42E12SW0082 2.4213 SUMMERS

2.4213

010
RECEIVED
OCT 21 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 parallelling bedding; no consistancy 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 occuring 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 occurences. Mineralization consists of arsenopyrite, pyrite and chalcopyrite and is present to some extent thoroughout, 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 occurence 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 Lacustrian 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.

W. P. Knox

W. Patrick Knox

Ontario

900

File _____

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) Geophysical: Magnetics, EM-VLF

Township or Area Summers and Eva Twps.

Claim Holder(s) Gold Fields Resources Canada Ltd.
#335-230 Lakeshore Rd. East, Mississauga, Ont. L5G 1G8

Survey Company Northwest Geophysics & Gold Fields

Author of Report W. Patrick Knox

Address of Author #335, 230 Lakeshore Rd. E. Mississauga

Covering Dates of Survey March 1981-Sept. 1981
(linecutting to office)

Total Miles of Line Cut 47.36 miles

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	20
--Magnetometer	40
--Radiometric	
--Other	
Geological	
Geochemical	

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

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

DATE: Oct. 20, 1981 SIGNATURE: Duffield M. Cameron
D.M. Cameron
Author of Report or Agent

Res. Geol. _____ Qualifications Hon. Geol.

Previous Surveys

File No.	Type	Date	Claim Holder

MINING CLAIMS TRAVERSED
List numerically

(prefix) (number)

see attached schedule

If space insufficient, attach list

TOTAL CLAIMS 65

OFFICE USE ONLY

837 (5/79)

GEOPHYSICAL TECHNICAL DATA

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

Number of Stations 2453 Number of Readings VLF 2453 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:

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	613704
534842	587206	587218	613705
534843	587207	587219	613706
534856	587208	587220	613707
534857	587209	587221	613708

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

EVA TWP. G-80 & G-116

McCOMBER TWP. G-166

Summers Lake

Archie Lake

Standingstone Lake

Empire L.

Pauline L.

Sandy Lake

Eva Lake

BEARDMORE AREA G-7

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. 1970, CHAP. 380, SEC. 63, SUBSEC 1.

LEGEND

PATENTED LAND	(P)
CROWN LAND SALE	C.S.
LEASES	(L)
LOCATED LAND	Loc.
LICENSE 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	C.

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 1199
- Ⓢ Gravel File 59506
- Ⓠ Quarry Permit

AREAS WITHDRAWN FROM DISPOSITION

S.R. – SURFACE RIGHTS M.R. – MINING RIGHTS

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

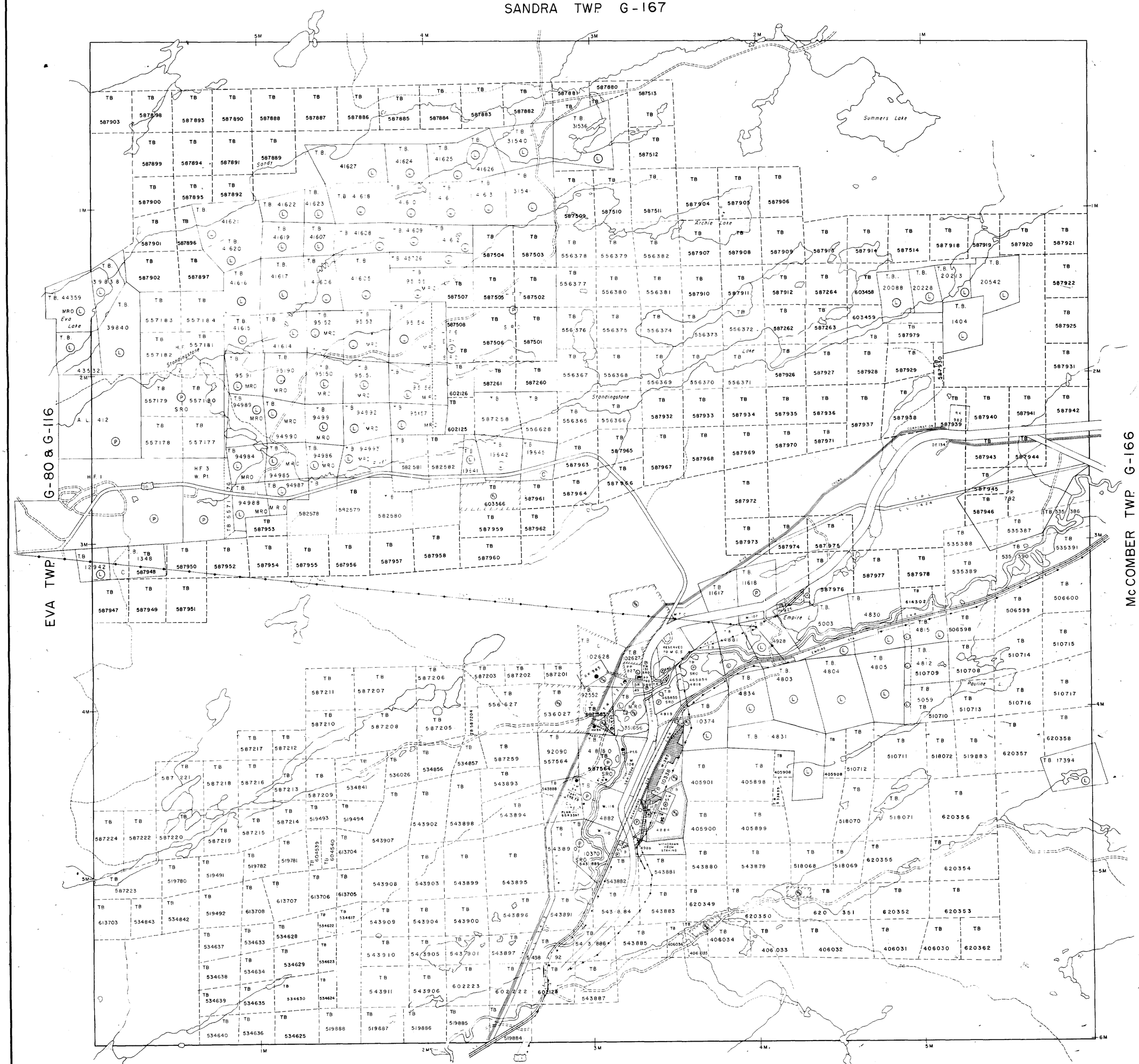
Ontario Ministry of Natural Resources — Land Management Branch

