



42A04NW0031 2.4891 SEWELL

010

REPORT ON  
GROUND VLF AND GROUND MAGNETICS

SEWELL  
FOLEYET, ONTARIO

BY  
JOSE LUIS SEARA

GOLD FIELDS MINING CORPORATION  
MISSISSAUGA, ONTARIO.

**RECEIVED**

**JUN 25 1982**

**MINING LANDS SECTION**

REPORT ON  
GROUND VLF AND GROUND MAGNETICS

Sewell  
Foleyet, Ontario

By  
Jose Luis Seara

1. INTRODUCTION:

In March 1982 line cutting and ground geophysics were carried out by Gold Fields Canadian Mining Ltd. A total of 22.7 km of grid were cut and chained. Geophysical follow up consisted of 20.8 km of ground VLF data acquired on 20 lines, with station intervals of 25 m. Ground magnetics consisted of 22.7 km of magnetics data required on 20 lines at a station interval of 25m.

2. SURVEY LOCATION:

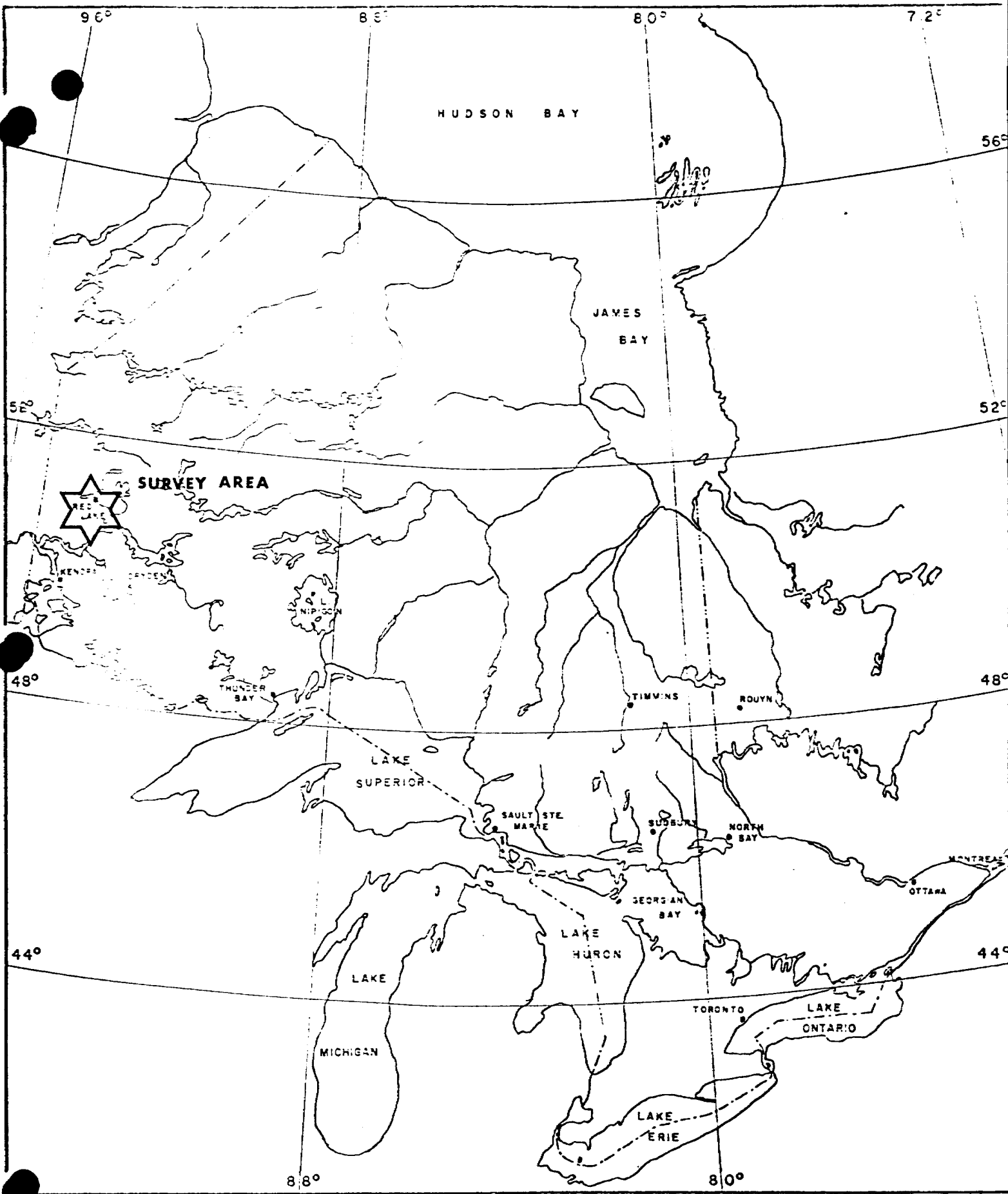
The survey location is located in the Foleyet region (Northeastern Ontario), about 60 miles from Timmins on Highway 101. The Kenogaming Forrestry Road is approx. 60 km from Foleyet. The dirt road is 6 km from Hwy. 101 on this road. The grid is 2 km down on this road.

3. DESCRIPTION OF GRID:

Main base line 0+00 was turned off Azimuth of 320 degrees from the number one (1) post of Claim KRL 393710. Chainage estimated as 11+00E. From this point on the base line 0+00, lines were turned off every 125 meters and chained at 25 meter intervals.

4. GEOLOGY:

The Sewell Township claim group is underlain by a NW-SE trending sequence of pillowed mafic volcanics and interbedded sediments. Locally the volcanics are sheared, extensively carbonatd and silicified and intruded by quartz porphyry. A north-west trending fault crosses the property south-west of Sewell Lake.



Outline Map of ONTARIO

Scale : 1" ≈ 125 Miles

LOCATION MAP

Figure 1

## 5. TOPOGRAPHY:

Flat partially forested area with scattered swamps throughout the grid.

## 6. SURVEY PERSONNEL:

Magnetics: Gayle Fox

VLF: Bryan Strapp, Dave Gliddon

## 7. GROUND MAGNETICS:

The measurement of earth's total field were taken with the EDA total field magnetometer Model PPM-300 providing a 0.1nT sensitivity. Diurnal change was monitored by a total field base station EDA Model PPM-400.

## 8. METHOD AND PROCEDURE:

## 8.1 Ground VLF:

The VLF method uses powerful radio transmitters that induce electric currents in conductive bodies. The direction of the flux of lines is horizontal and perpendicular to the VLF transmitter.

Since the geology of Otter Lake South strikes NW-SE, the Cutler, Maine station (NAA, 17.8 KHz) was selected to obtain the most adequate coupling.

Dip-angle and field strength readings were taken every 25 m., making a total of 834 readings.

## 8.2 Ground Magnetics:

Measurement of the total field were taken every 25 meters. All magnetometers used in the survey are programmable, automatically recording field readings, time of readings, line and station co-ordinates, a qualitative measurement of the gradient imposed on the sensor and signal strength or orientation of the sensor. Thus, the diurnal corrections are accomplished automatically by cable connecting each field unit in turn

to the base station recorder and activating a pre-programmed correction program.

The base station recorder will interpolate and apply the diurnal correction, subtract the reference field and pass the survey data to a DCU-400 printer

Base Station was located on L0 at 0+25N. Base station interval was 10 seconds, with a value of 59,070 gammas. (A total of 908 field stations were recorded).

## 9. DATA PRESENTATION:

### 9.1 Ground Magnetics:

Total field is presented on map MAG 1. (Scale 1:2500).

### 9.2 Ground VLF:

Two methods of presentation are utilized:

a) Profiles plots of true dip angle in degrees (1 cm = 10) together with the field strength in contour form. Presented on map VLF-1.

b) A contour plan section of the convolution of the Fraser Filter and the dip angle is presented in Map FF-1.

### 9.3 Interpretation overlay map INT-1.

## 10. RESULTS AND INTERPRETATION:

On the basis of the magnetic background several domains have been discriminated, see map number 4. Mainly mafic volcanics, felsic (or intermediate volcanics) and an intrusive diorite.

Three major faults have been depicted from the magnetics and the V.L.F. data. Some of the VLF anomalies coincide with the boundaries of the different domains. The other VLF lineations have been marked as shear zones.

In the northern mafic domain a very thin iron formation has been interpreted. Its horizon has been marked on the overlay. (Map Number 4). Potentially attractive areas for gold deposition are those areas in which the iron formation is traverse by a fault.

In the southern domain some showings of iron formations have been marked but they are less attractive.

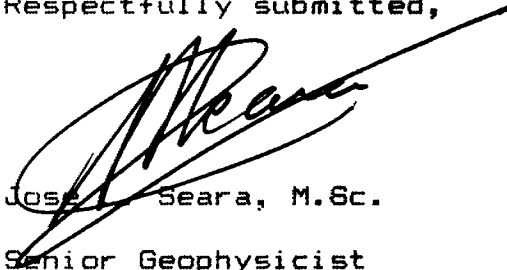
11. CONCLUSIONS AND RECOMMENDATIONS:

The magnetics and VLF survey have been able to delineate some clues about the geology of these claims.

Three major faults were located and its iterations with the iron formations are potentially attractive for gold.

