

HUDSON BAY EXPLORATION AND DEVELOPMENT

COMPANY LIMITED

EXPLORATION REPORT

of

GEOLOGICAL, GEOCHEMICAL

and GEOPHYSICAL

SURVEYS

on

THE CANYON CLAIM GROUP

Whitehorse Mining District
105 K 2 & 3
62°05'/133°00'

Robert Stroshein
December 4, 1984.

091587



This report has been examined by
the Board of Directors of the
Yukon Territory and is referred to
as representation work in the amount
of \$ 30,319.89

for *D. D. Edmund*
Regional Manager, Exploration and
Geological Services for Yukon Territory
of Yukon Territory.

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SUMMARY:

The Canyon claims were originally staked to cover the potentially favourable tectonic system hosting a mineralized gold showing located on the Canyon 3 claim. An extensive exploration program involving geophysical surveys, bulldozer trenching and diamond drilling carried out from April to June 1984 was successful in locating^g precious metal bearing epithermal quartz-chalcedony-calcite stockwork zone.

The deposit is apparently related to Tertiary age igneous centers within the Tintina Fault system. Specifically the stockwork is hosted by Tertiary volcanic flow and tuff rocks near the margin of a large rhyolite porphyry body located between the Grew Creek and Danger Creek faults (Tempelman-Kluit, 1972).

The mineralized zone occurs near a tectonically active center adjacent the Grew Creek fault.

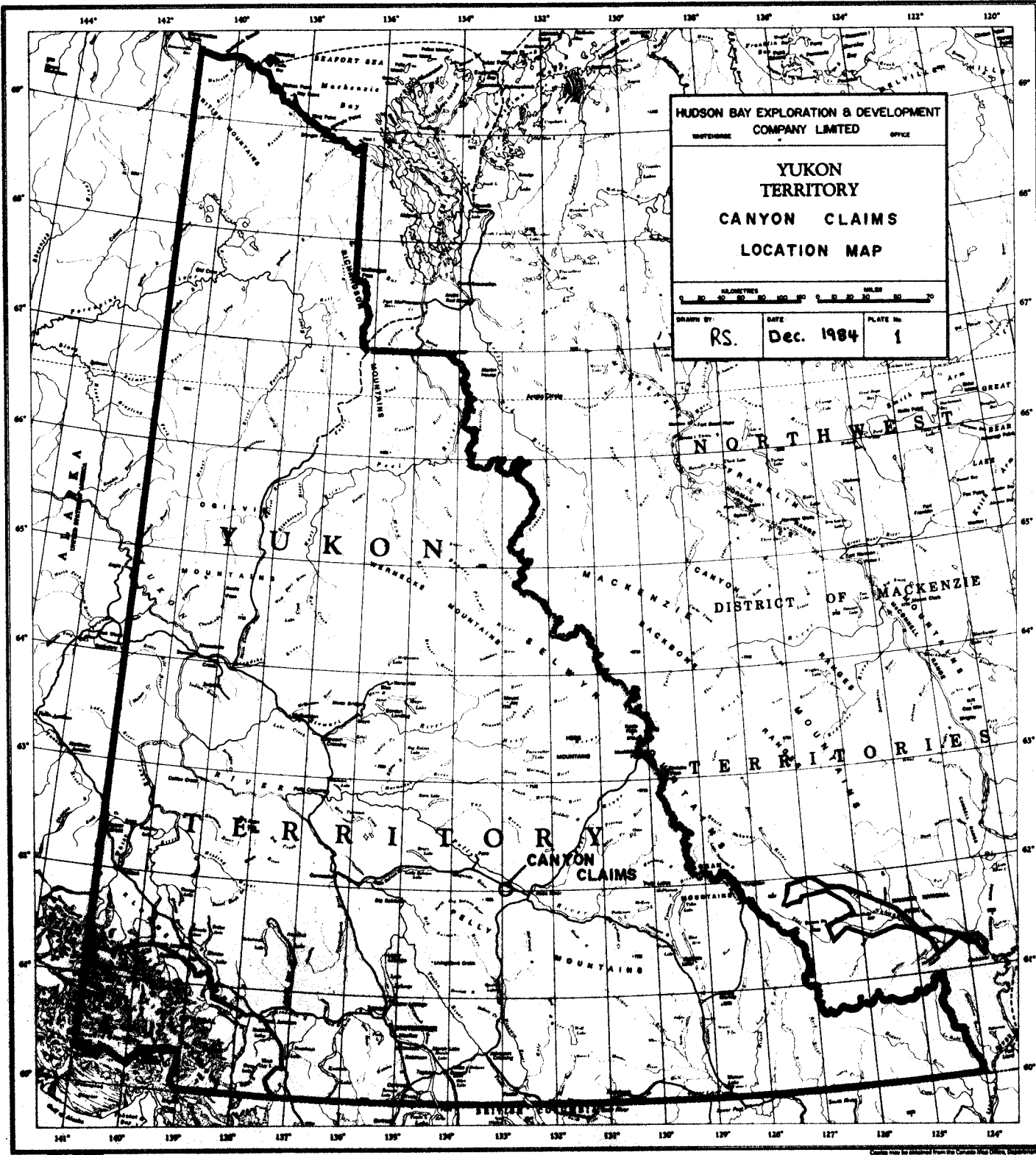
A reconnaissance exploration program was outlined involving a combination of geophysical, geochemical, and geological techniques to explore the remainder of the claim group. The field program was carried out from July 5th to August 24th and October 11th to 25th, 1984. A total of 117 kilometers of section lines were chained and flagged; 109 kilometers of section lines were surveyed with EM-16; 69 kilometers of section line were surveyed with magnetometer (fluxgate or proton); 56 rock and 50 soil or silt samples were collected for geochemical analyses; an estimated 15 man days were spent mapping, prospecting and tagging claims.

The program concentrated on the area between the Grew Creek and Danger Creek faults during the first exploration period. The area between the faults was traced and systematically surveyed over the 20 kilometer distance from the cut line Grid near Grew Creek to the Blind Creek Road area. The Blind Creek Road area grid is of the greatest interest geologically and yielded silver values of up to 62.8 grms/tonne from altered and sheared rock samples.

Further exploration is recommended for this area.

A detailed VLF-EM survey was carried out on a line grid in the Buttle Creek area during October. The area lies between the Buttle Creek and Grew Creek faults. The survey indicates several strong trends across the grid as well as several disjointed trends which warrant more detailed evaluation.

This reconnaissance program has been useful for tracing the major fault trends and outlining potentially favourable areas. The methods indicate that a persistent and systematic approach is necessary for a full evaluation of the belt.



Scale 1:500,000

Claims may be obtained from the Canada Map Library, Department of Energy, Mines and Petroleum, Ottawa, or your nearest map dealer. © Hudson Bay Exploration & Development Company. All Rights Reserved.

CLAIM OWNERSHIP:

The Canyon claim group is comprised of 320 quartz mineral claims located in the Whitehorse Mining District. Claim sheets 105 K 2 and 3. Figure 2.

The following is a listing of all claims and Grant Nos.:

CANYON 1-32 YA 75717 - YA 75748

CANYON 33-40 YA 75753 - YA 75760

CANYON 41-292 YA 81160 - YA 81411

CANYON 293-320 YA 85398 - YA 85425

The CANYON 293-320 claims were recorded on September 6, 1984 subsequent to the exploration program and therefore not included in applications for certificates of work.

The claims are wholly owned by Hudson Bay Exploration and Development Company, Limited subject to the terms of an Option Agreement with Mr. A. Carlos of Whitehorse, Yukon.

The mailing address for Hudson Bay Exploration and Development Company Limited is: 100-10 Burns Road

Whitehorse, Yukon Territory

Y1A 4Y9

LOCATION AND ACCESS:

The Canyon claims form a continuous block of claims along the Robert Campbell Highway between the settlements of Ross River and Faro, Yukon. The eastern end of the claims is north of the highway near Km 388 and the western end is also north of the highway near Km 420.

All claims are easily accessible from the Robert Campbell Highway and numerous auxiliary roads and trails occur throughout the property.

PERSONNEL:

The following people were employed by Hudson Bay Exploration and Development to work on the Project:

R. Stroshein - Senior Exploration Geologist

C. McAtee - Field Geologist

R. Conner - Geophysical Operator

R. Bidwell - Geophysical Operator

B. Matiation - Draughtsman

Mr. A. Carlos conducted a VLF-EM survey on the Buttle Creek grid under contract to Hudson Bay Exploration and Development.

RECONNAISSANCE PROGRAM:

The program from July 5 to August 24 involved a three man field crew who camped near Grew Creek and commuted daily to the work areas by truck. The crew divided the three main functions of chaining compass line, VLF-EM survey or magnetic survey. Geological mapping, prospecting, sampling and claim tagging were often carried out with the major surveys as well as on specific days.

Assessing the results of earlier surveys over the stockwork zone on the Canyon 3 claim it was expected that other potential zones would have a similar 500-700 meter areal extent. Using this criteria a systematic line grid with the cut claim lines for baseline control was devised. A set of three lines centered on every second set of claim posts would provide a regular interval along the trend. Two lines were spaced at 150 meters on either side of the claim post and therefore the possibility of "missing" an epithermal system was considered minor.

The lines were arbitrarily numbered, generally lower numbers begin at the eastern end of the grid and increase westward, although lines were numbered as they were chained and not necessarily completed in a westward sequence. The numbers progress from 1 to 57 and 82 to 84, for a total of 60 lines. A closer concentration of lines was completed in the Blind Creek Road area where the obvious igneous center suggested that the potential may be greater in this area.

The claim location lines which are on a 310° bearing were used as baselines arbitrarily set at 20N although the section lines were run on a 45° bearing. The section lines were run with compass and topofil hip chain. Stations along the line were flagged and marked at 25 meter intervals with flagging. No horizontal corrections were made to topographical irregularities.

Once the lines were chained VLF-EM and magnetic surveys were carried out along the lines with readings recorded at 25 meter intervals.

The VLF-EM survey used a Geonics EM-16 unit. Dip angle readings were obtained using the Seattle, transmitting station and facing southward along the section

lines. The dip angle readings were plotted and profiled in sets as in the field. The interpretation from these 1:5000 scale plots (Appendix 1) were subsequently transferred to the 1:12,500 scale compilation base maps. During the interpretation the anomalies were arbitrarily classified as to relative strength. (Figures 3, 4, 5). The VLF-EM survey was completed on lines 1-30, 32, 33, 36-42, and 46-53.

The magnetic survey involved the use of the Scintrex MF-2 fluxgate magnetometer and a Geometrics Model 816 proton magnetometer. The fluxgate magnetometer was used on lines 1-31 and 35-45 after which a breakdown made it necessary to complete the survey of lines 32-34, 46-47, and 82-84 with the Proton magnetometer. Total magnetic field readings were recorded and subsequently plotted and profiled on 1:5000 scale sketches for interpretation. The sketches were of lines in sets as in the field. (Appendix II) The anomalous areas above background were indicated along the lines on the 1:12,500 scale compilation base maps with the peak reading above background noted in gammas.

Outcrop occurrences were roughly outlined on the compilation base maps to aid in interpretation. The Blind Creek Road area geology and geochemical sampling was plotted on 1:2,500 scale map of the local area (Figure 8). Other geochemical sampling is recorded on the compilation base maps. Lithochemical results were generally of altered rocks from shears or with oxidation staining or of quartz and/or calcite vein material. The rock samples were analysed for Ag, As, Hg and Au. Pan concentrate samples were collected where possible to enhance the potential minor levels of gold and indicator elements. The pan concentrate samples were analysed for Pb, Ag, As, Hg and Au. Soil and silt samples were also collected and analysed for Pb, Ag, As and Hg. The low numbers of samples does not allow for statistical treatment of the geochemical results and interpretations are made from visual comparisons and aided by experience.

Air photographs were largely used to aid in locating the grid points. The air photographs obtained from the National Air Photograph Library are of approximately 1:12,500 scale and is of coverage along the Robert Campbell Highway. The 1:12,500 scale base maps were made to coincide with the air photograph scale and were made from "blow ups" of the 1:50,000 scale topographical maps. The photographic blow ups were done by Nortech Ltd. of Whitehorse with the base maps made from tracing off the photographic acetate. This combination of air photograph and base map provided for excellent location control.

The Buttle Creek grid VLF-EM survey was carried out from October 11-25. The fieldwork was contracted to Mr. A. Carlos of Whitehorse. The line grid was run with compass and hip chain. Stations were flagged at 12.5 metre intervals and recorded at 25 metre intervals. Dip angle readings using a Geonics EM-16 unit were taken facing south and using the Seattle transmitting station. The section lines were run at 100 metre intervals on a 045° bearing on either side of a central 15S baseline also run with compass and hip chain. The grid was started from the No. 1 claims posts of Canyon 107, 108, 131 and 132. The line at this location was arbitrarily assigned the 50E coordinate. Dip angle readings were plotted and profiled on two 1:2,500 scale maps for interpretation. (Figures 6 & 7)

The EM anomalies were classified according to relative percentage of dip angle. The anomaly axes were transferred to the 1:12,500 scale compilation base map sheet C. (Figure 5)

DISCUSSION OF RESULTS:

1. VLF-EM Survey;

VLF-EM anomalies exhibit a wide range of amplitudes along the length of the survey. Generally the strongest conductors coincide with major topographical features which represent the major fault zones, the Grew Creek and Danger Creek Faults. The two faults maintain an approximate 1 kilometer separation between Grew Creek km 392 and the Blind Creek Road area km 410.

The reconnaissance survey lines along the trends of the Grew-Danger Creek fault set indicate a persistent weaker internal series of anomalies. This is probably a subsidiary internal fault related to the major bounding faults.

Along lines 1-9 inclusive are additional sets of anomalies which exhibit a parallel linear relationship to the major trends and therefore likely are subsidiary to the main system

The anomalies in the unnamed creek area near km 400 show a less regular pattern this may indicate irregular structures or a reflection of offsets caused by late stage cross faulting.

On the Buttle Creek grid persistent linear anomalous trends cross the area in a North westerly direction consistent with the regional trend. There are prominent north-south offsets coincident with the north trending creek valleys.

The intermediate discontinuous trends which coincide with the topographic highs crossing the 15S Baseline near lines 44E and at line 57E offer the best potential exploration targets.

2. Magnetic Survey.

Magnetic anomalies occur only along lines at the eastern end of the survey area. The anomalies on lines 1-10 reflect the underlying sequence of intermediate to mafic volcanic flow, tuff and pyroclastic rocks.

The anomalies near the unnamed creek at km 400 are discontinuous and erratic. These suggest a once tectonically active area.

3. Geology and Geochemistry.

Exploration has concentrated on the area of the Grew-Danger Creek fault system. This area is noticeable for the lack of outcrop along the northwest trend. Several areas of Tertiary sandstone and conglomerate outcrops have been located along low ridges near Km 404.

The prominent outcrops in the fault system in the Blind Creek road area are formed by a resistant igneous intrusive system. The system is made up of several phases from rhyolite porphyry to equigranular granodiorite.

The outcrops north of the Danger Creek Fault are of massive tan grey limestone of Permian age. Near Grew Creek a prominent ridge of dark green basaltic rocks includes lenses of bull white quartz.

South of the Grew Creek fault Permian or older metamorphosed sedimentary units form prominent resistant ridges with a northwesterly trend. There are areas of metamorphosed intermediate to mafic volcanic rocks which occur with these units.

The most significant geochemical results are the anomalous silver values (1.2-62.8 ppm) from five rock samples near line 34 in the Blind Creek Road area. These samples are from mildly altered shears in rhyolite porphyry outcrops.

Narrow altered shears and silicified zones have been sampled near felsic dykes on the ridge above the lake west of line 53. The results of the sampling are consistently low except the dykes appear to have an anomalous As background (up to 90 ppm).

Sample 75617 along Grew Creek near km 392 is of an altered shear zone in carbonaceous shale and siltstone of probably Tertiary age and is slightly anomalous in As and Hg.

Numerous narrow calcite stringers occur in outcrops of pyroclastic intermediate volcanic along line 3. The geochemical results are universally low consistent with the lack of alteration and other hydrothermal evidence occurring with the veins.

Silt samples along the unnamed creek near km 400 include enhanced levels of As and Hg (up to 58 ppm and 235 ppb respectively).

Soil samples in the Blind Creek Road area and from the meta-sedimentary sequence south of the area are universally low and do not indicate any potential.

Pan concentrate samples along Buttle Creek indicate anomalous Au (1050 ppb) although the indicator elements As and Hg are not anomalous.

CONCLUSIONS AND RECOMMENDATIONS:

The systematic program of geophysical, geochemical and geological surveys has indicated several areas of the Canyon claim group which warrant further evaluation.

The Blind Creek Road area includes a igneous center occurring in the Grew-Danger Creek fault system. The mineralization at Grew Creek occurs near the margin of a similar igneous system. The presence of late stage felsic dykes appears to be an important occurrence in the vicinity of the Grew Creek mineralization. The altered shears and silicified zones are obvious targets and extensive sampling is necessary to follow up on the silver zone or to provide further targets.

The combination of VLF-Em, magnetic and geochemical results in the Unnamed Creek area near km 400 offers a potential target area. More detail sampling and surveys are necessary to evaluate the area.

The two VLF-EM conductors in the Buttle Creek area warrant further evaluation. Geochemical sampling with trenching may be useful. A magnetic survey may provide some indication of underlying bedrock as subtle magnetic responses may be related to the volcanic greenstone unit or the metamorphosed sediments.

Within the Grew-Danger Creek fault system extensive rock, soil and silt sampling is recommended. Sampling of glacial till does not appear to be effective but systematic sampling of available outcrops, residual soils and along drainages can be useful.

Further geophysical surveys especially in the areas flanking the igneous center near the Blind Creek Road may be required to provide targets in the overburden covered areas.

Pan concentrate sampling of stream sediments as well as residual soils can be a useful tool for further evaluation of the Permian meta-sedimentary units.

This program should be continued as a process to eliminate areas which would otherwise make it necessary to explore with much more sophisticated and expensive field techniques.