Date	Number
FEBRUARY 11th, 1981	G-165
2.4213	

42E12SW0882 2.4213 SUMMERS

200

SANDRA TWP. G-167



BEARDMORE AREA G-7

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	(R)
CANCELLED	⊗
SAND & GRAVEL	(S)

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	(P)
CROWN LAND SALE	C.S.
LEASES	(L)
LOCATED LAND	Loc.
LICENSE 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	C.

NOTES

Township of Summers lies within Beardmore Improvement District.

SAND AND GRAVEL

- (S1) M.T.C. Gravel Pit 916
- (S2) Gravel File 59506
- (S3) M.T.C. Gravel Pit 2 C-1
- (S4) M.T.C. Gravel Pit 647 File 59506
- (S5) M.T.C. Gravel Pit 1199
- (S6) Gravel File 59506

AREAS WITHDRAWN FROM DISPOSITION

S.R. – SURFACE RIGHTS M.R. – MINING RIGHTS

Description	Order No.	Date	Disposition	File
(R1)			Withdrawn from staking	File 59262
(R2)			Withdrawn from staking Sect. 42(R.S.O. '60) of the Mining Act	File 59409
(R3)			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

Ontario Ministry of Natural Resources — Land Management Branch

Date FEBRUARY 11th, 1981

Number **G-165**

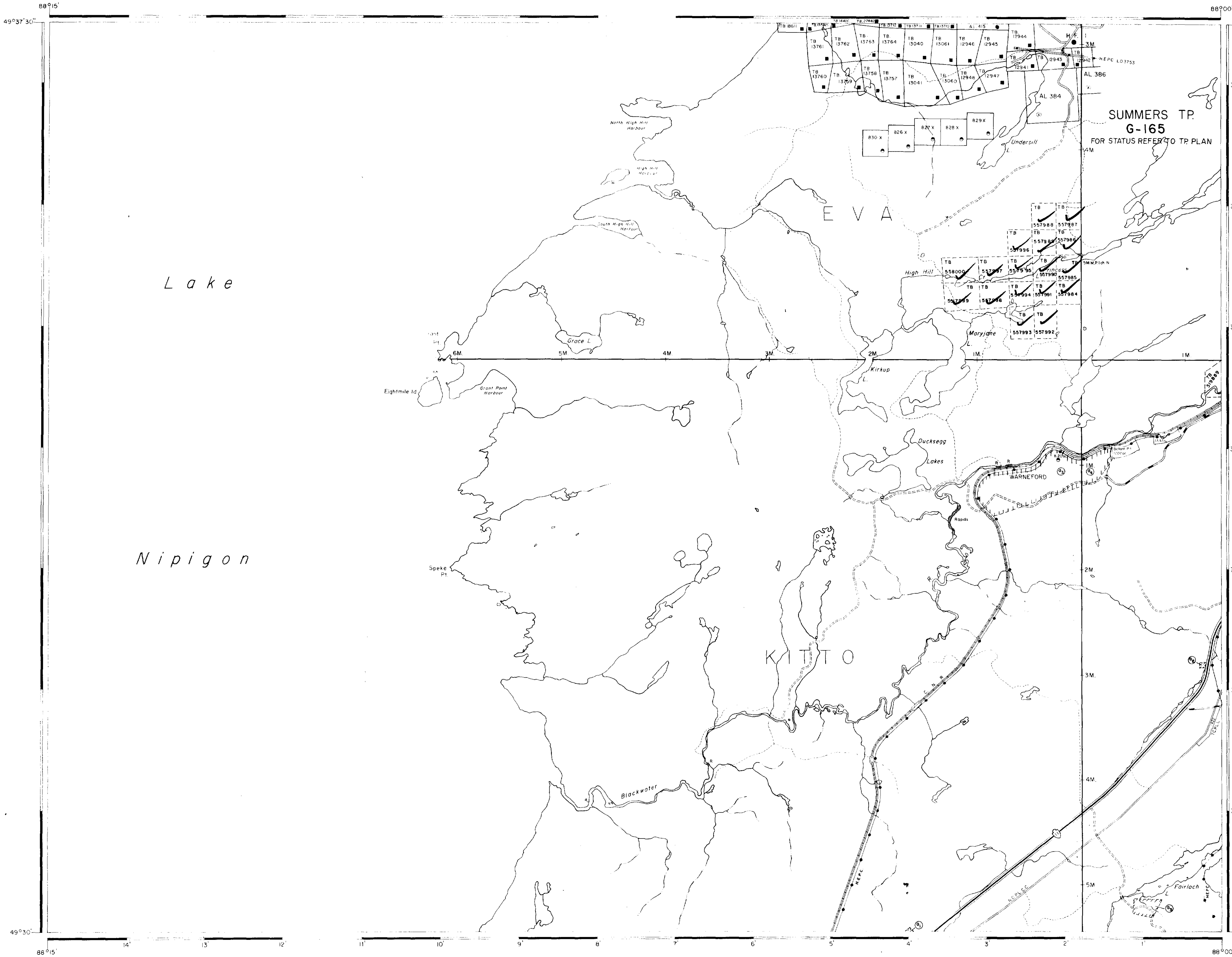
NOTES

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

(G1)	M.T.C. PIT No. 754	
(G2)	GRAVEL	FILE: 187827
(G3)	MTC PIT No. 2C-10	FILE: 153687
(G)	QUARRY PERMIT	

POPLAR POINT G-116



BEARDMORE G-7

PIJITAWABIK BAY & KILKENNY TWP. G-111

495881

220

42E12SE0082 2.4213 SUMMERS

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

LEGEND

HIGHWAY AND ROUTE No.
OTHER ROADS
TRAILS
SURVEYED LINES
TOWNSHIPS, BASE 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 STREAM
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	
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

Ontario — Ministry of Natural Resources — Land Management Branch

Date 17/FEB./1981

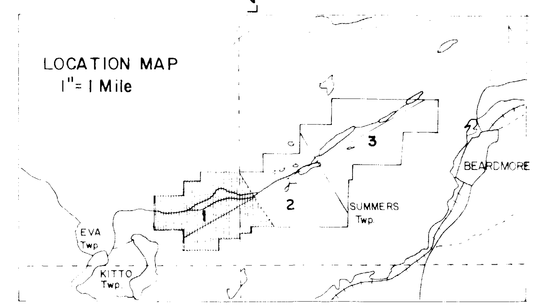
Number G-80

24213

L104W L96W L88W L80W L72W L64W L56W L48W

40+00N
36+00N
32+00N
28+00N
24+00N
20+00N
16+00N
12+00N
8+00N
4+00N
BLO
4+00S
8+00S

LOCATION MAP
1" = 1 Mile



PRINCESS LAKE

EVA Twp.
SUMMERS Twp.

