



52K04SW0501 52K01SE0027 JORDAN

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RECEIVED

AUG 5 1983

MINING LANDS SECTION

Submitted herewith is our report entitled:

ASSESSMENT REPORT
SIOUX LOOKOUT PROJECT
VERMILION LAKE AREA

Work carried out covered the following claims:

611820-611831 incl.	June 14, 1982)	
611872-611909 incl.	June 14, 1982)	
611910-611914 incl.	August 12, 1982)	Refer to Map EIA for location.
710124-710130 incl.	March, 1983)	
710138	March, 1983)	

Work undertaken included line cutting, surface geologic mapping, soil and rock geochemistry, and magnetic and VLF geophysical surveys. The results of this work are outlined in the following report.

LOCATION, ACCESS AND TOPOGRAPHY

The Kerr Addison Mines', Vermilion Lake group of claims lies some 15 km. southwest of Sioux Lookout by road. The area can be reached by Highway 664, 8 km. west of the junction with Highway 72, (south of Sioux Lookout) where a public water access ramp exists.

The claim group is heavily forested by a mature forest of spruce, balsam fir, jack pine, birch and poplar. White and red pine were also noted along the shorelines. The undergrowth is moderate to light and is comprised mainly of mountain maples. The topography is typified by rounded east-west ridges intervened by areas of spruce-cedar wetlands and marshes.

GEOLOGY

The geology of the claims area is covered by OGS Report 101. The area lies at the northern edge of the Wabigoon Subprovince and straddles the boundary between the northern Vermilion - Pelican Lakes greenstone belt and the southern Patara Metasedimentary belt. The claims group was staked to cover several easterly to northeasterly trending magnetic anomalies delineated by a previous airborne magnetometer survey. Mapping was conducted on a cut survey grid having a 400 foot line spacing. Rocks were sampled for assay at the discretion of the mapping geologist.

The major portion of the claims area was found to be comprised of fine to medium grained mafic flows and pillowed flows with pillow tops facing southwards. Pillow and flow top breccias occur only rarely. Interflow chemical sediments such as chert and chert-magnetite banded iron formation occur sporadically throughout the flows but were found to be of rather limited stratigraphic thickness (<2 meters). A gold anomaly found by previous Kerr Addison geologists was located in one such iron formation bed in claim 611872. It was located in a sheared magnetite-pyritic chert bed less than 1 meter thick and assayed >10,000 ppb Au. This iron formation corresponds to one of the plotted magnetic anomaly trends but was the only one of its type to be identified by Kerr Addison geologists.

The other magnetic anomaly trends throughout the claims group were found to be due to disseminated magnetite octahedra occurring in mafic flow hosts, and indeed the majority of these trends were accounted for in this manner. The magnetic trends seem to correlate well with the inferred and observed lithological stratigraphic trends and one could reasonably deduce these to be of a primary nature, possibly reflecting an iron rich effusive chemistry. It is interesting to note that the flows are pervasively carbonatized and in many areas transected by a pronounced east-northeast shear cleavage.

The contact with the Patara metasediments to the south follows an easterly trend and could nowhere be observed due to its coinciding

with broad expanses of wetlands. The contact zone is marked by veins and pods of pyritic carbonate yielding mildly anomalous gold values. The metasediments themselves are in a strict sense polymictic clast supported conglomerates since several cobbles of chert and magnetite were observed.

However, there is an overwhelming preponderance of mafic to felsic extrusive clasts, many of which are scoriaceous. These clasts are invariably well rounded and attenuated parallel to the regional foliae. They may well have been deposited in and subsequently reworked by water action and thus have been referred to as Volcaniclastic sediments by Kerr Addison geologists. Lithologically the rock package dips southwards and strikes eastwards. The imposed metamorphic fabric (schistosity and shear cleavage) also strikes subparallel to the stratigraphy but tends to dip steeply northwards. Steep faced fault scarps were noted in the southwest corner of the claims area. The geology as mapped is given on MAP E1B.

LINE CUTTING

A total of 60 miles of line were cut over the property. A line spacing of 400 feet was maintained. Lines were chained and pickets erected at 50 foot intervals.

GEOPHYSICS

Magnetometer Survey

During the summer of 1982 and winter of 1983 the claim block was covered by a magnetometer survey. The mag used was a Scintrex MP-2 run in conjunction with a Scintrex MBS-2 base station unit. Daily diurnal corrections were made and the data reduced to a local datum. The regional datum was 58,000 gammas. Readings were taken at 50 foot intervals along the lines. Twenty-five foot station readings were taken to fill in anomalous areas. The data is plotted on Map E1C with the contoured interpretation given on E1D. For the most part the mag data reflects the known geology with the Patara metasediments confined to the southern half of the property while the predominantly mafic volcanics are confined to the northern half of the property. The mag data does afford better definition of fault zones in the study area than previously known before. Local, apparently stratigraphic, mag highs within the mafic sequences were investigated during the summer of 1983 and found to represent for the most part magnetite rich mafic units while the remaining few were found to be iron formation.

V.L.F.

During the time of the running of the magnetometer survey a VLF survey was also run. A Geonics VLF monitoring Cutler Maine was used. Both in phase and quadrature were recorded. The results as

profiles are given on Map E1E. Numerous conductors were defined as a result of this survey of which many are weak and can be related to surficial sources and/or fault traces.

The remaining conductors; those of possible bedrock source, are lettered A through D on Map E1E. Conductors A and C located along the contact between the mafic metavolcanics metasediments may represent a similar causative source. These two conductors verify the airborne EM anomalies that prompted staking of this ground. Conductor B is located within the mafic metavolcanic sequence and appears to be stratigraphically controlled. The only iron formation mapped is located within close proximity to this conductor. Conductor D is located within a metasedimentary unit only locally exposed and of apparent limited extent on the property. Further assessment of these conductors shall be possible when all the rock and soil geochemistry is available. Further work, possibly drilling of these conductors, is recommended.

GEOCHEMISTRY

Soil

During the course of exploration on the claim block during the summer of 1982 a total of 658 soil samples were collected. The samples were collected by two crews, the first collecting 101 samples, the remaining 557 were collected by the second crew. Unfortunately, the second used an incorrect sampling method thereby preventing direct correlation with the first sampling. To provide needed B zone coverage, additional soil sampling was carried out during the summer of 1983. A total of 375 samples were collected. All but the 1983 results are plotted on Map E1G. The soils for the 1982 survey were analyzed for Au only - for the 1983 samples Cu and Zn in addition to Au were determined.

Soil recovery rate ran about 80-90%. Sites abandoned were due to swampy, shallow outcrop, or a poor soil profile development. A typical soil profile on the property is defined below.

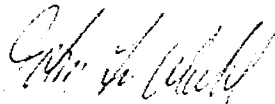
Ao, Aoo	3"	Undecomposed plant material and humus (black)
Az	5"	Buff, almost ashen grey, loose sand
B	5-6"	Rusty orange, loose sand, sharp upper contact - gradational lower contact
C		Yellowish buff, clayish sand

In view of the need to resample during the summer of 1983 interpretation of results is not possible pending receipt of this year's results.

Rock

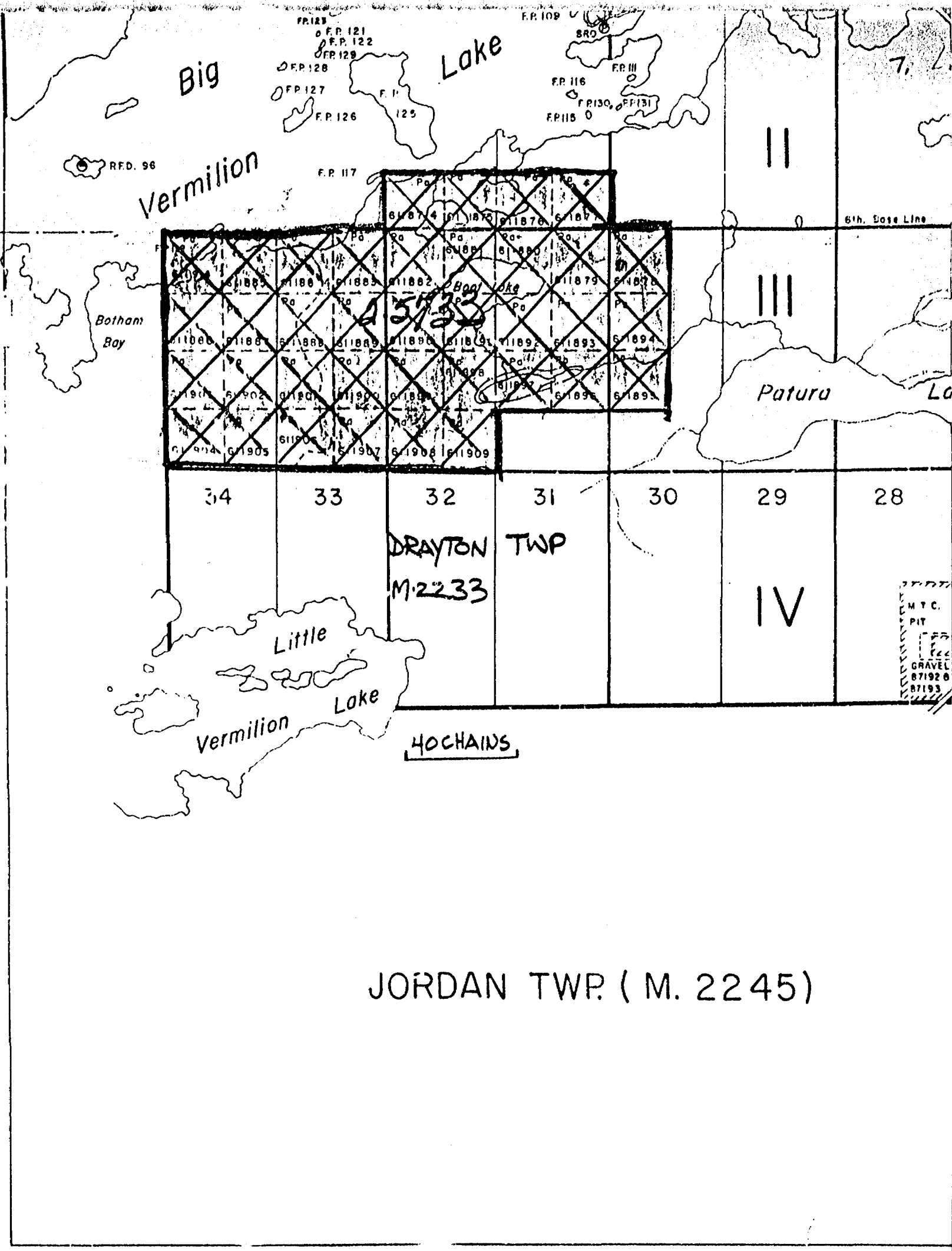
A total of 469 surface rock samples were collected during the course of geologic mapping. The samples, comprised of approximately 2 kg. of material, were crushed, ground and analyzed for Au, Cu and Zn. Gold was determined by FADCP methods while the Cu and Zn were determined by AA methods after acid digestion. Results are appended and are also plotted on the geology map, map number E1B. Several areas of anomalous rock gold values were reported from the 1982 survey. Detailed sampling over these areas of interest was undertaken during the summer of 1983. Results are pending.

All of which is respectfully submitted,


J. L. Wahl, Ph.D.
District Geologist

JLW/sm

Jordan Twp. (M. 2245)



JORDAN TWP. (M. 2245)