Robert Stoshein

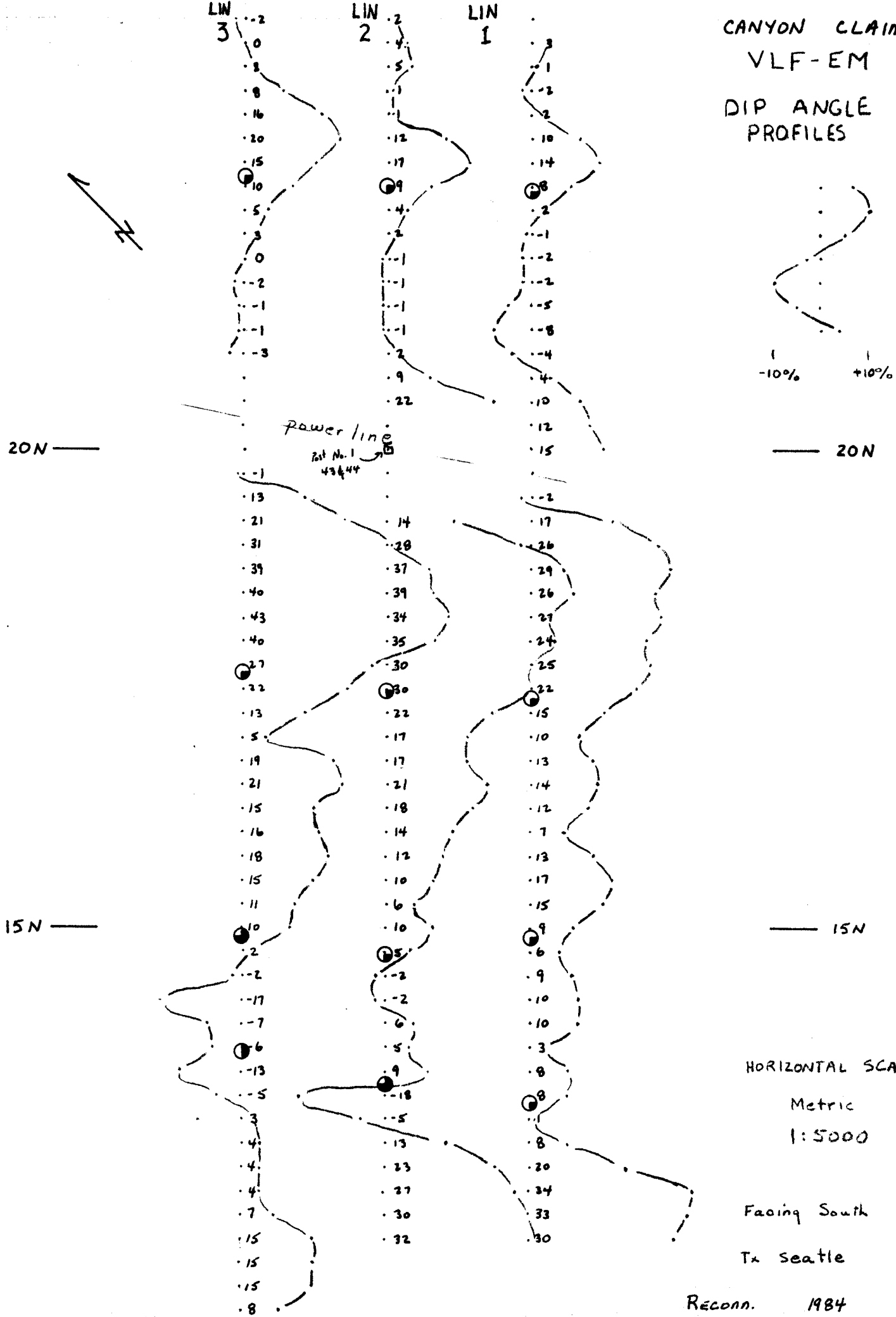
APPENDIX I

VLF-EM SURVEY

RECONNAISSANCE LINES

DIP ANGLE PROFILES

CANYON CLAIMS
VLF-EM
DIP ANGLE
PROFILES



HORIZONTAL SCALE

Metric

1:5000

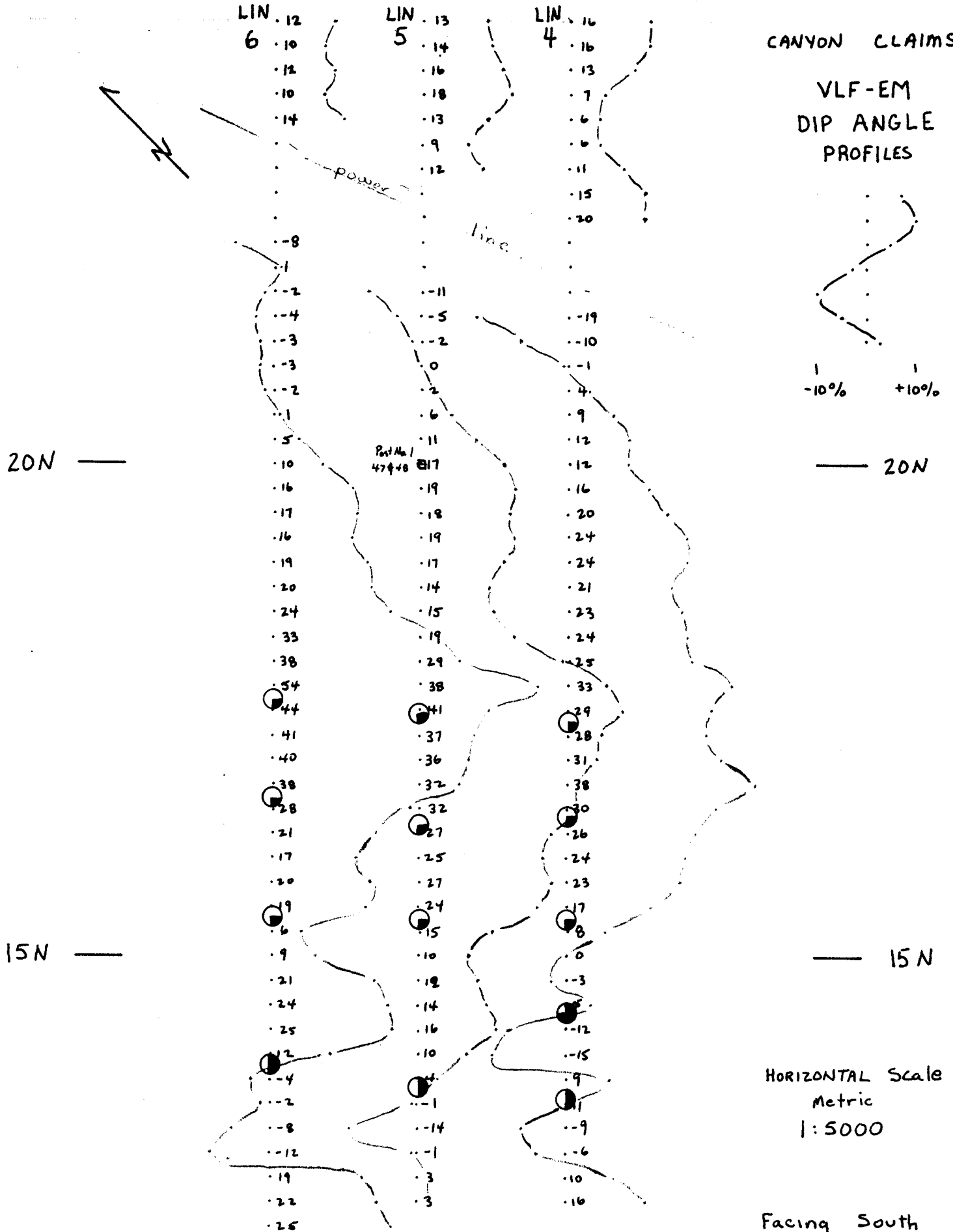
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Tx Seattle

Reconn. 1984

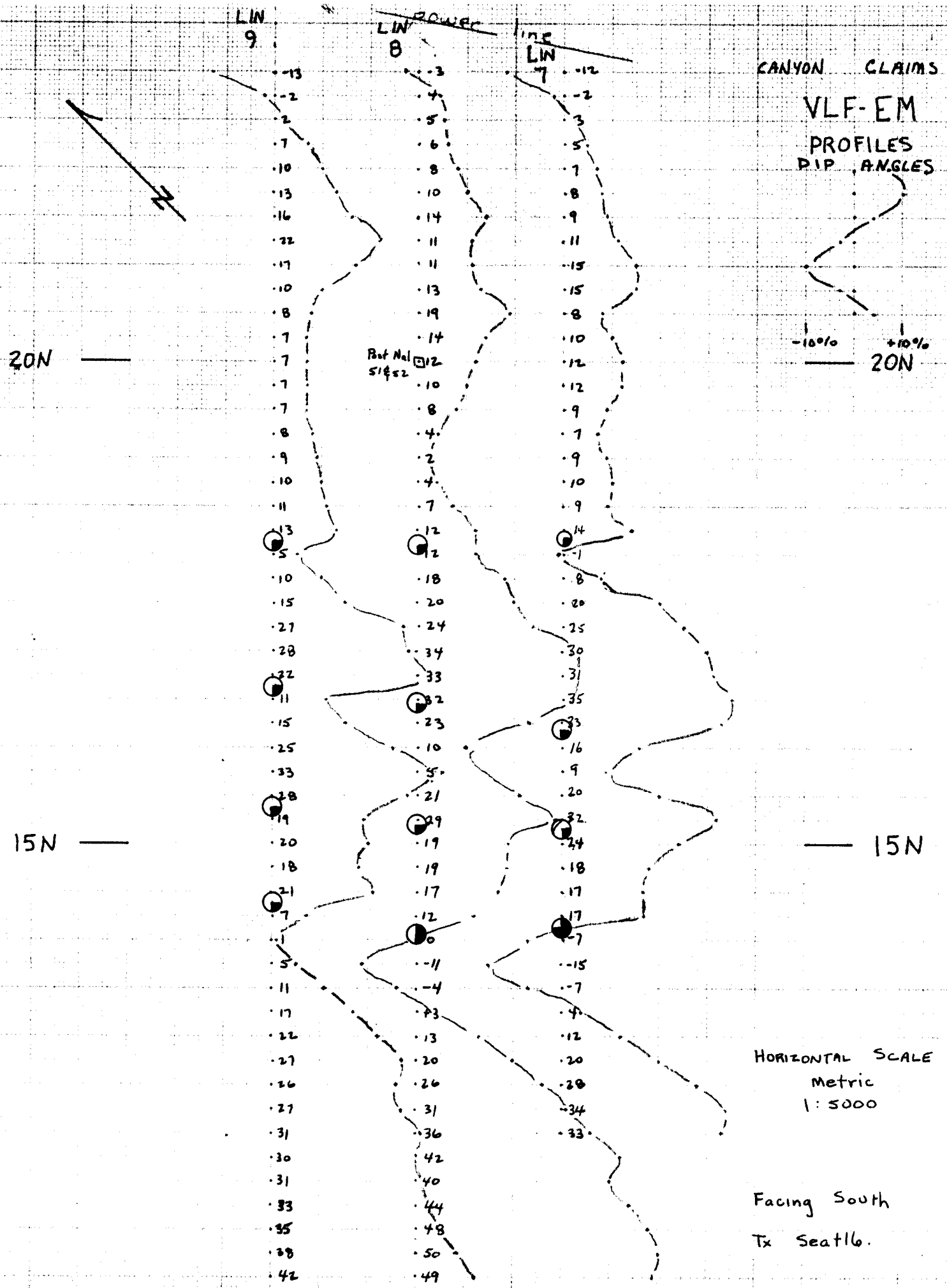
CANYON CLAIMS

VLF-EM
DIP ANGLE
PROFILES



CANYON CLAIMS

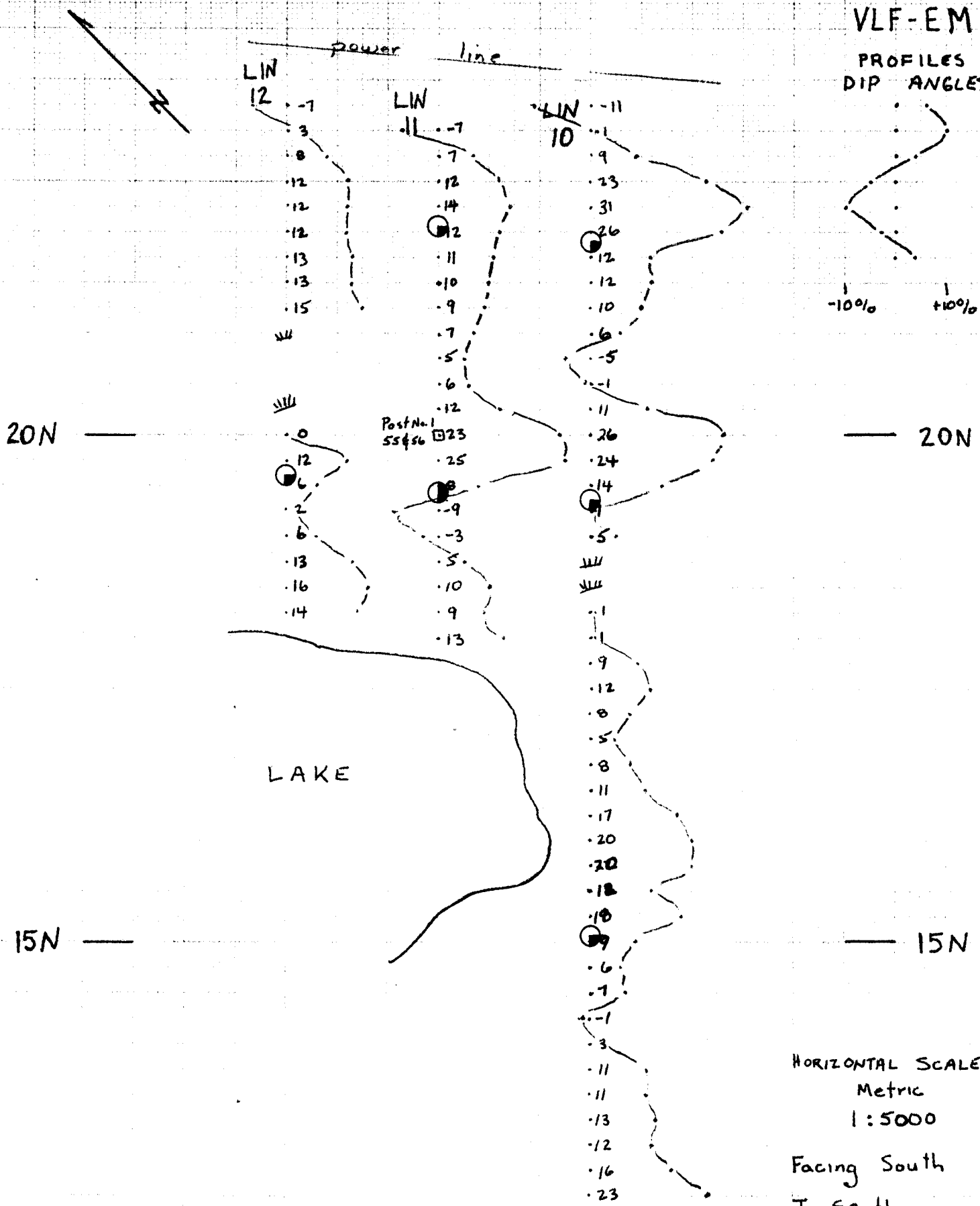
VLF-EM
PROFILES
DIP ANGLES



CANYON CLAIMS

VLF-EM

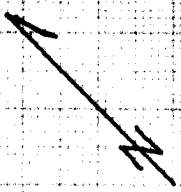
PROFILES
DIP ANGLES



HORIZONTAL SCALE
Metric
1:5000

Facing South
Tx. Seattle

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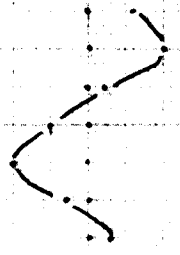


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LIN 13
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CANYON CLAIMS
 VLF-EM
 PROFILES
 DIP ANGLES



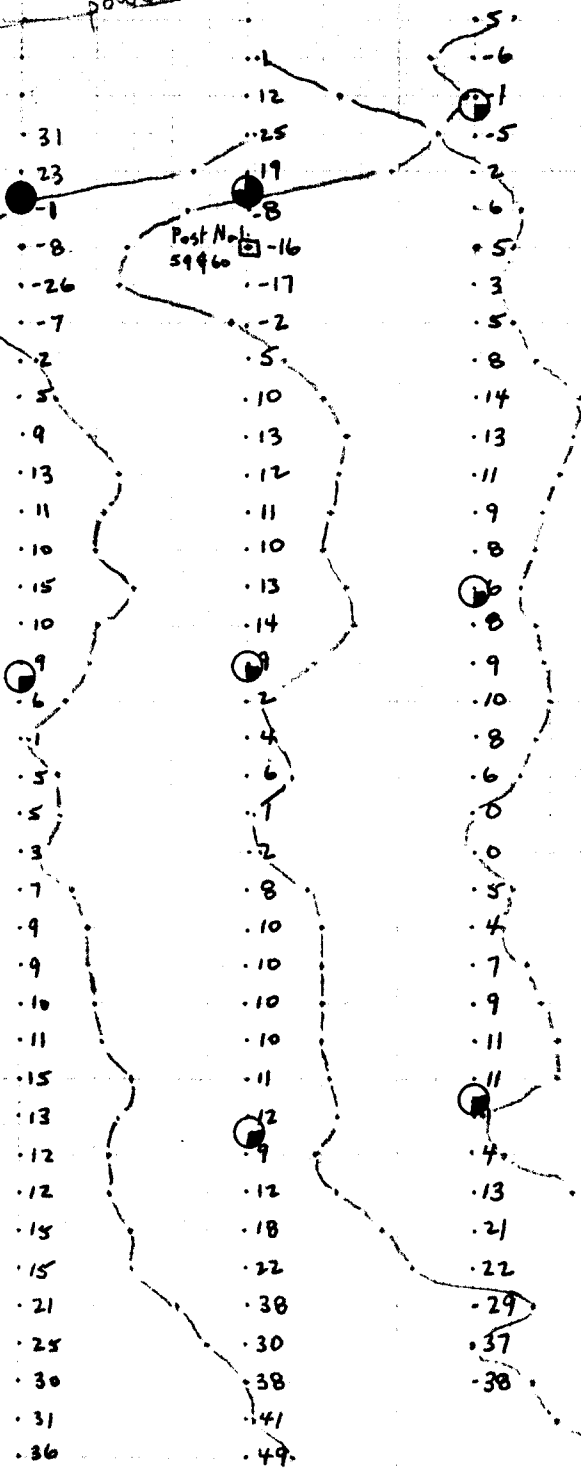
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15N —

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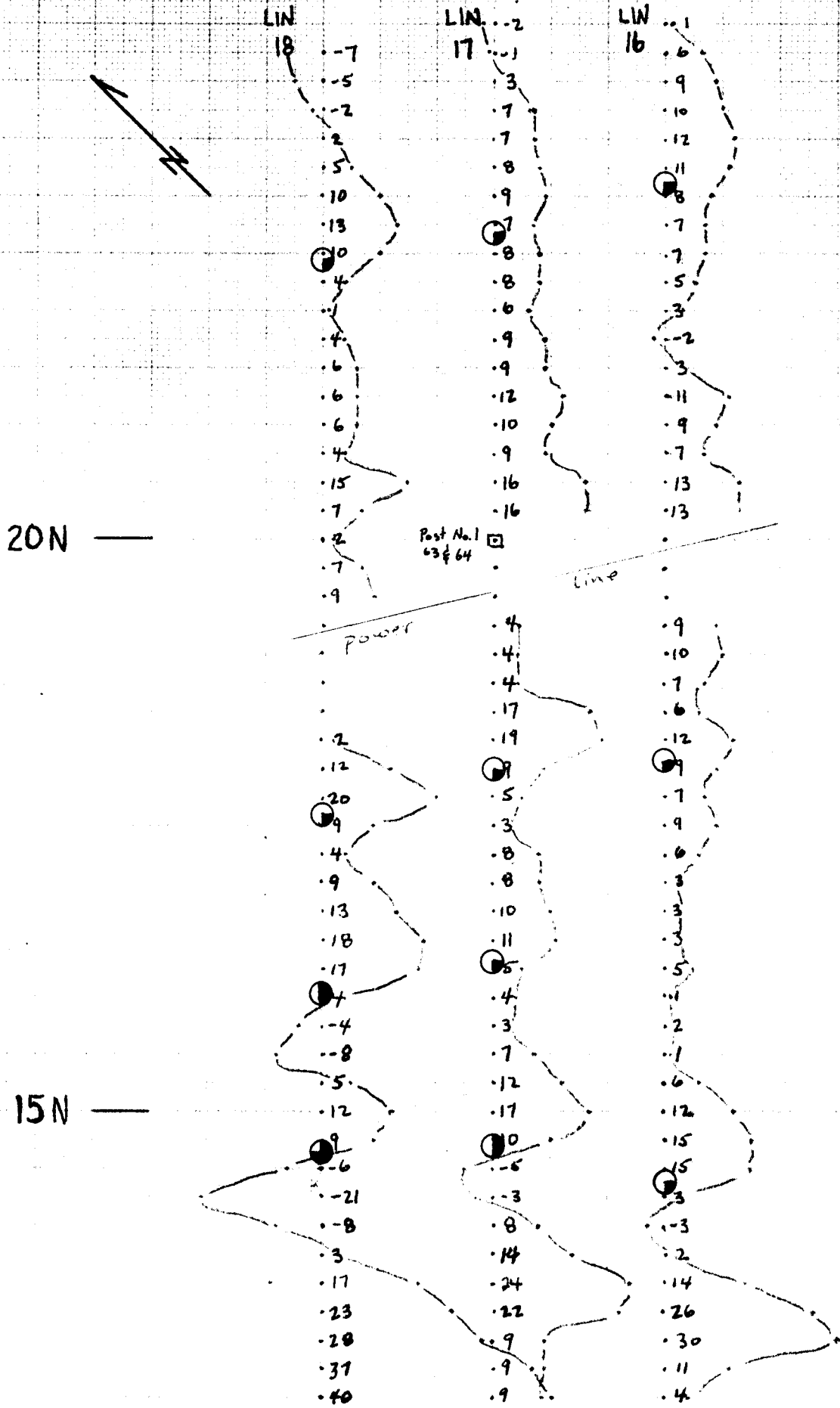
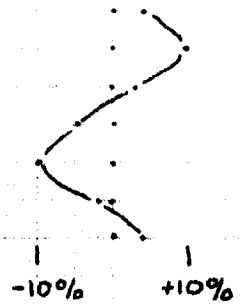
HORIZONTAL SCALE
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CANYON CLAIMS

VLF-EM
DIP ANGLE
PROFILES



20N —

— 20N

15N —

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HORIZONTAL SCALE
Metric
1: 5000

Facing South
Tx. Seattle

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CANYON CLAIMS

VLF-EM

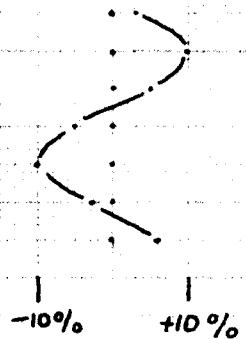
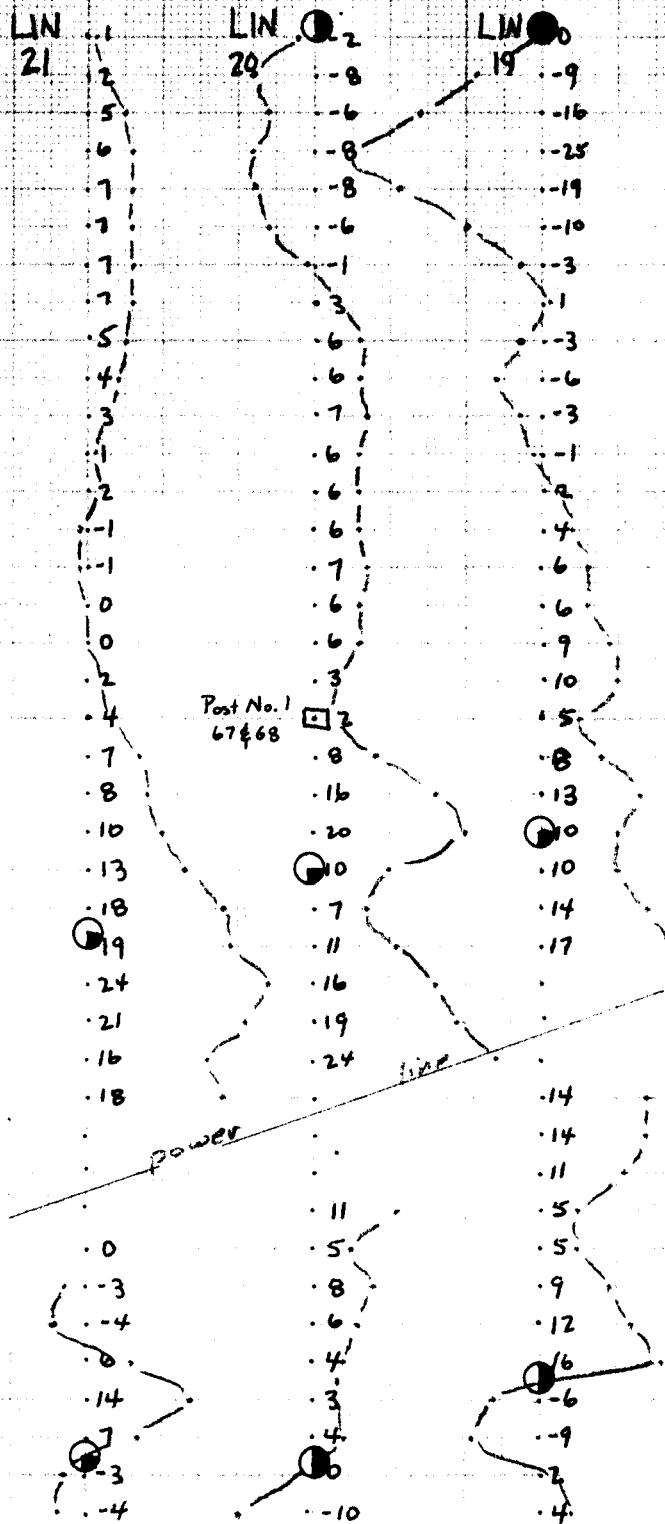
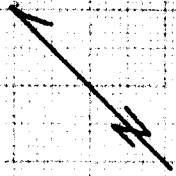
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PROFILES

