

Gunnar Þorbergsson
81/05



ORKUSTOFNUN

NATIONAL ENERGY AUTHORITY

MAPPING OF JÖKULDALSHEIDI
IN NORTHEAST ICELAND

Gunnar Þorbergsson
Asseir Gunnarsson

GP, AG-81/05

April 1981

ORKUSTOFNUN
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Report

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IN NORTHEAST ICELAND

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Permanent points on map

The triangulation points on page 05 should be indicated by a triangle or a double circle on the map. The number (not name) of the point should also be given.

Sketches of ground control

Sketches of ground control points are given on pages 06 - 23.

Computations

Survey information, including all input data used in the adjustment of the 1980 survey, is given on pages 25 - 37.

Names of map sheets

The names of the map sheets in the Jökuldalsheidi area are as follows:

2553 Grafarlönd	2453 Sænautafell	2353 Stóra-Svalbard
2552 Annardalsá	2452 Prihýrningsvatn	2352 Hákonarstaðir
2551 Krepputunga	2451 Brúarsel	2351 Eiríksstaðir
2550 Alftadalur	2450 Laugarvellir	

Field books

The surveying on Jökuldalsheidi was recorded in field books as follows:

Year:	Books:	Title:	Contents:
1980	1	Jökuldalsheidi	Sketches of Ground Control
1980	2 - 3	- -	Polygon measurements

MAPPING OF JÖKULDALSHEIDI IN NORTHEAST ICELAND

Ground control for mappings in scale 1:20.000

Survey area

The area to be mapped, Jökuldalsheidi, was photographed in 1967 and 1970 and surveyed in 1980. It is adjacent to an area mapped by VIAK in 1976 and 1977 to the southeast, and to the Mödrudalur area to the west. The area is covered by four photo-strips (4, 5, B and 6). All ground control points are natural (unmarked). The survey area is shown on page 03.

In the list of photos below, we have included an extra photo-strip (5A) which lies in the Mödrudalur area surveyed in 1979. The ground control for this strip is given in the report on the surveying in Mödrudalur: MAPPING OF MÖDRUDALUR IN NORTHEAST ICELAND, Orkustofnun, March 1981.

Photographs

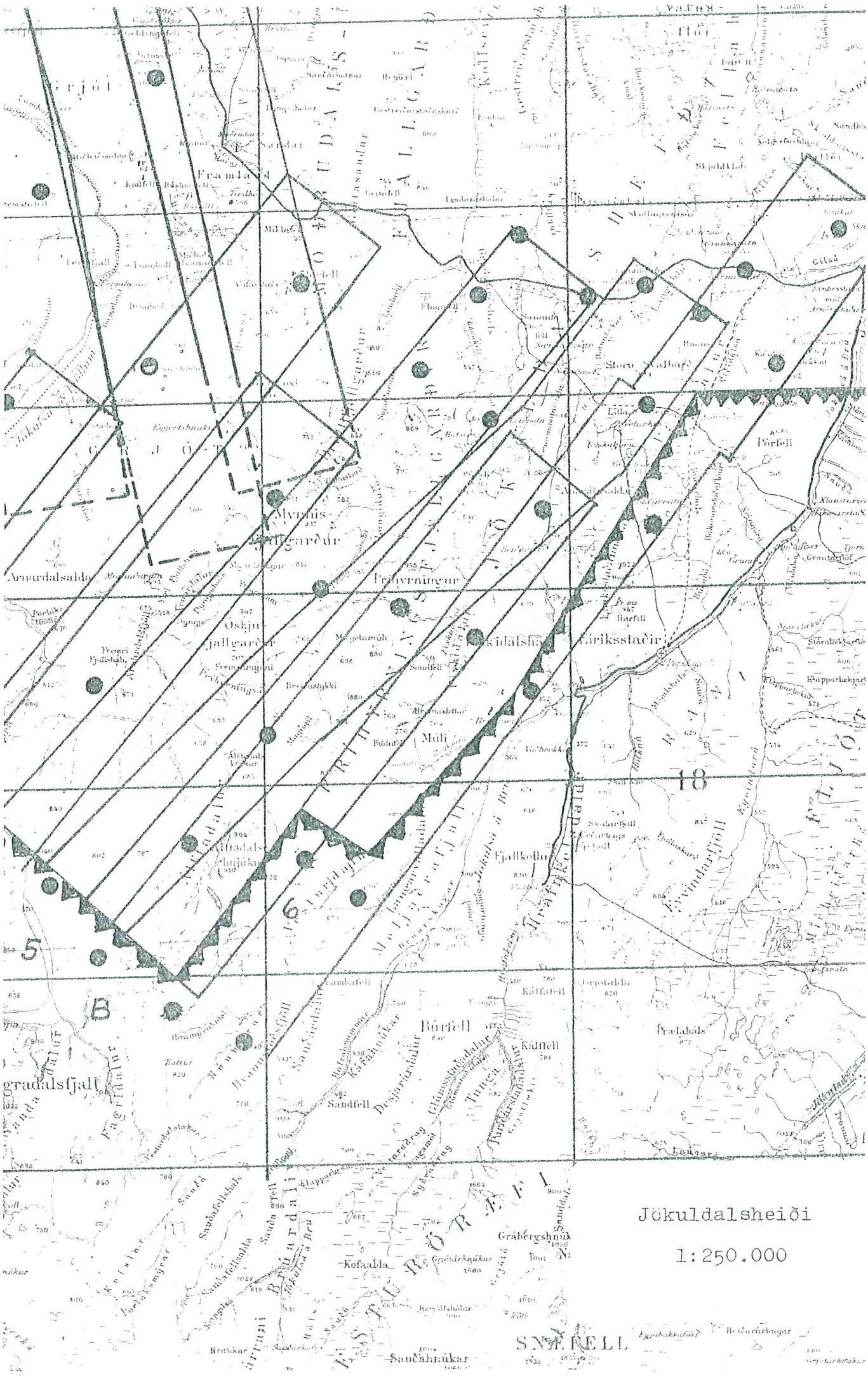
All photos except in strip 5A were taken with the old WILD RC-5 camera (photo size 18x18 cm, focal length 115,06 mm). The photos in strip 5A were taken with a new WILD RC-10 camera (photo size 23x23 cm, focal length 151,78 mm). The photos are as follows:

4	1443 - 1451 B	
5	1230 - 1240 B	
(5A	9989 - 9999 F)	
B	5307 - 5331 B	(odd numbers only)
6	1186 - 1205 B	

Coordinates of ground control points

The list of coordinates of ground control points is on page 04. The intended use of a ground control point in the mapping is indicated by two digits in the second column of the list of coordinates:

- 10 Coordinates and elevation to be used in mapping.
- 20 Only coordinates to be used in mapping.
- 30 Elevation to be used in mapping. Location from sketch.
- 40 Only elevation to be used in mapping. Location by coordinates.



