



PROGRESS REPORT
ON
LONG LAKE CLAIM GROUP - WEST BLOCK
IN
MACKLEM TOWNSHIP
OVERBURDEN DRILLING RESULTS
PORCUPINE MINING DIVISION
DISTRICT OF COCHRANE
FOR
HILTON RESOURCE CORPORATION

W. MacRae
April 16, 1986

Qual. 2.3027

RECEIVED
NOV 17 1986
MINING LANDS SECTION

SUMMARY OF WORK

TOTAL FOOTAGE DRILLED	796
NUMBER OF HOLES	9
OPERATING DAYS	4
COST OF DRILLING	\$5634.92
CREDITS EARNED AT \$15.00/DAY	375
CREDITS REQUESTED IN THIS REPORT	360



TABLE OF CONTENTS

	<u>Page</u>
INTRODUCTION	1
LOCATION AND ACCESS	1
TOPOGRAPHY AND DRAINAGE	1
PROPERTY STATUS	4
HISTORY	4
REGIONAL GEOLOGY	6
OVERBURDEN TARGET SELECTION	9
OVERBURDEN DRILLING METHODOLOGY	9
SAMPLING HANDLING	10
RESULTS	10
CONCLUSIONS	12
RECOMMENDATIONS	13
REFERENCES	14
CERTIFICATE	15
APPENDIX I Overburden Drill Logs	
APPENDIX II Assay Results	

LIST OF FIGURES

Figure 1.	Location Map, Macklem Township	2
Figure 2.	Claim Location Map, Long Lake West Block	3

LIST OF MAPS

Map 1.	Compilation	(in back pocket)
Map 2.	Assay Results and Proposed Drilling	(in back pocket)

INTRODUCTION

This report details an overburden drilling program carried out on the Long Lake claim group (west block) in Macklem Township. The property consists of six (6) unpatented mining claims located 22 miles due east of Timmins (Figure 1 and 2).

The overburden sampling program employed a reverse circulation drill system mounted on skids and moved by a tree skidder. The program covered four days from January 16 to January 19, 1986 inclusive and was carried out by Dominik Drilling (1981) Inc. of Timmins, Ontario.

LOCATION AND ACCESS

The Long Lake claim group is located on the eastern shore of Night Hawk Lake, in the southern part of Macklem Township, northeastern Ontario. The property is 22 miles east of the city center of Timmins.

Access to the property is via paved Highway 101 east from Timmins to just east of the Highway 65 junction, then south on a gravel timber access road (Gibson Lake road) to the northeast corner of the property. Logging roads and trails west of the Gibson Lake road provide access to most of the property.

TOPOGRAPHY AND DRAINAGE

The terrain in Macklem Township is relatively flat and typical of heavily glaciated shield areas. Relief is

