42A01SE0107 2.13368 OTTO

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REPORT ON A VLF SURVEY

PERFORMED ON OTTO GRAVEL PIT CLAIMS

OTTO TOWNSHIP

LARDER LAKE MINING DIVISION

2.13368

RECEIVED
JUN 15 1990
MINING LANDS SECTION

JANUARY 10, 1990

L.M.DYMENT
BOX 66
SWASTIKA, ONTARIO
P0K 1T0

LOCATION

The property consists of five contiguous unpatented mining clims numbered L891866 to 891869 inclusive and L917317 situated in the N1/2 of Lot 5 Concession VI and the SE1/4 of the N1/2 of Lot 6 Concession VI, Otto Twp., Larder Lake Mining Division.

ACCESS

The property is reached via Highway 112 about 3 miles west and south of Kirkland Lake.

TOPOGRAPHY

The ground is characterized by sand and gravel ridged with numerous outcroppings. Vegetation is primarily alder with small poplar stands.

PREVIOUS WORK

Another report handed in at the same time as this, referred to as Prospecting Compilation Report and Map, documents the previous work.

All traces of previous grids and locations referring to these have been obliterated by the timbering of over 80% of this property.

LINECUTTING

A linecutting contract of 5 miles was given to Danny Lacasse of Kirkland Lake and completed August of 1989. A baseline was established on an azimuth of 310 degrees and lines cut as shown on the accompanying map.

VLF SURVEY

The VLF readings were taken during the latter part of August 1989 by the author. The station used was Cutler, Maine (24.0 KHZ) and the instrument used was a Crone Radem. The resultes of the survey are plotted on the 2 maps accompanying this report: Radem VLF Profile Map; *Radem Fraser Filter Map.*

VLF RESULTS

Anomaly A: A strong conductor that tends to follow the contours of the river system. Numerous areas of rusty-graphitic to dacitic rocks can be found on the river bed. A definite fault zone.

Anomaly B: A shear or splay off of "A" containing less permeable rocks such as cherty rhyolites and dacites.

Anomaly C: A very strong conductor that runs the length of the property with numerous mineralized zones of Sphalerite and Chalcopyrite within a graphitic argillaceous horizon.

Anomaly D: A strong conductor in the vicinity of an Oxide Iron Formation (banded), which contains some massive sulphides of pyrite and ptrrhotite.

Anomaly E: Possible effect in the area of Railroad tracks and Telephone wires.

CONCLUSION

The property should be properly mapped using the VLF survey information as a grid.

Ministry of Northern Development and Mines

Ontario

DOCUMENT NO. W9008•165

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Report of Work
Mining Act
(Geophysical, Geological and Geochemical Surveys)

Mining Lands Section, Mineral Development and Lands Branch

Type of Survey(s)	Mining Division	Township or Area
ULF-EM.	LARDER.	OTTO

Recorded Holder(s)	Prospector's Licence No.
L.M. DYMENT & J.A. KIDSTON	K18402/K18401
Address	**Telephone No.**
BOX 66 SWASTIKA, ONT P0K 1T0	642-3062
Survey Company	
JOMI MINERALS	
Name and Address of Author (of Geo-Technical Report)	**Date of Survey (from & to)**
L.M. DYMENT AS ABOVE	15 Day / 8 Mo. / 89 Yr. — 10 Day / 1 Mo. / 90 Yr.

Credits Requested per Each Claim in Columns at right

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

Total miles flown over claim(s).

Mining Claims Traversed (List in numerical sequence)

Mining Claim Prefix	Mining Claim Number	Mining Claim Prefix	Mining Claim Number	Mining Claim Prefix	Mining Claim Number
L.	891866				
L	891867				
L	891868				
L	891869				
L	917317				

RECEIVED
JUL 12 1990
MINING LANDS SECTION

ONTARIO GEOLOGICAL SURVEY
ASSESSMENT FILES
JUL 16 1990
RECEIVED

RECEIVED
JUN 15 1990
MINING LANDS SECTION

Date	Recorded Holder or Agent (Signature)
JUNE 9/90	

Total number of mining claims covered by this report of work: 5

Certification Verifying Report of Work

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

Name and Address of Person Certifying	Telephone No.	Date	Certified By (Signature)
L.M. DYMENT AS ABOVE	642-3062	JUNE 8/90	