Jökuldalsheiði
1:250.000

SNERELLI

GROUND CONTROL

NUMBER		Y-NORTH	X-WEST	ELEV.	NOTE	NAME
9676	20	504359.83	394366.99	671.81		9676/20
9676	40	504305.61	394338.87	675.67		9676/40
9677	20	510825.85	388794.43	589.78		9677/20
9677	40	510807.23	388812.28	590.48		9677/40
9678	20	515037.16	385726.10	533.77		9678/20
9678	40	515048.06	385739.85	532.12		9678/40
9696	20	531657.76	373650.09	716.22		9696/20
9696	40	531663.26	373660.47	714.92		9696/40
9697	20	533784.41	370709.28	593.88		9697/20
9697	40	533748.60	370725.10	592.33		9697/40
9707	20	482756.31	452207.03	794.43		9707/20
9707	40	482763.87	452217.89	794.03		9707/40
9752	20	501553.36	408518.17	704.58		9752/20
9752	40	501539.48	408510.12	703.28		9752/40
9754	20	498417.90	404755.60	739.41		9754/20
9754	40	498414.87	404745.07	739.01		9754/40
9755	20	496723.64	400968.46	669.24		9755/20
9755	40	496726.98	400974.72	668.74		9755/40
9758	20	506182.37	397879.11	829.42		9758/20
9758	40	506180.87	397874.61	828.77		9758/40
9021	10	534043.54	376989.83	660.56		N21/10
9022	21	529583.76	379949.02	0.0		N22/21
9022	22	529590.60	379956.96	0.0		N22/22
9022	30	529573.17	379948.14	625.15		N22/30
9023	10	535546.34	383263.12	565.82		N23/10
9024	10	535696.82	388616.26	572.54		N24/10
9025	10	538207.05	386654.24	570.88		N25/10
9026	10	530991.82	391799.55	711.53		N26/10
9027	10	532569.41	383198.43	555.09		N27/10
9028	10	526598.81	387549.23	572.92		N28/10
9029	10	528761.49	387923.24	635.03		N29/10
9030	10	517261.25	388282.58	597.60		N30/10
9031	10	518409.60	390234.77	552.86		N31/10
9032	10	518737.14	392651.83	696.28		N32/10
9033	10	519882.55	397101.40	587.86		N33/10
9034	10	536618.13	374332.08	528.51		N34/10
9035	10	535647.96	379987.28	577.50		N35/10
9036	10	523545.63	385304.74	560.19		N36/10
		0.0	0.0	552.44		MP06
		0.0	0.0	576.48		MP07
		0.0	0.0	616.75		MP08
		0.0	0.0	242.82		MP21
		0.0	0.0	217.13		MP22
		0.0	0.0	587.05		MP23
		0.0	0.0	621.68		MP24

TRIANGULATION POINTS

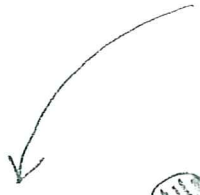
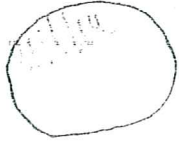
NUMBER	Y-NORTH	X-WEST	ELEV.	NOTE	NAME	DESCRIPTION
176	538528.03	369702.10	794.32	2BV	SKJL	SKJÖLDOLFSSTADAHNUKUR
7010	536659.30	377806.85	652.74	4B	7010	LANGAHLID
7011	533573.74	385510.86	733.48	4B	7011	SANAUTAFELL
7012	527705.16	384949.91	605.43	4B	7012	GRUNNAVATNSALDA
7013	518708.46	385874.23	637.09	4B	7013	FISKIDALSHALS
7014	511059.46	385315.34	663.10	4B	7014	VADBREKKA, VESTAN

BENCHMARKS (FM) AND WATER LEVEL (VB)

NUMBER	Y-NORTH	X-WEST	ELEV.	NOTE	NAME	DESCRIPTION
			522.78		FM-A	FMV/ANAVATN
	525370.02	380137.34	560.74		FM-G	FMV/GRIPDEILD
			525.60		FM-S	FMV/SANAUTAVATN
			523.62		VB-S	SANAUTAVATN
			519.80		FM-T	FMV/PVERARVATN
			585.45		VB-P	FMV/PRIHYRNINGSVATN
			589.42		FM-P	PRIHYRNINGSVATN
			340.41		V164	FMV-164 VID BRU

MP06

1497B-021-035



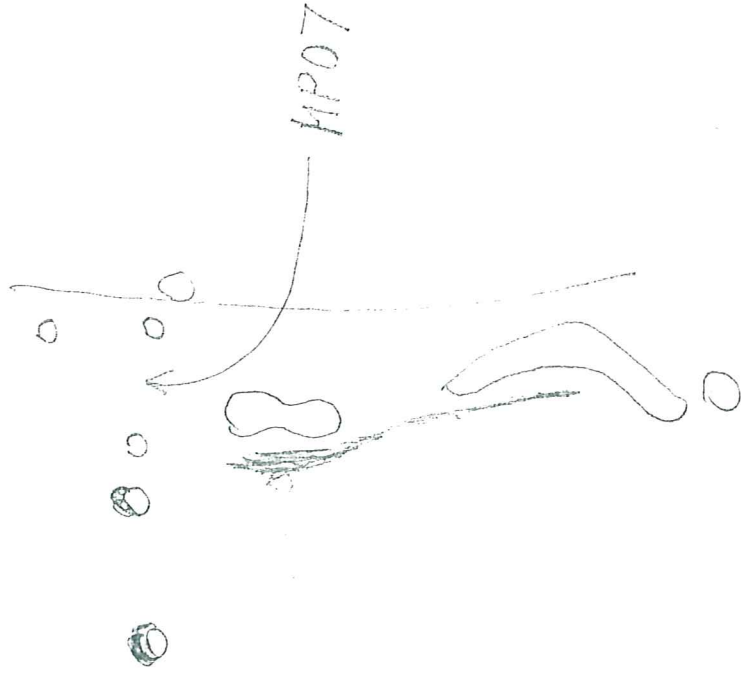
MP06



Midway between two grass-covered hemispheres

MP07

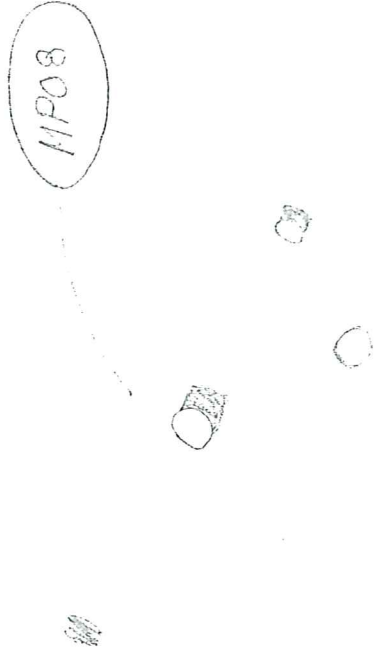
1451B-037-137



Midway between two boulders.
M7 = MP07

MP08

1239B-157-093



2 meters from big boulder.
Ground is very flat.

