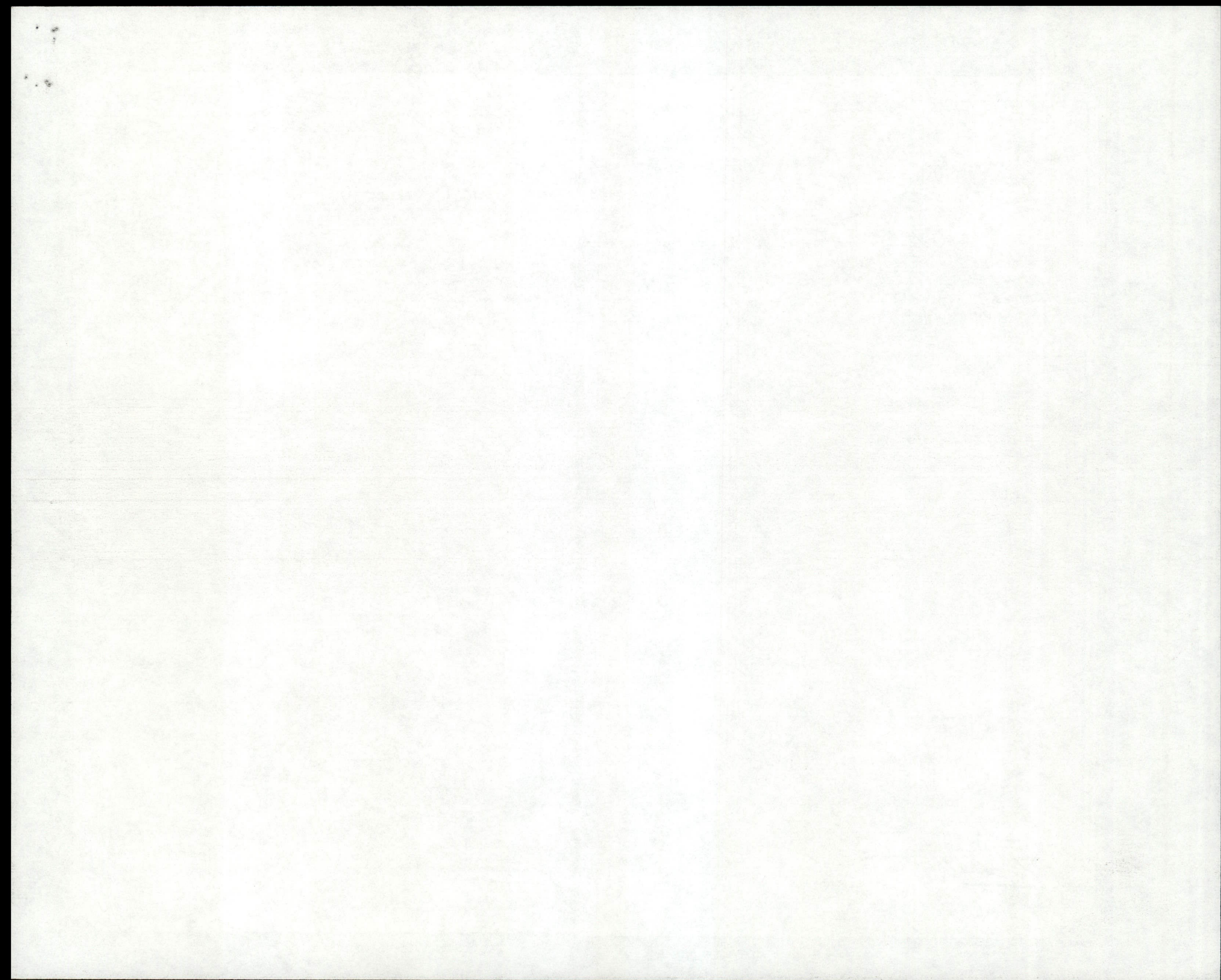
Imperial



see page 6

2270.74

Station 26
brass cap in rock
96 R008



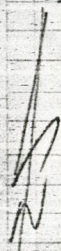
16 Postings W. limit of Benson
Bay Ely Parcel.

Feb 6/96
DFS BH

GPS
3211.34
meas 3211.30
96R009 354/9.10
cap in rock (354/9.27)

See page 5

DTM 20 failing
354/9.97 battery
L slope dist.



spike in ice 346.55 Lake
337.80
Island 50' South

1795910
360 00 00
720 00 00

spike on hill 0.00 180 00 00

Pl IT -35.45
brass cap & marker
cap. No 27

pl IT and cap
5.28 -1535.82 and marker
cap No 28
1541.10
0.00

Imperial

OHWM -250'

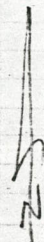
Benson

Bay

Setting up E limit of S.E.
Parcel of Benson Bay Central

17 Feb 8/96
DFS BH

See pages 5



Station 21
spike in ice 0.00

Station 22
spike 1707.70
1707.68

cap in rock
96R011

"Bill Bay"

135 54 30

OHWM -21'