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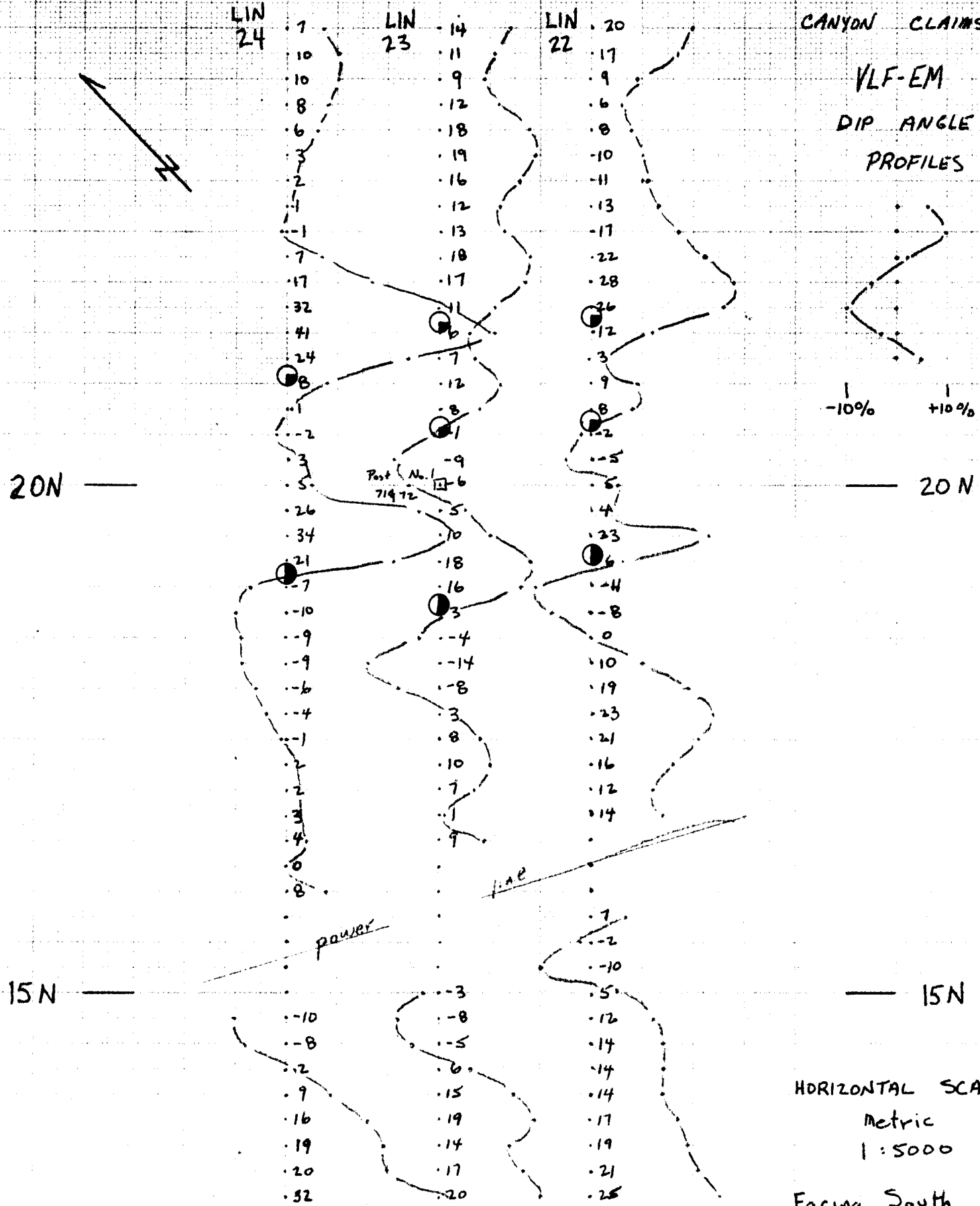
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Facing South
Tx. Seattle

Reconn. 1984

CANYON CLAIMS

VLF-EM
DIP ANGLE
PROFILES



HORIZONTAL SCALE

Metric
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Facing South
Tx. Seattle

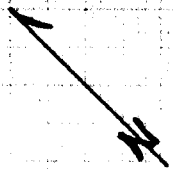
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CANYON CLAIMS

VLF-EM

DIP ANGLE

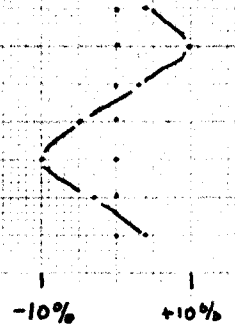
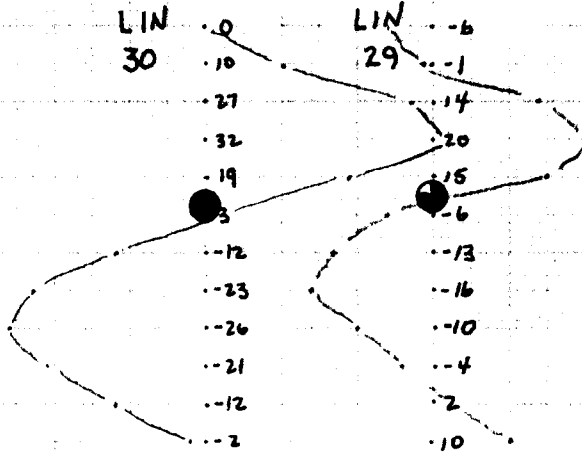
PROFILES



LIN 31

LIN 30

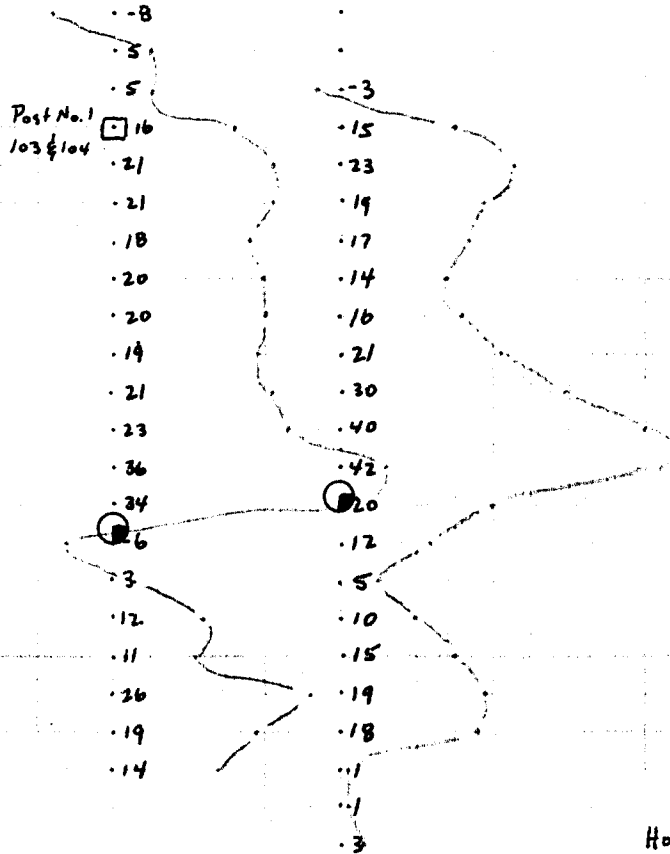
LIN 29



power line

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Post No. 1 103 & 104

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HORIZONTAL Scale
Metric

1:5000

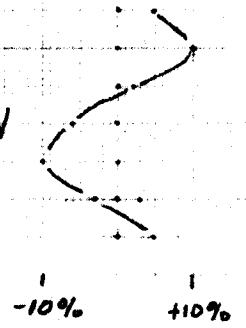
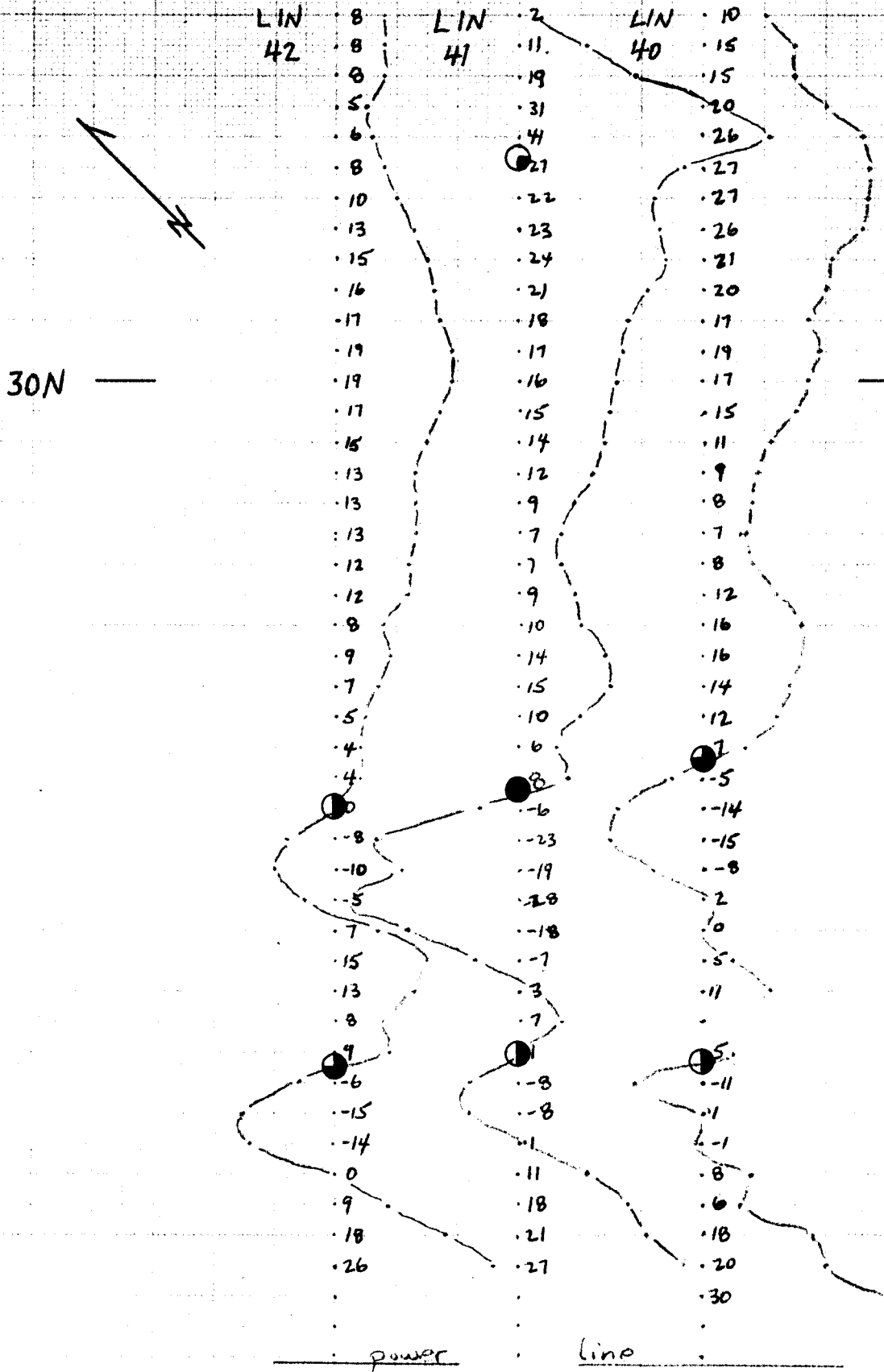
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CANYON CLAIMS

VLF-EM

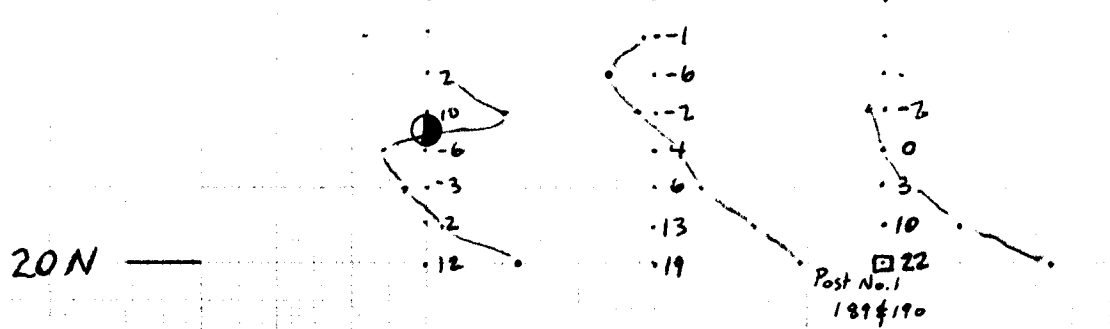
DIP ANGLE
PROFILES



HORIZONTAL SCALE
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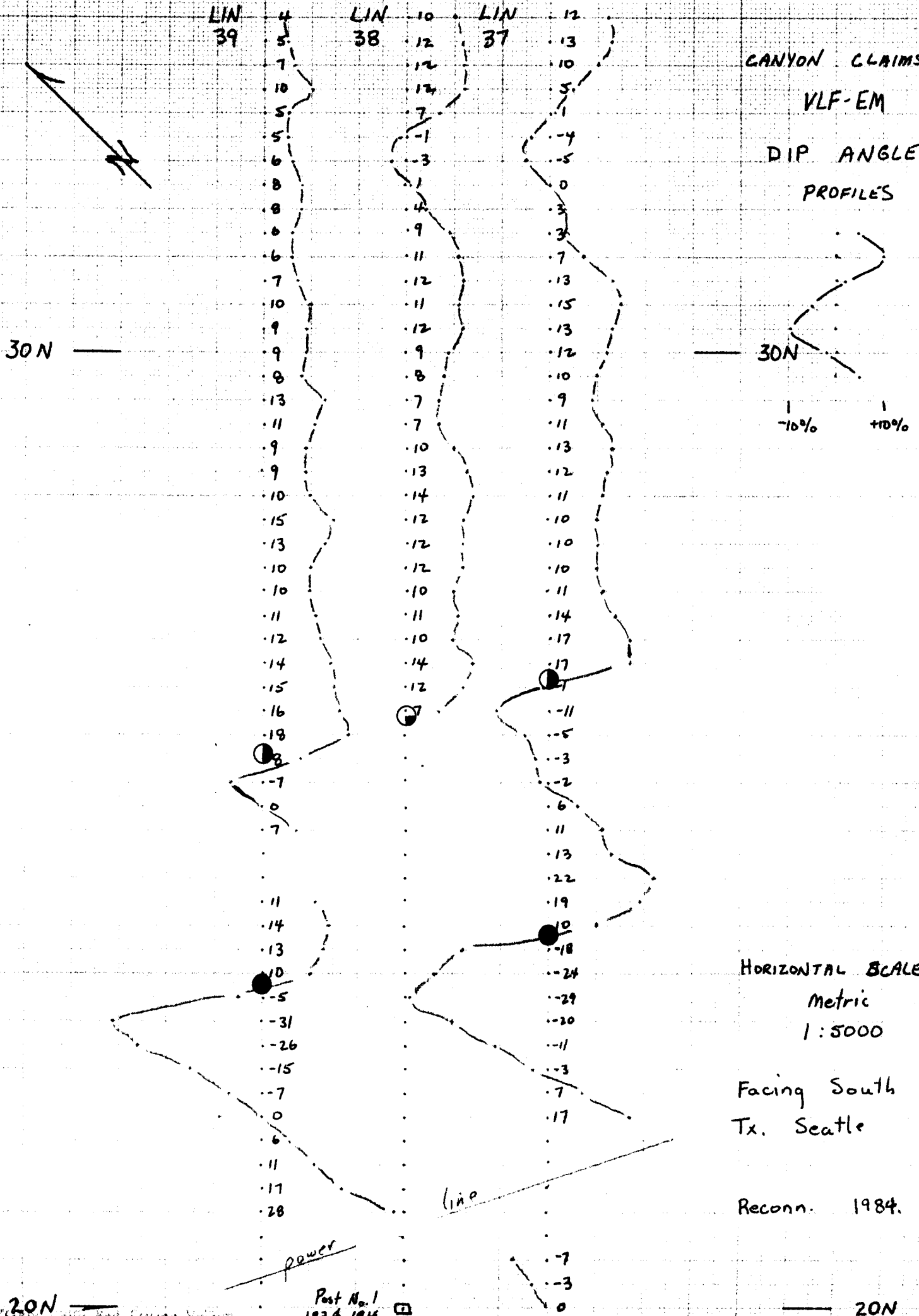
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CANYON CLAIMS
VLF-EM
DIP ANGLE
PROFILES

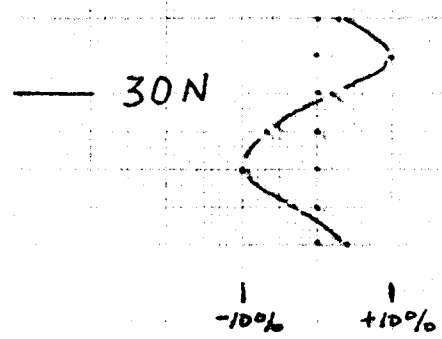
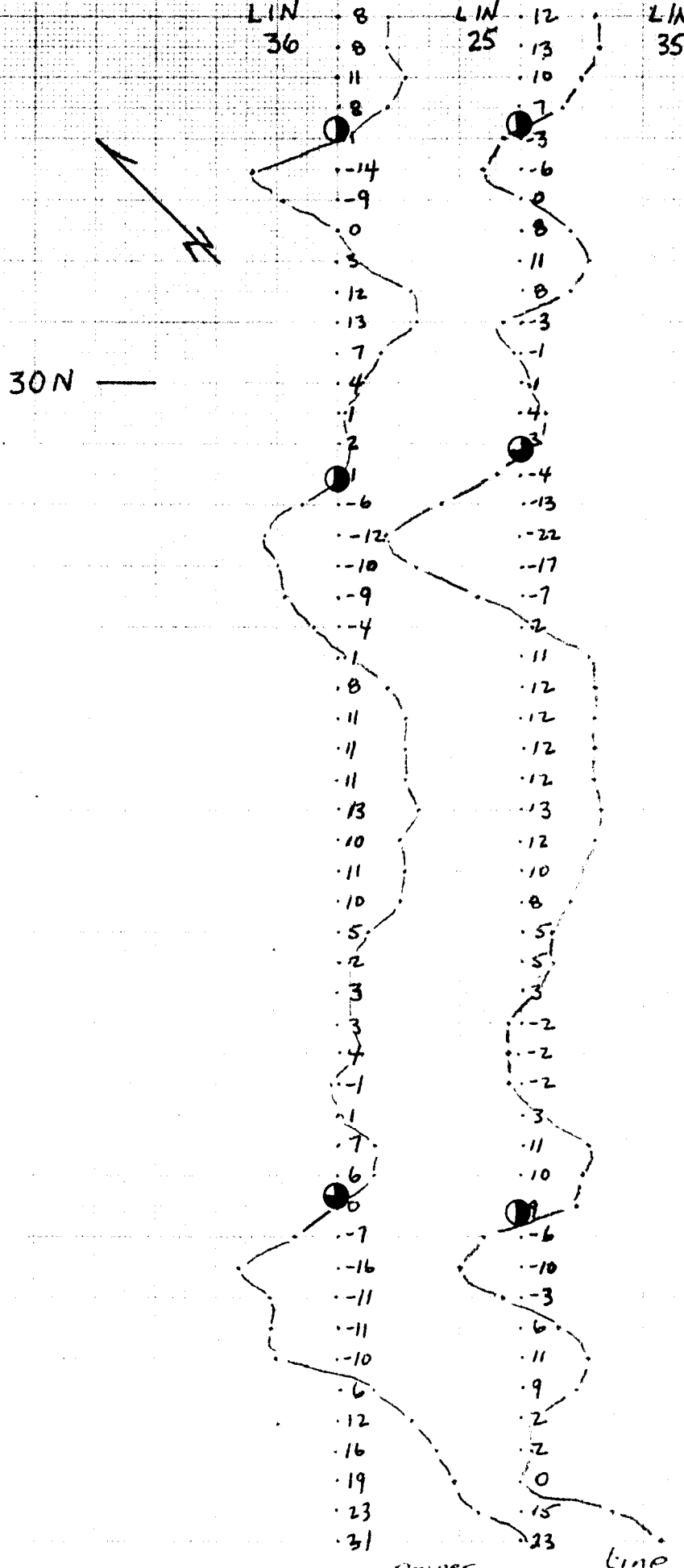