VLF SURVEY

Dip Angle
Cross Over
Horizontal Field Strength

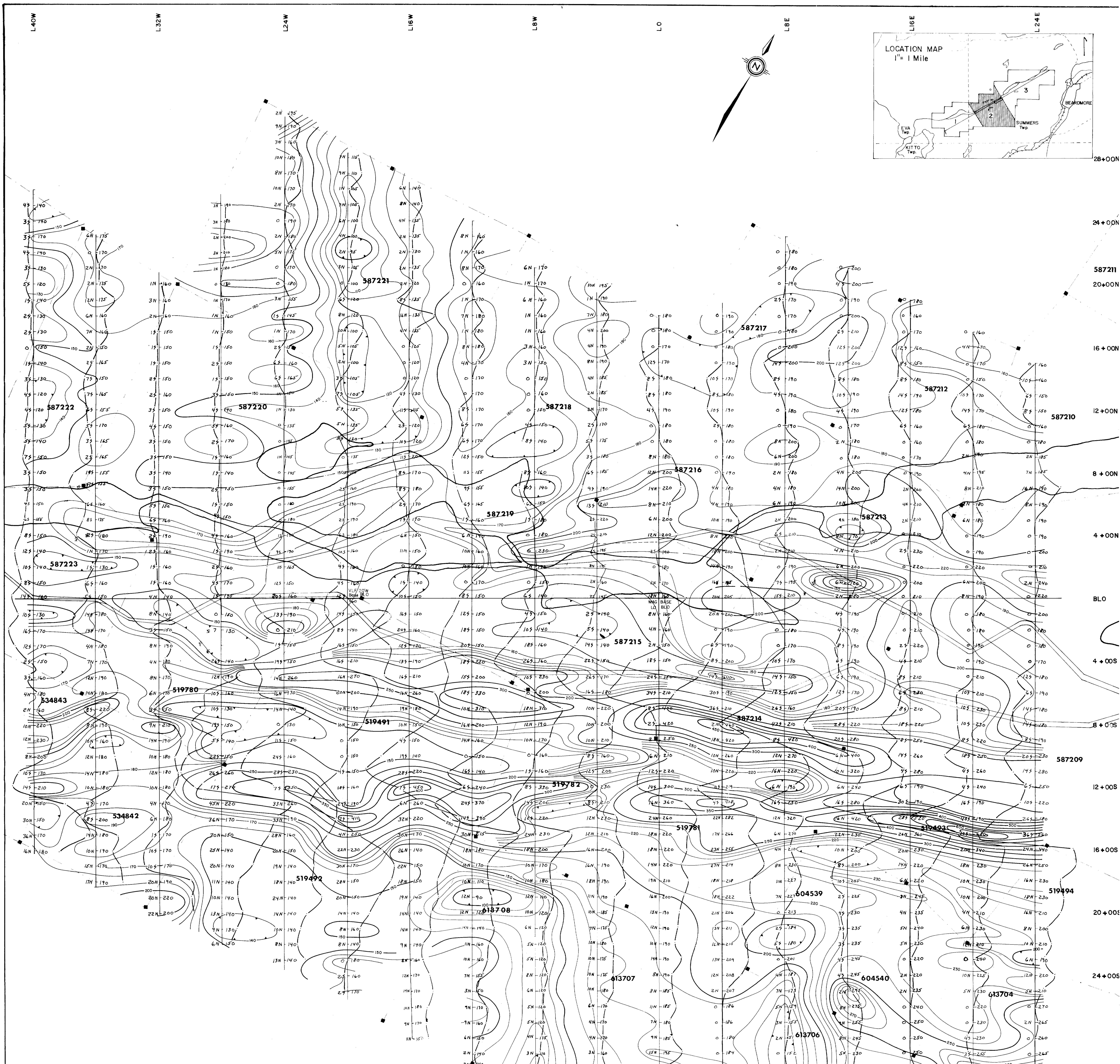
Rx Phoenix VLF-2 Direction Facing WEST
Tx SEATTLE, Wash. 18.6 Khz.
Date of Survey 1981
Operator North West Geo. & G.F.M.C.
Plotted by Date
Total line miles 16.2 Total readings 647 707 excl. L40W / B43

D. M. CAMERON
ASSOCIATION OF CANADA
GEOPHYSICIST
FELLOW

LEGEND

Dip angle profile scale ..... 1" = 20°
Plotting configuration ..... S hits N tits
Field strength contour interval 10
50 F.S. contour
10 F.S. contour
Depression

Revisions	GOLD FIELDS RESOURCES CANADA LTD.
Month/Day/Year	
03/20/82	TERNOWSKY-RENTZ OPTION
	EVA & SUMMERS Twps.
	BEARDMORE, ONTARIO
Scale 1"=200'	Map No 1 VLF
Date AUGUST 1981	
Drawn By RCM,JKB C.E.C.	
	N.T.S 42E/12.52H/9



D. M. CAMERON
GEOLOGICAL ASSOCIATION OF CANADA
FELLOW

VLF SURVEY

Dip Angle — Cross Over — Horizontal Field Strength

Rx Phoenix VLF-2 Direction Facing WEST
Tx SEATTLE, Wash. 18.6 Khz.
Date of Survey 1981
Operator North West Geo. & G.F.M.C.
Plotted by Date
Total line miles 16.8 Total readings ~~873~~ 934 excl. B.L.'s

