



42A13SE0069 2.9086 REID

010

KIDD CREEK MINES LTD.
GEOLOGICAL REPORT
CENTRAL REID TOWNSHIP PROPERTY
NTS: 42 A/12, 42 A/13

PROJECT # 204, REID CENTRAL CLAIMS
REID TOWNSHIP
ONTARIO

RECEIVED

APR 11 1986

MINING LANDS SECTION

APRIL, 1986

KEVIN OLSHEFSKY
Associate Geologist

SUMMARY AND CONCLUSIONS

On the Reid Central property, geological mapping (1:5000 scale), and lithogeochemical sampling were carried out on the 1985 cut grid. Outcrop represents less than 5% of the total area.

The Reid Central property is underlain in part by calc-alkalic mafic volcanics. Gabbro has intruded the volcanics.

RECOMMENDATIONS

The remainder of the claims should be gridded and geophysically surveyed during the summer of 1986. The surveys will provide both direct indications of mineralization and geological information on the strike and dip of units and location of faults.

An overburden drilling program is recommended along the southern limits of the Reid Central properties to provide information for assessing likely drill targets hosted by or associated with formational conductors.

Diamond drilling should commence in early 1987 to test geophysical, geochemical and geological targets defined by the 1985 and 1986 work.



42A13SE0069 2.9086 RE1D

010C

TABLE OF CONTENTS

	page
SUMMARY AND CONCLUSIONS	i
RECOMMENDATIONS	ii
INTRODUCTION	1
General Statement	1
LOCATION	1
ACCESS	3
TOPOGRAPHY	4
ACKNOWLEDGEMENTS	4
PREVIOUS WORK.....	5
RECENT WORK BY KIDD CREEK MINES LTD.	10

GEOLOGY	11
General Statement	11
Volcanic Stratigraphy	11
Mafic Pillow Breccia	11
Gabbroic Intrusives	12
 STRUCTURAL GEOLOGY AND METAMORPHISM	 13
 ECONOMIC GEOLOGY	 13

APPENDICES

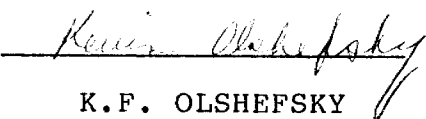
APPENDIX I	Diamond Drill Logs and Vertical Sections
 APPENDIX II	 Overburden Drill Logs by Gulf Minerals Canada Limited

LIST OF FIGURES

	page
FIGURE 1: Property Location Map	2
FIGURE 2: Compilation of Previous Work	6
FIGURE 3: 1:5000 Scale Geology Map (Back Pocket).....	

DECLARATION

I, Kevin Olshefsky, certify that I am a graduate of the bachelor of science honors program in geology from Acadia University, Nova Scotia in 1984. I have been practicing my profession since then, a total of two years.



K.F. OLSHEFSKY

Associate Geologist

INTRODUCTION

General Statement

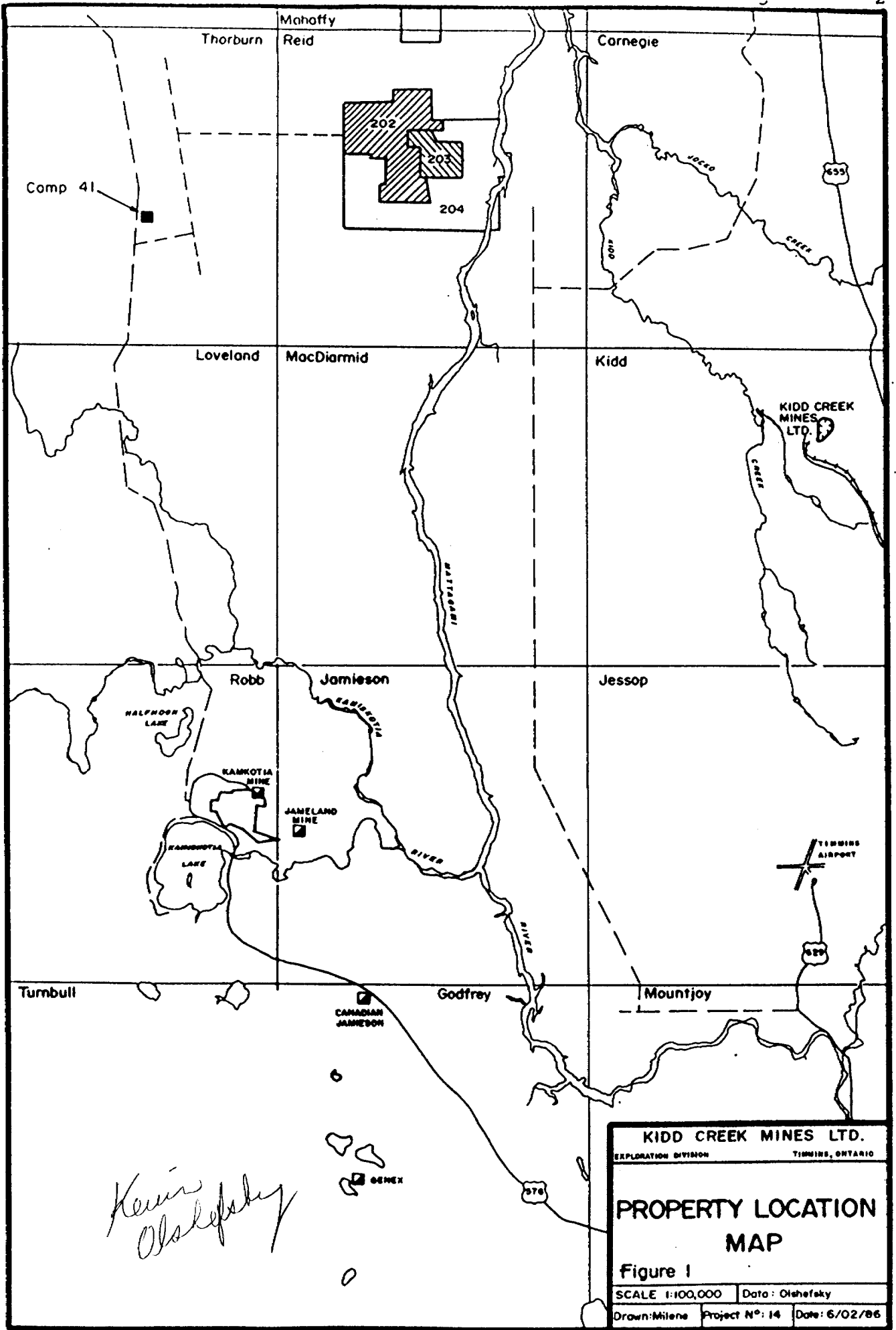
From June to September 1985, geological mapping and lithogeochemical sampling was undertaken following mechanical and hand stripping of outcrops on wholly owned property in Central Reid Township. Mapping was carried out on a metric grid cut in 1985. Compilation of previous diamond drill hole information provided information in areas of no outcrop. Geophysical surveys, horizontal loop EM and Mag, were used to interpret the location of diabase dykes and the trends of formational conductors.