HORIZONTAL SCALE
Metric
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Facing South
Tx. Seattle

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CANYON CLAIMS
VLF-EM
DIP ANGLE
PROFILES



HORIZONTAL SCALE
Metric
1:5000

Facing South
Tx. Seattle

Reconn. 1984
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1978/198

CANYON CLAIMS

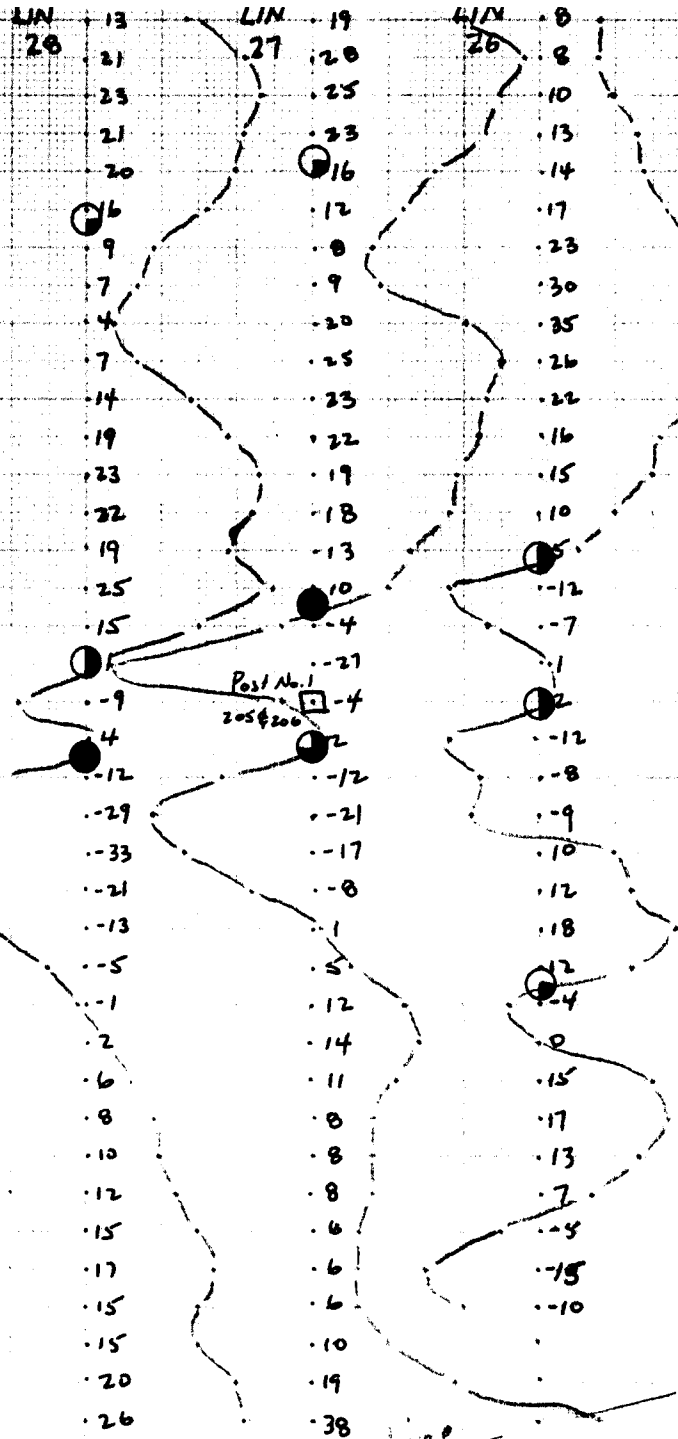
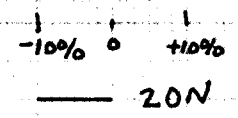
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DIP ANGLE

PROFILES



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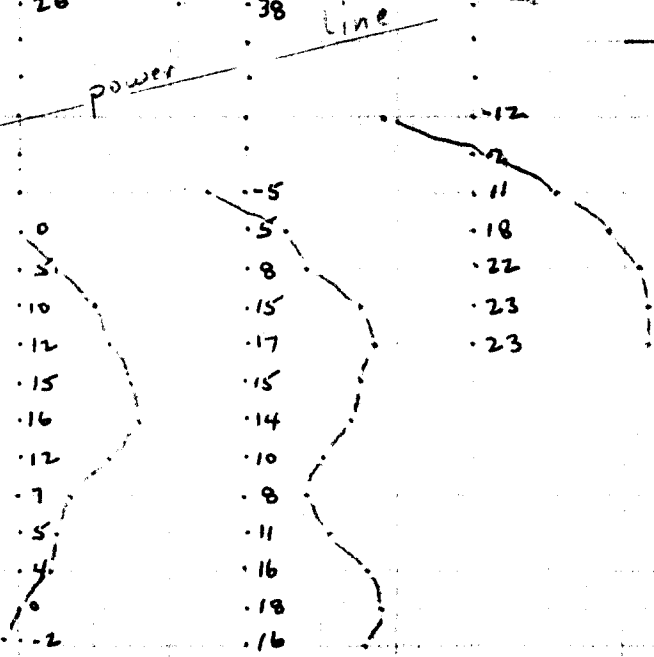
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HORIZONTAL SCALE
Metric
1:5000

Facing South
Tx. Seattle.

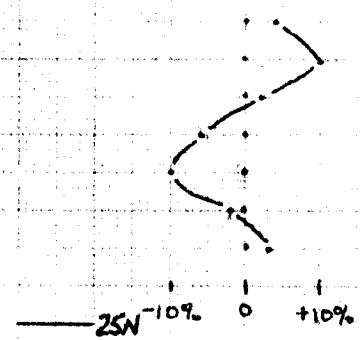
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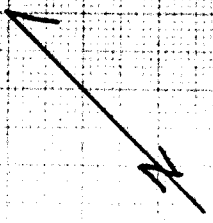
CANYON CLAIMS

VLF-EM

DIP ANGLE
PROFILES



— 25N — 10% 0 +10%



LIN 47
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18

LIN 46
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11
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Post No.
209 & 210

25N —

20N —

— 20N

HORIZONTAL SCALE
Metric
1:5000

Facing South
Tx. Seattle

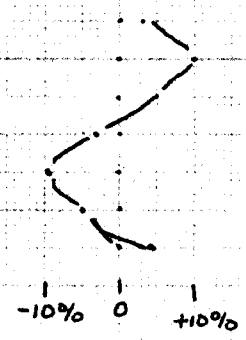
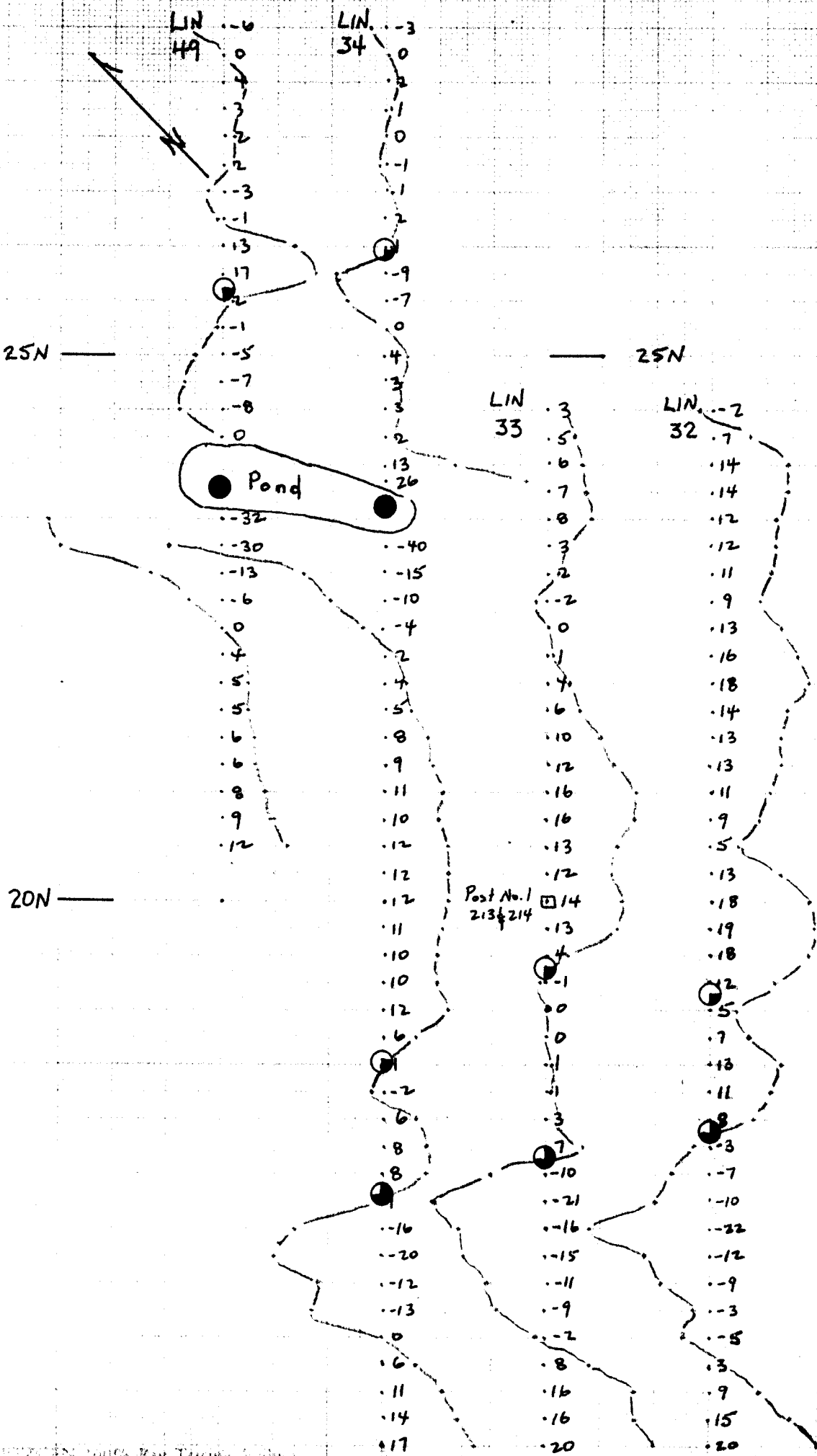
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CANYON CLAIMS

VLF-EM

DIP ANGLE

PROFILES



HORIZONTAL SCALE
Metric
1:5000

Facing South
Tx. Seattle

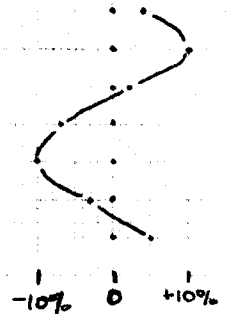
Reconn. 1984

CANYON CLAIMS

VLF-EM

DIP ANGLE

PROFILES



LIN 51

LIN 50

LIN 52

LIN 53

Post No. 1
2174218

Lake

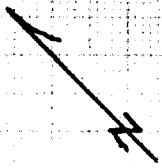
power line

HORIZONTAL SCALE

Metric
1:5000

Facing South
Tx Seattle.

Reconn. 1984

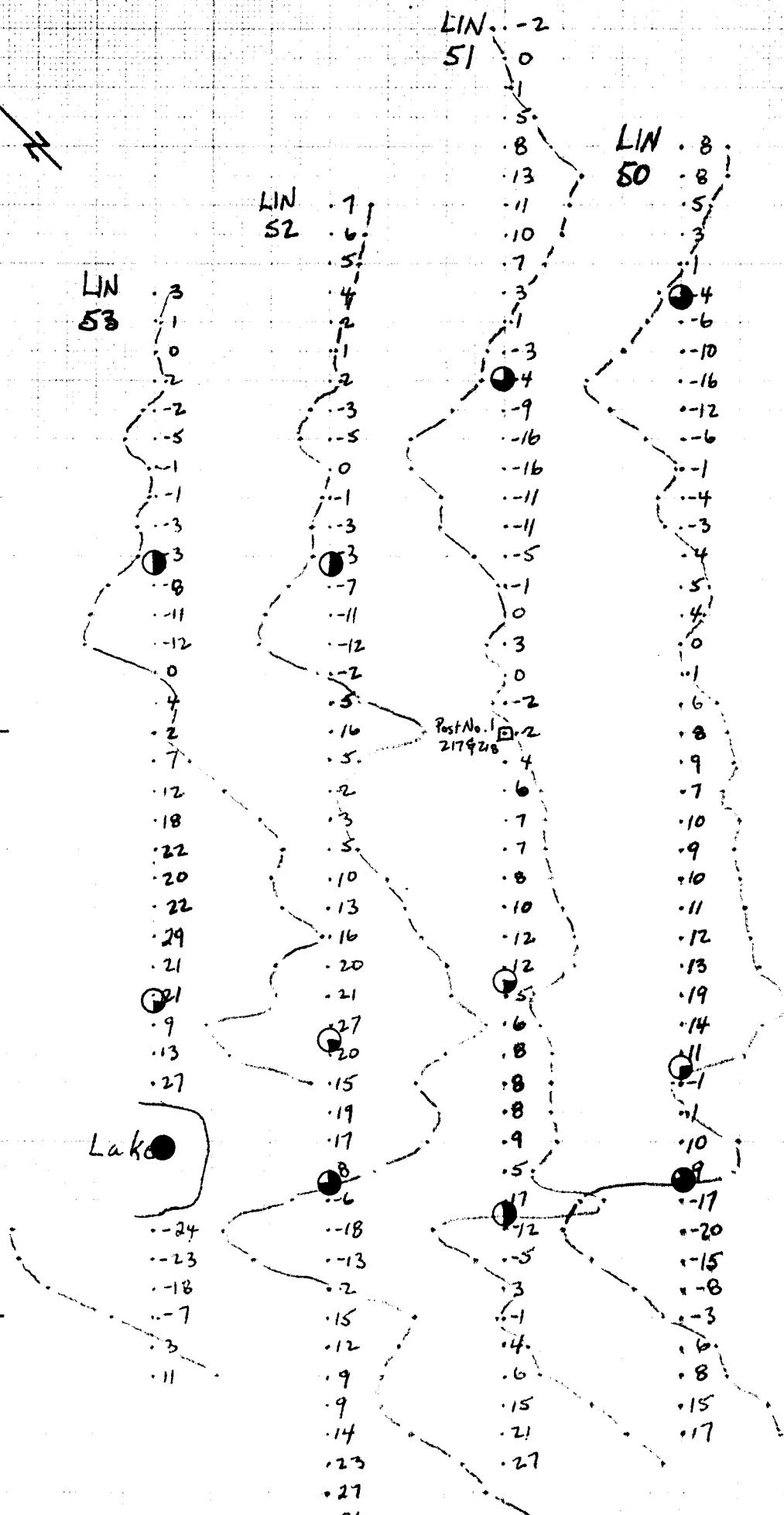


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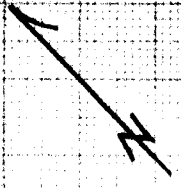


APPENDIX II

MAGNETIC SURVEY

RECONNAISSANCE LINES

READING PROFILES

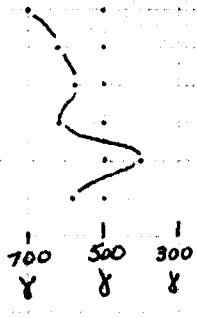


LIN 3
 690
 689
 729
 700
 748
 707
 687
 636
 686
 706
 685
 705
 614
 644
 663
 639
 599
 579
 559
 599
 609
 600
 618
 588
 588
 558
 567
 537
 597
 577
 557
 546
 606
 596
 576
 575
 595
 615
 625
 604
 504
 884
 604
 584
 643
 602
 631
 631
 641

LIN 2
 760
 780
 720
 740
 740
 780
 690
 780
 750
 730
 760
 720
 750
 720
 780
 700
 690
 700
 Post No. 444 700
 690
 672
 692
 693
 653
 683
 834
 815
 775
 776
 817
 777
 848
 789
 839
 859
 880
 830
 391
 822
 862
 863
 103
 674
 625
 548
 659
 570
 571
 672
 652
 603

LIN 1
 760
 700
 760
 720
 700
 680
 720
 730
 720
 680
 720
 660
 700
 720
 700
 740
 680
 670
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 657
 607
 616
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 605
 584
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 531
 511
 610
 570
 589
 599
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 586
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 630
 659
 608

PROFILES



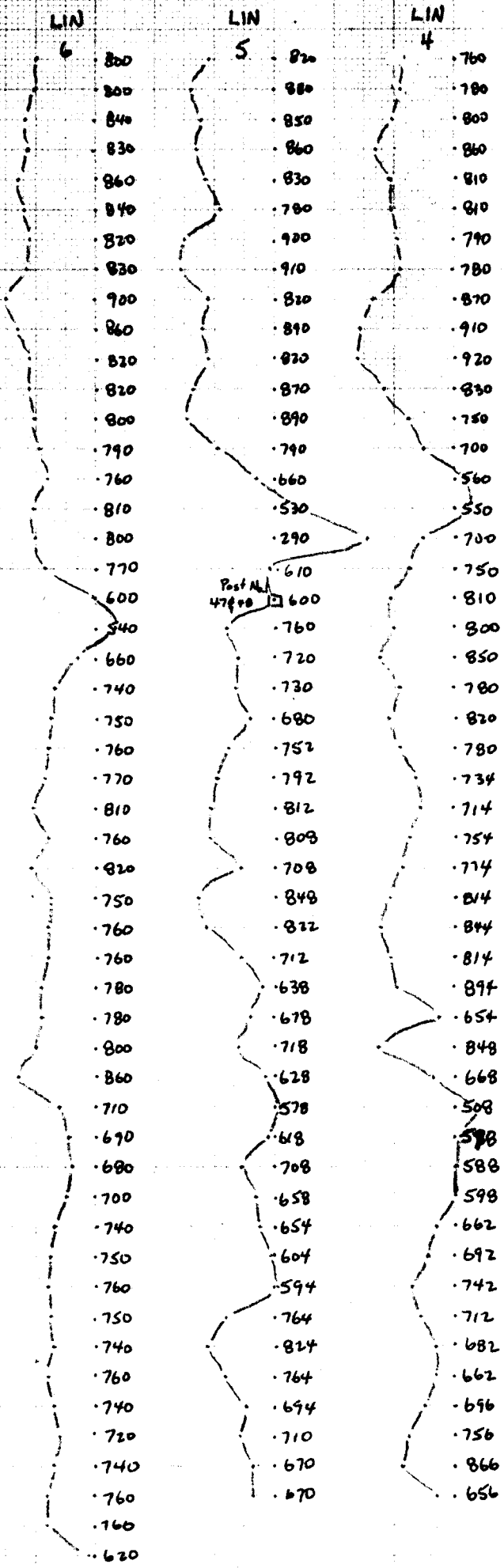
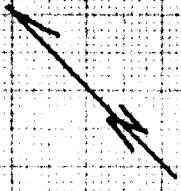
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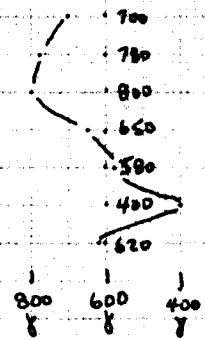
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CANYON CLAIMS
 MAGNETIC SURVEY
 Fluxgate Magnetometer
 SCINTREX MODEL MF-2
 Scale metric 1:5000



PROFILES



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— 20N

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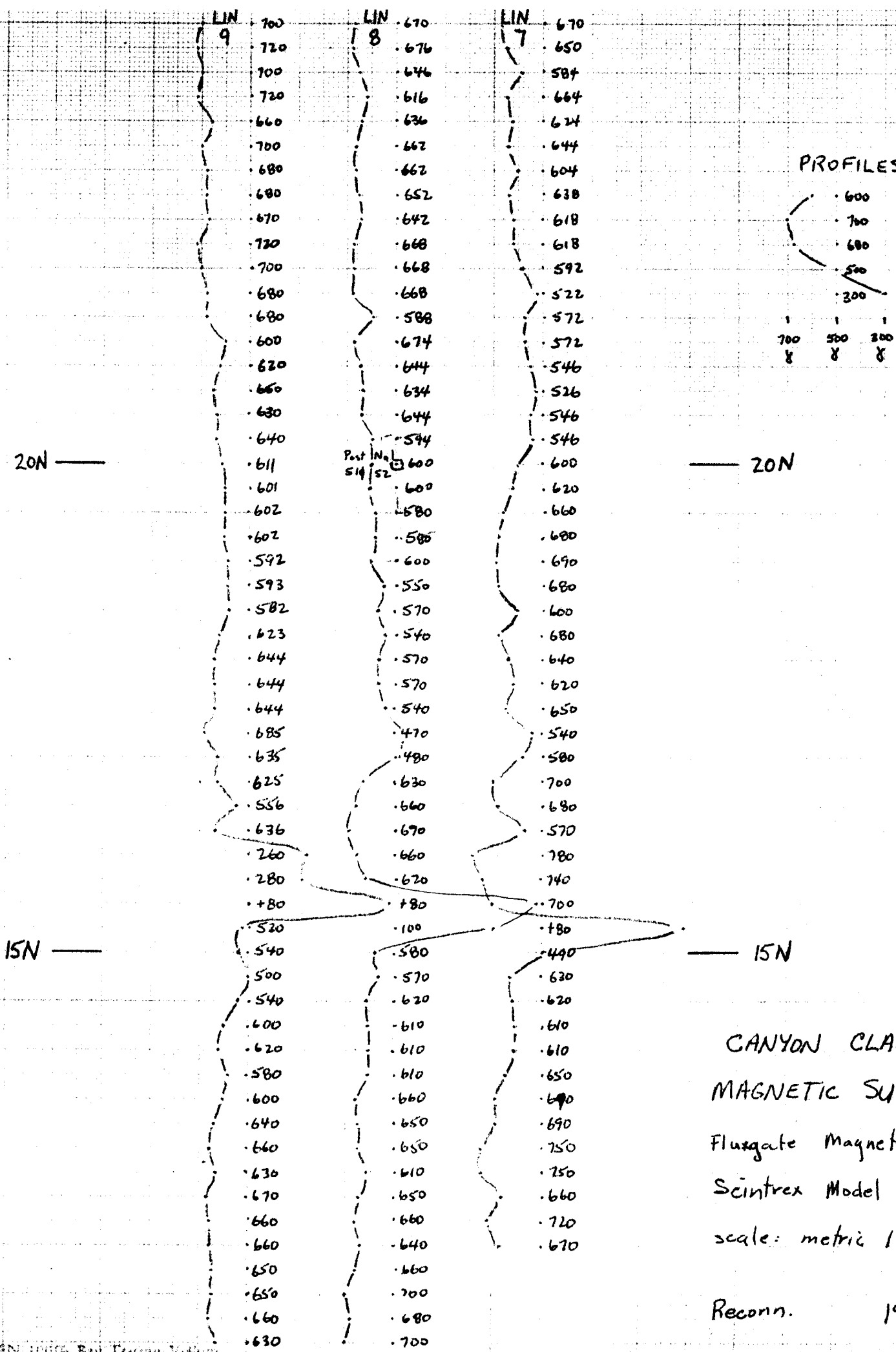
— 15N