0 200 400 600 800 1000 ft

42E12SW0082 2.4213 SUMMERS

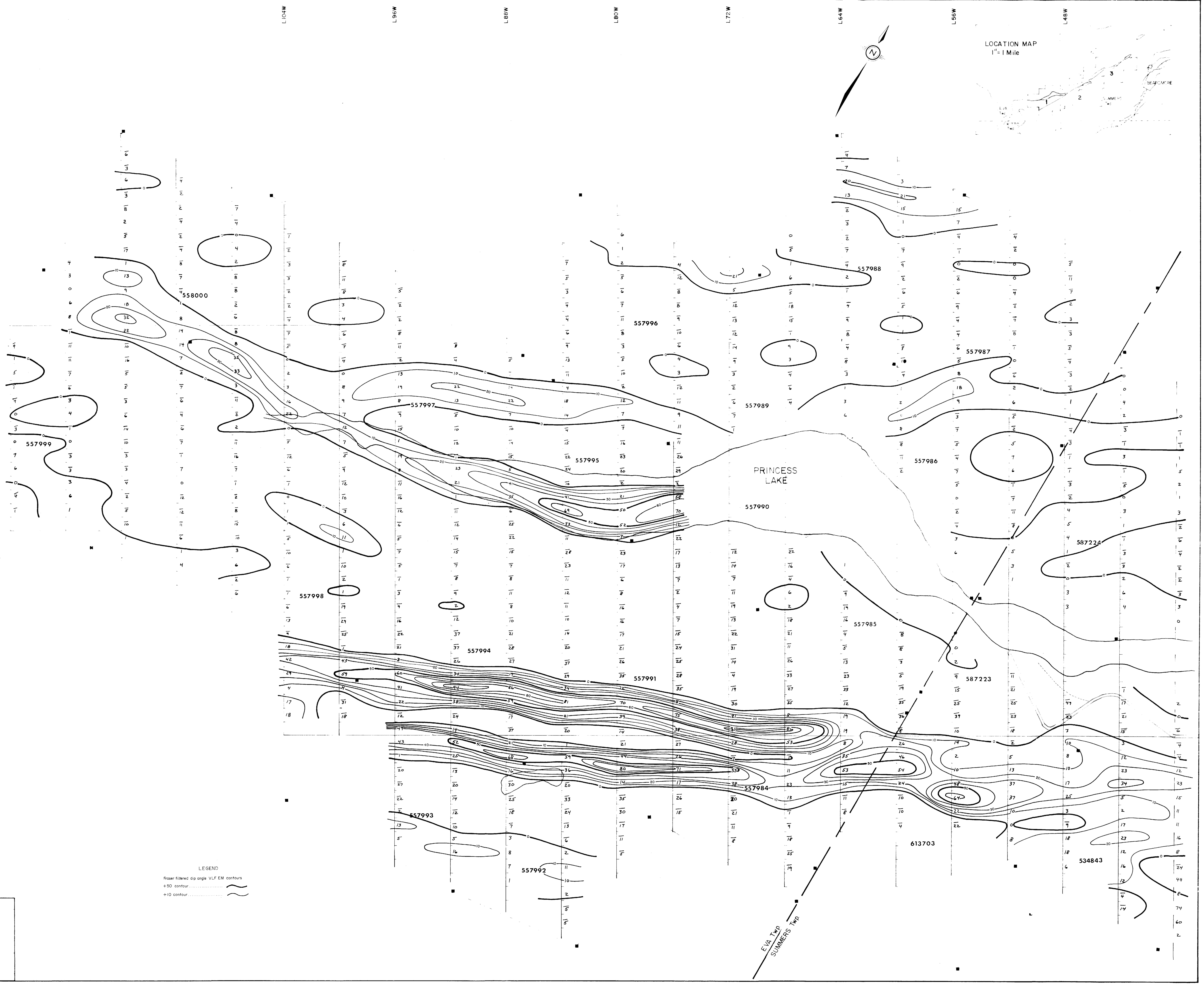
240

LEGEND

Dip angle profile scale .... 1" = 20°
Plotting configuration .... S tilts | N tilts
Field strength contour interval 10
50 F.S. contour
10 F.S. contour
Depression

Revisions	GOLD FIELDS RESOURCES CANADA LTD.
Month/Day/Year	TERNOWSKY-RENTZ OPTION EVA & SUMMERS Twps. BEARDMORE, ONTARIO
	Scale 1" = 200'
	Date AUGUST 1981 — Map No. 2 VLF
	Drawn By RCM, JKB C.e.C. — N.T.S. 42E/12, 52H/9


LOCATION MAP
1" = 1 Mile
BEARDMORE
SUMMERS Twp.
EVA Twp.
KITTO Twp.
L28E
L36E
L44E
L52E
L60E
L68E
L76E
L84E
L92E
L100E
20+00N
16+00N
12+00N
8+00N
4+00N
BLO
4+00S
8+00S
12+00S
16+00S
20+00S
24+00S
587211
587210
587209
587207
587208
587206
587205
587204
587203
587202
587201
534841
536026
534856
534857
587259
556627
536027
519494
613704
613705
LEGEND
Dip angle profile scale .... 1" = 20°
Plotting configuration .... S tilts | N tilts
Field strength contour interval 10
50 F.S. contour
10 F.S. contour
Depression
VLF SURVEY
Dip Angle
Cross Over
Horizontal Field Strength
S dip
N dip
1" : 20°
Rx Phoenix VLF-2
Direction Facing WEST
Tx SEATTLE, Wash. 18.6 Khz.
Date of Survey 1981
Operator NorthWest Geo. & G.F.M.C.
Plotted by
Date
Total line miles 14.2
Total readings ~~739~~ 765 excl. L24E & B.L.,s
GEOLOGICAL ASSOCIATION OF CANADA
D. M. CAMERON
FELLOW
0 200 400 600 800 1000ft.
W. Kral, Geophysicist
Revisions
Month/Day/Year
03/20/82
GOLD FIELDS RESOURCES CANADA LTD.
TERNOWSKY - RENTZ OPTION
EVA & SUMMERS Twps.
BEARDMORE, ONTARIO
Scale: 1"=200'
Date: AUGUST 1981
Drawn By: RCM, JKB C.e.C.
Map No.
3 VLF
N.T.S. 42E/12, 52H/9
250



VLF SURVEY

Fraser Filter

Cross Over → 120

95, 108, 120, 115, 97, 94, 88, 72, 66, 65, 52

260

Rx: Phoenix VLF-2 — Direction: N + S −
Tx: SEATTLE, Wash. 18.6 Khz.
Date of Survey: 1981
Operator: G.F.M.C.
Plotted by: — Date:
Total line miles: 16.2 excl. L40W & B.L. — Total readings:

W.P. Kemp, Geophysicist

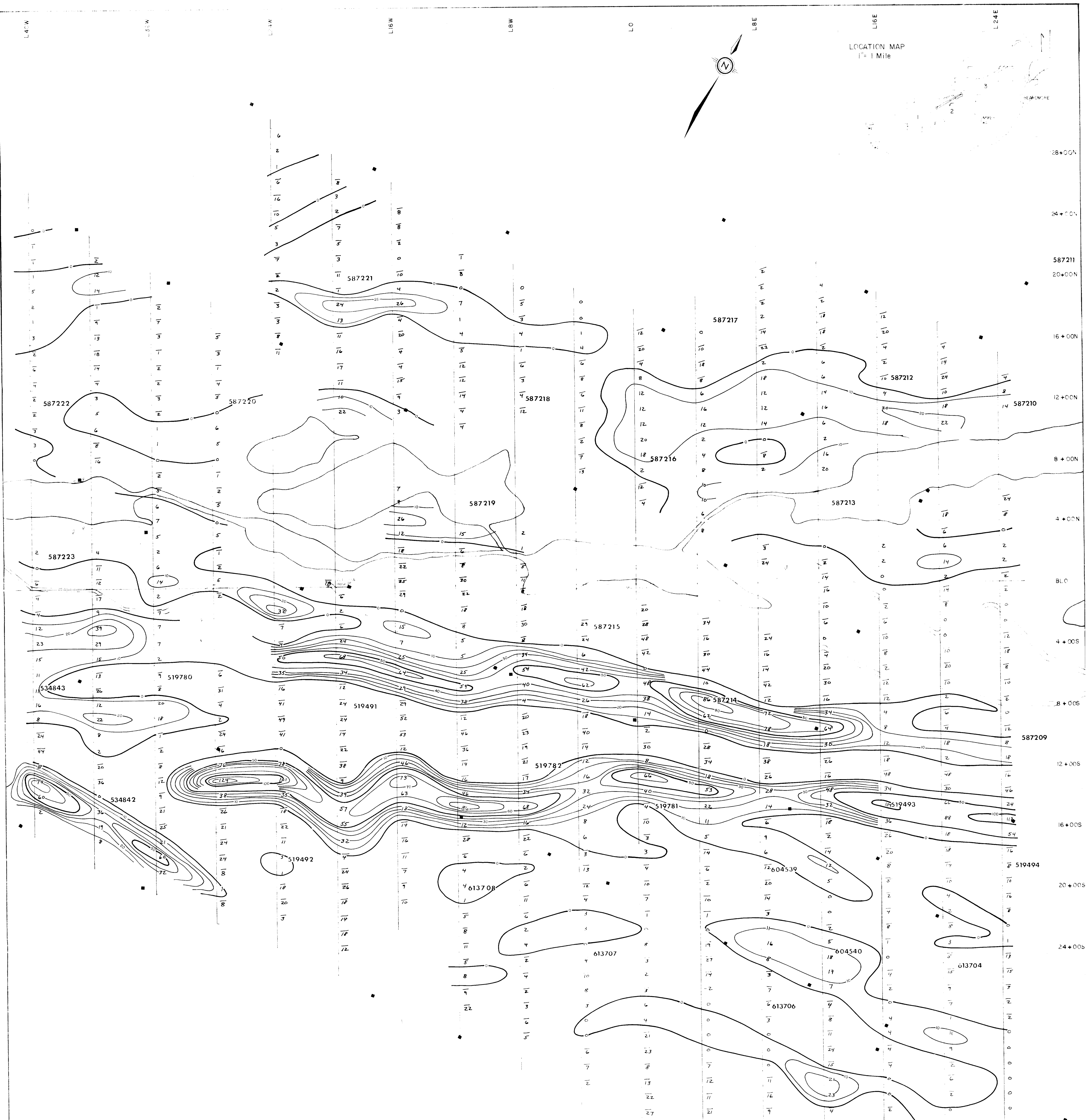
Revisions — Month Day Year

GOLD FIELDS RESOURCES CANADA LTD.

TERNOWSKY – RENTZ OPTION
EVA & SUMMERS Twps.
BEARDMORE, ONTARIO

Scale 1" = 200'
Date AUGUST 1981
Drawn By RCM, JKB C.e.C.
Map No. 1 F.F.
NTS 42E/12, 52H/9

42E12SW0082 2.4213 SUMMERS



VLF SURVEY

Fraser Filter

Cross Over → 120

95, 108, 120, 115, 97, 94, 88, 72, 66, 65, 52

Rx: Phoenix VLF-2 Direction: N+ S-
Tx: SEATTLE, Wash. 18.6 Khz.
Date of Survey: 1981
Operator: G.F.M.C.
Plotted by: Date:
Total line miles: 16.8 excl. B.L. Total readings:

LEGEND

Fraser filtered dip angle VLF EM contours

+50 contour ......

+10 contour ......

42E12SE0082 2.4213 SUMMERS

270 Geophysical

GOLD FIELDS RESOURCES CANADA LTD.