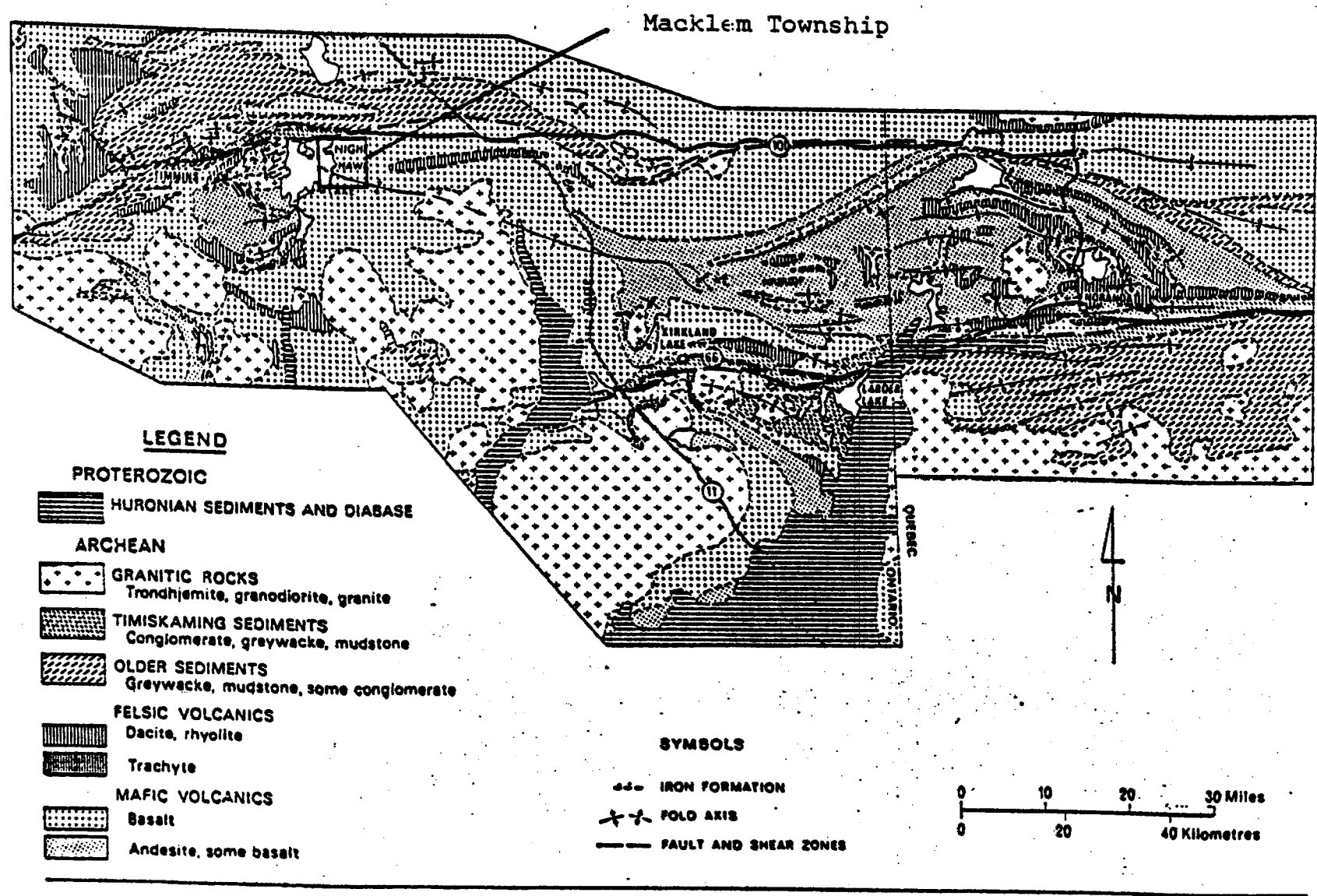


Figure 1. Location Map, Macklem Township

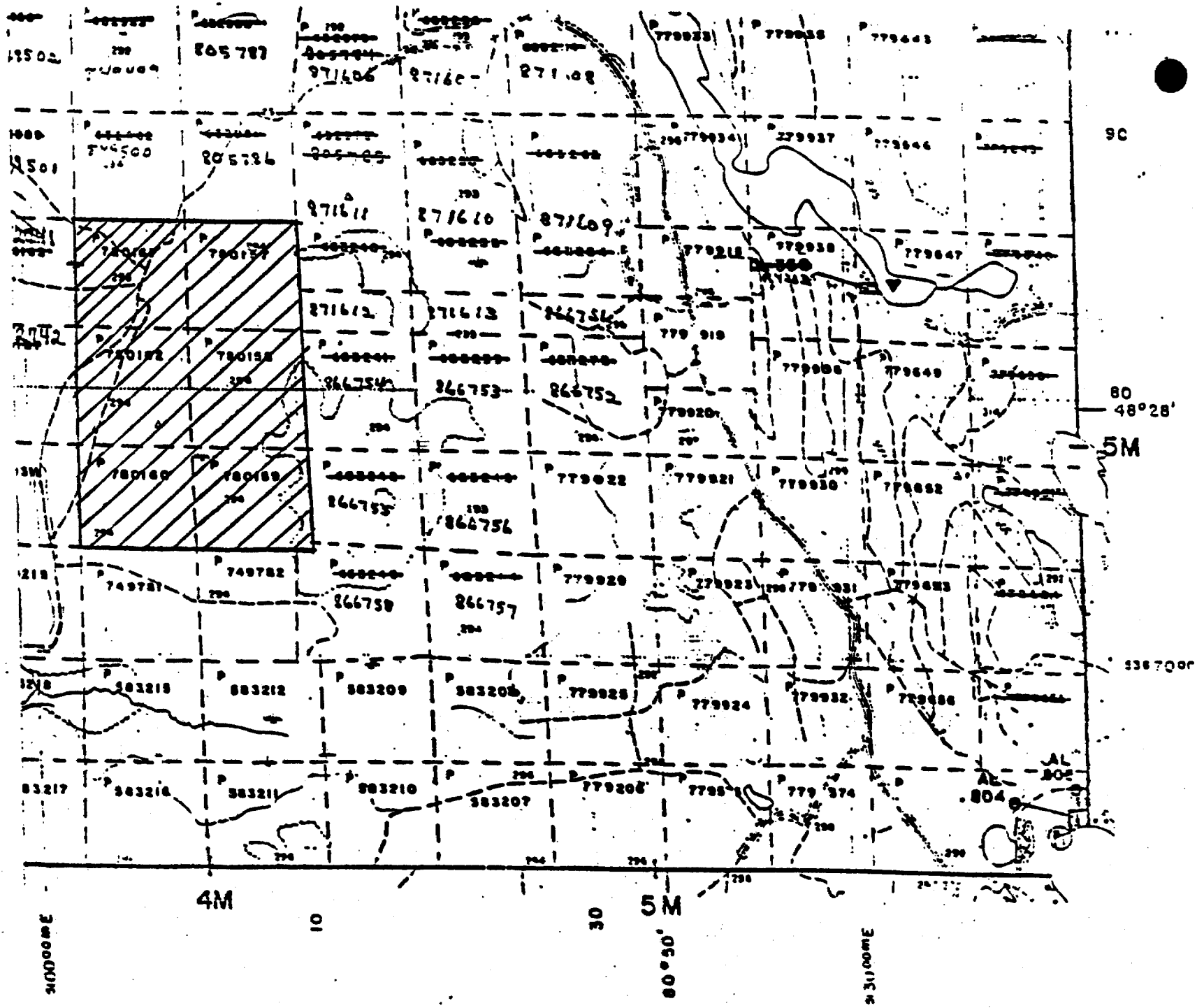


Figure 2. Claim location map, Long Lake - West Block, Mackleem Twp. (1:20,000).

low with rounded hills reaching up to 50 feet above the local drainage. The Long Lake claim group is almost completely flat at an elevation approximately 30 feet above that of Night Hawk Lake (895 feet).

The region is part of the James Bay - Hudson Bay watershed and drainage is roughly north. Near the western part of the property several small lakes and streams drain westward into Night Hawk Lake, which drains northerly.

PROPERTY STATUS

The Long Lake claim group west block consists of six (6) contiguous unpatented mining claims in Macklem Township, District of Cochrane, Porcupine Mining Division, Ontario. The following is a listing of the claim numbers, recording date and date on which the next assessment work is due:

<u>Claim No.</u>	<u>Recording Date</u>	<u>Assessment Work Due (Days)</u>
P780157	November 17, 1983	November 17, 1986 (40)
P780158	November 17, 1983	November 17, 1986 (40)
P780159	November 17, 1983	November 17, 1986 (40)
P780160	November 17, 1983	November 17, 1986 (40)
P780161	November 17, 1983	November 17, 1986 (40)
P780162	November 17, 1983	November 17, 1986 (40)

HISTORY

In 1907, gold was discovered in Macklem Township on Gold Island, located at the northeast end of Night Hawk Lake. This was the first discovery of gold in the Porcupine Mining Camp. On the peninsula and 1-1/2 miles along strike to the west and up to 3 miles along strike to the east, subsequent gold discoveries were made. In this area five discoveries

were evaluated by shafts and underground workings. The only property to have significant production was the Porcupine Peninsula Gold Mine (now owned by Hydra Explorations Ltd.) producing, to 1948, 27,416 oz. gold from 100,000 tons of ore milled. Reserves at the Porcupine Peninsula Mine (1-1/2 miles west of Gold Island) are estimated at 1.48 million tons grading 0.123 oz. gold per ton to the 675 foot level.

The Goldhawk Porcupine Mine (including Gold Island) saw sporadic evaluation with the bulk of the underground testing undertaken from 1945 to 1950 with a new shaft sunk to 641 feet and 4 levels established. Reserves above the 225 foot level are estimated at 275,000 tons grading 0.11 oz. gold per ton.

The two properties to the east, Ronnoco and Aquarius - New Electra (along strike two and three miles respectively) have reported substantial tonnages of low grade gold mineralization with erratic higher grade zones. There has been no gold production to date from these two deposits.

During 1979-80, Pamour Porcupine Mines shipped approximately 50,000 tons of open pit ore from the Goldhawk and Porcupine Peninsula properties to their mills in Timmins. The grade of the ore shipped is not public information.

In 1980, Asarco Exploration Co. of Canada Ltd. confirmed that drilling on their Macklem Township property had intersected substantial gold mineralization in the vicinity and along strike from the former Aquarius property. In April, 1982, a new shaft was completed to a depth of 575

feet and an initial cross-cut on the 500 foot level reached the footwall of the ore zone. Initial work suggests that ore shoots with some continuity were present and mill testing was necessary. The approximate reserves are presently 500,000 tons grading 0.24 oz. gold per ton.

Eight miles to the east, along strike, is the St. Andrews Goldfields deposit which is undergoing further evaluation from underground. The estimated reserves at the St. Andrews deposit are 900,000 tons grading 0.12 oz. gold per ton.