Received Stamp

RECEIVED
LARDER LAKE
MINING DIVISION
JUN 19 1990
TIME 8:30 am

For Office Use Only

Total Days Cr. Recorded	Date Recorded	Mining Recorder
200	June 14/90	M.G. Wenmen
	Date Approved as Recorded	Provincial Manager, Mining Lands
	13 July 90	

1362 (89/06)

Ministry of Northern Development and Mines

Ontario

Geophysical-Geological-Geochemical Technical Data Statement

2.13368

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) VLF-EM

Township or Area OTTO

Claim Holder(s) L.M. DYMENT & J.A. KIDSTON
BOX 66 SWASTIKA, ONT POKITO

Survey Company JOMI MINERALS

Author of Report L.M. DYMENT

Address of Author SAME AS ABOVE

Covering Dates of Survey AUG 1989 - JAN 10, 1990
(linecutting to office)

Total Miles of Line Cut 4.6

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	
VLF-Electromagnetic	40
-Magnetometer	
-Radiometric	
-Other	
Geological	
Geochemical	

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

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

DATE: JUNE 8/90 SIGNATURE: _____
Author of Report or Agent

Res. Geol. _____ Qualifications 2.2903

Previous Surveys

File No.	Type	Date	Claim Holder

MINING CLAIMS TRAVERSED
List numerically

(prefix)	(number)
L	891866
L	891867
L	891868
L	891869
L	917317

If space insufficient, attach list

TOTAL CLAIMS 5

OFFICE USE ONLY

837 (85/12)

GEOPHYSICAL TECHNICAL DATA

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

Number of Stations 245 Number of Readings 245

Station interval 100' Line spacing 400'

Profile scale 1" = 40'

Contour interval 10

MAGNETIC

Instrument ~~CRONE RADEM~~

Accuracy – Scale constant

Diurnal correction method

Base Station check-in interval (hours)

Base Station location and value

ELECTROMAGNETIC

Instrument CRONE RADEM.

Coil configuration HOR & VERT.

Coil separation INFINITY

Accuracy ± 10%

Method: ☒ Fixed transmitter ☐ Shoot back ☐ In line ☐ Parallel line

Frequency CUTLER MAINE 24.0 KHZ
(specify V.L.F. station)