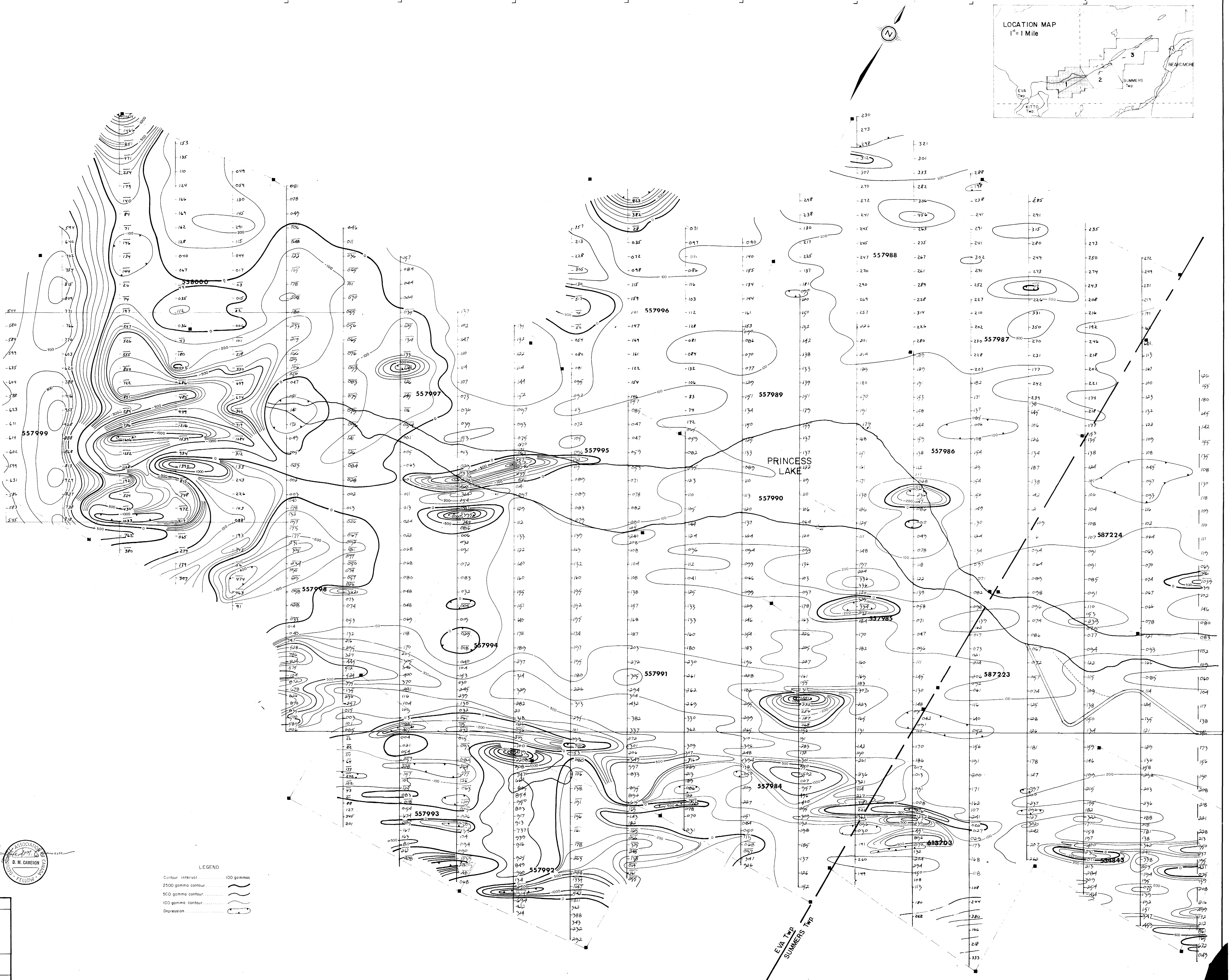
Revisions

TERNOWSKY-RENTZ OPTION
EVA & SUMMERS Twps.
BEARDMORE, ONTARIO

1" = 200'
AUGUST 1981
RCM, JKB C.e.C.
2 F.F.
42E/12, 52H/9
2.4213


LOCATION MAP
1" = 1 Mile
BEARDMORE
SUMMERS
EVA Twp
KITTO Twp
L28E
L36E
L44E
L52E
L60E
L68E
L76E
L84E
L92E
L100E
20+00N
16+00N
12+00N
8+00N
4+00N
B.L.
4+00S
8+00S
12+00S
16+00S
20+00S
24+00S
587211
587210
587207
587208
587209
587206
587205
587204
587203
587202
587201
536026
534841
534856
534857
587259
556627
536027
519494
613704
613705
LEGEND
Fraser filtered dip angle VLF EM contours
+50 contour
+10 contour
VLF SURVEY
Fraser Filter
Cross Over
95
108
120
115
97
94
88
72
66
65
52
Rx: Phoenix VLF-2
Direction:
Tx: SEATTLE, Wash. 18.6 Khz.
Date of Survey: 1981
Operator: G.F.M.C.
Plotted by:
Date:
Total line miles: 14.2
excl. L24E & B.L.'s
Total readings:
Geophysicist
Revisions
Month Day Year
GOLD FIELDS RESOURCES CANADA LTD.
TERNOWSKY - RENTZ OPTION
EVA & SUMMERS Twps.
BEARDMORE, ONTARIO
Scale 1" = 200'
Date AUGUST 1981
Drawn By RCM, JKB C.B.C.
Map No.
3 F.F.
NTS 42E/12, 52H/9