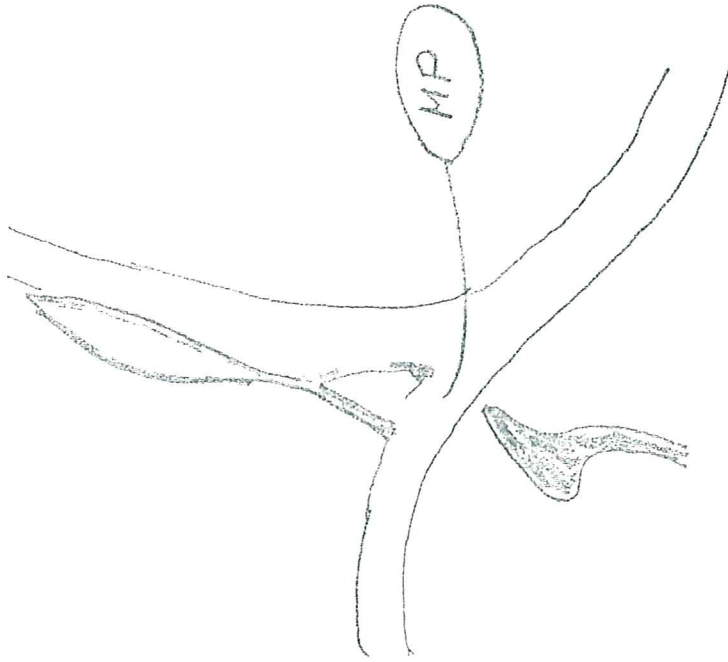
MP22

1204-B-153-031



MP21

1203B-173-031



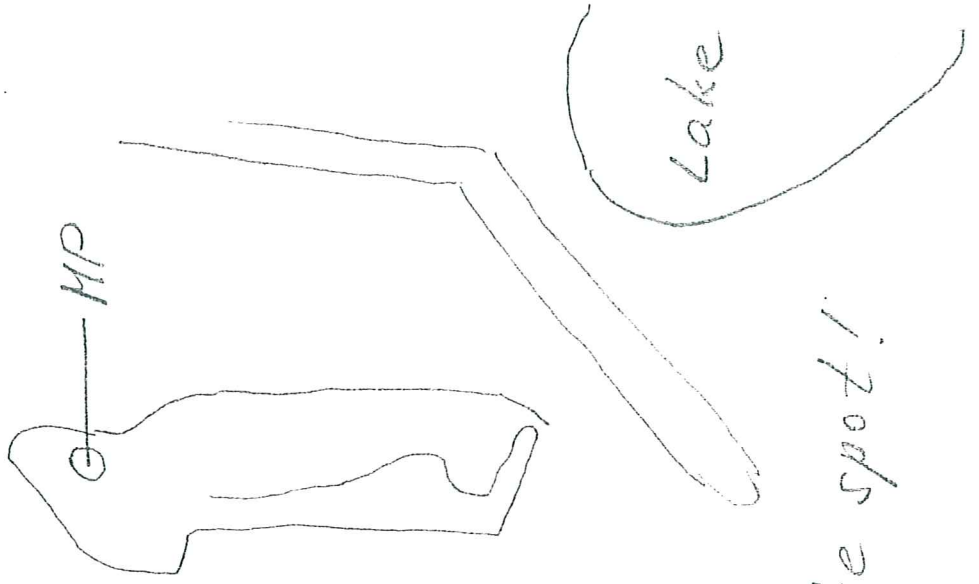
MP23

1203B-157-127



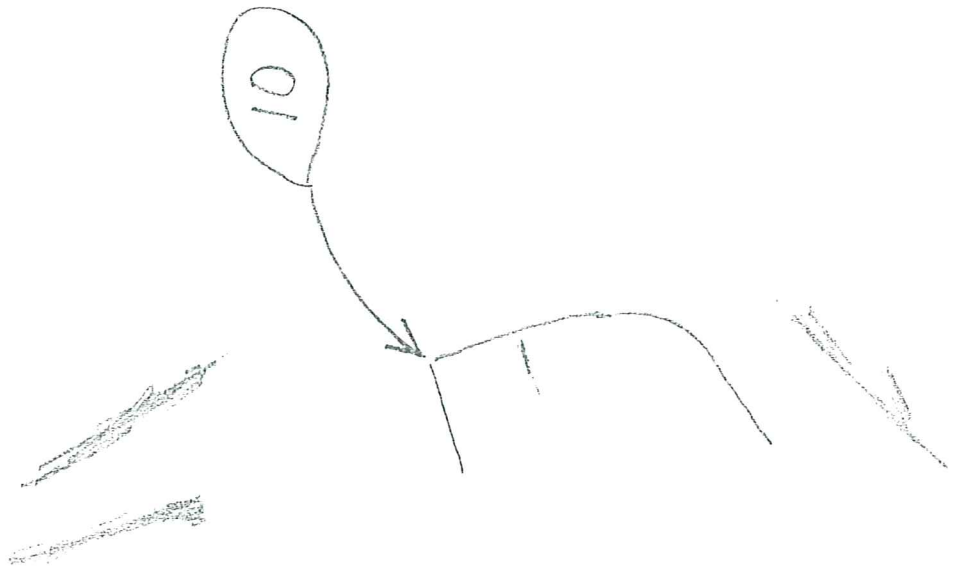
MP24

1193B-102-136



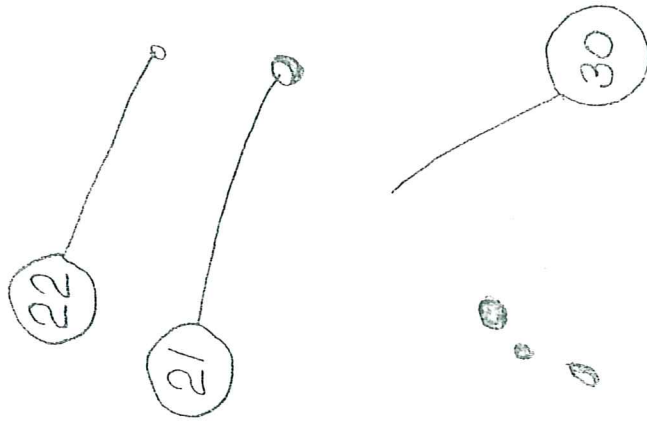
N/21

1202B-069-167



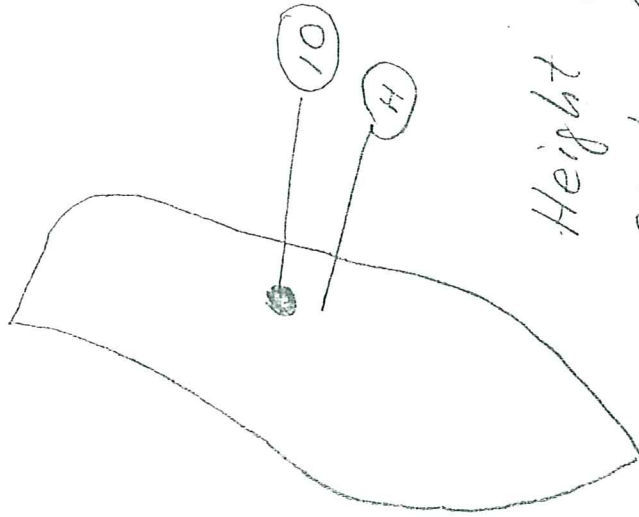
N/22

1232B-165-124



N24

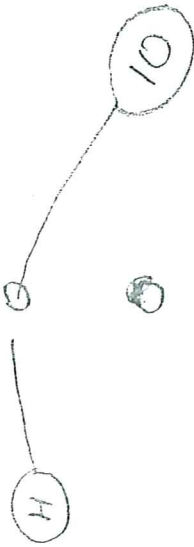
← 1444B-092-030



Height 2 m
east of
boulder.