It is recommended to carry out some detailed I.P. surveys over some of the areas mentioned above if soil geochemistry gives positive results.

Respectfully submitted,



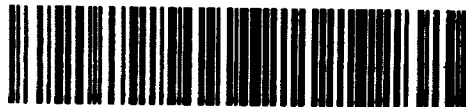
Jose L. Seara, M.Sc.

Senior Geophysicist

GOLD FIELDS Mining Corporation



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



42A04NW0031 2.4891 SEWELL

900

115  
K-37

*Sevell Trwp #185*

The Mining Act, R.S.O. 1990, c. 28

Type of Survey(s) Magnetometer and Electromagnetic - VLF	Township or Area Sewell Township, 42A/4NW
Claim Holder(s) Gold Fields Resources Canada Limited	Prospector's Licence No. T-1028
Survey Company Gold Fields Resources Canada	Survey Dates (Incutting to office) March 1982
	Total Miles of line Cut 22.7 Km.
Name and Address of Author (of Geo-Technical report) #335-230 Lakeshore Road East, Mississauga, Ontario, L5G 1G8	

Special Provisions Credits Requested:

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

Mining Claims Traversed (List in numerical sequence)

Prefix	Mining Claim Number	Expend. Days Cr.	Prefix	Mining Claim Number	Expend. Days Cr.
P	393710				
	393711				
	393712				
	591427				
	591428				
	591429				
	613349				
	613350				
	613351				
	613352				
	627001				
	627002				
	627003				

RECEIVED  
MAY 31 1982  
MINING CLAIMS SECTION

Man Days

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

Airborne Credits

Note: Special provisions credits do not apply to Airborne Surveys.		Days per Claim
	Electromagnetic	
	Magnetometer	
	Radiometric	

Expenditures (excludes power stripping) DIVISION

Type of Work Performed

Performed on Claim(s)

AM 230, 10, 11, 12, 13, 4, 50

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.

Report Completed

Date of Report: May 19 1982

Recorded Holder or Agent (Signature): William R. Troup

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  
W. Troup

#335-230 Lakeshore Road E. Mississauga L5G 1G8

For Office Use Only

Total Days Cr. Recorded: 780

Date Recorded: May 20/82

Date Approved as Recorded: [Signature]

Total number of mining claims covered by this report of work: 13

Regional Branch Director: [Signature]

Date Certified: May 17/82

Certified by (Signature): William R. Troup



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) Magnetometer & Electromagnetic - VLF (Blue Monday)  
Township or Area Sewell Township  
Claim Holder(s) Gold Fields Resources Canada Ltd.  
#335-230 Lakeshore Rd. East, Mississauga, L5G 1G8  
Survey Company Gold Fields Resources  
Author of Report Jose L. Seara  
Address of Author #335-230 Lakeshore Rd. East  
Covering Dates of Survey April 7 - June 1982  
(linecutting to office)  
Total Miles of Line Cut 22.7 Km

MINING CLAIMS TRAVERSED  
List numerically

P 627001  
.....  
(prefix) (number)  
627002  
.....  
627003  
.....  
393710  
.....  
393711  
.....  
393712  
.....  
613349  
.....  
613350  
.....  
613351  
.....  
613352  
.....  
591427  
.....  
591428  
.....  
591429  
.....

If space insufficient, attach list

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: June 23/82 SIGNATURE: [Signature]  
Author of Report or Agent

Res. Geol. \_\_\_\_\_ Qualifications 24644

Previous Surveys

File No.	Type	Date	Claim Holder
.....	.....	.....	.....
.....	.....	.....	.....
.....	.....	.....	.....
.....	.....	.....	.....
.....	.....	.....	.....
.....	.....	.....	.....
.....	.....	.....	.....
.....	.....	.....	.....
.....	.....	.....	.....
.....	.....	.....	.....

TOTAL CLAIMS 13

OFFICE USE ONLY



GEOPHYSICAL TECHNICAL DATA

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

Number of Stations 834 Number of Readings VLF - 834 Mag - 908
Station interval 25 metres Line spacing 125 metres
Profile scale 1"=20 degrees (dip angle) 1"=100 degrees (horizontal loop)
Contour interval 100 gammas

MAGNETIC

Instrument Proton Precession Total Field
Accuracy - Scale constant .1 Nt
Diurnal correction method automatic programmable
Base Station check-in interval (hours) 20 seconds
Base Station location and value 0 00 at 0+25N

ELECTROMAGNETIC

Instrument Phoenix VLF - 2
Coil configuration N/A
Coil separation N/A
Accuracy +/- 1 degree (dip angle) 20 degrees (horizontal field)
Method: [X] Fixed transmitter [ ] Shoot back [ ] In line [ ] Parallel line
Frequency 17.6 Khz Cutler, Maine
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

SELF POTENTIAL

Instrument \_\_\_\_\_ Range \_\_\_\_\_

Survey Method \_\_\_\_\_

Corrections made \_\_\_\_\_

RADIOMETRIC

Instrument \_\_\_\_\_

Values measured \_\_\_\_\_

Energy windows (levels) \_\_\_\_\_

Height of instrument \_\_\_\_\_ Background Count \_\_\_\_\_

Size of detector \_\_\_\_\_

Overburden \_\_\_\_\_

(type, depth – include outcrop map)

OTHERS (SEISMIC, DRILL WELL LOGGING ETC.)

Type of survey \_\_\_\_\_

Instrument \_\_\_\_\_

Accuracy \_\_\_\_\_

Parameters measured \_\_\_\_\_

Additional information (for understanding results) \_\_\_\_\_

AIRBORNE SURVEYS

Type of survey(s) \_\_\_\_\_

Instrument(s) \_\_\_\_\_

(specify for each type of survey)

Accuracy \_\_\_\_\_

(specify for each type of survey)

Aircraft used \_\_\_\_\_

Sensor altitude \_\_\_\_\_

Navigation and flight path recovery method \_\_\_\_\_

Aircraft altitude \_\_\_\_\_ Line Spacing \_\_\_\_\_

Miles flown over total area \_\_\_\_\_ Over claims only \_\_\_\_\_

GEOCHEMICAL SURVEY – PROCEDURE RECORD

Numbers of claims from which samples taken \_\_\_\_\_

Total Number of Samples \_\_\_\_\_

Type of Sample \_\_\_\_\_  
(Nature of Material)

Average Sample Weight \_\_\_\_\_

Method of Collection \_\_\_\_\_

Soil Horizon Sampled \_\_\_\_\_

Horizon Development \_\_\_\_\_

Sample Depth \_\_\_\_\_

Terrain \_\_\_\_\_

Drainage Development \_\_\_\_\_

Estimated Range of Overburden Thickness \_\_\_\_\_

SAMPLE PREPARATION

(Includes drying, screening, crushing, ashing)

Mesh size of fraction used for analysis \_\_\_\_\_

General \_\_\_\_\_

ANALYTICAL METHODS

Values expressed in: per cent   
p. p. m.   
p. p. b.

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

Others \_\_\_\_\_

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 \_\_\_\_\_

Extraction Method \_\_\_\_\_

Analytical Method \_\_\_\_\_

Reagents Used \_\_\_\_\_

General \_\_\_\_\_



Mining Lands Comments


To: Geophysics *Mr Barlow*

Comments


<input checked="" type="checkbox"/> Approved	<input type="checkbox"/> Wish to see again with corrections	Date <i>April 29/82</i>	Signature <i>R. Barlow</i>
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To: Geology - Expenditures

Comments


<input type="checkbox"/> Approved	<input type="checkbox"/> Wish to see again with corrections	Date	Signature
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To: Geochemistry

Comments

<i>LD</i>

<input type="checkbox"/> Approved	<input type="checkbox"/> Wish to see again with corrections	Date	Signature
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To: Mining Lands Section, Room 6462, Whitney Block. (Tel: 5-1380)

1982 07 05

2.4891

Mining Recorder  
Ministry of Natural Resources  
60 Wilson Avenue  
Timmins, Ontario  
P4N 2B7

Dear Sir:

We have received reports and maps for a Geophysical (Electromagnetic and Magnetometer) survey submitted under Special Provisions (credit for Performance and Coverage) on mining claims P 393710 et al in the Township of Sewell.

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: 416/965-1316

J. Skura/sc

c.c. Gold Fields Resources Canada Limited  
Mississauga, Ontario  
Attn: Jose L. Seara.

**GOLD FIELDS CANADIAN MINING, LTD.**

A Consolidated Gold Fields Group Company

230 LAKESHORE ROAD EAST, SUITE 335  
MISSISSAUGA, ONTARIO L5G 1G8  
PHONE: (416) 271-0181  
TELEX 06-960446

June 24, 1982


Mining Lands Section  
Land Management Branch  
Ministry of Natural Resources  
Room 6450, Whitney Block  
Queen's Park

Attention: Ms. J. Skura

Dear Madam

Enclosed is a report and map (in duplicate)  
for a Geophysical (Electromagnetic - VLF and Mag-  
netometer) survey covering 13 mining claims in  
Sewell Township.

