



Bergvesenet

Postboks 3021, 7002 Trondheim

Rapportarkivet

Bergvesenet rapport nr BV 510	Intern Journal nr	Internt arkiv nr	Rapport lokalisering Trondheim	Gradering Åpen
Kommer fra ..arkiv Falconbridge	Ekstern rapport nr Sul 409-76-17	Oversendt fra Sulfidmalm A/S	Fortrolig pga	Fortrolig fra dato:
Tittel Ground surveys at Suolojavre 1976, Masi.				
Forfatter E Kreivi, K Taipale		Dato 1976	Bedrift Sulfidmalm A/S	
Kommune Kautokeino	Fylke Finnmark	Bergdistrikt Finnmark	1: 50 000 kartblad 19343 19334	1: 250 000 kartblad Nordreisa
Fagområde Geologi, Geofysikk	Dokument type Rapport	Forekomster Suolojavre		
Råstofftype Malm/metall	Emneord Cu Zn Pb			
Sammendrag Området ble plukket ut på basis av helikoptergeofysiske målinger. Tykt overdekke hidret det geologiske karteringsarbeidet mende geokjemiske og geofysiske anomaliene ser ut til å passe inn med de mineraliserte grafittiske lagene i sure vulkanitter slik som i områdene Havggajavre og Unna Vuovdas. Minerasliseringene består hovedsaklig av magnetkis med litt svovelkis, men bare med spor av kobberkis og av og till litt sinkblende. Beste analyseresultat var 0,40% Cu og 3,9% Zn i hvert sitt håndstykke. Blokkleting resulterte i blokker med Zn og Pb ved bredden av Suolojavre. Bunnmorene prøvetaging foreslås hvis prosjektet føres videre.				

FOR FALCONBRIDGE NIKKELVERK A/S
A/S SULFIDMALM

Project 905-17

Ground surveys at Suolajavrre
in 1976, Masi

By

E. Kreivi

K. Taipale

A/S SULFIDMALM
INTER-OFFICE MEMORANDUM

Date: 5th May, 1977 ✓
To: Falconbridge Nikkelverk A/S
cc: W. D. Harrison, H. T. Berry, R. Jahnsen, R. B. Band
E. Kreivi, Bergmester Vasshaug
From: J. B. Gammon
Subject:

Rept. No. 409/76/17. Suolojavrrre Grid, Masi.

Please find attached our summary of work carried out on the Suolojavrrre Grid during 1976. This area was selected on the basis of helicopter EM anomalies in an area with scattered geochemical anomalies. Overburden cover severely hampered mapping and prospecting but boulders containing up to 0.4% Cu and 3.9% Zn were discovered. Geophysical anomalies seem to be associated with the graphitic schist horizons of regional extent. Bedrock-till interface geochemistry would be interesting to try in this area should we decide to pursue the search further.



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EXPL. AVD.					
MIN. AVD.					
REGNSK. AVD.					
PRISCHALDIR.					
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ANALYTICAL DATA:
 1. 100% 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21, 22, 23, 24, 25, 26, 27, 28, 29, 30, 31, 32, 33, 34, 35, 36, 37, 38, 39, 40, 41, 42, 43, 44, 45, 46, 47, 48, 49, 50, 51, 52, 53, 54, 55, 56, 57, 58, 59, 60, 61, 62, 63, 64, 65, 66, 67, 68, 69, 70, 71, 72, 73, 74, 75, 76, 77, 78, 79, 80, 81, 82, 83, 84, 85, 86, 87, 88, 89, 90, 91, 92, 93, 94, 95, 96, 97, 98, 99, 100, 101, 102, 103, 104, 105, 106, 107, 108, 109, 110, 111, 112, 113, 114, 115, 116, 117, 118, 119, 120, 121, 122, 123, 124, 125, 126, 127, 128, 129, 130, 131, 132, 133, 134, 135, 136, 137, 138, 139, 140, 141, 142, 143, 144, 145, 146, 147, 148, 149, 150, 151, 152, 153, 154, 155, 156, 157, 158, 159, 160, 161, 162, 163, 164, 165, 166, 167, 168, 169, 170, 171, 172, 173, 174, 175, 176, 177, 178, 179, 180, 181, 182, 183, 184, 185, 186, 187, 188, 189, 190, 191, 192, 193, 194, 195, 196, 197, 198, 199, 200, 201, 202, 203, 204, 205, 206, 207, 208, 209, 210, 211, 212, 213, 214, 215, 216, 217, 218, 219, 220, 221, 222, 223, 224, 225, 226, 227, 228, 229, 230, 231, 232, 233, 234, 235, 236, 237, 238, 239, 240, 241, 242, 243, 244, 245, 246, 247, 248, 249, 250, 251, 252, 253, 254, 255, 256, 257, 258, 259, 260, 261, 262, 263, 264, 265, 266, 267, 268, 269, 270, 271, 272, 273, 274, 275, 276, 277, 278, 279, 280, 281, 282, 283, 284, 285, 286, 287, 288, 289, 290, 291, 292, 293, 294, 295, 296, 297, 298, 299, 300, 301, 302, 303, 304, 305, 306, 307, 308, 309, 310, 311, 312, 313, 314, 315, 316, 317, 318, 319, 320, 321, 322, 323, 324, 325, 326, 327, 328, 329, 330, 331, 332, 333, 334, 335, 336, 337, 338, 339, 340, 341, 342, 343, 344, 345, 346, 347, 348, 349, 350, 351, 352, 353, 354, 355, 356, 357, 358, 359, 360, 361, 362, 363, 364, 365, 366, 367, 368, 369, 370, 371, 372, 373, 374, 375, 376, 377, 378, 379, 380, 381, 382, 383, 384, 385, 386, 387, 388, 389, 390, 391, 392, 393, 394, 395, 396, 397, 398, 399, 400, 401, 402, 403, 404, 405, 406, 407, 408, 409, 410, 411, 412, 413, 414, 415, 416, 417, 418, 419, 420, 421, 422, 423, 424, 425, 426, 427, 428, 429, 430, 431, 432, 433, 434, 435, 436, 437, 438, 439, 440, 441, 442, 443, 444, 445, 446, 447, 448, 449, 450, 451, 452, 453, 454, 455, 456, 457, 458, 459, 460, 461, 462, 463, 464, 465, 466, 467, 468, 469, 470, 471, 472, 473, 474, 475, 476, 477, 478, 479, 480, 481, 482, 483, 484, 485, 486, 487, 488, 489, 490, 491, 492, 493, 494, 495, 496, 497, 498, 499, 500, 501, 502, 503, 504, 505, 506, 507, 508, 509, 510, 511, 512, 513, 514, 515, 516, 517, 518, 519, 520, 521, 522, 523, 524, 525, 526, 527, 528, 529, 530, 531, 532, 533, 534, 535, 536, 537, 538, 539, 540, 541, 542, 543, 544, 545, 546, 547, 548, 549, 550, 551, 552, 553, 554, 555, 556, 557, 558, 559, 560, 561, 562, 563, 564, 565, 566, 567, 568, 569, 570, 571, 572, 573, 574, 575, 576, 577, 578, 579, 580, 581, 582, 583, 584, 585, 586, 587, 588, 589, 590, 591, 592, 593, 594, 595, 596, 597, 598, 599, 600, 601, 602, 603, 604, 605, 606, 607, 608, 609, 610, 611, 612, 613, 614, 615, 616, 617, 618, 619, 620, 621, 622, 623, 624, 625, 626, 627, 628, 629, 630, 631, 632, 633, 634, 635, 636, 637, 638, 639, 640, 641, 642, 643, 644, 645, 646, 647, 648, 649, 650, 651, 652, 653, 654, 655, 656, 657, 658, 659, 660, 661, 662, 663, 664, 665, 666, 667, 668, 669, 670, 671, 672, 673, 674, 675, 676, 677, 678, 679, 680, 681, 682, 683, 684, 685, 686, 687, 688, 689, 690, 691, 692, 693, 694, 695, 696, 697, 698, 699, 700, 701, 702, 703, 704, 705, 706, 707, 708, 709, 710, 711, 712, 713, 714, 715, 716, 717, 718, 719, 720, 721, 722, 723, 724, 725, 726, 727, 728, 729, 730, 731, 732, 733, 734, 735, 736, 737, 738, 739, 740, 741, 742, 743, 744, 745, 746, 747, 748, 749, 750, 751, 752, 753, 754, 755, 756, 757, 758, 759, 760, 761, 762, 763, 764, 765, 766, 767, 768, 769, 770, 771, 772, 773, 774, 775, 776, 777, 778, 779, 780, 781, 782, 783, 784, 785, 786, 787, 788, 789, 790, 791, 792, 793, 794, 795, 796, 797, 798, 799, 800, 801, 802, 803, 804, 805, 806, 807, 808, 809, 810, 811, 812, 813, 814, 815, 816, 817, 818, 819, 820, 821, 822, 823, 824, 825, 826, 827, 828, 829, 830, 831, 832, 833, 834, 835, 836,