There is no record of any work having been completed within the Long Lake claim group west block prior to their acquisition by Hilton Resource Corporation and Livingstone Energy Corporation.

In April, 1985, VLF-EM and magnetometer surveys were carried out over a control grid cut with a baseline running east-west and cross lines running north-south at 300 foot intervals. Five crossover anomalies were pinpointed in the VLF-EM survey of which most can be attributed to shearing in volcanics. The magnetometer survey outlines a relatively large area on the north and west portions of the block with values above 59,020 gammas. The southeastern portion of the block is relatively void of magnetic variations:

REGIONAL GEOLOGY

The Night Hawk Lake area was first reported on in detail in 1924 by Hopkins and in 1931 by Laird. Except for regional compilation maps, the area was not remapped until 1969 by Leahy with a final report (G.R. 96) in 1971.

The Macklem Township area is underlain by Archean Age rocks consisting of metavolcanic and metasedimentary rocks that have been intruded by felsic plutons and ultramafic plugs and sills. All the above mentioned rock types have been cut by Matachewan-type (quartz) and Keweenaw-type (olivine and quartz) diabbases.

The volcanic rocks have been divided into two groups, an older Deloro group and a younger overlying Tisdale group. The Deloro group is largely a calc-alkaline sequence; tholeiites are prominent only towards the bottom of the group. The group is approximately 16,000 feet thick and composed of flows of andesite and basalt in the lower portion and dacite flows and dacitic and rhyolitic pyroclastics near the top. Iron formation is common at or near the top of the Deloro group and forms a persistent stratigraphic marker through much of the area south of the Destor-Porcupine Fault zone. The Tisdale group is a major change in vulcanism with the base composed mainly of basaltic and peridotitic komatiites and magnesium-rich tholeiitic basalts. The middle formations are dominantly an iron-rich tholeiitic sequence. The upper formations are almost entirely calc-alkaline volcanic rocks. The Tisdale group varies in thickness, but is approximately 10,000 feet in the Macklem Township area.

Metasedimentary rocks, belonging to the Porcupine group, consisting predominantly of interlayered greywacke, siltstone and minor conglomerate, forms a turbidite sequence that is time equivalent to the top of the Deloro group and all the Tisdale group. The maximum thickness is approximately 10,000 feet.

Large peridotite and dunite bodies were emplaced generally as sills in the Deloro group of volcanics. A variety of felsic intrusive rocks occur in the region: the oldest being soda-rich quartz feldspar porphyries and trondhjemites and the youngest a more potassic granodiorite and monzonites. The porphyries all occur within the lower formations of the Tisdale group. Pyke (1982) suggests that some or all of the porphyries may represent rhyolite domes formed at or near the surface.

Diabasic intrusions form dykes that trend north-south and are part of the Matachewan Dyke swarm. The Matachewan diabase is Proterozoic in age and can show glomeroporphyritic textures in a quartz diabase composition. A younger diabase trends northeast-southwest and is probably Keweenawan-type. This latter diabase cross-cuts the older diabase and can be olivine or quartz rich.

A major regional fault, the Destor-Porcupine Fault, trends in a general east-west direction in the northern part of Macklem Township. An older set of faults, trending N70E, off-set stratigraphy and are themselves off-set by a younger N55W set of faults.

The Macklem Township area was over-ridden by a continental ice sheet during the Pleistocene period. As the glacier melted back it formed a large glacial lake called Lake Barlow-Ojibway. The lake deposited sediments in the form of varved clays which covered tills and in some places flanked sand and gravel deposits left by former meltwater rivers. The overburden depth is variable and reaches up to 345 feet in northeastern Macklem Township.

OVERBURDEN TARGET SELECTION

The location of the overburden holes were targeted using magnetometer and VLF-EM geophysical surveys. The magnetic relief was not high with lows from 127 gammas to highs of 285 gammas (158 gamma difference). The VLF-EM dip angle data was "Fraser Filtered" and 10 set as the background in this environment. Map 1 shows the drill hole locations as well as anomalous mag and VLF-EM areas.

OVERBURDEN DRILLING METHODOLOGY

Depths were determined with the aid of the known length of the drill rods used. The samples were collected in five gallon pails with the sampling interval determined by the supervisor logging the stratigraphy.

The samples were collected from a cone into which the return water, containing the sample, was discharged. The samples were passed through a number 12 wire mesh screen. The return is constantly monitored to determine the nature of the horizon being drilled. Horizons normally encountered are organic matter, clay, varved clay, sandy clay, sand, gravel, till, boulders, or bedrock.

The sample pail is changed as new horizons are encountered or a sample length has been chosen. If the horizon is not sampled then the sample is discarded. If it is to be sampled, the material is transferred to a heavy plastic bag and saved. The till samples are sent out for heavy mineral concentration. The resulting concentrates are analysed for gold. Bedrock is penetrated approximately three feet and the resulting chips assayed.

SAMPLE HANDLING

Overburden samples were sent to Overburden Exploration Services Limited of Timmins, Ontario for heavy mineral concentration. The bedrock chips were sent directly to the assay lab for analysis.

At Overburden Exploration Services Limited the sample is homogenized and a 250 gram geochem sample is taken and stored. The sample is then wet sieved at 10 mesh with the +10 mesh stored. The -10 mesh is passed over a shaking table where the light fraction is stored and the gold grains are counted in the heavy portion. The remaining heavy portion is then separated using heavy liquids (sp.gr. 3.3) and the light fraction stored. This heavy fraction is then put through a magnetic separator. The magnetic fractions were returned to the author. The non-magnetic heavy mineral concentration was sent to Swastika Labs of Swastika, Ontario for analysis of gold.

At Swastika Labs the complete non-magnetic heavy mineral concentrate is assayed by fire assay and an atomic absorption finish. The bedrock chips are assayed by fire assay and an atomic absorption finish.

RESULTS

Nine overburden holes were completed with a total of 796 feet drilled (Appendix I). The overburden varied in thickness from 20.5 feet to 167 feet. The overburden consisted predominantly of sand with minor pebbles and a thin basal till. Only the till samples were processed as the source of any anomalies can be pinpointed while in sand the source could be very obscure. All assays quoted in this report are of heavy mineral concentrates.

Holes 1 to 5 in the southeastern portion of the west block were shallow varying from 20.5 feet to 34 feet. Hole 3 did not give a till sample due to poor water return. Hole 3 returned a slightly anomalous till at 320 ppb Au, while holes 2 and 5 returned highly anomalous values of 1265 1430 ppb Au.

Hole 6 returned two slightly anomalous values in the bottom of the hole with the bedrock returning as a rusty red-brown clay.