CANYON CLAIMS
MAGNETIC SURVEY

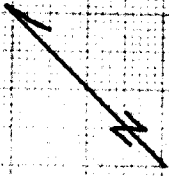
Fluxgate Magnetometer
Scintrex Model MF-2

Scale metric 1:5000

Reconn. 1984



CANYON CLAIMS
MAGNETIC SURVEY
Fluxgate Magnetometer
Scintrex Model MF-2
scale: metric 1:5000
Reconn. 1984



LN 12
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 723
 673
 723
 706
 726
 786
 666
 689
 679
 689
 709
 662
 702

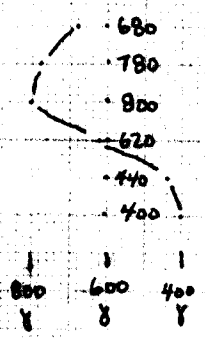
LIN 11
 766
 766
 576
 652
 712
 712
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 702
 708
 688
 708
 668
 668
 684
 704
 704
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 710
 700
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 667
 627
 647
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 641
 631

LN 10
 764
 484
 614
 714
 764
 708
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 708
 668
 688
 712
 672
 732
 652
 732
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 416
 508
 496
 556
 630
 630
 630
 660
 660
 664
 624
 684

682
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 678
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 678
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Post No. 53456

PROFILES



ZON

ZON

ISN

ISN

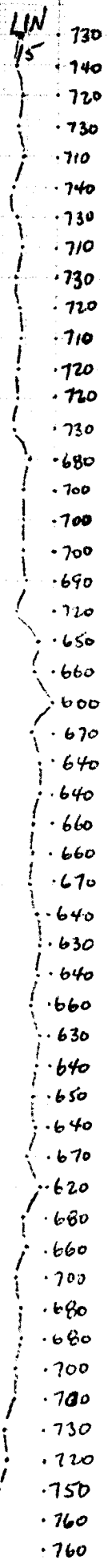
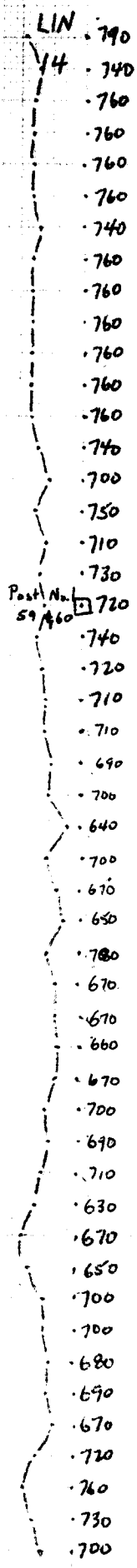
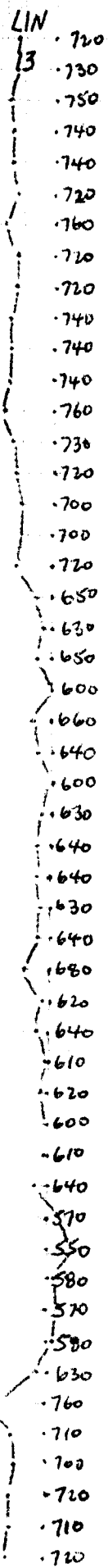
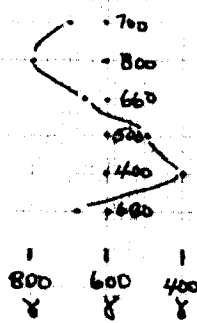
Lake

CANYON CLAIMS
 MAGNETIC SURVEY

Fluxgate magnetometer
 Scintrex Model MF-2
 scale: metric 1:5000

Reconn. 1984

PROFILES



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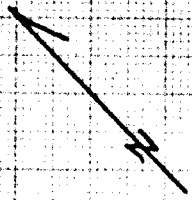
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CANYON CLAIMS

MAGNETIC SURVEY
 Fluxgate Magnetometer
 SCINTREX MODEL MF-2
 Scale metric 1:5000

Reconn. 1984



LIN 18

760
720
740
700
700
680
610
590
640
690
710
710
690
700
740
760
600
740
700
720
730
760
950
100
280
520
740
700
650
620
660
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680
670
670
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660
700
700
700
700
710
720
720
720
660
740

LIN 17

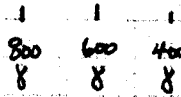
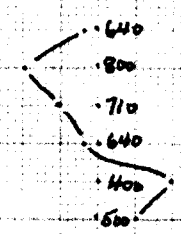
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720
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740
750
700
700
700
680
760
760
730
750
760
710
798
937
697
476
666
745
755
734
744
713
693
712
732
711
701
800
750
699
709
738
788
727
787
746
766
745
715
724

Pos. No. 16344

LIN 16

780
820
800
800
740
740
820
710
750
760
750
660
580
670
700
720
780
780
747
427
688
688
707
749
580
680
661
671
702
632
633
673
614
774
635
675
666
726
677
677
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760
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711
782

PROFILES



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15N

CANYON CLAIMS

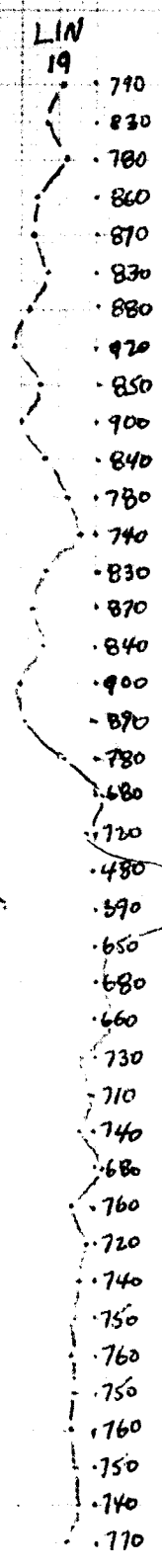
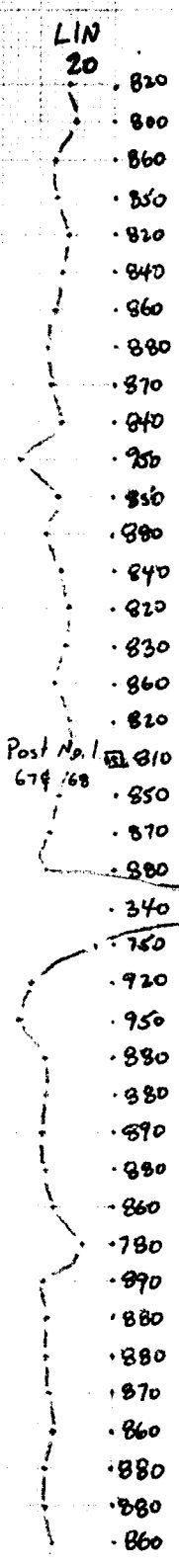
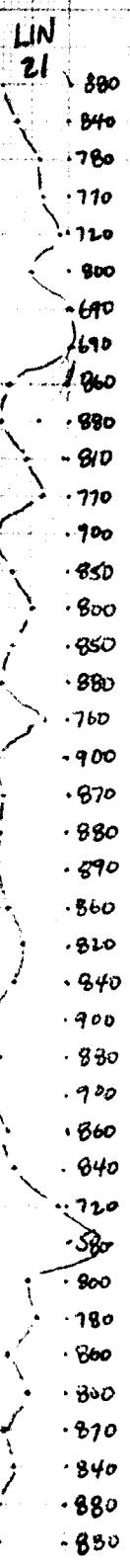
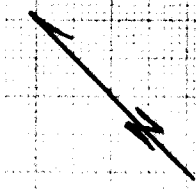
MAGNETIC SURVEY

Fluxgate Magnetometer

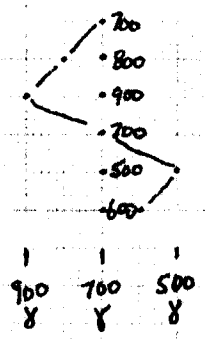
Scintrex Model: MF-2

scale metric: 1:5000

Reconn. 1984



PROFILES



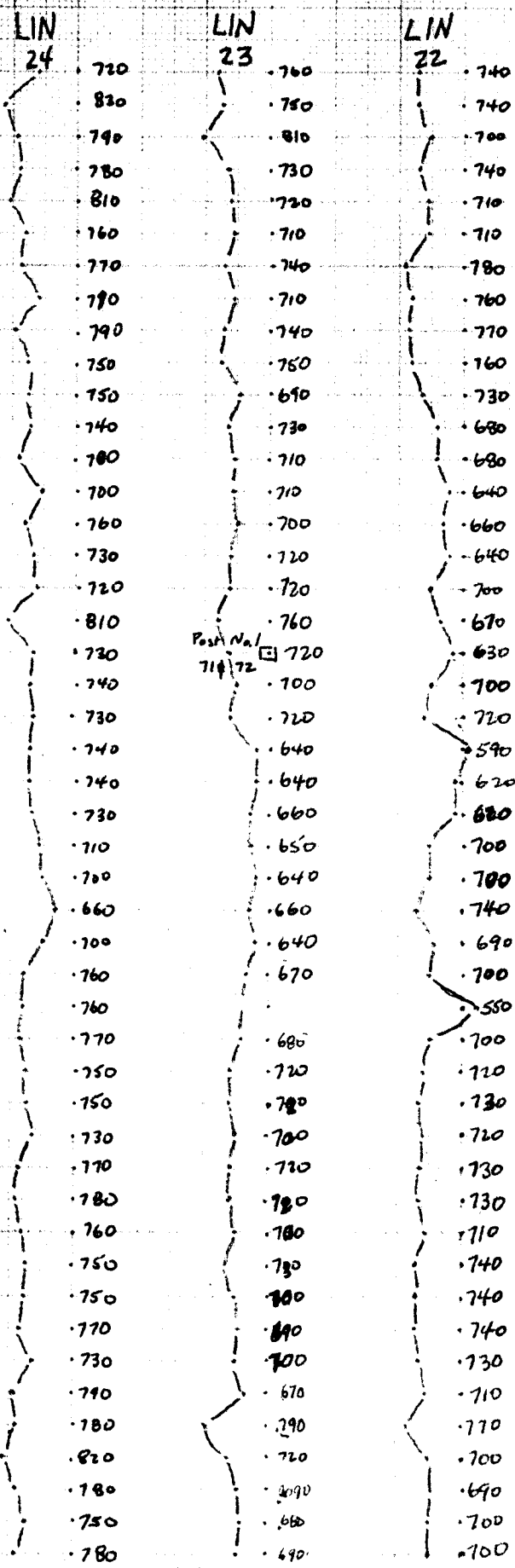
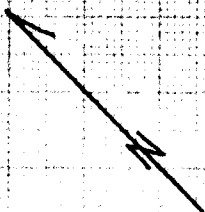
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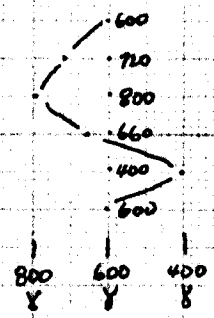
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15N

CANYON CLAIMS
 MAGNETIC SURVEY
 Fluxgate magnetometer
 Scintrex Model: MF-2
 Scale metric: 1:5000
 Recon. 1984



PROFILES



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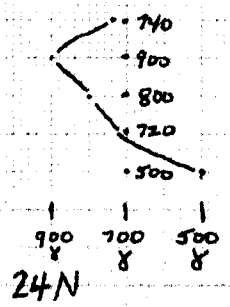
CANYON CLAIMS

MAGNETIC SURVEY

Fluxgate Magnetometer
 Scintrex Model: MF-2
 Scale metric: 1:5000
 Recon. 1984



PROFILES

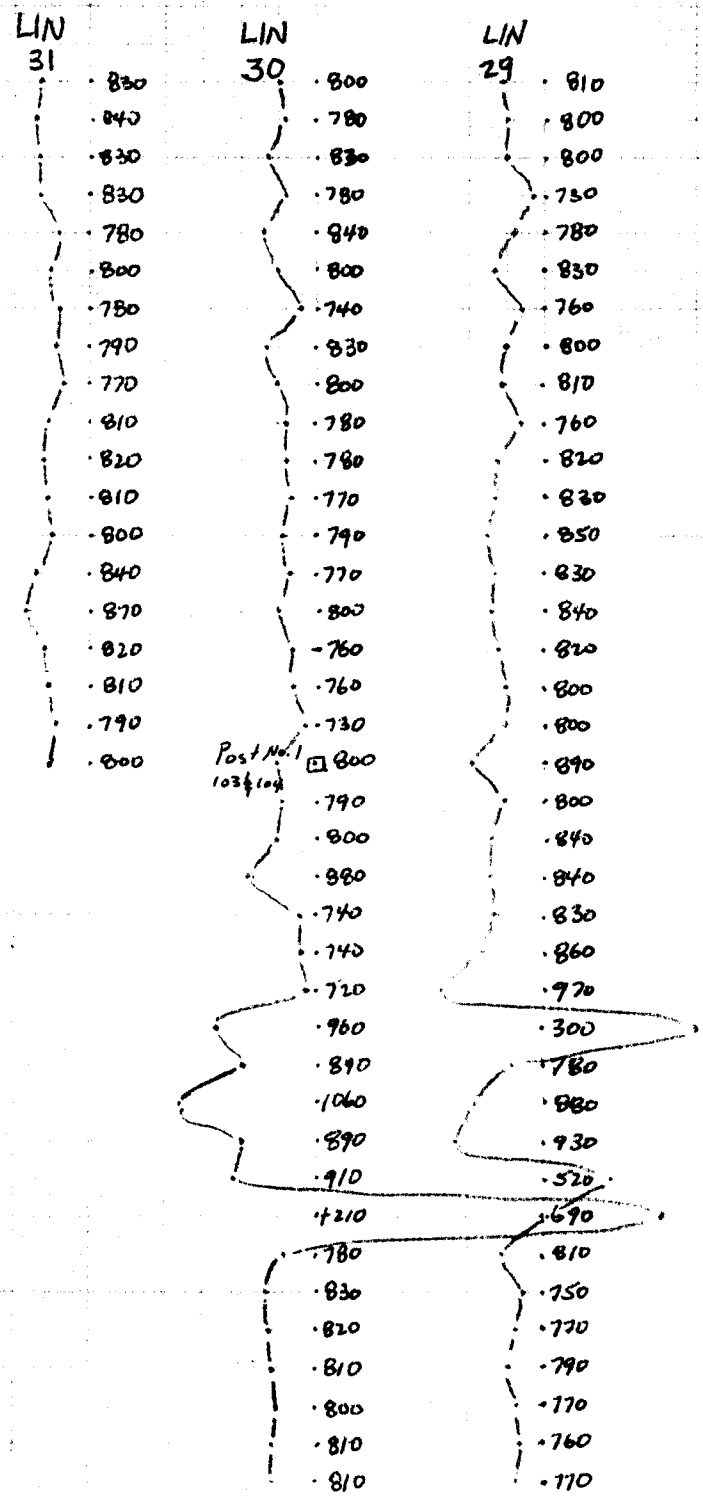


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24N

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20N



CANYON CLAIMS

MAGNETIC SURVEY

Fluxgate Magnetometer

Scintrex Model: MF-2

Scale metric 1:5000

Reconn. 1984



LIN
42

440
 700
 670
 670
 680
 700
 680
 680
 680
 640
 720
 680
 650
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 680
 630
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30N

LIN
41

720
 750
 770
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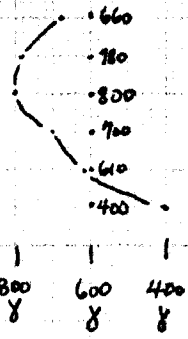
LIN
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 660
 640
 610
 560
 700

Pond

Post No. 1 100
1894190

PROFILES



30N

CANYON CLAIMS

MAGNETIC SURVEY

Fluxgate Magnetometer

scintrex Model: MF-2

Scale Metric 1:5000

Reconn. 1984

20N

20N

LIN 39

LIN 38

LIN 37



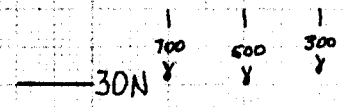
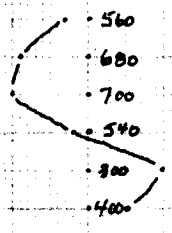
30N

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490

PROFILES



CANYON CLAIMS MAGNETIC SURVEY

Fluxgate Magnetometer
Sciintrex Model: MF-2

Scale (metric) 1:5000

Reconn. 1984

20N

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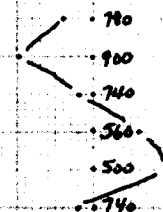
Post No. 11 570
100 & 101

LIN 36

LIN 25

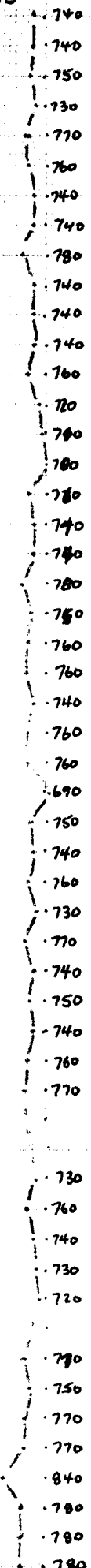
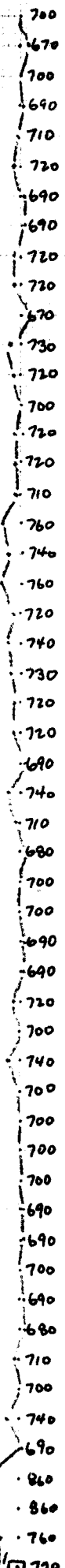
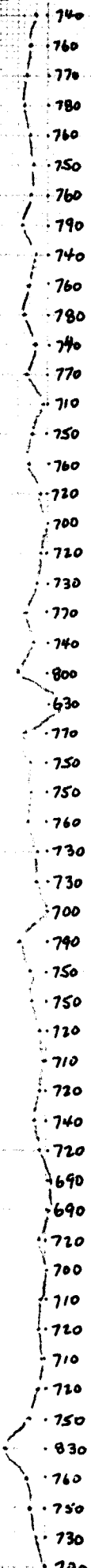
LIN 35

PROFILES



30N

30N



CANYON CLAIMS

MAGNETIC SURVEY

Fluxgate Magnetometer
Scintrex Model: MF-2

Scale (metric) 1:5000

Reconn. 1984

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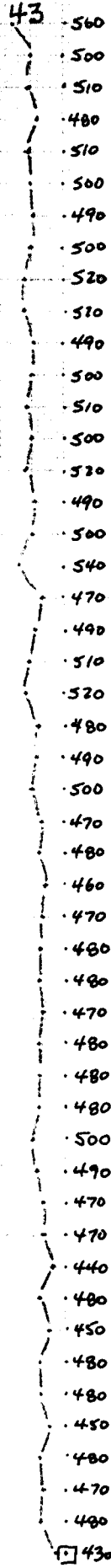
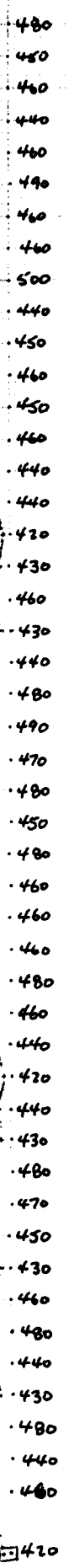
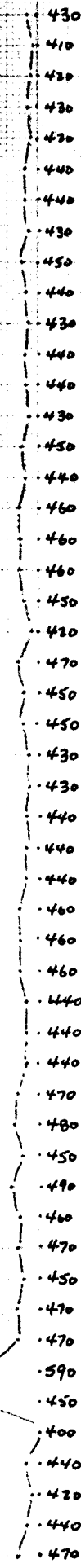
Post No. 110