IDENTIFICATION AREA

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DERIVATION OF THE

ΔΑΥΝΤΙΑΥΟΣ/ΟΚΚΑ.ΔΙΕΛ

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9/20/2006 01:00 PM

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LEP: A. W. D. S. 8198

1. The above information was obtained from the
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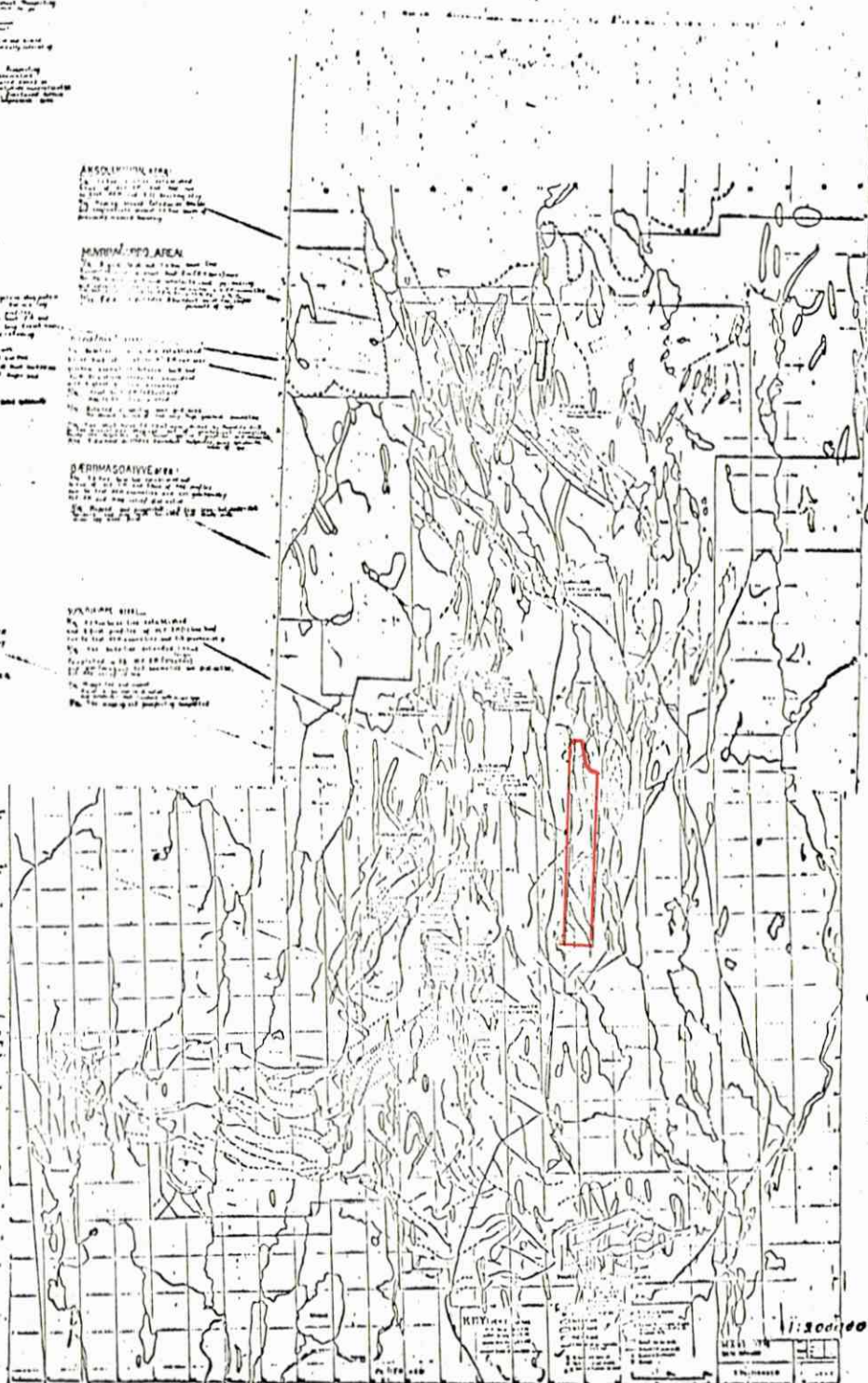
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Fig. 1

Introduction (Fig.1)

The Suolojavrrre-grid is situated on the western side of the lake called Stuora Suolojavrrre. The 5.6 kms long base-line starts from 700 ms north of Duolbajavrre, 10 kms south of Suolovuobme. The base-line was set out in the direction of magnetic north and 800 ms long profiles were set out east-wards from the base-line with 100 ms line-spacing. The grid was layed out to locate by VLF-EM- and Mag-survey and mapping the helicopter-anomalies within the geochemically anomalous areas, found by the reconnaissance till sampling of 1974. The area is quite covered by swamps and drift as usual in this district.

Geology by Kalle Taipale (Fig,2)

Petrography

The only rock type that has not been described in the connection of Havggajavrre, Unna Vuovdas and Javrehuosjokka is the skarn. It consists of tremolite and chlorite and possibly some plagioclase. See the sample 191C/KT. This rock type is exposed only in two places and its origin and stratigraphical setting is obscure. The southernmost occurrence of skarn rock (sample 278/KT) contained some pyrrhotite. The nickel anomaly near this place could be explained by this kind of sulphide bearing skarn.

Other rocks like greenstones, mica schist and quartz banded iron ores are similar to the rocks of other areas described before. The greenstone differs a little from the greenstones of Havggajavrre, Unna Vuovdas and Javrehuosjokka, however. It is more gabbroic, more coarse grained than the varieties in other areas. The weak nickel anomalies are probably caused by silicate nickel of these gabbroic greenstones.

Structure

The structure of Suolajavrre grid is obscure because of poor outcrop. Anyway there is probably a fold structure judging by the coupled occurrence of the sulphide bearing chert-graphite schist horizons. (see the map).

Block searching

Some good boulders with Zn and Pb were found at the beach of lake Suolajavrre (e.g. 31/MP-75). The occurrence of those elements is very random however. The till at Suolajavrre grid is mostly very poor in boulders at the surface. So the boulders searching with Proxan apparatus or something like it could bring out "hidden" blocks.

