



42E12SW0082 2.4213 SUMMERS

2.4213

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OCT 2 1 1981

**MINING LANDS SECTION**

REPORT ON  
VLFEM AND MAGNETOMETER SURVEYS  
TERNOWSKY-RENTZ PROPERTY  
SUMMERS AND EVA TOWNSHIPS  
THUNDER BAY DISTRICT  
ONTARIO  
BY  
W. PATRICK KNOX  
GOLD FIELDS RESOURCES CANADA, LIMITED  
MISSISSAUGA, ONTARIO  
OCTOBER 1981

INTRODUCTION

The Ternowsky-Rentz property is located along strike from the past producing Northern Empire Mine. Production from the Northern Empire amounted to a total of 153,103 oz. of gold from quartz veins within the altered basaltic metavolcanics. On this basis of lithologic and stratigraphic similarities and assay results, this property was optioned.

The 65 contiguous claims in their respective townships are:

The claims within Summers Twp. are:

TB 519491	TB 536026	TB 587210	TB 587222
519492	536027	587211	587223
519493	556627	587212	587224
519494	587201	587213	587259
519780	587202	587214	604539
519781	587203	587215	604540
519782	587204	587216	613703
534841	587205	587217	613705
534842	587206	587218	613706
534843	587207	587219	613707
534856	587208	587220	613708
534857	587209	587221	613704

The claims within Eva Twp. are:

TB 557984	TB 557988	TB 557992	TB 557996
557985	557989	557993	557997
557986	557990	557994	557998
557987	557991	557995	557999
			558000

LOCATION AND ACCESS

Located approximately 116 miles northeast of Thunder Bay and 52 miles west of Geraldton, the Ternowsky-Rentz property comes to within one half a mile west of the town of Beardmore and is situated in Summers and Eva townships. Access is by bush road west from Highway 11 just north of Beardmore. This road is driveable for about 2 miles through the center of the property and is connected to a winter road system of limited extent to the south.

TOPOGRAPHY AND VEGETATION

Two ridges of approximately 220 feet relief run northeasternly-southwesternly along the property boundaries. The southern ridge tends to have steep slopes with cliffs in places on both the north and south faces. The northern ridge has gradually sloping sides. Glaciation has exerted a major influence on the rolling break-valley topography. The lakes are connected to a chain of ponds which vary from open muskeg to cedar and alder swamps. Alder and Black Spruce muskeg are common in the more stagnant areas, while cedar prefer

the flowing water. The forest is composed of Black Spruce, Eastern Hemlock, Paper Birch, Balsam Poplar and Red Cedar. Lower ground is generally covered by Black Spruce with Eastern Hemlock being the predominate sub-species. These areas grade uphill into better drained lands which contain birch, poplar and pine.

#### GENERAL GEOLOGY

The property is situated along a metasediment-metavolcanic contact, with the sediments found to the north of this contact. Silty greywackes predominate with interbedded siltstone and argillite. The greywacke becomes more massive around the lakes along with an increase in quartz vein occurrence. These rocks have undergone chloritic and sericitic alteration which increases along with possible potassic and silicic alteration around the quartz veins. Mineralization, being mainly pyrite and arsenopyrite, is rare and is generally associated with the veining. The units strike predominantly at 069 degrees with 80 degree south dips of veining roughly paralleling bedding; no consistency is observable. Minor folding along a northeast-southwest axis was noted in some locations. To the south, the metavolcanics are composed of predominantly massive basaltic flows. These flows are sheared, silicified and carbonated to varying extents and pass commonly into tuffaceous units. Toward the metasediments a variolitic pillowed flow was found which passes northward into a tuffaceous unit. It is along the pillow basalt-tuff contact that a sulfide and chert-magnetite facies chemical sediment is found. A sulfide facies, lying to the west, is composed of pyrite, arsenopyrite, minor chalcopyrite and graphite. The chert-magnetite facies, to the east, is composed of alternating chert-carbonate and magnetite-quartz with arsenopyrite occurring mainly in the wall rock. The chemical sediments generally follow the flow bedding but are discontinuous along strike. The metavolcanics have undergone silicious, carbonatious, chloritic and silicic alterations which increases around the few quartz vein occurrences. Mineralization consists of arsenopyrite, pyrite and chalcopyrite and is present to some extent throughout, although, it is generally less than 1%. These units generally strike at 071 degrees with 80 degrees south dips. Fault activity is thought to have occurred along the lakes due to more massive greywacke, increased quartz veining, minor folding and topographic expression. Faulting is also thought to occur along the metasediment-metavolcanic contact and is expressed by topography and the occurrence of a gabbroic unit. This gabbroic unit, observed only in the western section of the map area, is seen in contact with the volcanics, but not the sediments. Faulting has also been mapped at the Northern Empire Mine along strike with this property. The last event was the intrusion of northwest trending diabase dykes. Glaciation left a cover consisting of sand to sandy gravel from what appear to be Lacustrine deposits. The glacial cover increases eastward until bedrock is completely covered and is responsible for the topographic features observed along the lakes.

#### LINECUTTING

The main base line was turned-off, cut, chained, and picketed

on a 060 degree astronomic bearing from a point 50 feet north of post 1 of claim 519780. Cross lines were cut at 400 foot intervals along this base line, with pickets indicating stations chained at 100 foot points along the lines. Two short sub-base lines at a 060 degree astronomic bearing were cut at the extreme east and west ends of the property to provide additional control.

A total of 47.36 miles of line were cut, with the picket lines extending to the claim boundaries.

#### MAGNETIC SURVEYING TECHNIQUE

A proton procession magnetometer may be used to measure the strength of the total magnetic field in gamma units. The magnetic field at any particular station will consist of the vectoral sum of the earth's magnetic field and the magnetic field of any anomalous body. The latter is caused by mineralization that is either naturally magnetic or is capable of exhibiting a secondary field induced by the earth's primary field.

Time variations of the earth's magnetic field naturally occur during the course of a magnetic survey. These variations must be removed so that the final magnetic survey results reflect spatial variations only. Two techniques employed to aid the removal of time variations are: (1) frequent visits to a base station with the survey magnetometer, to provide data for a linear or near-linear correction curve, or (2) near-continuous recording of magnetic variations at a base station with a fixed magnetometer, to provide coincident measurement correction of field data.

The final corrected magnetic results, normally presented in profile or plan form, may aid the mineral exploration program in qualitative and quantitative ways. For example, qualitatively, magnetic trends may identify geologic structural trends in areas of limited rock exposure. Quantitatively, magnetic features may be interpreted for depth, dimensions, orientation and magnetization details of causative bodies. Association, directly or indirectly, of magnetic earth materials with economic mineral occurrences is a recognized possibility.

#### VLFEM SURVEYING TECHNIQUE

The VLFEM (VLF electromagnetic) technique utilizes the "VLF" (very low frequency) military stations. Distortion of the local electric fields of these stations can indicate metallic mineralization. These stations are low in frequency for radio stations, and are somewhat high in frequency for exploration purposes. However, for shallow exploration, the VLFEM technique is quite useful since only a receiver is needed, and therefore a one man operation is possible. The higher frequency tends to favor search for targets somewhere between the massive-continuous conductors sought by standard electromagnetic techniques, and disseminated mineralization

sought by IP techniques. In actuality, the technique can be quite responsive to conductive soils and topographic conditions, so that genuine anomalies due to mineralization often have to be sorted out.

Quantities measured are dip-angle and signal amplitude of the radio field. Ideally, these two quantities will mutually confirm an anomalous response. The dip-angle data mathematically are reduced to "Fraser Filter" data to permit contour data to correspond in plan to actual response zones.

The VLFEM data were obtained using a Phoenix VLF-2 receiver. The signal amplitude data were taken utilizing a base station, similar to the magnetic surveying procedure, to provide corrections for diurnal variations of the radio field. For this survey, the Seattle, Washington VLF station was used. This station lies in the general strike direction of the principal rock units in the area, to provide adequate electromagnetic coupling to conductors having this general strike.

The combined magnetic-VLFEM survey of this property was done in part by Northwest Geophysics of Thunder Bay, Ontario, and in part by personnel of Gold Fields Resources Canada.

## RESULTS AND INTERPRETATION

### VLFEM

Prominent VLFEM response zones traverse the claims. For the most part, they have the same general 69 to 73 degree trend as the general geological units. In the metasediments of the northern claims, the principal VLFEM response zone generally coincides with a prominent chain of lakes. This response zone could relate to water, topography, and the principal fault system that formed the lakes. Data could not be obtained over some lake portions during the summer survey, but it is probable that the principal VLFEM response zone is more or less continuous along the lakes. In addition, glaciation may have produced water-filled sand channels elsewhere in the metasediments to produce observed VLFEM responses parallel to the lakes. The possibility of massive metallic conductors associated with the chain of lakes axis and fault zones in the metasediments cannot be ruled out, but generally the geology suggests such to be of low order.

To the south, the metasediment-metavolcanic contact generally gives an excellent VLFEM response; the VLFEM response does much to pinpoint the contact. The anomaly seems to be a combination of response to the contact itself, which may be a faulted and mineralized zone, plus a response to topography along the contact. Some graphite may be present along the contact.

South of the contact, by about 500 to 800 feet, is another well-developed VLFEM response zone. Much of this zone relates directly to an alteration zone which traverses the area. The alteration

zone contains significant amounts of graphite, and is considered a likely zone for massive sulfide mineralization in addition.

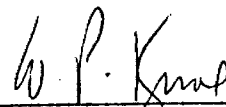
Near the central part of VLFEM Map 2, the more southerly VLFEM response zone displays a deviation from the general strike. This probably has structural implications which could have exploration value. Adding to this, the chain of lakes within the metasediments shows a deviation from the general on-strike trend of the geological structure in the same area, with the chain swinging closer to the metasediment-metavolcanic boundary.

