

W 9780 • 00309
MENT No.

REPORT ON A PROGRAM
OF
GEOLOGICAL MAPPING, MAGNETOMETER,
VLF-EM SURVEYS AND DIAMOND DRILLING

ON

CLAIM NO. 1191310, LEONARD TOWNSHIP
LARDER LAKE MINING DIVISION

FOR

ROY ANNETT, PROSPECTOR

SHINING TREE, ONTARIO

2.17234

November 14, 1996
Toronto, Ontario

J. L. Tindale
Geologist

Qual. #
63.2846

NTS 41 P 11

LONG. 80°55' LATITUDE 47°29'

ASSESSMENT WORK REPORT

RECEIVED
MAY - 1 1997
MINING LANDS BRANCH



41P11SE0090 2.17234 LEONARD

INTRODUCTION

Roy Annett, a prospector residing in Shining Tree, Ontario located a base metal mineralization in southern Leonard Township during the autumn of 1994 while prospecting along a new forestry access road. Annett blasted several shallow pits into the outcrops exposing galena, sphalerite and chalcopyrite along with pyrite and pyrrhotite associated with sheared mafic volcanics and quartz-carbonate veining. Subsequent staking by Annett followed by stripping and further trenching and pitting during 1995 continued to improve the potential of the showing.

During the spring of 1996 Annett applied for an OPAP grant to carry out geological and geophysical surveys over the property and to drill a hole under the primary showing. OPAP grant No. 96-098 was subsequently issued and the following describes work carried out on the claim during 1996.

LOCATION AND ACCESS

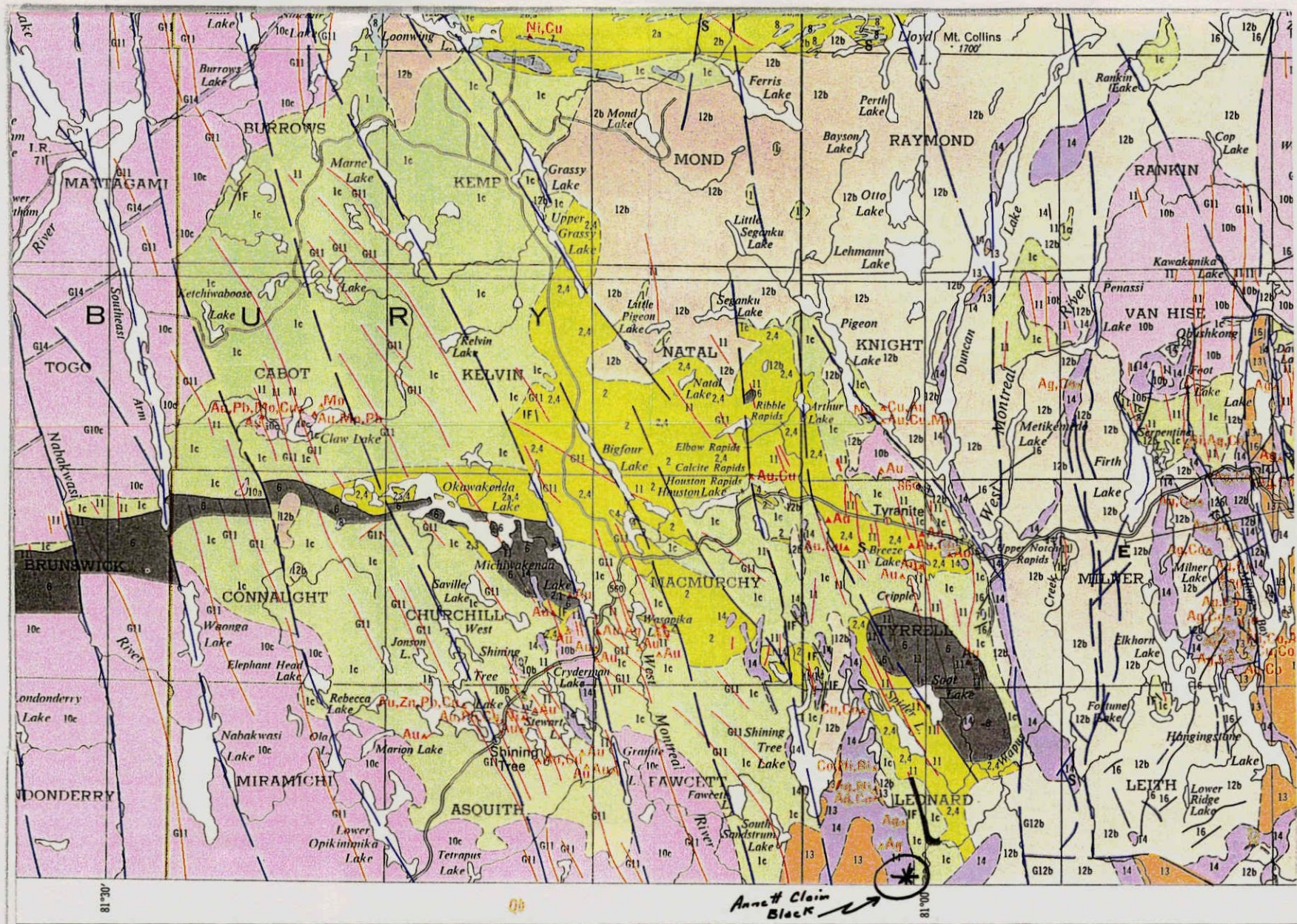
The property is located in southern Leonard Township adjacent to the boundary with adjoining North Williams Township.

Access is provided by following the Sandy Lake road easterly from its commencement at highway #560, 5 km. west of Shining Tree for some 25 km. to a juncture with the HEPC access road near Norman Lake. The HEPC road is taken north for 1.35 km. to a new forestry access trail prepared by Fiset Lumber which leads easterly for 0.9 km. to the showings which are adjacent to this right of way.

The claim has been partially clear cut and is underlain with sand plain and swamp with low ridges containing isolated outcroppings. A branch of West Wapus Creek flows northerly along the eastern sector of the block.

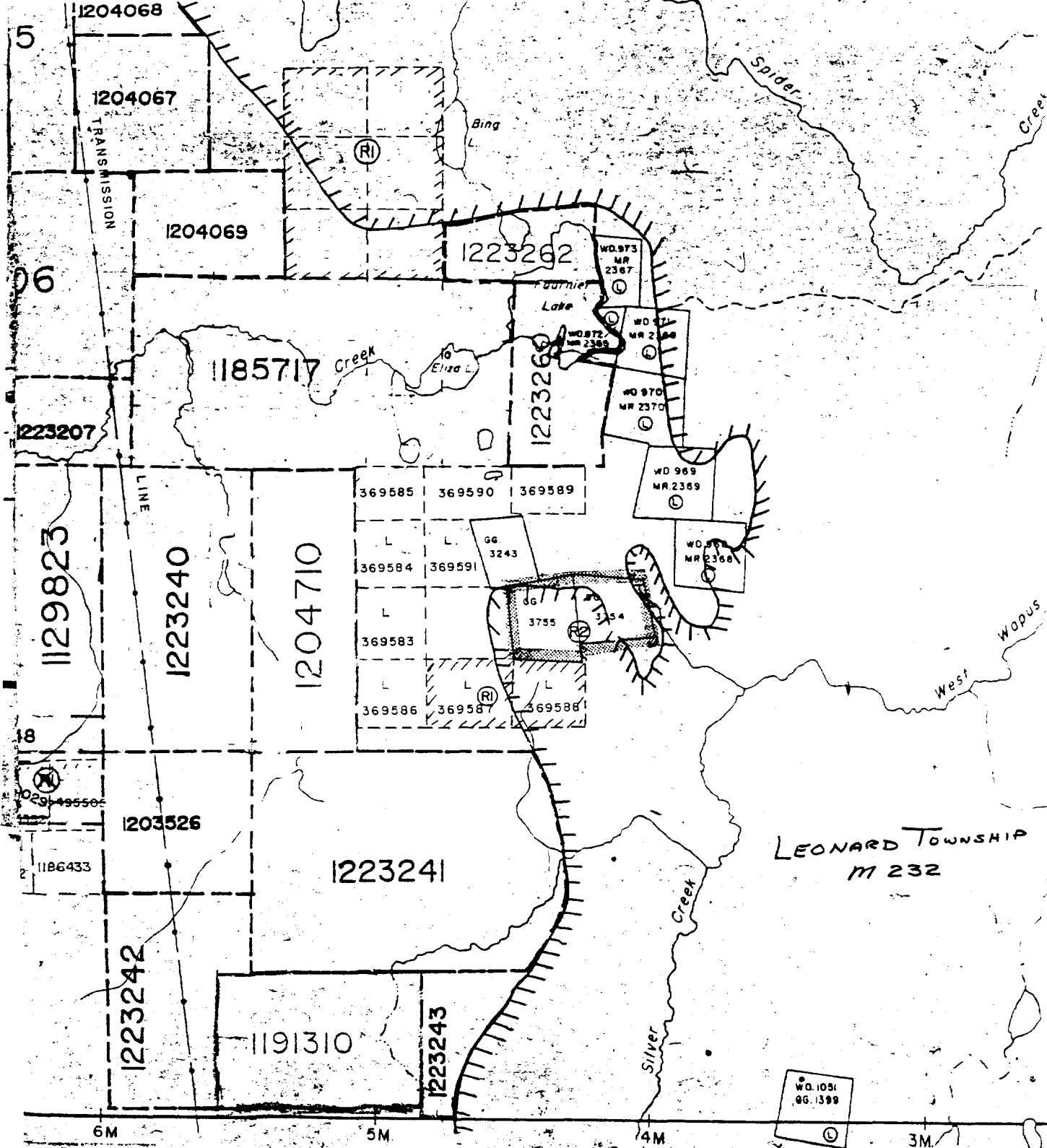
CLAIM DATA

Roy Annett recorded claim 1191310, a six unit block, over the showing area on October 18, 1994. Equal partners in the claim are Larry Salo of Connaught, Ontario and the writer of Toronto, Ontario.