N23

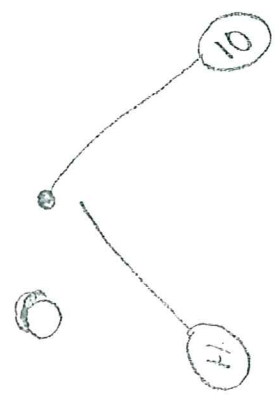
← 1444B-013-146



Height 2 m south of
boulder.

N25

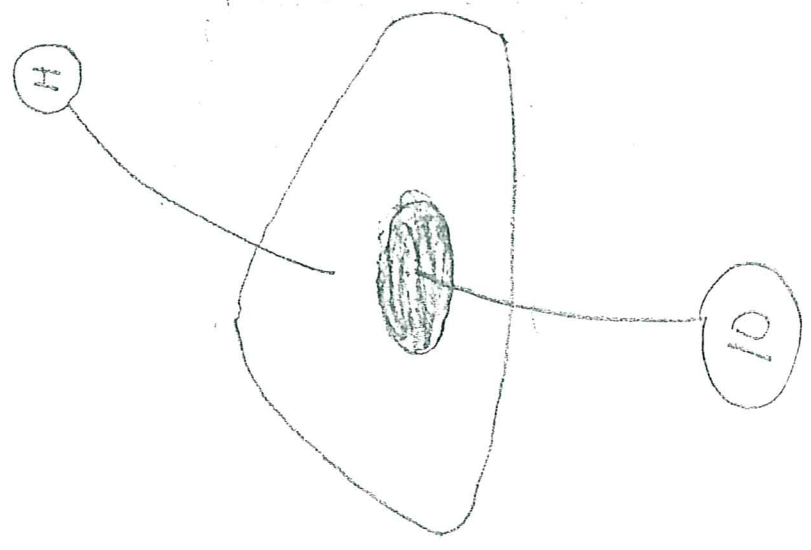
← 1444B-008-033



Height 2 m east
of boulder

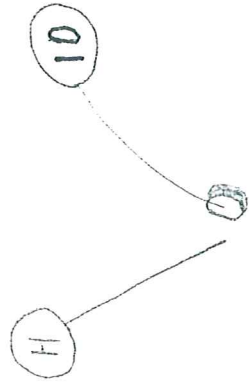
N26

← 1445B-165-038



N27

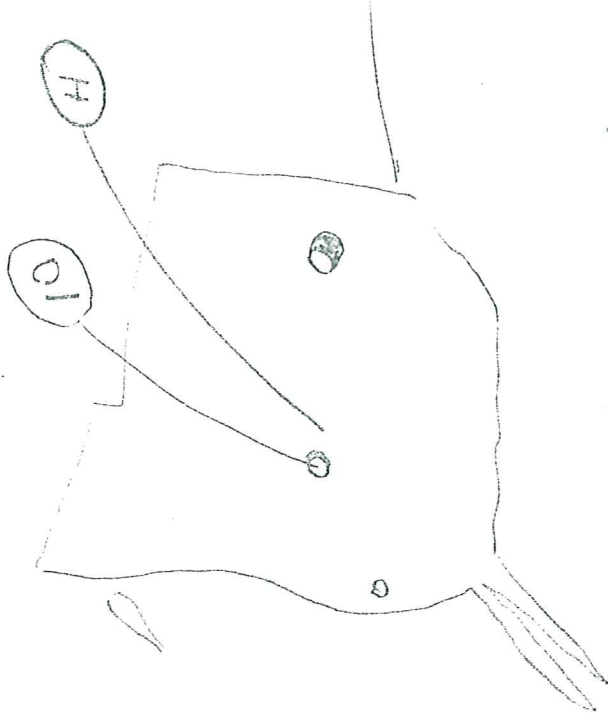
1232B-092-012



Height 2 m south
of boulder at
roadside.

N28

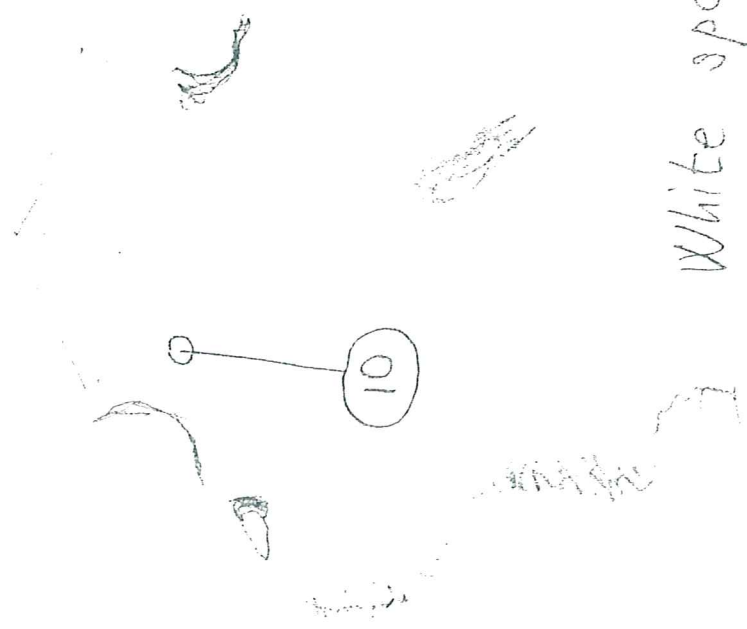
1235B-094-039



Height on ground 2 m
north of boulder
(in line between
the two boulder-s)

N29

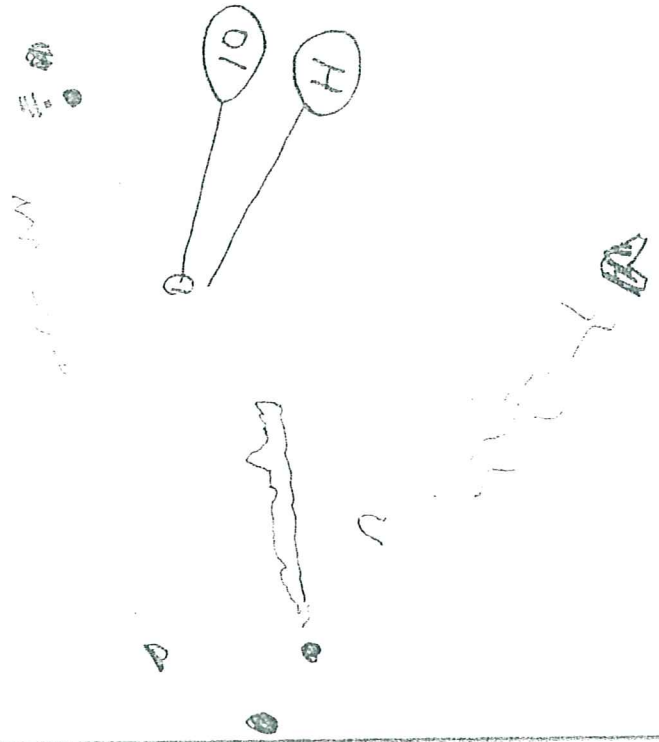
← 1445B-158-027



White spot

N30

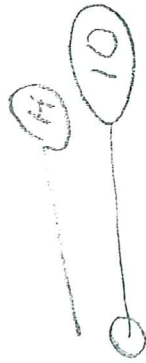
5325B-085-033 →



Height on ground 2m east of boulder

N31

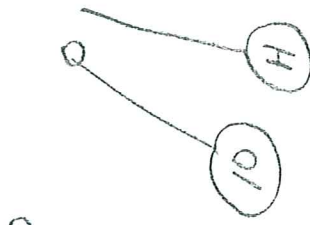
1195B-088-162



Height on ground
2 m west of boulder,

N32

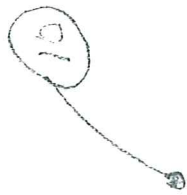
5325B-052-147



Height 2 m from big
boulder opposite second
big boulder.