THE TOWNSHIP
OF

JORDAN

DISTRICT OF
KENORA

PATRICIA
MINING DIVISION

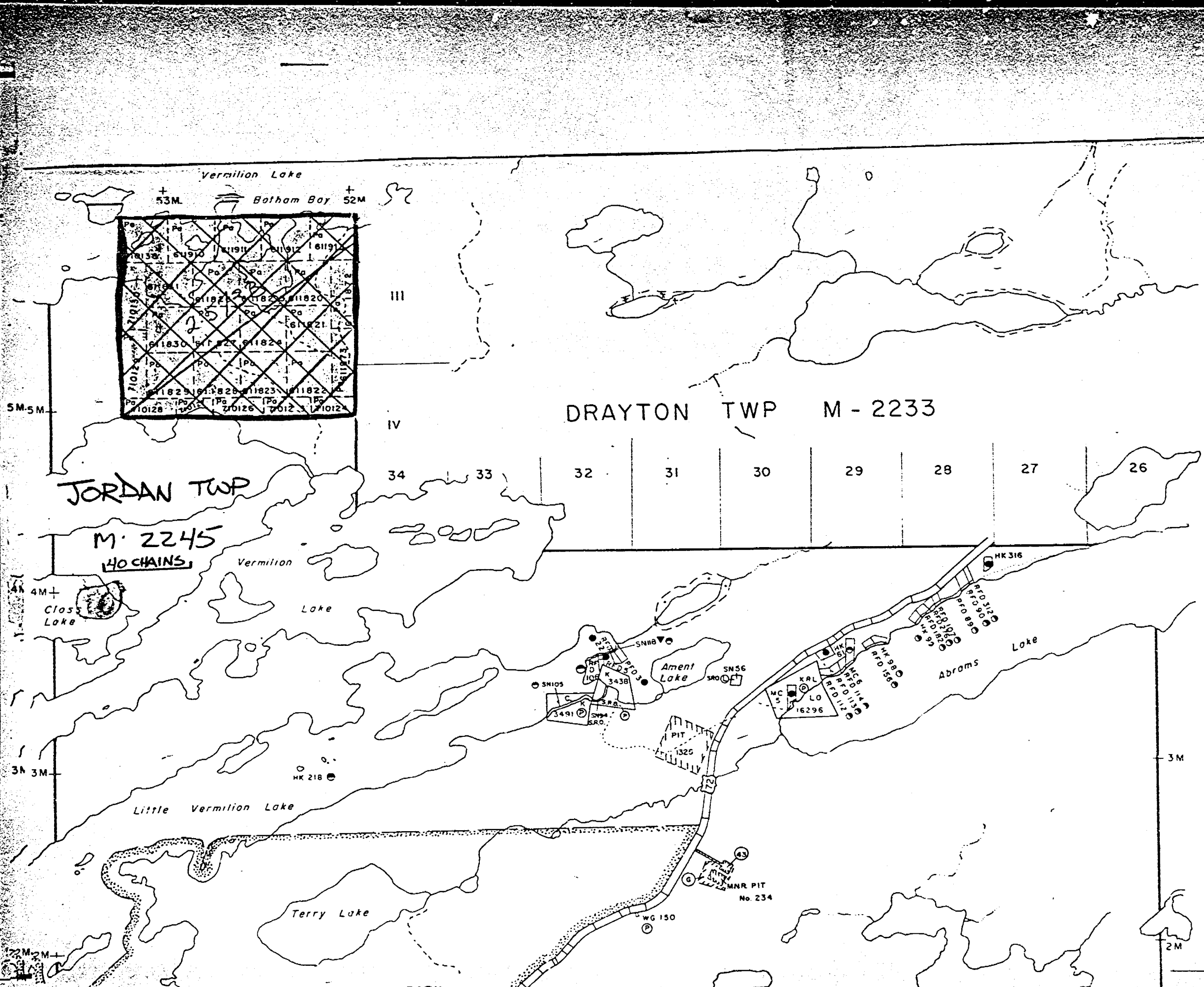
SCALE: 1-INCH 40 C

LEGEND

- PATENTED LAND
- CROWN LAND SALE
- LEASES
- LOCATED LAND
- LICENSE OF OCCUPATION
- MINING RIGHTS ONLY
- SURFACE RIGHTS ONLY
- ROADS
- IMPROVED ROADS
- KING'S HIGHWAYS
- RAILWAYS
- POWER LINES
- MARSH OR MUSKEG
- MINES
- CANCELLED
- PATENTED FOR S.R.O. (sum

NOTES

400' Surface Rights
along the shores of all
rivers



GEOPHYSICAL TECHNICAL DATA

GROUND SURVEYS - If more than one survey, specify data for each type of survey

Number of Stations _____ Number of Readings _____
Station interval Mag 50', VLF 50' Line spacing 400 feet
Profile scale 1 cm. = 20%
Contour interval Variable on map legend.

MAGNETIC

Instrument Scintrex MP-2 + MBS-2
Accuracy - Scale constant ±1 nT
Diurnal correction method Base Station
Base Station check-in interval (hours) every 60 sec.
Base Station location and value _____

ELECTROMAGNETIC

Instrument Crone VLF EM 16
Coil configuration _____
Coil separation _____
Accuracy _____
Method: Fixed transmitter Shoot back In line Parallel line
Frequency Cutler Maine (specify V.L.F. station)
Parameters measured IP & Quadrature as %

GRAVITY

Instrument _____
Scale constant _____
Corrections made _____
Base station value and location _____
Elevation accuracy _____

INDUCED POLARIZATION
RESISTIVITY

Instrument _____
Method Time Domain Frequency Domain
Parameters - On time _____ Frequency _____
- Off time _____ Range _____
- Delay time _____
- Integration time _____
Power _____
Electrode array _____
Electrode spacing _____
Type of electrode _____

PA 611882
611883
611884
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611890
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611893
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611895
611896
611897
611898
611899
611900
611901
611902
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611912
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611914
710124
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710129
710130
710138



GEOPHYSICAL - GEOLOGICAL - GEOCHEMICAL
TECHNICAL DATA STATEMENT

TO BE ATTACHED AS AN APPENDIX TO TECHNICAL REPORT
FACTS SHOWN HERE NEED NOT BE REPEATED IN REPORT
TECHNICAL REPORT MUST CONTAIN INTERPRETATION, CONCLUSIONS ETC.

Type of Survey(s) Soil Geochemical
Township or Area Jordan/Drayton Township
Claim Holder(s) Kerr Addison Mines Limited
Survey Company Kerr Addison Mines Limited
Author of Report Dr. J. L. Wahl
Address of Author P.O. Box 91, Commerce Court W., Toronto,
Ontario
Covering Dates of Survey _____
(linecutting to office)
Total Miles of Line Cut _____

MINING CLAIMS TRAVERSED
List numerically

PA (prefix)	611820 (number)
	611821
	611822
	611823
	611824
	611826
	611827
	611828
	611829
	611830
	611874
	611875
	611876
	611877
	611878
	611879
	611880
	611881
	611882
	611883
	611884
	611885

TOTAL CLAIMS _____

SPECIAL PROVISIONS
CREDITS REQUESTED

ENTER 40 days (includes
line cutting) for first
survey.

ENTER 20 days for each
additional survey using
same grid.

	DAYS per claim
Geophysical	
--Electromagnetic _____	
--Magnetometer _____	
--Radiometric _____	
--Other _____	
Geological _____	
Geochemical _____	20

AIRBORNE CREDITS (Special provision credits do not apply to airborne surveys)

Magnetometer _____ Electromagnetic _____ Radiometric _____
(enter days per claim)

DATE: 17th 11 1973 SIGNATURE: [Signature]
Author of Report or Agent

Res. Geol. _____ Qualifications _____

Previous Surveys

File No.	Type	Date	Claim Holder

If space insufficient, attach list

GEOCHEMICAL SURVEY - PROCEDURE RECORD

51

Numbers of claims from which samples taken _____

Total Number of Samples _____

Type of Sample Soil
(Nature of Material)

Average Sample Weight 1 lb.

Method of Collection Grub hoe and/or shovel

Soil Horizon Sampled B zone

Horizon Development Fair to Good

Sample Depth average 10"

Terrain Rugged to flat

Drainage Development Good to poor

Estimated Range of Overburden Thickness nil
to > 3 meters

SAMPLE PREPARATION

(Includes drying, screening, crushing, ashing)

Mesh size of fraction used for analysis _____

Soils - 80 mesh

Rocks - 200 mesh

General _____

ANALYTICAL METHODS

Values expressed in: per cent
p. p. m. Cu Zn
p. p. b. Au

(Cu), Pb, (Zn), Ni, Co, Ag, Mo, As, -(circle)

Others Au

Field Analysis (_____ tests)

Extraction Method _____

Analytical Method _____

Reagents Used _____

Field Laboratory Analysis

No. (_____ tests)

Extraction Method _____

Analytical Method _____

Reagents Used /

Commercial Laboratory (_____ tests)

Name of Laboratory X-Ray Laboratory

Extraction Method Au = FADCP

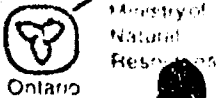
Analytical Method Cu-Zn = Acid Digestion

Reagents Used _____

General _____

611888
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611890
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611895
611896
611897
611898
611899
611900
611901
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611906
611907
611908
611909
611911
611912
611913

F.W.M.



Report of Work
(Geophysical, Geological
Geochemical and Expenditures)

83-71 Aug 7th

Instructions: - Please type or print
- if number of mining claims traversed
exceeds space on this form, attach a list
Note: - Only days credits calculated in the
"Expenditures" section may be entered in
the "Expend. Days Cr." columns.
- Do not use shaded areas below.

9

Mining Lands

The Mining Act

2.5733

Type of Survey(s) **VLF, Magnetic, Geologic Mapping, Soil Geochem.** Township or Area **2245 / 2233**
Jordan/Drayton Townships

Claim Holder(s) **Kerr Addison Mines Limited** Prospector's Licence No. **A35072**

Address **P.O. Box 91, Commerce Court West, Toronto, Ontario, M5L 1C7**

Survey Company **Same** Date of Survey (from to) **01 03 83 19 03 83** Total Miles of line Cut **60 miles**

Name and Address of Author (of Geo-Technical report)
Dr. J. L. Wahl, P.O. Box 91, Commerce Court West, Toronto, Ontario, M5L 1C7

Credits Requested per Each Claim in Columns at right

Special Provisions	Geophysical	Days per Claim
For first survey. Enter 40 days. (This includes line cutting)	Electromagnetic	40
	Magnetometer	20
For each additional survey using the same grid. Enter 20 days (for each)	Radiometric	
	Other	
	Geological	20
	Geochemical	20

Man Days	Geophysical	Days per Claim
Complete reverse side and enter total(s) here	Electromagnetic	
	Magnetometer	
	Radiometric	
	Other	
	Geological	
	Geochemical	

Mining Claims Traversed (List in numerical sequence)

Mining Claim		Expend. Days Cr.	Mining Claim		Expend. Days Cr.
Prefix	Number		Prefix	Number	
PA	611820	100	PA	611883	100
	611821	100		611884	100
	611822	100		611885	100
	611823	100		611886	100
	611824	100		611887	100
	611825	100		611888	100
	611826	100		611889	100
	611827	100		611890	100
	611828	100		611891	100
	611829	100		611892	100
	611830	100		611893	100
	611831	100		611894	100
	611872	100		611895	100
	611873	100		611896	100
	611874	100		611897	100
	611875	100		611898	100
	611876	100		611899	100
	611877	100		611900	100
	611878	100		611901	100
	611879	100		611902	100
	611880	100		611903	100
	611881	100		611904	100
	611882	100		611905	100

see revised statement

RECEIVED

JUL 26 1983

MINING LANDS SECTION

PATRICIA MINING DIV. RECEIVED

JUN 8 1983

Airborne Credits

Note: Special provisions credits do not apply

Expenditures (excludes power strip)

Type of Work **10 Airborne Survey**

Performing on Claims **7 8 9 10 11 12 1 2 3 4 5 6**

Calculation of Expenditure Days Credits

Total Expenditures \$ ÷ 15 = Total Days Credits

Instructions
Total Days Credits may be apportioned at the claim holder's choice. Enter number of days credits per claim selected in columns at right.

Date **June 6, 1983** Recorded/Holder or Agent (Signature) *J. L. Wahl*

Pa. 611820

Total number of mining claims covered by this report of work. **63**

For Office Use Only

Total Days Cr. Recorded **6300** Date Recorded **June 8, 1983** Mining Record *[Signature]*

Date Approved as Recorded **June 8, 1983** Branch Director *[Signature]*

I hereby certify that I have a personal and intimate knowledge of the facts set forth in the Report of Work annexed hereto, having performed the work or witnessed same during and/or after its completion and the annexed report is true.

Name and Postal Address of Person Certifying
Dr. J. L. Wahl, Kerr Addison Mines Limited, P.O. Box 91, Commerce Court West, Toronto, Ontario, M5L 1C7

Date Certified **June 6, 1983** Certified by (Signature) *[Signature]*

611906	100
611907	100
611908	100
611909	100
611910	100
611911	100
611912	100
611913	100
611914	100
710124	100
710125	100
710126	100
710127	100
710128	100
710129	100
710130	100
710138	100

PATRICIA MINING DIV.
RECEIVED
JUN - 8 1983
A.M. P.M.
7|8|9|10|11|12|1|2|3|4|5|6

RECEIVED
JUL 26 1983
MINING LANDS SECTION



Report of Work
(Geophysical, Geological,
Geochemical and Expenditures)

Instructions: - Please type or print.
- If number of mining claims traversed exceeds space on this form, attach a list.
Note: - Only days credits calculated in the "Expenditures" section may be entered in the "Expend. Days Cr." columns.
- Do not use shaded areas below.

The Mining Act

Type of Survey(s) Rock Geochemistry	Township or Area Jordan/Drayton Townships
Claim Holder(s) Kerr Addison Mines Limited	Prospector's Licence No. A35072
Address P.O. Box 91, Commerce Court West, Toronto, Ontario, M5L 1C7	
Survey Company Same	Date of Survey (from & to) Day Mo. Yr. Day Mo. Yr. 01 03 82 10 03 83
Name and Address of Author (of Geo-Technical report) Dr. J. L. Wahl, P.O. Box 91, Commerce Court West, Toronto, Ontario, M5L 1C7	

Credits Requested per Each Claim in Columns at right

Mining Claims Traversed (List in numerical sequence)

Special Provisions	Geophysical	Days per Claim
For first survey: Enter 40 days. (This includes line cutting)	- Electromagnetic	
	- Magnetometer	
	- Radiometric	
	- Other	
For each additional survey: using the same grid: Enter 20 days (for each)	Geological	
	Geochemical	
Man Days Complete reverse side and enter total(s) here	Geophysical	Days per Claim
	- Electromagnetic	
	- Magnetometer	
	- Radiometric	
	- Other	
	Geological	
Airborne Credits Note: Special provisions credits do not apply to Airborne Surveys.	Geophysical	Days per Claim
	Electromagnetic	
	Magnetometer	
	Radiometric	

Mining Claim			Mining Claim		
Prefix	Number	Expend. Days Cr.	Prefix	Number	Expend. Days Cr.
PA	611820	8	PA	611883	7
	611821	8		611884	7
	611822	8		611885	7
	611823	8		611886	7
	611824	8		611887	7
	611825	8		611888	7
	611826	8		611889	7
	611827	8		611890	7
	611828	8		611891	7
	611829	8		611892	7
	611830	8		611893	7
	611831	8		611894	7
	611872	8		611895	7
	611873	8		611896	7
	611874	8		611897	7
	611875	8		611898	7
	611876	7		611899	7
	611877	7		611900	7
	611878	7		611901	7
	611879	7		611902	7
	611880	7		611903	7
	611881	7		611904	7
	611882	7		611905	7

Expenditures (excludes power stripping)

Type of Work Performed Rock Geochemistry
Performed on Claim(s) as per above
\$12.30/sample rock x 557 samples
Calculation of Expenditure Days Credits
Total Expenditures \$ 6,851.10
÷ 15 = 457
Total Days Credits

Total number of mining claims covered by this report of work. **63**

Instructions
Total Days Credits may be apportioned at the claim holder's choice. Enter number of days credits per claim selected in columns at right.