ROY ANNETT PROPERTY
 LOCATION MAP
 LEONARD TOWNSHIP
 SCALE 1" = 4 MILES
 FIGURE NO. 1





IS THE
 LOCATION
 LINES OF
 IS THE
 BENT
 EXACT
 E
 NG
 Y THE

NORTH WILLIAMS TWP - M.240

ROY ANNETT PROPERTY
 LEONARD TOWNSHIP
 CLAIM 1191310
 SCALE 1" = 1/2 MILE
 FIGURE NO. 2

HISTORICAL WORK

Leonard Township and North Williams Township have been prospected and explored sporadically since the early 1900's primarily for silver and cobalt mineralization which was found to occur in diabase sills hosting calcite veins similar to occurrences at Cobalt and Gowganda. Particularly in the north central portion of the Leonard Township are shafts and pits common with cobalt bloom evident on the dumps verifying this activity.

The showing uncovered by Annett appears to be a new find, being partially uncovered by Fiset Lumber's road building. During the summer of 1995 Annett utilized Larry Salo's bulldozer to strip three areas proximal to the original find. Plugger work and blasting opened up a series of pits and trenches allowing fresh sampling and analysis. Promising values in copper, lead and zinc were returned as depicted on the attached plan of stripping and trenching at a scale of 1" = 20 feet.

TABLE OF FORMATIONS

Late Precambrian

Mafic Intrusives

Diabase dikes

Diabase sills, Nipissing Diabase

Huronian Supergroup

Lorrain Formation - quartzite, arkose, greywacke

Gowganda Formation - quartzite, arkose, conglomerate, argillite

----- Unconformity -----

Archean - Early Precambrian

Felsic Intrusives

Granite, lamprophyre feldspar porphyry

Ultramafic Intrusives

Dunite, peridotite

Metavolcanics and Metasediments

Greywacke, chert, siltstone, breccia

Felsic Metavolcanics

Rhyolite, tuffs, porphyritic flows, pyroclastics

Intermediate Metavolcanics

Andesite, pillowed and amygdaloidal flows, tuffs, breccia

Mafic Metavolcanics

Basalt, pillowed flows, breccia, amphibolite

Iron Formation

GENERAL GEOLOGY

Much of the eastern and western sectors of Leonard Township are underlain by Nipissing diabase sills which have intruded sediments of the Huronian Supergroup. Central Leonard Township is underlain by Archean felsic to intermediate metavolcanics which trend westerly to northeasterly and are cut by north trending diabase dikes and intruded by small plugs of granite. Bands of iron formation comprised of jasper, magnetite and pyritic sediments trend northwesterly adjacent to Fournier and Spider Lakes in the central area of the township.

Small isolated outcrops of mafic volcanics have been mapped along the south boundary of the township.

Leonard Township was mapped by the OGS in 1972 and published as GR146, Geology of Fawcett and Leonard Townships by M. W. Carter, 1977.

LINECUTTING PROGRAM 1996

Roy Annett and the writer cut an east-west baseline across the property on May 31, 1996 with the hub centered on the showing. The baseline extended 400 feet to the east and 1200 feet west from this hub. Lines were turned off the central baseline at 200 feet intervals and flagged at chainage markers every 100 feet to the north and south. Total flagged lineage was 1.97 miles.

MAGNETOMETER SURVEY

On June 1 and 2, 1996 Annett and the writer carried out magnetometer

and VLF-EM surveys over the flagged grid and baseline with Annett taking the magnetometer readings and Tindale the VLF-EM.

A GEM GSM-8 proton magnetometer tuned to a base magnetic value of 58000 gammas and owned by J. L. Tindale & Associates Inc. of Toronto was utilized for the survey.

The survey outlined the trace of a diabase dike which meanders roughly northwesterly across the property and was confirmed as diabase by an outcrop south of the baseline at 2W, 2+00 south. The dike is characterized by positive values within an otherwise predominantly negative field of values.

As noted, the remainder of the survey value is moderately flat and monotonous with no anomolous values of significance. An uncounted edition of the Magnetometer Survey at a scale of 1" = 200 feet is attached to this report.

VLF-EM SURVEY

The survey was conducted over the flagged grid utilizing a Geonics EM-16 tuned to Cutler, Maine, with the operator facing north for all readings. Values were recorded at 100 foot intervals along the lines and plotted on the accompanying maps as inphase and quadrature on the left and right of the lines respectively. Profiles were then constructed. A second compilation illustrating Fraser filter values is also presented.

A series of crossovers were plotted to the north of the showing area more or less following the trace of an east-west trending swamp. Fraser-filtering moved this anomolous trend southerly to a position 300 feet north of the showing area but still within the outline of the low swampy ground.

A second series of moderate crossovers occurs near the south boundary of the claim block about 500 feet from the showing area. These anomolies are in sand covered topography and their cause uncertain.

DDH LEN 96-1
-45°
Az 20°



ASSAY RESULTS

Sample No.	Ag ppb	Ag ppm	Cu %	Pb %	Zn ppm %
387	0.01	0.2	0.01	0.01	0.02
388	0.005	0.1	0.01	0.005	0.01
389	N.I	0.1	0.01	0.01	0.03
390	N.I	1.1	0.01	1.01	0.16
391	0.01	0.4	0.01	0.07	0.19
392	0.01	0.01	0.01	0.01	0.02
393	0.02	0.3	0.005	0.01	0.01
394	0.02	3.7	0.10	0.05	0.02
395	0.01	0.1	—	—	—
396	N.I	0.3	0.005	0.02	0.06
397	0.05	0.6	0.02	0.01	0.11
398	0.01	3.2	0.01	0.04	0.09
399	N.I	0.3	0.005	0.02	0.05
400	0.02	0.4	0.005	0.01	0.01
1984	N.I	0.3	0.01	0.06	0.0080.19

ANNETT SAALO TINDALE PROPERTY

LEONARD TOWNSHIP
CLAIM # 1191310

PROFILE DDH LEN 96-1

SCALE 1" = 50'

NOV. 1996 FIGURE No. 3 J.I.T.

GEOLOGICAL MAPPING

The showing area is underlain with a layered sequence of mafic pillow lavas, cherty interflow sediments, cherty tuffaceous pyroclastics and grey coarse grained feldspar porphyry. These rocks have been well foliated and sheared in a northwesterly direction. Carbonate and chlorite alteration products are pervasive in the main mineralized areas and less intense to the margins. Fine grained sphalerite and galena is disseminated throughout the showing area accompanied by quartz-carbonate veining. The veins often contain large inclusions of galena, sphalerite and chalcopryrite. Traces of cobalt bloom were noted near the baseline hub.

To the north and south of the main base metal showings pyrite and pyrrhotite disseminations and veinlets are common in less altered pillowed mafic volcanics.

West of the showings and along strike outcrops of large fragment pyroclastics are noted mixed with porphyritic flows. Fragments are sharp sided felsic blocks up to 18 inches across within a dark green fine grained chlorite-rich matrix.

The band of felsic to mafic volcanics intermixed with pyroclastics and cherty interflows appears to be approximately 500 feet wide and is sulphide-rich with pyrite and pyrohitite blebs and disseminations common. To the south of this band isolated outcrops of relatively unaltered pillowed lava were noted on line 7W though some quartz stringers were evident.

DIAMOND DRILL PROGRAM

Salo Drilling of Connaught, Ontario was contracted to drill a single hole below the showing area in October of 1996. The hole LEN 96-1 was collared at 0+20W, 0+50S and drilled 307 feet at an azimuth of 20° and a dip of 45°. BQ size core was recovered. The core is racked at Roy Annett's residence in Shining Tree and was logged and sampled by the writer and Annett on October 18 and 20, 1996.

The hole collared in mafic pillowed volcanics with whisps and veinlets

of quartz-carbonate randomly oriented throughout. Traces of sphalerite and galena were noted along vein edges.

At 70 feet the hole entered a sequence of cherty metasediments and pyroclastics heavily ribboned and veined with quartz-carbonate veinlets and gash features. Traces of black graphite was noted on shear planes. Shearing and chlorite alterations was evident from 109 - 139 feet. Sphalerite and galena often as a very fine dusting through the sheared section was evident. Blebs and streaks of honey-brown sphalerite was common along vein edges. Assay values were disappointingly low with zinc averaging less than 0.1% over a 30 foot interval. The best assay for lead was 1.1% Pb over a 4.3 foot interval where large crystals of galena occurred in a quartz-carbonate veins.

Below 139 feet in the hole rock types varied from pillowed mafic volcanics to cherty metasediments and tuffaceous sediments. Fine powdery pyrite and streaks of pyrrhotite are common throughout the interval to the end of the hole. Chert, often as beige to brown bands is present in the sediments throughout.