N33

1239B-131-027



Height on ground 2m
east of Fock.

N34

1203B-087-156

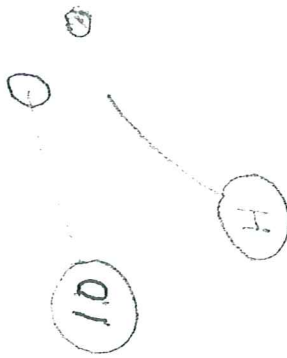


Elevation of water
level in pit

N35

← 1231B-044-024

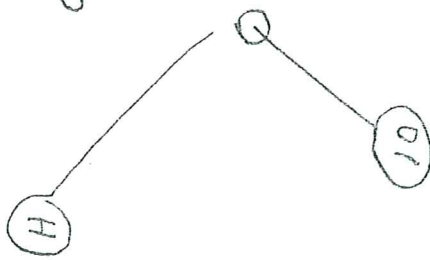
○
○



Elevation on ground
5 meters from big
boulder opposite pair
of boulders.

N36

← 1235B-104-135

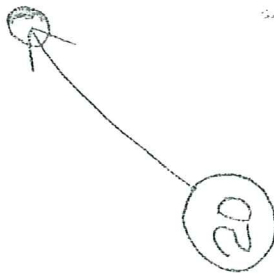


Height 2 m
West of big
boulder

9677

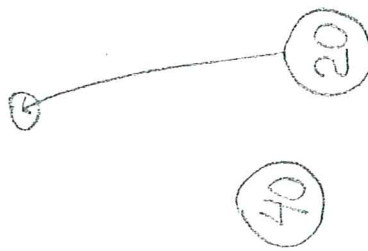
0408B-029-028

40



9676

0410A-112-030



40

20



9678

1399B-015-155 →

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o o

(40)

o

↗

(20)

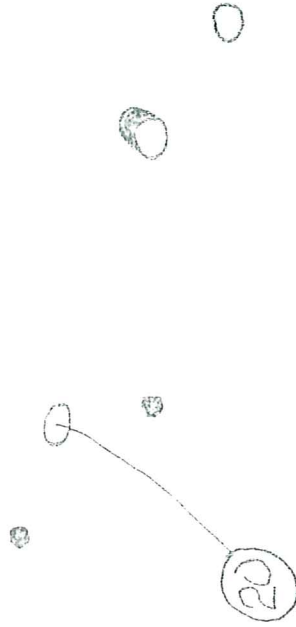
o

338

9696

1406B-056-122

(40)



9697

1412B-106-145

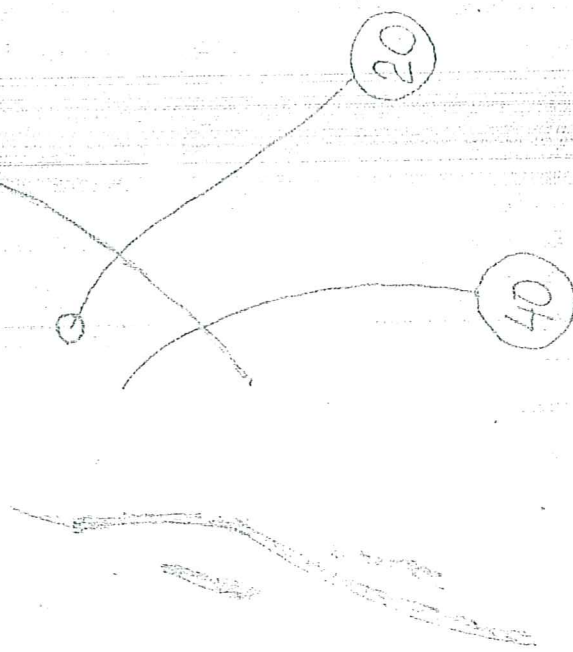
(40)

(20)