This geological report and enclosed 1:5000 geology map, are the initial products of a program by Kidd Creek Mines Limited to assess base metal prospects in central Reid Township.

LOCATION

The property is located in N.T.S. 42A/12 and 42A/13, in the geographic centre of Reid Township, Porcupine Mining Division. The claim group is located 33 km north-northwest of the Timmins downtown core area and 14 km northwest of the Kidd Creek Mine (Figure 1).

The property extends westerly from the Mattagami River



Kevin Olshefsky

KIDD CREEK MINES LTD.		
EXPLORATION DIVISION	TIMMINS, ONTARIO	
PROPERTY LOCATION MAP		
Figure 1		
SCALE 1:100,000	Data: Olshefsky	
Drawn: Milene	Project N°: 14	Date: 6/02/86

for 4.8 km to Thorburn Creek, and comprises 63 unsurveyed claims (P-849224 to P-849251 inclusive, P-849264 and P-859281 inclusive and P-849337 to P-849353 inclusive).

ACCESS

During the spring, summer and fall land access to the properties is difficult even for all terrain tracked vehicles. Access for the 1985 program was by company helicopter. The Timmins airport is located 25 km to the southeast. Tracked vehicles must access the properties from the west by travelling eastward along 13 km of muskeg roads from a departure point 1 km south of Abitibi Price Camp 41 on the main lumber access road in Thorburn Township (Figure 1). Motor vehicles can get within 2 km to the southeast of the property on the east side of the Mattagami River by travelling 17 km along the Abitibi Price Camp 40 road (in Carnegie Township) off Highway 655.

Alternative transportation is by boat along the Mattagami River, 29 km north from Sandy Falls in Mountjoy Township.

In winter, the properties can be reached safely and relatively cheaply by winter roads from Camp 41. Crossings of the Mattagami River should be avoided unless natural ice is supplemented by artificial flooding and other ice

enhancement techniques.

TOPOGRAPHY

Adjacent to the Mattagami River a gently undulating land surface is cut by shallow steep sided gullies. Westward across the claim group a swampy terrain dominates. A gradual rise in topography through the south-central portion of the property coincides with a ridge of outcrop. Total change in relief is less than 20m.

Vegetation on higher, better drained areas includes stands of poplar and spruce with minor birch and cedar. In wet areas spruce, cedar and alder dominate.

The major drainage systems are the north flowing Mattagami River, bounding the property to the east and Thorburn Creek which flows through the western part of the properties. Intermittent streams and beaver ponds occur throughout the property.

ACKNOWLEDGEMENTS

The author wishes to thank Scot Halladay, Marc Russell, Jane Howe and Ian Craigie, who provided able assistance in the summer field program. Paul Binney is thanked for the overall guidance of the program, his geological opinions and

editorial scrutiny of this report. Dave Comba and Bob Stewart are thanked for their geological insight on the properties and for their helpful comments and suggestions. Murray Jerome provided extensive editorial assistance in the final preparation of this report.

PREVIOUS WORK

No exploration work was recorded for these claims prior to the discovery of the Kidd Creek Mine in 1964. In subsequent years, exploration companies conducted airborne and ground geophysical surveys with the more favourable targets being diamond drilled. Geological mapping was not extensive due to a limited number of outcrops.

In 1964, Duvan Copper Company Limited (Assessment File #T-1008) conducted magnetic and EM surveys over claims P-849233 and P-849240 to P-849242 inclusive. In the same year Patino Mining Corp. (File T-936) conducted magnetic and EM surveys over an eight claim group including claims P-849251, P-849244, P-849264, P-849265, P-849266 and P-849267. The EM survey delineated a weak, west-trending anomaly in the northeast corner of the property and a very weak northeast trending anomaly approximately 400m to the south (Figure 2). In March of 1965, a 170m diamond drill hole (Appendix I), oriented 190° and dipping 50° , tested the

SYMBOLS

- AIRBORNE EM CONDUCTOR
- x—x—x EM CONDUCTOR
- /// IP ANOMALY
- /// RESISTIVITY ANOMALY
- ⊖ MAGNETIC HIGH
- ⊙ DIAMOND DRILL HOLE
- OVERBURDEN HOLE
- DIABASE DYKE
- OC OUTCROP

COMPANIES

- P PATINO MINING CORPORATION
- CJ CANADIAN JAVELIN LIMITED
- Mm MESPI MINES LIMITED
- MC MERCURY-CHIPMAN COMPANY
- H HOLLINGER MINES LIMITED
- Nm NEWMONT MINING CORPORATION
- PD PHELPS DODGE CORPORATION
- G GULF MINERALS CANADA
- KCML KIDD CREEK MINES LIMITED