Geophysics (Fig.3)

South of the 600N-profile there seems to be a very weak relief on the VLF-curves. To the north of the profile at least four strong conductor zones are running in a south-north-direction. They seem to conform to the acidvolcanics-beds with some mineralized graphitic beds. The mag-relief is quite low, but there are some anomalies, which are parallel to EM-anomalies and seem to be on the quartz-banded magnetite-formations, found during the detailed mapping.

Conclusions

The geochemical and geophysical anomalies seem to conform to the mineralized graphitic beds in acid volcanics as in the other areas Havggajavrre and Unna Vuovdas.

The mineralization is mainly pyrrhotite and some pyrite with traces of chalcopyrite, occasionally sphalerite (31/M-76).

The best analyses of hand specimens gave:

0.40% Cu in 233/KT/76

3.9% Zn in 31/MP/76

M... 1770

Data 19/7 1976

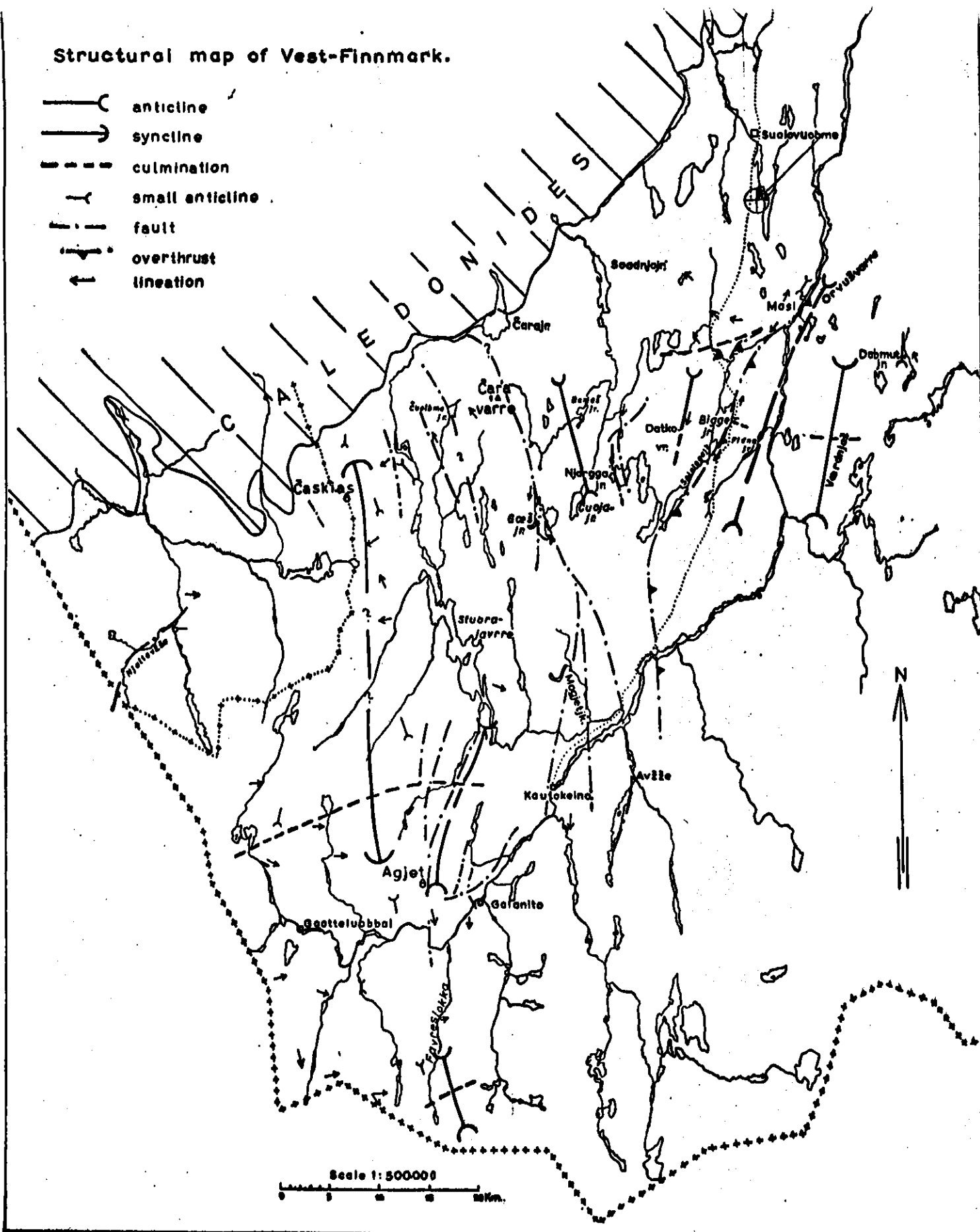
Presented by: E. J. ...

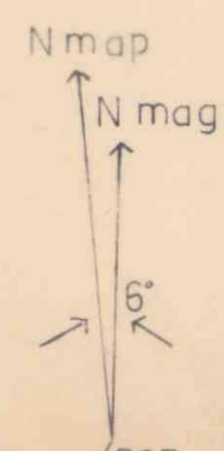
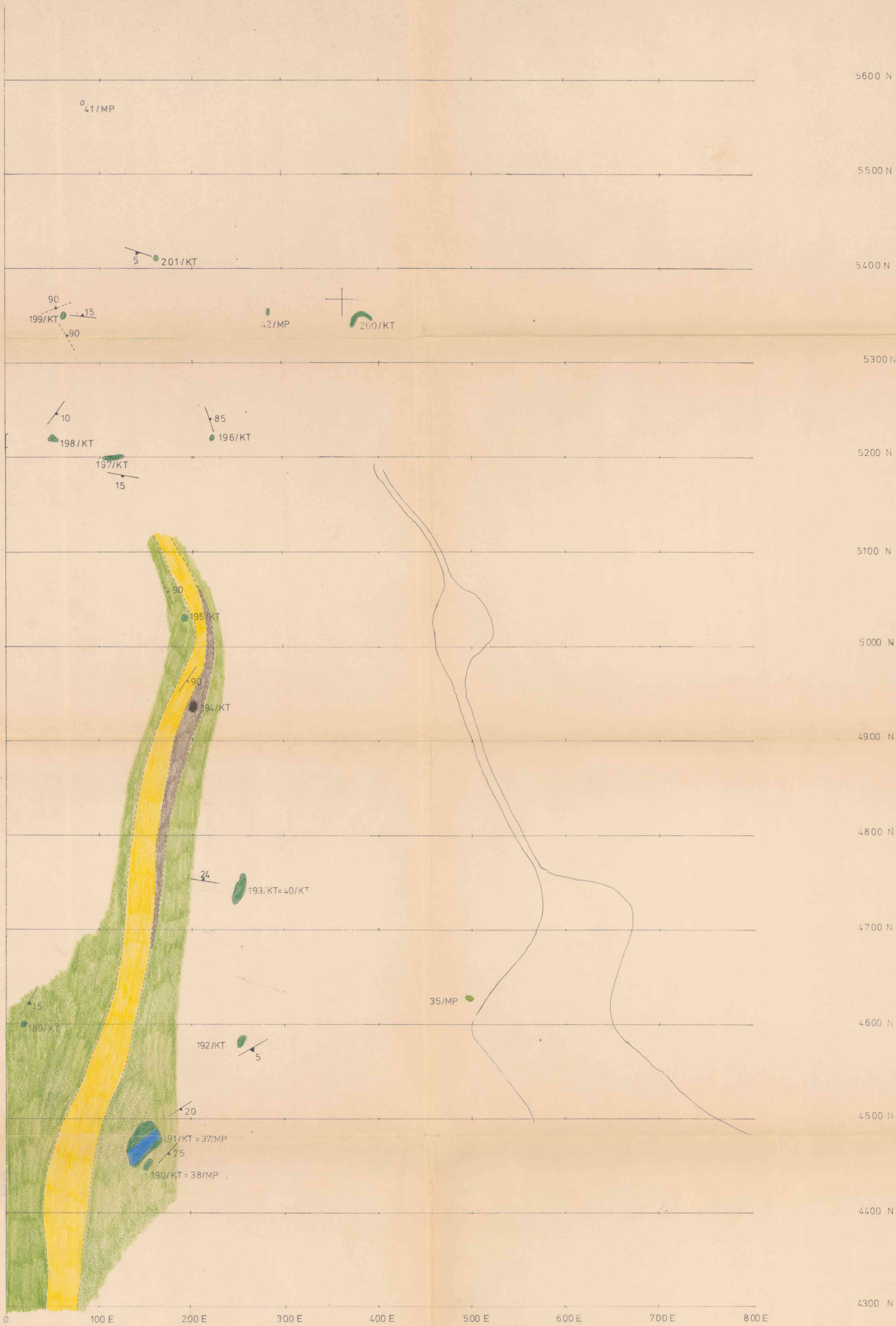
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Structural map of Vest-Finnmark.