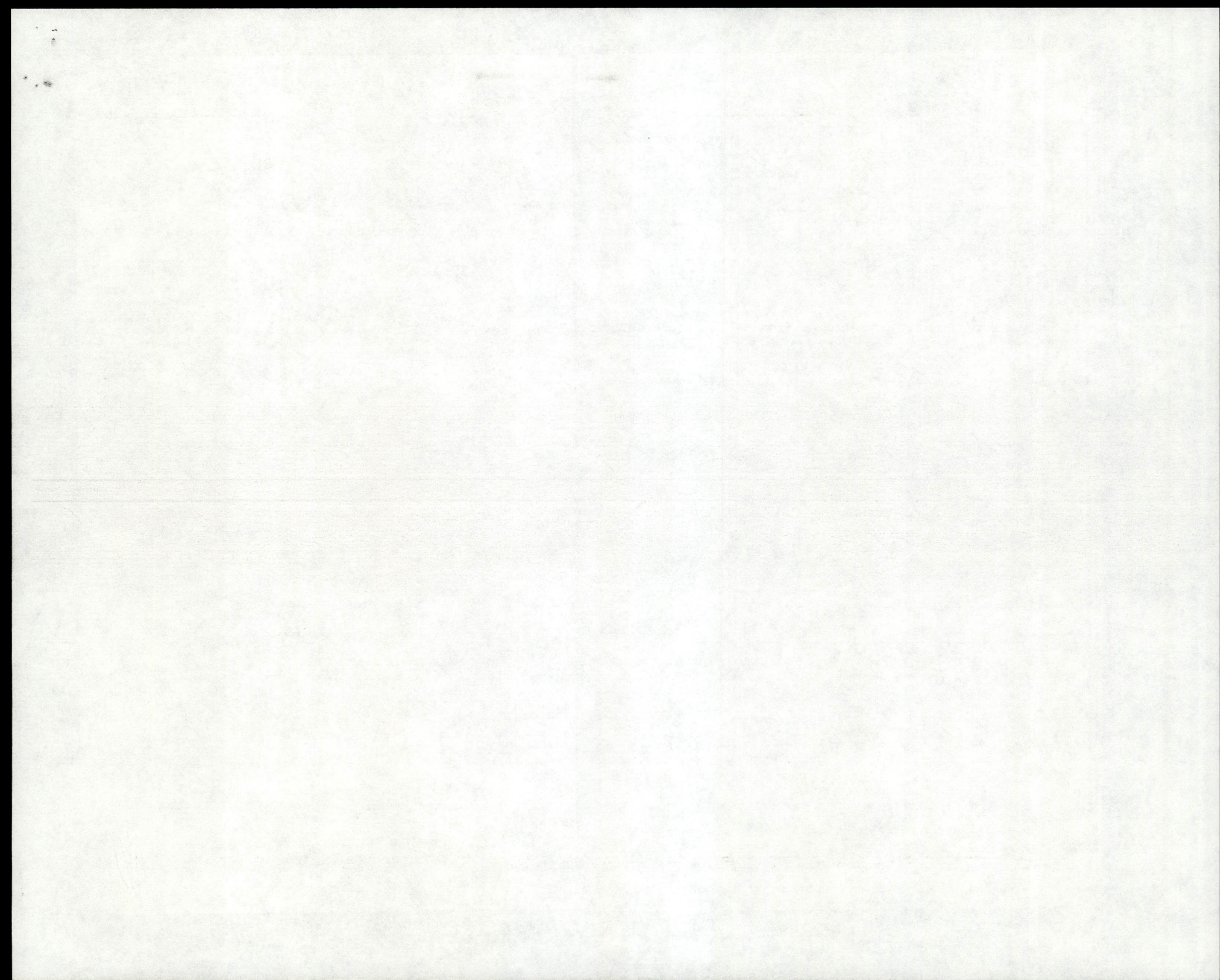
135 54 40

271 49 00 135 54 30

intermediate to 96R011
-201.93 Pl. IT brass
cap and marker post
cap. No. 29

Imperial

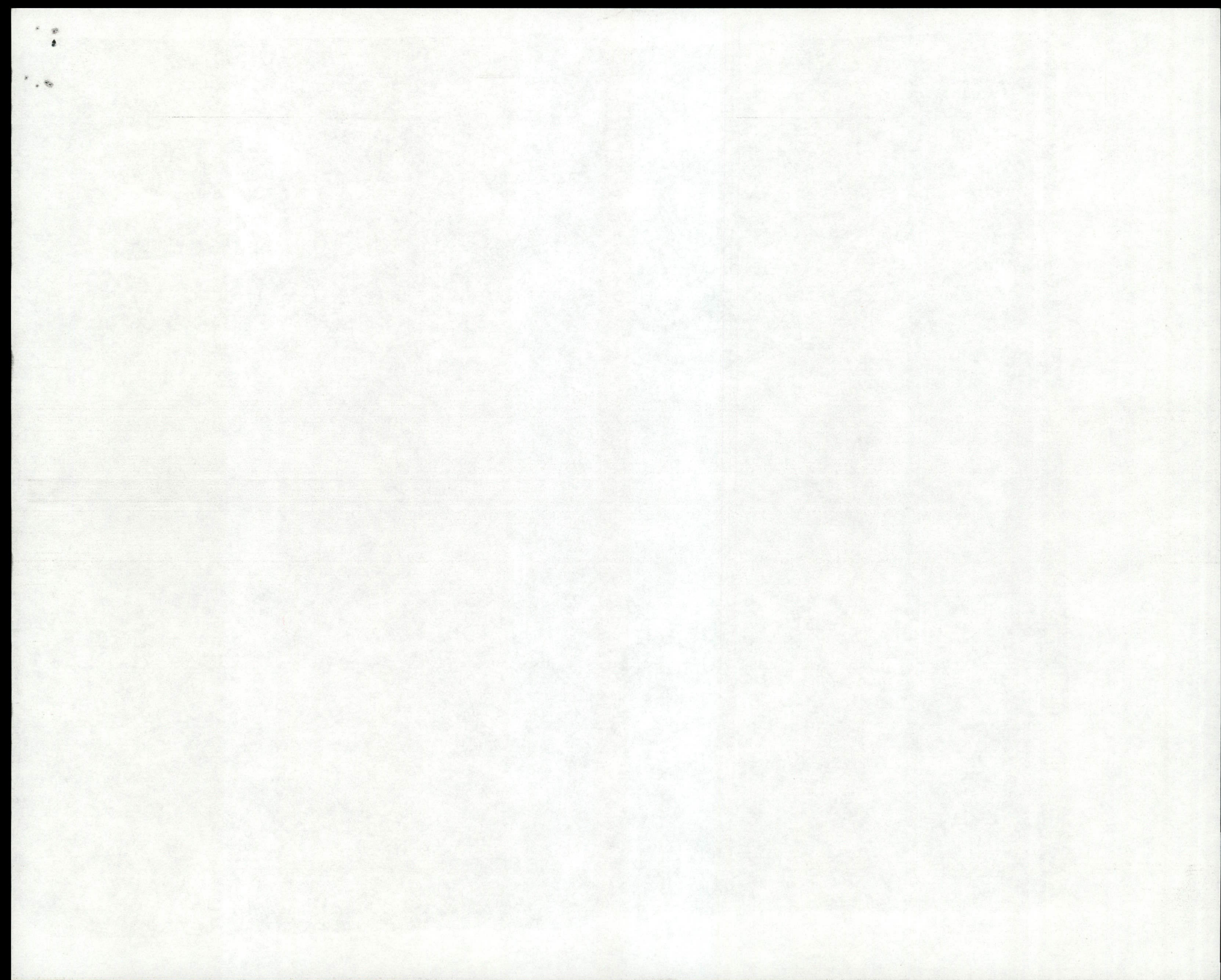
[Handwritten signature]