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LIN 45

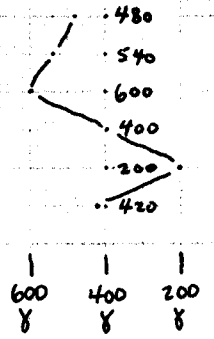
LIN 44

LIN 43



30N

PROFILES



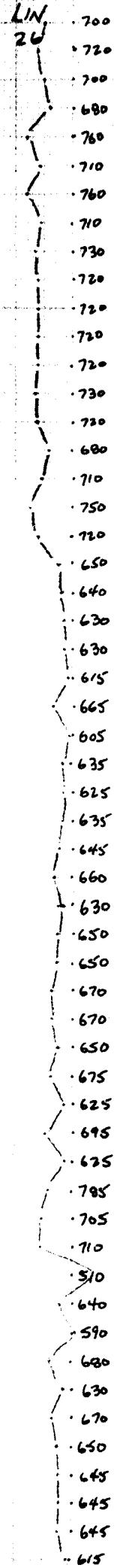
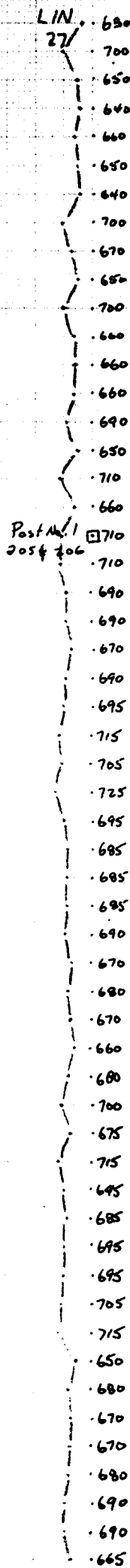
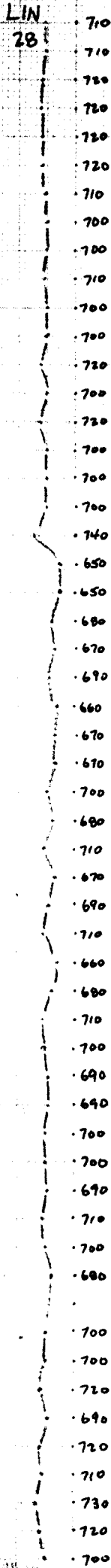
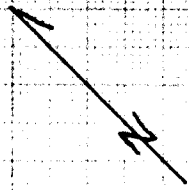
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Post No. 201 & 202

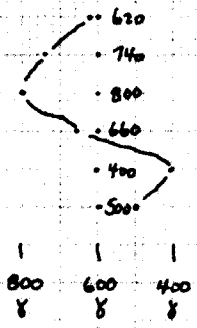
20N

CANYON CLAIMS
MAGNETIC SURVEY
Fluxgate Magnetometer
Scintrex Model: MF-2
Scale (metric) 1:5000

Reconn. 1984



PROFILES



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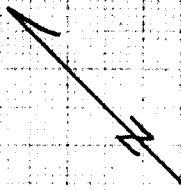
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**CANYON CLAIMS
MAGNETIC SURVEY**

Fluxgate Magnetometer
Scintrex Model: MF-2

Scale (metric) 1:5000

Reconn. 1984



Lake

LIN 47
482
479

LIN 46
467
469
473

LIN 48
495
481

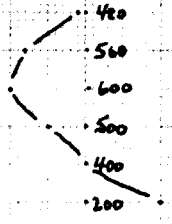
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- 474
- 470
- 472
- 422
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Post No. 1 448
209 & 210

PROFILES



600 Y
400 Y
200 Y

25N

25N

20N

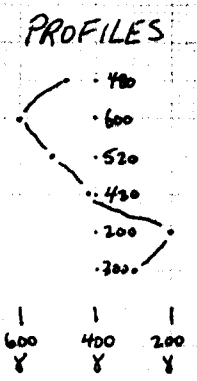
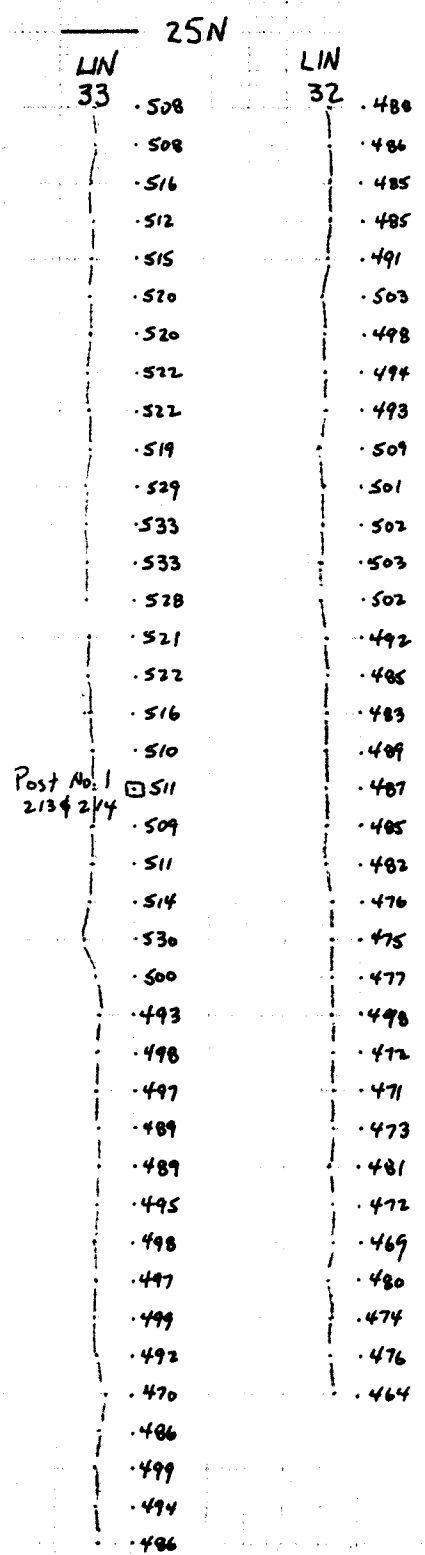
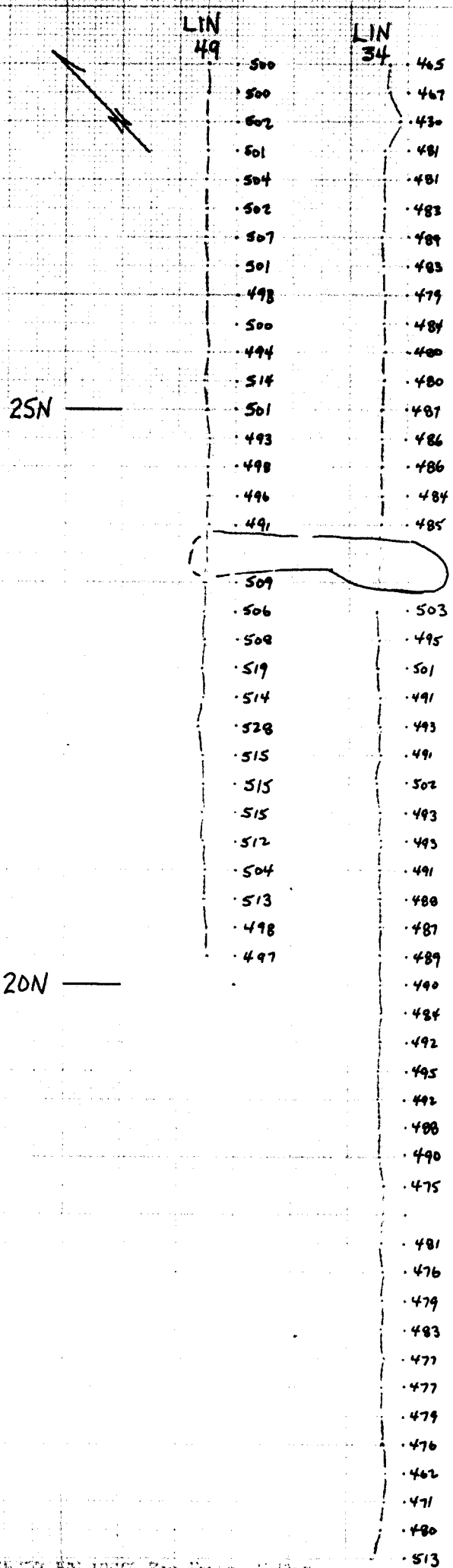
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CANYON CLAIMS
MAGNETIC SURVEY

PROTON MAGNETOMETER
Geometrics Model: 816

Scale metric 1:5000

Reconn. 1984

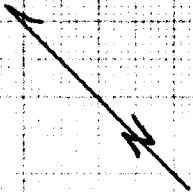


CANYON CLAIMS
MAGNETIC SURVEY

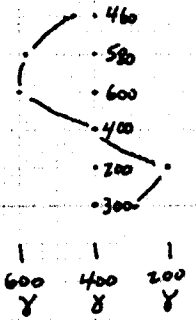
PROTON MAGNETOMETER
GEOMETRICS MODEL 816

Scale (metric) 1:5000

Reconn. 1984



PROFILES



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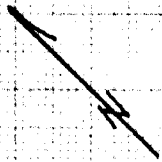
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CANYON CLAIMS
MAGNETIC SURVEY

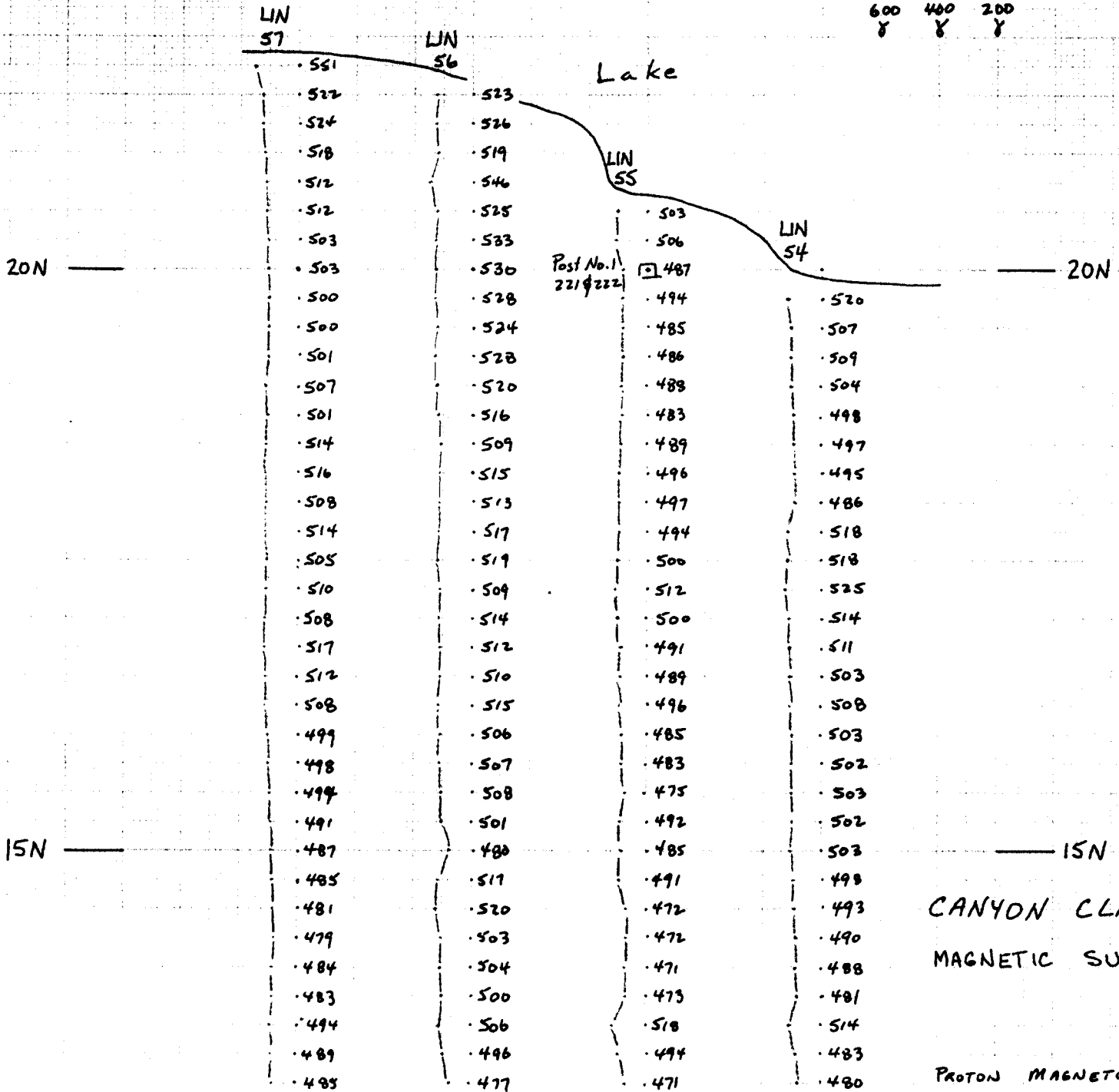
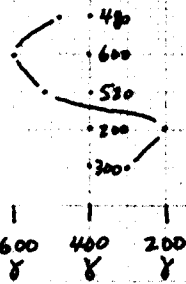
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GEOMETRICS MODEL: 816

Scale (metric) 1:5000

Reconn. 1984



PROFILES

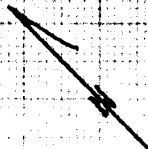


CANYON CLAIMS MAGNETIC SURVEY

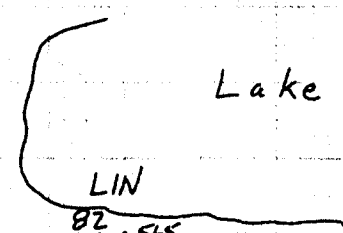
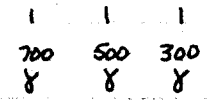
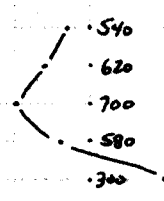
PROTON MAGNETOMETER
Geometrics Model: 816

Scale (metric) 1:5000

Reconn. 1984



PROFILES



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Post No. 2
221 & 222

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CANYON CLAIMS

MAGNETIC SURVEY

PROTON MAGNETOMETER

Geometrics Model : 816

Scale (metric) 1:5000

Reconn. 1984

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Pond

APPENDIX III

SUMMARY OF EXPENDITURES:

SALARIES & WAGES (Includes Fringe Benefits)

R. Stroshein	12 days @ 200\$/day	\$ 2,400.00	
C. McAtee	56 days @ 150\$/day	8,400.00	
R. Conner	38 days @ 85\$/day	3,230.00	
R. Bidwell	45 days @ 75\$/day	3,375.00	
B. Matiation	9 days @ 100\$/day	<u>900.00</u>	\$ 18,305.00

RENTALS

EM-16 (Geonics)	6 weeks @ 180\$/week	1,080.00	
Truck (Norcan)	2 months @ 900\$/month	<u>1,800.00</u>	2,880.00

ASSAYING (Geochemical)

Rock	56 samples @ 19.20 each	1,075.20	
Soil or silt sampeles	50 samples @ 11.20 each	<u>560.00</u>	1,635.20

SUPPLIES

Air photographs (NAPL)	51 photos @ 2.50 ea.	127.50	
Flagg (Nortech)	90 rolls @ 2.00 each	180.00	
	59 rolls @ 1.75 each	87.50	
Top-o-fil thread (Nortech)			
	40 rolls @ 3.00 each	120.00	
	32 rolls @ 2.50 each	80.00	
Base Map Reprographs (Nortech)		220.00	
Mylars	31.25 sq. ft. @ 2.50/sq ft	<u>78.13</u>	893.13

GASOLINE (Welcome Inn)

July & August	1273.2 l @ .606\$/litre		771.56
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CAMP SUPPLIES

Riverdale Market (Invoice #02931)	363.75	
FBM Ltd (Invoices # 25 & 26)	413.91	
Ross River Service Centre		
(Invoice paid Oct. 5/84)	1,285.18	
FBM Ltd. (Invoice Paid Oct. 22/84)	<u>472.58</u>	2,535.42

CONTRACTS

Al Carlos (Invoice #027180)		<u>3,300.00</u>
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TOTAL EXPENDITURES		\$ 30,319.89
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APPENDIX IV

ROBERT W. STROSHEIN

EDUCATION:

B. Sc. (Geological Engineering) from
University of Saskatchewan
Graduated in 1973

EMPLOYMENT:

1973 - 1984 Hudson Bay Exploration & Development Co. Ltd.

Flin Flon Office 1973 - 1975

Drill Geologist - field supervisor of diamond
drill projects Northern Manitoba and Saskatchewan.

Whitehorse Office

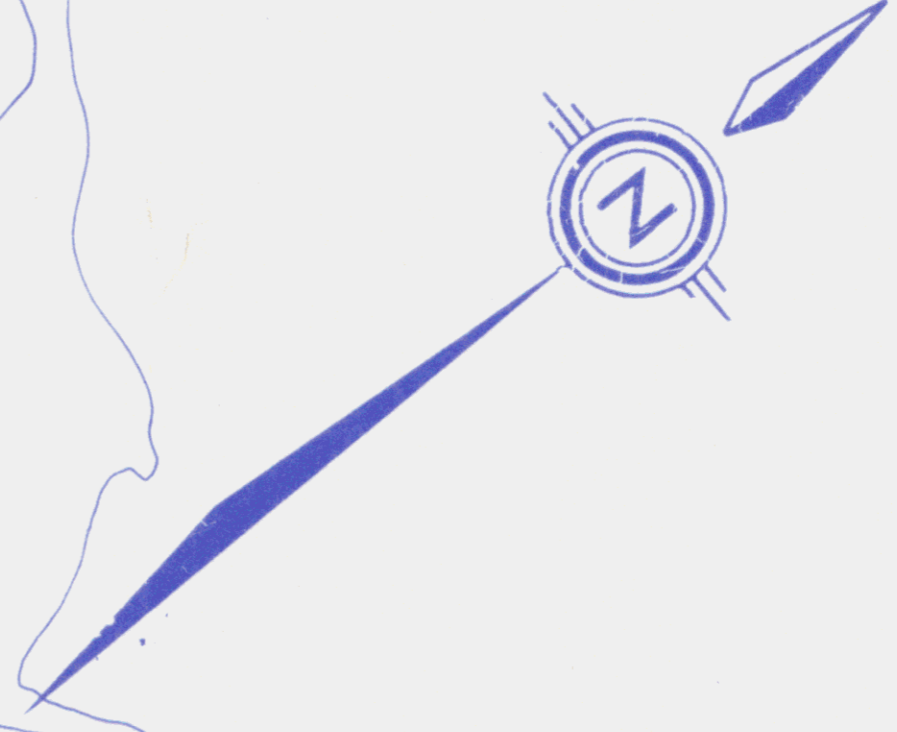
Project Geologist 1975-1980 - field supervisor of
geological mapping, geophysical, geochemical and
prospecting programs in the Yukon Territory.
Included report preparation and assessment.

Senior Exploration Geologist - 1981 - planning,
monitoring and assessing exploration projects
conducted in the Yukon Territory.