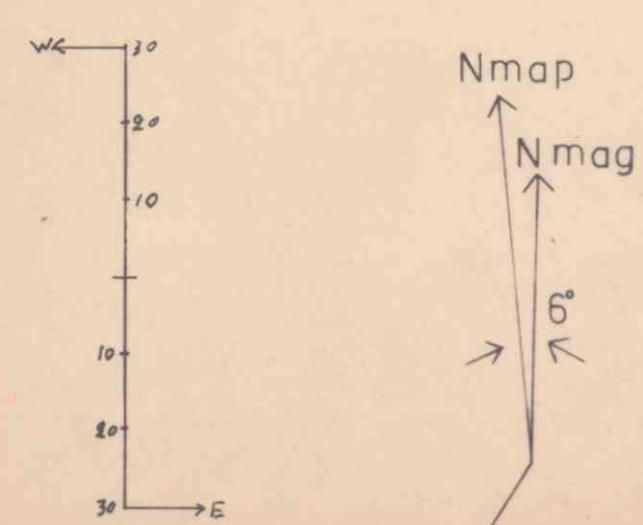
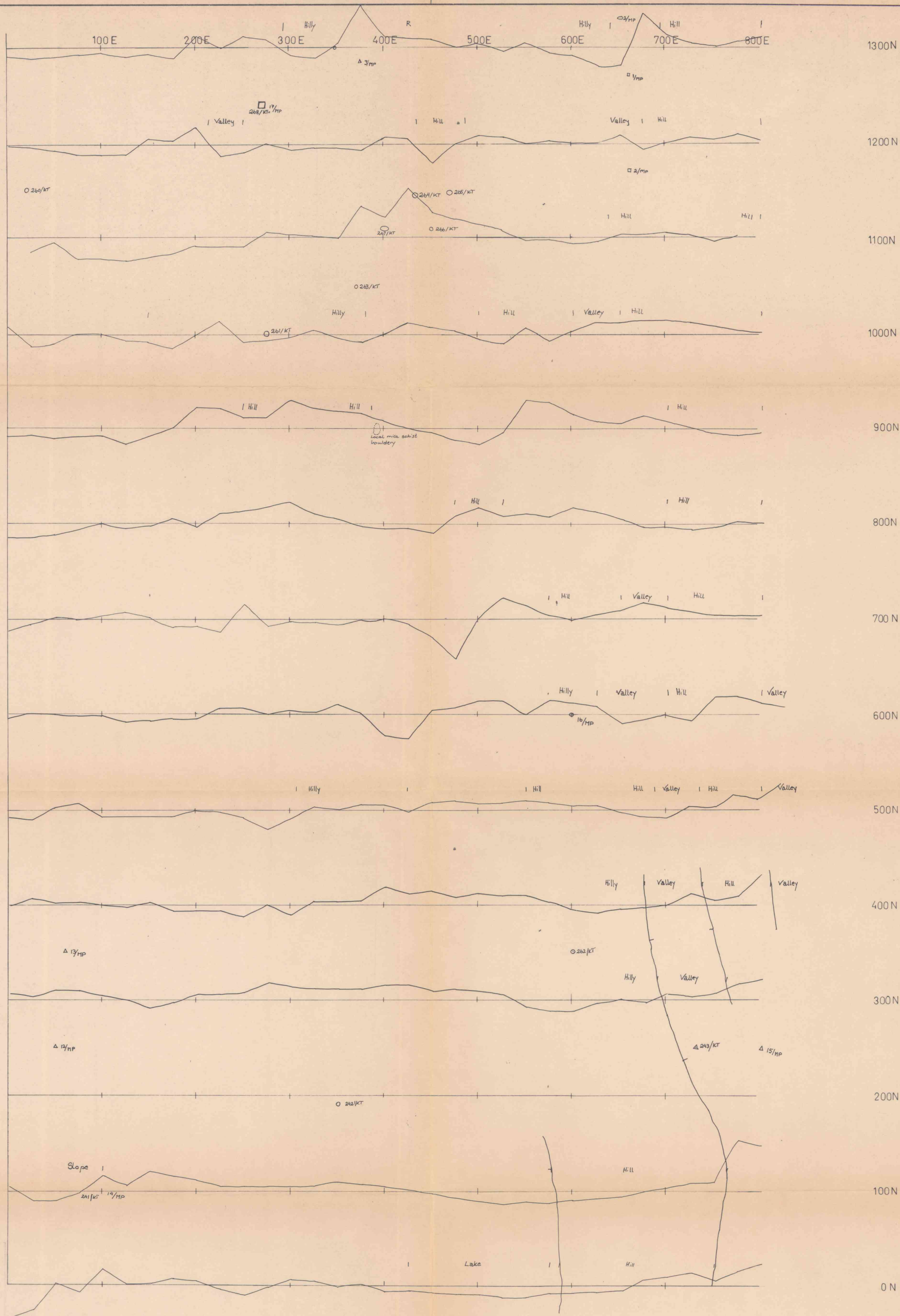