523

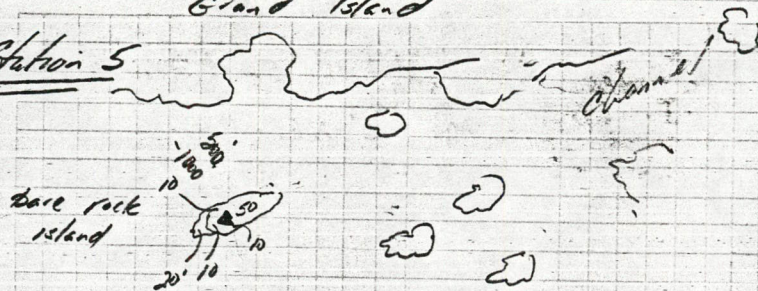
W. A. BEATTIE & ASSOCIATES

MANITOBA LAND SURVEYORS



2 Grand Island

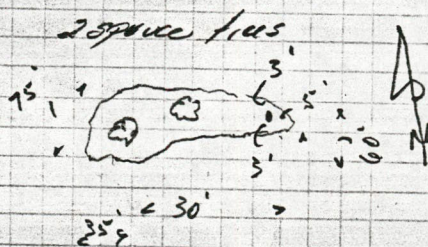
Station 5



marker post 15' N of hole

Brass cap with magnet
cemented in rock
96R005

North side N. peninsula + Benson Bay



Station 10
COR 3

1.2 km. ± E. of N.E. boundary Benson Bay
T-Iron 2.5' W. of cap

170' new Control Point 96R010

Brass cap with magnet
cemented in rock

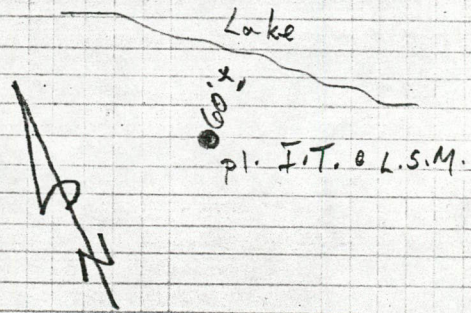
Imperial

GPS work - Bella Lake 3

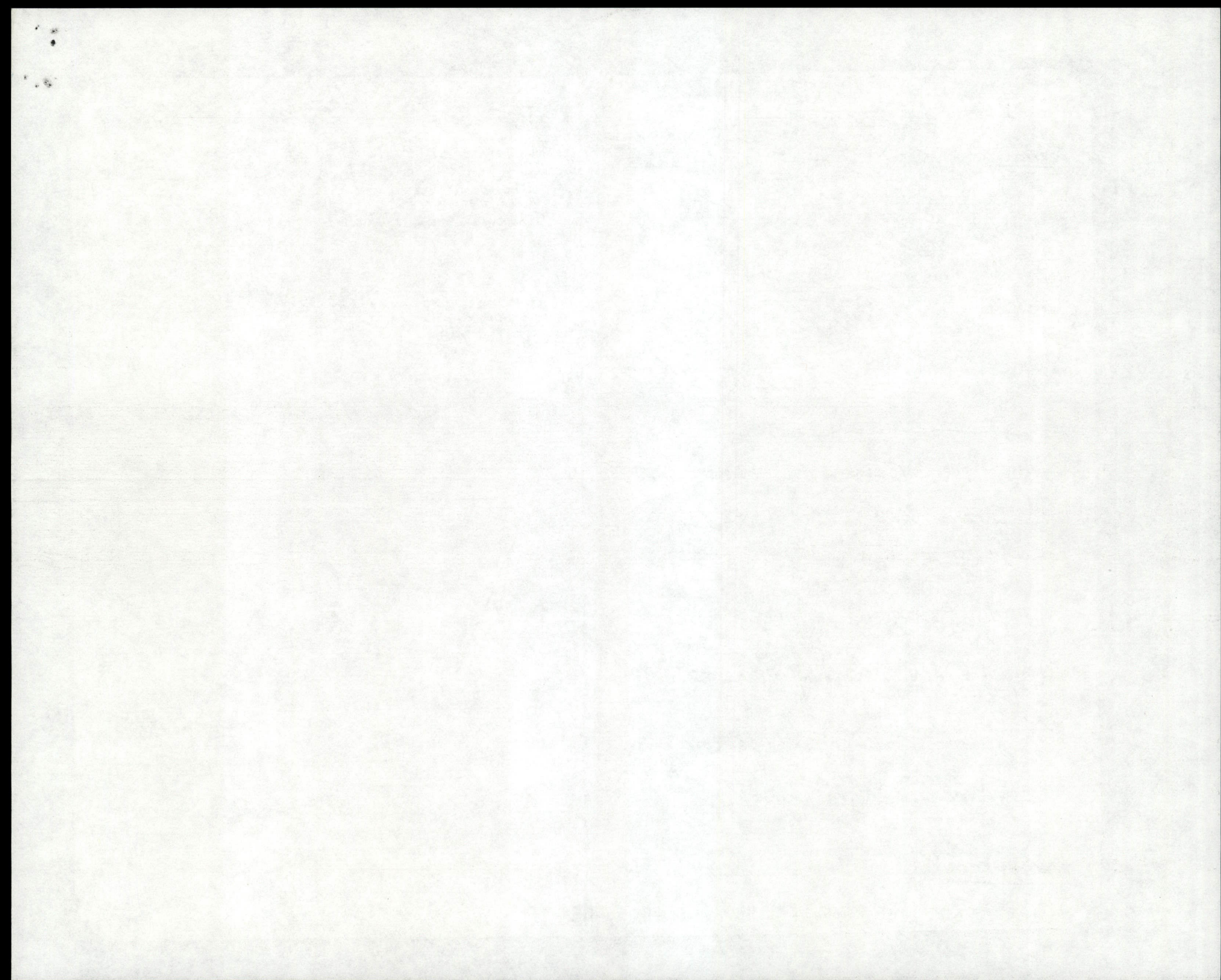
Thurs. Satellite log on 10:22 AM.
Confederation Island - Ref. Mon. M72104
H.I. 1.636
Receiver SN3536A 12196
Antenna - Cansel Rental 0229

96R000 Logged on 225
3744 Ser. No. Inst.
H.I. 1.47

Jan. 19, 1996 DNP Bill H. Donald



[Handwritten signature]



4 Jan. 20, 1996

GPB Work

Station 4
Serial 165855

H.I. 0.99 m.
Tracking 10:15

Station Serial No. 3744

(14) H.I. 1.57

Tracking 11:00

Spk. in Ice

Station Serial No. 2389
(15) H.I. 1.40

Tracking 11:26
Off 12:30

Flt. mk.

Station Serial No. 5862
(16) H.I. 1.47

Tracking 11:25
Off 12:21
lost satellite after

Spk. at SE corner of bay - start
West end of 2100 line

Station Serial No. 2389
(17) H.I. 1.64

Tracking 1:54
Off 2:58

Spk. N. edge creek

Metre 1

Jan. 21, 1996
Cap by Lake - old Res. Bndy.
Ser. No. 3744
H.I. 1.67

GPB work 5

Tracking 10:42
Off 12:55

Ser. No. 2389
H.I. 1.755

Tracking 11:26
Off 12:21

bent I.B. - used base @ gnd.