Parameters measured INPHASE

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 _____

_____

_____

_____

_____

_____

_____

_____

_____

FORESTRY OPERATIONS

TECK TP. - M.392

12 11 10 9 8 7 6 5 4 3 2 1

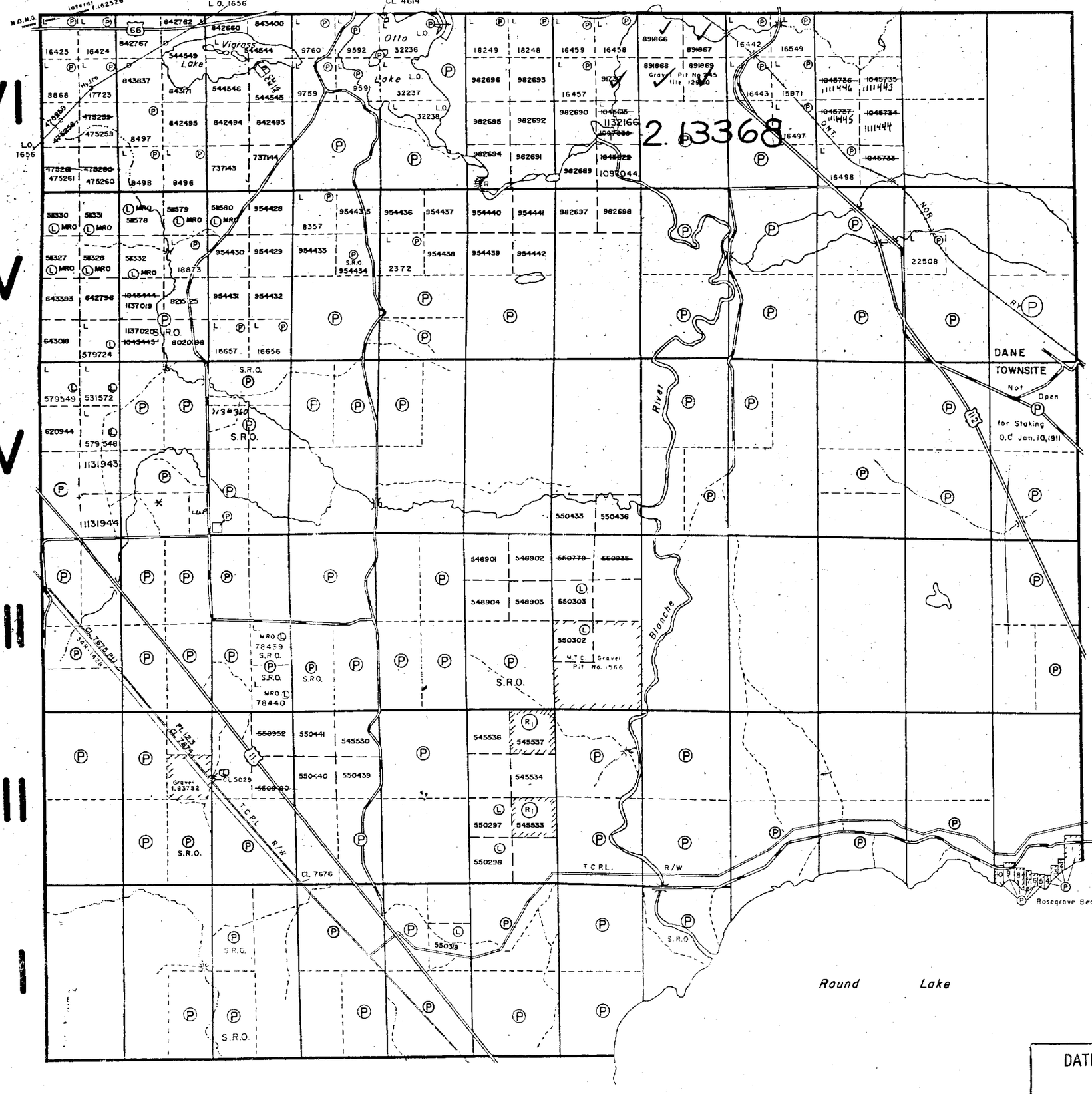
VI

V

IV

EBY TP. - M.345

BOSTON TP. - M.332



MARQUIS TP. - M.362

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DATE OF ISSUE

JUN 4 1990

LARDER LAKE MINING RECORDER'S OFFICE

THE TOWNSHIP OF OTTO

DISTRICT OF TIMISKAMING

LARDER LAKE MINING DIVISION

SCALE: 1-INCH=40 CHAINS

LEGEND

PATENTED LAND	● or (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	
PATENTED S.R.O.	

NOTES

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

(R1) SURFACE AND MINING RIGHTS WITHDRAWN FROM STAKING SEC. 36/80, W.9/86, JAN. 24, 1986

✱ APPLICATION UNDER THE PUBLIC LANDS ACT SEC. 31 (b) OF THE MINING ACT

CL.5029 DISPOSITION OF CROWN LAND

NOTICE OF FORESTRY ACTIVITY

THIS TOWNSHIP / AREA FALLS WITHIN THE _____ TIMISKAMING MANAGEMENT UNIT

AND MAY BE SUBJECT TO FORESTRY OPERATIONS. THE MNR UNIT FORESTER FOR THIS AREA CAN BE CONTACTED AT: P.O. BOX 129
SWASTIKA, ONT.
P0K 1T0
705-642-3222

PLAN NO.-M-379

MINISTRY OF NORTHERN DEVELOPMENT AND MINES

OTTO GRAVEL PIT PROPERTY

OTTO TWP.

LARDER LAKE MINING DIV.