For Office Use Only		
Total Days Cr. Recorded	Date Recorded	Mining Recorder
	Date Approved as Recorded	Branch Director

Date Aug 5/83	Recorded Holder or Agent (Signature) <i>[Signature]</i>
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Certification. Verifying Report of Work

I hereby certify that I have a personal and intimate knowledge of the facts set forth in the Report of Work annexed hereto, having performed the work or witnessed same during and/or after its completion and the annexed report is true.

Name and Postal Address of Person Certifying Dr. J. L. Wahl, Kerr Addison Mines Limited, P.O. Box 91, Commerce Court West,		
Toronto, Ontario, M5L 1C7		
Date Certified August 5, 1983	Certified by (Signature) <i>[Signature]</i>	

PA 611906	7
611907	7
611908	7
611909	7
611910	7
611911	7
611912	7
611913	7
611914	7
710124	7
710125	7
710126	7
710127	7
710128	7
710129	7
710130	7
710138	7



**Technical Assessment
Work Credits**

File **2.5733**

Date **1984 07 06**

Mining Recorder's Report of
Work No. **83-71**

Recorded Holder **KERR ADDISON MINES LTD**

Township or Area **JORDAN AND DKAYTON TOWNSHIPS**

Type of survey and number of Assessment days credit per claim	Mining Claims Assessed
Geophysical Electromagnetic _____ days Magnetometer _____ days Radiometric _____ days Induced polarization _____ days Other _____ days Section 77 (19) See "Mining Claims Assessed" column Geological _____ 18 days Geochemical _____ days Man days <input type="checkbox"/> Airborne <input type="checkbox"/> Special provision <input checked="" type="checkbox"/> Ground <input checked="" type="checkbox"/> <input type="checkbox"/> Credits have been reduced because of partial coverage of claims. <input type="checkbox"/> Credits have been reduced because of corrections to work dates and figures of applicant.	PA 611820 to 824 inclusive 611826 to 831 inclusive 611872 to 909 inclusive 611911 to 914 inclusive 710126 to 129 inclusive

Special credits under section 77 (16) for the following mining claims

No credits have been allowed for the following mining claims

not sufficiently covered by the survey Insufficient technical data filed

PA 611825
 611910
 710124-25
 710130
 710138

The Mining Recorder may reduce the above credits if necessary in order that the total number of approved assessment days recorded on each claim does not exceed the maximum allowed as follows: Geophysical — 80; Geological — 40; Geochemical — 40; Section 77(19)—60;

828 (83/6)



**Technical Assessment
Work Credits**

File **2,5733**

Date **1984 06 08**

Mining Recorder's Report of Work No. **83-71**

Recorded Holder **KERR ADDISON MINES LTD**

Township or Area **JORDON AND DRAYTON TOWNSHIPS**

Type of survey and number of Assessment days credit per claim	Mining Claims Assessed
Geophysical	
Electromagnetic _____ days 40	PA 611820 to 831 inclusive
Magnetometer _____ days 20	611872 to 914 inclusive
Radiometric _____ days	710124 to 130 inclusive
Induced polarization _____ days	710138
Other _____ days	
Section 77 (19) See "Mining Claims Assessed" column	
Geological _____ days	
Geochemical _____ days	
Man days <input type="checkbox"/> Airborne <input type="checkbox"/>	
Special provision <input checked="" type="checkbox"/> Ground <input checked="" type="checkbox"/>	
<input type="checkbox"/> Credits have been reduced because of partial coverage of claims.	
<input type="checkbox"/> Credits have been reduced because of corrections to work dates and figures of applicant.	

Special credits under section 77 (16) for the following mining claims

No credits have been allowed for the following mining claims

not sufficiently covered by the survey Insufficient technical data filed

The Mining Recorder may reduce the above credits if necessary in order that the total number of approved assessment days recorded on each claim does not exceed the maximum allowed as follows: Geophysical — 80; Geological — 40; Geochemical — 40; Section 77(19) — 60;



Ministry of
Natural
Resources

**Technical Assessment
Work Credits**

15
File 2.5733

Date 1984 06 08 Mining Recorder's Report of Work No. 83-71

Recorded Holder
KERR EDDISON MINES LTD

Township or Area
JORDON AND DRAYTON TOWNSHIPS

Type of survey and number of Assessment days credit per claim	Mining Claims Assessed
Geophysical Electromagnetic _____ days Magnetometer _____ days Radiometric _____ days Induced polarization _____ days Other _____ days Section 77 (19) See "Mining Claims Assessed" column Geological _____ 18 _____ days Geochemical _____ days Man days <input type="checkbox"/> Airborne <input type="checkbox"/> Special provision <input checked="" type="checkbox"/> Ground <input checked="" type="checkbox"/> <input checked="" type="checkbox"/> Credits have been reduced because of partial coverage of claims. <input type="checkbox"/> Credits have been reduced because of corrections to work dates and figures of applicant.	PA 611820 to 824 inclusive 611826 to 831 inclusive 611872 to 909 inclusive 611911 to 914 inclusive 710226 to 229 inclusive 710124 to 129

Special credits under section 77 (16) for the following mining claims

No credits have been allowed for the following mining claims

not sufficiently covered by the survey Insufficient technical data filed

PA 611825
611910
710124-25
710130
710138

The Mining Recorder may reduce the above credits if necessary in order that the total number of approved assessment days recorded on each claim does not exceed the maximum allowed as follows: Geophysical — 80; Geological — 40; Geochemical — 40; Section 77 (19) — 60;



Ministry of
Natural
Resources

**Technical Assessment
Work Credits**

File **2.5733**
Mining Recorder's Report of
Work No. **83-71**

Date **1984 06 08**

Recorded Holder **KERR ADDISON MIN E S LTD**

Township or Area **JORDON AND DRAYTON TOWNSIPS**

Type of survey and number of Assessment days credit per claim	Mining Claims Assessed
Geophysical Electromagnetic _____ days Magnetometer _____ days Radiometric _____ days Induced polarization _____ days Other _____ days Section 77 (19) See "Mining Claims Assessed" column Geological _____ days Geochemical _____ 13 days Man days <input type="checkbox"/> Airborne <input type="checkbox"/> Special provision <input checked="" type="checkbox"/> Ground <input checked="" type="checkbox"/> <input checked="" type="checkbox"/> Credits have been reduced because of partial coverage of claims. <input type="checkbox"/> Credits have been reduced because of corrections to work dates and figures of applicant.	PA 611820-21 611824 to 831 inclusive 611872 to 909 inclusive 611911 to 914 inclusive

Special credits under section 77 (16) for the following mining claims

No credits have been allowed for the following mining claims

not sufficiently covered by the survey Insufficient technical data filed

PA 611822-23
 611910
 710124 to 130 inclusive
 710138

The Mining Recorder may reduce the above credits if necessary in order that the total number of approved assessment days recorded on each claim does not exceed the maximum allowed as follows: Geophysical — 80; Geological — 40; Geochemical — 40; Section 77(19)—60;



Ministry of
Natural
Resources

Geotechnical
Report
Approval

File # 2.5733

17

Mining Lands Comments

[Empty lined area for Mining Lands Comments]

To: Geophysics

Comments

[Empty lined area for Geophysics comments]

Approved Wish to see again with corrections Date Signature

To: Geology - Expenditures *C. Keestra*

Comments

[Empty lined area for Geology - Expenditures comments]

Approved Wish to see again with corrections Date *April 24/84* Signature *C. Keestra*

To: Geochemistry *J. Fortin*

Comments

*No claim lines or numbers on map.
all claims not completely covered.*

L.D. Fortin

Approved Wish to see again with corrections Date *May 27th 1984* Signature *J.H. Fortin*

To: Mining Lands Section, Room 6462, Whitney Block. (Tel: 5-1380)



Geotechnical Report Approval

File 2.5733

Aug 18/83

Mining Lands Comments

- geology map not coloured
- overburden not shown.

To: Geophysics R. Barlow

Comments

Approved Wish to see again with corrections Date Oct. 7/83 Signature Douglas H. Pitcher

To: Geology - Expenditures C. Kustra

Comments
Let's see when they submit the final map. Overburden should have been shown on map or at least discussed in the geological description

Approved Wish to see again with corrections Date Oct 3/83 Signature Kustra

To: Geochemistry J. Horseshoe

Comments
No lab results listed on map; only sample numbers
Incomplete geochemistry

Approved Wish to see again with corrections Date April 10 1984 Signature J. Horseshoe

To: Mining Lands Section, Room 6462, Whitney Block. (Tel: 5-1380)

L.D

611820	✓	✓	✓	✓	✓	1/4	611891	✓	✓	✓	✓
21	✓	✓	✓	✓	✓	1/1	92	✓	✓	✓	✓
22	✓	✓	✓	✓	✓	∅	93	✓	✓	✓	✓
23	✓	✓	✓	✓	✓	∅	94	✓	✓	✓	✓
24	✓	✓	✓	✓	✓	1/1	95	✓	✓	✓	✓
25	✓	✓	✓	✓	✓	3/2	96	✓	✓	✓	✓
26	✓	✓	✓	✓	✓	1/2	97	✓	✓	✓	✓
27	✓	✓	✓	✓	✓	1/1	98	✓	✓	✓	✓
28	✓	✓	✓	✓	✓	3/1	99	✓	✓	✓	✓
29	✓	✓	✓	✓	✓	3/2	900	✓	✓	✓	✓
30	✓	✓	✓	✓	✓	1/2	1	✓	✓	✓	✓
31	✓	✓	✓	✓	✓	3/1	2	✓	✓	✓	✓
611872	✓	✓	✓	✓	✓	1/1	3	✓	✓	✓	✓
73	✓	✓	✓	✓	✓	1/3	4	✓	✓	✓	✓
74	✓	✓	✓	✓	✓	1/4	5	✓	✓	✓	✓
75	✓	✓	✓	✓	✓	1/2	6	✓	✓	✓	✓
76	✓	✓	✓	✓	✓	1/2	7	✓	✓	✓	✓
77	✓	✓	✓	✓	✓	1/2	8	✓	✓	✓	✓
78	✓	✓	✓	✓	✓	3/1	9	✓	✓	✓	✓
79	✓	✓	✓	✓	✓	∅	10	✓	✓	✓	✓
80	✓	✓	✓	✓	✓	1/2	11	✓	✓	✓	✓
81	✓	✓	✓	✓	✓	1/4	12	✓	✓	✓	✓
82	✓	✓	✓	✓	✓	1/1	13	✓	✓	✓	✓
83	✓	✓	✓	✓	✓	1/1	14	✓	✓	✓	✓
84	✓	✓	✓	✓	✓	1/1	710124	✓	✓	✓	✓
85	✓	✓	✓	✓	✓	1/2	25	✓	✓	✓	✓
86	✓	✓	✓	✓	✓	✓	26	✓	✓	✓	✓
87	✓	✓	✓	✓	✓	1/2	27	✓	✓	✓	✓
88	✓	✓	✓	✓	✓	3/1	28	✓	✓	✓	✓
89	✓	✓	✓	✓	✓	1/2	29	✓	✓	✓	✓
90	✓	✓	✓	✓	✓	1/1	30	✓	✓	✓	✓
	✓	✓	✓	✓	✓	✓	58	✓	✓	✓	✓

EM m GL GC 2.573.7
EM m GL GC 2.573.7



KERR ADDISON MINES LIMITED

P.O. BOX 91 - COMMERCE COURT WEST

TORONTO, ONTARIO M5L 1C7

TELEPHONE 867-7270

20

RECEIVED

August 4, 1983

AUG 5 1983

MINING LANDS SECTION

Mr. F. Matthews
Mining Administrator
Ministry of Natural Resources
Room 6452, Whitney Block
Queen's Park
Toronto, Ontario
M7A 1W3

Dear Mr. Matthews:

Accompanying this letter are two copies of our assessment report and assessment forms covering Kerr Addison's claim block located in Drayton/Jordan Townships of Northwestern Ontario.