Taken as a whole the geological sequence presented by Hole LEN 96-1 is reminiscent of exhalative volcanogenic terrain. Sulphide mineralization is present as pyrite and pyrrhotite throughout the interval tested. Economic sulphide in the form of chalcopyrite, galena and sphalerite while low grade and vein controlled in the most part is present over an 80 foot core length. Felsic rocks in the form of feldspar porphyry is present. The total package is encouraging for the development of a VMS-style occurrence either along strike or further to the north below the swamp covered area where a strong VLF-EM anomaly is unexplained.

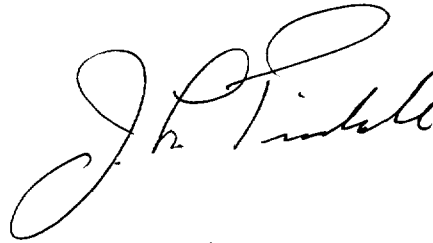
CONCLUSIONS AND RECOMMENDATIONS

The diamond drill hole LEN 96-1 should encourage the prospectors to continue exploration for base metal mineralization to the northwest and south-east of their tested area. The exhalative style geology is the type required to host massive sulphide deposits in the Abitibi Region and should be followed by prospecting to the north, northwest and southeast into relatively virgin areas. This area of Leonard and North Williams Townships has seen little to

no prospecting for this type of deposit in the past and this oversight could prove helpful in attracting a partner to further the exploration.

One drawback to the area is the dearth of outcrop due to sand plain overburden. Geophysical methods will be required to define future drill targets in much of the area along strike from the known showings. Felsic volcanics in the form of rhyolites and pyroclastics should be searched for associated with the described geology of the claim block.

Respectfully submitted,

A handwritten signature in cursive script, appearing to read "J. L. Tindale". The signature is written in black ink and is positioned above the typed name.

J. L. Tindale, B. Sc.
Geologist

SELECTED REFERENCES

1. Carter, M. W. Geology of Fawcett and Leonard Township;
 Geoscience Report 146, 1977

2. Resident Geologist Files; Cobalt, Ontario

3. ODM Map 2046 Timmins - Kirkland Lake Sheet, 1964

4. ODM Map 2188 Sudbury - Cobalt Sheet, 1971

APPENDIX NO. 1

LOG OF DIAMOND DRILL HOLE LEN 96-1
AND
ASSAY SHEET

DIAMOND DRILL RECORD

NAME OF PROPERTY ROY ANNETT'S LEONARDO TISSA
 HOLE NO. LEN 96-1 LENGTH 307'
 LOCATION Claim 1191310 LEONARDO TOWNSHIP
 LATITUDE 0750S DEPARTURE 0720W
 ELEVATION Base Level AZIMUTH 20° DIP -45°
 STARTED OCT 3/96 FINISHED OCT 7/96

FOOTAGE	DIP	AZIMUTH	FOOTAGE	DIP	AZIMUTH

HOLE NO. LEN 96-1 SHEET NO. 1

REMARKS BQ Core

Core stored at Roy Annett's in Shining Tree

LOGGED BY J.L. TINDALE

FOOTAGE		DESCRIPTION	SAMPLE			ASSAYS						
FROM	TO		NO.	% SULPHIDES	FOOTAGE		Cu %	Pb %	Au oz/TON	Ag oz/TON	Zn %	
					FROM	TO						TOTAL
0	16	Casing										
16	30.3	Pillowed mafic volcanics; dk. gy to dk. gn; fine to med. gr. di. white to yellowish white gtz. carb vein filling of fractures and shearing; shearing and foliation weak apparently 45° to core axis; epidote and feldspar rims around veinings and selvages (?); trace cubic pyrite; minor hematite on slips.										
30.3	37.8	Chilled Diabase contacts and altered mafic volcanics; hole appears to pierce along a small diabase dyke. Chlorite and calcite rich patches in v. with trace pyrite.										
37.8	69.7	Pillowed mafic volcanics; dk. gn to dk. gn. gy; fine to med. gr. epidote and pink feldspar rims around rare foliated selvages; occasional white to yellowish wh. gtz. carb veins at 45° with minor flecks and xls of sphalerite (honey colour) and galena; trace pyrite; minor bleaching of vein borders (1-2") vein 1/2" to 1"; some flat gtz. carb @ 10°-20° also w/ galena; poor foliation.										
		@ 42.0-46.2 Flat dipping 1" wh. gtz. carb vein near core along interval with traces ZnS, PbS, pyrite, etc. cry.	387	T-	42.0	46.2	4.2	0.01	0.01	0.01	0.2	0.02
		@ 46.2-51.1 mafic v. with minor gtz. carb gash fills with traces ZnS, PbS, py; minor chlorite alteration	388	T-	46.2	51.1	4.9	0.01	0.005	N/I	0.1	0.01
		@ 51.1-56.2 as above with 2, 4-1/2" sharp gtz. carb veins with trace of ZnS, PbS, py.	389	T-	51.1	56.2	5.1	0.01	0.01	N/I	0.1	0.03
		NOTE: Sulphide Zn, Pb, Cu only in gtz. carb vein over this section.										

DIAMOND DRILL RECORD

NAME OF PROPERTY POYFINNEY LEONARD TWSR
 HOLE NO. L-96-1 SHEET NO. 2

FOOTAGE		DESCRIPTION	SAMPLE			Cu	Pb	ASSAYS		Ag	Zn			
FROM	TO		NO.	% SULPH	FOOTAGE			%	%			g/TON	g/TON	
					FROM									TO
69.7	97.7	Cherty banded metasediment; brecciated in part and healed with wh. calcite, and grey cherty gtz veinlets; fine grained, some small (1/4-1/2") fragments in matrix; overall dk grey to pur grey with minor bleaching around chert lenses; chert bands are sometimes steep (2-3" across @ 70° in wh calc filled gash fractures, often with holes and semi-massive galena; sphalerite is common as disc in veins, minor in wall rock; some blotches of pyrite, replacement fragments (?); traces pyrite down hole, more common. Chert often brown coloured. Chert is 10% frack; calc & gte each 2%.												
		@69.7-74.0 Brown pinkish chert and greggs beds with 3% white calc and purple gash veins and stars w ZnS, PbS; "heat zone";	390	1%	69.7	74.0	4.3	0.01	1.01	N/I	1.1	0.16	I.C.P.	
		@74.0-78.9 Greggs, brownish metased. (stas.) cherty, grey gte. often with honey coloured sphalerite along edges of veins, stringers @ 30°±. Much less chert than above. Traces dis. py, cpy.	391	7%	74.0	78.9	4.9	0.01	0.07	0.01	0.4	0.19		
		@78.9 - 83.2 Appears to be mixing in black graphitic interflow sed and greggs sed, some chert bands, pyrite, as disc and replacement blotches; random whippy stringer veinlets, calcite, gte each @ 20" and 40"; more to 2-5, PbS. Note: Last 15' of interval soft, unconsolidated.	392	7%	78.9	83.2	4.3	0.01	0.01	0.01	0.2	0.02		
97.7	103.5	metasediment; dk gn, volcanic, rounded clasts rare, fine grained, porphyritic in part, occasional whippy fracture fillings of wh gte-camb, yellowish in part, 1- py.												
103.5	109.3	Interflow cherty sediment bands, black, fig, with some volc. sed, pyrite streaks along bedding planes, bedding planes @ 45°, gash filled calcite features; stringers random, wh calc, minor gte each; appears g-graphitic on string fracture surface. * See sampling on page 5	396	7%	103.5	107.0	3.5	0.005	0.02	N/I	0.3	0.06		
			397	1	107.0	109.3	2.3	0.02	0.01	0.05	0.6	0.11		

DIAMOND DRILL RECORD

NAME OF PROPERTY Ruby Project 77 (Leonard Trust)
 HOLE NO. LEN 96-1 SHEET NO. 3

FOOTAGE		DESCRIPTION	SAMPLE			ASSAYS						
FROM	TO		NO.	% SULPHIDES	FOOTAGE			Cu	Pb	Ag		Zn
					FROM	TO	TOTAL			02 TON	01 TON	
									g	g	%	
109.3	137.8	<p><u>Altered tonalite</u>; shear (?) ; good foliation; grey to gn gtz; heavily veined and mottled with calcite and gtz; quartzenous matrix; traces pyrite; some cherty blue gtz; pronounced CE of foliation 30°.</p> <p>@ 118.0-119.0 Grey wh. calcite @ 30°; some grey gtz, little sulph.</p> <p>@ 124.0-126.5 Grey white, blotchy, massive gtz vein @ 35°; some streaks of pyrite;</p> <p>* See additional samples page 5</p>	398	Tr	109.3	114.4	5.1	0.01	0.04	0.01	3.2	0.09
			399	2	114.4	118.0	2.6	0.005	0.02	N/I	0.3	0.05
			393	—	118.0	119.0	2.0	0.005	0.01	0.02	0.3	0.01
			400	2	119.0	124.0	5.0	0.005	0.01	0.02	0.4	0.01
			394	Tr	124.0	126.5	2.5	0.10	0.05	0.02	3.7	0.02
			1984	1	126.5	137.5	5.0	0.01	0.06	N/I	0.3	0.19
139.8	2030	<p><u>Pillowed mafic volcanics</u>; dk gtz to dk gtz; fgtz; slightly porphyritic with white ptens (possible vesicles); epidote common as selvages; white calcite, gtz-matrix, stringers @ 75° along shear foliation; traces pyrite along fracture planes and minor dikes; fairly hard</p>										
203.0	213.0	<p><u>Feldspar porphyry dikes</u>; feldspar laths in gtz matrix; altered surface; some stringers; blends into adjacent rock types; trace, pyrite; minor gtz-matrix veinings @ 45°</p>										
213.0	219.0	<p><u>Cherty meta-sediment</u>; brown to grey chert, some black, in alluvial with sediment; bedding @ 45°, whiter white gtz-matrix in filling, good fractures and along bedding. Trace pyrite</p>	395	Tr	213.0	219.0	6.0			0.01	0.1	
219.0	264.0	<p><u>Micaceous Sediment</u>; massive; fine-grained, dk gtz, gn gtz; some random gtz chert calc veinlets; wh gtz-matrix, calc; poorly foliated @ 45°; pyrite occurs with some of the veinlets</p>										