280



MAGNETOMETER SURVEY

Type: Proton Precession
Instrument: Geometrics G 816
Field: Add 60,000γ
Date of Survey: 1981
Operator: North West Geophysics
Plotted by: CEC, AW **Date**: Sept/81
Mileage: 16.2 excluding L40 W & B.L. Total Rdgs ~~1025~~ 1055

W P Kusa, Geophysicist

D. M. CAMERON
GEOLOGICAL ASSOCIATION OF CANADA · FELLOW ·

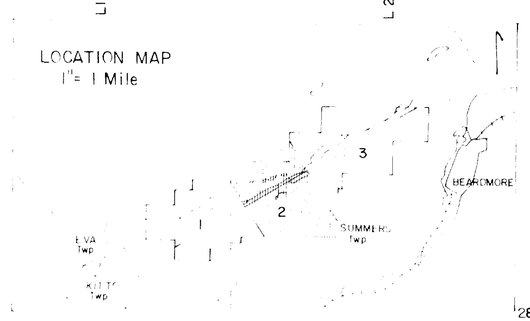
42E12SW0082 2.4213 SUMMERS

290

0 200 400 600 800 1000 ft.

Revisions	GOLD FIELDS RESOURCES CANADA LTD.	
Month/Day/Year	TERNOWSKY-RENTZ OPTION EVA & SUMMERS Twps. BEARDMORE, ONTARIO	
03/20/82		
	Scale: 1" = 200'	Map No.
	Date: AUGUST 1981	1 MAG
	Drawn By: RCM, JKB G.W.	
		N.T.S. 42E/12, 52H/9

L40W L32W L24W L16W L8W LO L8E L16E L24E



28+00N
24+00N
20+00N
16+00N
12+00N
8+00N
4+00N
BLO
4+00S
8+00S
12+00S
16+00S
20+00S
24+00S

587221 587220 587219 587218 587217 587216 587215 587214 587213 587212 587211 587210 587209
587223 587222 534843 534842 519780 519491 519492 519782 519781 519494 519493 613708 613707 613706 613705 604540 604539

LEGEND

Contour interval ..... 100 gammas
2500 gamma contour .....
500 gamma contour .....
100 gamma contour .....
Depression .....

MAGNETOMETER SURVEY

Type: Proton Precession
Instrument: Geometric G816
Field: Add 60,000γ
Date of Survey: 1981
Operator: North West Geophysics
Plotted by: CEC, AW **Date**: Sept/81
Mileage 16.8 Total Rdgs ~~1064~~ 1100

0 200 400 600 800 1000 ft

D. M. CAMERON
ASSOCIATION OF CANADA
GEOLOGIST
FELLOW

Geophysicist

Revisions	GOLD FIELDS RESOURCES CANADA LTD.	
Month/Day/Year		
03/20/82	TERNOWSKY-RENTZ OPTION EVA & SUMMERS Twps. BEARDMORE, ONTARIO	
	Scale: 1"=200'	Map No. 2 MAG
	Date: AUGUST 1981	
	Drawn By: RCM, JKB C.W.	NTS 42E/12, 52H/9


LOCATION MAP
1" = 1 Mile
BEARDMORE
SUMMERS Twp.
EVA Twp.
KITTO Twp.
L28E
L36E
L44E
L52E
L60E
L68E
L76E
L84E
L92E
L100E
20+00N
16+00N
12+00N
8+00N
4+00N
BL0
4+00S
8+00S
12+00S
16+00S
20+00S
24+00S
587211
587210
587207
587208
587209
587206
587205
587203
587202
587201
587204
556627
536027
536026
534841
534856
534857
587259
519494
613704
613705
LEGEND
Contour interval ..... 100 gammas
2500 gamma contour
500 gamma contour
100 gamma contour
Depression
MAGNETOMETER SURVEY
Type: Proton Precession
Instrument: Geometrics G 816
Field: Add 60,000γ
Date of Survey: 1981
Operator: North West Geophysics
Plotted by: CEC, AW
Date: Sept/81
Mileage 14.2 excluding L24E & B.L. Total Rdgs 815 842
GEOLOGICAL ASSOCIATION OF CANADA
D. M. CAMERON
FELLOW
0
200
400
600
800
1000ft.
Geophysicist
Revisions
Month/Day/Year
03/20/82
GOLD FIELDS RESOURCES CANADA LTD.
TERNOWSKY – RENTZ OPTION
EVA & SUMMERS Twps.
BEARDMORE, ONTARIO
Scale: 1" = 200'
Date: AUGUST 1981
Drawn By: RCM, JKB G.W.
Map No.
3 MAG
N.T.S. 42E/12, 52H/9