As I mentioned over the phone, we are awaiting both rock and soil geochemical results. As a result the geology map E1B, upon which the rock geochemical data is plotted, is to be considered as a PRELIMINARY copy. When results are received and plotted a final copy shall be forwarded to you. As for the soil geochemical data, we are also awaiting results but map E1G is attached upon which are plotted sample locations and numbers. Map E1H to be sent to you shall have the soil gold values plotted.

As requested when we send these completed maps to you, reference shall be made to your file number.

Respectfully yours,

KERR ADDISON MINES LIMITED

J. L. Wahl, Ph.D.
District Geologist

JLW/sm
Enclosures

25733

83-71

1983 08 10

2.5733

Mr. Albert Hanson
Mining Recorder
Ministry of Natural Resources
P.O. Box 669
Sioux Lookout, Ontario
POV 2T0

Dear Sir:

We have received reports and maps for a Geophysical
(Electromagnetic and Magnetometer) Geological and
Geochemical survey submitted under Special Provisions
(credit for Performance and Coverage) on Mining Claims
PA 611820 et al in the Townships of Jordan and Drayton.

This material will be examined and assessed and a statement
of assessment work credits will be issued.

Yours very truly,

E.F. Anderson
Director
Land Management Branch

Whitney Block, Room 6450
Queen's Park
Toronto, Ontario
M7A 1W3
Phone: (416)965-1380

A. Barr:mc

cc: Kerr Addison Mines Ltd
P.O. Box 91
Commerce Court West
Toronto, Ontario
M5L 1C7
Attention: Dr. J.L. Wahl



KERR ADDISON MINES LIMITED

P.O. BOX 91 - COMMERCE COURT WEST

TORONTO, ONTARIO M5L 1C7

TELEPHONE 867-7270

21

October 3, 1983

Mr. F. Matthews
Mining Administrator
Ministry of Natural Resources
Assessment Section
Room 6452, Whitney Block
Queen's Park
Toronto, Ontario
M7A 1W3

Dear Mr. Matthews:

Re: File #2.5733

Attached are two copies each of the completed geology and soil geochemical maps covering our claim block located outside of Sioux Lookout, Ontario.

At the time the assessment report was submitted I was awaiting both rock and soil geochemical results. These are now in and are plotted on the attached maps.

If there are any problems, do not hesitate to call.

Sincerely yours,

KERR ADDISON MINES LIMITED

J. L. Wahl, Ph.D.
District Geologist

JLW/sm
Enclosures

RECEIVED
OCT 5 1983

MINING DEPARTMENT



Ministry of
Natural
Resources

23

June 25/84

Your file: 83-71

1984 06 08

Our file: 2.5733

Mr. Albert Hanson
Mining Recorder
Ministry of Natural Resources
P.O. Box 669
Sioux Lookout, Ontario
POV 2T0

Dear Sir:

Enclosed are two copies of a Notice of Intent with statements listing a reduced rate of assessment work credits to be allowed for a technical survey. Please forward one copy to the recorded holder of the claims and retain the other. In approximately fifteen days from the above date, a final letter of approval of these credits will be sent to you. On receipt of the approval letter, you may then change the work entries on the claim record sheets.

For further information, if required, please contact Mr. F.W. Matthews at 416/965-6918.

Yours very truly,

S.E. Yundt
Director
Land Management Branch

Whitney Block, Room 6643
Queen's Park
Toronto, Ontario
M7A 1W3
Phone: 416/965-1316

F.W. S. Hurst:mc
Encls.

cc: Kerr Addison Mines Limited
P.O. Box 91
Commerce Court West
Toronto, Ontario
M5L 1C7

cc: Mr. G.H. Ferguson
Mining & Lands Commissioner
Toronto, Ontario



Ministry of
Natural
Resources

Notice of Intent
for Technical Reports

1984 06 08

2.5733/83-71

An examination of your survey report indicates that the requirements of The Ontario Mining Act have not been fully met to warrant maximum assessment work credits. This notice is merely a warning that you will not be allowed the number of assessment work days credits that you expected and also that in approximately 15 days from the above date, the mining recorder will be authorized to change the entries on his record sheets to agree with the enclosed statement. Please note that until such time as the recorder actually changes the entry on the record sheet, the status of the claim remains unchanged.

If you are of the opinion that these changes by the mining recorder will jeopardize your claims, you may during the next fifteen days apply to the Mining and Lands Commissioner for an extension of time. Abstracts should be sent with your application.

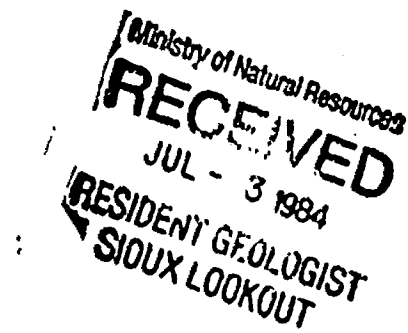
If the reduced rate of credits does not jeopardize the status of the claims then you need not seek relief from the Mining and Lands Commissioner and this Notice of Intent may be disregarded.

If your survey was submitted and assessed under the "Special Provision-Performance and Coverage" method and you are of the opinion that a re-appraisal under the "Man-days" method would result in the approval of a greater number of days credit per claim, you may, within the said fifteen day period, submit assessment work breakdowns listing the employees names, addresses and the dates and hours they worked. The new work breakdowns should be submitted direct to the Land Management Branch, Toronto. The report will be re-assessed and a new statement of credits based on actual days worked will be issued.

1984 06 29

Your File: 83-71
Cur File: 2.5733

Mr. Albert Hanson
Mining Recorder
Ministry of Natural Resources
P.O. Box 669
Sioux Lookout, Ontario
POV 2T0



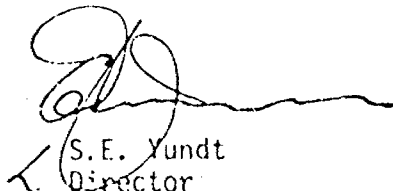
Dear Sir:

RE: Notice of Intent dated June 8, 1984
Geophysical (Electromagnetic and Magnetometer)
Geological and Geochemical Survey on Mining
Claims PA 611820 et al in the Townships of
Jordan and Drayton

The assessment work credits, as listed with the above-mentioned Notice of Intent, have been approved as of the above date.

Please inform the recorded holder of these mining claims and so indicate on your records.

Yours sincerely,



S.E. Yundt
Director
Land Management Branch

Whitney Block, Room 6643
Queen's Park
Toronto, Ontario
M7A 1W3
Phone: (416) 965-4888

h S. Hurst:mc

cc: Kerr Addison Mines Ltd
P.O. Box 91
Commerce Court West
Toronto, Ontario M5L 1C7
Attention: Dr. J.L. Wahl

cc: Mr. G.H. Ferguson
Mining & Lands Commissioner
Toronto, Ontario

cc: ✓ Resident Geologist
Sioux Lookout, Ontario

1984 07 09

Your File: 83-71
Our File: 2.5733

26

Mr. Albert Hanson
Mining Recorder
Ministry of Natural Resources
P.O. Box 669
Sioux Lookout, Ontario
POV 2T0

Dear Sir:

RE: Notice of Intent dated June 8, 1984
Geophysical (Electromagnetic and Magnetometer)
Geological and Geochemical Survey on Mining
Claims PA 611820 et al in the Townships of
Jordan and Drayton

The Technical Assessment Work Credit statement which
was included with our letter of June 29, 1984 (copy
enclosed) was incorrect. Enclosed is a corrected
statement.

Please inform the recorded holder of these mining
claims of these changes and so indicate on your
records.

Yours sincerely,

S.E. Yundt
Director
Land Management Branch

Whitney Block, Room 6643
Queen's Park
Toronto, Ontario
M7A 1W3
Phone: (416)965-4888

S. Hurst:mc

cc: Kerr Addison Mines Ltd
P.O. Box 91
Commerce Court West
Toronto, Ontario M5L 1C7
Attention: Dr. J.L. Wahl

cc: Mr. G.H. Ferguson
Mining & Lands Commissioner
Toronto, Ontario

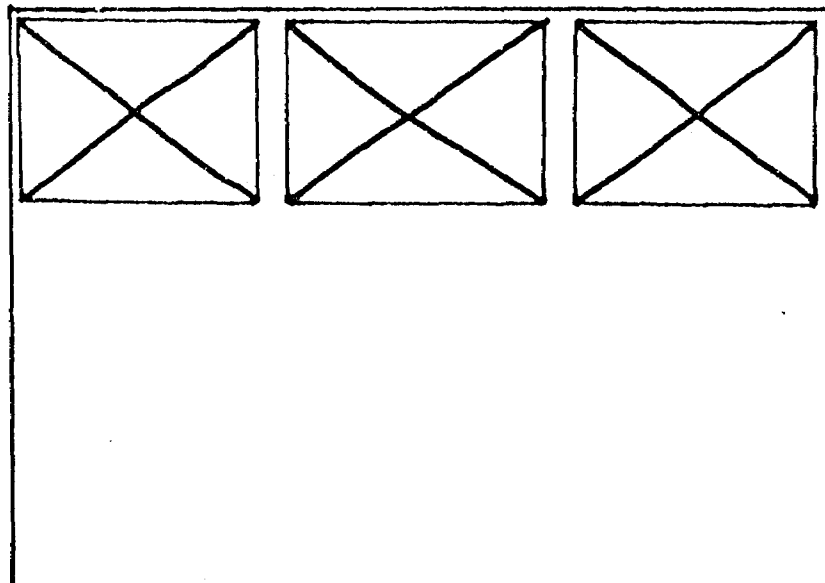
cc: Resident Geologist
Sioux Lookout, Ontario

SEE ACCOMPANYING ²⁷
MAP(S) IDENTIFIED AS

52K/OISE-0027 # 1,2

LOCATED IN THE MAP
CHANNEL IN THE
FOLLOWING SEQUENCE

(X)



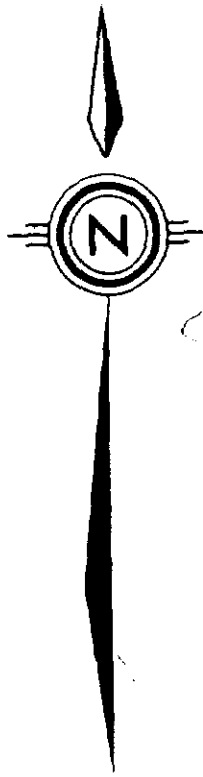
2

FOR ADDITIONAL

INFORMATION

SEE MAPS:

52K/OISE-0027 # 3-8



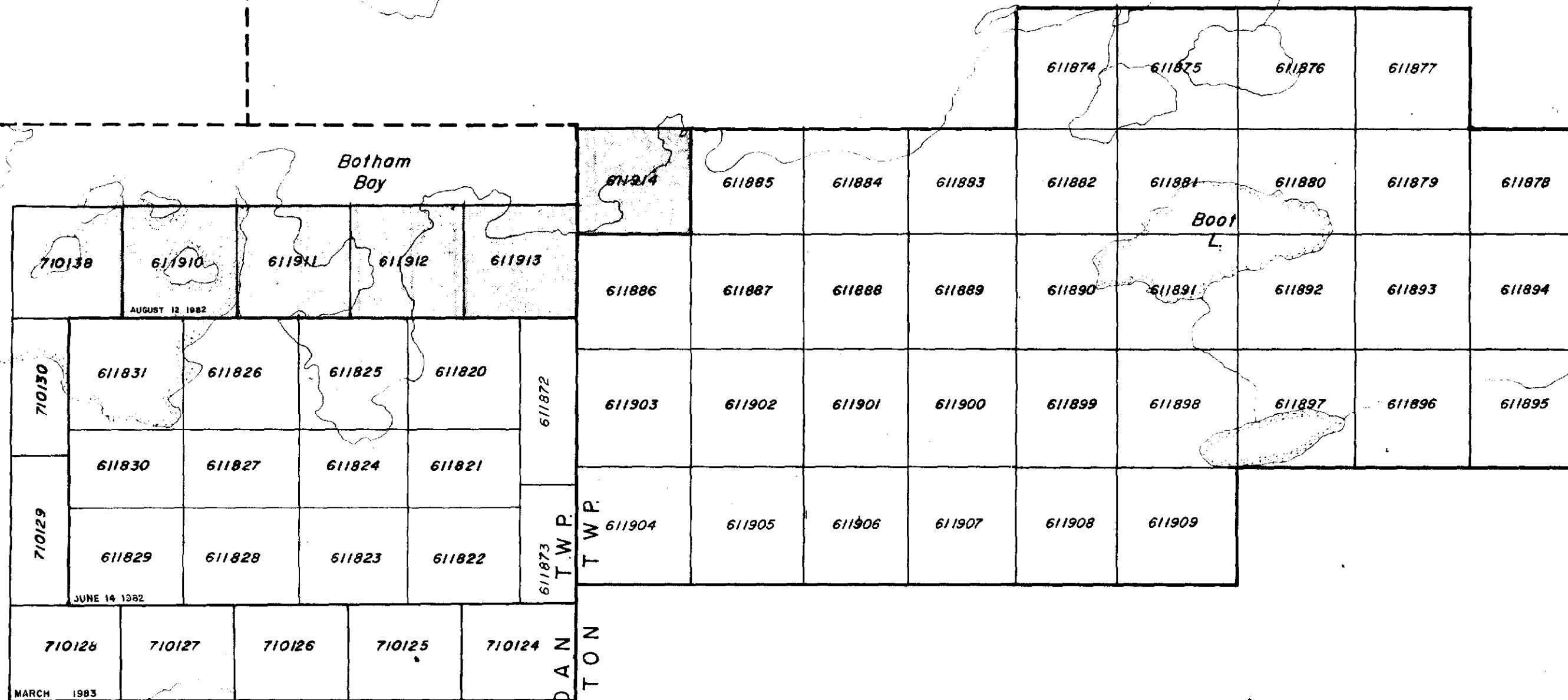
One L.