Hole 7, in sample 7-A which assayed 37990 ppb (1.1 oz./ton) Au, also contained one gold grain. Also in the same hole sample 7-C assayed 12500 ppb (0.36 oz/ton) Au. Samples 7-B and 7-D were slightly anomalous at 470 and 320 ppb Au respectively. Hole 9 returned anomalous assays in samples 9-B, 9-D and 9-E with 9-E the highest at 1105 ppb Au.

The following is a summary of the assay results for this program:

<u>Sample</u>	<u>H.M.C. Weight (grams)</u>	<u>Au ppb</u>	<u>Gold Grains</u>
1-A	11.87	75	0
1-B	3.41	145	0
1-C	5.8	320	0
1-D	23.96	70	0
1-3	3.65	180	0
2-A	0.87	1265	0
4-A	5.39	65	0
5-A	0.21	1430	0
5-B	9.03	165	0
6-A	3.98	165	0
6-B	14.78	30	0
6-C	15.47	60	0
6-D	7.92	50	0
6-E	6.11	80	0
6-F	12.07	300	0
6-G	13.45	410	0

<u>Sample</u>	<u>H.M.C. Weight (grams)</u>	<u>Au ppb</u>	<u>Gold Grains</u>
7-A	3.21	37990	1
7-B	5.32	470	0
7-C	0.28	12500	0
7-D	1.57	320	0
8-A	8.02	105	0
9-A	13.57	40	0
9-B	15.35	810	0
9-C	7.14	35	0
9-D	0.65	770	0
9-E	1.63	1105	0

CONCLUSIONS

An excellent anomaly exists in the area of hole 7 and probably represents the northwestward extension of the United Kingdom Energy Inc. anomaly previously outlined in the summer of 1985. There is a slightly anomalous area to the south associated with the VLF-EM anomalies, but the low sample weights of the H.M.C. in samples 2-A and 5-A may be giving an exaggerated anomaly. An H.M.C. sample weight less than 1 gram can give false anomalies, but can not be ruled out in this case because of the VLF-EM association.

Hole 6 returned bedrock as a rusty red-brown clay which on the adjacent property was found to be a highly weathered carbonate-rich basaltic komatiite. The basaltic komatiite unit hosted the anomaly on the United Kingdom Energy Inc. property to the east and drilling in July, 1985, located two sericite alteration zones, one of which contained 0.382 oz./ton Au over 4.8 feet.

RECOMMENDATIONS

Two anomalous areas have been indicated in the initial reverse circulation program. To cover the two areas comprehensively, I have recommended 44 reverse circulation holes which are plotted on map 2. Drilling of some of the holes may not be feasible depending on the time of year because of swamp conditions.

The costs for the recommended program are as follows:

Reverse circulation rig 20 days @ \$2400./day	\$ 48,000.00
Supervision 24 days @ \$325./day	7,800.00
Helper 20 days @ \$80./day	1,600.00
H.M.C. preparation	5,280.00
Assaying	2,112.00
Transportation	<u>1,000.00</u>
	\$ 65,792.00
Contingencies at 10%	<u>6,579.00</u>
Total	<u>\$ 72,371.00</u>

Some holes may have to be moved during the process of the survey as more information is acquired.

Respectfully submitted,



REFERENCES

- Hopkins, P. E.
1924: Night Hawk Lake Gold Area; Cochrane District, Ontario; Ontario Department of Mines, Annual Report, Vol. 33, Part 3, p.27-36; accompanied by Map No. 33c, Scale: 1 inch to 2640 feet.
- Laird, H. C.
1931: German-Currie Area; Cochrane District, Ontario; Ontario Department of Mines, Annual Report, Vol. 40, Part 3, p. 1-22; accompanied by Map No. 40b, Scale: 1 inch to 1 mile.
- Leahy, E. J.
1971: Geology of the Night Hawk Lake Area; District of Cochrane; Ontario Department of Mines and Northern Affairs, Geological Report 96; accompanied by Map 2222 (coloured), Scale: 1 inch to 2640 feet.
- Pyke, D. R.
1982: Geology of the Timmins Area; District of Cochrane; Ministry of Natural Resources, Ontario Geological Survey Report 219; accompanied by Map 2455, Scale: 1:50,000.

CERTIFICATE

The Management
Hilton Resource Corporation
P.O. Box 34234, Station D
Vancouver, B.C. V6J 4N5

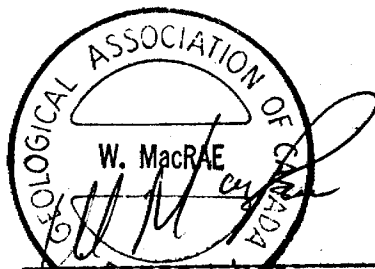
Sirs:

With reference to my Progress Report on Overburden Drilling on the Long Lake Claim Group west block, dated April 16, 1986;

I, William E. MacRae, of the City of Timmins, Ontario, do hereby certify and state that:

- (1) I have graduated from Lakehead University with the degree of Bachelor of Science (Honours) in 1975 and have obtained the degree of Masters of Science from McMaster University in 1982;
- (2) I have practiced my profession continuously for the past seven years.
- (3) I am a fellow of the Geological Association of Canada, a member of the Canadian Institute of Mining and Metallurgy, and a member of the Prospectors and Developers Association (President of the Porcupine Branch);
- (4) I have no interest, direct or indirect, in the six (6) mining claims comprising the property described in this report nor do I expect to receive any; and
- (5) This report is based upon direct personal supervision of the described program from January 16 to January 20, 1986.

Dated this 16th day of April, 1986.
Timmins, Ontario.



W. MacRae M.Sc.
Consulting Geologist

APPENDIX I

OVERBURDEN DRILL LOGS

REVERSE CIRCULATION DRILL HOLE LOG

DATE 17/01/86 LOCATION L3W/32+50S
 TRICONE # CB67558 HOLE NO. 1-B
 LOGGED BY W. MACRAE TOTAL DEPTH 38 feet
 START TIME 9:15 am FINISH TIME 10:02 am

DEPTH IN FEET	GRAPHIC LOG	INTERVAL SAMPLE NO.	DESCRIPTIVE LOG	ASSAYS		
					BMC Au ppb	Au ppb
0'-3'			Organic Material			
3'-22'			Fine grained gray sand with minor clay and pebbles			
22'-26'			Pebble Till Matrix:- fine grained gray sand Clasts:- 70% volcanics + sediments, 20% granite, 10% others	1-C	320	
26'-32'			Pebble Till Matrix:- fine grained gray sand Clasts:- 80% volcanics + sediments, 10% granite, 10% others	1-D	70	
32'-34'			Boulder Till Matrix:- minor gray sand Clasts:- numerous volcanic boulders up to 8" in diameter	1-E	180	
34'-38'			Bedrock - medium green in color - up to 10% quartz-carbonate veining - minor pyrite			1-F Nil
38'			END OF HOLE			