#### MAGNETICS

The magnetics in the metavolcanics are generally more disturbed than those over the metasediments, as expected. The higher magnetic responses in the metavolcanics generally coincide with the VLFEM response zones, but are less continuous than them. In particular, the alteration zone 500 to 800 feet south of the contact gives higher level but laterally sporadic magnetic responses; iron formation is noted in this zone, to account for these responses.

In the central part of Magnetic Map 2, some locally moderate magnetic responses are observed within the metasediments. These could relate to structural features striking across the general 70 degree trend of the principal geologic units, and may have exploration value.

Ontario GSC Aeromagnetic Maps 2135G (Beardmore) and 2128G (Shakespeare Island) cover the claims area treated in this report. These surveys were flown at 1000 feet m.t.c. Approximately one mile north of the claims group is a prominent iron formation which runs parallel to the general 70 degree geologic strike of the area. The iron formation and its magnetic response persists for a strike length in excess of 50 miles east-west. The southern flank of this magnetic anomaly extends across the claims group but does not notably detect the magnetic zones identified on the ground. This indicates a lack of strong lateral and depth continuity of individual or collective magnetic zones within the metavolcanics, which in turn might relate to general alteration of this rock unit.



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W. Patrick Knox



# GEOPHYSICAL TECHNICAL DATA

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

Number of Stations 2453 VLF 2453  
Number of Readings Mag 2894  
Station interval 100' Line spacing 400'  
Profile scale Dip angle: 1"=20degrees  
Contour interval Magnetics: 100 gammas. Horizontal field strength: 10

## MAGNETIC

Instrument Proton Precession, Geometrics G-816  
Accuracy – Scale constant + 1 gamma  
Diurnal correction method base station recorder  
Base Station check-in interval (hours) N.A.  
Base Station location and value Line 0 at base line - value - 60,007 gammas

## ELECTROMAGNETIC

Instrument Phoenix VLF-2  
Coil configuration N.A.  
Coil separation N.A.  
Accuracy N.A.  
Method:  Fixed transmitter  Shoot back  In line  Parallel line  
Frequency 18.6 Khz. (Seattle, Washington, U.S.A.)  
(specify V.L.F. station)  
Parameters measured Horizontal Field Strength, Dip Angle

## 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 \_\_\_\_\_



SCHEDULE OF CLAIMS

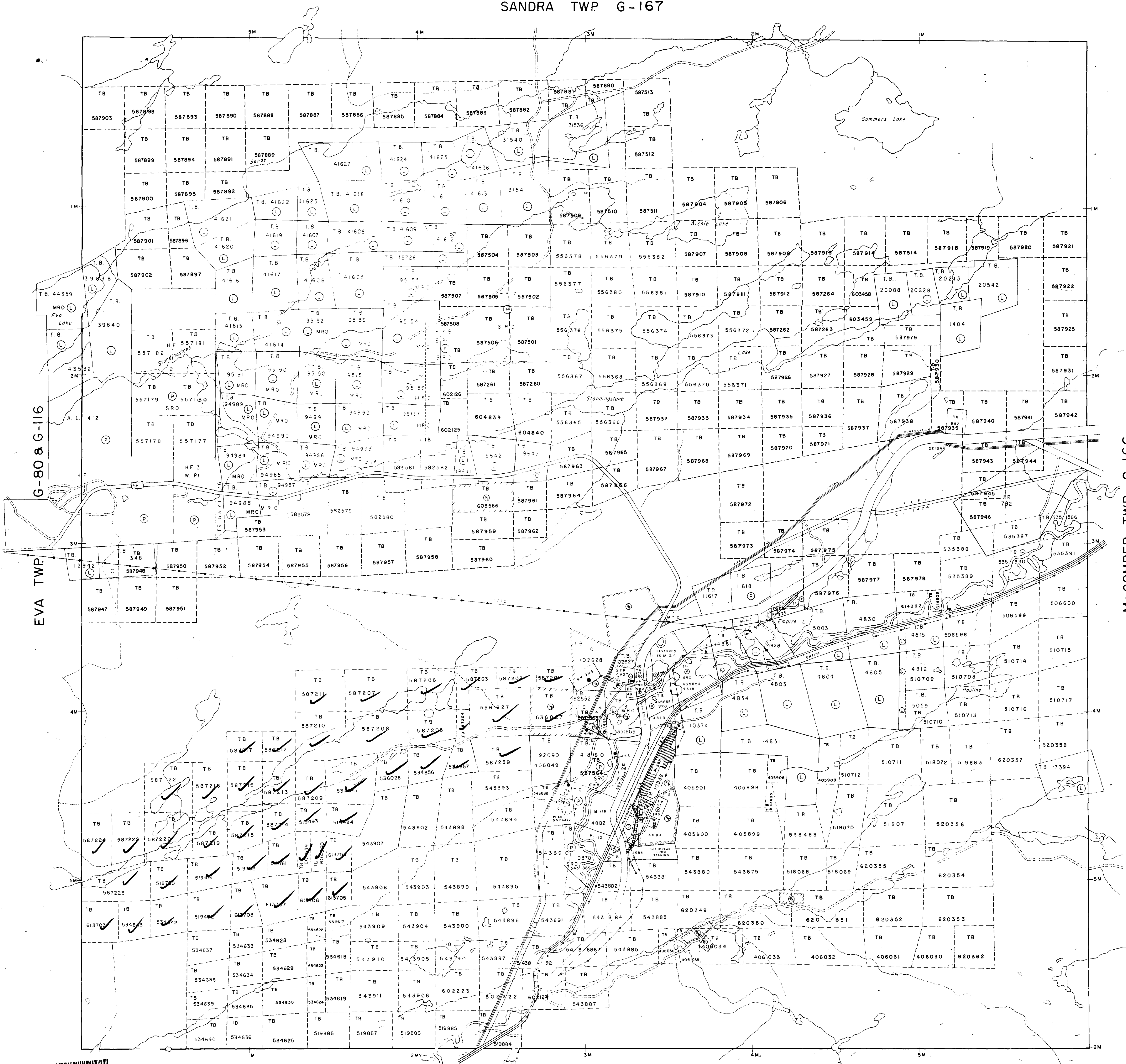
Summers Twp:

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Eva Twp:

TB 557984	TB 557988	TB 557992	TB 557996
557985	557989	557993	557997
557986	557990	557994	557998
557987	557991	557995	557999
			558000

SANDRA TWP G-167



DISPOSITION OF CROWN LANDS

TYPE OF DOCUMENT	SYMBOL
PATENT, SURFACE & MINING RIGHTS	●
" SURFACE RIGHTS ONLY	○
" MINING RIGHTS ONLY	○
LEASE, SURFACE & MINING RIGHTS	○
" SURFACE RIGHTS ONLY	○
" MINING RIGHTS ONLY	○
LICENCE OF OCCUPATION	○
ORDER-IN-COUNCIL	OC
RESERVATION	○
CANCELLED	○
SAND & GRAVEL	○

NOTE: MINING RIGHTS IN PARCELS PATENTED PRIOR TO MAY 6, 1913, VESTED IN ORIGINAL PATENTEE BY THE PUBLIC LANDS ACT, R.S.O. 1910, CHAP. 380, SEC. 63, SUBSEC. 1.

LEGEND

PATENTED LAND	Ⓟ
CROWN LAND SALE	CS
LEASES	Ⓞ
LOCATED LAND	Ⓞ
LICENCE OF OCCUPATION	L.O.
MINING RIGHTS ONLY	M.R.O.
SURFACE RIGHTS ONLY	S.R.O.
ROADS	—
IMPROVED ROADS	—
KING'S HIGHWAYS	—
RAILWAYS	—
POWER LINES	—
MARSH OR MUSKEG	—
MINES	—
CANCELLED	—

NOTES

Township of Summers lies within Beardmore Improvement District.

SAND AND GRAVEL

- ① M.T.C. Gravel Pit 916
- ② Gravel File 59506
- ③ M.T.C. Gravel Pit 2 C-1
- ④ M.T.C. Gravel Pit 647 File 59506
- ⑤ M.T.C. Gravel Pit 1199
- ⑥ Gravel File 59506
- ⑦ Quarry Permit

AREAS WITHDRAWN FROM DISPOSITION

Description	Order No.	Date	Disposition	File
Withdrawn from staking			File 59262	
Withdrawn from staking			Sect. 42(R.S.O. '60) of the Mining Act	File 59409
Withdrawn from staking				