Yours very truly

  
(Mrs) Susan Hurst  
Land Records Clerk  
encl.

cc: W. Troup  
R. Zimmerman  
File: CA 5039

	EM	mag.				FILE NO. 2-4891		
P393710	✓							
'	✓							
12	✓							
591427	✓							
28	✓							
29	✓							
613349	✓							
50	✓							
51	✓							
52	✓							
627001	✓							
002	✓							
003	✓							

MELROSE TWP  
M-861

FREY TWP M-819

THE TOWNSHIP  
OF

SEWELL

DISTRICT OF  
SUDBURY

PORCUPINE  
MINING DIVISION

SCALE: 1-INCH = 40 CHAINS

LEGEND

PATENTED LAND	● or ⊕
CROWN LAND SALE	C.S.
LEASES	Ⓢ
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	—
PATENTED S.R.O.	—

NOTES

400' surface rights reservation along the shores of all lakes and rivers.

Areas withdrawn from staking under Section 43 of the Mining Act (R.S.O. 1970).

Order No.	File	Date	Disposition
164584		7/6/72	S.R.O.
W.30/77	135748	11/3/77	S.R.O.
W.19/78	188543	10/4/78	S.R.O.
11R.W.10/78	135748	14/1/78	S.R.O.

DATE OF ISSUE  
JUN - 3 1983  
Ministry of Natural Resources  
TORONTO

PLAN NO. M-1102

ONTARIO  
MINISTRY OF NATURAL RESOURCES  
SURVEYS AND MAPPING BRANCH

REEVES TWP. M-1074

KEEFER TWP. M-290

HILLARY TWP. M-286

KENO GAMING TWP.

M-967

PHARAND TWP.  
M-306

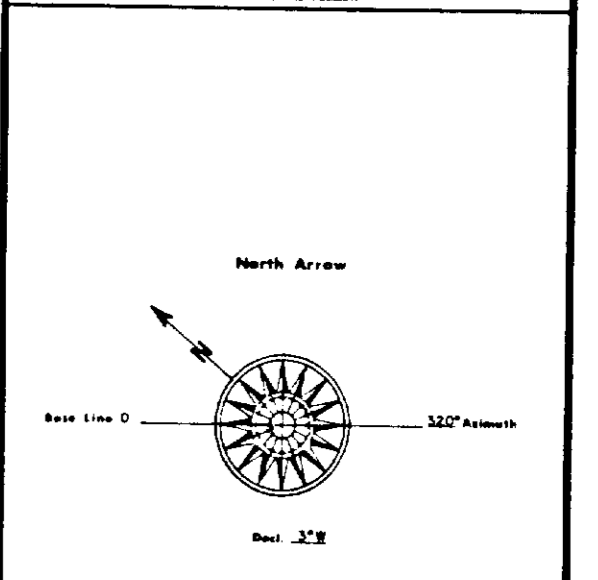
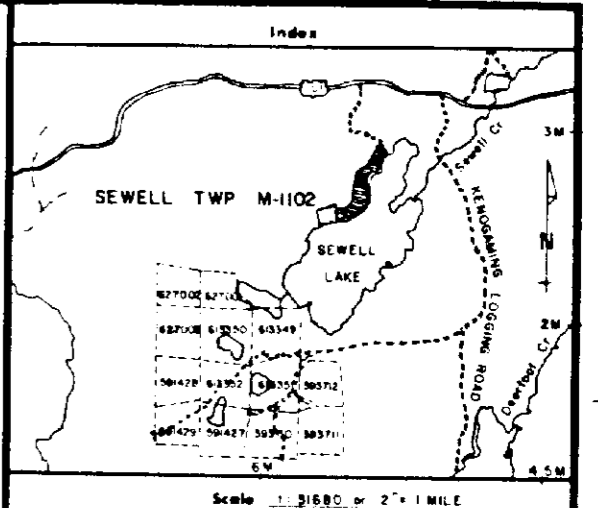
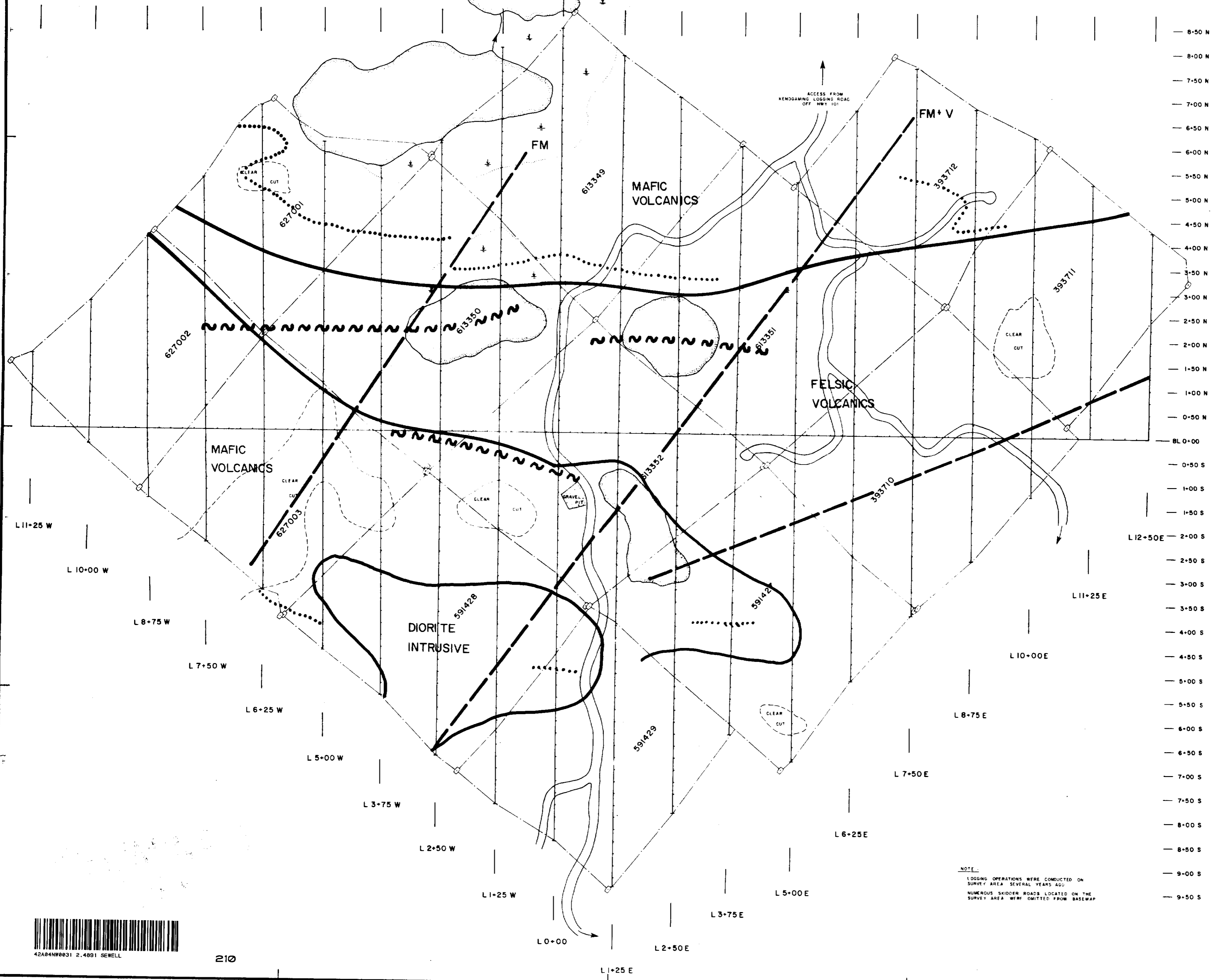


42A04W0031 2.4091 SEWELL



L11+25 W L10+00 W L8+75 W L7+50 W L6+25 W L5+00 W L3+75 W L2+50 W L1+25 W L0+00 L1+25 E L2+50 E L3+75 E L5+00 E L6+25 E L7+50 E L8+75 E L10+00 E L11+25 E L12+50 E