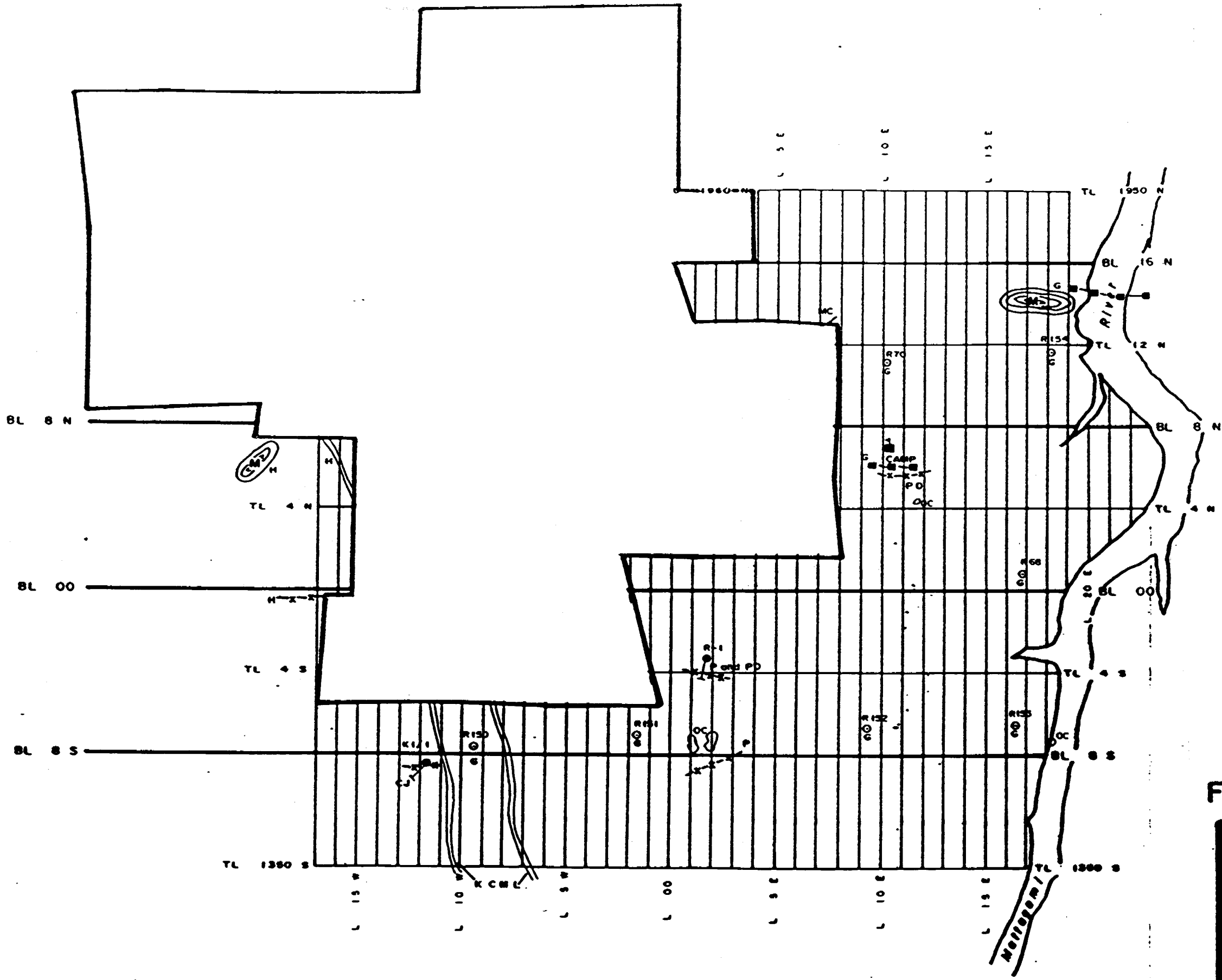


Figure 2

KIDD CREEK MINES LTD.	
Exploration Division	Timmins, ONTARIO
<i>Kevin Olshetsky</i> REID Twp. COMPILATION OF PREVIOUS WORK	
SCALE 1 : 20,000	Date: Olshetsky
Drawn: DEL	Project No: 202
	Date: 05/12/85

northern most conductor. A medium to fine grained gabbro was sectioned with no conductive rocks cut by the hole.

In June 1964, Canadian Javelin Limited (File T-835) had an airborne electromagnetic and magnetic survey flown over two areas which include present day claims P-849226 to P-849229 and P-849276 to P-849279, P-849337 to P-849353 and P-849276 to P-849281. Follow up ground magnetic, HEM and VEM surveys were conducted over the same area in July of that year. A HEM anomaly in the southwest corner of claim P-849279 was tested with a 184m diamond drill hole K-1/1 (Appendix 1) at L11+80W, 8+50S. No conductor was intersected in drilling and the anomaly was attributed to conductive overburden.

In 1964, Mespi Mines Limited (File T-741) had airborne magnetic and electromagnetic surveys flown on northeasterly lines over claims P-849339 and P-849340 as part of a larger area to the north. Follow up ground magnetic, electromagnetic and gravity surveys were conducted between 1965-1966 by Mespi.

In June 1965, Mercury-Chipman Company Limited carried out an EM survey over 12 claims correlating with the north half of present day claim P-849251, claims P-849243, P-849242, P-849232, P-849231, P-849224 and roughly a 6 claim area in between. A total of seven EM anomalies were detected. However no additional work was filed.

In 1972, Hollinger staked ground currently covered by claims P-849337, P-849338, P-849343 and P-849342. Magnetic and HEM surveys over the claims within the same year indicated the presence of two weak conductors similar to overburden responses (Figure 2). The magnetic survey suggests two north trending dykes occur in the northeast and a mafic intrusive is in the northwest portion of the property (File T-560).

In June of 1972, Newmont Mining Corporation of Canada Limited (File T-40) carried out magnetic, resistivity and IP surveys over a claim group which included claims 849240 to P-849251, P-849275 to P-849281, P-849346 to P-849351 all inclusive, P-849337, P-849338, P-849343, P-849342, P-849271 and P-849272. The surveys were conducted on 365m spaced lines and on 182m lines in anomalous areas (T-40). In June of 1974 Newmont conducted a magnetic survey on claims P-849224 to P-849228 and P-849233 to P-849236 inclusive.

In April 1975, Phelps Dodge Corporation of Canada Limited (T-1702) conducted electromagnetic and magnetic surveys over two areas containing current claims P-849239 to P-849241 inclusive and claims P-849244, P-849267, P-849264, and the south half of claim P-849251. The same weak northeasterly trending EM anomaly that had been diamond drilled by Patino Mines in 1965 was located on current claims P-849251 and P-849244. A second easterly striking EM

conductor in the south half of claim P-849240 was thought to be more favorable and drilling was recommended (T-1702). Although no further work is recorded, felsic and mafic drill core was found in 1985 near the vicinity of the proposed drill site, suggesting that Phelps Dodge company did drill the anomaly.