REVERSE CIRCULATION DRILL HOLE LOG

DATE 17/01/86 LOCATION L6W/32+50S
 TRICONE # CB67558 HOLE NO. 2
 LOGGED BY W. MACRAE TOTAL DEPTH 24 feet
 START TIME 10:33 am FINISH TIME 10:51 am

DEPTH IN FEET	GRAPHIC LOG INTERVAL	SAMPLE NO.	DESCRIPTIVE LOG	ASSAYS	
				Au ppb	Au ppb
0'-2'			Organic Material		
2'-19'			Gray sand with minor clay and pebbles		
10					
19'-20.5'			Pebble Till		
			Matrix:- fine grained gray sand		
			Clasts:- 80% volcanics + sediments,	2-A	1265
			10% granite, 10% others		
20	A B				
20.5'-24'			Bedrock		
			- medium to dark green volcanics		
			- 8 to 10% quartz-carbonate veining	2-B	Nil
			- trace pyrite		
30					
24'			END OF HOLE		
40					
50					
60					
70					
80					
90					
100					

REVERSE CIRCULATION DRILL HOLE LOG

DATE 17/01/86 LOCATION L12W/31+50S
 TRICONE # CB67558 HOLE NO. 3
 LOGGED BY W. MACRAE TOTAL DEPTH 48 feet
 START TIME 12:30 pm FINISH TIME 1:03 pm

DEPTH IN FEET	GRAPHIC LOG INTERVAL	SAMPLE NO.	DESCRIPTIVE LOG	ASSAYS	
				HMC Au ppb	Au ppb
			0'-20' No Return		
10					
20			20'-34' Gray sand with minor clay and pebbles - poor return		
30					
34			34'-43' No Return		
40					
43			43'-48' Bedrock - light green, altered volcanic - 15% quartz-carbonate veining - minor pyrite	3-A	Nil
48			48' END OF HOLE		
60					
70					
80					
90					
100					

REVERSE CIRCULATION DRILL HOLE LOG

DATE 17/01/86 LOCATION L9W/27S
 TRICONE # CB67558 HOLE NO. 4
 LOGGED BY W. MACRAE TOTAL DEPTH 26 feet
 START TIME 1:50 pm FINISH TIME 2:30 pm

DEPTH LN FEET	GRAPHIC LOG	INTERVAL	SAMPLE NO.	DESCRIPTIVE LOG	ASSAYS		
						HMC Au ppb	Au ppb
				0'-2' Organic Material			
				2'-21' Gray sand with minor clay			
10							
				21'-22' Pebble Till			
				Matrix:- fine grained gray sand			
				Clasts:- 70% volcanics + sediments,	4-A	65	
				20% granite, 10% others			
				22'-26' Bedrock			
				- light green volcanic		4-B	Nil
				- 60% quartz-carbonate veining			
30							
				26' END OF HOLE			
40							
50							
60							
70							
80							
90							
100							

REVERSE CIRCULATION DRILL HOLE LOG

DATE 17/01/86 LOCATION L6W/27S
 TRICONE # CB67557 HOLE NO. 5
 LOGGED BY W. MACRAE TOTAL DEPTH 34 feet
 START TIME 3:30 pm FINISH TIME 4:16 pm

DEPTH IN FEET	GRAPHIC LOG	INTERVAL	SAMPLE NO.	DESCRIPTIVE LOG	ASSAYS		
						HMC Au ppb	Au ppb
0'-4'				No Return			
4'-21'				Gray sand with minor clay and pebbles			
21'-22'				Pebble Till Matrix:- fine grained gray sand Clasts:- 80% volcanics + sediments, 20% others	5-A	1430	
22'-28'				Pebble Till Matrix:- fine grained gray sand Clasts:- 60% volcanics + sediments, 20% granite, 15% quartz, 5% others - 1.5' boulder of serpentinized peridotite at 22'	5-B	165	
28'-34'				Bedrock - light green volcanic - 10% quartz-carbonate veining - trace pyrite		5-C	Nil
34'				END OF HOLE			

REVERSE CIRCULATION DRILL HOLE LOG

DATE 18/01/86 LOCATION L0/7S
 TRICONE # CB67557 HOLE NO. 6
 LOGGED BY W. MACRAE TOTAL DEPTH 174 feet
 START TIME 11:27 am FINISH TIME 2:57 pm

DEPTH IN FEET	STRATIGRAPHIC LOG	INTERVAL	SAMPLE NO.	DESCRIPTIVE LOG	ASSAYS				
				0'-2' Organic Material					
				2'-13' Silty clay					
10				13'-34' Gray sand with minor clay					
20									
30				34'-126' Fine grained gray sand					
40									
50									
60									
70									
80									
90									
100									

REVERSE CIRCULATION DRILL HOLE LOG

DATE _____ LOCATION _____
 TRICONE # _____ HOLE NO. 6 cont'd
 LOGGED BY _____ TOTAL DEPTH _____
 START TIME _____ FINISH TIME _____

DEPTH IN FEET	GRAPHIC LOG	INTERVAL	SAMPLE NO.	DESCRIPTIVE LOG	ASSAYS		
						HMC Au ppb	Au ppb
110				126'-134' Pebble Till Matrix:- fine grained gray sand Clasts:- 70% volcanics + sediments, 20% granite, 10% others - 1.5' boulder at 128'	6-A	165	
120				134'-140' Cobble Till Matrix:- fine grained gray sand Clasts:- 60% volcanics + sediments, 20% granite, 20% others	6-B	30	
				140'-144' Pebble Till Matrix:- fine grained gray sand Clasts:- 60% volcanics + sediments, 30% granite, 10% others	6-C	60	
130				144'- 150' Pebble Till Matrix:- fine grained gray sand Clasts:- 60% volcanics + sediments, 30% granite, 10% others - poor return	6-D	50	
140				150'-154' Pebble Till Matrix:- fine grained gray sand Clasts:- 50% volcanics + sediments, 40% granite, 10% others - pyrite in some fragments			
				154'-160' Pebble Till Matrix:- fine grained gray sand Clasts:- 70% volcanics + sediments, 20% granite, 10% others	6-E	80	
150				160'-164' Pebble Till Matrix:- fine grained gray sand Clasts:- 70% volcanics + sediments, 20% granite, 10% others	6-F	300	
160				164'-167' Pebble Till Matrix:- fine grained gray sand Clasts:- 70% volcanics + sediments, 20% granite, 10% others	6-G	410	
170			167'-174' Bedrock - returns as a rusty red-brown clay - no sulphides noted - carbonate rich basaltic komatiite	6-H		Nil	
174			174' END OF HOLE				

REVERSE CIRCULATION DRILL HOLE LOG

DATE 19/01/86 LOCATION L6W/6S
 TRICONE # CB67557 HOLE NO. 7
 LOGGED BY W. MACRAE TOTAL DEPTH 156 feet
 START TIME 8:45 am FINISH TIME 10:37 am