DATE OF ISSUE

MAR - 4 1982  
Ministry of Natural Resources  
TORONTO

SCALE: 1 INCH = 20 CHAINS

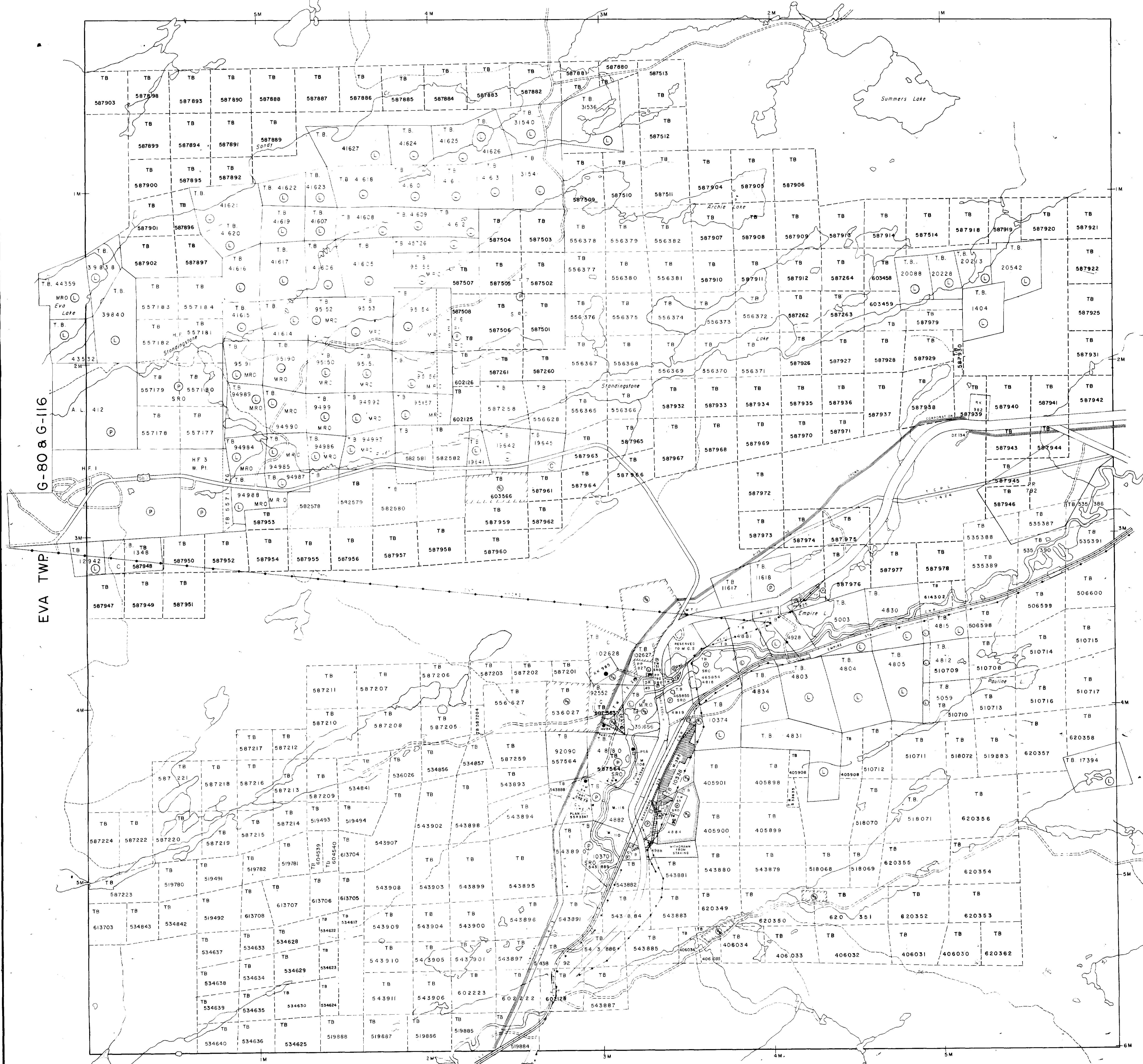
TOWNSHIP  
**SUMMERS**  
M.N.R. ADMINISTRATIVE DISTRICT  
**NIPIGON**  
MINING DIVISION  
**THUNDER BAY**  
LAND TITLES - REGISTRY DIVISION  
**THUNDER BAY**

Ministry of Natural Resources  
Ontario

Date FEBRUARY 11th, 1991  
Number  
24213  
**G-165**



SANDRA TWP G-167



DISPOSITION OF CROWN LANDS

TYPE OF DOCUMENT	SYMBOL
PATENT, SURFACE & MINING RIGHTS	●
" SURFACE RIGHTS ONLY	○
" MINING RIGHTS ONLY	○
LEASE, SURFACE & MINING RIGHTS	■
" SURFACE RIGHTS ONLY	■
" MINING RIGHTS ONLY	■
LICENCE OF OCCUPATION	○
ORDER-IN-COUNCIL	○
RESERVATION	○
CANCELLED	○
SAND & GRAVEL	○

NOTE: MINING RIGHTS IN PARCELS PATENTED PRIOR TO MAY 6, 1913, VESTED IN ORIGINAL PATENTEE BY THE PUBLIC LANDS ACT, R.S.O. 1970, CHAP. 380, SEC. 63, SUBSEC. 1.

LEGEND

PATENTED LAND	Ⓟ
CROWN LAND SALE	CS
LEASES	Ⓛ
LOCATED LAND	Ⓛ
LICENCE OF OCCUPATION	L.O.
MINING RIGHTS ONLY	M.R.O.
SURFACE RIGHTS ONLY	S.R.O.
ROADS	—
IMPROVED ROADS	—
KING'S HIGHWAYS	—
RAILWAYS	—
POWER LINES	—
MARSH OR MUSKOG	—
MINES	—
CANCELLED	—

NOTES

Township of Summers lies within Beardmore Improvement District.

**SAND AND GRAVEL**

Ⓜ	M.T.C. Gravel Pit 916
Ⓜ	Gravel File 59506
Ⓜ	M.T.C. Gravel Pit 2 C-1
Ⓜ	M.T.C. Gravel Pit 647 File 59506
Ⓜ	M.T.C. Gravel Pit 1119
Ⓜ	Gravel File 59506

AREAS WITHDRAWN FROM DISPOSITION

Description	Order No.	Date	Disposition	File
Ⓜ			Withdrawn from staking File 59262	
Ⓜ			Withdrawn from staking Sect 42(R.S.O. '60) of the Mining Act File 59409	
Ⓜ			Withdrawn from staking	

DATE OF ISSUE  
**OCT 26 1981**

Ministry of Natural Resources  
TORONTO

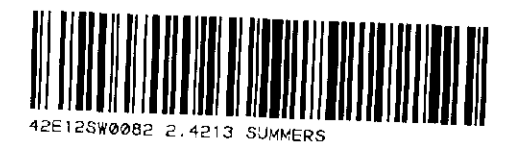
SCALE: 1 INCH = 20 CHAINS

TOWNSHIP  
**SUMMERS**  
M.N.R. ADMINISTRATIVE DISTRICT  
**NIPIGON**  
MINING DIVISION  
**THUNDER BAY**  
LAND TITLES - REGISTRY DIVISION  
**THUNDER BAY**

Ministry of Natural Resources  
Ontario  
Land Management Branch

Date FEBRUARY 11th, 1981  
Number **G-165**

BEARDMORE AREA G-7



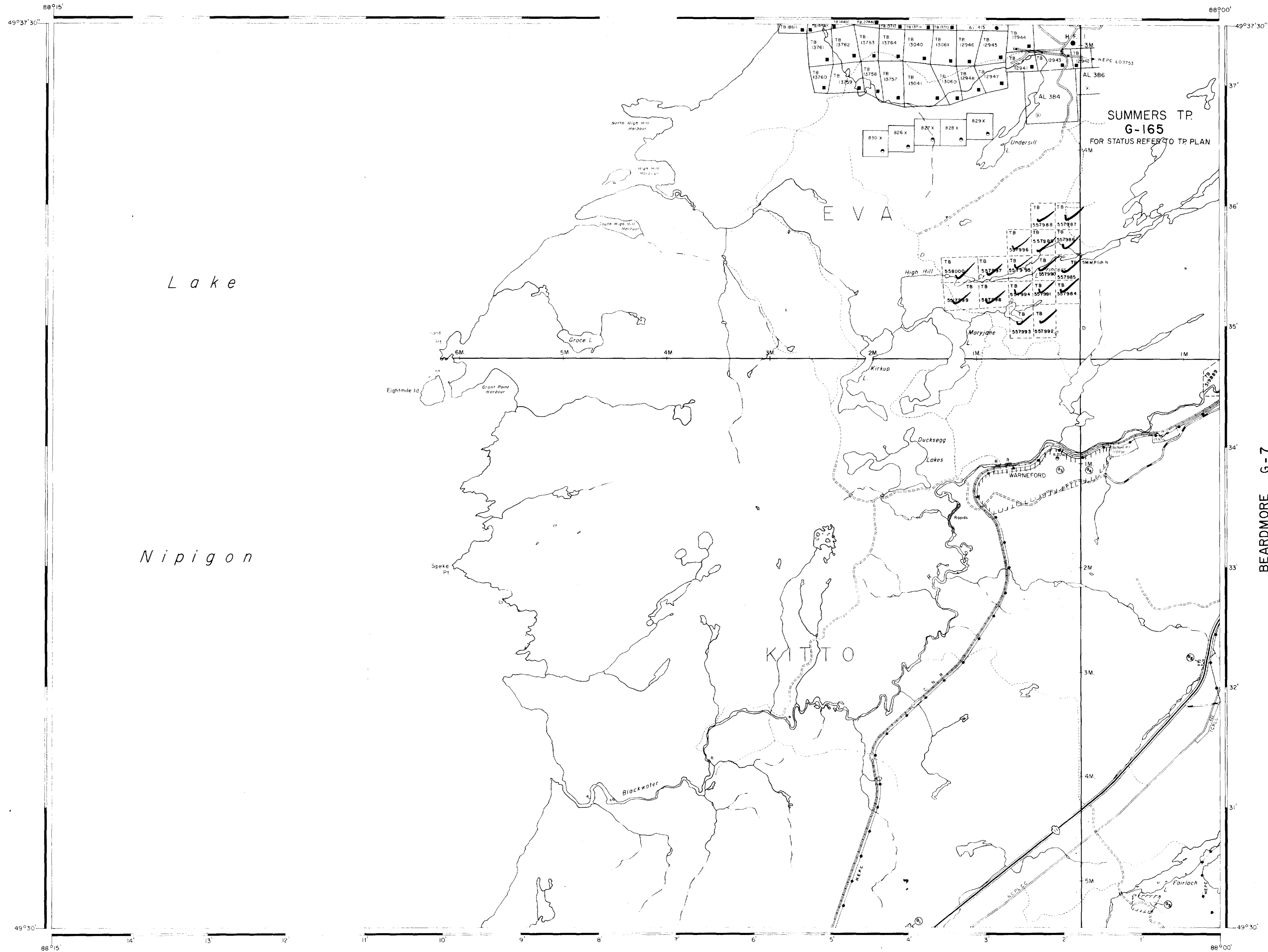
NOTES

Reserve FLOODING RIGHTS on Lake Nipigon to contour elev. 855' to H.E.P.C.  
 O.C. dated 25th April 1930. File 12198.  
 Also reserve 66' from 855' contour to H.E.P.C.