In 1979, Gulf Minerals Canada Limited (T-1929) drilled eight overburden holes on or about claims P-849276, P-849264, P-849271, P-849272, P-849246, P-849235 and P-849233. The holes were part of an extensive overburden drill program in Reid and Loveland townships (Appendix II and Figure 2). Geochemistry filed as assessment is reported as average values within individual holes. Stratigraphic anomalies may be hidden by the averaging. Data is presented in such a manner that correlation of geochemical results cannot be made with Kidd Creek Mines Exploration overburden holes. (Personal communication Joe Alcock, 1985). In 1980 Gulf Minerals flew an electromagnetic survey over Reid and Loveland Townships which included claims as far east as the Mattagami River. Anomalies detected by the 1980 survey within the current claim group are shown on figure 2.

RECENT WORK BY KIDD CREEK MINES LTD.

In April 1985, Kidd Creek Mines staked 63 contiguous claims in central Reid Township (Figure 4). In June of that same year, P. A. Blackburn surveyors cut 10.62 km of transit controlled base line comprised of four 800m spaced east-west base lines and one north-south line. The origin for the grid is the center township survey pin, Lot 7 & 6, Con III & IV (the legal survey fabric of Reid Township was annulled in the 1920's).

Field work in June included establishing a tent camp (10+60E, 7+10N), locating claim posts, diamond drill holes and outcrop areas suitable for hand and mechanical stripping.

Cutting of 100m spaced north-south lines by Mid Canada Exploration Ltd. (under contract), commenced in July. An 88.21 km grid covers 46 of the Kidd Creek Mines Ltd. staked claims.

Mapping of bedrock exposures and geographic features was completed during August and September, 1985. One major outcrop area from 0+80 to 2+80E and 5+50 to 8+00S was mechanically stripped providing more extensive rock exposure on claim 849267 (Figure 6).

In September, magnetic, VLF and horizontal loop EM

surveys were completed on Lines 1+00W to 17+00W. The magnetic survey located two northwest-trending magnetic highs interpreted as diabase dykes.

GEOLOGY

General Statement

The Reid property, located 14 km northwest of the Kidd Creek Mine, is extensively covered by thick glacial drift. Isolated outcroppings occur in the higher south-central portion of the claim group (2+00E, 7+00S), at 11+94E, 4+24N, and as one small outcrop exposed along the Mattagami River at low water level (18+20E, 7+60S). Total rock exposure is less than 5%. Two major lithologies occur in outcrop: 1) mafic volcanic rock comprised of pillow breccia; and 2) medium grained equigranular gabbro.

Volcanic Stratigraphy

Mafic Pillow Breccia

A mafic pillow breccia occurs on the west bank of the Mattagami River at 18+20E, 7+60N. The outcrop is 20m long at low water level, but only 3m long when the river is at normal levels. Observations are difficult due to fine river silt on the outcrop and intense iron staining (carbonate?). Pillow fragments are subrounded, up to 1m in length and

oriented to 105° Az. Matrix to the fragments is dark green chloritized hyaloclastite. Moderate pervasive chloritization of the fragments gives them a medium to dark green colour on fresh surfaces. Local accumulations of carbonate filled amygdules form 1 to 3% of some fragments. Pyrite (5%) occurs as clusters within a 5 cm wide, 100° Az trending quartz vein on the northend of the outcrop. Moderate pervasive to patchy silicification occurs throughout.

Gabbroic Intrusive

Gabbroic intrusive outcrops in two main areas. The southern most exposure is on claim P-849267 at L1+00E, 7+00S and L2+00E, 7+00S. In this locality the outcrops are two rock knobs that dip off steeply in all directions. The rock is a medium to coarse grained, equigranular gabbro with less than 0.5% pyrrhotite disseminated throughout. Weak fracture controlled epidotization occurs locally. Two isolated outcrops of similar rock occur 100m to the north at 2+10E, 5+80N and 1+95E, 5+50N. Gabbro outcrops again on claim P-849239 at 11+94E, 4+24N. This is the most easterly exposure of this rock type.

STRUCTURE AND METAMORPHISM

Based on the limited amount of outcrop on the Reid Central claim group little can be said about structure. A principal fracture orientation in the gabbro ranges from 120° to 160° averaging 146° . A secondary fracture set averages 48° . Foliation in the river outcrop occurs at 105° to 110° .

Regional greenschist facies metamorphism has affected all rock types.

ECONOMIC GEOLOGY

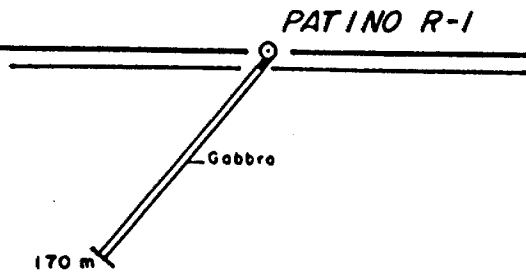
Minor disseminated pyrrhotite occurs in the mafic volcanic rocks. Zones of disseminated pyrrhotite occur locally in the gabbroic intrusion. These zones are intensely Fe-oxide stained on surface.


K. F. OLSHEFSKY
Associate Geologist

APPENDIX I

DIAMOND DRILL LOGS AND VERTICAL SECTIONS

190° ←



Azimuth : 190°

Dip : -50°

KIDD CREEK MINES LTD.		
Exploration Division		Timmins, ONTARIO
<i>Kevin Olshefsky</i> REID CENTRAL CLAIMS REID TWP.		
N - S VERTICAL SECTION		
PATINO R - I		
LOOKING WEST		
SCALE : 1 : 5,000	Data: Olshefsky	
Drawn: DEL	Project N°: 204	Date: 03 / 12 / 85

DIAMOND DRILL HOLE K-1 / 1

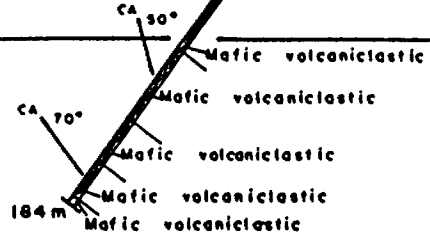
LOCATED AT 54 / 50 SW / 8 / 00 NW, DRILLING S 45° W AT 55 DEGREES

<u>INTERVAL</u>	<u>FEET</u>	<u>DESCRIPTION</u>
0 - 172	172	Overburden, sand, gravel and boulders.
172 - 200	28	Dacite tuff, hard, dense, light green. Minor pyrite and pyrrhotite veinlets. Core Angle: 45°
200 - 385	185	Dacite tuff, fairly hard, light green, no mineralization. Core Angle: 50°
385 - 500	115	Dacite tuff, light green, medium grained to massive, very fine minor veinlets of pyrite and pyrrhotite. Core Angle: 50 - 55°
500 - 595	95	Dacite tuff, light green, vesicular, veinlets of calcite. Core Angle: 70° Possible shear zone at 560'
595 - 605	10	Dacite tuff, pale green, foliated at 80°
		----- END OF HOLE -----
<u>NOTE:</u>		Mineralization appears to be too weak to provide strong conductors with over 140 feet of overburden.