Ser. No. 2389
H.I. 1.477

Tracking 1:48

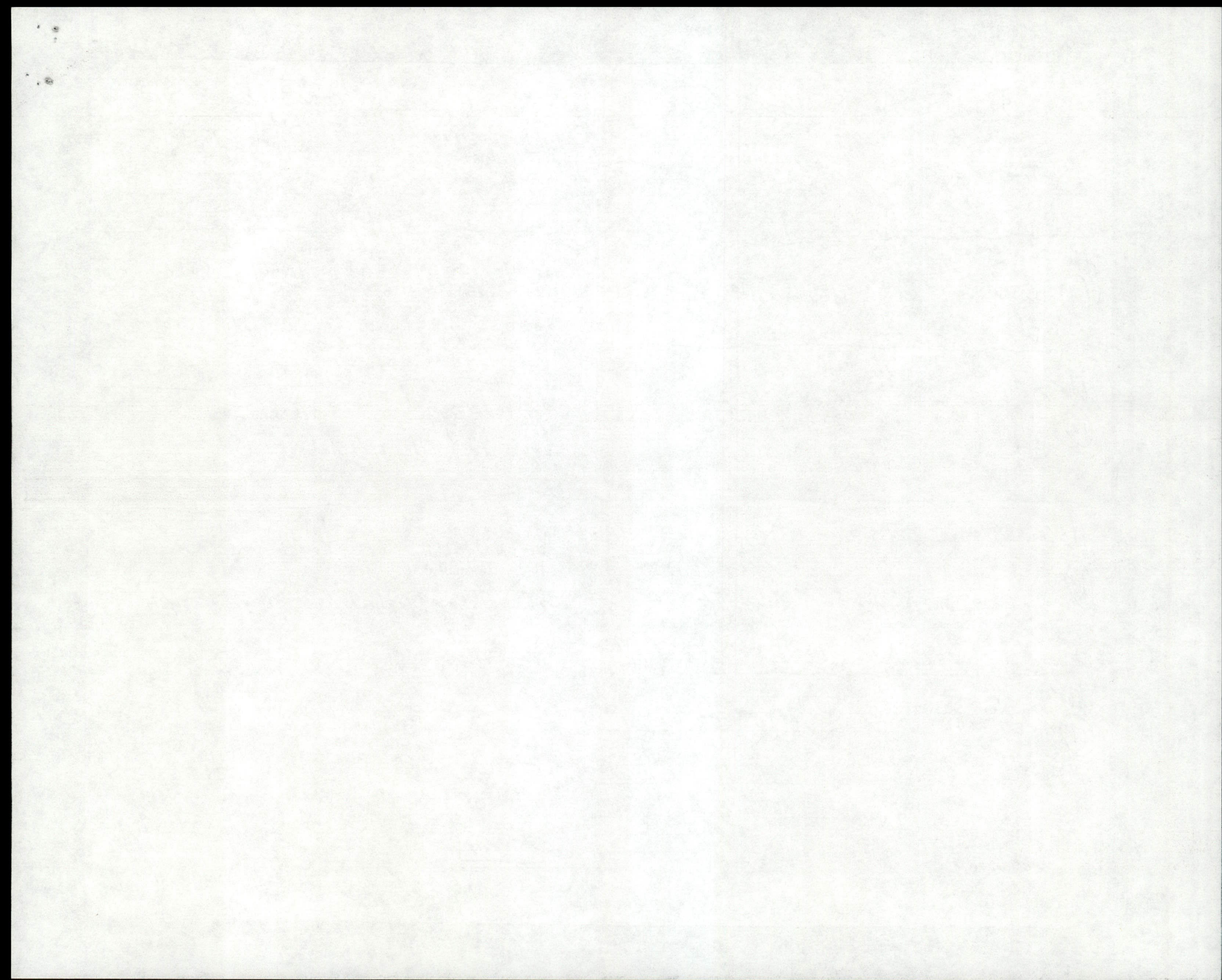
Rock Post N. side lake

Jan. 26, 1996
Ser. No. 3744
H.I. 0.90 m.

Tracking 8:39 A.M.

I.T. on small island just West of cabin.

Metre



6 South End - "Don Bay"
 GPS + left mark
 Station 18
 3461.6
 30'
 132 44 30
 265 30 00
 Road 132 45 00
 turned 44 40
 132 44 40
 15
 0.00
 535.15
 Station 17
 spike
 low marshy area

adj 0.05
 Done
 pl. I.T.
 cap No. 3
 0.00
 180°
 180°
 933.41
 0.00
 pl. I.T.
 on hill
 cap No. 4

pl. I.T.
 cap No. 5
 interline point
 3604.67
 1744.20
 180°

13.64
 pl. IT with cap
 No. 6
 Road 16654.57
 0.00
 spike
 Station 16 GPS
 would not
 place spike
 O.H.W.M.
 GPS Station 15
 brass cap
 in rock
 Imperial