RADEM VLF PROFILE MAP

weak conductor

strong conductor

2.13368

	891866	891867
917317	891868	891869

ONR

N

HWY. 112

Scale 1" = 200'

1" = 40 degrees

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8W 4W 0+00 4E 8E 12E

OTTO GRAVEL PIT PROPERTY

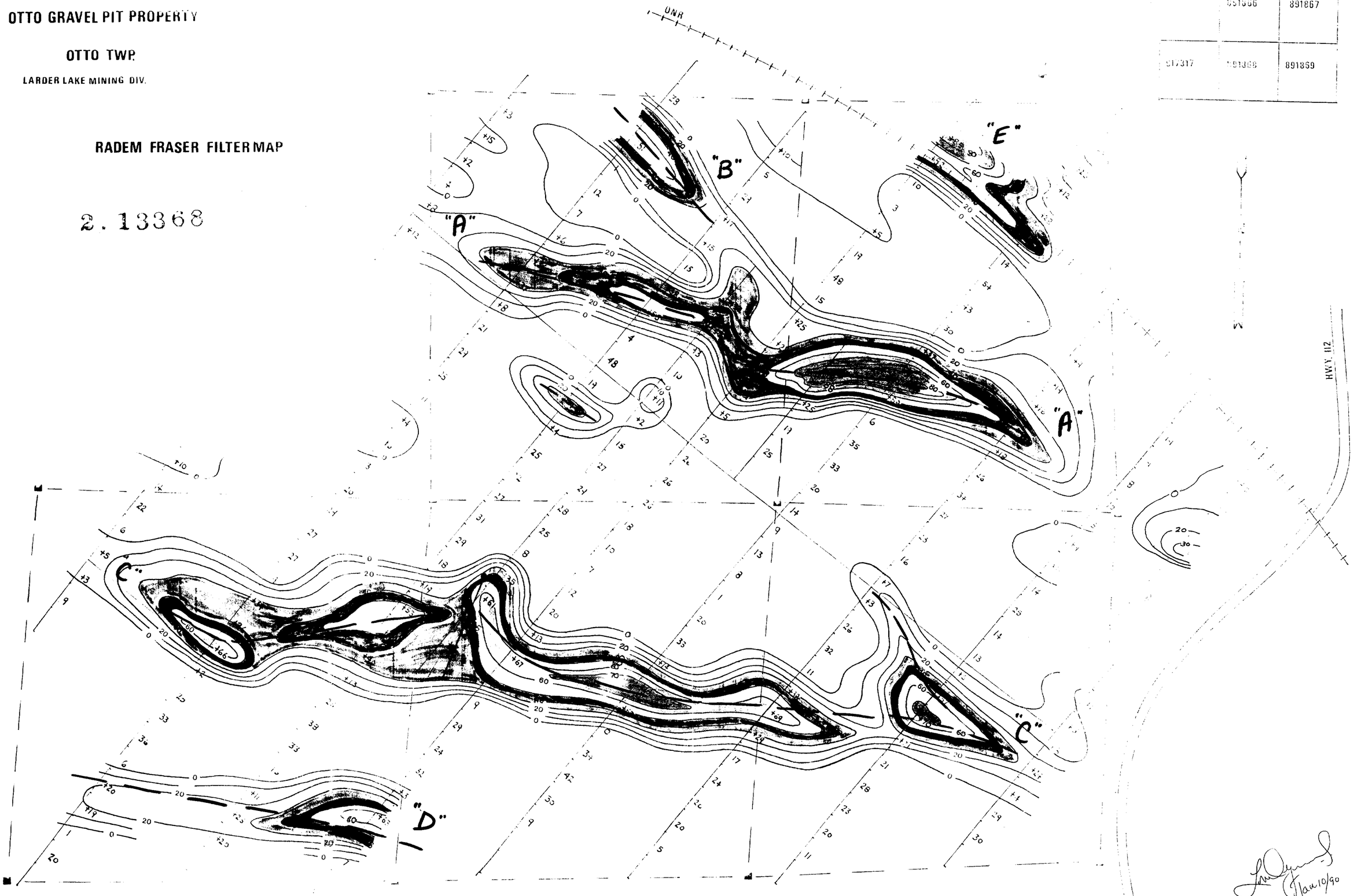
OTTO TWP.

LARDER LAKE MINING DIV.

RADEM FRASER FILTER MAP

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	891866	891867
917317	891868	891869



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12W

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