DIAMOND DRILL RECORD

NAME OF PROPERTY Ray Annett Leonard 7247
 HOLE NO. LEN 96-1 SHEET NO. 4

FOOTAGE		DESCRIPTION	SAMPLE				ASSAYS				
FROM	TO		NO.	SULPH IDES	FOOTAGE			%	%	OZ TON	OZ TON
					FROM	TO	TOTAL				
264.0	275.5	Pillowed mafic volcanic; dk gn; med gnd; epidote rich in sections and around fractures; minor glaucophane and red feldspar porphyroblasts as fracture fills @ 45°; pyrite clasts with some of veinlets									
275.5	293.5	Cherty sediment; gy brown, u. sig; fractures infilled with white to pink cherty siliceous qtz; some 1/2" clear to gy wh sharp qtz veins @ 45°; irregular splashed reddish brown feldspar; occasional blebs of pyroxenite in well rock; fine powdery pyrite along fractures									
293.5	307	Pillowed mafic volcanic; dk gn; med gnd; glaucophane veins rare as stone and fracture fills @ 45°; traces of epidote with veinings to dark pyrite. <u>END hole @ 307'</u>									

J.P. Smith
 Oct-18, 1996

DIAMOND DRILL RECORD

NAME OF PROPERTY ROY ANNETT LEONARD TWP.
 HOLE NO. LEN 96-1 SHEET NO. 5

FOOTAGE		DESCRIPTION	SAMPLE			ASSAYS						
FROM	TO		NO.	% SULPHIDES	FOOTAGE		Cu	Pb	Au		Zn	
					FROM	TO			TOTAL	%		%
<i>Additional sampling on Oct. 20, 1996</i>												
	103.5-107.0	Black to brown chert in an interflow sediment, partly graphitic, streaks of pyrite common along fractures and in minute wh. calc. veins; traces ZnS, PbS also mainly in white whispy calc. fracture fills or as smears along shear planes	396	Tr	103.5	107.0	3.5	0.005	0.02	Nil	0.3	0.06
	107.0-109.3	Similar to above, more graphitic sediment, cherty, some splashes cpd, pyrite common with ZnS, PbS as above	397	1	107.0	109.3	2.3	0.02	0.01	0.05	0.6	0.11
	109.3-114.4	Poorly altered, carbonate-rich, looks like mafic volc., whispy wh. calc veins; traces PbS, ZnS, py in veinlets and along fractures	398	Tr	109.3	114.4	5.1	0.01	0.04	0.1	3.2	0.09
	114.4-117.0	Sheared, chlorite-rich, carbonate-rich, alt. zone, finely dis. py, ZnS, PbS along fractures and in wall rock, 10% gte-carb whispy veinlets, veins and fracture fills;	399	2	114.4	117.0	2.6	0.005	0.02	Nil	0.3	0.05
	117.0-119.0	Sample described page 3										
	119.0-124.0	Good dis. PbS, ZnS as fig. dust around fragments and in wall rock around veins, also in carb-gte veins; 10% gte-carb veins in section; brecciated in part with angular fragments; mass creamy grey chert vein 1-2" wide @ 90° and 45°; pyrite common	400	2	119.0	124.0	5.0	0.005	0.01	0.2	0.4	0.01
	124.0-126.5	Sample described page 3										
	126.5-131.5	Alt. lessens, still carb rich, 3-5% gte-carb veinlets and ash fills, traces pyrite, ZnS, PbS; minor creamy br. chert bands, irregular up to 1"	1984	Tr	126.5	131.5	5.0	0.01	0.06	Nil	0.3	0.19

J. L. Taitel

ANGRIDGES - TORONTO - 366-1168



Swastika Laboratories

A Division of TSL/Assayers Inc.

Assaying - Consulting - Representation

Established 1928

Assay Certificate

6W-4509-RA1

Company: **R. ANNETT**

Date: NOV-07-96

Project:

Attn: **R. Annett**

We hereby certify the following Assay of 15 Core samples submitted OCT-22-96 by .

Sample Number	Au g/tonne	Au Check g/tonne	Ag g/tonne	Cu %	Pb %	Zn %	Multi Element
387	0.01	-	0.2	0.01	0.01	0.02	Results to follow
388	Nil	-	0.1	0.01	0.005	0.01	
389	Nil	-	0.1	0.01	0.01	0.03	
390	Nil	-	1.1	0.01	1.01	0.16	
391	0.01	-	0.4	0.01	0.07	0.19	
392	0.01	0.01	0.2	0.01	0.01	0.02	
393	0.02	-	0.3	0.005	0.01	0.01	
394	0.02	-	3.7	0.10	0.05	0.02	
395	0.01	-	0.1	-	-	-	
396	Nil	-	0.3	0.005	0.02	0.06	
397	0.05	0.04	0.6	0.02	0.01	0.11	
398	0.01	-	3.2	0.01	0.04	0.09	
399	Nil	-	0.3	0.005	0.02	0.05	
400	0.02	-	0.4	0.005	0.01	0.01	
1984	Nil	-	0.3	0.01	0.06	0.19	

One assay ton portion used.

Certified by

ROY ANNETTE

TSL/ASSAYERS Laboratories

1270 FEWSTER DRIVE, UNIT 3 MISSISSAUGA, ONTARIO L4W-1R4

PHONE #: (905)602-8236

FAX #: (905)206-0513

REPORT No. : M8259

Page No. : 1 of 1

File No. : NV05MR

Date : NOV-08-1996

I.C.A.P. PLASMA SCAN

Aqua-Regia Digestion

6W-4509-RA1

SAMPLE #	Ag	Al	As	B	Ba	Be	Bi	Ca	Cd	Co	Cr	Cu	Fe	Mg	Mn	Mo	Ni	P	Pb	Sb	Se	Sn	Sr	Tl	V	W	Y	Zn	Zr	
	PPM	%	PPM	PPM	PPM	PPM	PPM	%	PPM	PPM	PPM	PPM	%	%	PPM	PPM	PPM	PPM	PPM	PPM	PPM	PPM	PPM	PPM	PPM	PPM	PPM	PPM		
390	1	2.4	40	< 10	11	< 1	< 5	3.3	< 1	36	160	100	5.9	2.7	650	< 2	0.05	52	860	9999	< 5	12	< 10	10	1200	110	< 10	10	1600	5
395	< 1	1.5	5	< 10	45	< 1	< 5	2.3	< 1	20	150	60	4.5	0.91	480	< 2	0.04	15	610	78	< 5	4	< 10	11	1200	55	< 10	8	250	13

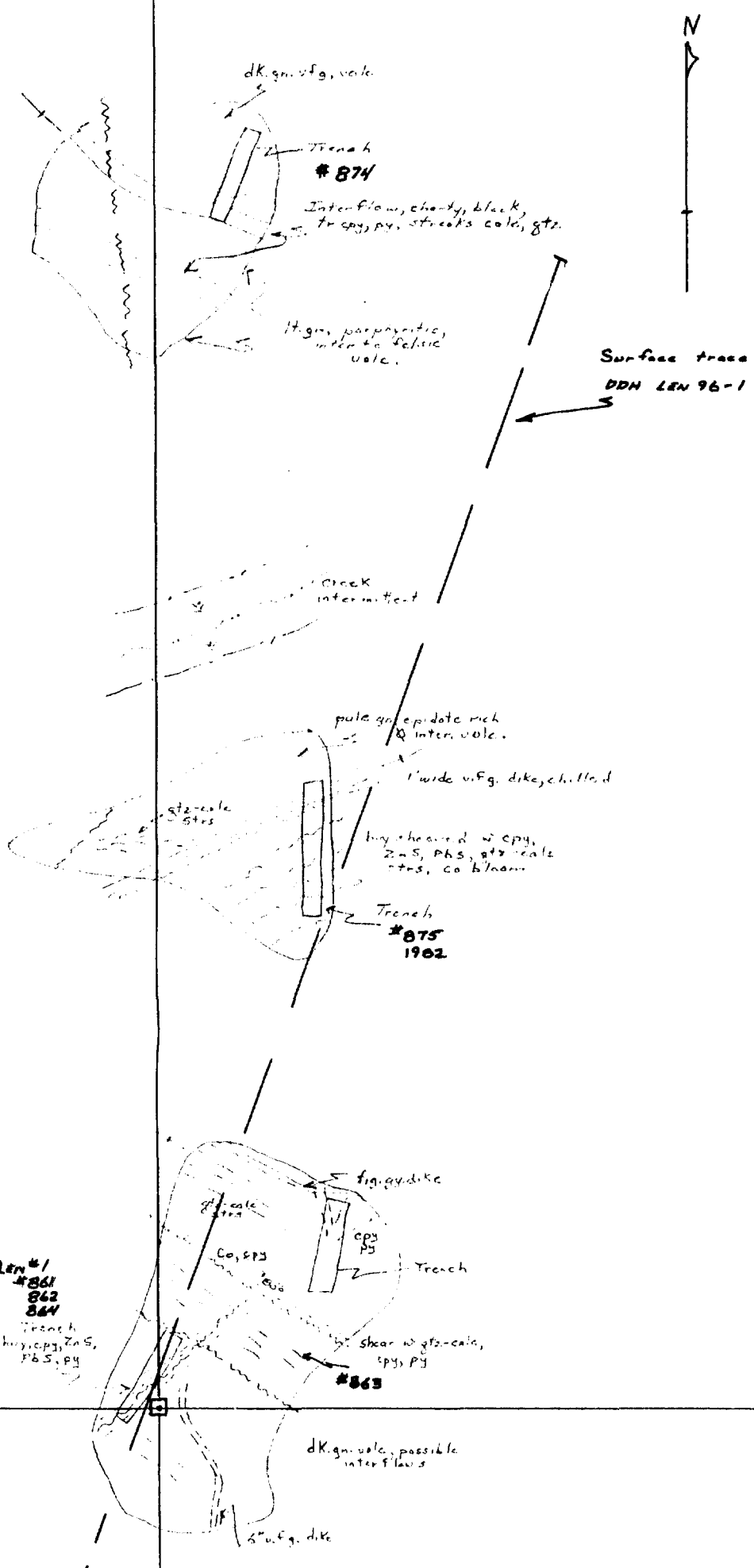
0.5 gm sample is digested with 2 ml of 3:1 HCl/HNO3 at 95 C for 90 min and diluted to 10 ml with 10 M2O. This method is partial for many oxide materials.