SAND & GRAVEL

- ① M.T.C. PIT No 754
- ② GRAVEL FILE: 187827
- ③ M.T.C. PIT No. 20-10 FILE: 153687
- ④ QUARRY PERMIT

POPLAR POINT G-116



DATE OF ISSUE  
**MAR - 4 1982**  
 Ministry of Natural Resources  
 TORONTO

LEGEND

- HIGHWAY AND ROUTE No.
- OTHER ROADS
- TRAILS
- SURVEYED LINES
- TOWNSHIPS, RANGE LINES, ETC.
- LOTS, MINING CLAIMS, PARCELS, ETC.
- UNSURVEYED LINES
- LOT LINES
- PARCEL BOUNDARY
- MINING CLAIMS, ETC.
- RAILWAY AND RIGHT OF WAY
- UTILITY LINES
- NON PERENNIAL TREES
- FLOODING OR FLOODING RIGHTS
- SUBDIVISION
- ORIGINAL SHORELINE
- MARSH OR MUSKEG
- MINES

DISPOSITION OF CROWN LANDS

- | TYPE OF DOCUMENT                | SYMBOL |
|---------------------------------|--------|
| PATENT, SURFACE & MINING RIGHTS | ●      |
| " SURFACE RIGHTS ONLY           | ○      |
| " MINING RIGHTS ONLY            | ◐      |
| LEASE, SURFACE & MINING RIGHTS  | ◑      |
| " SURFACE RIGHTS ONLY           | ◒      |
| " MINING RIGHTS ONLY            | ◓      |
| LICENCE OF OCCUPATION           | ◔      |
| CROWN LAND SALE                 | CS     |
| ORDER-IN-COUNCIL                | OC     |
| RESERVATION                     | RS     |
| CANCELLED                       | ⊖      |
| SAND & GRAVEL                   | ⊙      |

SCALE: 1 INCH = 40 CHAINS

AREA  
**MARYJANE LAKE**  
 M.N.R. ADMINISTRATIVE DISTRICT  
**NIPIGON**  
 MINING DIVISION  
**THUNDER BAY**  
 LAND TITLES / REGISTRY DIVISION  
**THUNDER BAY**

Ministry of Natural Resources  
 Land Management Branch

Date 17/FEB./1981

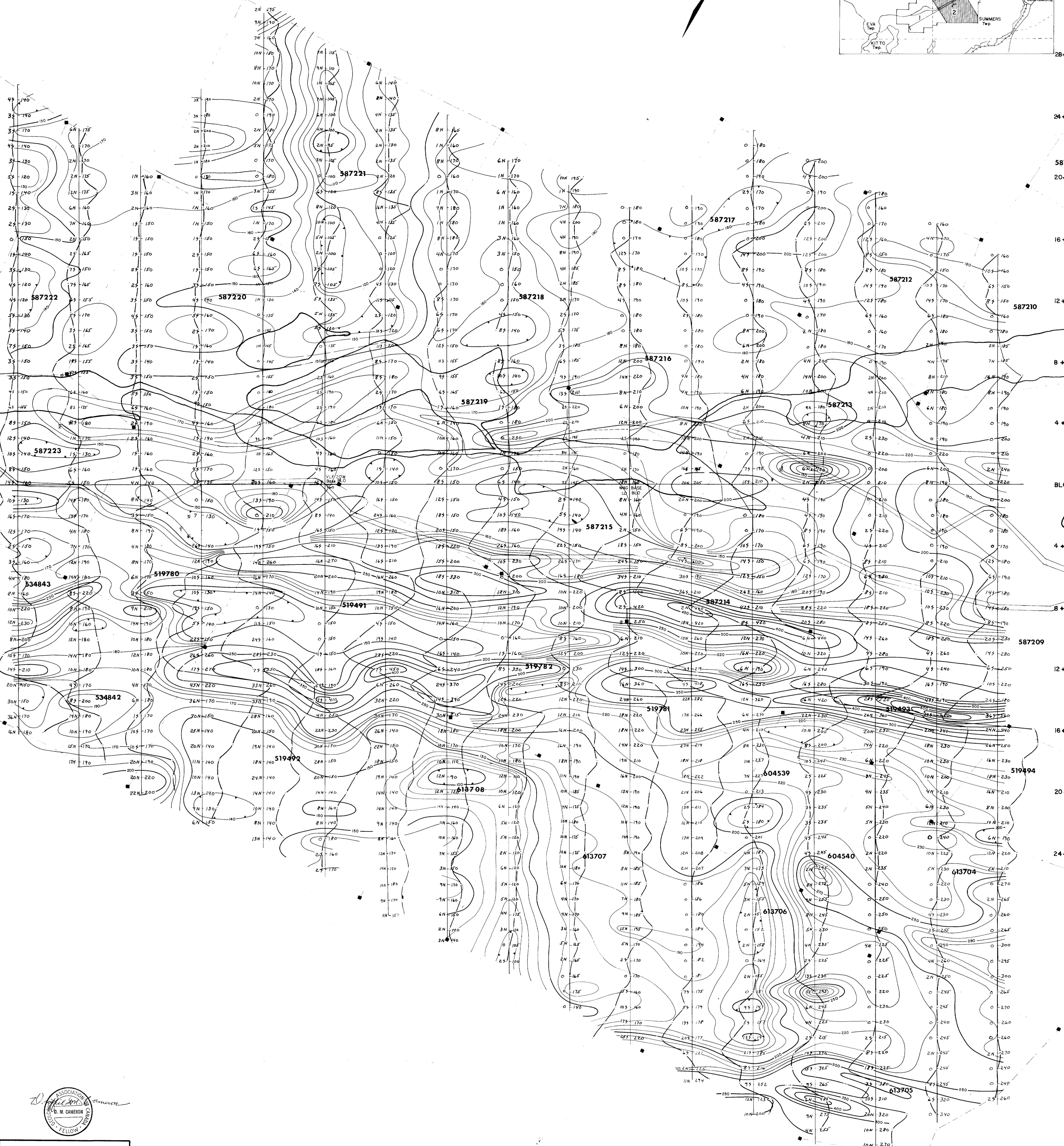
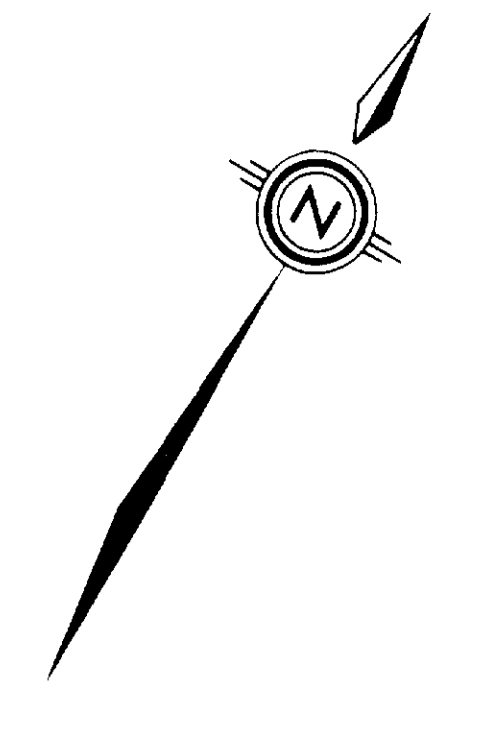
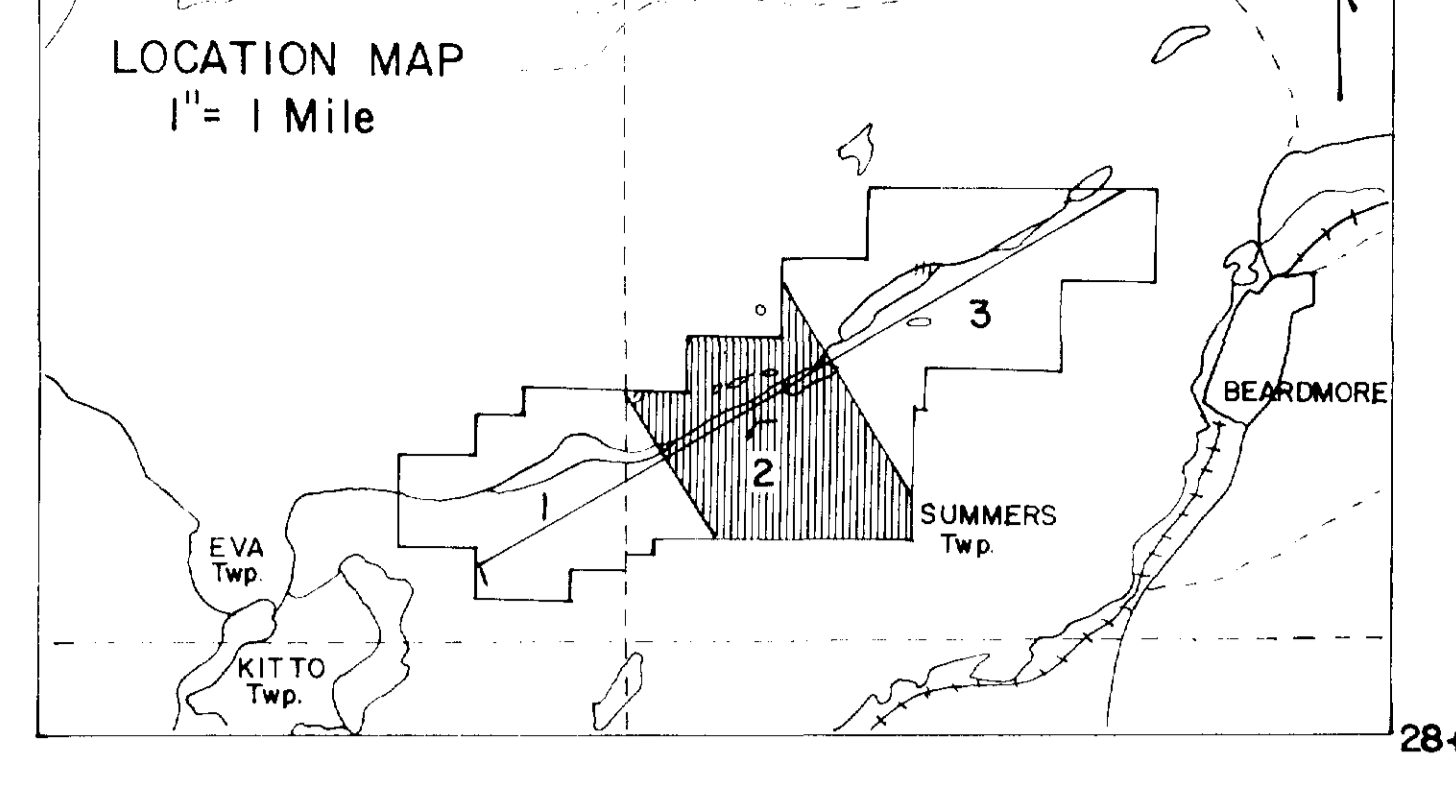
24213