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8-50 S  
9-00 S  
9-50 S



FV	Fault VLF
FM	Fault Mag
~~~~~	Shear Zone
.....	Iron Formation

Legend	
	Lake
	Stream
	Wet Swamp
	Logging
	Skidder Road
	Road
	Winter Road
	Rail Road
	Power Line
	Contour
	Terrain Slope
	Outcrop
	Clearing
	A.M.
	A.S. (Same Station)
	Ad.A.
	Shaft
	Building

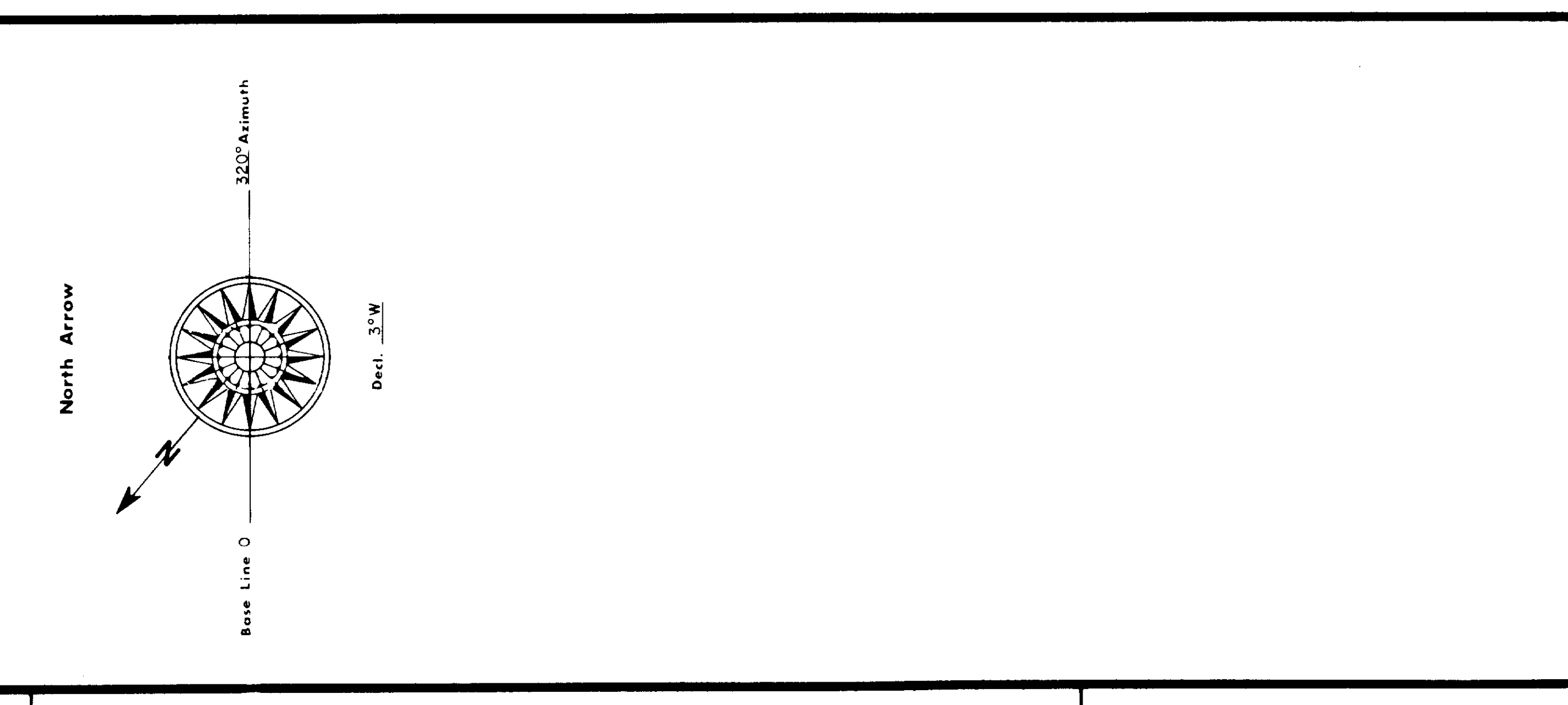
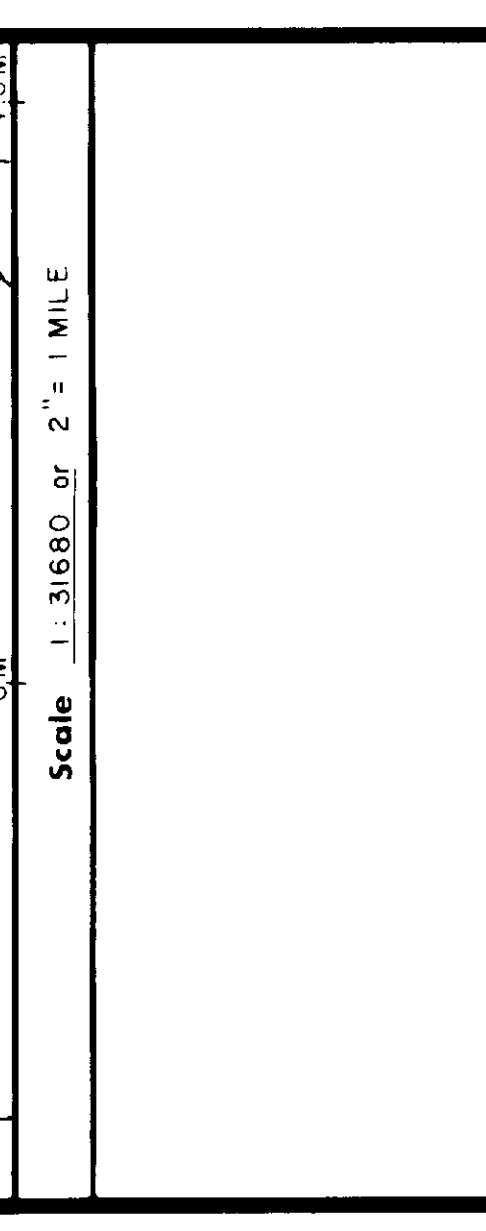
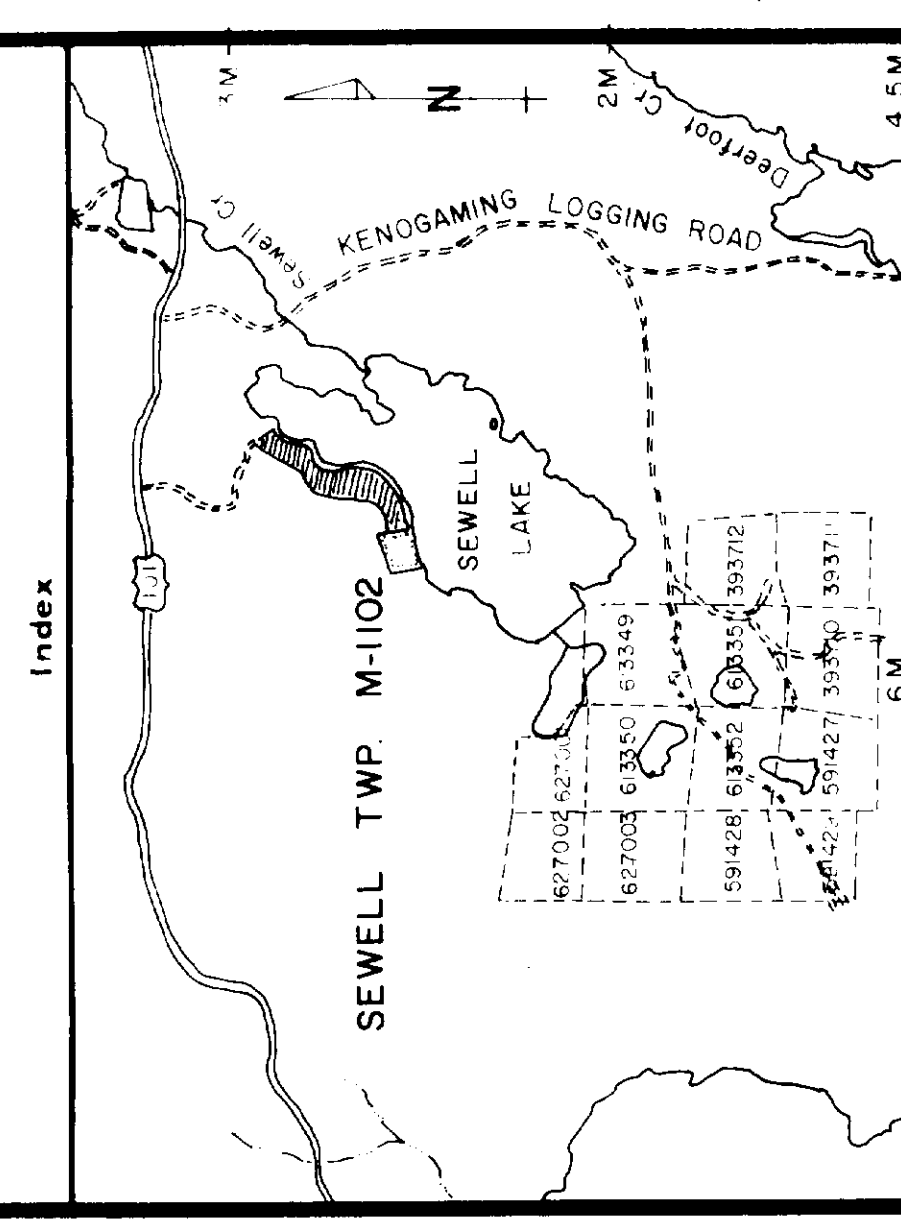
NOTE  
LOGGING OPERATIONS WERE CONDUCTED ON SURVEY AREA SEVERAL YEARS AGO. NUMEROUS SKIDDER ROADS LOCATED ON THE SURVEY AREA WERE OMITTED FROM BASEMAP.



210

Total line	Total Readings
Metric	English
<p>Scale 1:2500</p> <p>Date APRIL 1982</p> <p>Drawn by DAVID J. GLETON</p> <p>Checked by</p>	