CANADIAN JAVELIN LTD - 1964

225°

K 1-1



Azimuth : 225°

Dip : -55°

Location : approx L 1180 W at 850 N

KIDD CREEK MINES LTD.

Exploration Division

Timmins, ONTARIO

Kevin Olshefsky REID TWP.

VERTICAL SECTION

K 1 - 1

(CANADIAN JAVELIN LTD. - 1964)

LOOKING WEST

SCALE: 1 : 5,000

Date: Olshefsky

Drawn: DEL

Project N°: 203

Date: 05 / 11 / 85

APPENDIX II

OVERBURDEN DRILL LOGS BY GULF MINERALS
CANADA LIMITED

DATE March 6 1979 HOLE No. R-68 GEOLOGIST KOTHA DRILLER LAGNE
 HOLE LOCATION Z 197 S 1800 Feet N of P-153
 BIT No. 10426; 108311 FOOTAGE ON BIT 124' + 31' = 155'; Redrill 31'
 HOURS MOVE 8:40-10:15 HOURS DRILL 10:18 - 11:45 OTHER _____

DEPTH	GRAPHIC LOG	SAMPLE No.	DESCRIPTIVE LOG	ANALYSES						
0-2'	No Return		No Return							
2-16'			Brown Clay - greasy lacustrine clay - gradational contact							
16-23'			Gray Clay greasy lacustrine clay mixed gray and brown occasional pebble up to 1% sand							
23-27.5'			Pebbly Gravel 75% medium to very coarse sand 25% pebbles 20-60% granitics 10-20% gneisses 10% calc bone 20-40% matrix							
27.5-30'	No Return		No Return							
30'-30.5'			Pebbly Gravel similar to above gravel							
30.5'-31'			Rhyolite - aphanitic - very hard - pale green mottled with darker green							
31'			bit broke pulled rods, changed bit redrilled to 30.5' would not drill deeper hole abandoned							
31'			End of Hole							

DATE MARCH 6/79 HOLE No. B-69 GEOLOGIST KOTILA DRILLER LAGNE
 HOLE LOCATION 162°00' E, 100°35' W
 BIT No. 108311 FOOTAGE ON BIT 01.132' = 132' + redill 31'
 HOURS MOVE 11:15-12:15 HOURS DRILL 12:15 - 2:15 OTHER _____

DEPTH	GRAPHIC LOG	SAMPLE No.	DESCRIPTIVE LOG	ANALYSES							
0-1			No Return Organics								
1-8'											
8-113.5'			Lacustrine Clay								
8-12'			brownish grey colour								
12-113.5'			grey colour								
			- 1% sand with the occasional pebbles								
10											
20											
30											
40											
50											
60											
70											
80											
90											
100											

- continued -

DATE MARCH 6, 1939 HOLE NO. R-70 GEOLOGIST KOTILA DRILLER GAGNE
 HOLE LOCATION 162+005, 73+95W
 BIT NO. 10834 FOOTAGE ON BIT 132' 11 1/4" = 246'
 HOURS MOVE 2:18-2:45 HOURS DRILL 2:45-4:30 MARCH 6
2:00-2:45 MARCH 7 OTHER _____

DEPTH	GRAPHIC LOG	SAMPLE No.	DESCRIPTIVE LOG	ANALYSES					
	No Return		0-4' No Return						
10			4-14' Brown Clay - greasy lacustrine clay - gradational contact						
20			14-53' Grey Clay - greasy lacustrine clay						
30									
40									
50			53-90' Pebbly Gravel 75% medium to coarse sand 25% pebbles 20% granites 20% gneisses 10% carbonates 10% grey and beige rhyolites 10% mafics						
60	01,110								
	02,110								
	03,110		70-90' increase in mafics 60% mafics 20% granites 10% carbonates 5% rhyolite 5% gneisses						
	04,110								
	05,110								
	06,110								
	07,110								
	08,110								
70									
	09		90-109' Grey Till - compacted, hard clay - gritty clay - 10% pebbles						
	10		98' Shut down March 6						

- continued -

DATE March 3, 1979 HOLE NO. R-150 GEOLOGIST KETILA DRILLER JODWIN
 HOLE LOCATION 215400S, 137430W
 BIT No. R57425 FOOTAGE ON BIT 0 to 90' = 90'
 HOURS MOVE 10:30-2:15 HOURS DRILL 2:15-5:45 OTHER _____
7:15-4:00 WAIT FOR WATER

DEPTH	GRAPHIC LOG	SAMPLE No.	DESCRIPTIVE LOG	ANALYSES					
0-40'			No Return - ease of drilling suggests lacustrine clay						
10	No								
20	Return								
30									
40-75'			Grey Clay 100% greeny lacustrine clay						
50									
60									
70									
75-80'	No		No Return						
80-86'	Return		Sand 100% very fine to coarse sand predominately quartz sample probably contaminated therefore discarded						
86-87.5'		N.S.	No Return						
86-87'	Return		Granitic Boulder? a few small chips recovered						
87.5-90'			Basalt medium grained sheared color like basalt moderate to dark green						
90'			End of Hole						

DATE March 6, 1929 HOLE No. R154 GEOLOGIST SMITH DRILLER JORDAN
 HOLE LOCATION L162 930S, 47.52 W
 BIT No. 108310 FOOTAGE ON BIT 0-110 New bit
 HOURS MOVE _____ HOURS DRILL 1000 - 1630 OTHER _____