G-80





L40W L32W L24W L16W L8W L0 L8E L16E L24E



**VLF SURVEY**

Dip Angle Profile Scale: 1" = 20'

Horizontal Field Strength: 1" = 100 nT

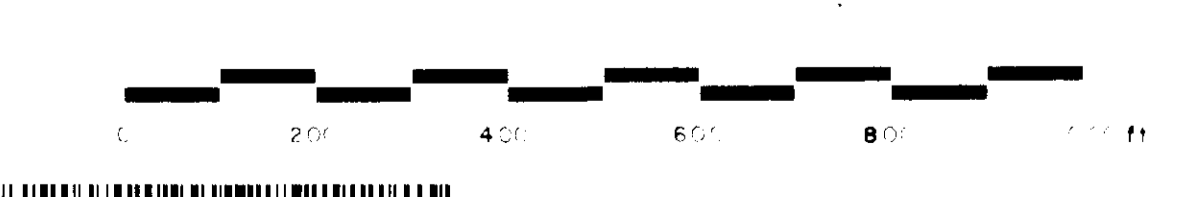
Field Strength Contour Interval: 10 nT

50 FS contour

10 FS contour

Depression

By Phoenix VLF-2 Direction Facing WEST  
 To SEATTLE, Wash. 18.6 kHz  
 Date of Survey: 1981  
 Operator: North West Geo. & G.F.M.C.  
 Plotted by: Date: 2 VLF  
 Total line miles: 16.8 Total readings: 874, 739  
 excl. B.L.S.



**LEGEND**

Dip angle profile scale: 1" = 20'

Plotting configuration: 1" = 100 nT

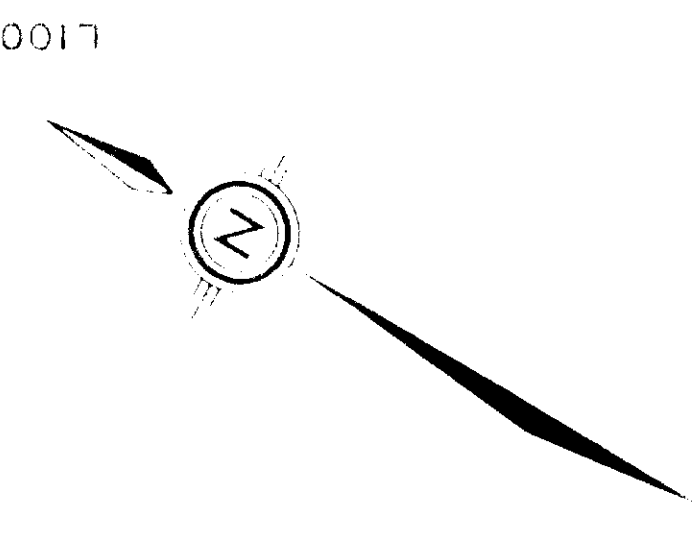
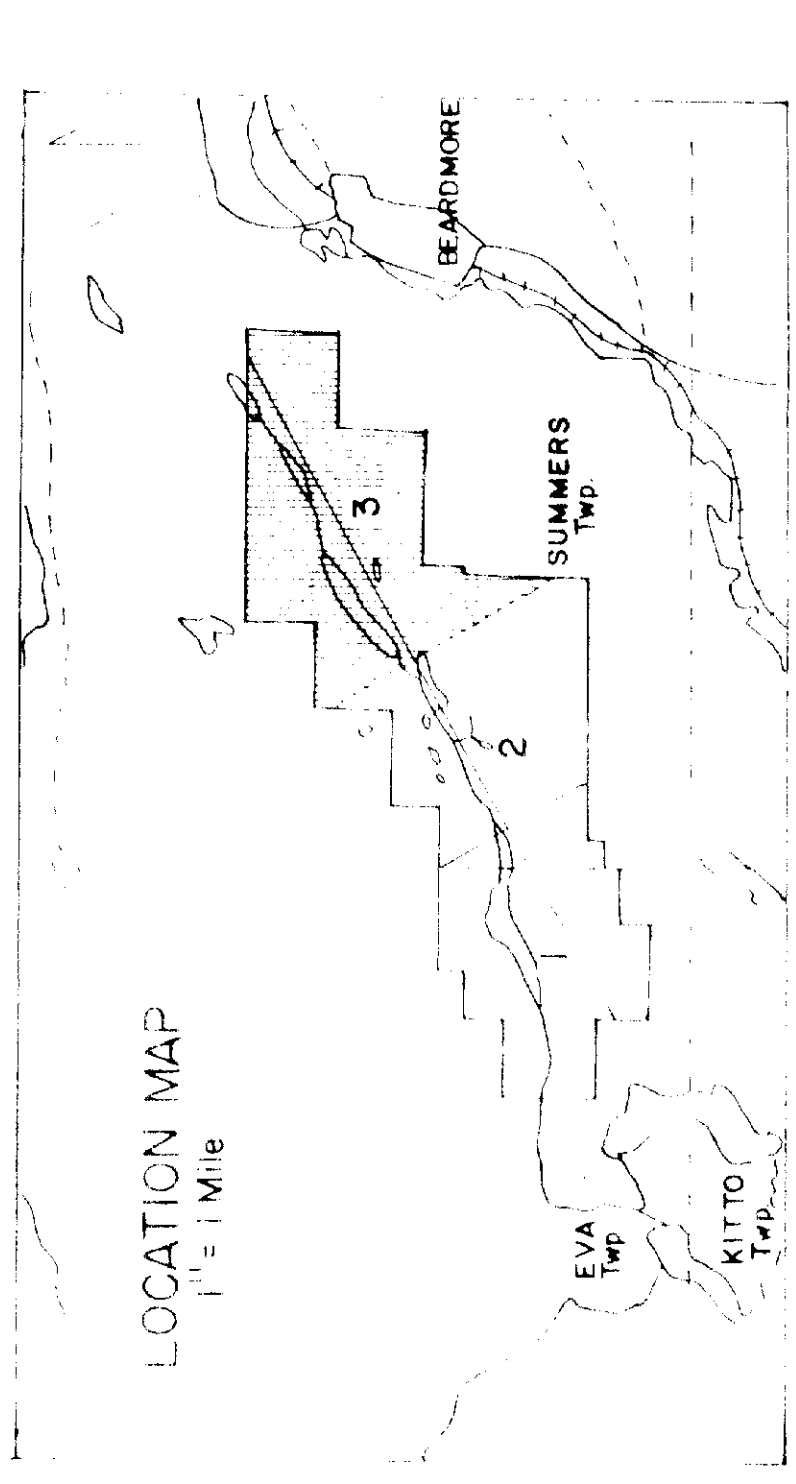
Field strength contour interval: 10 nT