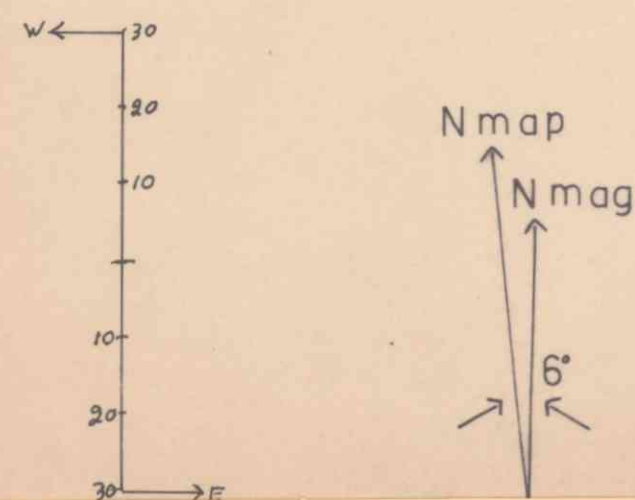
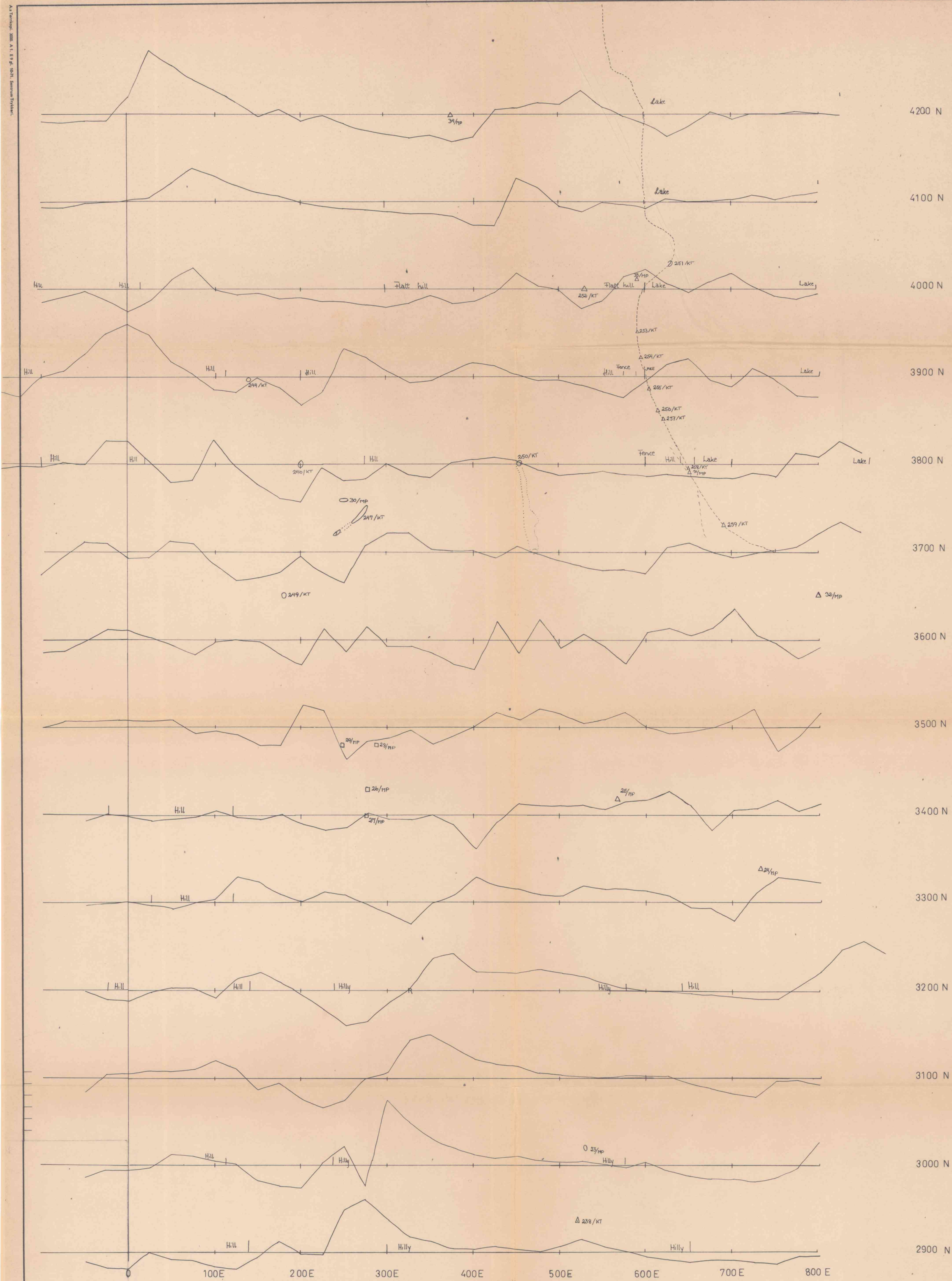
SUOLAJAVRE MASI 1776
GEOLOGY

% SULFIDMALM

SCALE	OBS. K. T.	8-76
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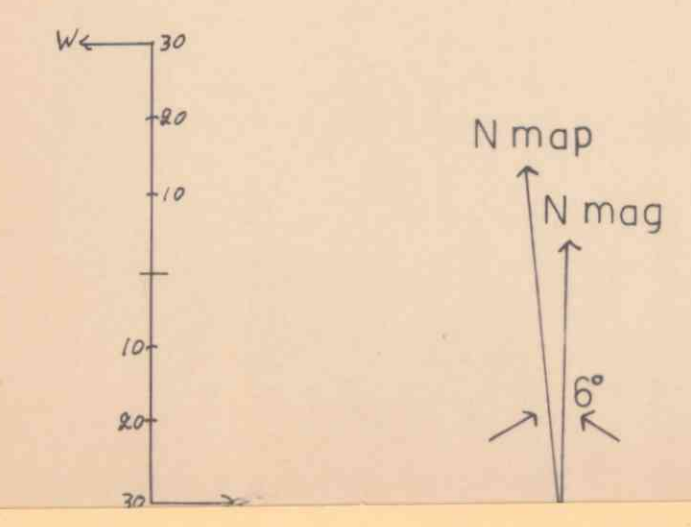
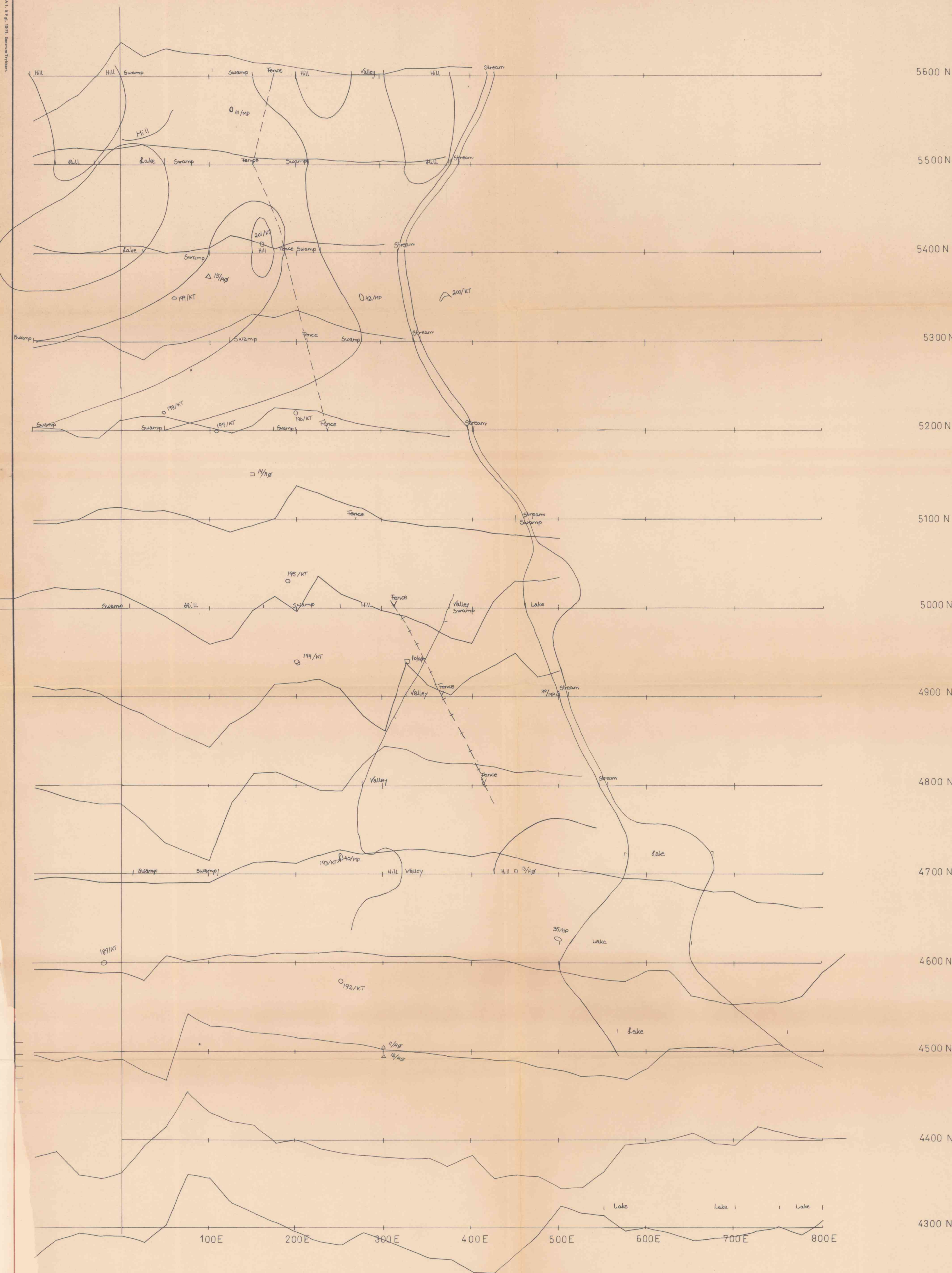