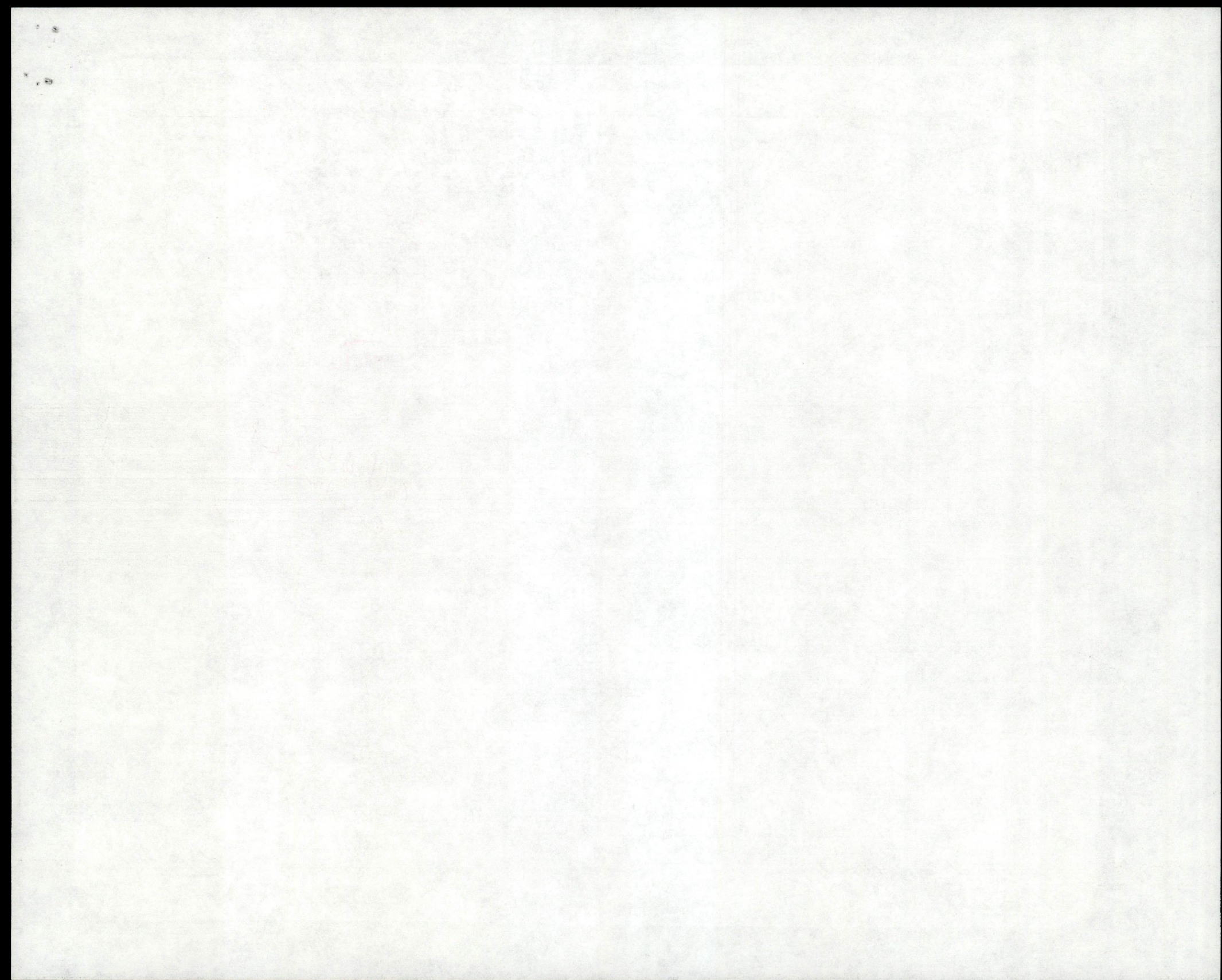
Benson Bay Central - Large Parcel 7
 Posting Southly Limit

W-N-E
 166° 54' 00"
 36 933 49 55 166 54 58
 307 667 39 30 166 54 57

1744.20
 2053.60
 No. 4
 adj 13.64 N.E along line
 90' from No. 6 to O.H.W.M.

Called D.S.
 correction in Road

Imperial



8

Feb. 5, 1996
T = -25°C.
DNP DFS Bill H.Jan. 30, 1996
T = -38°C.
DNP Bill H.

1) 36°26'40"
2) 72°53'00"
4) 145°45'40"
36°26'25"

1) 36°26'15"
2) 72°52'40"
4) 145°45'30"
36°26'23"

+ 36°26'55"

3604.67'

1) 36°27'00"
2) 72°53'50"
4) 145°47'20"
36°26'50"
Final

S-W-N 828.19'
1) 179°59'05"
2) 359°59'20"
4) 359°59'20"
179°59'50"

1) 179°59'00" S-W-N
2) 359°59'45" 497.83'
4) 359°59'20"

S-W-N
1) 179°59'00" 1619.23'
2) 359°58'50" 40 nl.
4) 359°57'40"
179°59'25"

- adjust
0.13' East
- mean of angle
of interline

690'
290'
980'
1619'
2599'

1619.23' 497.83' 828.19' 2206.37'

pl. n.

pl. I.T., cap #11
L.S.M.

pl. n.

pl. I.T., L.S.M.,
cap #10

pl. spk.

90°39'16"

-2395.11'

pl. I.T., L.S.M.,
cap #9

1) 90°38'20" adjusted
2) 181°16'50" 0.10
4) 2°35'30" West
90°38'53"

W-N-E

1) 179°59'00"
2) 359°59'50"
4) 359°59'58"
179°59'58"

Imperial

South End "Doug Bay"

Jan. 29, 1996
T = -30°C.
DNP BillJan. 25, 1996
T = -26°C.
DNP Bill H.Pensacola Bay West
large parcel

1750'

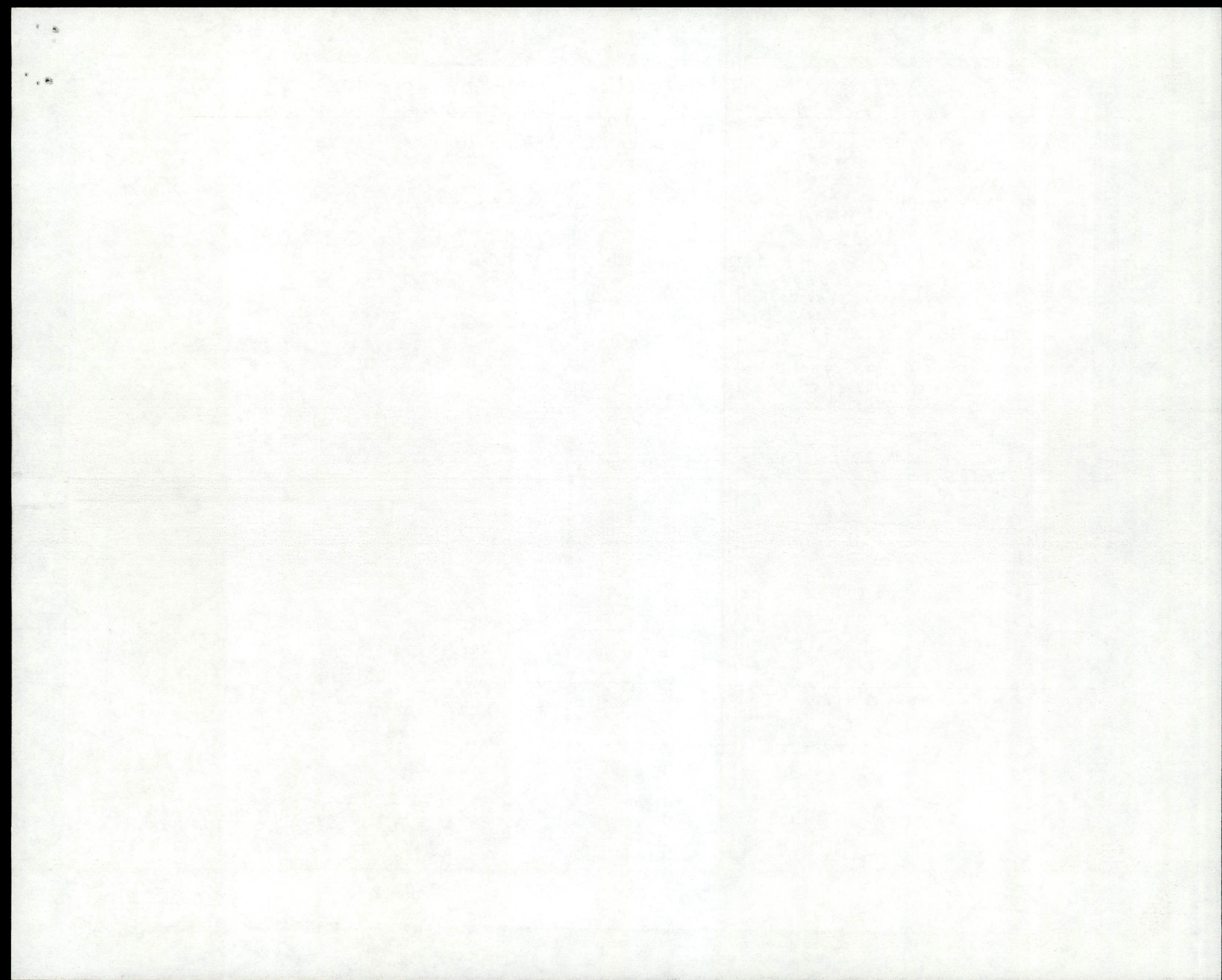
36°26'55"
6785.24'fl. mk.
on island
96007
cap in rockGPS station
spk. on
ice