50 FS contour

10 FS contour

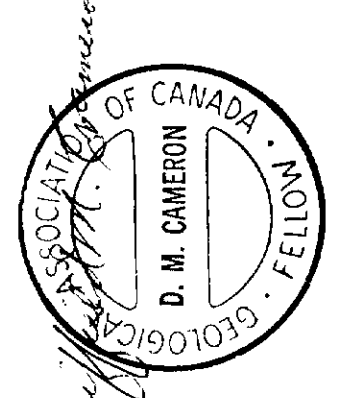
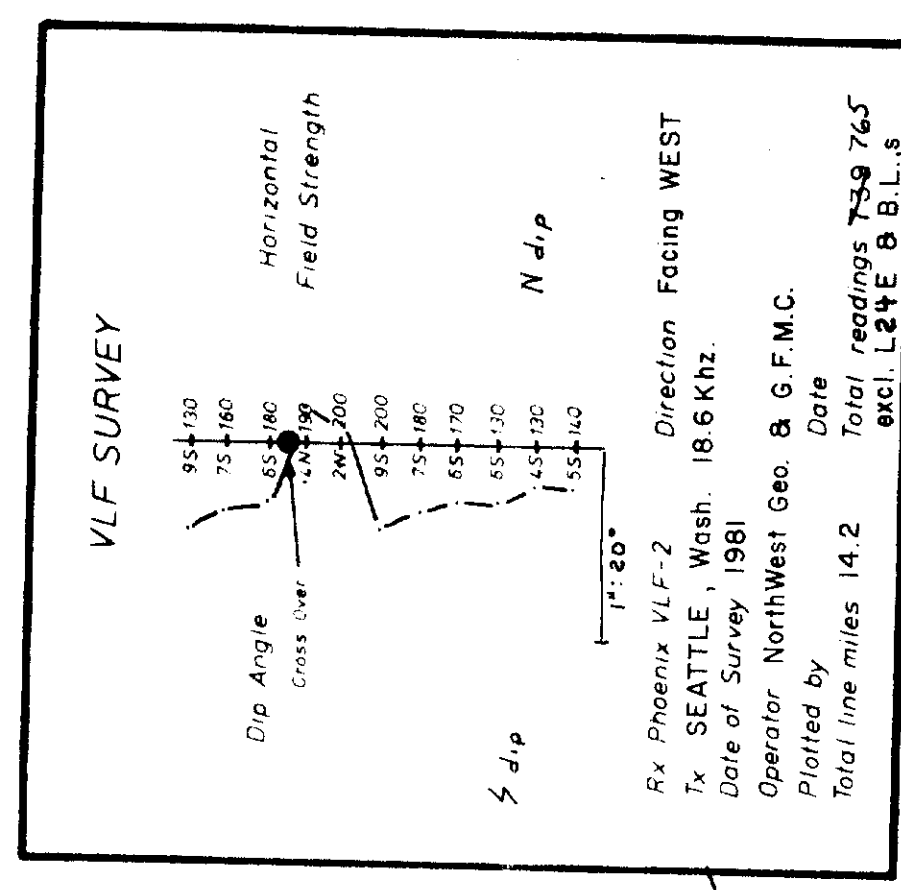
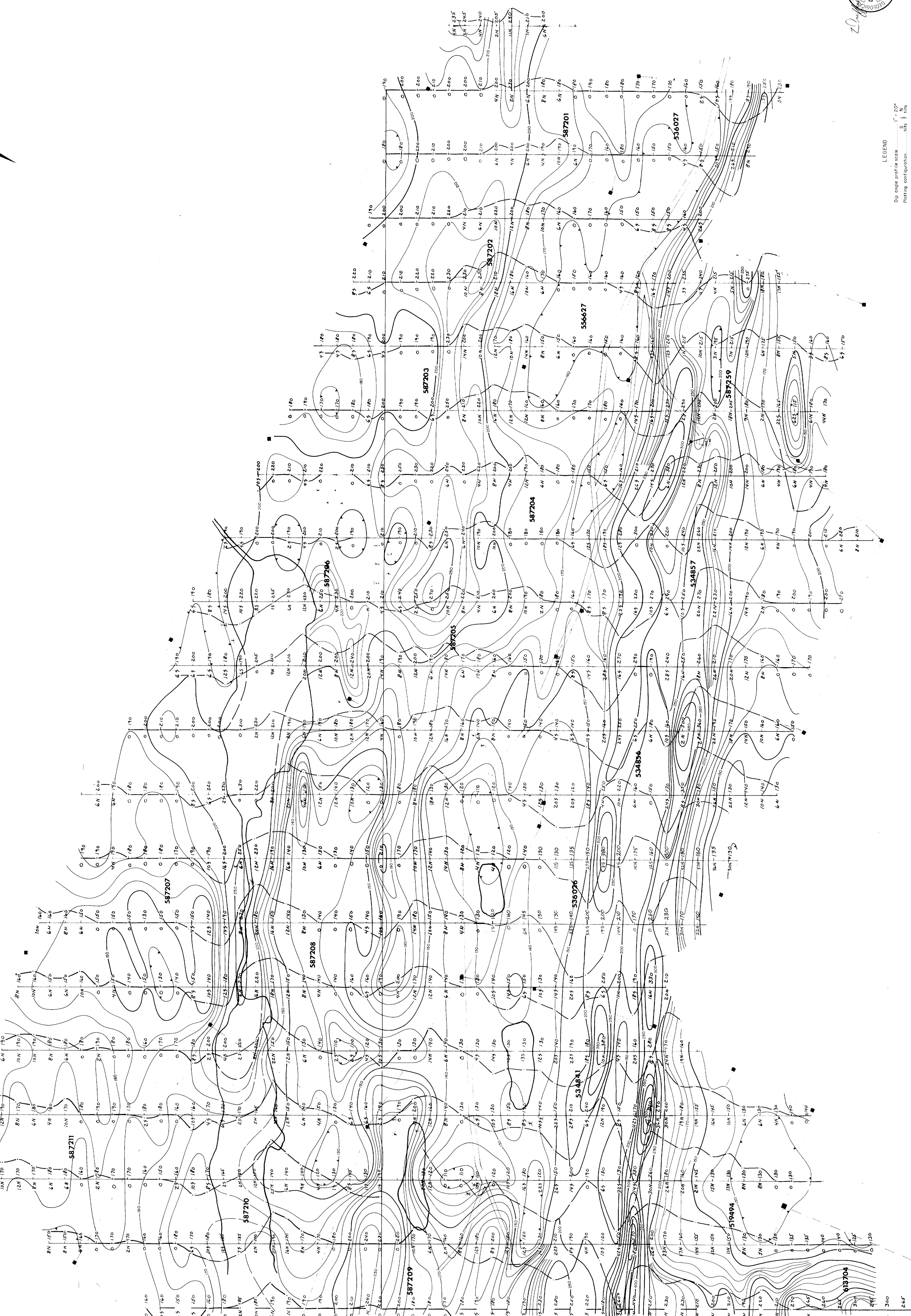
Depression

Revisions		GOLD FIELDS RESOURCES CANADA LTD.	
Month/Day/Year			
TERNOWSKY-RENTZ OPTION			
EVA & SUMMERS Twps.			
BEARDMORE, ONTARIO			
Scale: 1" = 200'	Map No.		
Date: AUGUST 1981	2 VLF		
Drawn by: RCM, UKB C.E.C.			
NTS 42E/12, 52H/9			



L100E L92E L84E L76E L68E L60E L52E L44E L36E L28E

20+00N 18+00N 12+00N 8+00N 4+00N BLO 4+00S 8+00S 12+00S 16+00S 20+00S 24+00S

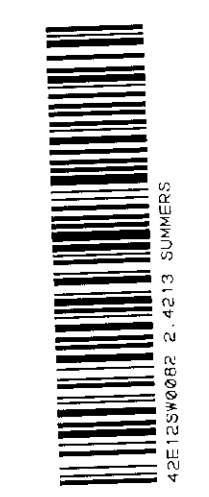


LEGEND  
 Dip angle profile scale 1" = 100'  
 Rising configuration hills  
 Field strength contour interval 10  
 50 F.S. contour  
 10 F.S. contour  
 Depression

Revisions	
Month/Day/Year	Description
03/27/2005	

Scale 1" = 200'  
 Date: AUGUST 1981  
 Drawn By: RCM, JKB, C.B.C.