TSL/SS

SIGNATURE

[Handwritten Signature]

TSL/SS



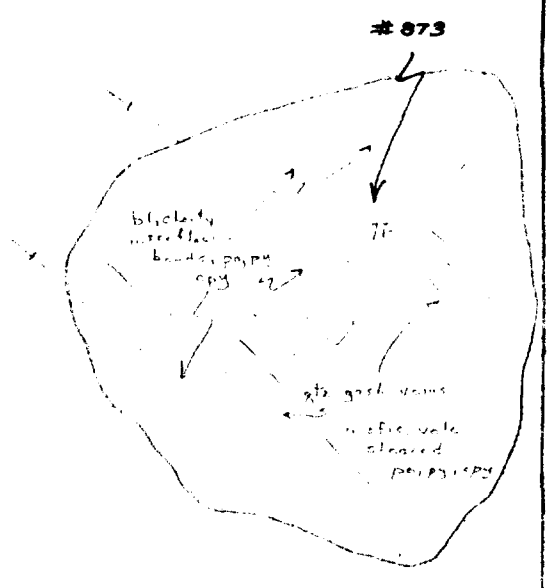
ANNETT SALD TINDALE PROP.
 LEONARD TOWNSHIP
 CL # 1191310
 STRIPPING, TRENCHING SKETCH
 1" = 20'
 JUNE 17 1996 JLT.

LEN #1
 #861
 #862
 #864
 Trench
 hvy. spg, Zn S,
 Pb S, py

Co. No. DDH
 LEN 96-1
 -45°
 307'

ASSAY RESULTS (ppm, ppb, %)

Sample No.	Au	Ag	Cu	Pb	Zn	Co
861	7	10	8700	2400	4700	
862	8	10	5300	2.95%	1.10%	
863	6	4	490	140	56	150
873	3	2.7	1691	5491	467	
874	13	2	153	1	190	
875	11	1	>10000	8	175	
1982	8	10	908	4860	5712	
LEN #1	5	2	628	6220	8360	
864	3	2	1691	5491	7060	32

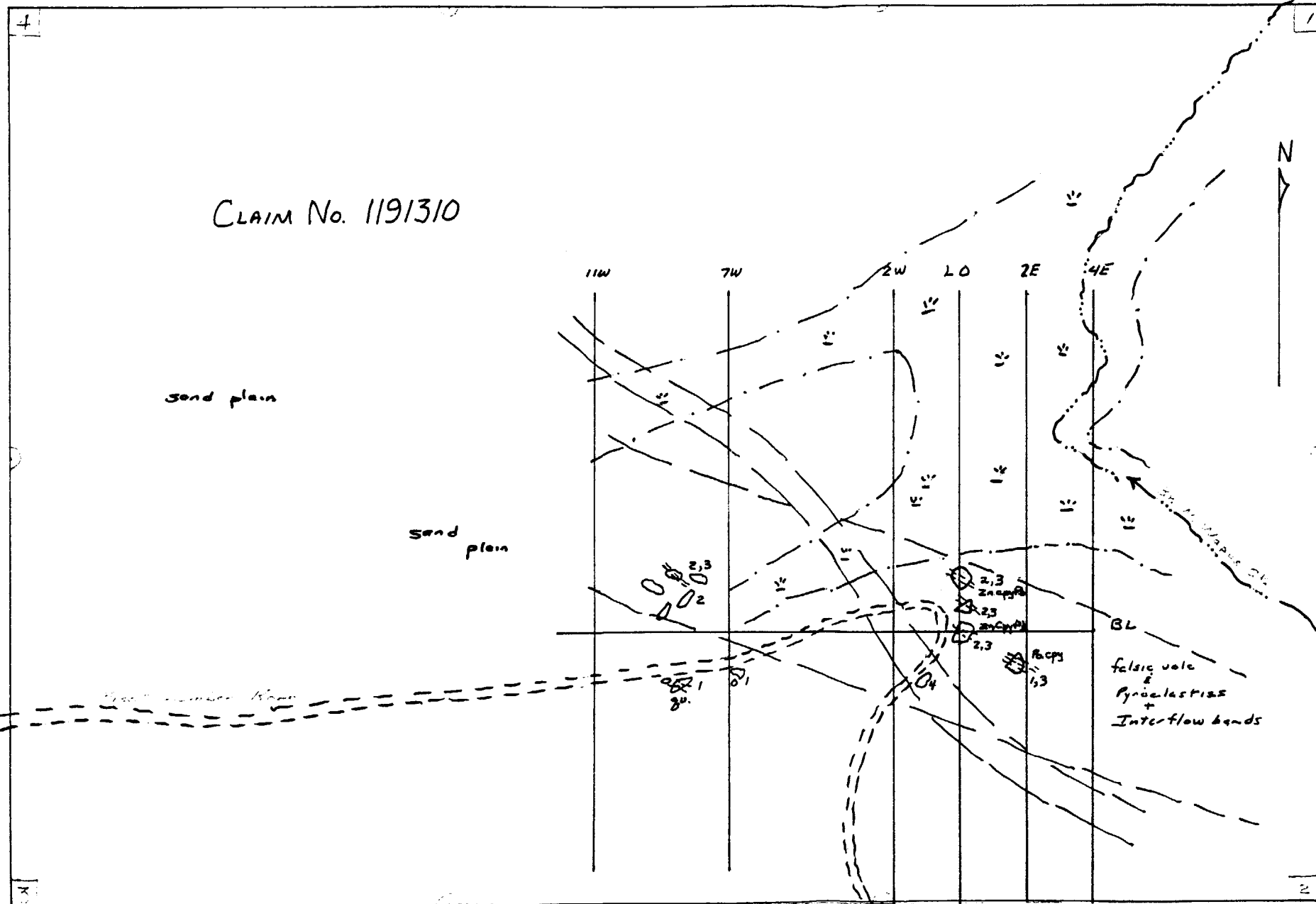


LO

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RECEIVED
MAY - 1 1997
MINING LANDS BRANCH

CLAIM No. 1191310



LEGEND

- 4 Diabase dike
- 3 Metasediments
Cherty, interflows
- 2 Felsic Metavolcanics
Rhyolite - Rhyodacite
Porphyritic flows, Breccia, Pyroclastics
- 1 Apatite Metavolcanics
P. Acid flows

SYMBOLS

- outcrop
- road
- ≡ Swamp
- - - edge swamp
- ~ ~ ~ creek
- Claim, line, post
- Geological Trend