DEPTH IN FEET	GRAPHIC LOG	INTERVAL SAMPLE NO.	DESCRIPTIVE LOG	ASSAYS				
0			0'-2' Organic Material					
2			2'-8' Brown oxidized clay					
8			8'-11' Silty clay					
10			11'-64' Gray sand with minor clay					
20								
30								
40								
50			64'-128' Fine grained gray sand					
60								
70								
80								
90								
100								

REVERSE CIRCULATION DRILL HOLE LOG

DATE _____ LOCATION _____
 TRICONE # _____ HOLE NO. 7 cont'd
 LOGGED BY _____ TOTAL DEPTH _____
 START TIME _____ FINISH TIME _____

DEPTH IN FEET	GRAPHIC LOG	INTERVAL SAMPLE NO.	DESCRIPTIVE LOG	ASSAYS		
					HMC Au ppb	Au ppb
110			128'-134' Pebble Till Matrix:- fine grained gray sand Clasts:- 70% volcanic + sediments, 20% granite, 10% others - no return from 130' to 133'	7-A	37990	
120			134'-140' Gritty Clay Till Matrix:- gritty gray clay Clasts:- 70% volcanics + sediments, 20% granite, 10% others - poor water return	7-B	470	
130			140'-154' Boulder Till Matrix:- fine grained gray sand Clasts:- boulders of altered volcanics with 10% quartz-carbonate veining - no return from 140' to 143' and 144.5' to 147'	7-C	12500	
140			154'-155' Pebble Till Matrix:- fine grained gray sand Clasts:- 80% volcanics + sediments, 10% granite, 10% others	7-D	320	
150			155'-156' Bedrock - light green altered volcanic - 20% quartz-carbonate veining	7-E		Nil
156			156' END OF HOLE			
160						
170						
180						
190						
200						

REVERSE CIRCULATION DRILL HOLE LOG

DATE 19/01/86 LOCATION L12W/4S
 TRICONE # CB67562 HOLE NO. 8
 LOGGED BY W. MACRAE TOTAL DEPTH 148 feet
 START TIME 11:25 am FINISH TIME 12:40 pm

DEPTH IN FEET	GRAPHIC LOG	INTERVAL	SAMPLE NO.	DESCRIPTIVE LOG	ASSAYS				
	[Symbol]			0'-2' Organic Material					
	[Symbol]			2'-10' Brown Oxidized Clay					
10	[Symbol]			10'-11' Gray Clay					
	[Symbol]			11'-44' Gray sand with minor clay					
20	[Symbol]								
30	[Symbol]								
40	[Symbol]			44'-54' Gray sand					
50	[Symbol]			54'-64' Gray sand with minor clay					
60	[Symbol]								
70	[Symbol]			64'-84' No Return					
80	[Symbol]								
	[Symbol]			84'-114' Gray sand with minor clay					
90	[Symbol]								
100	[Symbol]								

REVERSE CIRCULATION DRILL HOLE LOG

DATE _____ LOCATION _____
 TRICONE # _____ HOLE NO. 8 cont'd
 LOGGED BY _____ TOTAL DEPTH _____
 START TIME _____ FINISH TIME _____

DEPTH IN FEET	GRAPHIC LOG	INTERVAL SAMPLE NO.	DESCRIPTIVE LOG	ASSAYS		
					HMC Au ppb	Au ppb
			114'-138' Fine grained gray sand			
110			138'-144' Pebble Till Matrix:- fine grained gray sand Clasts:- 65% volcanics + sediments, 25% granite, 10% others	8-A	105	
120			144'-148' Bedrock - sericite altered volcanic - 1% pyrite - light green-yellow changing to light green in color down hole			8-R Nil
130						
140	A B		148' END OF HOLE			
150						
160						
170						
180						
190						
200						

REVERSE CIRCULATION DRILL HOLE LOG

DATE _____ LOCATION _____
 TRICONE # _____ HOLE NO. 9 cont'd
 LOGGED BY _____ TOTAL DEPTH _____
 START TIME _____ FINISH TIME _____

DEPTH IN FEET	GRAPHIC LOG	INTERVAL SAMPLE NO.	DESCRIPTIVE LOG	ASSAYS		
					HMC Au ppb	Au ppb
110		D	99'-104' Pebble Till Matrix:- fine grained gray sand Clasts:- 60% volcanics + sediments, 30% granite, 10% others - gritty clay matrix from 103' to 104'	9-D	770	
110		E	104'-109' Pebble Till Matrix:- fine grained gray sand Clasts:- 70% volcanics + sediments, 20% granite, 10% others	9-E	1105	
120		F	109'-114' Bedrock - light green to light green-yellow - 10% to 15% quartz-carbonate veining - mottled altered volcanic	9-F		Nil
130			114' END OF HOLE			
140						
150						
160						
170						
180						
190						
200						

APPENDIX II

ASSAY RESULTS



SWASTIKA LABORATORIES LIMITED

P.O. BOX 10, SWASTIKA, ONTARIO P0K 1T0
TELEPHONE: (705) 642-3244
ANALYTICAL CHEMISTS • ASSAYERS • CONSULTANTS

Certificate of Analysis

Certificate No. 62817

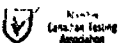
Date: April 9 1986

Received Apr. 4/86 26 Samples of heavy minerals

Submitted by Hilton Resource Corp. c/o Mr. W. MacRae, Timmins, Ontario

SAMPLE NO.	GOLD PPB	SAMPLE NO.	GOLD PPB
BM-1A	75	BM-7A	37990
-1B	145	-7B	470
-1C	320	-7C	12500
-1D	70	-7D	320
-1E	180	-8A	105
-2A	1265	-9A	40
-4A	65	-9B	810
-5A	1430	-9C	35
-5B	165	-9D	770
-6A	165	-9E	1105
-6B	30		
-6C	60		
-6D	50		
-6E	80		
-6F	300		
-6G	410		

Per G. Lebel
G. Lebel -- Manager





SWASTIKA LABORATORIES LIMITED

P.O. BOX 10, SWASTIKA, ONTARIO P0K 1T0
TELEPHONE: (705) 642-3244
ANALYTICAL CHEMISTS • ASSAYERS • CONSULTANTS

Certificate of Analysis

Certificate No. 62225

Date: January 29 1986

Received Jan. 23/86 9 Samples of chips (Bedrock)

Submitted by W. MacRae, Timmins, Ontario Hilton Resmer

SAMPLE NO.	GOLD PPB
98374 1-F	Nil
98375 2-B	Nil Nil
98376 3-A	Nil
98377 4-B	Nil
98378 5-C	Nil
98379 6-H	Nil
98380 7-E	Nil
98381 8-B	Nil
98382 9-F	Nil Nil