VERMILION TWP.
DRAYTON TWP.

North Pines Mine

Sam L.

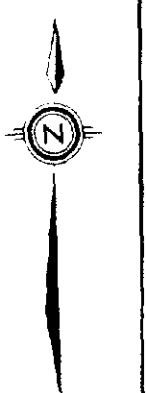
BIG VERMILION LAKE



Patara L.

DRAYTON TWP.
JORDAN TWP.

52K/OISE-0027
#1





VERMILLION LAKE

VERMILLION LAKE

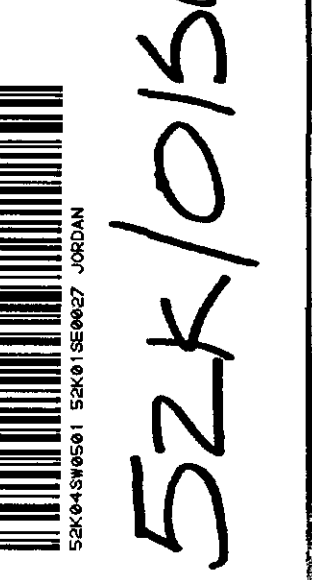
SIoux LOOKOUT PROJECT
GEOLOGY - ROCK GEOCHEMISTRY

52K/01SE-0027 #2

Scale 1:10,000
Drawing No. 0-20
Drawn by J. W. W.
Checked by J. W. W.

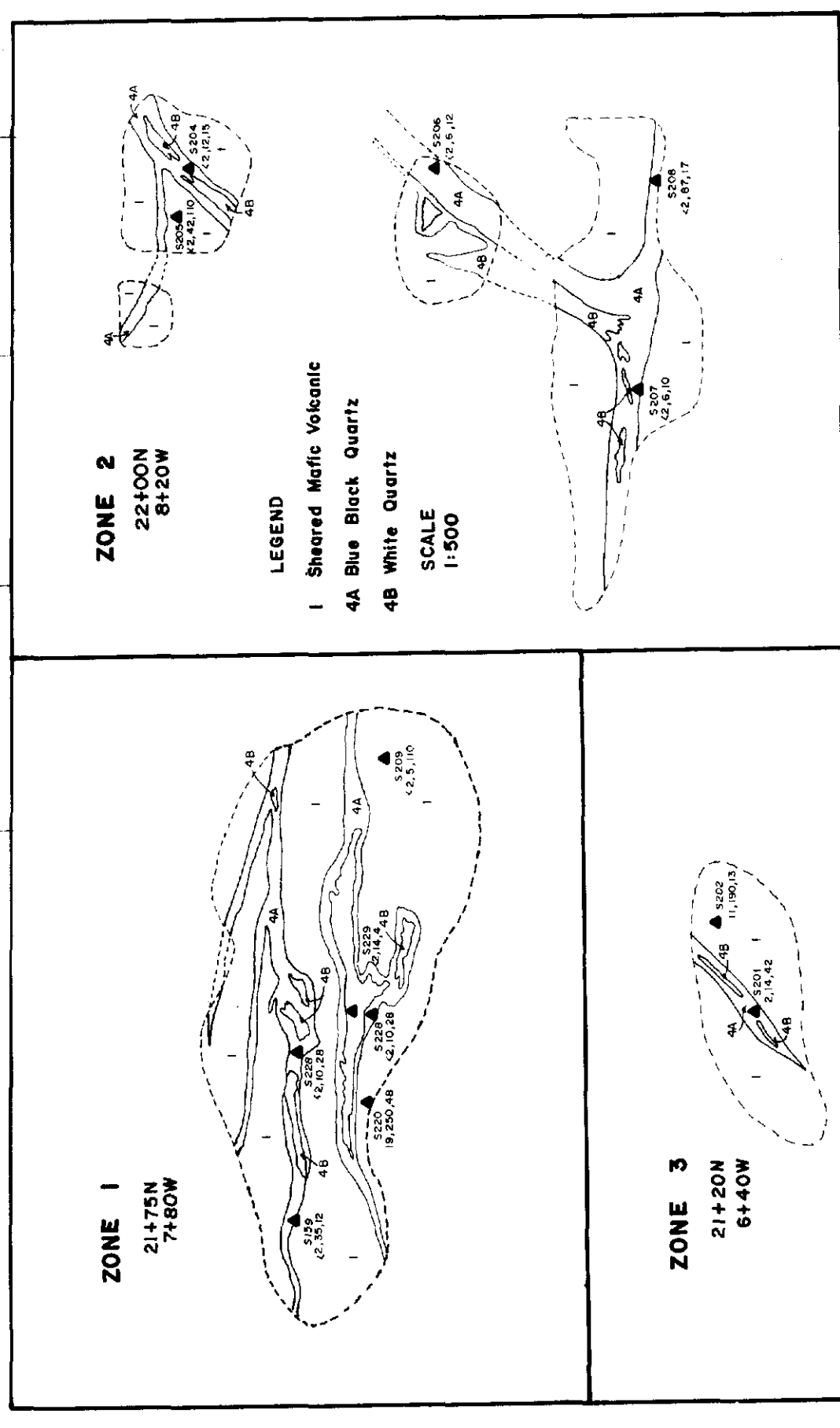
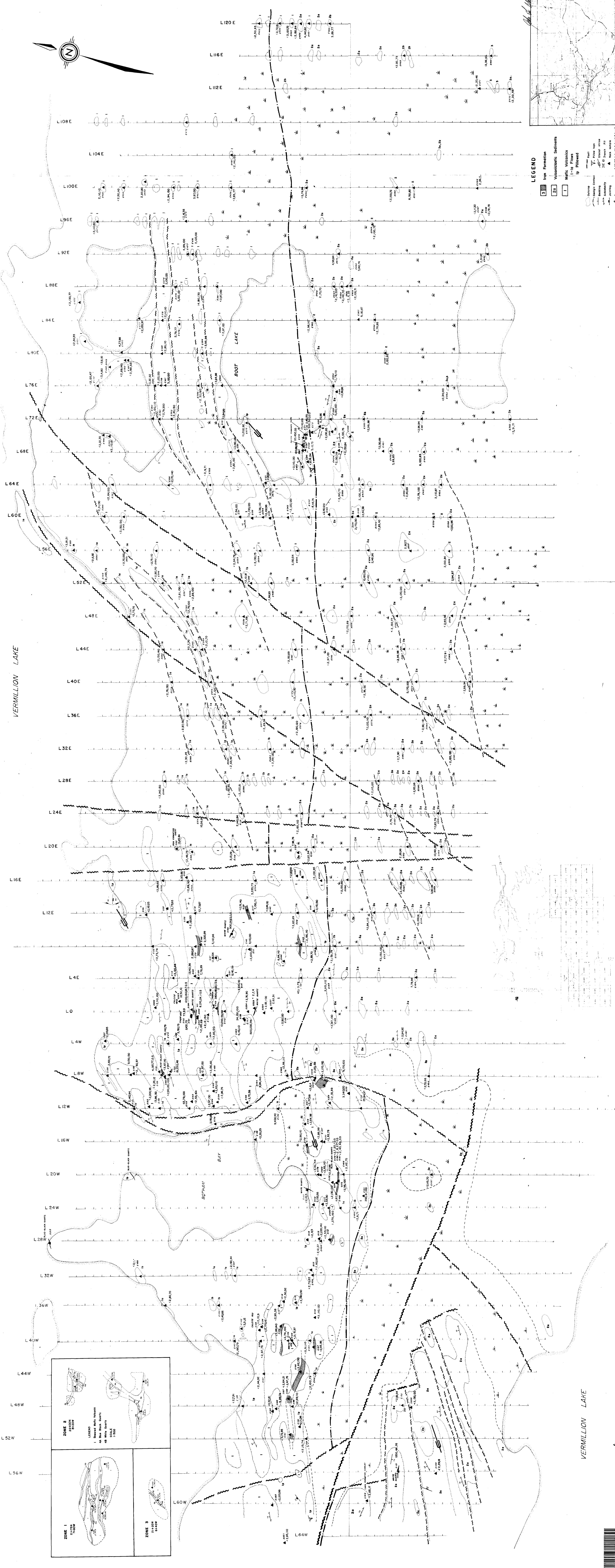
Legend
Magnetic Interpretation
Quartz Vein
Pyritic Material
Structural Features

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52K/015E-0027 #3

VERMILLION LAKE



LEGEND

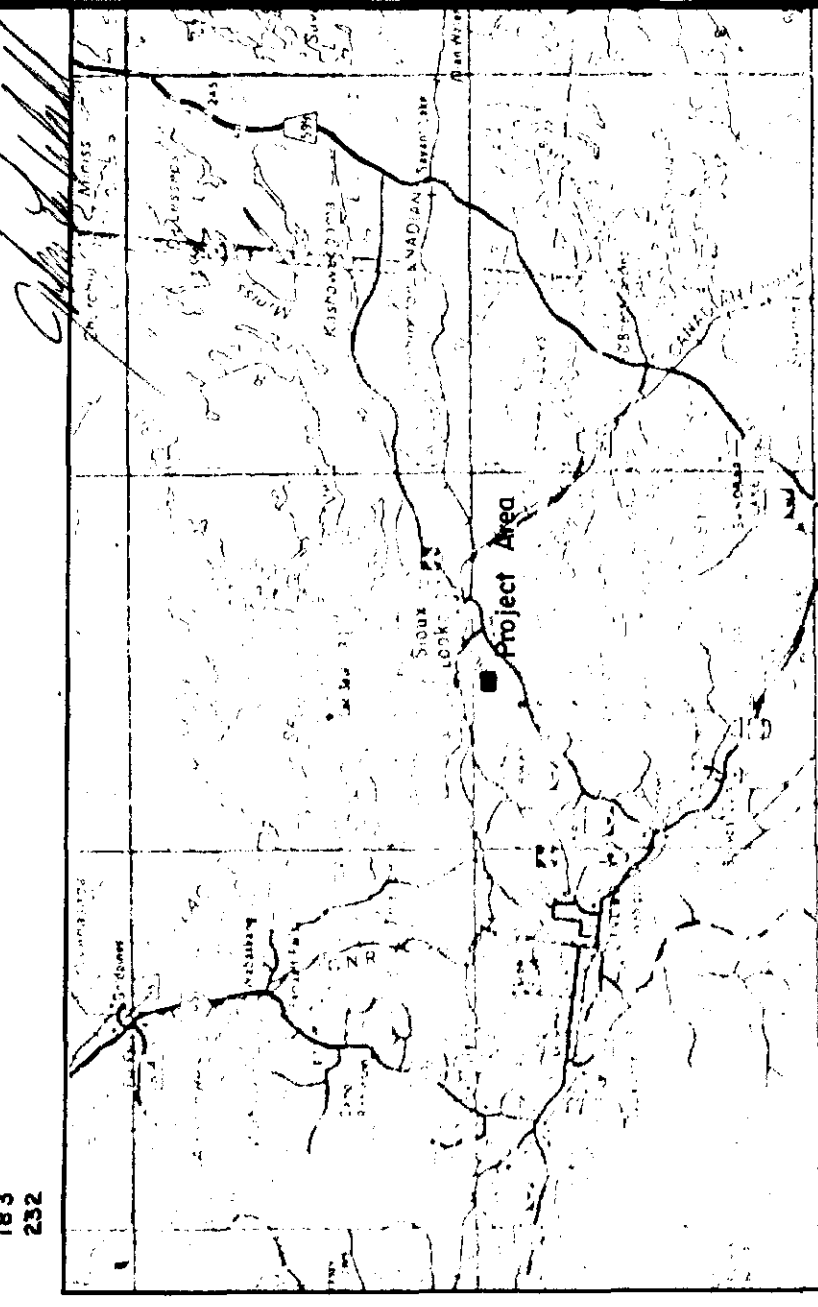
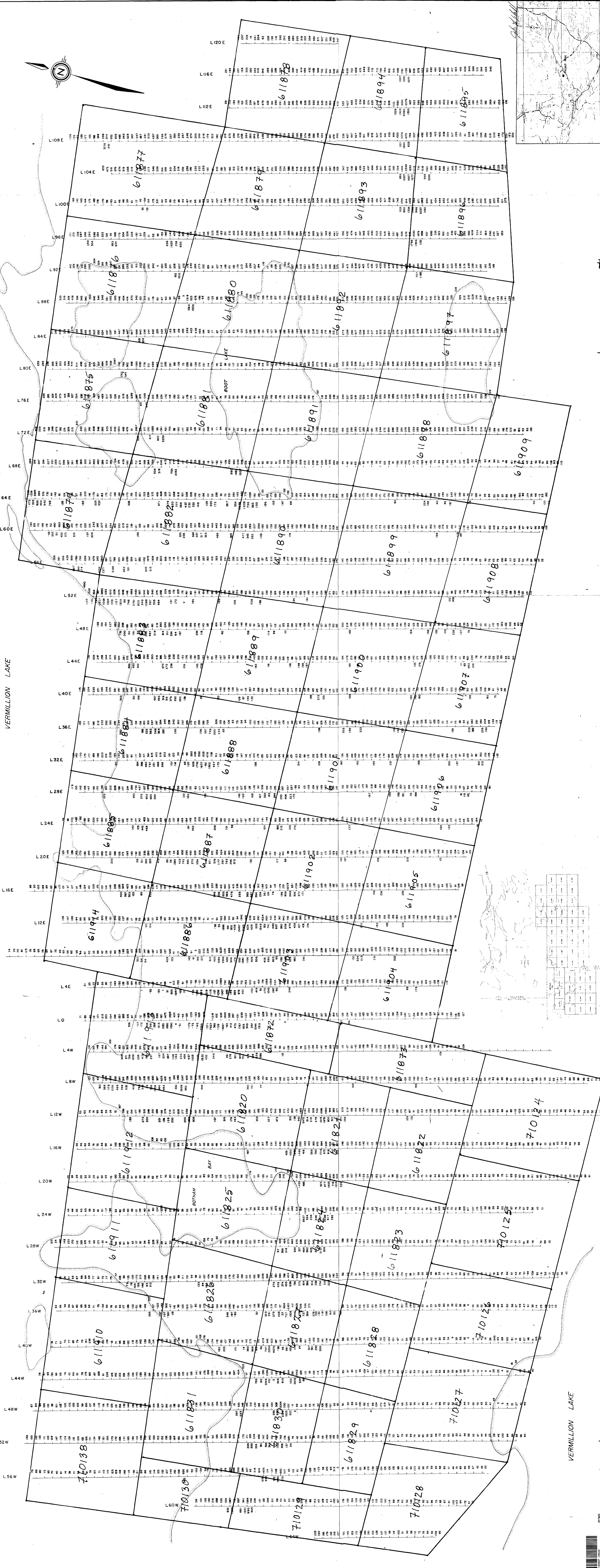
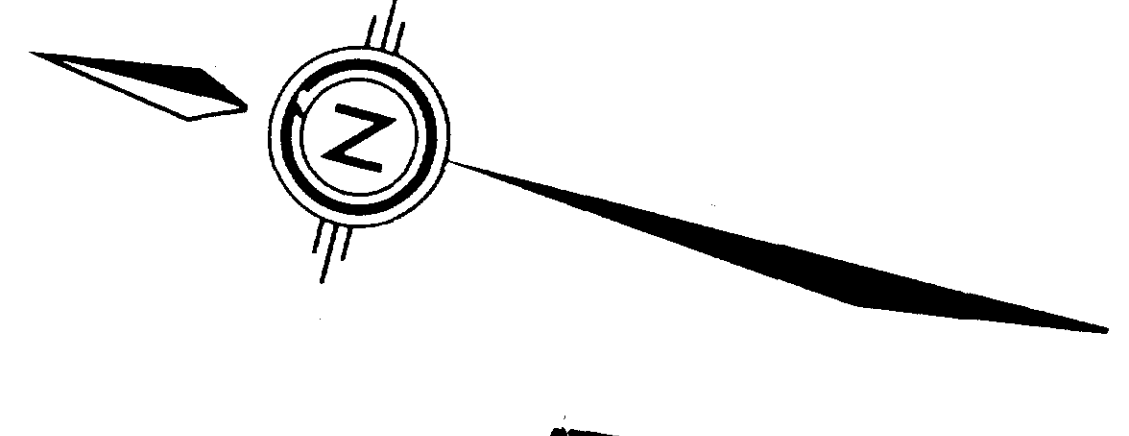
- 3 Iron Formation
- 2 Volcanic Sediments
- 1 Met. Volcanics
- 0 I-10 Flows
- ip Piled
- Outcrop
- Elevation Contour
- Fault
- Boundary
- Dip
- Strike
- Core
- Sample Location
- Station