CANYON CLAIMS 1-320
 LOCATION PLAN
 Whitehorse Mining District
 Scale 1 in. = 1/2 mi.
 HUDSON BAY EXPLORATION & DEVELOPMENT
 Company Limited
 091587
 DEC. 4 J '88

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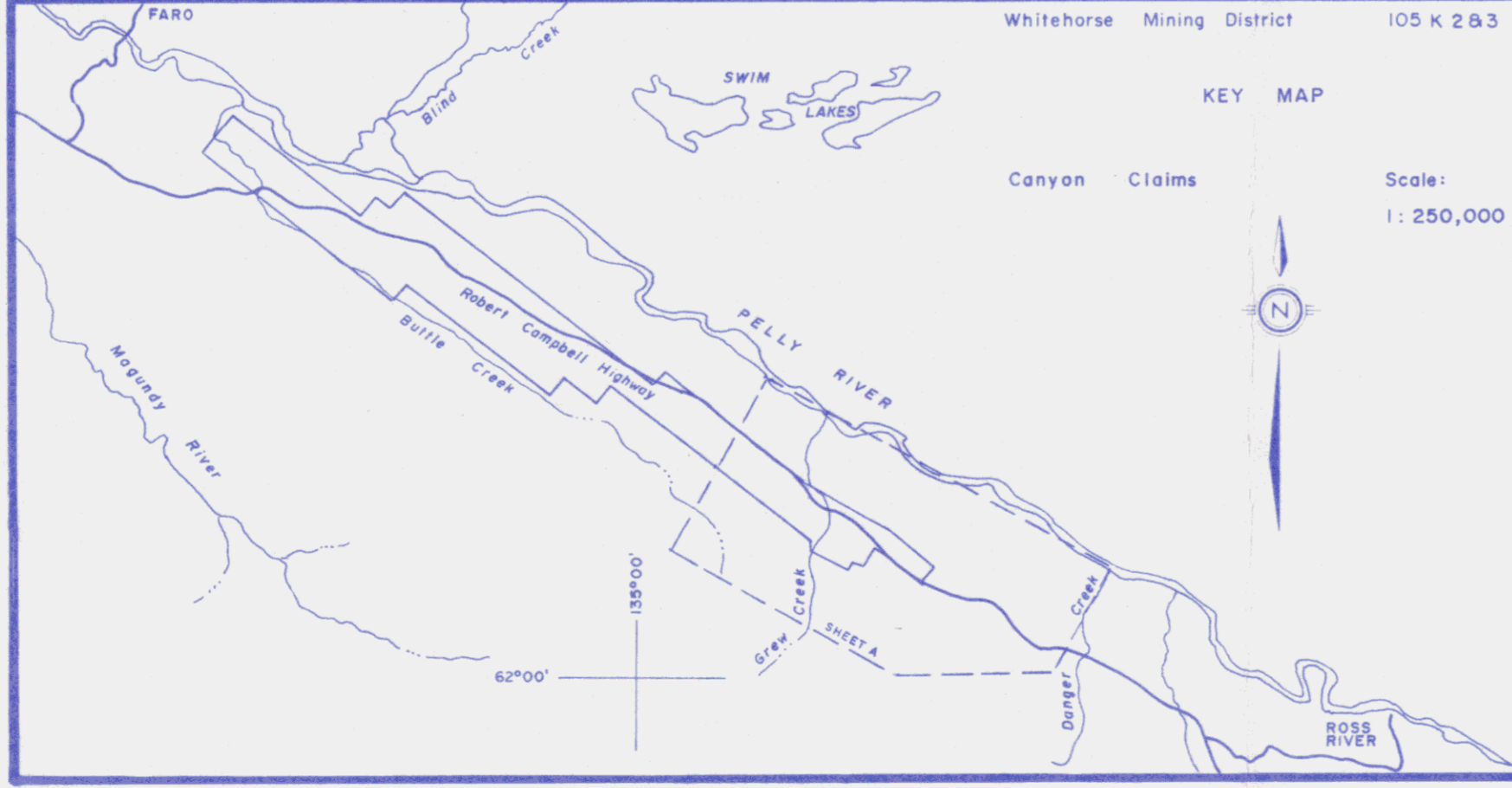
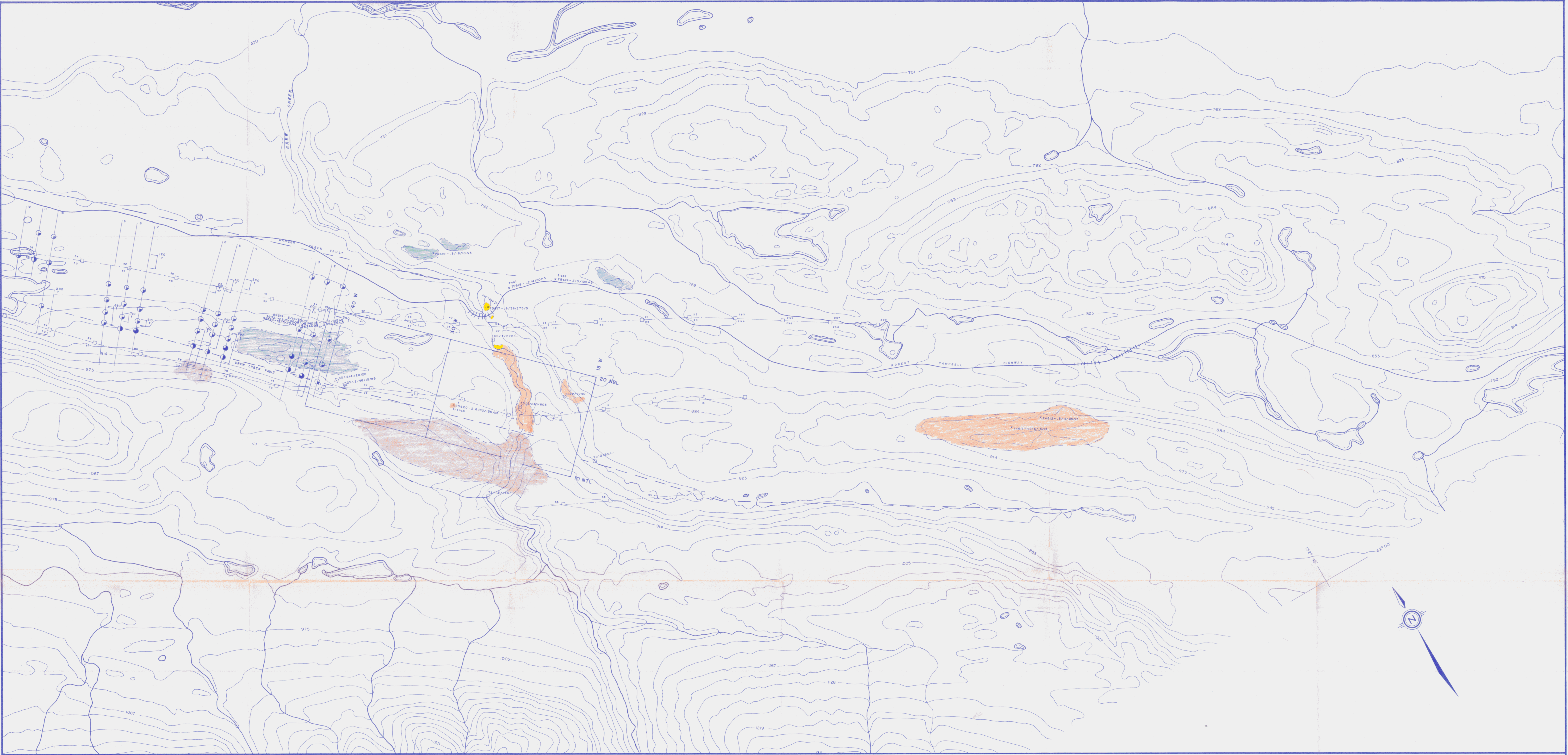


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105 K 2



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 REK 1-6
 REK 1-8
 HELL 1-8



LEGEND	GEOPHYSICS	GEOCHEMISTRY & GEOLOGY
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SHEET A

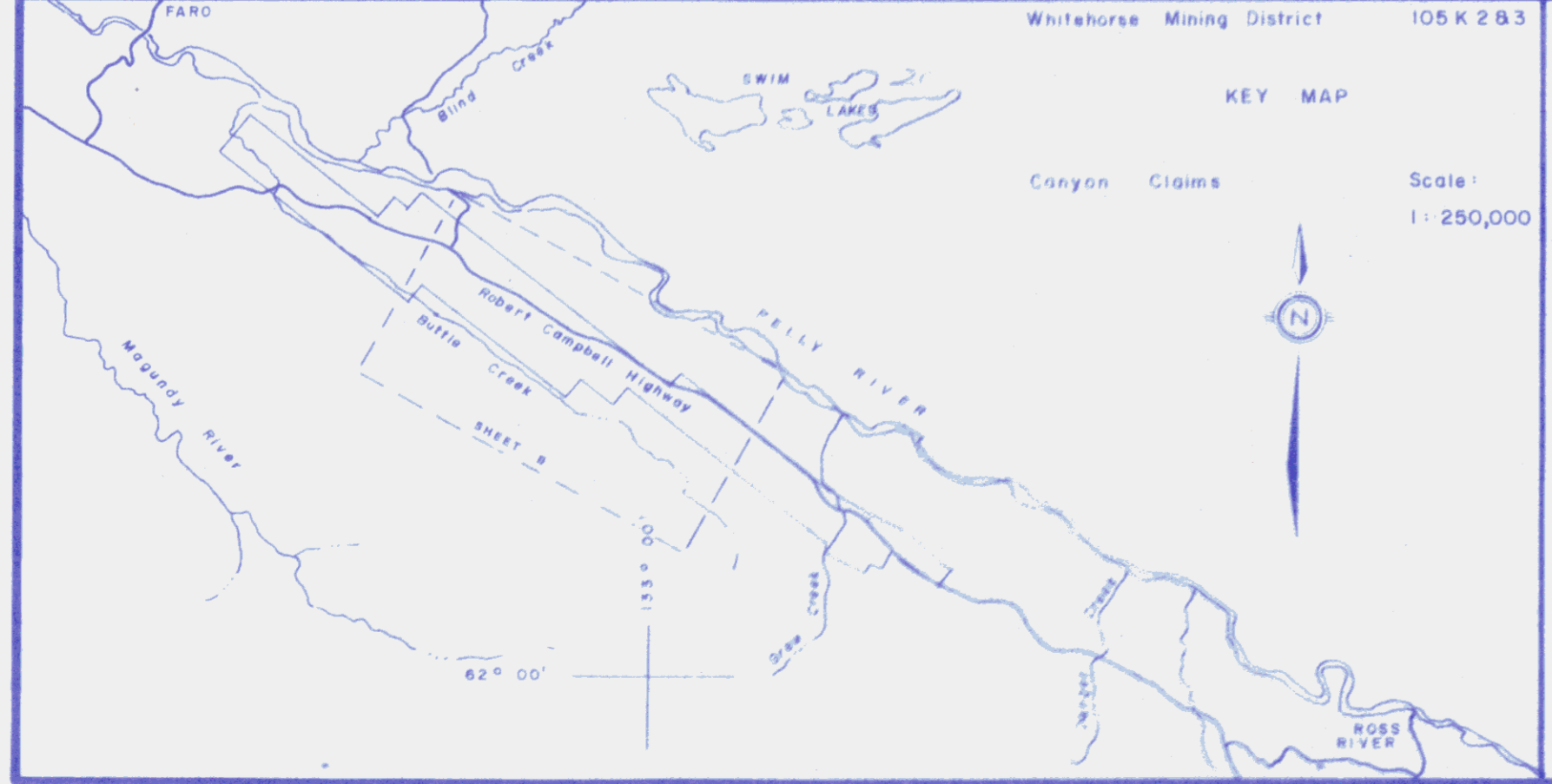
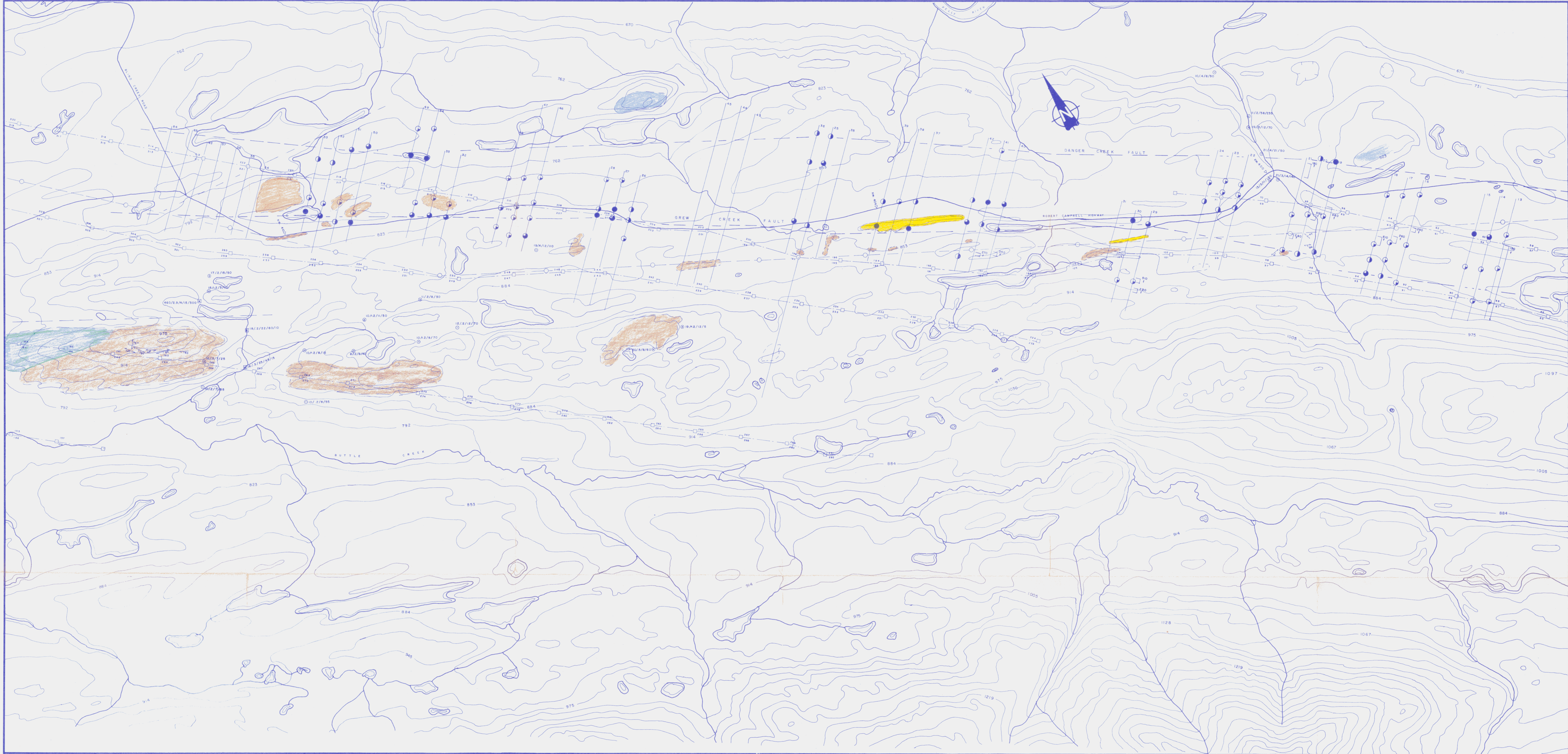
HUDSON BAY EXPLORATION & DEVELOPMENT COMPANY LIMITED

WHITEHORSE OFFICE

CANYON CLAIMS 091587

RECONNAISSANCE COMPILATION

DRAWN BY: R.J. & M.	DATE: DEC 4, 1984	PLATE No.: 3
FIELD WORK BY: C.A. & R.	REVISED BY:	SCALE: METERS 0 100 200 300 400 500 Kilometers 0 100 200



LEGEND

- Claim points & location line (approximate location) claim No. next to No. 1 post location
- Claim points & location line (located relative to grid) claim No. next to No. 1 post location
- Road kilometer post location along Robert Campbell highway
- Power line location
- Grid line with identification number
- Contour interval 30.5 meters
- Rock outcrop outline

GEOPHYSICS

- VLF-EM Dip angle Anomalies
- Weak < 5 %
- Moderate 5 - 14 %
- Strong 15 - 24 %
- Very Strong > 25 %
- Magnetic Anomalies Peak value in γ 's above background levels f - Fluxgate or p - Proton

GEOCHEMISTRY & GEOLOGY

- 10/2/78/70 Soil/silt sample Pb Ag As Hg ppm ppm ppm ppm
- 10/2/78/70 Pan concentrate sample Pb Ag As Hg Au ppm ppm ppm ppm ppm
- 22/2/70/06 Rock sample No. Ag As Hg Au ppm ppm ppm ppm
- Tertiary sedimentary rocks
- Tertiary igneous rocks
- Pre-Tertiary metamorphic rocks
- Permian massive limestone

SHEET 8

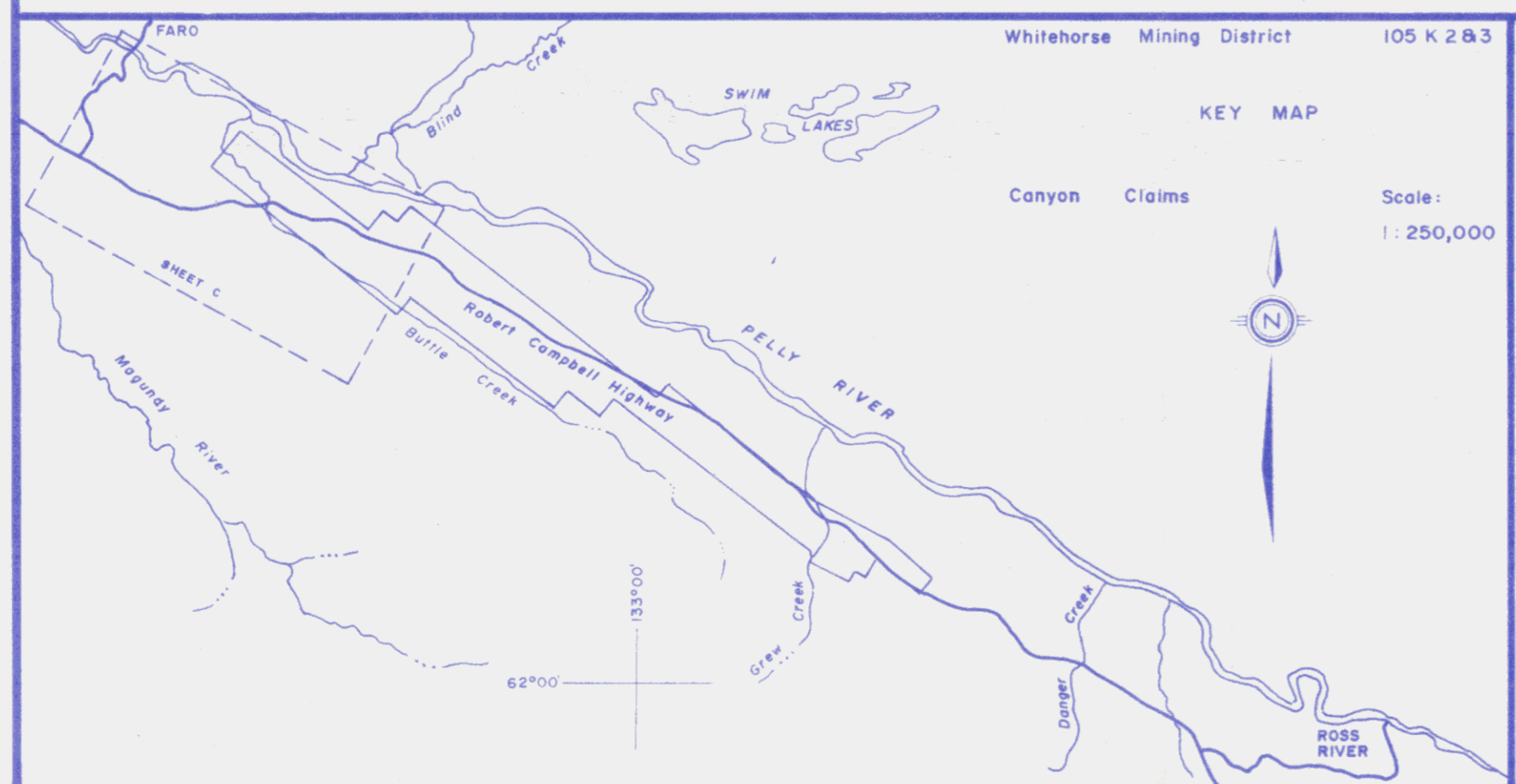
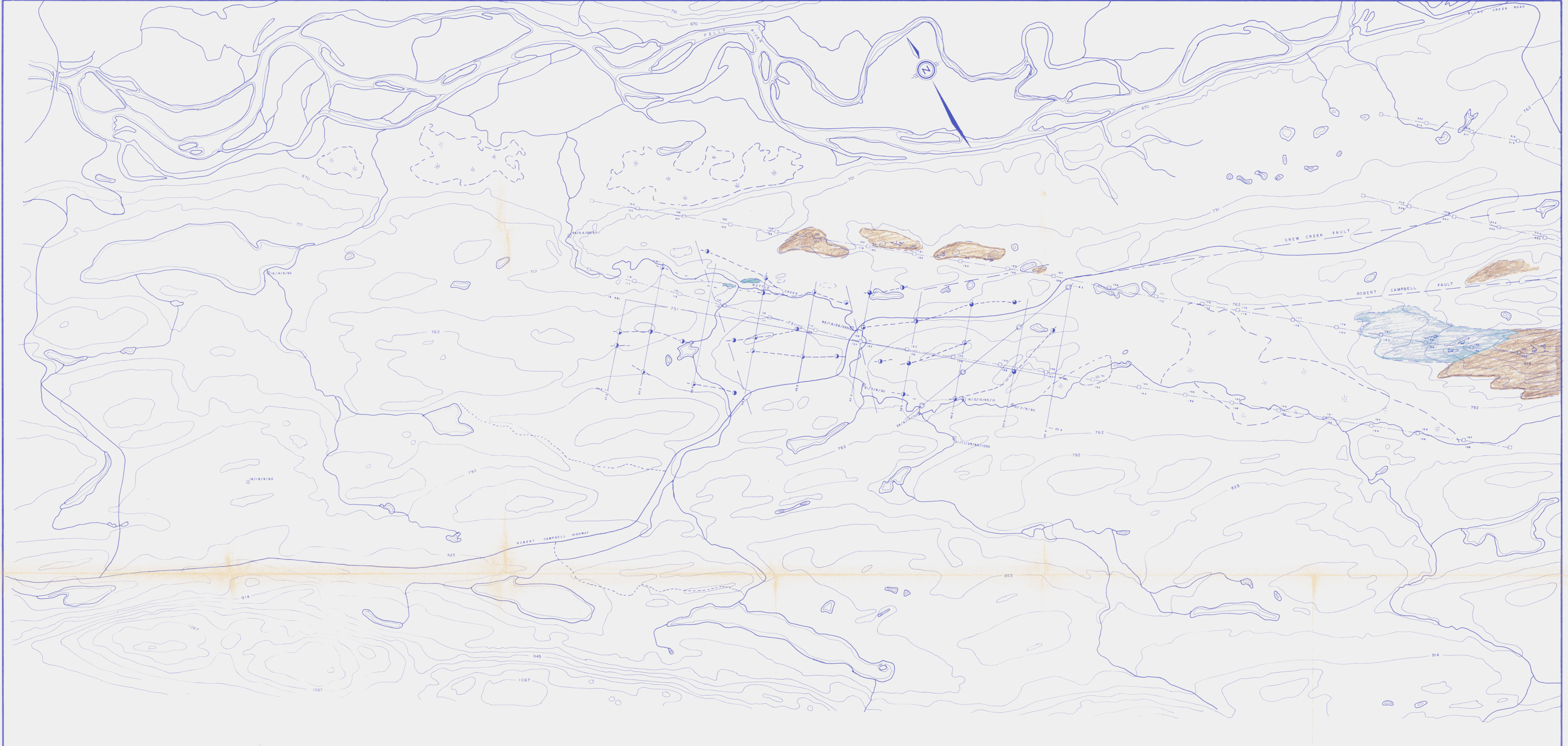
HUDSON BAY EXPLORATION & DEVELOPMENT COMPANY LIMITED

WHITEHORSE OFFICE

CANYON CLAIMS 091587

RECONNAISSANCE COMPILATION

DRAWN BY: <i>RS dm</i>	DATE: <i>DEC 4, 1984</i>	PLATE No.: 4
FIELD WORK BY: <i>CS</i>	REVISED BY:	SCALE: METERS



LEGEND

- Claim posts & location line (approximate location) claim No. next to No. 1 post location
- Claim posts & location line (located relative to grid) claim No. next to No. 1 post location
- Road kilometer post location along Robert Campbell highway
- Power line location
- Grid line with identification number
- Contour interval: 30.5 meters
- Rock outcrop outline