Per G. Lebel
G. Lebel -- Manager

GOLD GRAINS OBSERVED ON SHAKER TABLE AND SUPERPANNER

Sample Number	No. of Gold Grains	Sulphides Observed	+10 Mesh Lithology Estimate
B1-1A	No V.G.	1% Euhedral Cubic Py.	92% Volc./Seds 8% Plutonic
B1-1B	No V.G.	1% Anhedral Py.	95% Volc/Seds 5% Plutonic
B1-1C	No V.G.	1% Anhedral Py.	95% Volc/Seds 5% Plutonic
B1-1D	No V.G.	1% Anhedral Py.	95% Volc/Seds 5% Plutonic
B1-1E	No V.G.	1% Anhedral Py.	95% Grn. Volc. 5% Quartz
B1-2A	No V.G.	1% Anhedral Py. and Py. Cubes	95% Volc/Seds 5% Plutonic
B1-4A	No V.G.	1% Anhedral Py.	95% Volc/Seds 5% Plutonic
B1-5A	No V.G.	1% Anhedral Py.	98% Oxidized Porph. or Intrus., 2% Seds
B1-5B	No V.G.	1% Anhedral Py.	95% Volc/Seds 5% Plutonic
B1-6A	No V.G.	1% Anhedral Py. and Py. Cubes	95% Volc/Seds 5% Plutonic
B1-6B	No V.G.	1% Anhedral Py.	95% Volc/Seds 5% Plutonic
B1-6C	No V.G.	1% Anhedral Py.	95% Volc/Seds 5% Plutonic
B1-6D	No V.G.	1% Anhedral Py.	95% Volc/Seds 5% Plutonic
B1-6E	No V.G.	1% Anhedral Py.	95% Volc/Seds 5% Plutonic
B1-6F	No V.G.	1% Anhedral Py.	95% Volc/Seds 5% Plutonic
B1-6G	No V.G.	1% Subhedral Py.	93% Volc/Seds 7% Plutonic

BM-7A	1 Abraded Flake (710 x 140 microns)	1% Anhedrai Py.	98% Volc/Seds 2% Quartz
BM-7B	No V.G.	1% Anhedrai Py.	95% Grn. Volc. 5% Quartz
BM-7C	No V.G.	1% Anhedrai Py.	95% Grn. Volc. 5% Quartz
BM-7D	No V.G.	1% Anhedrai Py.	95% Grn. Volc. 5% Quartz
EM-8A	No V.G.	1% Anhedrai Py.	95% Volc/Seds 5% Plutonic
EM-9A	No V.G.	1% Subhedrai Py.	95% Volc/Seds 5% Plutonic
EM-9B	No V.G.	1% Subhedrai Py.	95% Volc/Seds 5% Plutonic
EM-9C	No V.G.	1% Anhedrai-Subhedrai Py.	90% Volc/Seds 10% Plutonic
EM-9D	No V.G.	1% Anhedrai Py. and Py. Cubes	90% Volc/Seds 10% Plutonic
EM-9E	No V.G.	1% Anhedrai Py. and Py. Cubes	90% Volc/Seds 10% Plutonic

Sample No.	Wet Weight (kg)		Table/ L	Dry Weight (grams)		
	Bulk	+10 Mesh		Superpan/ L	Magnetite	M.I./ H
BM 1A	9.5	1.03	N.A.	38.7	11.88	11.87
BM 1B	3	.21	N.A.	29.45	3.58	3.41
BM 1C	5.9	.51	N.A.	25.86	7.9	5.8
BM 1D	21	.98	N.A.	155.35	22.59	23.96
BM 1E	9.6	.44	N.A.	20.65	4.37	3.65
BM 2A	3.1	.09	N.A.	72.81	2.23	.87
BM 4A	4.6	.63	N.A.	57.15	3.99	5.39
BM 5A	1	.11	N.A.	34.48	.27	.21
BM 5B	5.6	.43	N.A.	100.67	9.46	9.03
BM 6A	6.7	.85	N.A.	126.5	5.5	3.98
BM 6B	6.2	.63	N.A.	153.67	10.56	14.78
BM 6C	6.4	.4	N.A.	146.45	11.15	15.47
BM 6D	3.3	.38	N.A.	90.81	5.89	7.92
BM 6E	7	.65	N.A.	33.91	6.69	6.11
BM 6F	5.4	.5	N.A.	41.22	7.63	12.07

Sample No.	Wet Weight (kg)		Dry Weight (grams)			
	Bulk	+10 Mesh	Table/ L	Superpan/ L	Magnetite	H.I./ H
BM 6G	6.2	.87	N.A.	106.68	9	13.45
BM 7A	2.6	.36	N.A.	28.43	2.14	3.21
BM 7B	2.7	.28	N.A.	27.14	3.71	5.32
BM 7C	2.7	.07	N.A.	34.42	.66	.28
BM 7D	3.8	.03	N.A.	65.69	2.72	1.57
BM 8A	16.2	2.63	N.A.	223.9	12.35	8.02
BM 9A	8.7	.53	N.A.	150.91	11.68	13.57
BM 9B	17.2	.66	N.A.	110.91	20.34	15.35
BM 9C	9.9	2.21	N.A.	72.9	8.76	7.14
BM 9D	10.4	3.14	N.A.	48.6	2.64	.65
BM 9E	11.6	4.05	N.A.	47.21	4.08	1.63



W.R. # 340/86

Sec. 2c



42A07NW0006 2.9558 MACKLEM

900

Type of Survey(s) **Expenditures**

Claim Holder(s) **Hilton Resource Corp. / Livingston Energy** T-1382 / T1381

Address **P.O. Box 34234, Station D, Vancouver B.C. V6J 4N5**

Survey Company **Dominik Drilling**

Name and Address of Author (of Geo-Technical report) **William MacRae, P.O. Box 417, Timmins, Ont. P4N 7E3**

Date of Survey (from & to) **16 Oct 86 to 19 Oct 86** Total Miles of line Cut

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	
	- Radiometric	
	- Other	
For each additional survey: using the same grid: Enter 20 days (for each)	Geological	
	Geochemical	
Man Days Complete reverse side and enter total(s) here	- Electromagnetic	
	- Magnetometer	
	- Radiometric	
	- Other	
Airborne Credits Note: Special provisions credits do not apply to Airborne Surveys.	Geological	
	Geochemical	
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	780157	60			
	780158	60			
	780159	60			
	780160	60			
	780161	60			
	780162	60			

RECORDED
OCT 31 1986

RECEIVED
OCT 31 1986
PORCUPINE MINING DIVISION

Expenditures (excludes power stripping)

Type of Work Performed **Reverse Circulation Drilling**

Performed on Claim(s) **P780158, P780159, P780160, P780161, P780162**

Calculation of Expenditure Days Credits

Total Expenditures **\$ 5634.92** ÷ Total Days Credits **15** = **375**

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.