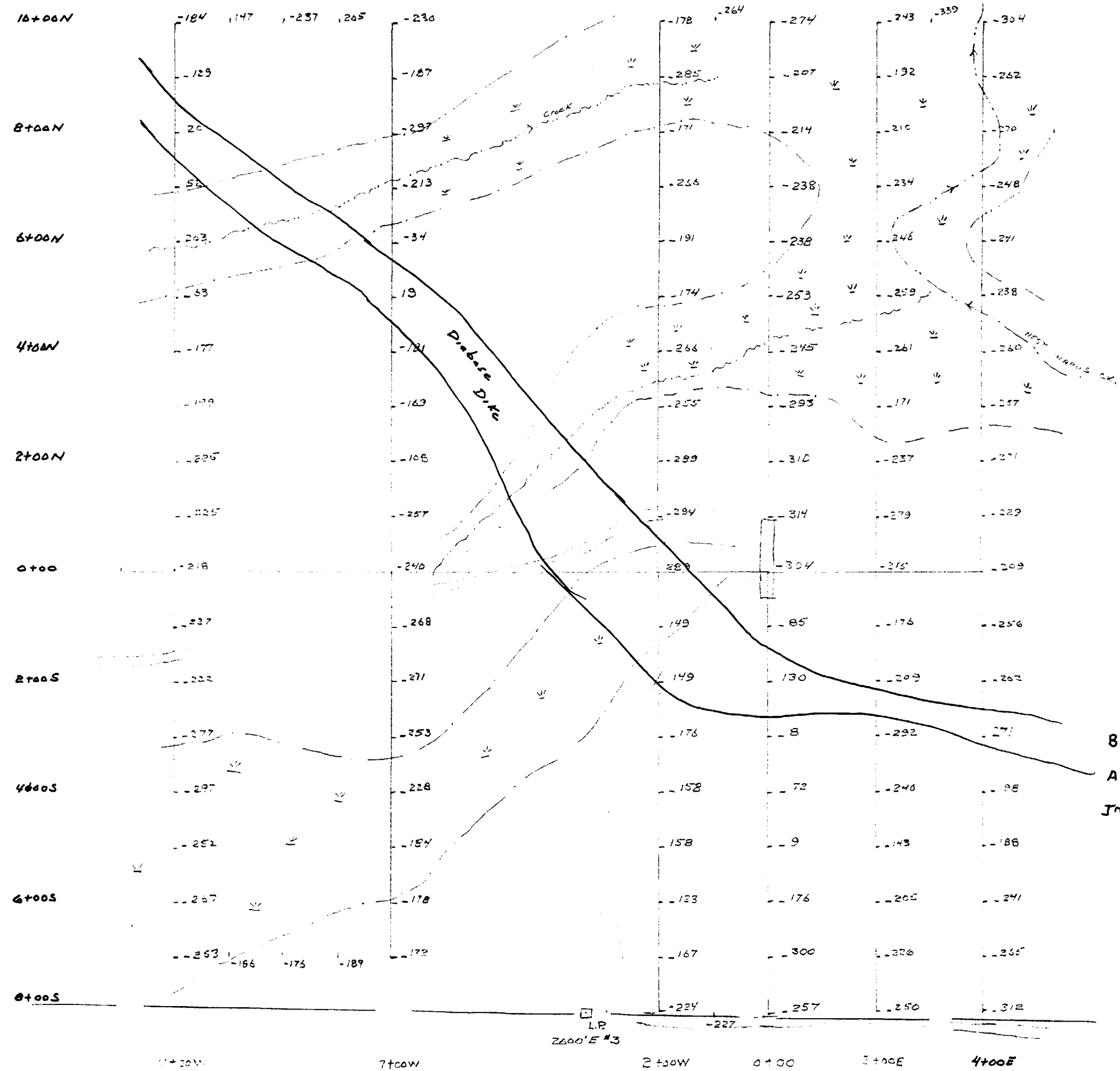
To Norman Lake

felsic volc
Pyroclastics
Interflow bands

ANNETT SAUD TINDALE PRDP.
LEONARD TOWNSHIP
CL. #1191310
GEOLOGICAL MAPPING
1" = 400'
JUNE 17, 1996

MAP No. 2

J.L.T.



L E G E N D

110 Value in gammas

Base magnetic value 58000 gammas

All readings corrected for diurnal variations

Instrument: GEM GSM-8 Proton Magnetometer

ANNETT SALO TINDALE PROP.

LEONARD TOWNSHIP

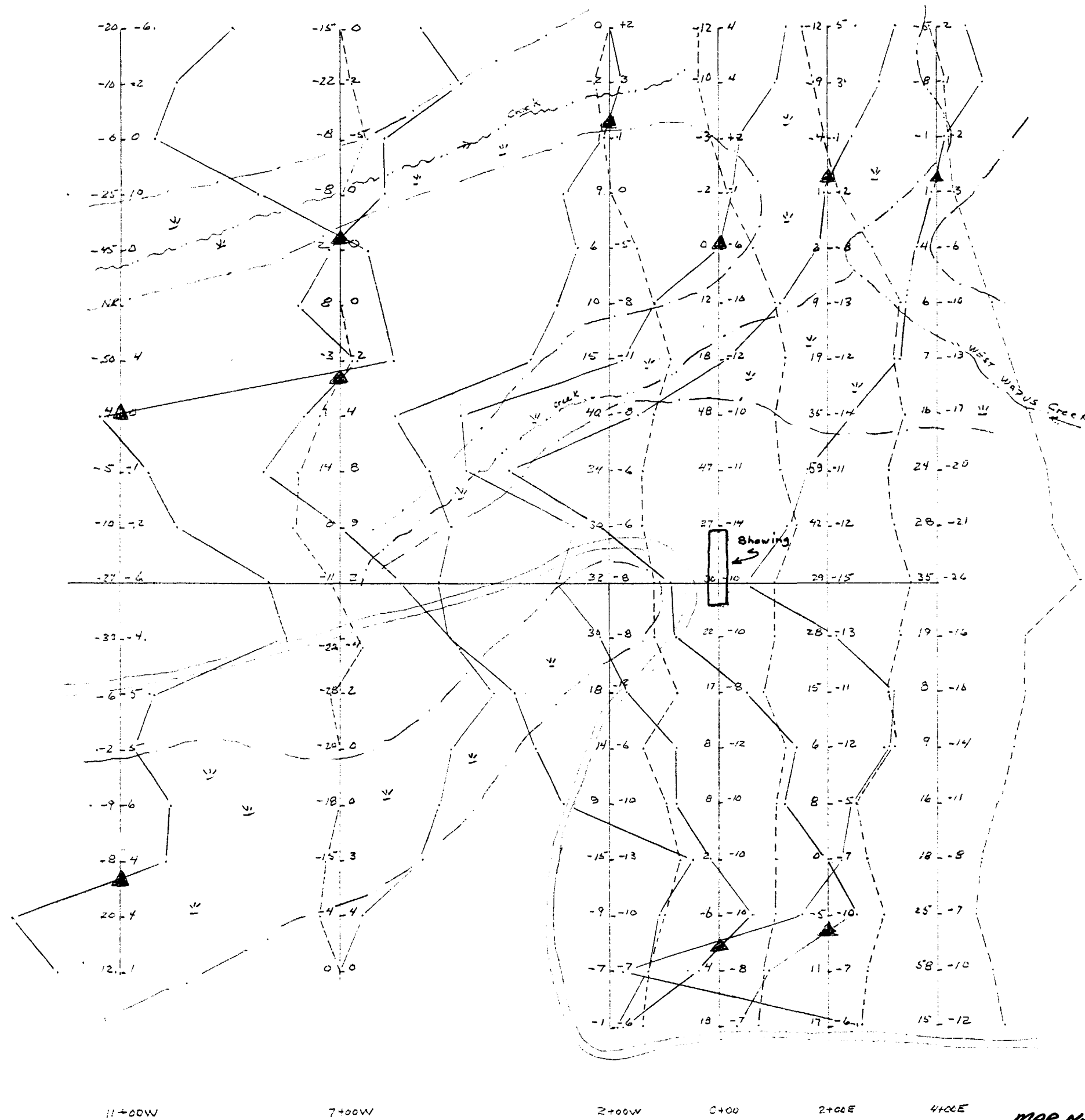
CL# 1191310

MAGNETOMETER SURVEY

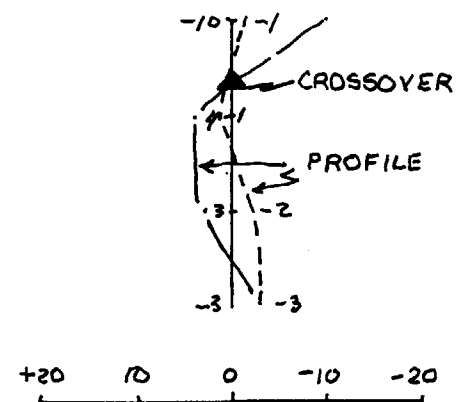
1" = 200'

JUNE 17, 1996 J.L.T.