0.00

-72'

O.H.W.M.

-170.10'
0.00pl. I.T. - L.S.M.
cap #7-173.66'
0.00pl. I.T. - L.S.M.
cap #8



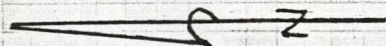
10 Cut line across peninsula just
West of cabin.

Benson Bay Central - Large Parcel

OHWM 48.7

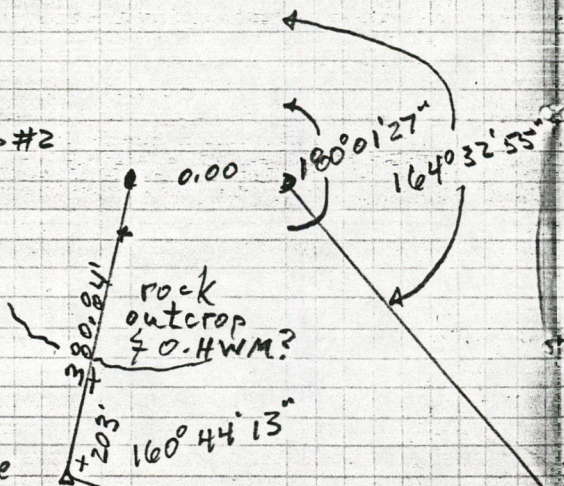
Pl. I.T., cap #1
L.S.M.

0.00
867.32'



Pl. I.T., cap #2
L.S.M.

spk. in ice
GPS'd.
GPS station 30 A



Imperial

Feb. 1, 1996
T = -38°C.
DNP Bill H.

11

(523)

1901.03'
1) 164° 32' 00"
2) 329° 05' 30"
4) 298° 05' 20"
164° 31' 30"

1) 164° 32' 00"
2) 329° 05' 55"
4) 298° 11' 40"
164° 32' 55"

1537.40'
203' spk. to OHWM

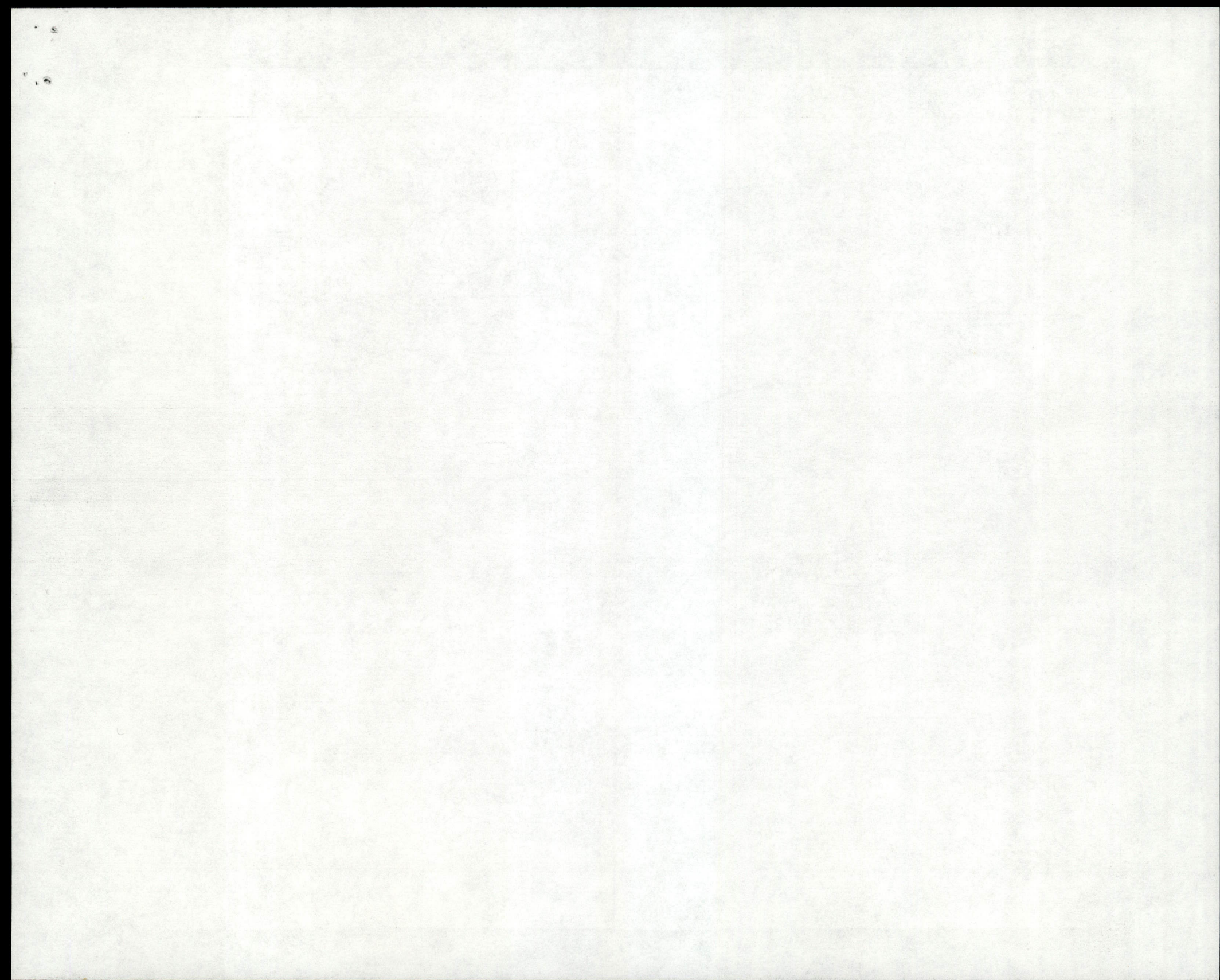
E-S-W
1) 180° 00' 25"
2) 0° 03' 00"
4) 0° 05' 50"
180° 01' 27"