DEPTH	GRAPHIC LOG	SAMPLE No.	DESCRIPTIVE LOG	ANALYSES					
0			0-4 Organics						
4			4-12 Clay - tan brown, silty						
12			12-35 Clay - grey, greasy, slightly silty						
35			35-68 fine silt - poor return						
68			68-80 Sandy Gravel - fine gr. sand. - med gr. pebbles diorite, mafics, gneisses minor carbonate						
75		01	75' - 10% granite pebbles						
76			76-77 - Diorite Boulder						
77		02	77 - mostly diorite + granite, minor mafics						
79			79-80 - silt and fine sand						
80		03	80-85 Till 5% pebbly, 25% sandy, 30% silty, 40% clay mostly basalt + diorite pebbles						
85		04	85-99 Sandy Gravel mafics, diorite, granite, carbonate						
87			87-88 Boulder - granite						
91		05	91 - quartz - chalcocite veining						
94		05110	94-95 minor silt						
100			Not Sampled						



Report of Work

(Geophysical, Geological, Geochemical and Expenditures)

Instructions: - Please type or print

2. 0281

#133/86

#1 Mining



42A13SE0069 2.9086 REID

900

Type of Survey(s) **GEOLOGICAL** | Reid Township

Holder(s) **Kidd Creek Mines Ltd.** | Prospector's Licence No. **T-1848**

Address **571 Moneta Avenue, P.O. Box 1140, Timmins, Ontario**

Survey Company **Kidd Creek Mines Ltd.** | Date of Survey (from & to) **17 06 85** | Total Miles of line Cut **54.81 miles**

Name and Address of Author (of Geo-Technical report) **Kevin Olshefsky, P.O. Box 1140, 571 Moneta Ave. Timmins, Ontario P4N 7H9**

Credits Requested per Each Claim in Columns at right

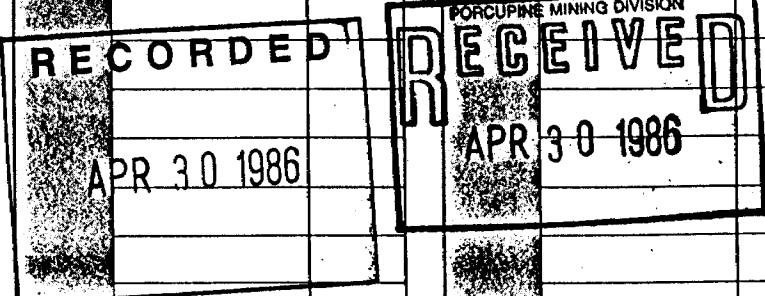
Special Provisions	Geophysical	Days per Claim
For first survey: Enter 40 days. (This includes line cutting)	- Electromagnetic	
	- Magnetometer	
For each additional survey: using the same grid: Enter 20 days (for each)	- Radiometric	
	- Other	
	Geological	40
	Geochemical	

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

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

Mining Claims Traversed (List in numerical sequence)

Mining Claim			Mining Claim		
Prefix	Number	Expend. Days Cr.	Prefix	Number	Expend. Days Cr.
P	849224	40			
	849225	40			
	849226	40			
(see attached list)					



Expenditures (excludes power stripping)

Type of Work Performed

Performed on Claim(s)

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.

Total number of mining claims covered by this report of work. **51**

Date **April 30, 1986** | Recorded Holder or Agent (Signature) *Kevin Olshefsky*

For Office Use Only

Total Days Cr. Recorded **2,040** | Date Recorded **April 30/86** | Mining Branch Director *Blank*

Date Approved as Recorded *See Revised Statement* | Branch Director

Certification Verifying Report of Work

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 **Kevin Olshefsky, P.O. Box 1140, 571 Moneta Ave. Timmins, Ontario P4N 7H9**

Date Certified **April 30, 1986** | Certified by (Signature) *Kevin Olshefsky*

MINING CLAIMS TRAVERSED (Continued)

Mining Claim	Expend. Days Cr.
P-849227	40
P-849228	40
P-849229	40
P-849230	40
P-849231	40
P-849232	40
P-849233	40
P-849234	40
P-849235	40
P-849236	40
P-849237	40
P-849238	40
P-849239	40
P-849240	40
P-849241	40
P-849242	40
P-849243	40
P-849244	40
P-849245	40
P-849246	40
P-849247	40
P-849248	40
P-849249	40
P-849250	40
P-849251	40
P-849264	40
P-849265	40
P-849266	40
P-849267	40
P-849268	40
P-849269	40
P-849270	40
P-849271	40
P-849272	40
P-849273	40
P-849274	40
P-849275	40
P-849276	40
P-849277	40
P-849278	40
P-849279	40
P-849280	40
P-849281	40
P-849337	40
P-849342	40
P-849347	40
P-849348	40
P-849350	40

Kevin J. Hefsky



Ministry of Natural Resources

File _____

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) GEOLOGICAL
Township or Area REID TOWNSHIP
Claim Holder(s) KIDD CREEK MINES LTD.

Survey Company KIDD CREEK MINES LTD.
Author of Report KEVIN OLSHEFSKY
Address of Author Box 1140, 571 Moneta Ave., Timmins
Covering Dates of Survey June 17, 1985 to Sept. 25, 1985
(linecutting to office)
Total Miles of Line Cut 54.81 miles

MINING CLAIMS TRAVERSED
List numerically

P 849224
(prefix) (number)
P 849225
P 849226
(see attached list)

If space insufficient, attach list

<u>SPECIAL PROVISIONS CREDITS REQUESTED</u>	<u>DAYS per claim</u>
ENTER 40 days (includes line cutting) for first survey.	Geophysical _____ -Electromagnetic _____ -Magnetometer _____ -Radiometric _____ -Other _____
ENTER 20 days for each additional survey using same grid.	Geological <u>40</u> Geochemical _____

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

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

DATE: April 30, 1986 SIGNATURE: Kevin Olshefsky
Author of Report or Agent

Res. Geol. _____ Qualifications _____

Previous Surveys

File No.	Type	Date	Claim Holder

TOTAL CLAIMS 51

OFFICE USE ONLY

GEOPHYSICAL TECHNICAL DATA

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

Number of Stations _____ Number of Readings _____

Station interval _____ Line spacing _____

Profile scale _____

Contour interval _____

MAGNETIC

Instrument _____

Accuracy – Scale constant _____

Diurnal correction method _____

Base Station check-in interval (hours) _____

Base Station location and value _____

ELECTROMAGNETIC

Instrument _____

Coil configuration _____

Coil separation _____

Accuracy _____

Method: Fixed transmitter Shoot back In line Parallel line

Frequency _____
(specify V.L.F. station)