GOLD FIELDS RESOURCES CANADA LTD.  
 TERNOWSKY - RENTZ OPTION  
 EVA B SUMMERS TMS  
 BEARDMORE, ONTARIO



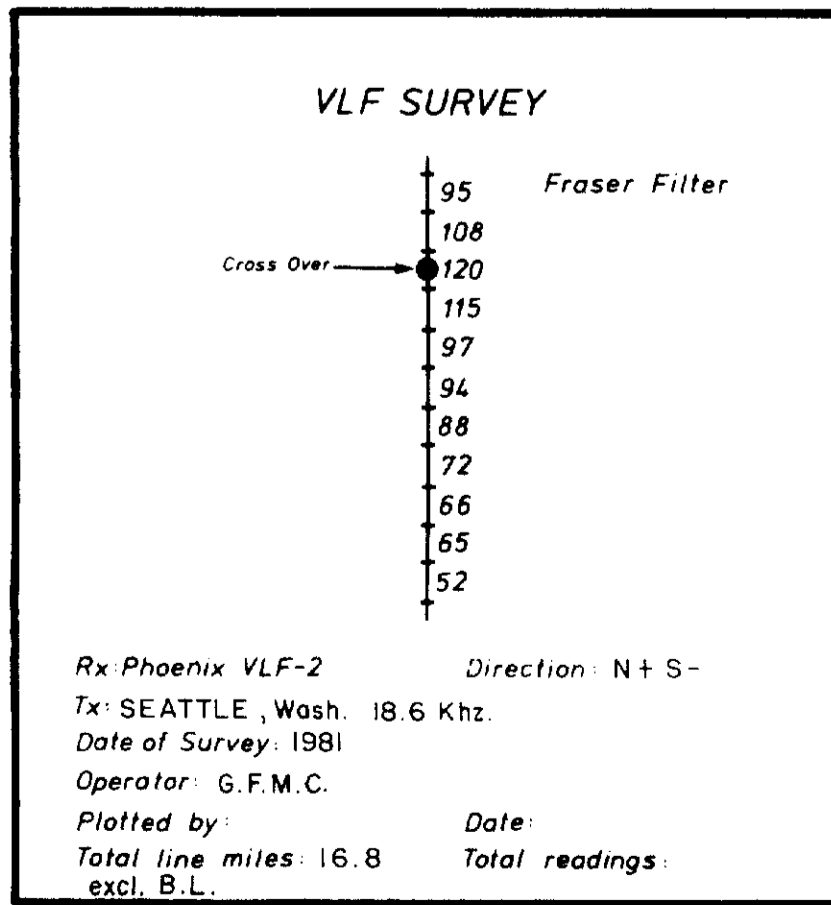
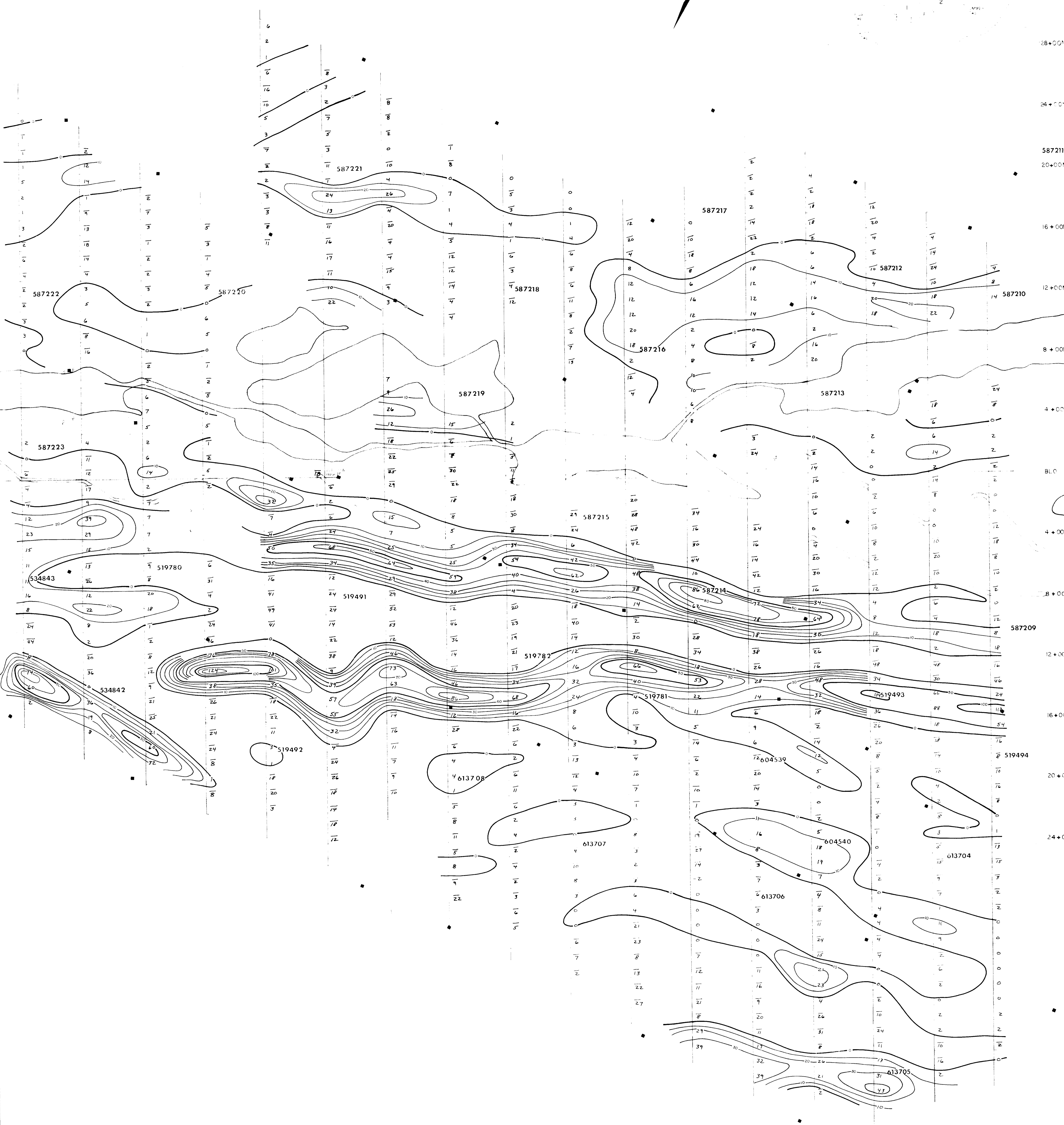
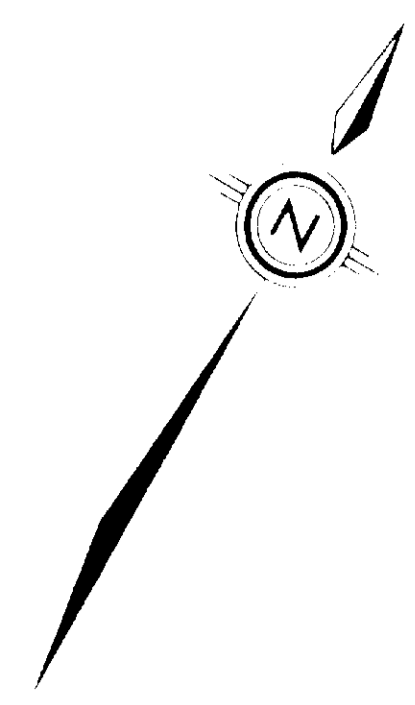
250





L4°W L3°W L2°W L1°W L0 L1°E L2°E L3°E L4°E

LOCATION MAP  
1" = 1 Mile



LEGEND  
Fraser filtered dip angle VLF EM contours  
+50 contour  
+10 contour

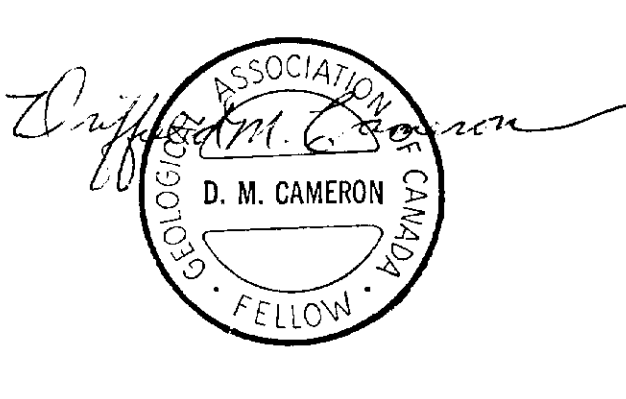
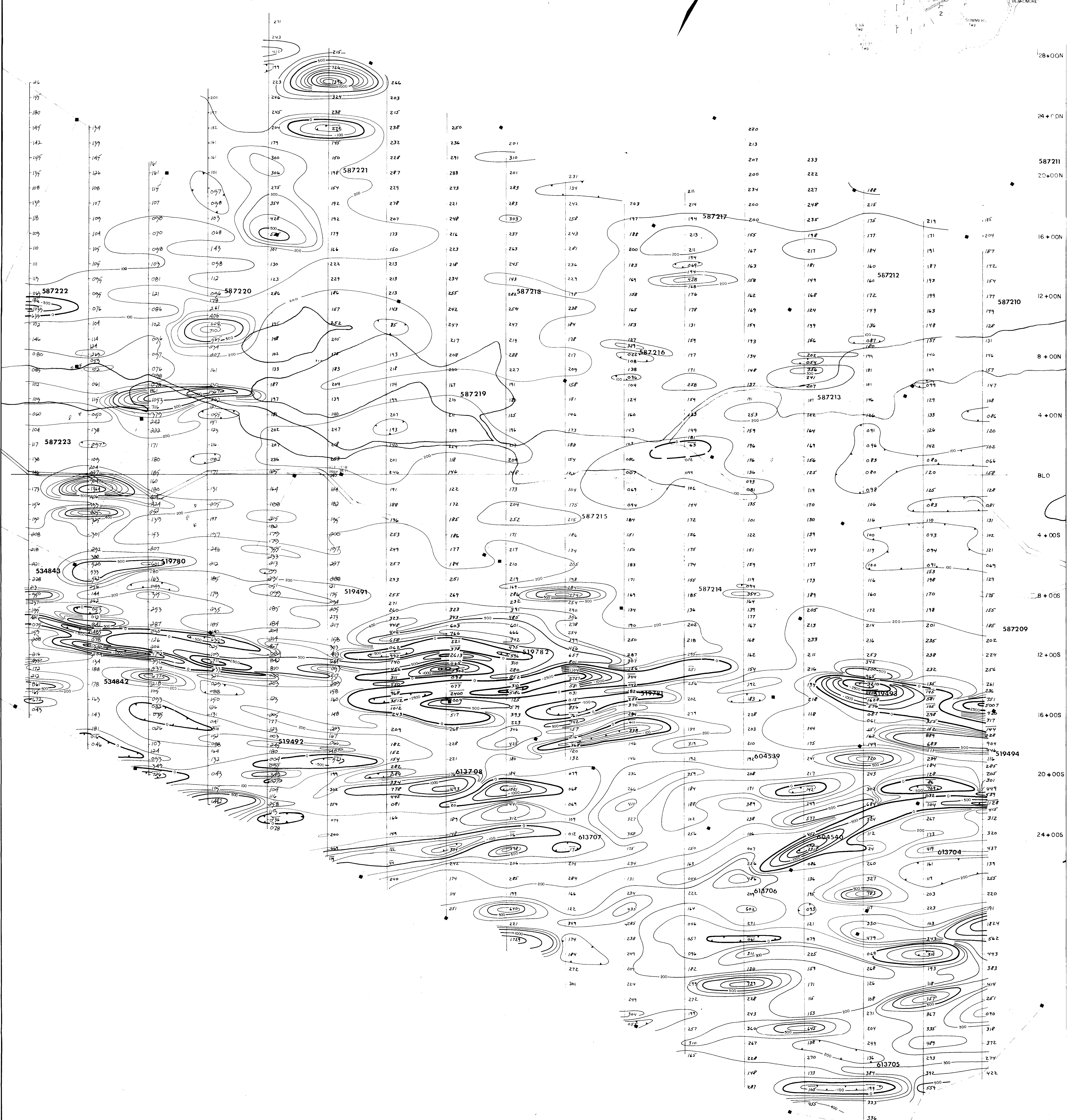
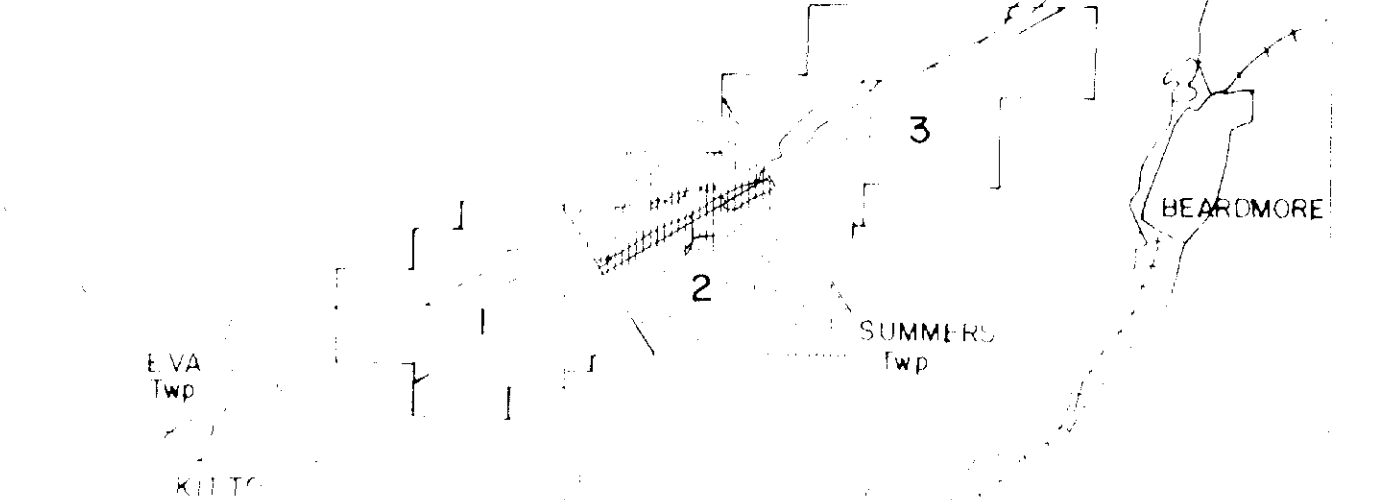
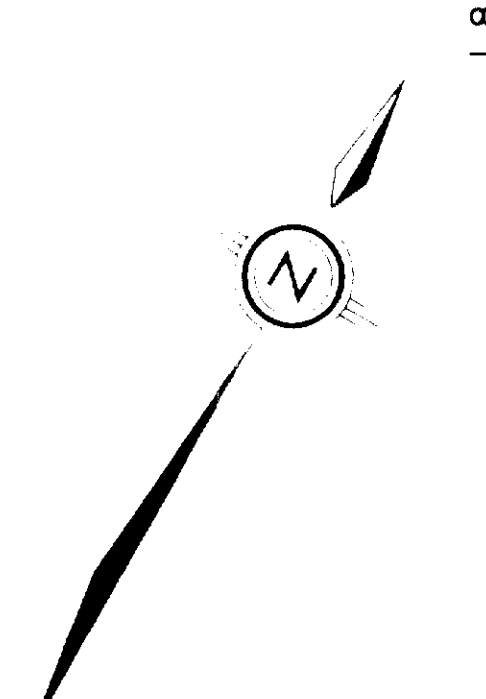
270  
Replanned  
Revisions GOLD FIELDS RESOURCES CANADA LTD.  
TERNOWSKY-RENTZ OPTION  
EVA & SUMMERS Twp.  
BEARDMORE, ONTARIO  
Scale 1"=200'  
AUGUST 1981  
RCM, JKB C.E.C. 2 FF  
42E/2, 52H/5  
24213