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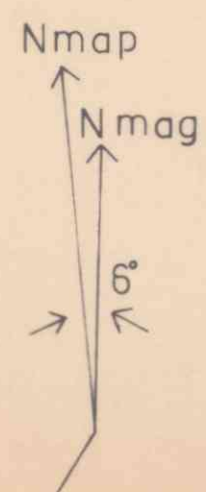
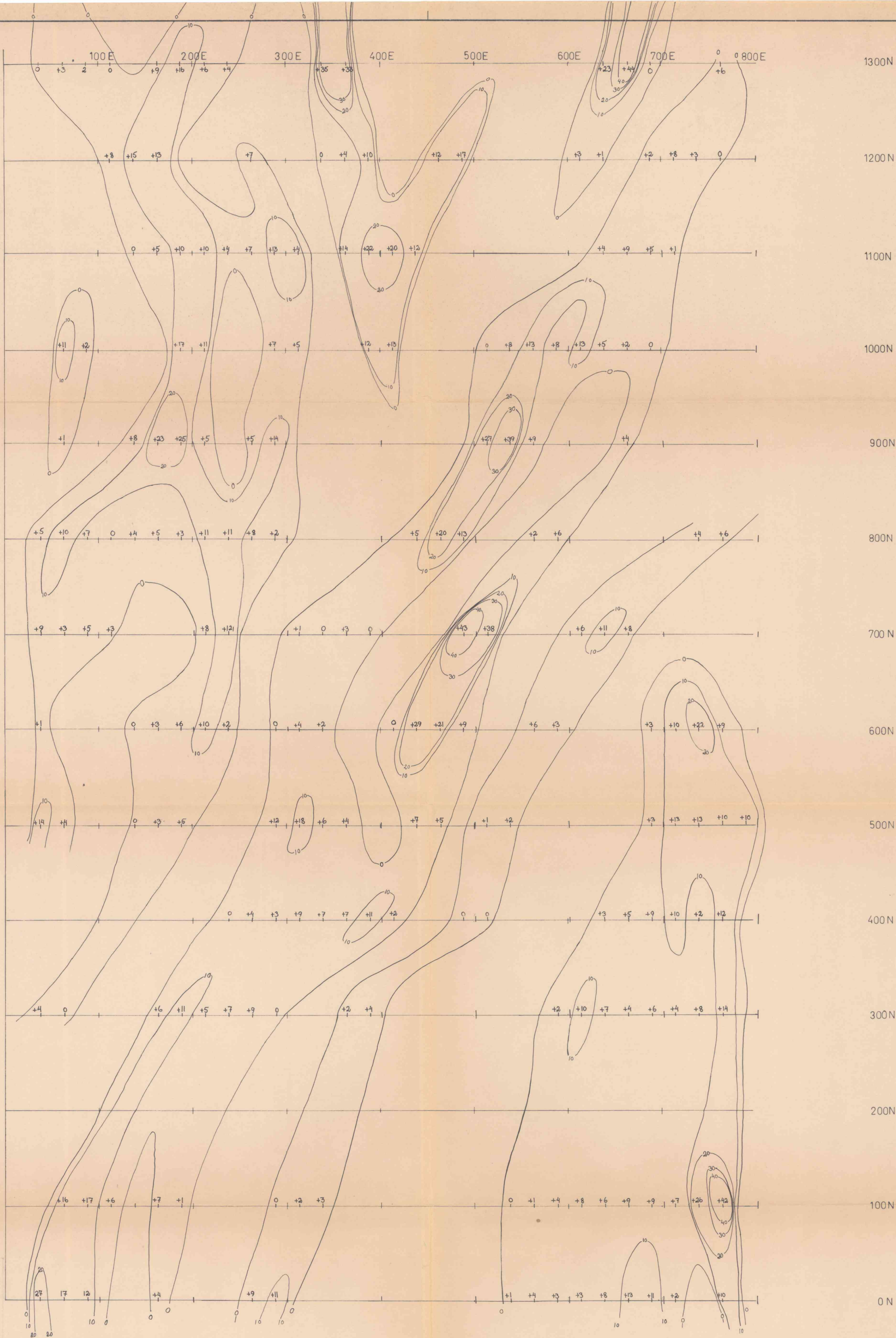
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As Transp. 2000 A.T. 5.3.8. 1971. Swamp/Stream