SIoux LOOKOUT PROJECT

GEOL. - ROCK GEOCHEMISTRY

KERR ADDISON MINES LIMITED
 PREPARED BY: [Name]
 SCALE: [Scale]
 DATE: [Date]
 PROJECT NO: 0-20
 DRAWING NO. 1-10

52K/015E-0027 #3

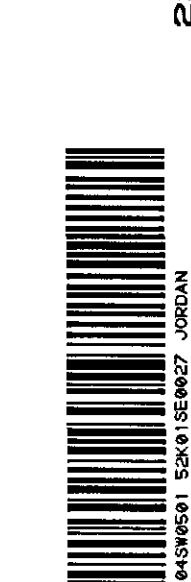


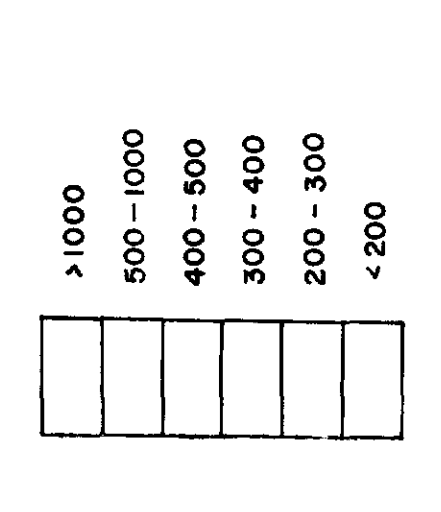
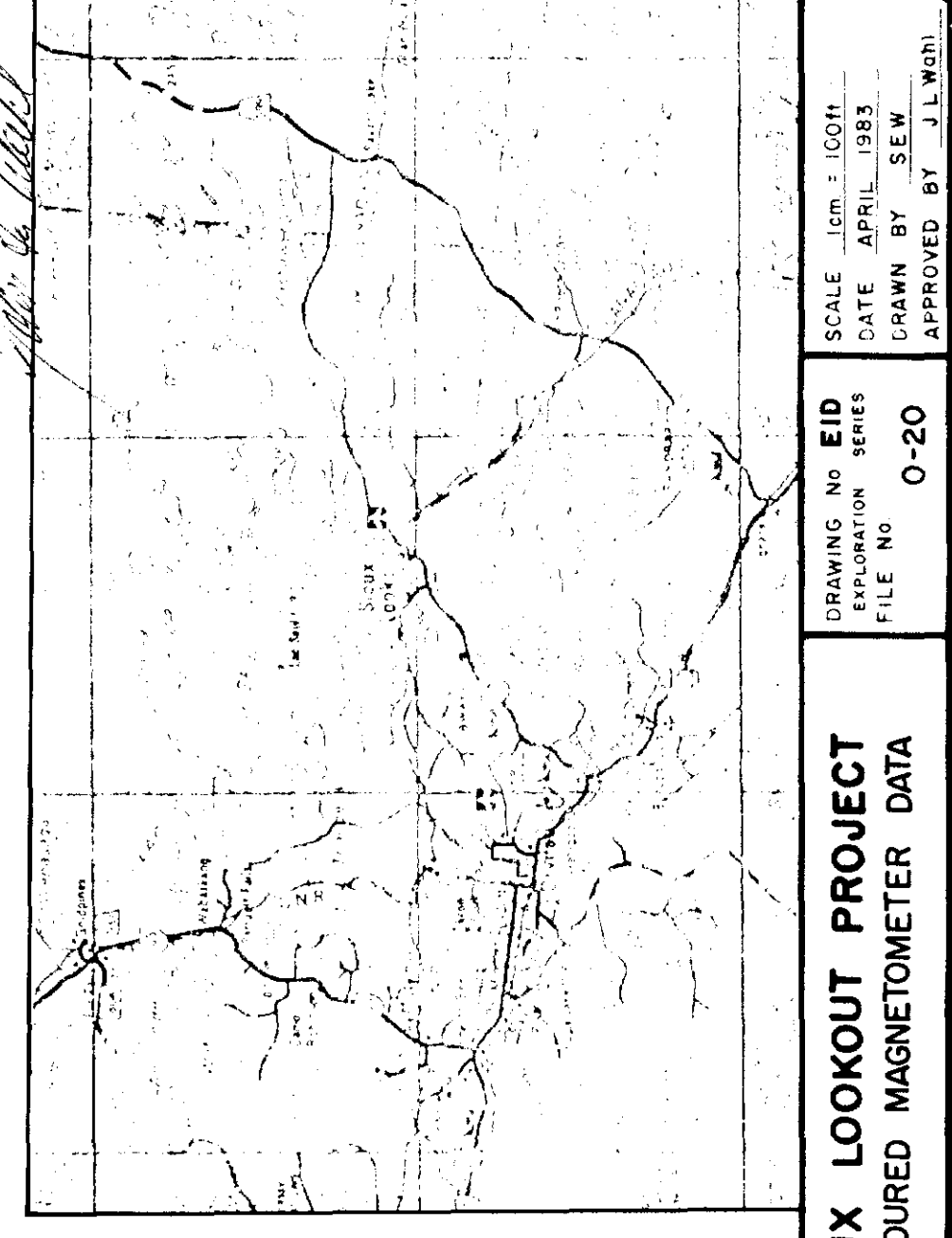
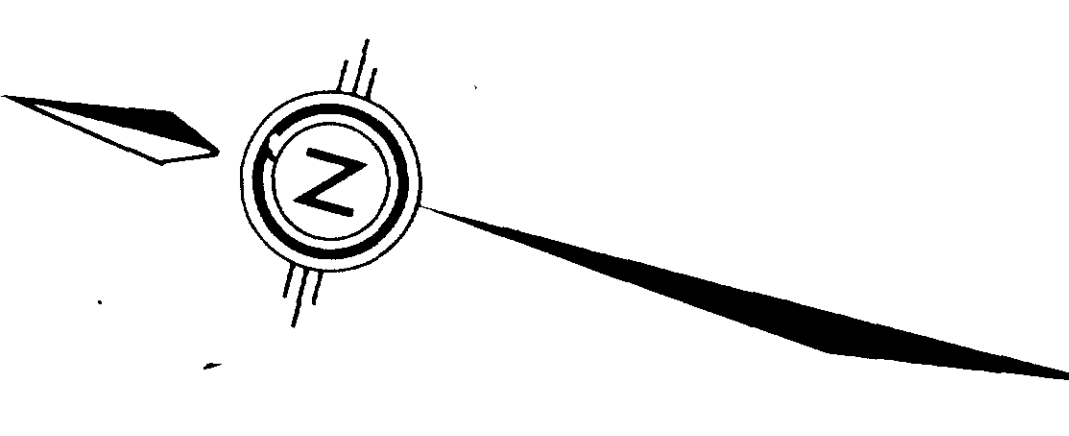
25733
 KERR JOHNSON WINES LIMITED
 SIOUX LOOKOUT PROJECT
 MAGNETOMETER DATA
 FILE NO. 0-20
 PROJECT OF 13/10/01
 DRAWN BY J.E.M.

52k/015E-0027 #4

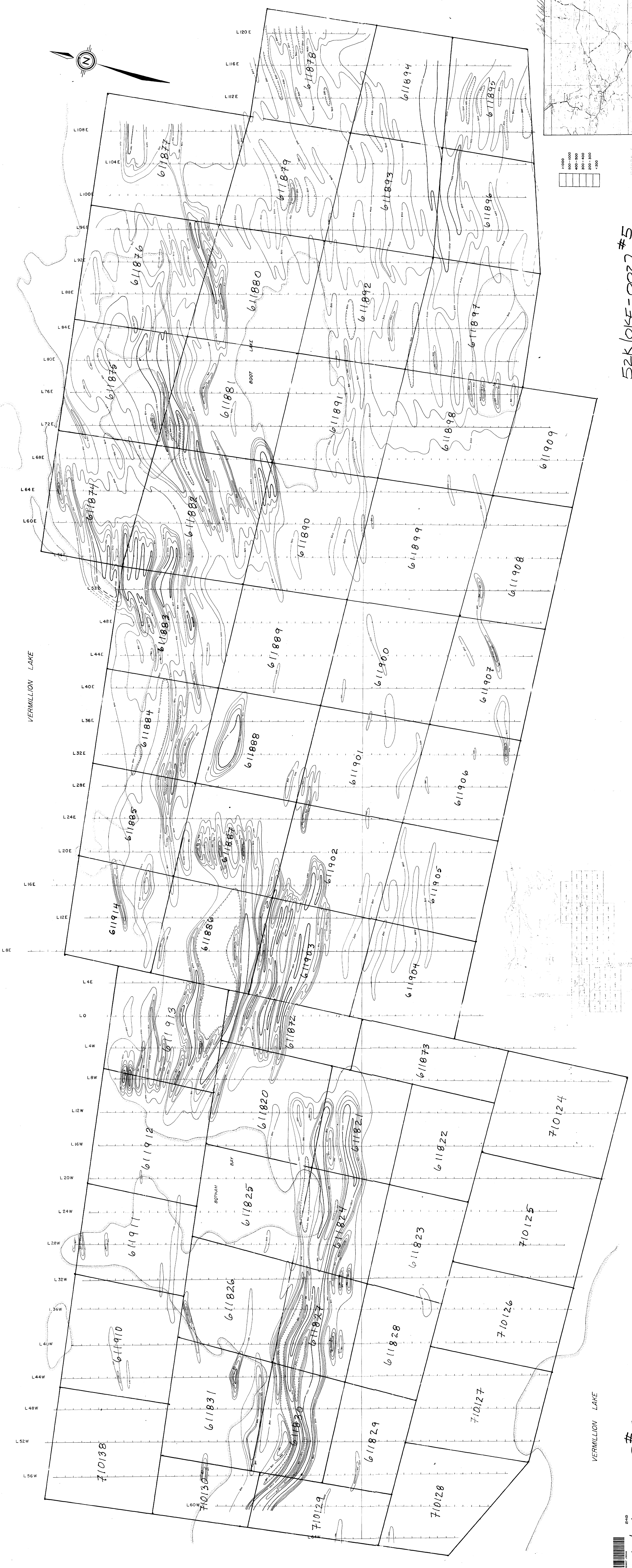
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L100E	3	1.00	100.00
L100E	4	1.00	100.00
L100E	5	1.00	100.00
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L100E	92	1.00	100.00
L100E	93	1.00	100.00
L100E	94	1.00	100.00
L100E	95	1.00	100.00
L100E	96	1.00	100.00
L100E	97	1.00	100.00
L100E	98	1.00	100.00
L100E	99	1.00	100.00
L100E	100	1.00	100.00