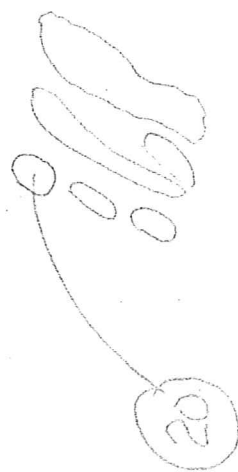
9752

1247B:120:140



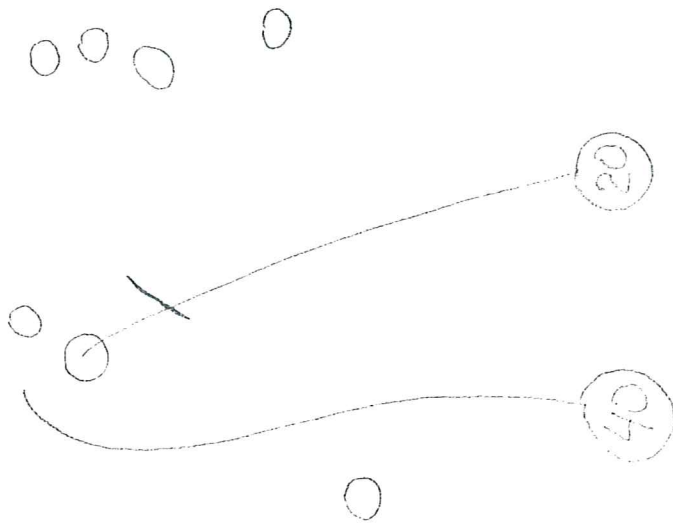
9707

1562:011:162



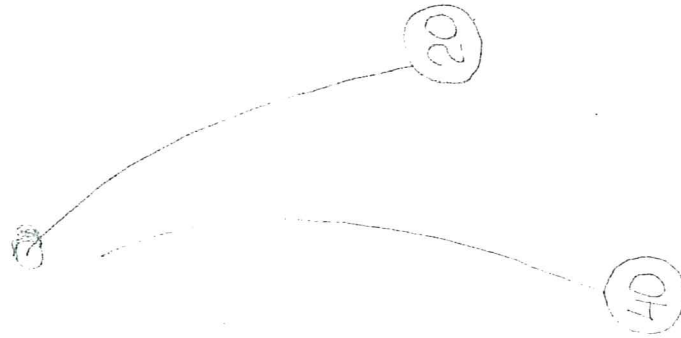
9755

11863:122:033



9754

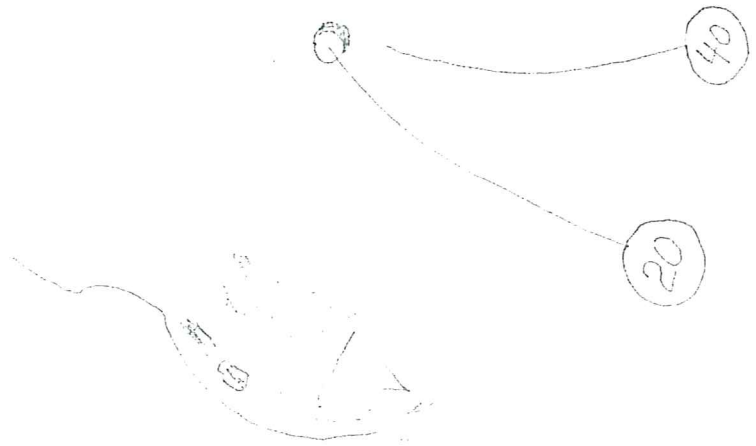
11863:094:133

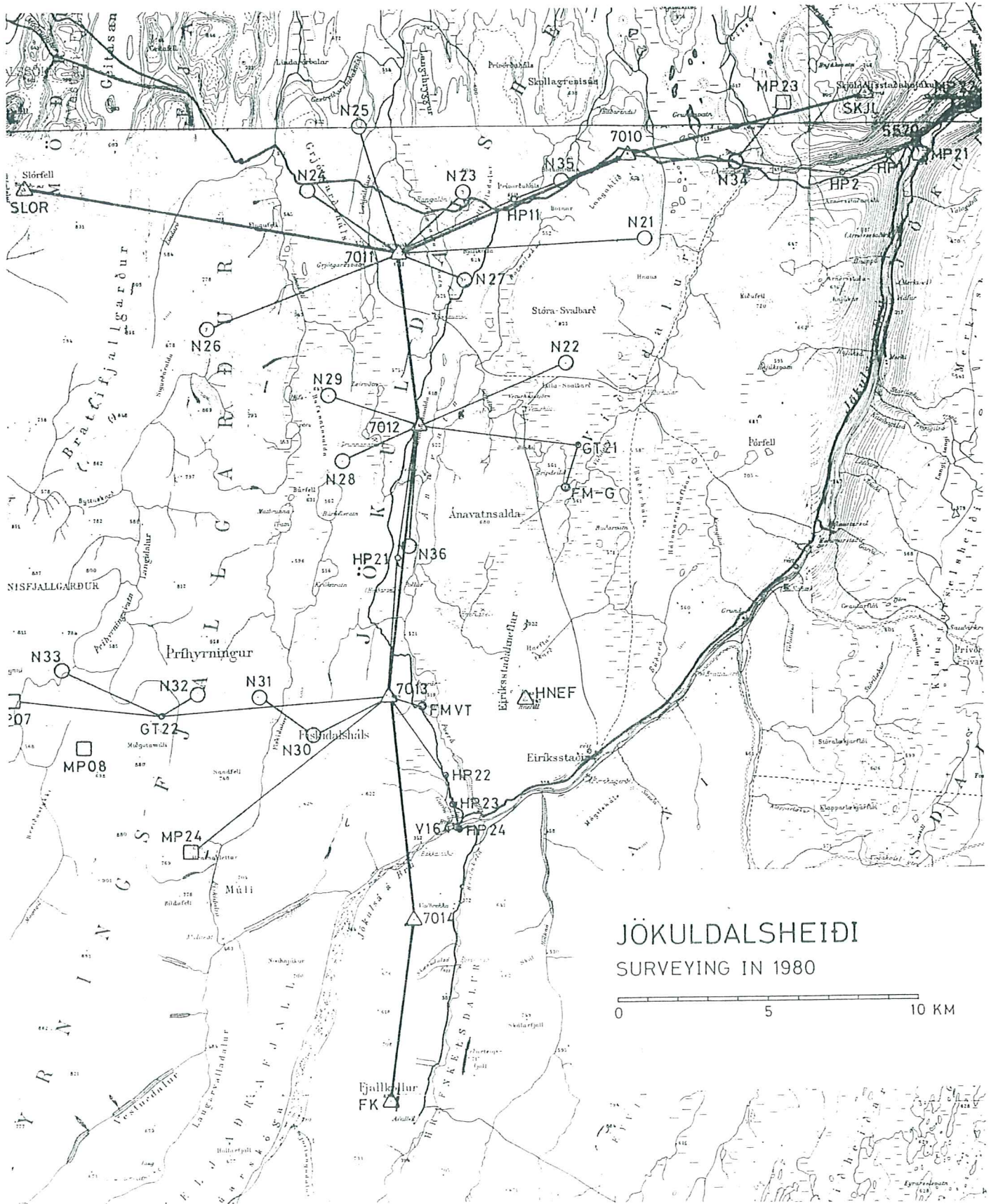




9758

↑  
1/908:088:131







INPUT GRID

APPROXIMATE COORDINATES

| 4 9 51 |           |           |        |      |       |                     |      |  |  |  |  |  |  |  |
|--------|-----------|-----------|--------|------|-------|---------------------|------|--|--|--|--|--|--|--|
| 167    | 536020.41 | 397710.31 | 845.50 | *2BV | S LCR | S LCRFELL           | OS30 |  |  |  |  |  |  |  |
| 176    | 538528.03 | 369702.10 | 794.30 | *2BV | SKJL  | SKJCLECLFSSTADAHNUR | OS74 |  |  |  |  |  |  |  |
| 175    | 518399.84 | 381311.29 | 950.00 | *2BV | HNEF  | HNEFILL             | OS74 |  |  |  |  |  |  |  |
| 5438   | 504742.45 | 386603.72 | 834.65 | *3B  | FK    | FJALLKOLLUR         | OS74 |  |  |  |  |  |  |  |
| 7010   | 536659.36 | 377806.92 | 652.06 | *    | 7010  |                     |      |  |  |  |  |  |  |  |
| 7011   | 533573.88 | 385510.91 | 732.81 | *    | 7011  |                     |      |  |  |  |  |  |  |  |
| 7012   | 527705.31 | 384950.01 | 604.80 | *    | 7012  |                     |      |  |  |  |  |  |  |  |
| 7013   | 518708.41 | 385874.05 | 637.02 | *    | 7013  |                     |      |  |  |  |  |  |  |  |
| 7014   | 511059.43 | 385315.25 | 603.12 | *    | 7014  |                     |      |  |  |  |  |  |  |  |

|      |        |        |       |
|------|--------|--------|-------|
| ECC  | -1.937 | -2.647 | 2     |
| ECC  | -1.615 | 3.811  | 1     |
| DIST | -1.212 | -0.943 | 0.001 |
| DIST | -0.394 | -0.902 | 0.001 |
| DIST | -1.390 | -0.619 | 0.000 |
| ECC  | -1.616 | 3.812  | 1     |
| DIST | -0.506 | -1.541 | 0.002 |
| DIST | -2.278 | -0.757 | 0.000 |
| DIST | -0.044 | -0.782 | 0.000 |
| DIST | -0.055 | -0.881 | 0.001 |

|       |           |
|-------|-----------|
| 0.124 | 3317.361  |
| 0.109 | 3293.894  |
| 0.058 | 5895.314  |
| 0.164 | 12445.717 |
| 0.002 | 6447.046  |
| 0.015 | 7669.364  |
| 0.049 | 9044.029  |