Parameters measured _____

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 CLAIMS TRAVERSED (Continued)

Mining Claim	Expend. Days Cr.
P-849227	40
P-849228	40
P-849229	40
P-849230	40
P-849231	40
P-849232	40
P-849233	40
P-849234	40
P-849235	40
P-849236	40
P-849237	40
P-849238	40
P-849239	40
P-849240	40
P-849241	40
P-849242	40
P-849243	40
P-849244	40
P-849245	40
P-849246	40
P-849247	40
P-849248	40
P-849249	40
P-849250	40
P-849251	40
P-849264	40
P-849265	40
P-849266	40
P-849267	40
P-849268	40
P-849269	40
P-849270	40
P-849271	40
P-849272	40
P-849273	40
P-849274	40
P-849275	40
P-849276	40
P-849277	40
P-849278	40
P-849279	40
P-849280	40
P-849281	40
P-849337	40
P-849342	40
P-849347	40
P-849348	40
P-849350	40

Kevin Staley

Mining Lands Section

File No 2.9086

Control Sheet

TYPE OF SURVEY

GEOPHYSICAL

GEOLOGICAL

GEOCHEMICAL

EXPENDITURE

MINING LANDS COMMENTS:

S. Hurst

Signature of Assessor

May 6/86

Date

W. L. G. J. G. J.

June 4, 1986

Your File: 133/86
Our File: 2.9086

Mining Recorder
Ministry of Northern Development and Mines
60 Wilson Avenue
Timmins, Ontario
P4N 2S7

Dear Sir:

RE: Notice of Intent dated May 14, 1986
Geological Survey on Mining Claims
P 849224, et al, in Reid Township

The assessment work credits, as listed with the above-mentioned Notice of Intent, have been approved as of the above date.

Please inform the recorded holder of these mining claims and so indicate on your records.

Yours sincerely,

J.C. Smith, Supervisor
Mining Lands Section

Whitney Block, 6th Floor
Queen's Park
Toronto, Ontario
M7A 1W3

Telephone: (416) 965-4888

SH/mc

cc: Kidd Creek Mines Ltd
571 Moneta Avenue
P.O. Box 1140
Timmins, Ontario
P4N 7H9
Attention: Kevin Olshefsky

Mr. G.H. Ferguson
Mining & Lands Commissioner
Toronto, Ontario

Resident Geologist
Timmins, Ontario

Encl.



Recorded Holder
KIDD CREEK MINES LTD

Township or Area
REID TOWNSHIP

Type of survey and number of Assessment days credit per claim	Mining Claims Assessed
Geophysical Electromagnetic _____ days Magnetometer _____ days Radiometric _____ days Induced polarization _____ days Other _____ days Section 77 (19) See "Mining Claims Assessed" column Geological _____ 40 _____ days Geochemical _____ days Man days <input type="checkbox"/> Airborne <input type="checkbox"/> Special provision <input checked="" type="checkbox"/> Ground <input checked="" type="checkbox"/> <input type="checkbox"/> Credits have been reduced because of partial coverage of claims. <input type="checkbox"/> Credits have been reduced because of corrections to work dates and figures of applicant.	P 849224 to 235 inclusive 849237 to 247 inclusive 849249-50-51 849264 to 273 inclusive 849276 to 281 inclusive

Special credits under section 77 (16) for the following mining claims

<u>20 DAYS</u>	<u>10 DAYS</u>
P 849236-48 849337-42-48-50	P 849274-75 849347

No credits have been allowed for the following mining claims

not sufficiently covered by the survey insufficient technical data filed

The Mining Recorder may reduce the above credits if necessary in order that the total number of approved assessment days recorded on each claim does not exceed the maximum allowed as follows: Geophysical - 80; Geological - 40; Geochemical - 40; Section 77(19) - 60.



Ontario

May 28/86

Ministry of
Northern Development
and Mines

May 14, 1986

Your File: 133-86
Our File: 2.9086

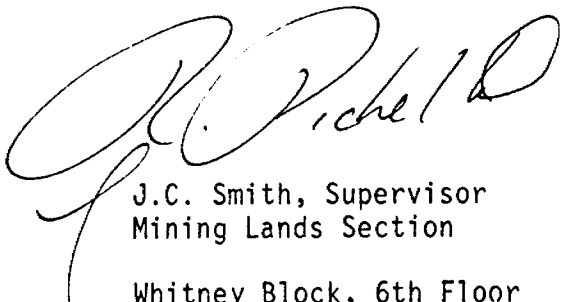
Mining Recorder
Ministry of Northern Development and Mines
60 Wilson Avenue
Timmins, Ontario
P4N 2S7

Dear Sir:

Enclosed are two copies of a Notice of Intent with statements listing a reduced rate of assessment work credits to be allowed for a technical survey. Please forward one copy to the recorded holder of the claims and retain the other. In approximately fifteen days from the above date, a final letter of approval of these credits will be sent to you. On receipt of the approval letter, you may then change the work entries on the claim record sheets.

For further information, if required, please contact Mr. R.J. Pichette at (416) 965-4888.

Yours sincerely,



J.C. Smith, Supervisor
Mining Lands Section

Whitney Block, 6th Floor
Queen's Park
Toronto, Ontario
M7A 1W3

SH/mc
Encl.

cc: Kidd Creek Mines Ltd
571 Moneta Avenue
P.O. Box 1140
Timmins, Ontario
P4N 7H9
Attention: Kevin Olshefsky

Mr. G.H. Ferguson
Mining & Lands Commissioner
Toronto, Ontario



Ontario

Ministry of
Northern Development
and Mines

Notice of Intent
for Technical Reports

May 14, 1986

2.9086/133/86

An examination of your survey report indicates that the requirements of The Ontario Mining Act have not been fully met to warrant maximum assessment work credits. This notice is merely a warning that you will not be allowed the number of assessment work days credits that you expected and also that in approximately 15 days from the above date, the mining recorder will be authorized to change the entries on the record sheets to agree with the enclosed statement. Please note that until such time as the recorder actually changes the entry on the record sheet, the status of the claim remains unchanged.