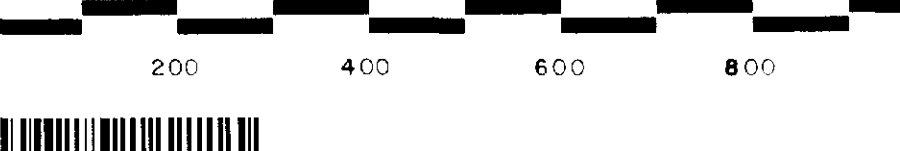


L40W L32W L24W L16W L8W L C L16E L24E L32E L40E

LOCATION MAP  
1" = 1 Mile

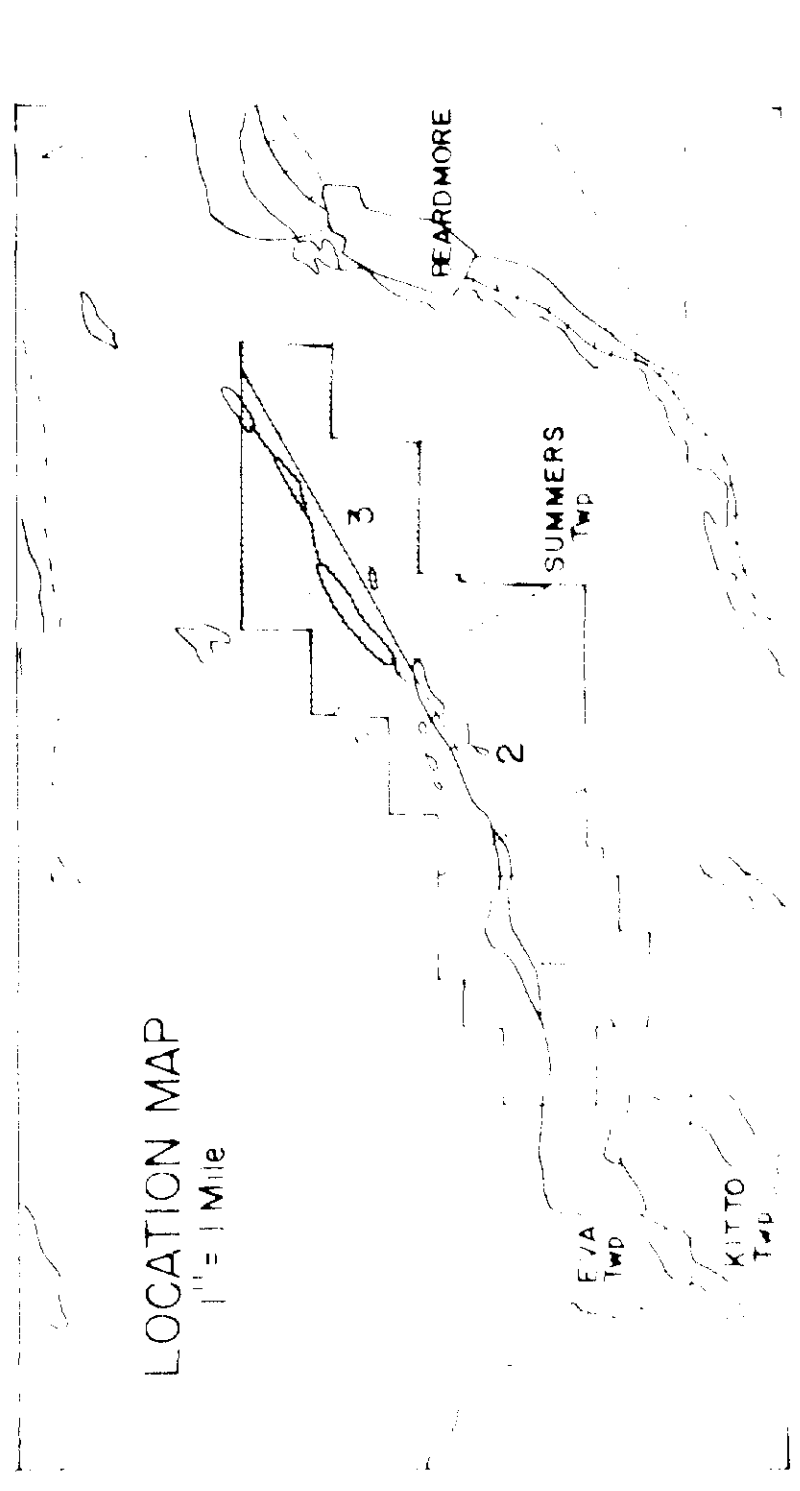


**MAGNETOMETER SURVEY**  
Type: Proton Precession  
Instrument: Geometric G86  
Field: 400,000 G  
Date of Survey: 1981  
Operator: North West Geophysics  
Plotted by: CEC, AW Date: Sep/81  
Mileage: 16.8 Total Rds: 1064 1100



**LEGEND**  
Contour interval: 100 gammas  
2500 gamma contour  
500 gamma contour  
100 gamma contour  
Depression

Revisions	
Month/Day/Year	3000
GOLD FIELDS RESOURCES CANADA LTD.	
TERNOWSKY-RENTZ OPTION EVA & SUMMERS Twp. BEARDMORE, ONTARIO	
Scale: 1"=200'	Map No: 2 MAG
Date: AUGUST 1981	Drawn By: RCM, JKB d.w.
NTS 42E/12, 52H/9	



LOCATION MAP  
1/4 Mile

HEADWATERS  
SUMNERS

20+00N  
16+00N  
12+00N  
8+00N  
4+00N  
BLO  
4+00S  
8+00S  
12+00S  
16+00S  
20+00S  
24+00S

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