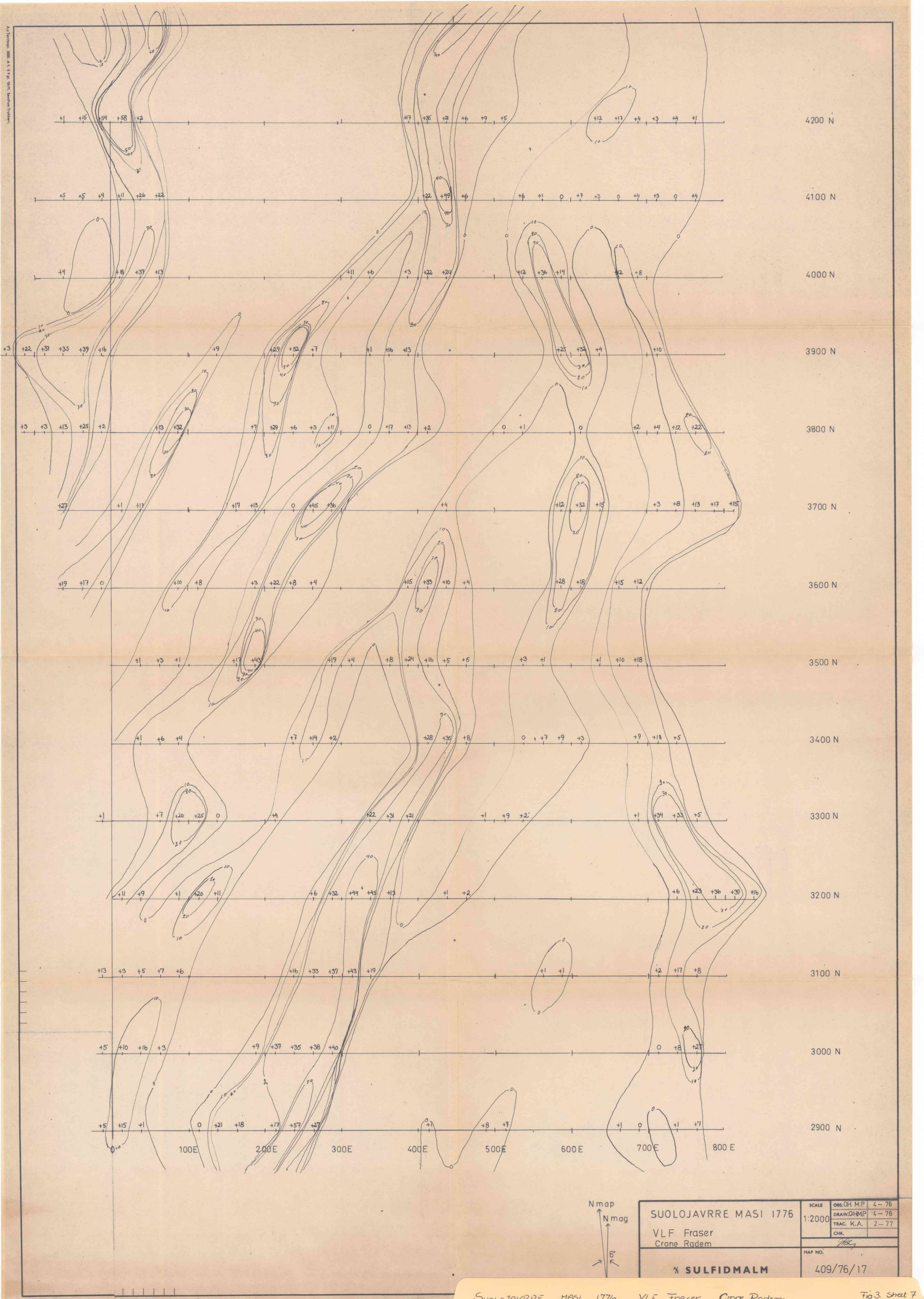
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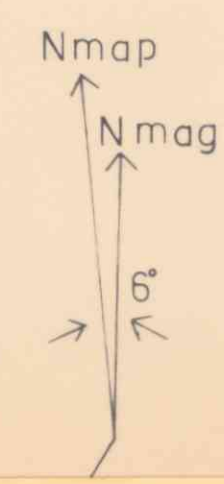
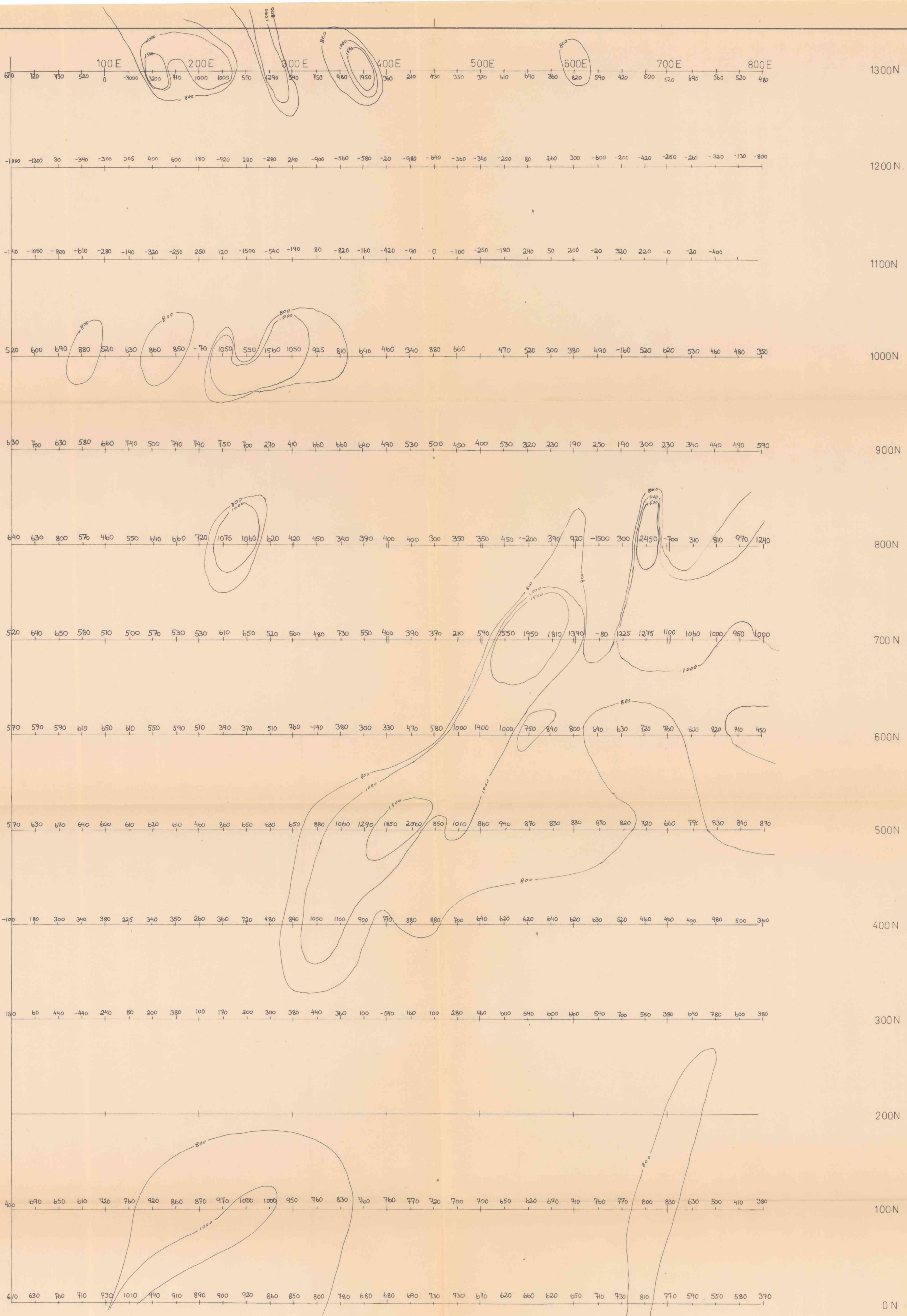
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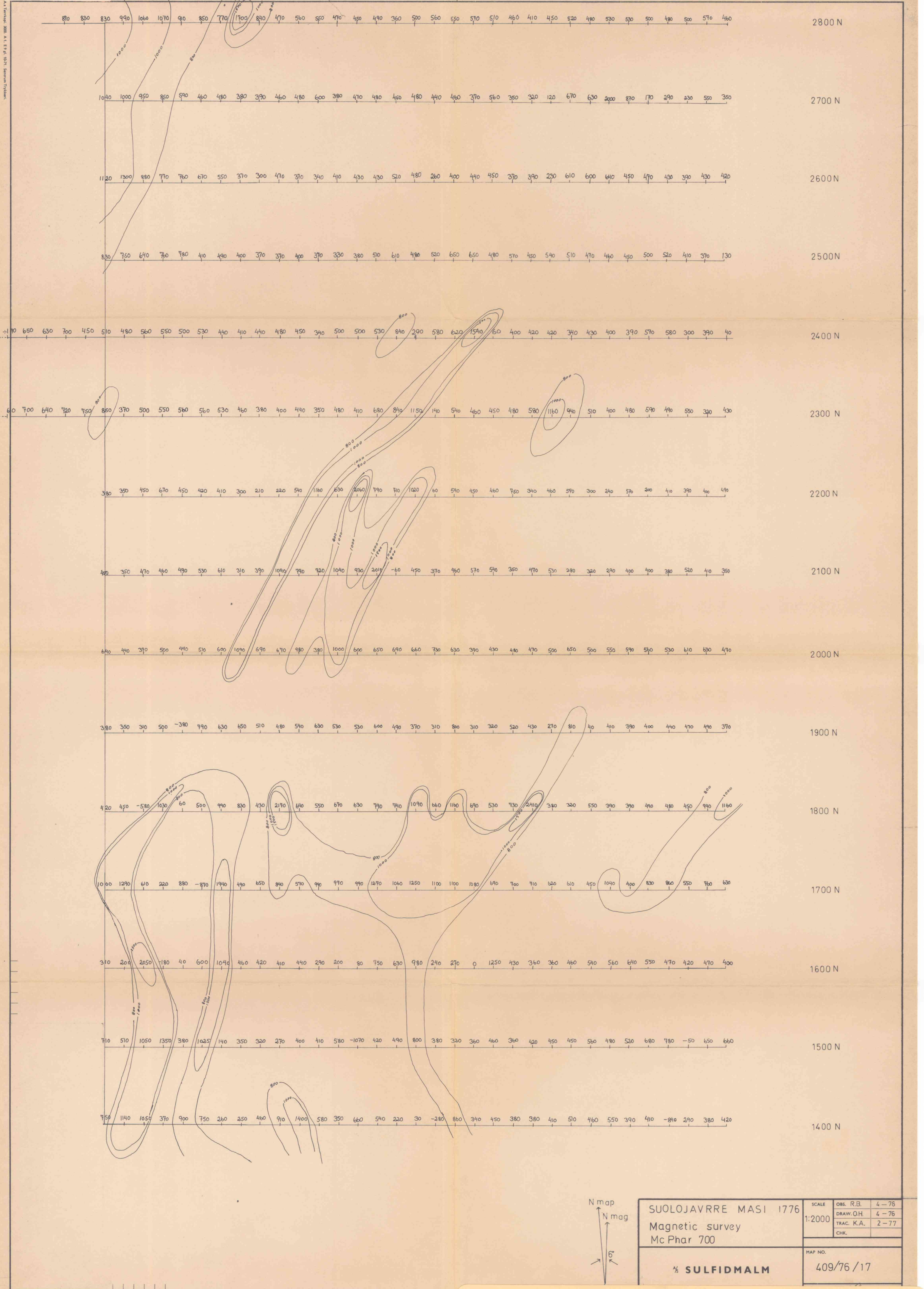
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Fig 3.
Sheet 6