<p>Blue Monday Claim Group</p> <p>Sewell</p> <p>Foleyet, Ontario</p>	
<p>Scale 1:2500</p> <p>Date APRIL 1982</p> <p>Drawn by DAVID J. GLETON</p> <p>Checked by</p>	

2.4891



**Legend**

- Lake
- Stream
- Wet Swamp
- Swamp
- Beaver Dam
- Road
- Winter Road
- Bill Road
- Power line
- Cliff
- Terrain key
- Out crop
- Claim post
- B.M.
- B.S. (Base Station)
- Shelf
- Building

**MAGNETICS SURVEY**

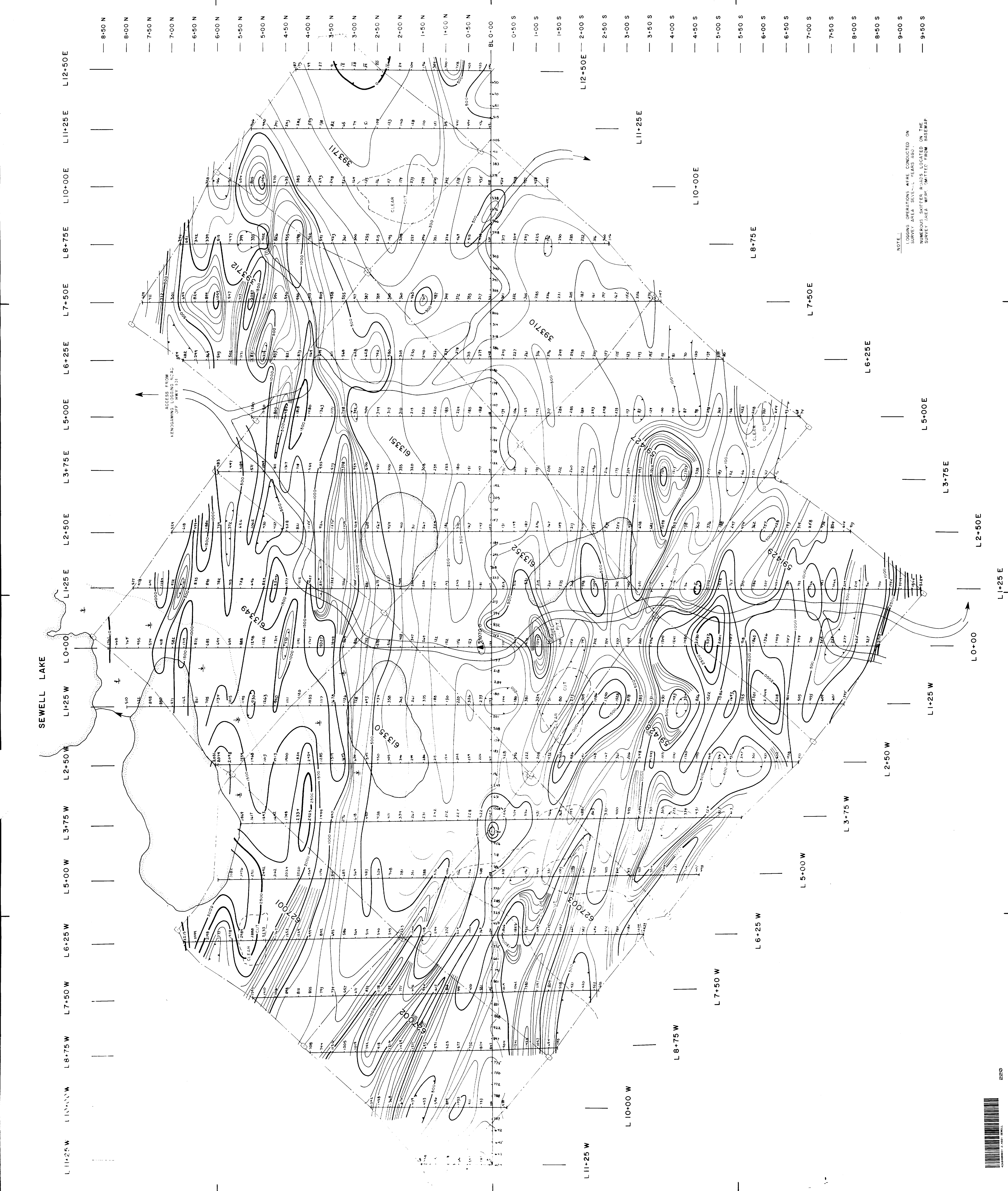
Type: PROTON PRESSION TOTAL FIELD  
 INSTRUMENT: E.D.A. PPM-300, 4.01 gamma  
 TOTAL FIELD: ADD 59,000 GAMMAS  
 Base Station Location: L 10+00, 0 25 N  
 Base Station Value: 59 070.0  
 Base Station Recorder: E.D.A., PPM-400  
 Base Station Interval: 20 seconds  
 Oper/dates: GEOX / April 7, 8, 9 1982  
 Contour interval: 100 gamma  
 500 gamma contour  
 2500 gamma contour  