52k/015E-0027 #4



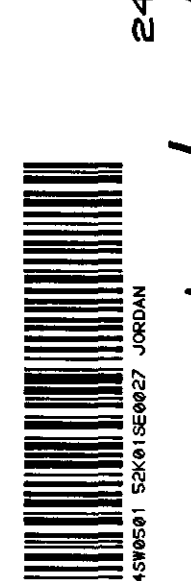


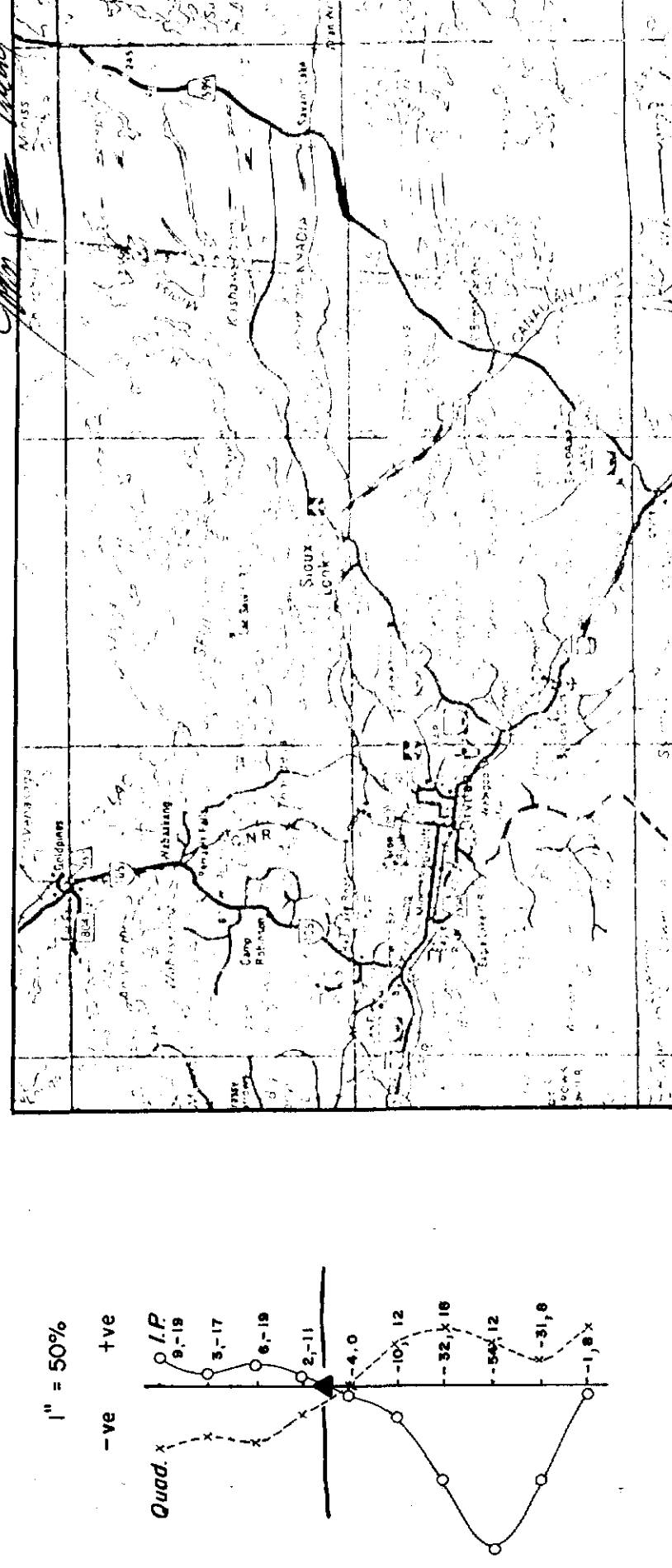
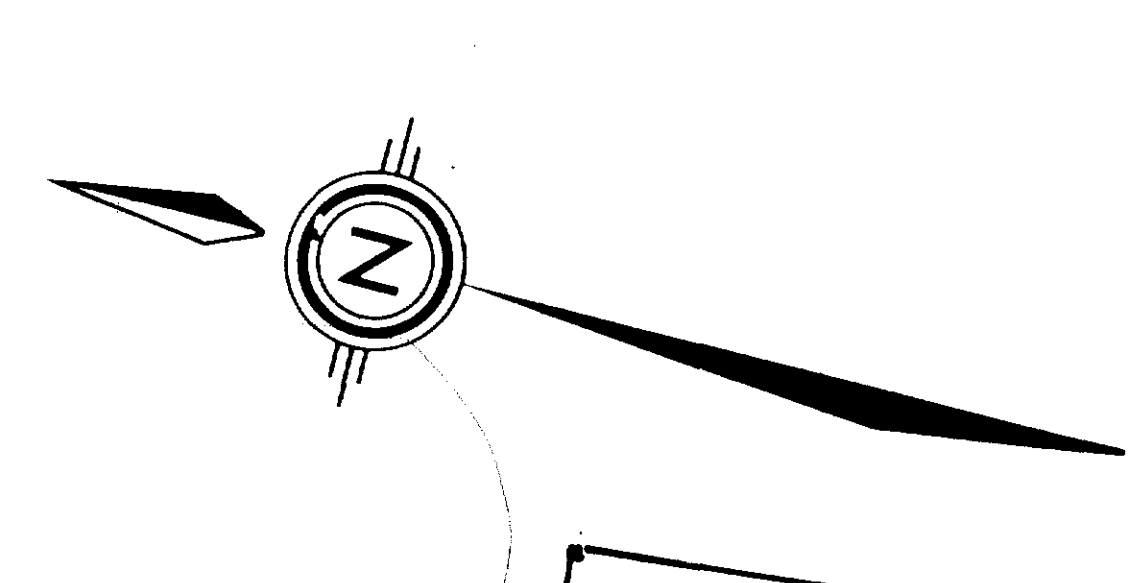
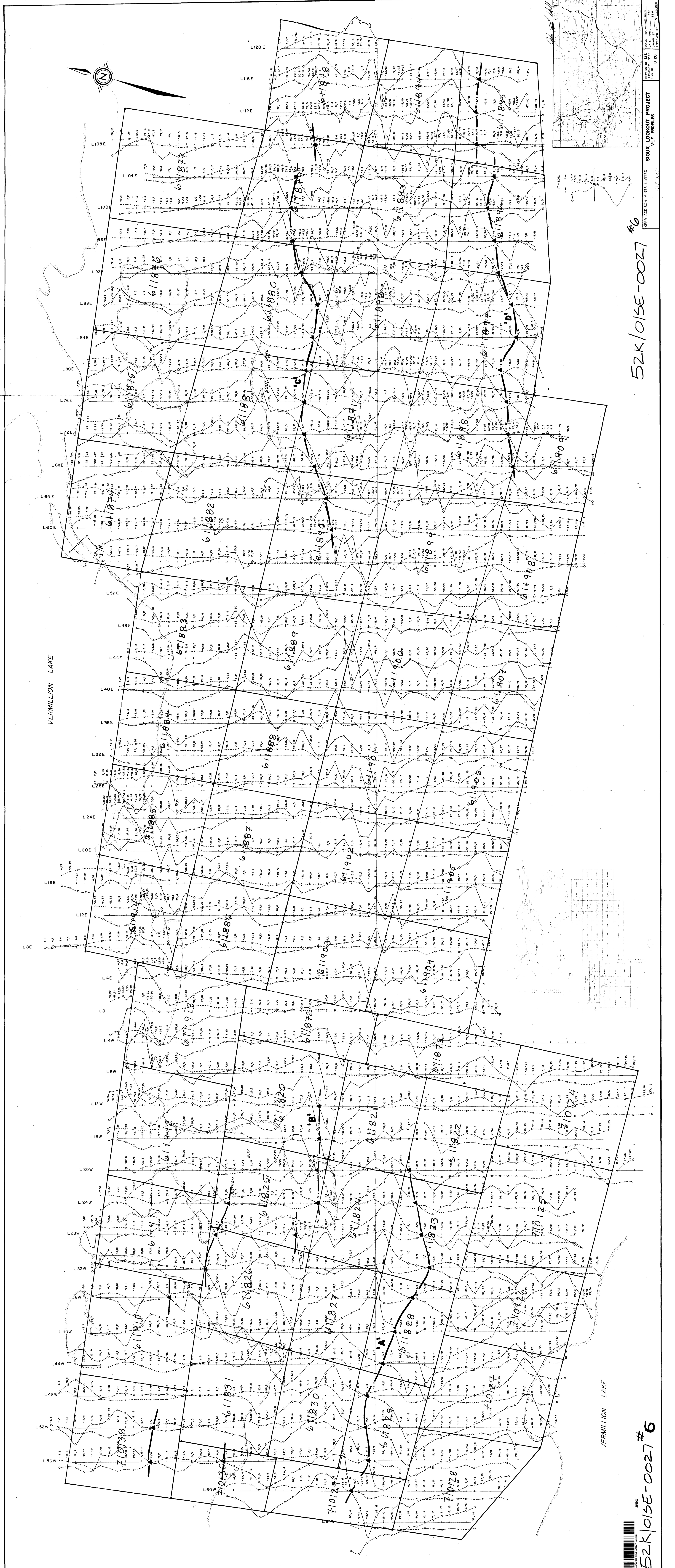
SIoux LOOKOUT PROJECT
 KERR ASSOCIATION WINES LIMITED
 DRAWING NO. 52K/015E-0027 #5
 DATE: 11/11/11
 SCALE: 1:1000
 SHEET NO. 5
 TOTAL SHEETS: 5
 SURVEYED BY: J. W. HAY