MAP No. 3



IN PHASE READING QUADRATURE READING



Geonics VLF-EM16
 Station: Cutler, Maine
 Operator facing north

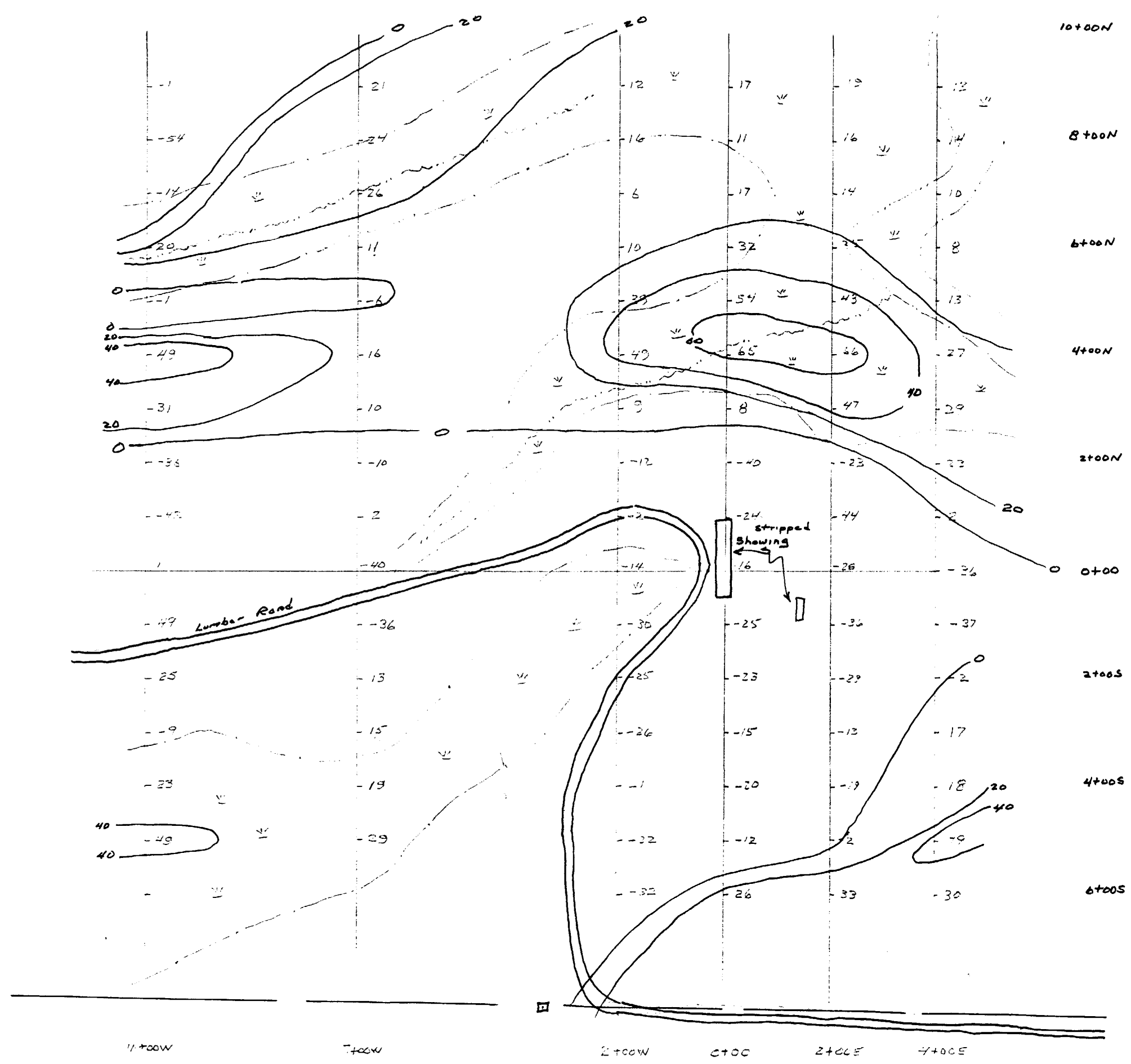
- LEGEND**
- Base & Control lines
 - 40 I.P. reading
 - 30 Quad reading
 - I.P. reading plot
 - Quad reading plot
 - ▲ VLF Crossover
 - ~ Swamp outline
 - ⋈ Swamp
 - ~ ~ ~ Creek
 - == Road
 - Claim Post
 - Claim Line

ANNETT SALO TINDALE PROPERTY

LEONARD TOWNSHIP
 CI. # 1191310
 V.L.F. PROFILES

1" = 200'

JUN 17, 1996 J.L.T.



10+00N
8+00N
6+00N
4+00N
2+00N
0+00
2+00S
4+00S
6+00S

- LEGEND**
- Base & Control lines
 - Fraser Filter values
 - Contoured Fraser Filter
 - Swamp outline
 - ≡ Swamp
 - ~ Creek
 - ≡ Road
 - Claim Post
 - Claim Line

ANNETT SALO TINDALE PROPERTY

LEONARD TOWNSHIP
C.I. # 113110

CONTOURED V.L.F. SURVEY
FRASER FILTER METHOD

1" = 200'

JUNE 17, 1996

MAP No. 5

J.L.T.



Declaration of Assessment Work Performed on Mining Land

Mining Act, Subsection 65(2) and 66(3), R.S.O. 1990

Transaction Number (office use) 9780 00309 Assessment Files Research Imaging

Personal information Mining Act, the info Questions about 933 Ramsey Lake



and 66(3) of the Mining Act. Under section 8 of the act work and correspond with the mining land holder. of Northern Development and Mines, 6th Floor.

900

2.17234

Instructions: - For work performed on Crown Lands before recording a claim, use form 0240. - Please type or print in ink.

1. Recorded holder(s) (Attach a list if necessary)

Form with fields for Name, Address, Client Number, Telephone Number, Fax Number for Roy Annett at Shining Tree Ontario P.O. Box 200.

2. Type of work performed: Check (✓) and report on only ONE of the following groups for this declaration.

Geotechnical: prospecting, surveys, assays and work under section 18 (regs) Physical: drilling, stripping, trenching and associated assays Rehabilitation

Work Type: Diamond Drilling, Linecutting, Geological Mapping, VLF-EM and Magnetometer Survey. Dates Work Performed: 31 05 96 to 18 11 1996. Mining Division: Larder Lake, Resident Geologist: Cobalt.

Please remember to: - obtain a work permit from the Ministry of Natural Resources as required; - provide proper notice to surface rights holders before starting work; - complete and attach a Statement of Costs, form 0212; - provide a map showing contiguous mining lands that are linked for assigning work; - include two copies of your technical report.

3. Person or companies who prepared the technical report (Attach a list if necessary)

Form with fields for Name, Address, Telephone Number, Fax Number for Jack Tinoble at 907-110 Erskine Ave, Toronto, Ontario M4P1Y4. Includes a RECEIVED stamp dated MAY - 1 1997 from MINING LANDS BRANCH.

4. Certification by Recorded Holder or Agent

I, Roy Annett, do hereby certify that I have personal knowledge of the facts set forth in this Declaration of Assessment Work having caused the work to be performed or witnessed the same during or after its completion and, to the best of my knowledge, the annexed report is true.

Signature of Recorded Holder or Agent: Roy Annett, Date: Nov 18 1996, Agent's Address, Telephone Number: 705-263-2054, Fax Number.

5. Work to be recorded and distributed. Work can only be assigned to claims that are contiguous (adjoining) to the mining land where work was performed, at the time work was performed. A map showing the contiguous link must accompany this form.

Mining Claim Number. Or if work was done on other eligible mining land, show in this column the location number indicated on the claim map.	Number of Claim Units. For other mining land, list hectares.	Value of work performed on this claim or other mining land.	Value of work applied to this claim.	Value of work assigned to other mining claims.	Bank. Value of work to be distributed at a future date.
eg TB 7827	16 ha	\$26,825	N/A	\$24,000	\$2,825
eg 1234567	12	0	\$24,000	0	0
eg 1234568	2	\$8,892	\$4,000	0	\$4,892
1 1191310	6	10404	9600	0	804
2					
3					
4					
5					
6					
7					
8					
9					
10					
11					
12					
13					
14					
15					
Column Totals		10404	9600	0	804

2.17234

I, Roy Annett (Print Full Name), do hereby certify that the above work credits are eligible under subsection 7 (1) of the Assessment Work Regulation 6/96 for assignment to contiguous claims or for application to the claim where the work was done.

Signature of Recorded Holder or Agent Authorized in Writing
Roy Annett

RECEIVED
MAY - 1 1997
MINING LANDS BRANCH

Date
Nov. 18, 1996

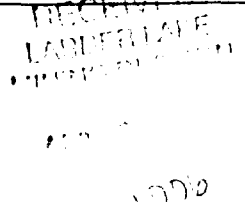
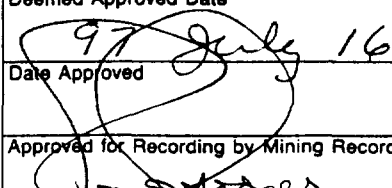

6. Instructions for cutting back credits that are not approved

Some of the credits claimed in this declaration may be cut back. Please check (✓) in the boxes below to show how you wish to prioritize the deletion of credits:

- 1. Credits are to be cut back from the Bank first, followed by option 2 or 3 or 4 as indicated.
- 2. Credits are to be cut back starting with the claims listed last, working backwards; or
- 3. Credits are to be cut back equally over all claims listed in this declaration; or
- 4. Credits are to be cut back as prioritized on the attached appendix or as follows (describe):

Note: If you have not indicated how your credits are to be deleted, credits will be cut back from the Bank first, followed by option number 2 if necessary.

For Office Use Only

Received Stamp 	Deemed Approved Date <u>97 July 16</u>	Date Notification Sent
	Date Approved 	Total Value of Credit Approved
Approved for Recording by Mining Recorder (Signature) 		

2.17234

Personal information collected on this form is obtained under the authority of subsection 6(1) of the Assessment Work Regulation 6/96. Under section 8 of the Mining Act, the information is a public record. This information will be used to review the assessment work and correspond with the mining land holder. Questions about this collection should be directed to the Chief Mining Recorder, Ministry of Northern Development and Mines, 6th Floor, 933 Ramsey Lake Road, Sudbury, Ontario, P3E 6B5.