\*\* JCKULDALSHEIDI 1980 \*\*

ADJUSTED COORDINATES

| CORRECTION | MEAN ERROR | NUMBER | Y-NORTH    | X-WEST     |
|------------|------------|--------|------------|------------|
| -0.064     | 0.076      | 7010   | 536659.296 | 377806.854 |
| -0.144     | 0.049      | 7011   | 533573.720 | 385510.856 |
| -0.154     | 0.046      | 7012   | 527705.156 | 384949.912 |
| 0.047      | 0.038      | 7013   | 518708.457 | 385874.231 |
| 0.034      | 0.029      | 7014   | 511059.464 | 385315.339 |

MAX CORR 0.131    MAX ERR 0.116    ERROR IN DIRECTION 3.319 SEC 10.245 CC

\*\* JKULCAL SHEIDI 1980 \*\*

ADJUSTED DIRECTIONS AND DISTANCES

| STAT | NUMB | GRADS     | ERRCR  | NAME | D   | M  | SEC  | NUMB | DISTANCE | NAME |
|------|------|-----------|--------|------|-----|----|------|------|----------|------|
| 176  | ECC  | -1.937    | -2.647 | SKJL |     |    |      |      |          |      |
|      | 7011 | 330.67676 | -2.00  | 7011 | 342 | 36 | 32.7 | 7011 | 16568.84 | 7011 |
|      | 7010 | 385.59265 | 1.14   | 7010 | 347 | 2  | 0.2  | 7010 | 8319.55  | 7010 |
|      | 167  | 394.32108 | 0.86   | SLOR | 354 | 53 | 20.3 | 167  | 28122.71 | SLOR |
| 7010 |      |           |        | 7010 |     |    |      |      |          |      |
|      | 176  | 165.57320 | 4.04   | SKJL | 167 | 0  | 57.2 | 176  | 8317.40  | SKJL |
|      | 7011 | 375.74821 | -4.04  | 7011 | 338 | 10 | 24.2 | 7011 | 8298.94  | 7011 |
| 7011 |      |           |        | 7011 |     |    |      |      |          |      |
|      | 176  | 180.66578 | 0.17   | SKJL | 162 | 25 | 57.1 | 176  | 16566.89 | SKJL |
|      | 7010 | 175.74781 | -0.17  | 7010 | 158 | 10 | 22.9 | 7010 | 8298.94  | 7010 |
| 7011 |      |           |        | 7011 |     |    |      |      |          |      |
|      | 7012 | 293.93334 | -5.72  | 7012 | 264 | 32 | 24.0 | 7012 | 5895.33  | 7012 |
|      | 7013 | 301.55590 | 5.72   | 7013 | 271 | 24 | 1.1  | 7013 | 14369.72 | 7013 |
| 7011 |      |           |        | 7011 |     |    |      |      |          |      |
|      | 176  | 180.66578 | -3.41  | SKJL | 162 | 25 | 57.1 | 176  | 16566.89 | SKJL |
|      | 175  | 282.81093 | 2.01   | HNEF | 254 | 31 | 47.4 | 175  | 15744.32 | HNEF |
|      | 7013 | 301.55590 | 6.36   | 7013 | 271 | 24 | 1.1  | 7013 | 14869.72 | 7013 |
|      | 167  | 12.60093  | -4.96  | SLOR | 11  | 20 | 27.0 | 167  | 12442.38 | SLOR |
| 167  | ECC  | -1.615    | 3.811  | SLGF |     |    |      |      |          |      |
|      | 7011 | 212.58838 | -3.33  | 7011 | 191 | 19 | 46.3 | 7011 | 12445.80 | 7011 |
|      | 175  | 252.27431 | 2.33   | HNEF | 227 | 2  | 48.6 | 175  | 24072.40 | HNEF |
| 7012 |      |           |        | 7012 |     |    |      |      |          |      |
|      | 7013 | 306.51777 | 1.93   | 7013 | 275 | 51 | 57.6 | 7013 | 9044.06  | 7013 |
|      | 7011 | 93.93326  | -1.93  | 7011 | 84  | 32 | 24.1 | 7011 | 5895.33  | 7011 |
| 5438 |      |           |        | FK   |     |    |      |      |          |      |
|      | 7013 | 103.32224 | -2.21  | 7013 | 92  | 59 | 24.1 | 7013 | 13985.05 | 7013 |
|      | 7014 | 112.80845 | 5.75   | 7014 | 101 | 31 | 39.4 | 7014 | 6447.06  | 7014 |
|      | 175  | 123.53558 | -3.54  | HNEF | 111 | 10 | 55.3 | 175  | 14646.93 | HNEF |

\*\* JÖKKULDALSHEIÐI 1980 \*\*

ADJUSTED DIRECTIONS AND DISTANCES

| STAT          | NUMB | GRADS     | ERROR  | NAME     | D       | M   | SEC  | NUMB     | DISTANCE  | NAME |
|---------------|------|-----------|--------|----------|---------|-----|------|----------|-----------|------|
| 7013          |      |           |        | 7013     |         |     |      |          |           |      |
|               | 7011 | 101.55586 | -2.08  | 7011     | 91      | 24  | 1.0  | 7011     | 14869.72  | 7011 |
|               | 7014 | 295.35664 | 0.17   | 7014     | 265     | 49  | 15.5 | 7014     | 7669.38   | 7014 |
|               | 5438 | 303.32226 | 1.91   | FK       | 272     | 59  | 24.1 | 5438     | 13985.05  | FK   |
| 7014          |      |           |        | 7014     |         |     |      |          |           |      |
|               | 5438 | 312.80846 | 0.90   | FK       | 281     | 31  | 39.4 | 5438     | 6447.06   | FK   |
|               | 7013 | 55.35664  | -0.90  | 7013     | 85      | 49  | 15.5 | 7013     | 7669.38   | 7013 |
| 7013          |      |           |        | 7013     |         |     |      |          |           |      |
|               | 7011 | 101.55586 | 6.33   | 7011     | 91      | 24  | 1.0  | 7011     | 14869.72  | 7011 |
|               | 7012 | 106.51773 | -6.33  | 7012     | 95      | 51  | 57.4 | 7012     | 9044.06   | 7012 |
| 176           |      |           |        | SKJL     |         |     |      |          |           |      |
|               | 7010 | -0.042 M  | -13.96 | 7010     | 0.52360 | -03 |      | 7010     | 8317.403  | 7010 |
| 7010          |      |           |        | 7010     |         |     |      |          |           |      |
|               | 7011 | -0.042 M  | -13.97 | 7011     | 0.52360 | -03 |      | 7011     | 8298.935  | 7011 |
| 7012          |      |           |        | 7012     |         |     |      |          |           |      |
|               | 7011 | -0.014 M  | -5.87  | 7011     | 0.68300 | -03 |      | 7011     | 5895.327  | 7011 |
| 167           |      |           |        | 7012     |         |     |      |          |           |      |
|               | ECC  | -1.616    | 3.812  | SLOF     |         |     |      |          |           |      |
|               | 7011 | -0.086 M  | -20.49 | 7011     | 0.37400 | -03 |      | 7011     | 12445.803 | 7011 |
| 7014          |      |           |        | 7014     |         |     |      |          |           |      |
|               | 5438 | -0.015 M  | -6.14  | FK       | 0.65450 | -03 |      | 5438     | 6447.061  | FK   |
| 7014          |      |           |        | 7014     |         |     |      |          |           |      |
|               | 7013 | -0.021 M  | -7.39  | 7013     | 0.56100 | -03 |      | 7013     | 7669.385  | 7013 |
| 7012          |      |           |        | 7012     |         |     |      |          |           |      |
|               | 7013 | -0.027 M  | -8.53  | 7013     | 0.49090 | -03 |      | 7013     | 9044.056  | 7013 |
| MAXIMUM ERROR |      | DIRECTION | 6.4 CC | DISTANCE | 20.5 CC |     |      | LOCATION | 0.0 CC    |      |