If you are of the opinion that these changes by the mining recorder will jeopardize your claims, you may during the next fifteen days apply to the Mining and Lands Commissioner for an extension of time. Abstracts should be sent with your application.

If the reduced rate of credits does not jeopardize the status of the claims then you need not seek relief from the Mining and Lands Commissioner and this Notice of Intent may be disregarded.

If your survey was submitted and assessed under the "Special Provision-Performance and Coverage" method and you are of the opinion that a re-appraisal under the "Man-days" method would result in the approval of a greater number of days credit per claim, you may, within the said fifteen day period, submit assessment work breakdowns listing the employees names, addresses and the dates and hours they worked. The new work breakdowns should be submitted directly to the Land Management Branch, Toronto. The report will be re-assessed and a new statement of credits based on actual days worked will be issued.

MAHAFFY TWP - M.540

THE TOWNSHIP
OF

REID

DISTRICT OF
COCHRANE

PORCUPINE
MINING DIVISION

SCALE 1 INCH = 40 CHAINS

LEGEND

- PATENTED LAND
- CROWN LAND SALE
- LEASES
- LOCATED LAND
- LICENSE OF OCCUPATION
- DRIVING RIGHTS ONLY
- SURFACE RIGHTS ONLY
- ROADS
- IMPROVED ROAD
- KING'S HIGHWAYS
- RAILWAYS
- POWER LINES
- MARSHES & SWAMP
- WATER
- UNFILED
- PATENTED

NOTES

400' surface rights reservation along the
streams, creeks, lakes and rivers.

Subdivision of this township into lots & concessions
annulled Aug 19, 1902.

Flooding rights for areas along Mattagami
River are reserved to Ontario Hydro, L.O. 1005.

PLANNED REFORESTATION
APR 14 1982

Withdrawn for disposition by
means of a special grant, C.M. 295

RECEIVED
MAY 01 1982

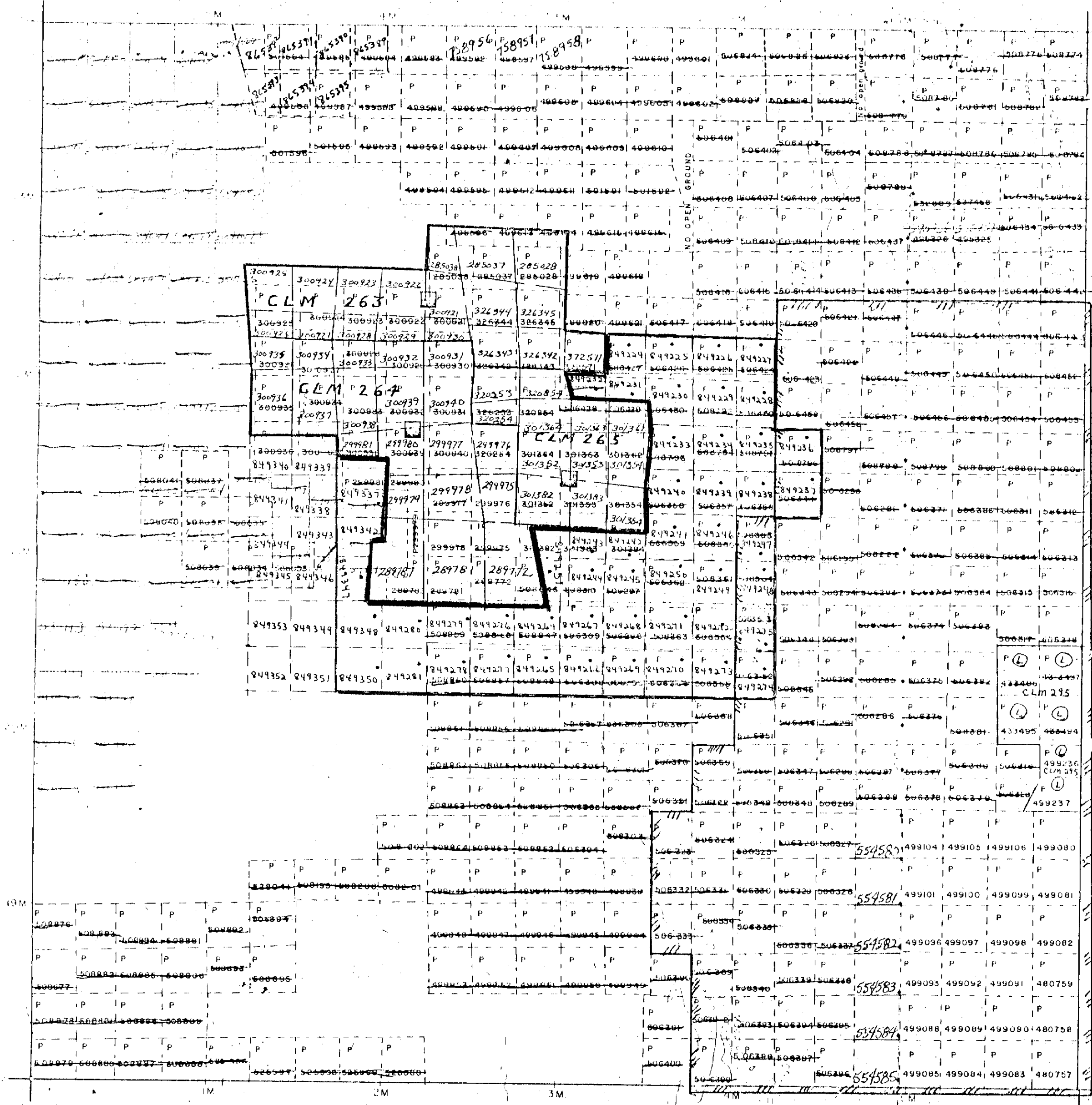
Rec. Oct 5/79

PLAN NO. M.575

ONTARIO
MINISTRY OF NATURAL RESOURCES
SURVEYS AND MAPPING BRANCH

THORBURN TWP - M.601

CARNEGIE TWP - M.441



MACDIARMID TWP - M.294

29086