 Depression

Total line: 22.49 km  
 Total Readings: 908

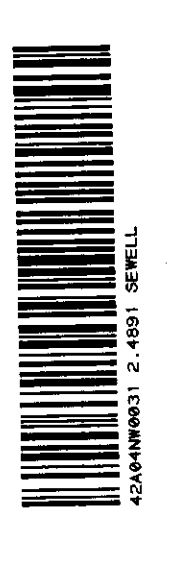
Metric: 50m 25m 0  
 English: 200' 100' 0

Project: BLUE MONDAY CLAIM GROUP  
 Prop: Sewell  
 Area: Foleyel, Ophel

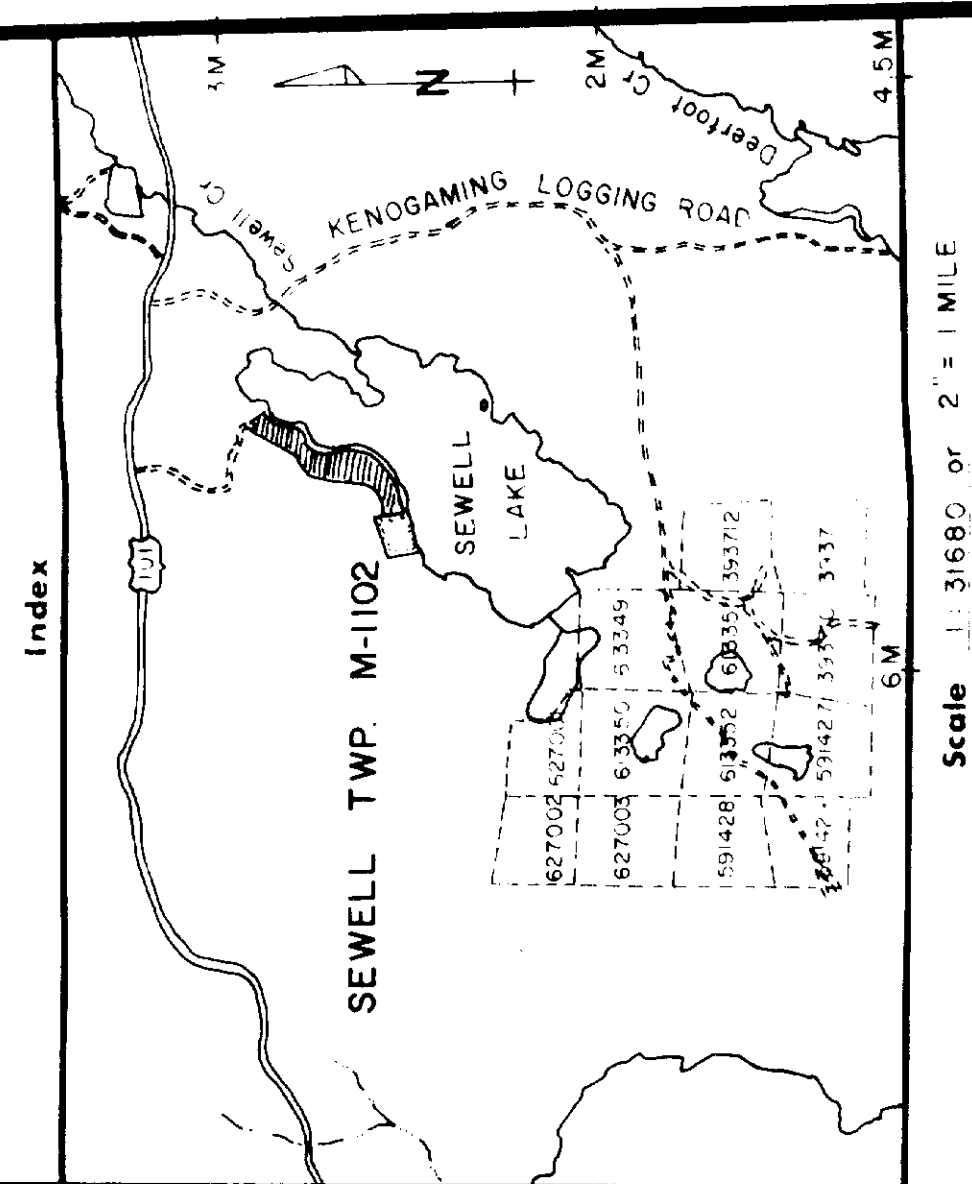
Date: 11 20 82  
 Scale: APRIL 82  
 Drawn by: DAVID J. GLEDSON  
 Checked by: MMS-1  
 42 A 7.4



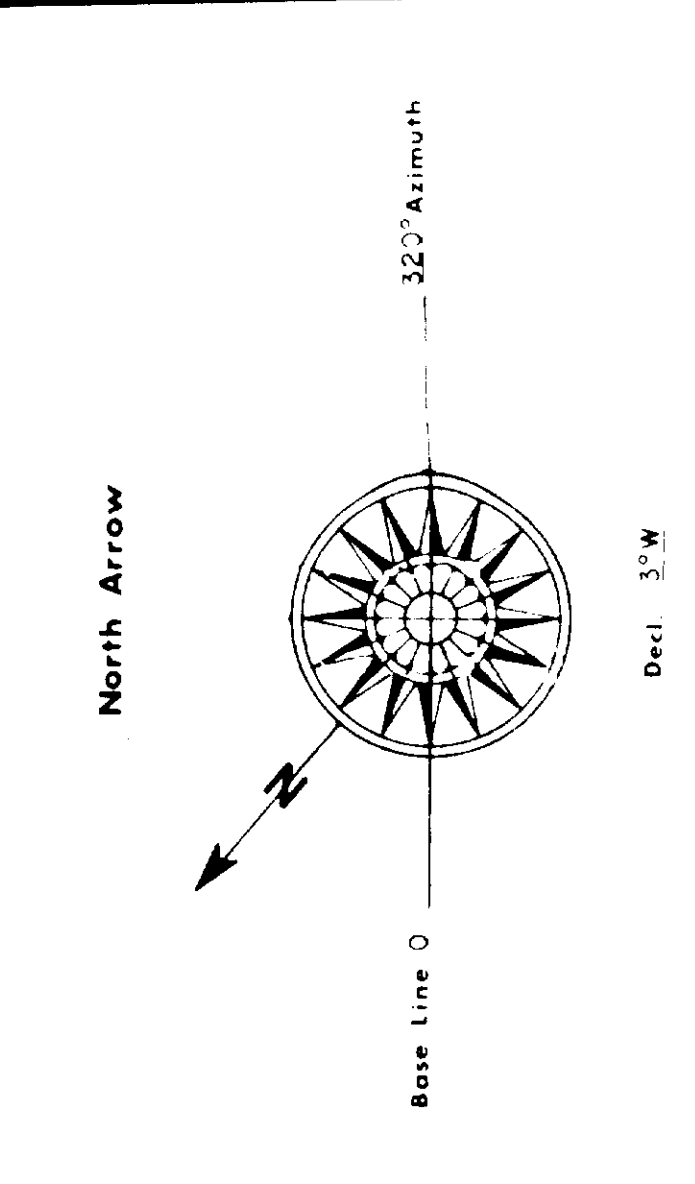
NOTE:  
 LOGGING OPERATIONS WERE CONDUCTED ON  
 SURVEY AREA SEVEN YEARS AGO.  
 NUMEROUS SKITTER ROADS LOCATED ON THE  
 SURVEY AREA WERE OMITTED FROM BASEMAP



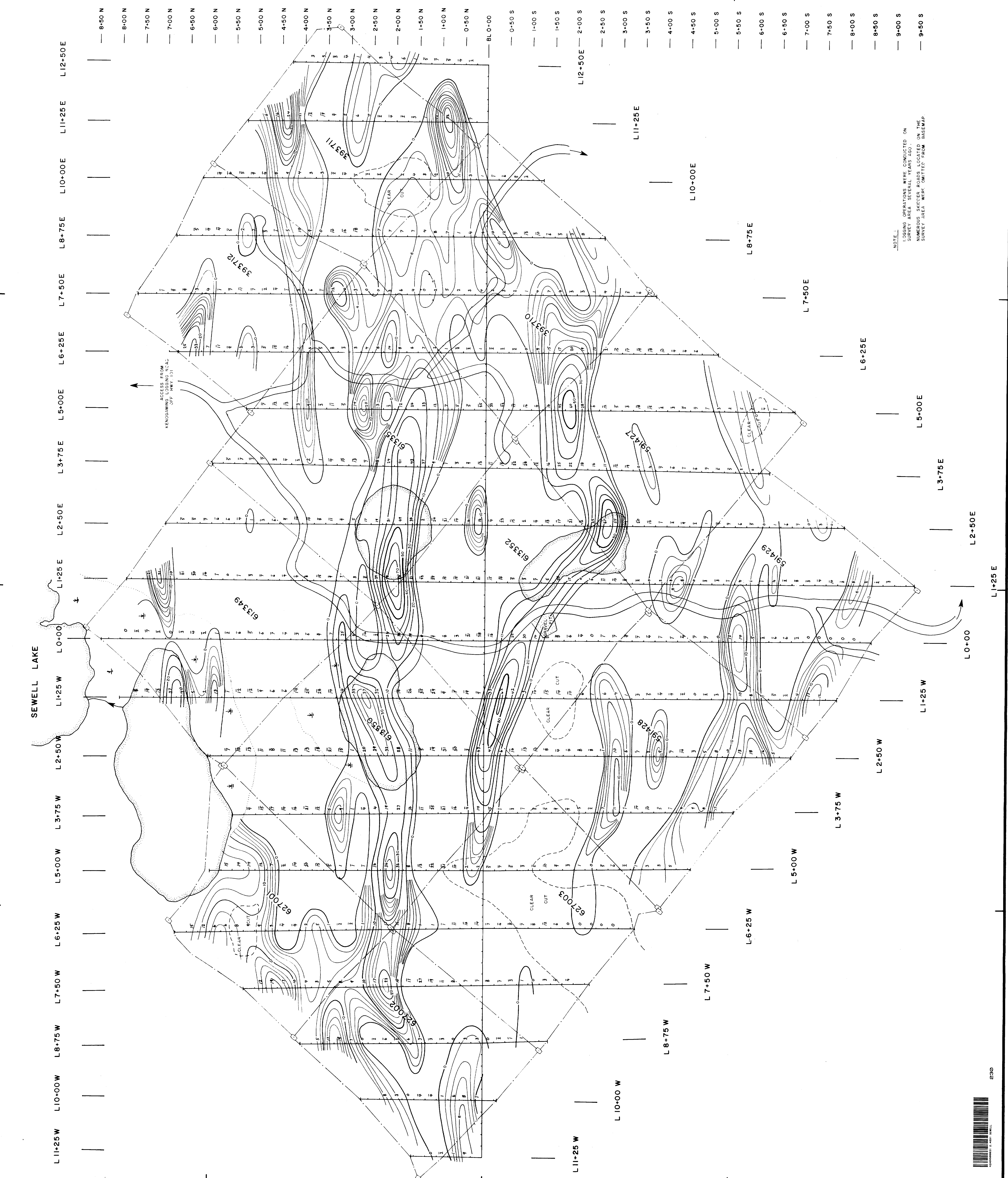




Scale 1:31850 or 2" = 1 MILE



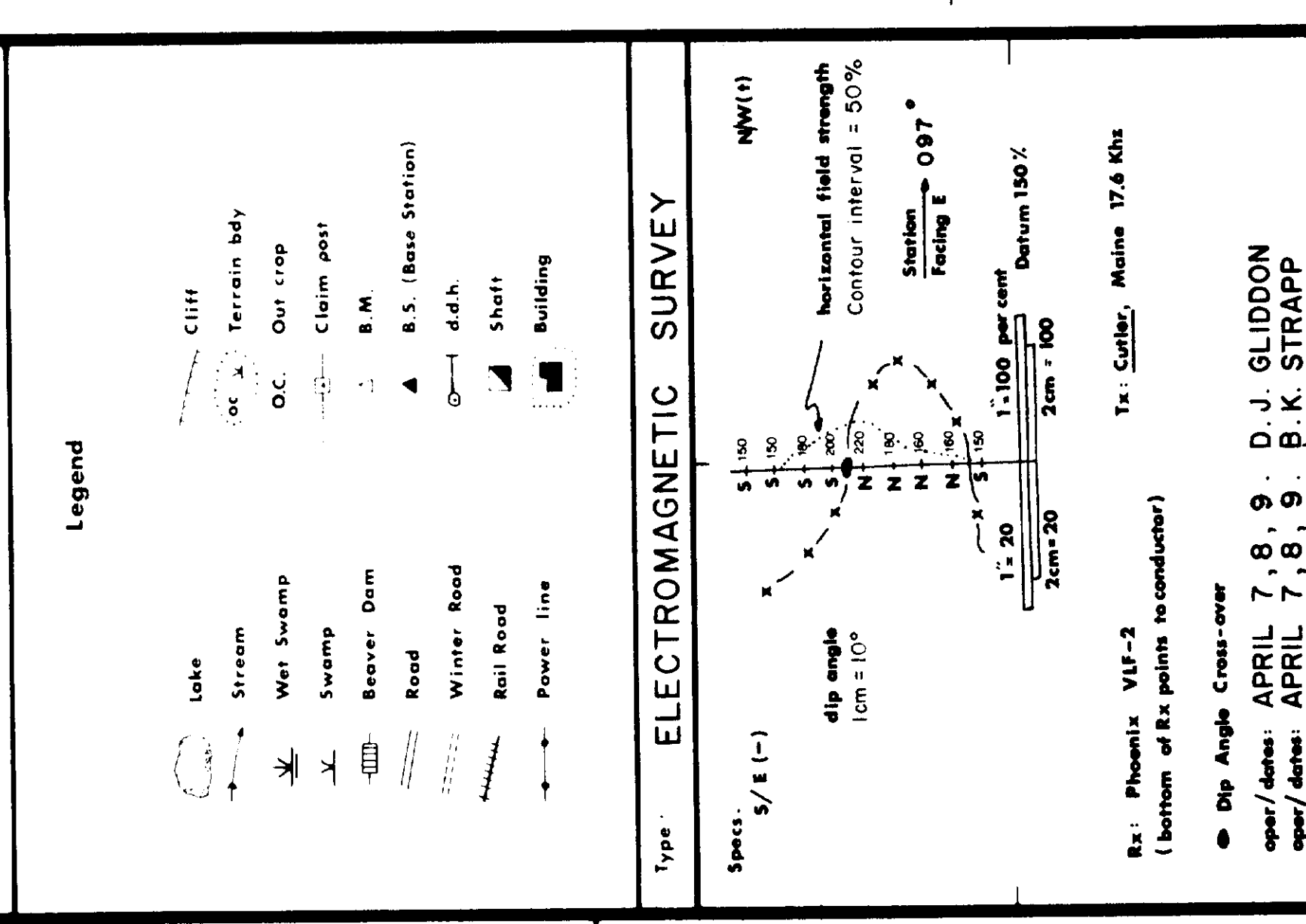
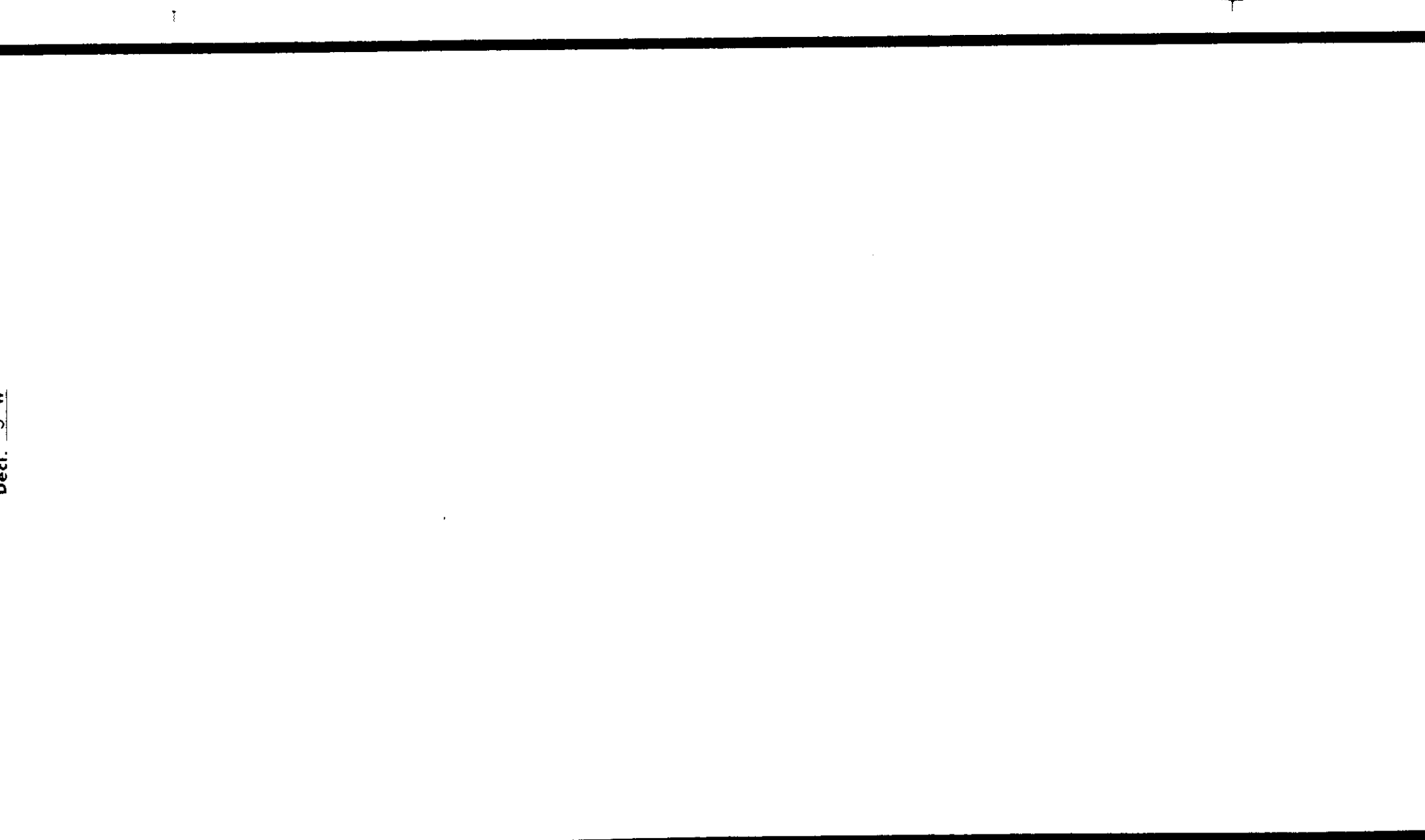
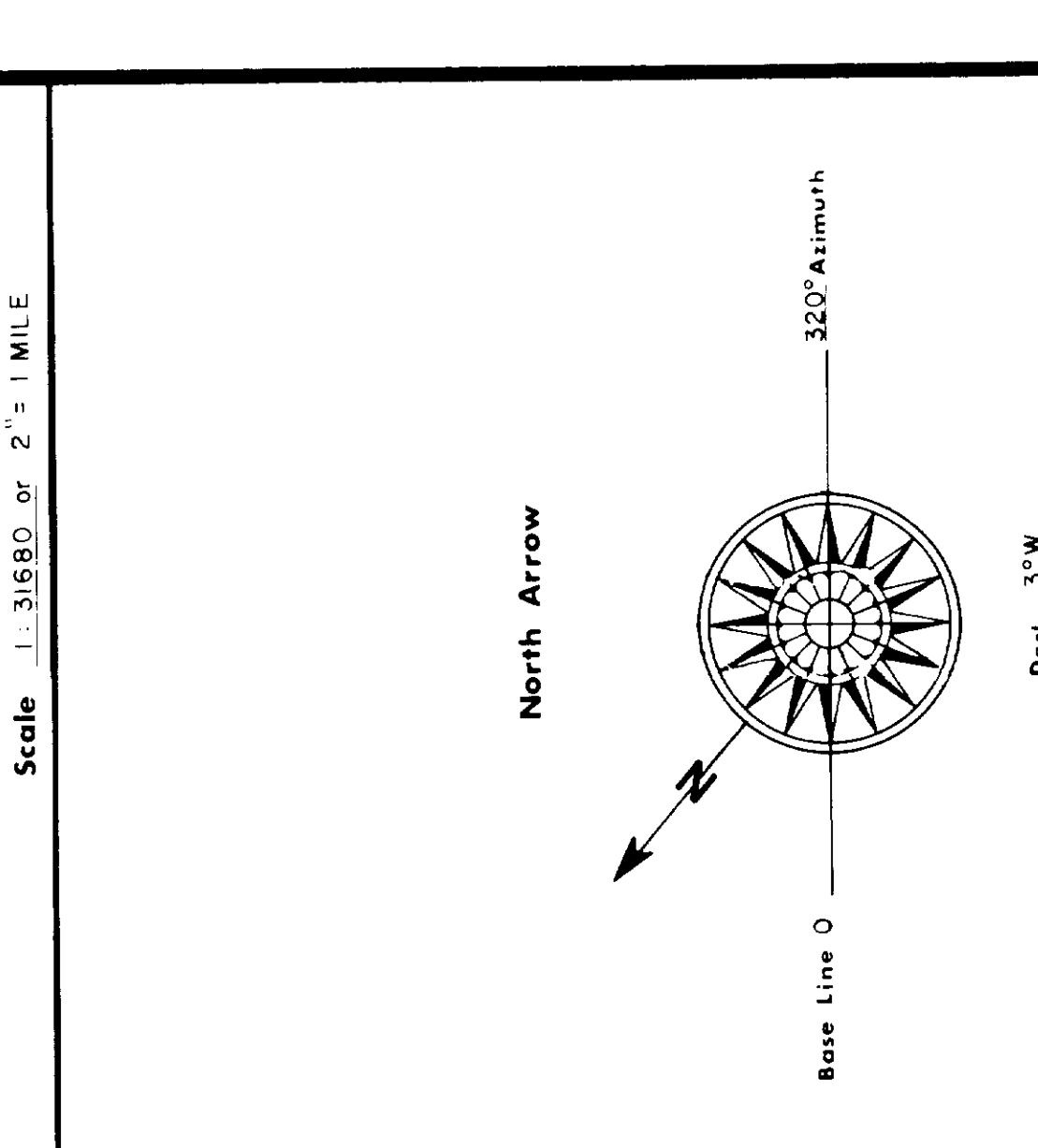
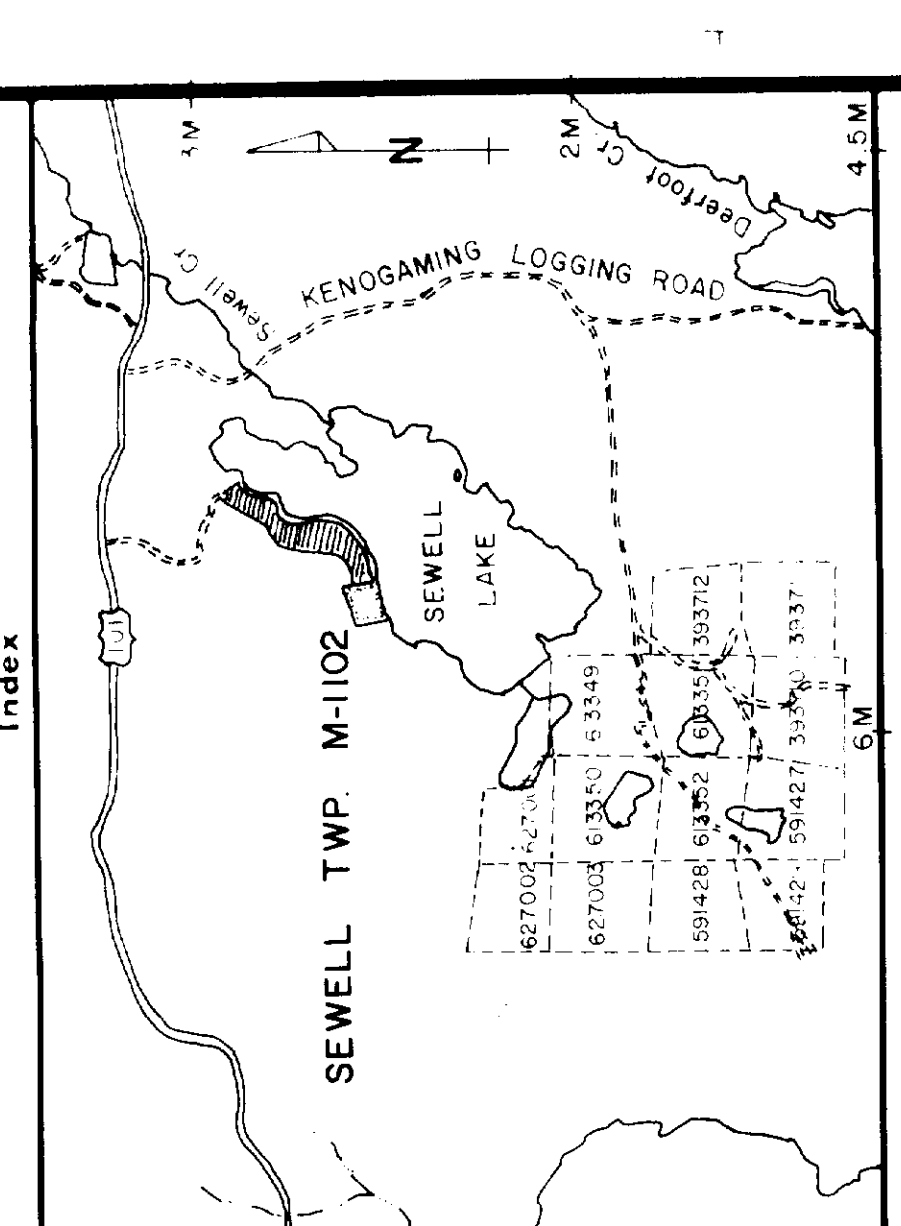