PROGRAM GTPOL

CONFORMAL CONICAL PROJECTION

| 000  | 6.600     | JOKULDALSHEIDI 1980 |        |      |      |                       |      |  |  |  |  |
|------|-----------|---------------------|--------|------|------|-----------------------|------|--|--|--|--|
| 167  | 536020.41 | 397710.31           | 845.50 | *2BV | SLOR | SLORFELL              | CS80 |  |  |  |  |
| 176  | 538528.03 | 369702.10           | 794.32 | *2BV | SKJL | SKJOLDOLFSSTADAHNUKUR | OS74 |  |  |  |  |
| 175  | 518399.84 | 381311.29           | 950.03 | *2BV | HNEF | HNEFILL               | OS74 |  |  |  |  |
| 5438 | 504742.45 | 386603.72           | 834.57 | *3B  | FK   | FJALLKOLLUR           | CS74 |  |  |  |  |
| 5461 | 525802.44 | 373370.30           | 708.57 | *3B  | THO  | THORFELL              | CS74 |  |  |  |  |
| 7010 | 536659.30 | 377806.85           | 652.74 | *4B  | 7010 | LANGAHLID             | OS81 |  |  |  |  |
| 7011 | 533573.74 | 385510.86           | 733.48 | *4B  | 7011 | SÆNAUTAFELL           | OS81 |  |  |  |  |
| 7012 | 527705.16 | 384949.91           | 605.43 | *4B  | 7012 | GRUNNAVATNSALDA       | OS81 |  |  |  |  |
| 7013 | 518708.46 | 385874.23           | 637.09 | *4B  | 7013 | FISKIDALSHALS         | OS81 |  |  |  |  |
| 7014 | 511059.46 | 385315.34           | 663.10 | *4B  | 7014 | VADBBREKKA, VESTAN    | OS81 |  |  |  |  |
| 0    | 0.0       | 0.0                 | 247.26 | 5570 |      |                       |      |  |  |  |  |
| 0    | 0.0       | 0.0                 | 340.41 | V164 |      |                       |      |  |  |  |  |
| 0    | 0.0       | 0.0                 | 576.48 | MP07 |      |                       |      |  |  |  |  |
| 9999 |           |                     |        |      |      |                       |      |  |  |  |  |











## PROGRAM GTAUXIL

01 6.600  
0 518040.22 393812.75 731.55 GT22  
0 0.0 0.0 242.82 MP21  
0 0.0 0.0 217.13 MP22  
0 534005.56 376968.01 661.23 N21  
0 529573.17 379948.14 625.15 N22  
0 526853.90 379697.58 579.99 GT21  
0 525370.02 380137.34 560.74 FM-G  
0 0.0 0.0 522.78 ANAV  
0 535546.34 383263.12 565.82 N23  
0 535695.35 388614.11 572.54 N24  
0 538204.18 386653.53 570.88 N25  
0 530991.82 391799.55 711.53 N26  
0 532569.41 383198.43 555.09 N27  
0 0.0 0.0 525.60 FM-S  
0 526599.95 387546.56 572.92 N28  
0 528761.49 387923.24 635.03 N29  
0 517261.25 388282.58 598.10 N30  
0 518409.60 390234.77 552.86 N31  
0 0.0 0.0 621.68 MP24  
0 518040.22 393812.75 731.55 GT22  
0 518738.01 392650.37 656.28 N32  
0 0.0 0.0 576.51 MP07  
0 519881.65 397099.79 587.86 N33  
0 536618.13 374332.08 528.51 N34  
0 0.0 0.0 587.05 MP23  
0 535647.96 379987.28 577.50 N35  
0 0.0 0.0 628.90 HP11  
0 523545.63 385304.74 560.19 N36  
0 0.0 0.0 519.80 FMVT  
0 0.0 0.0 595.22 HP21  
0 0.0 0.0 350.91 HP24  
0 0.0 0.0 444.54 HP23  
0 0.0 0.0 527.85 HP22  
0 0.0 0.0 348.85 HP1  
0 0.0 0.0 473.66 HP2  
0 536659.30 377806.85 652.74 7010  
0 527705.16 384949.91 605.43 7012  
0 533573.74 385510.86 733.48 7011  
0 511059.46 385315.34 663.10 7014

PROGRAM GTAUXIL

7013

518708.46 385874.23 637.05

0  
9999

|     |      |              |                     |              |               |      |                 |                                                                                  |                                  |
|-----|------|--------------|---------------------|--------------|---------------|------|-----------------|----------------------------------------------------------------------------------|----------------------------------|
| N21 | 7011 | -100         | 700168.0<br>0.0     | -101         | 4380.0<br>0.0 | -103 | -67.0<br>0.0    | 0 10 534043.54 376985.83                                                         | 66C.56 N21                       |
| N22 | 7012 | -210<br>-221 | 1174871.0<br>1954.0 | -211<br>-309 | 1063.0<br>0.0 | -220 | 929272.0<br>0.0 | 0 21 529583.76 375949.02<br>0 22 529590.60 379956.96<br>0 30 529573.17 379948.14 | 0.0 N22<br>0.0 N22<br>625.15 N22 |
| N23 |      | -109         | 0.0<br>0.0          |              | 0.0<br>0.0    |      | 0.0<br>0.0      | 0 10 535546.34 383263.12                                                         | 565.82 N23                       |
| N24 | 7011 | -100         | 2000000.0<br>0.0    | -101         | 260.0<br>0.0  | -103 | 0.0<br>0.0      | 0 10 535696.82 388616.26                                                         | 572.54 N24                       |
| N25 | 7011 | -100         | 2000000.0<br>0.0    | -101         | 296.0<br>0.0  | -103 | 0.0<br>0.0      | 0 10 538207.05 386654.24                                                         | 570.88 N25                       |
| N26 |      | -109         | 0.0<br>0.0          |              | 0.0<br>0.0    |      | 0.0<br>0.0      | 0 10 530991.82 391799.55                                                         | 711.53 N26                       |
| N27 |      | -109         | 0.0<br>0.0          |              | 0.0<br>0.0    |      | 0.0<br>0.0      | 0 10 532569.41 383198.43                                                         | 555.09 N27                       |
| N28 | 7012 | -100         | 2000000.0<br>0.0    | -101         | 290.0<br>0.0  | -103 | 0.0<br>0.0      | 0 10 526598.81 387549.23                                                         | 572.92 N28                       |
| N29 |      | -109         | 0.0<br>0.0          |              | 0.0<br>0.0    |      | 0.0<br>0.0      | 0 10 528761.49 387923.24                                                         | 635.03 N29                       |
| N30 | 7013 | -100         | 0.0<br>0.0          | -101         | 0.0<br>0.0    | -103 | -50.0<br>0.0    | 0 10 517261.25 388282.58                                                         | 597.60 N30                       |
| N31 |      | -109         | 0.0<br>0.0          |              | 0.0<br>0.0    |      | 0.0<br>0.0      | 0 10 518409.60 390234.77                                                         | 552.86 N31                       |