52K/015E-0027 #5

52K/015E-0027 #5

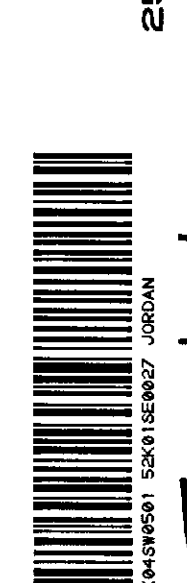


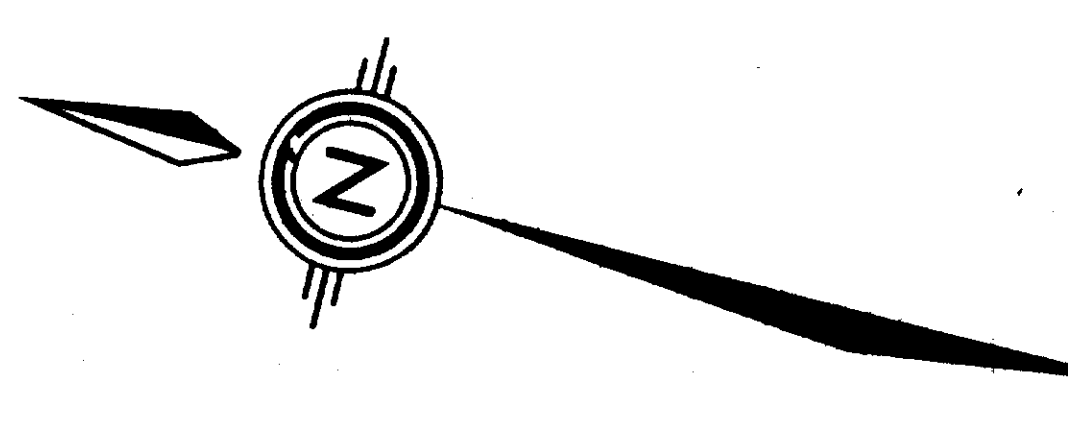


52K/015E-0027 #6

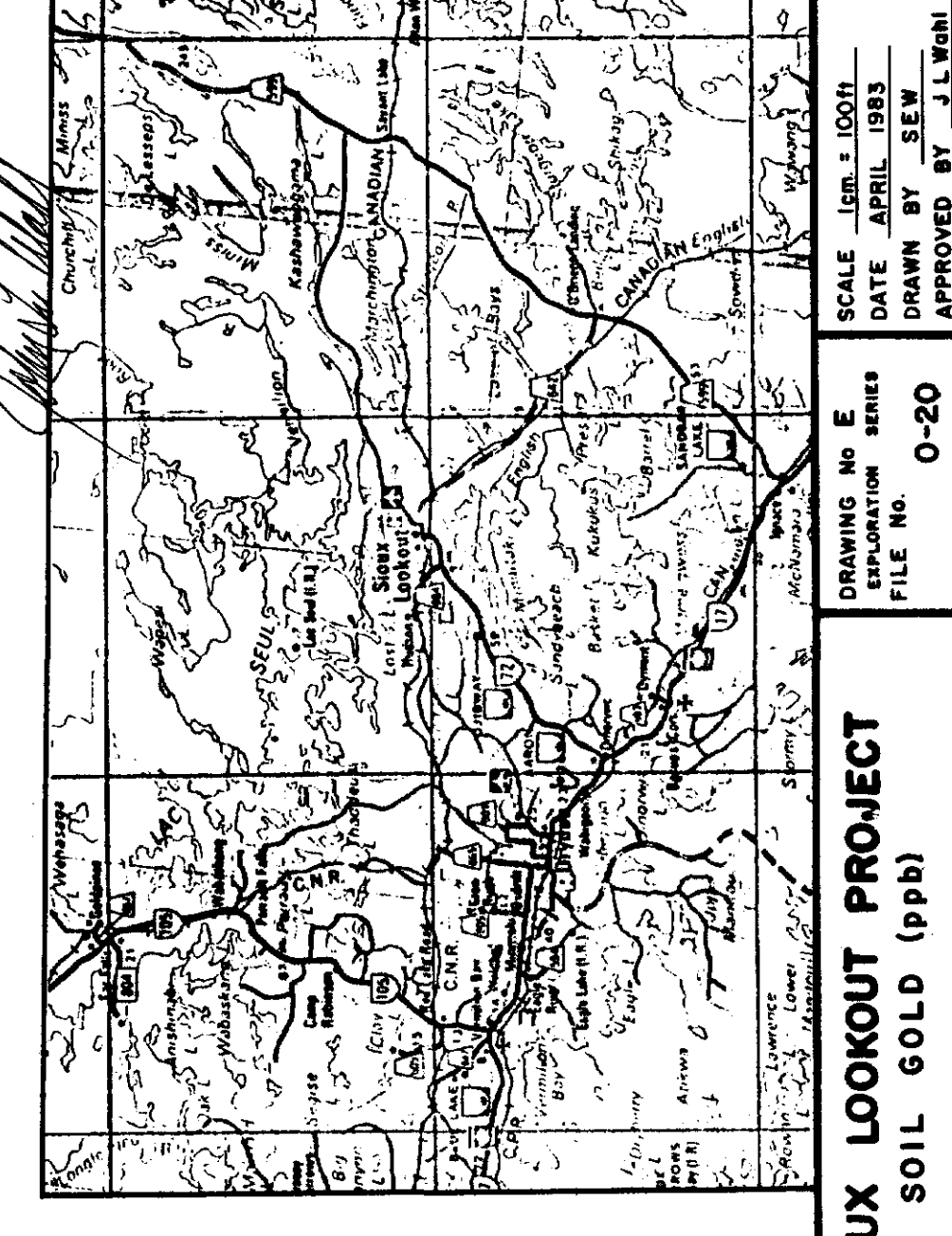
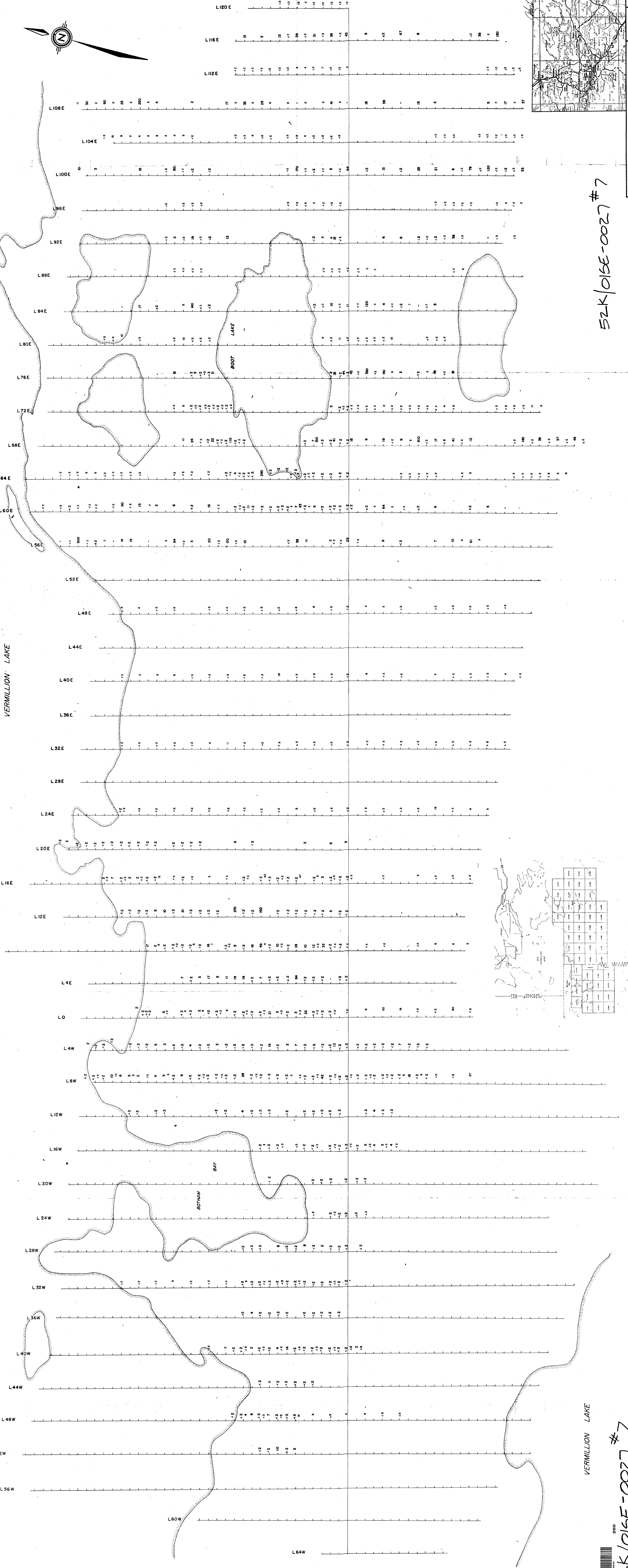
52K/015E-0027 #6

ERR ADDISON WINES LIMITED
SIoux LOOKOUT PROJECT
VLF PROFILES





VERMILLION LAKE

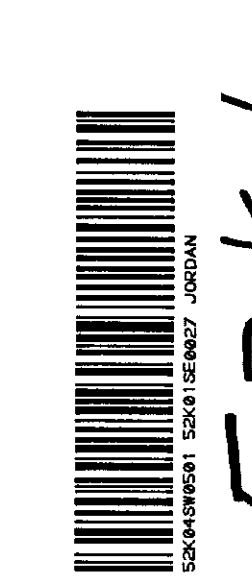


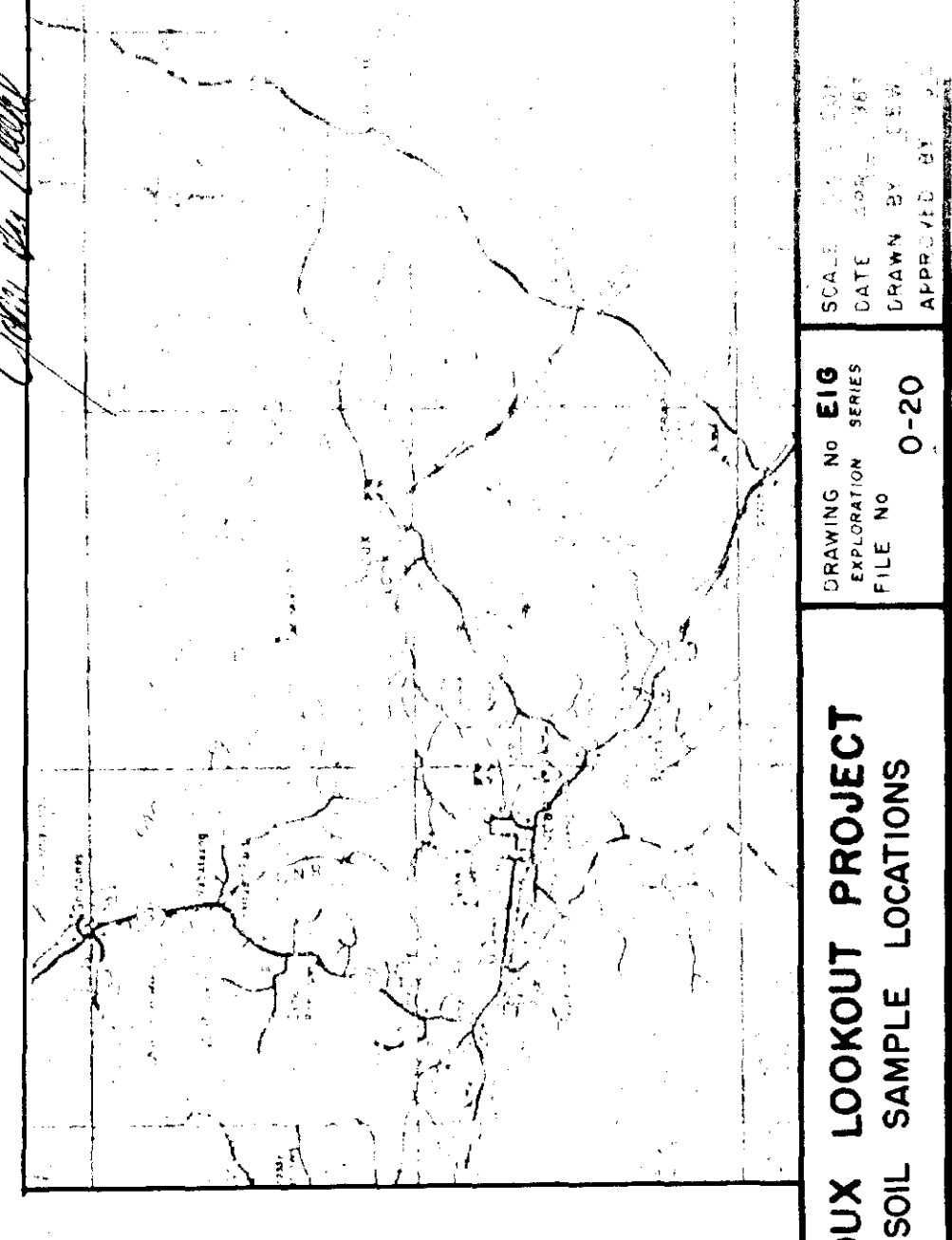
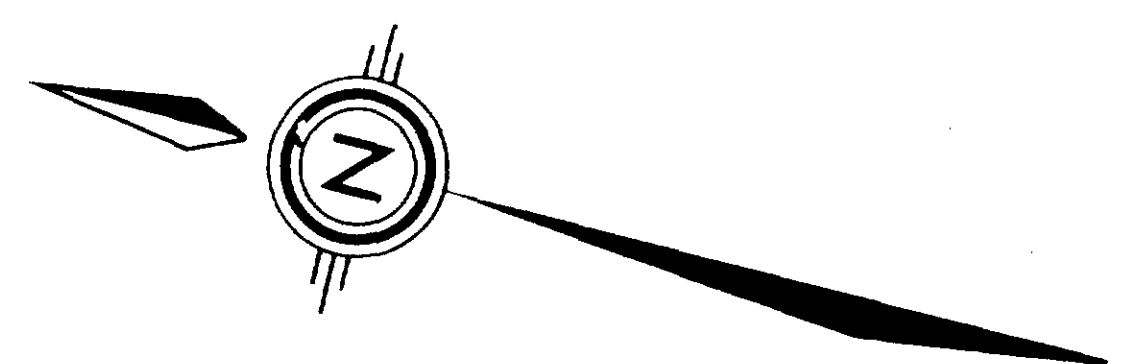
52K/015E-0027 #7

Grid Cell	Soil Type	Depth (cm)	Moisture (%)	Temperature (°C)	pH	EC (µmhos/cm)	Organic Matter (%)	Nitrogen (ppm)	Phosphorus (ppm)	Potassium (ppm)	Sulfur (ppm)	Cadmium (ppm)	Copper (ppm)	Lead (ppm)	Manganese (ppm)	Zinc (ppm)	Barium (ppm)	Chloride (ppm)	Fluoride (ppm)	Selenium (ppm)	Other
L108E
L104E
L100E
L96E
L92E
L88E
L84E
L80E
L76E
L72E
L68E
L64E
L60E
L56E
L52E
L48E
L44E
L40E
L36E
L32E
L28E
L24E
L20E
L16E
L12E
L8E
L4E
L0
L4W
L8W
L12W
L16W
L20W
L24W
L28W
L32W
L36W
L40W
L44W
L48W
L52W
L56W
L60W
L64W

VERMILLION LAKE

52K/015E-0027 #7





028 First Sampling Date
029 Second Sampling Date

SIoux LOOKOUT PROJECT
SOIL SAMPLE LOCATIONS

52K/015E-0027 #8

52K/015E-0027 #8