Work Type	Units of Work <small>Depending on the type of work, list the number of hours/days worked, metres of drilling, kilometres of grid line, number of samples, etc.</small>	Cost Per Unit of work	Total Cost
Diamond Drillhole	307' includes Mob & Demob.	24.43/ft.	7500
Associated Costs (e.g. supplies, mobilization and demobilization).			
Analysis Swastika Labs	15 samples of core	1.62/ft.	498.68
Magnetometer Rental	2 days	25/day	50.00
GEOVICS VLF-EM	2 days	50/day	100.00
Transportation Costs			
	850 Km @ 0.30/Km	0.30/Km	255.00
Food and Lodging Costs			
			10404

RECEIVED
 Total Value of Assessment Work
 MAY - 1 1997
 MINING LANDS BRANCH

Calculations of Filing Discounts:

1. Work filed within two years of performance is claimed at 100% of the above Total Value of Assessment Work.
2. If work is filed after two years and up to five years after performance, it can only be claimed at 50% of the Total Value of Assessment Work. If this situation applies to your claims, use the calculation below:

TOTAL VALUE OF ASSESSMENT WORK x 0.50 = Total \$ value of worked claimed.

Note:

- Work older than 5 years is not eligible for credit.
- A recorded holder may be required to verify expenditures claimed in this statement of costs within 45 days of a request for verification and/or correction/clarification. If verification and/or correction/clarification is not made, the Minister may reject all or part of the assessment work submitted.

Certification verifying costs:

I, Roy Annett (please print full name), do hereby certify, that the amounts shown are as accurate as may reasonably be determined and the costs were incurred while conducting assessment work on the lands indicated on the accompanying Declaration of Work form as Recorded Holder I am authorized (recorded holder, agent, or state company position with signing authority) to make this certification.

Signature <i>Roy Annett</i>	Date Nov. 18, 1996
--------------------------------	-----------------------



July 9, 1997

Roy Spooner
Mining Recorder
4 Government Road East
Kirkland Lake, ON
P2N 1A2

Geoscience Assessment Office
933 Ramsey Lake Road
6th Floor
Sudbury, Ontario
P3E 6B5

Telephone: (705) 670-5853
Fax: (705) 670-5863

Dear Sir or Madam:

Submission Number: 2.17234

Status

Subject: Transaction Number(s): W9780.00309 Approval

We have reviewed your Assessment Work submission with the above noted Transaction Number(s). The attached summary page(s) indicate the results of the review. WE RECOMMEND YOU READ THIS SUMMARY FOR THE DETAILS PERTAINING TO YOUR ASSESSMENT WORK.

If the status for a transaction is a 45 Day Notice, the summary will outline the reasons for the notice, and any steps you can take to remedy deficiencies. The 90-day deemed approval provision, subsection 6(7) of the Assessment Work Regulation, will no longer be in effect for assessment work which has received a 45 Day Notice.

Please note any revisions must be submitted in DUPLICATE to the Geoscience Assessment Office, by the response date on the summary.

NOTE: This correspondence may affect the status of your mining lands. Please contact the Mining Recorder to determine the available options and the status of your claims.

If you have any questions regarding this correspondence, please contact Bruce Gates by e-mail at gates_b@torv05.ndm.gov.on.ca or by telephone at (705) 670-5856.

Yours sincerely,

A handwritten signature in black ink, appearing to read "Ron C. Gashinski".

ORIGINAL SIGNED BY
Ron C. Gashinski
Senior Manager, Mining Lands Section
Mines and Minerals Division

Work Report Assessment Results

Submission Number: 2.17234

Date Correspondence Sent: July 09, 1997

Assessor: Bruce Gates

Transaction Number	First Claim Number	Township(s) / Area(s)	Status	Approval Date
W9780.00309	1191310	LEONARD	Approval	July 04, 1997

Section:

12 Geological GEOL
14 Geophysical MAG
14 Geophysical VLF
10 Physical PDRILL

Correspondence to:

Mining Recorder
Kirkland Lake, ON

Resident Geologist
Kirkland Lake, ON

Assessment Files Library
Sudbury, ON

Recorded Holder(s) and/or Agent(s):

ROY ANNETT
SHININGTREE, ONTARIO

J. L. TINDALE & ASSOCIATES INC.

Suite 907-110 Erskine Avenue
Toronto, Ontario, Canada M4P 1Y4

Telephone
(416) 481-5781

April 15, 1997

2.17234

Mining Recorder
Ministry of Northern Development
and Mines
4 Government Road East
Kirkland Lake, Ont. P2N 1A2

Dear Sir:

Re: Assessment Filing
Roy Annett Property
Claim 1191310, Leonard Twp.

Enclosed two copies of our report describing geological and geophysical surveys and a diamond drilling program carried out on Roy Annett's property in Leonard Township during 1996.

Applicable forms and maps are appended.

Should you require further information regarding this filing please contact the writer.

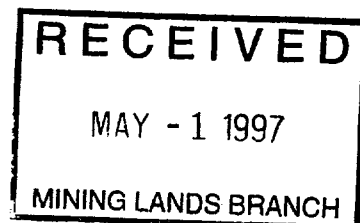
Yours very truly,

J. L. TINDALE & ASSOCIATES INC.



J. L. Tindale

encl.
cc: Roy Annett





2.17234



INDEX TO LAND DISPOSITION

M.N.R. ADMINISTRATIVE DISTRICT
KIRKLAND LAKE
MINING DIVISION
LARDER LAKE
LAND FILES REGISTRY DIVISION
TIMISKAMING

PLAN
G - 3668

TOWNSHIP
LEONARD

AREAS WITHDRAWN FROM DISPOSITION

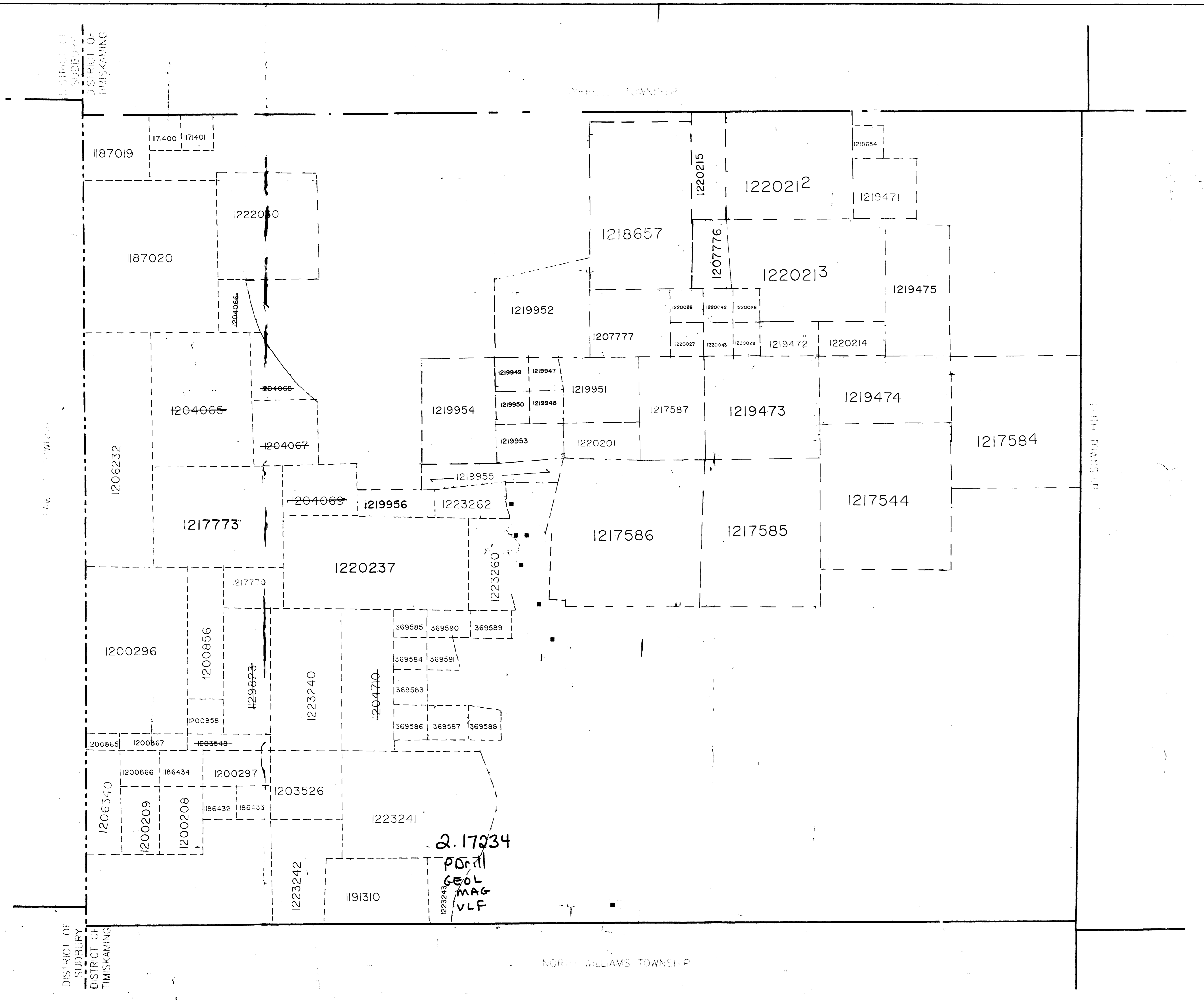
SYMBOLS



DISPOSITION OF CROWN LANDS



ARCHIVED SEPT. 19, 1996
CIRCULATED AUGUST 19, 1996



DISTRICT OF
SUDBURY
DISTRICT OF
TIMISKAMING

DYRELL TOWNSHIP

LEONARD TOWNSHIP

LEONARD TOWNSHIP

DISTRICT OF
SUDBURY
DISTRICT OF
TIMISKAMING

NORTH WILLIAMS TOWNSHIP