<b>Legend</b>	<ul style="list-style-type: none"> <li>Lake</li> <li>Stream</li> <li>Wet Swamp</li> <li>Swamp</li> <li>Recent Dam</li> <li>Road</li> <li>Winter Road</li> <li>Ball Road</li> <li>Power line</li> <li>Climb</li> <li>Terrain key</li> <li>Out crop</li> <li>Claim post</li> <li>B.M.</li> <li>B.S. (Base Station)</li> <li>Shelf</li> <li>Building</li> </ul>
<b>FRASER FILTER</b>	<ul style="list-style-type: none"> <li>File: red dip angle contours</li> <li>0, 10 contour</li> <li>5, 12 contour</li> <li>100 contour</li> </ul>



NOTE:  
LOGGING OPERATIONS WERE CONDUCTED ON  
SURVEY AREA SEVERAL YEARS AGO.  
NUMEROUS SKIDDER ROADS LOCATED ON THE  
SURVEY AREA WERE OMITTED FROM BASEMAP

<b>Total Readings</b>	
Merric English	1000
Revisions	1000
<b>GOLD FIELDS MINING</b>	
Project: BLUE MONDAY CLAIM GROUP	
Map No. 1	
Sewell Foley	
Date: APRIL, 1982	
Drawn by: DAVID J. GLIDDEN	
Checked by: [Signature]	
N.T.S. 42 A / 75	



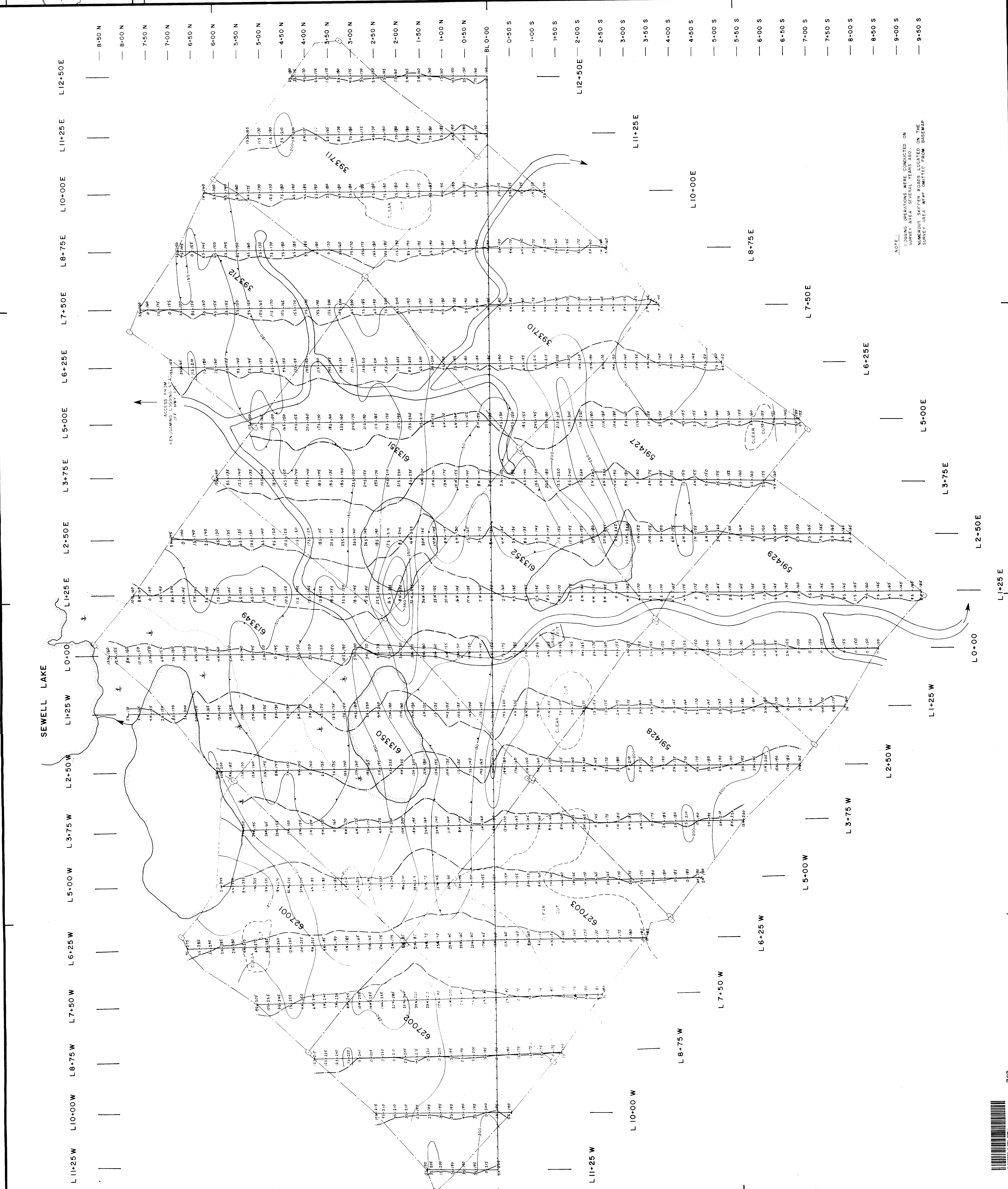


Metric		English	
0	0	0	0
100	100	100	100
200	200	200	200
300	300	300	300
400	400	400	400
500	500	500	500
600	600	600	600
700	700	700	700
800	800	800	800
900	900	900	900
1000	1000	1000	1000

Total line 20.1 km Total Readings 334

Project: BLUE MONDAY CLAIM GROUP  
 Top: Sewell  
 Base: Foleyet

Scale: 1:38800  
 Date: APRIL 7, 1982  
 Drawn by: DAVID J. GLIDDON  
 Checked by: [Signature]  
 Map No.: VLP-1  
 Contour by: NTS 424/74



NOTE: READING OPERATIONS WERE CONDUCTED ON THE SURVEY AREA SEVERAL YEARS AGO. NUMEROUS SKIMMER ROADS LOCATED ON THE SURVEY AREA WERE OMITTED FROM BASEMAP.