1) 160° 43' 15"
2) 321° 28' 20"
4) 282° 56' 50"
160° 44' 12"

380.84'
867.32'

96R004
- control mon.
on island

[Handwritten signature]



12 Benson Bay West

Feb 3/96

- ① $179^{\circ} 58' 55''$
 ② $359^{\circ} 59' 30''$

Large Parcel

nail in stump

W 459.99
 E 5069.77

pl. spike
in rd

0.00

459.99

- 1) 84 2900
 168 5755 89 2858
 337 5740 89 2925

-176

84 29 15" OHWM

- 2) 84 2850
 168 5755 89 2858

180° -339.14
 0.00
 x marker
 pl I.T.
 cap No. 18

pl. spk. -3293.12
 0.00
 pl. I.T.
 L.S.M., cap
 #17
 180° -2.33
 0.00

179 5910
 360 00 00
 720 00 00 180 00 00

14653

180° -2288.43
 0.00
 nail in log

134 40 45

pl. I.T.,
 cap #16,
 L.S.M.,
 -146.54'

2371.64'

Imperial

Setting up North end
of longest cut line

13

GPS
Station 11

5069.77

spike South tip of
island
GPS Station 12

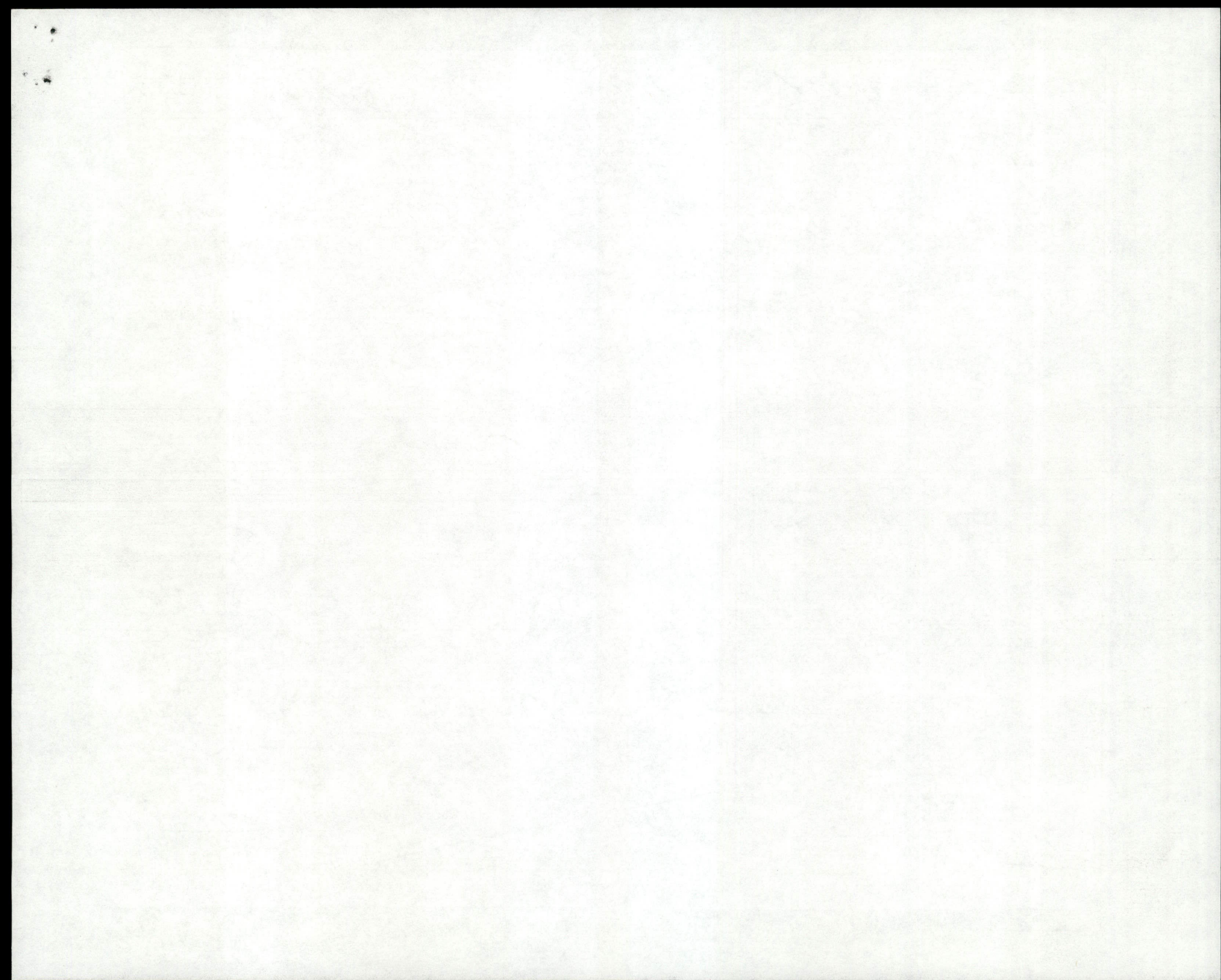
- 1) $179^{\circ} 59' 10''$
 2) 360°
 4) 0°

1470.42
 1) $134^{\circ} 39' 20''$
 2) $269^{\circ} 20' 10''$
 4) $178^{\circ} 40' 00''$
 134° 40' 00"

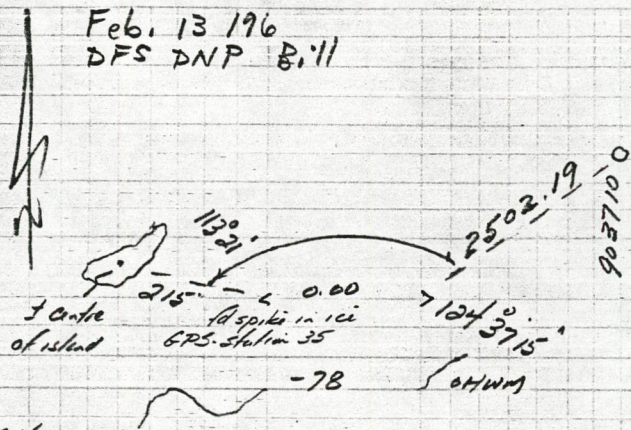
2371.64
 1) $134^{\circ} 40' 15''$
 2) $269^{\circ} 21' 55''$
 4) $178^{\circ} 43' 20''$
 134° 40' 50"