GEOPHYSICS

VLF-EM Dip angle Anomalies

- Weak < 5%
- Moderate 5-14%
- Strong 15-24%
- Very Strong 25%

Magnetic Anomalies
Peak value in 0.2° above background levels
f = Fluxgate or p = Proton

GEOCHEMISTRY & GEOLOGY

Soil/alluvial sample Pb, Ag, Au, Hg ppm
 Pan concentrate sample Pb, Ag, Au, Hg ppm
 Rock sample Pb, Ag, Au, Hg ppm

Tertiary sedimentary rocks
 Tertiary igneous rocks
 Pre-Tertiary metamorphic rocks
 Permian massive limestone

SHEET C

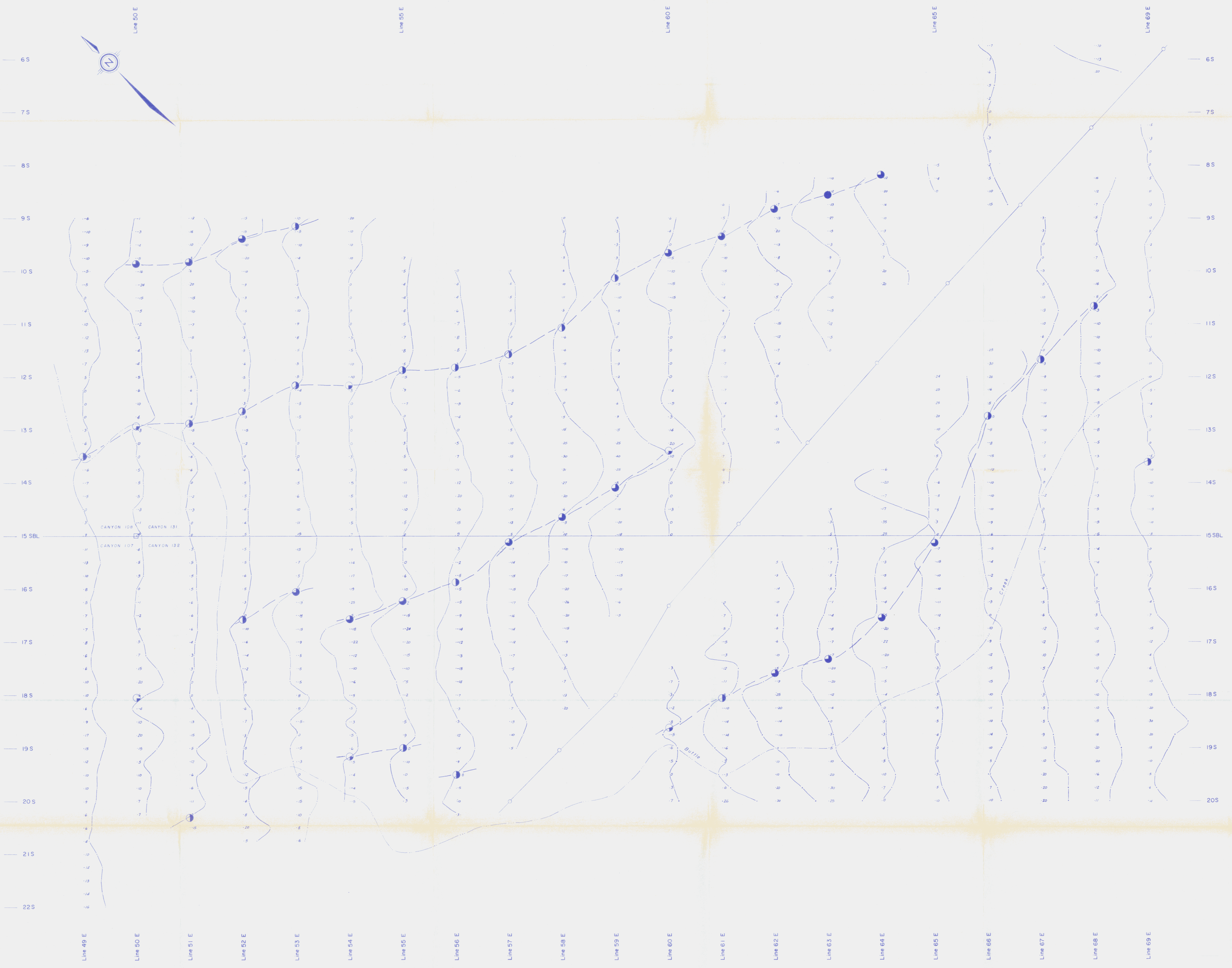
**HUDSON BAY EXPLORATION & DEVELOPMENT
COMPANY LIMITED**

WHITEHORSE OFFICE

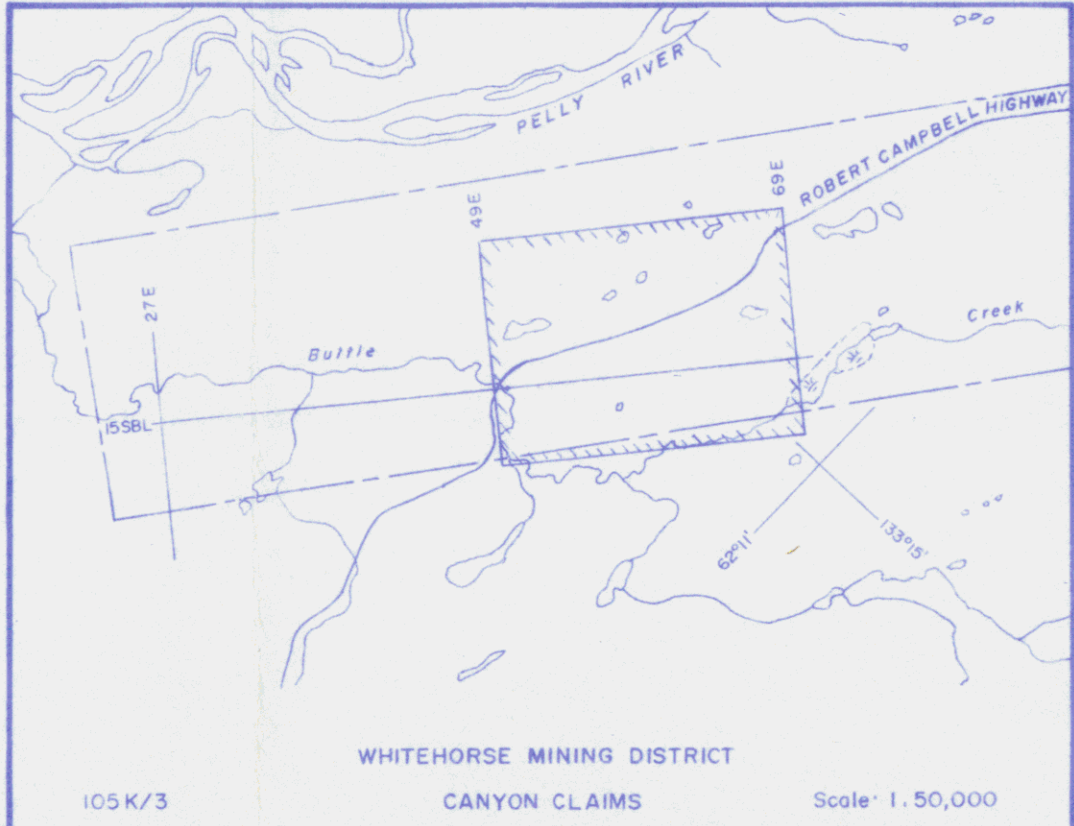
CANYON CLAIMS 091587

RECONNAISSANCE COMPILATION

DRAWN BY: <i>RS B.m</i>	DATE: DEC 4 1984	PLATE No.: 5
FIELD WORK BY: <i>Ac cm RS</i>	REVISED BY:	SCALE:

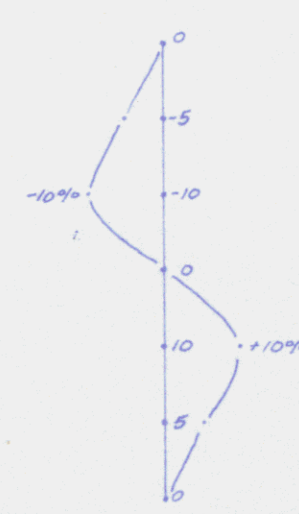


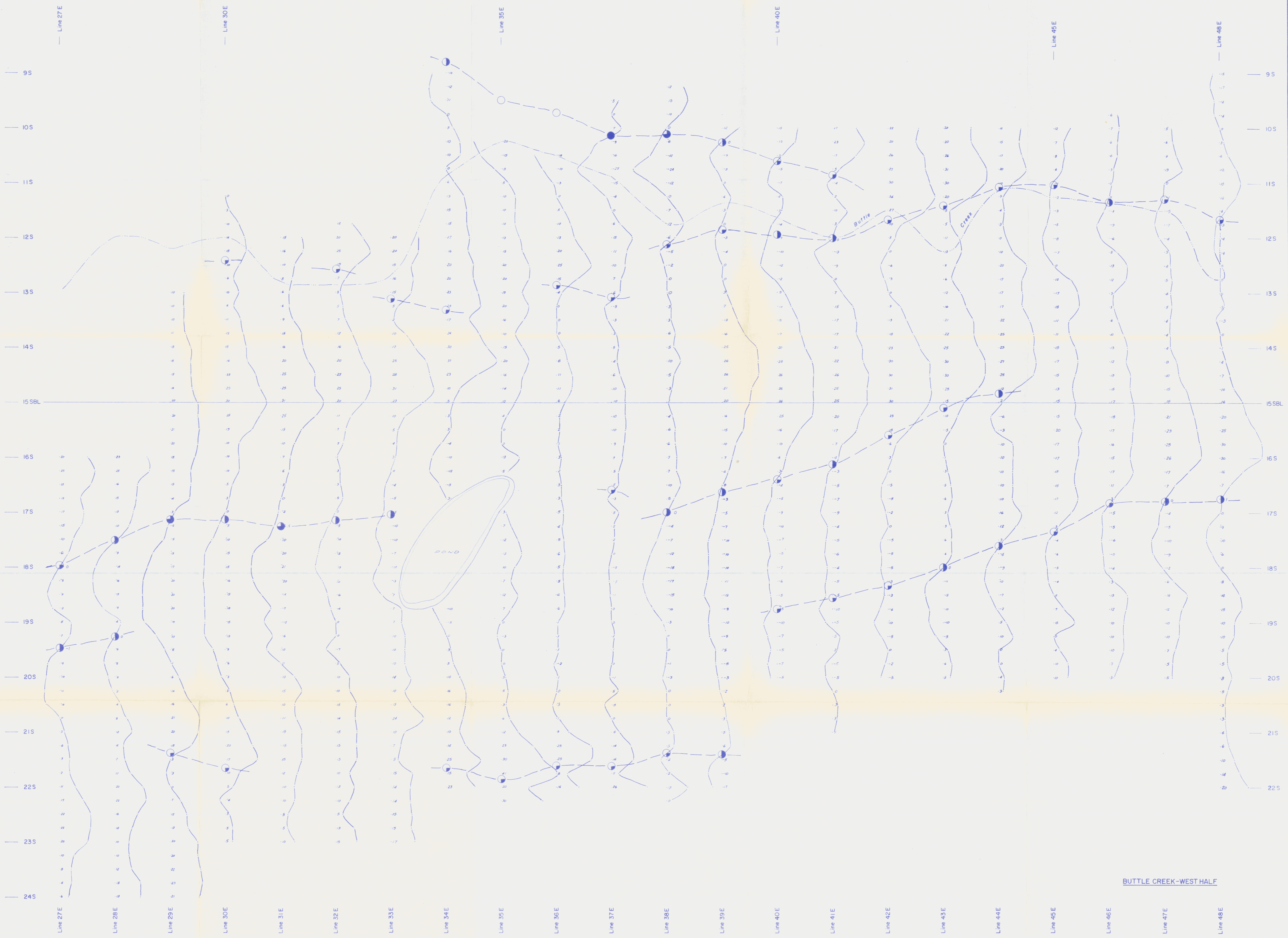
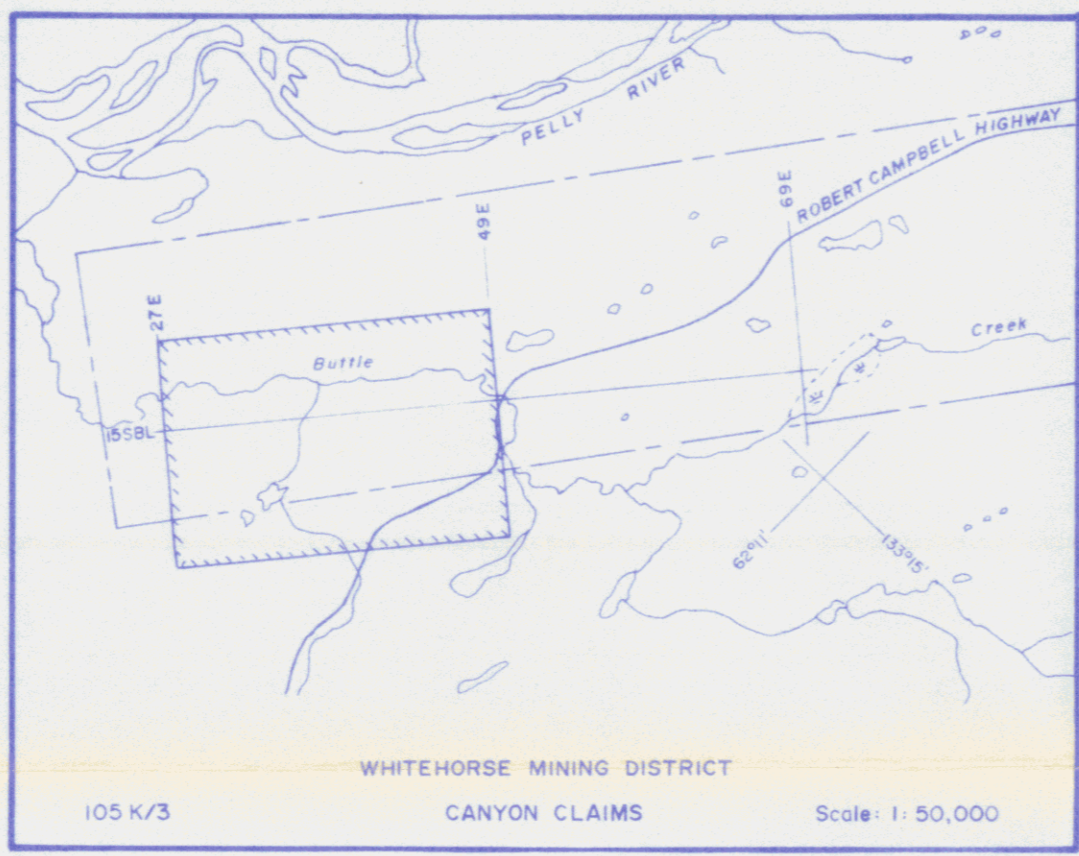
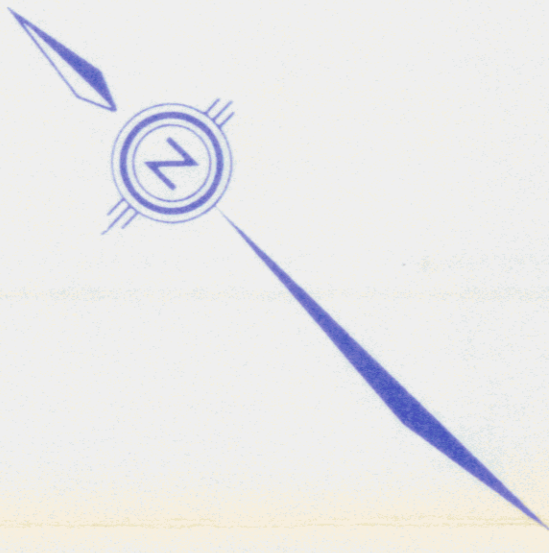
- VLF-EM CONDUCTORS
- WEAK
 - ◐ MODERATE
 - ◑ STRONG
 - VERY STRONG



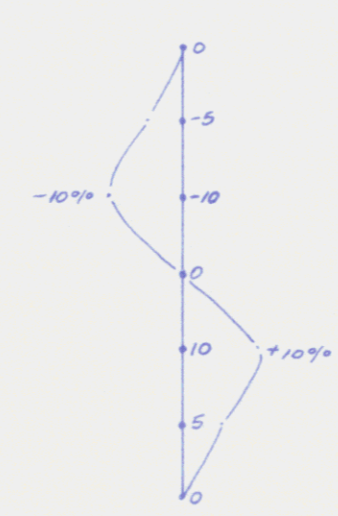
BUTTLE CREEK-EAST HALF

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WHITEHORSE	091587	
CANYON CLAIMS		
DIP ANGLE PROFILES		
DRAWN BY: B.H. B's	DATE: Dec. 4 1984	PLATE No.: 6
FIELD WORK BY: R.C.	REVISED BY:	SCALE: 0 25 50 75 100 METERS



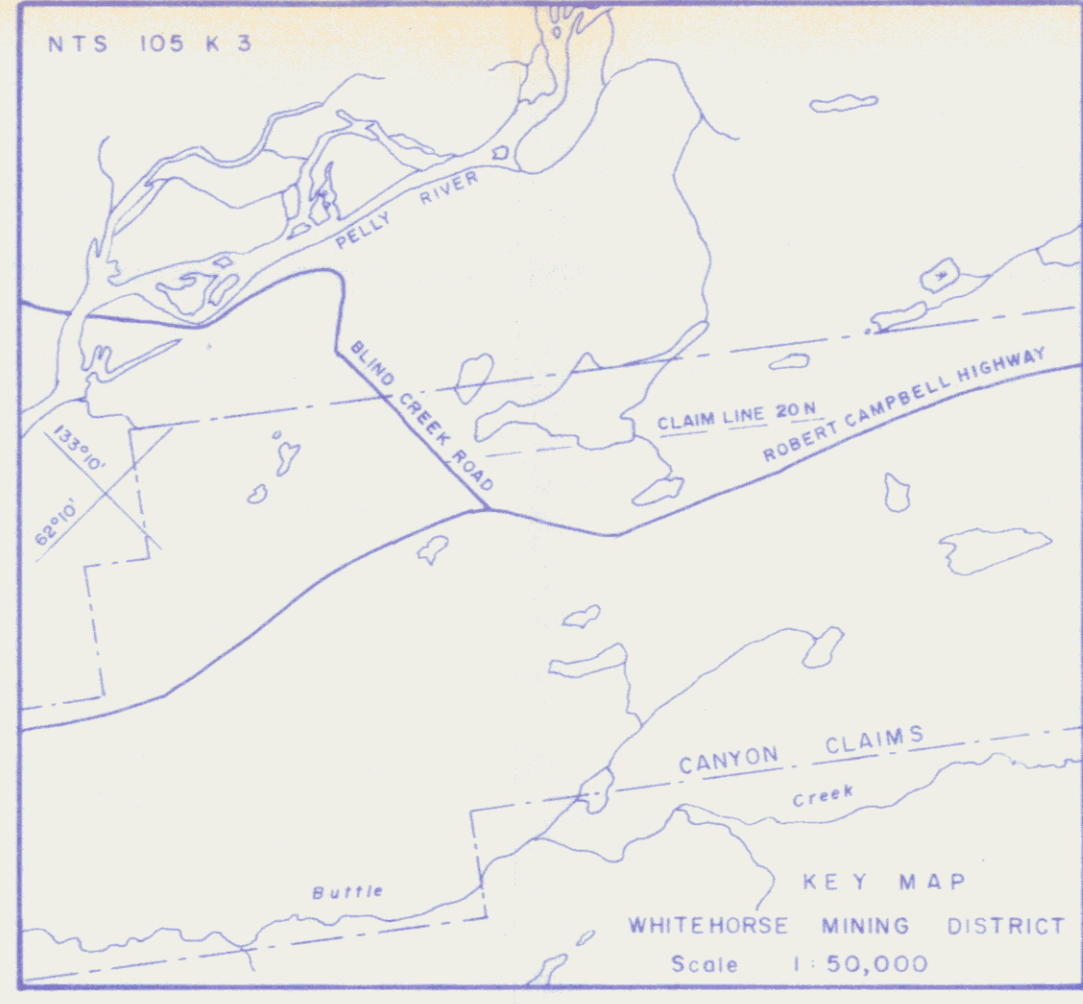


- VLF-EM CONDUCTORS
- WEAK
 - ◐ MODERATE
 - ◑ STRONG
 - VERY STRONG



BUTTLE CREEK - WEST HALF

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WHITEHORSE	OFFICE	
CANYON CLAIMS 001587		
DRAWN BY: B.A. R.S.	DATE: DEC 4 1984	PLATE No: 7
FIELD WORK BY: A.C.	REVISED BY:	SCALE: 0 25 50 75 100 METERS



RECONNAISSANCE EXPLORATION GRID
BLIND CREEK ROAD AREA

○ 2/6/25/A Soil sample location Ag As Hg Pb ppm
 X 74652-9/3/10/15 Rock sample location Sample No. Ag As Hg Au ppm
 / Shear plane / vertical dip
 - - - Jointing plane / dip angle



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WHITEHORSE		
CANYON CLAIMS GEOLOGY & GEOCHEMISTRY		091587
DRAWN BY: B.M. R.S.	DATE: DEC. 4, 1984	PLATE No. 8
FIELD WORK BY: C.M. R.S.	REVISED BY:	SCALE: 0 25 50 75 100 METERS