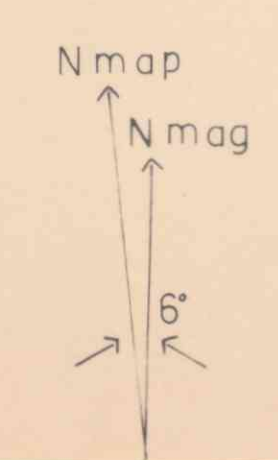
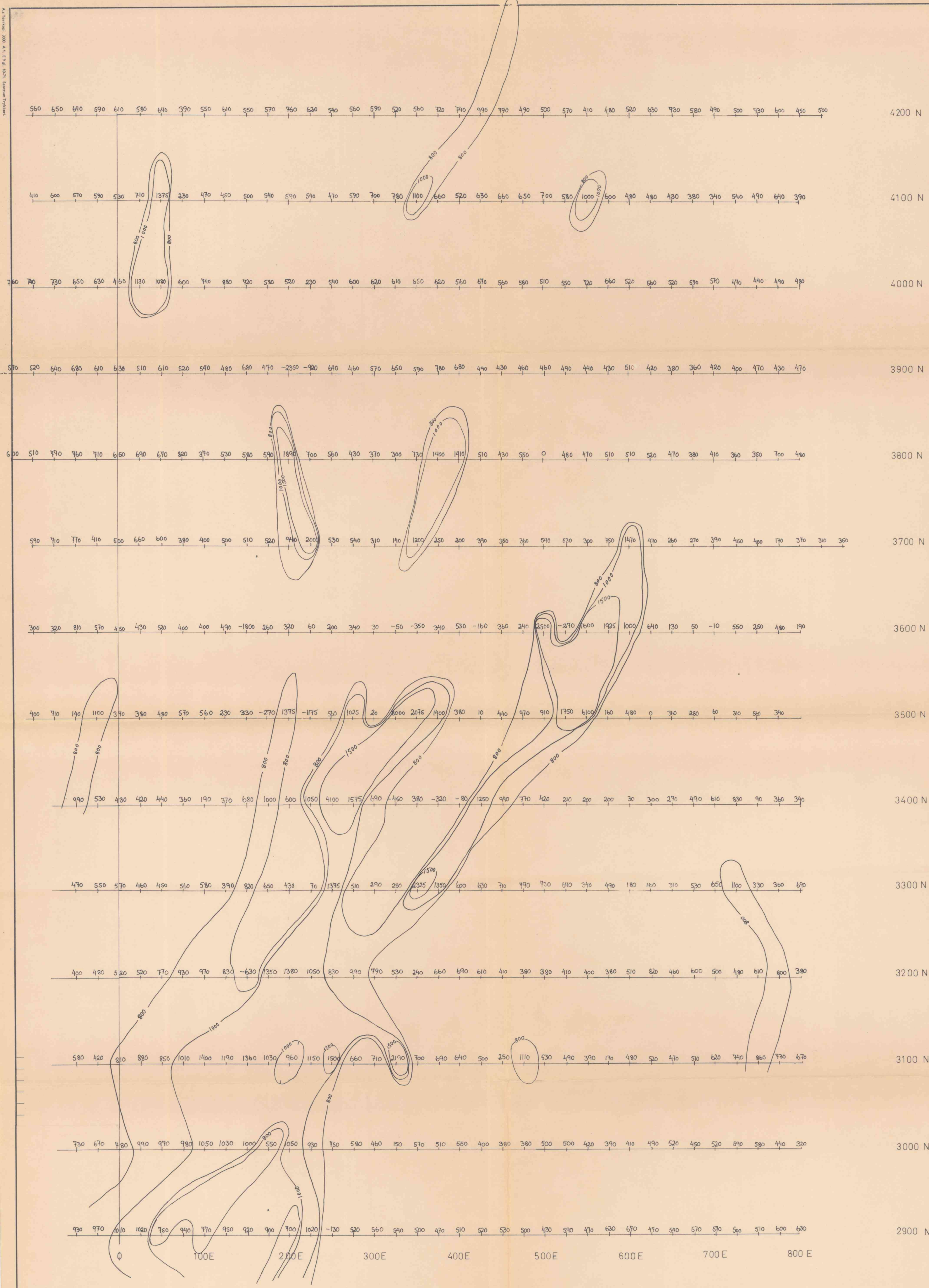


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SUOLOJAVURRE MASI 1776 Magnetic survey McPhar 700	SCALE		OBS. R.B.	4 - 76
			DRAW. O.H.	4 - 76
			TRAC. K.A.	2 - 77
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As Approved: 2008 A.L.E. 10-271, Seamen's Rights



SCALE 1:2000	OBS. RB	4-76
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MAP NO. 409/76/17		

SULFIDMALM