1) $134^{\circ} 40' 25''$
 2) $269^{\circ} 22' 05''$
 4) $178^{\circ} 44' 15''$
 134° 41' 04"
 Feb. 14/96

Imperial



14

Feb. 13 196
DFS DNP Bill

1243640

2491415 1243707

4982900 1243715 180° -184.34 pl. I.T. cap #24
0.00 marker

- 1) 90° 37' 00"
- 2) 181° 13' 55"
- 4) 2° 28' 40"
- 90° 37' 10"

-825.22' pl. n.l.
0.00

3970
3039
678
2361

1795910
3800000
7195955

180° -677.92' spk.
0.00-7.18 pl. I.T. cap #23
LSM180° -2060.69' n.l.
0.00-318.67 pl. I.T. cap + marker
cap #22

300±

ImperialSetting up Wly Parcel
Benson Bay West
Small parcel

15

Feb 3/96
Feb. 12 1996
DFS DNP Bill H.96R006 GPS
cap in rock station 34

318193

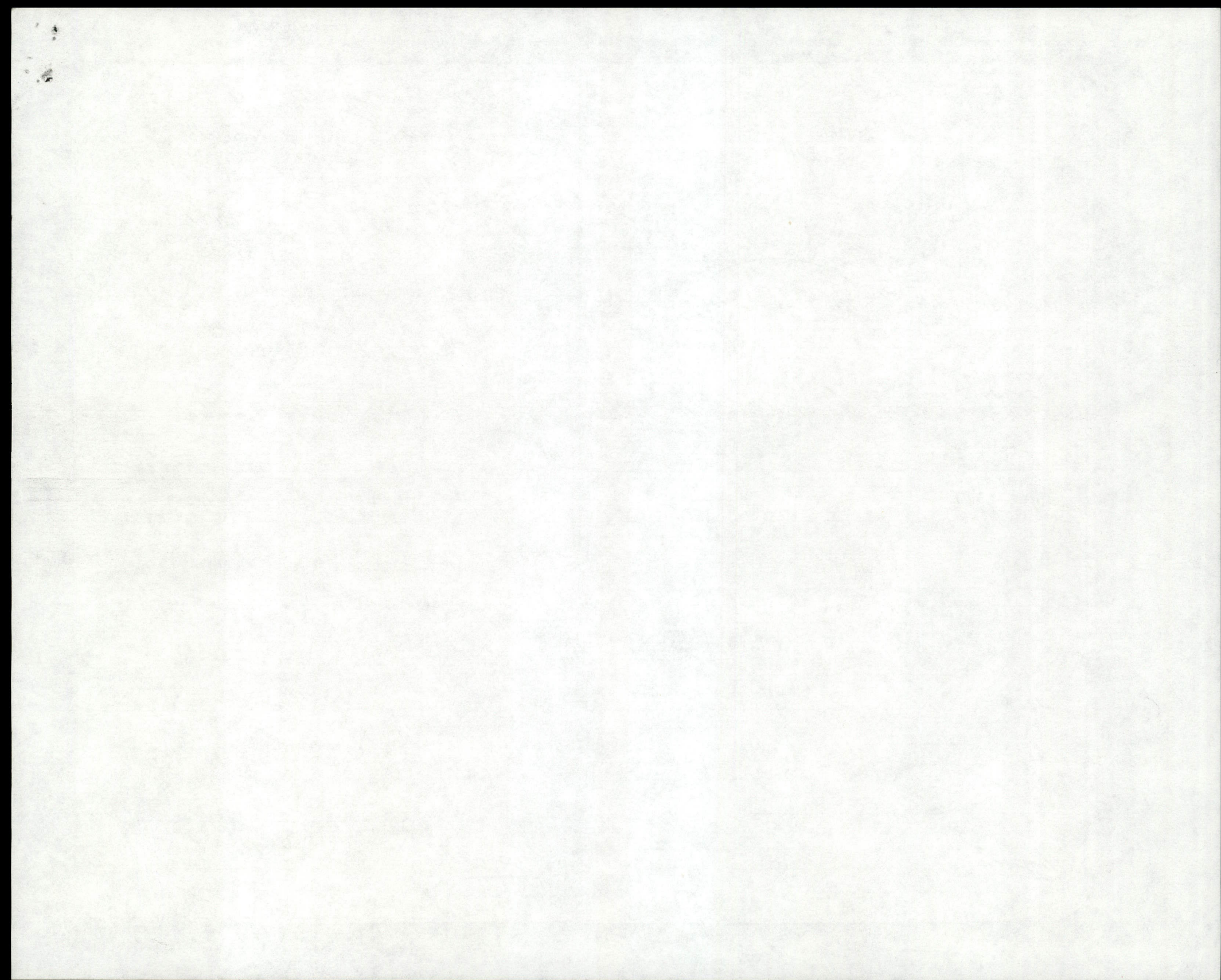
1444500
2893055
2190055 1444515

1444515 0.00 spike in ice GPS
-90' station 33
CHUM

180° -236.19 pl. I.T. & marker
0.00 cap No 19180° -664.27' n.l.
0.00180° -320.70' spk.
0.00-1.47' pl. I.T. cap #20
LSM 985
1131180° -448.48' spk.
0.00180° -614.77' n.l. in log
0.00761.56' pl. I.T. cap No 21
LSM

2953
1131
1822
448
1374
614
760

Imperial



16

2287 9426

② # 11
S-W-N.
1) $179^{\circ}59'00''$
2) 80°
4) $359^{\circ}59'55''$

Benson Bay West
Large Parcel

Feb. 6, 1996
T = -24°C .
DNP Bill H.

17

523

2966

continued Northify from page 8

pl. I.T., cap
13, L.S.M.

2978.76' spk. 13.12



@ scratch
S-W-N
1) $179^{\circ}56'00''$
2) $359^{\circ}53'10''$
4) $359^{\circ}46'20''$
 $179^{\circ}56'35''$

N-E-S
1) $180^{\circ}02'20''$
2) $0^{\circ}06'50''$
4) $0^{\circ}13'50''$
 $180^{\circ}03'27''$

2.70' nl. in log (ref.)
 $179^{\circ}56'35''$ 0.00 115.61' scratch on rock
- pl. rock post #12

0.00 2604.97' spk.

0.00 cap #11 p. 8

Impena!