Date **31/10/86** Recipient Holder or Agent (Signature) *[Signature]*

For Office Use Only

Total Days Cr. Recorded **360** Date Recorded **Oct. 31/86** Mining Recorder *[Signature]*

Date Approved as Recorded **10.11.25** Branch Director *[Signature]*

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 **William MacRae, P.O. Box 417, Timmins, Ont. P4N 7E3**

Date Certified **31/10/86** Certified by (Signature) *[Signature]*

MAP SYMBOLOLOGY

Aerial Cableway	Pipeline (above ground)
Boundary	Railroad
International	Single Track
Provincial	Double Track
District, Township	Advanced
Indian Reserve	Turbine
Approximate	Road
Lot, Concession	Highway, County
Approximate	Township
Park Boundary	Access (road at disposal)
Bridge	Intermittent (line at disposal)
Road, Railroad	Trill, Boat Road (single side)
Building	Rapids
Chimney	Double line river with multiple rapids
Cliff, Pit, Pile	Double line river with multiple rapids
Contours	Reservoir
Interpretation	River, Stream, Canal
Approximate	Approximate
Depression	Direction of flow
Control Points	Lock
Horizontal	Wharf, Dock, Pier
Vertical	Wooded Area
Culvert	Spot Elevation (300.0)
Falls	Tower
Double line river	Transmission Line
Fence, Hedge, Wall	Pine
Feature Outline (contour lines, etc.)	Prick
Flooded Land	Tunnel
Lock	Utility Poles
Marsh or Swamp	Wharf, Dock, Pier
Moat	Wooded Area
Mine Head Frame	
Outcrop	

AREAS WITHDRAWN FROM DISPOSITION

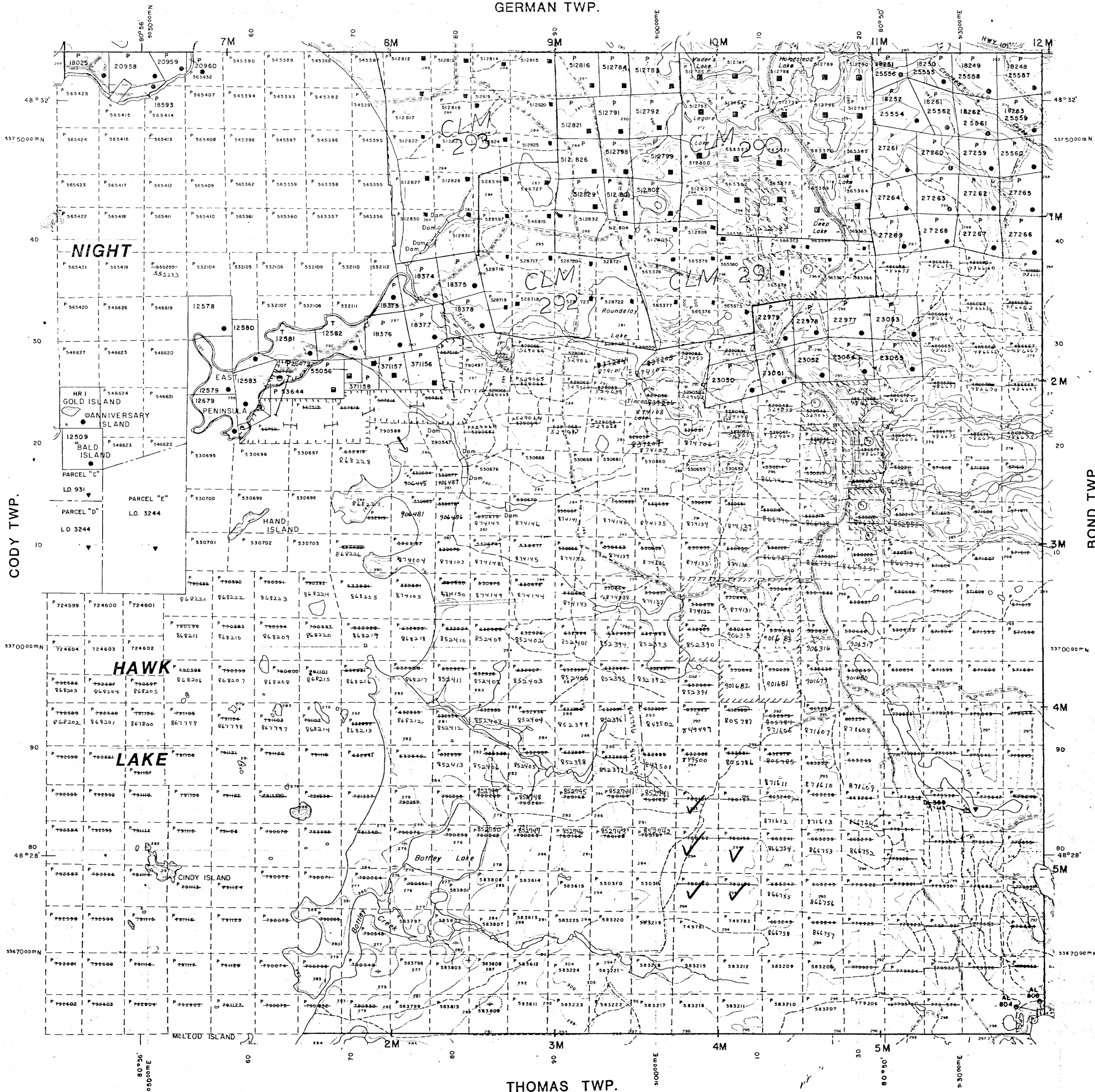
- M.R.O. - MINING RIGHTS ONLY
- S.R.O. - SURFACE RIGHTS ONLY
- M.+S. - MINING AND SURFACE RIGHTS

Description	Order No.	Date	Disposition	File
Site Preparation	05/02/83			77094 V.6

SAND and GRAVEL

- GRAVEL FILE 105381
- M.T.C. PIT 1121
- QUARRY PERMIT

GERMAN TWP.



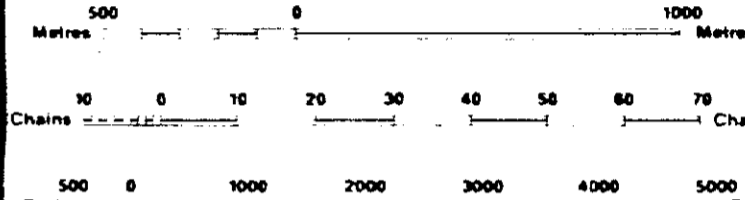
LEGEND

HIGHWAY AND ROUTE No.	
OTHER ROADS	
TRAILS	
SURVEYED LINES: TOWNSHIPS, BASE LINES, ETC.	
LOTS, MINING CLAIMS, PARCELS, ETC.	
UNSURVEYED LINES: LOT LINES, PARCEL BOUNDARY, MINING CLAIMS, ETC.	
RAILWAY AND RIGHT OF WAY	
UTILITY LINES	
NON PERENNIAL STREAM	
FLOODING OR FLOODING RIGHTS	
SUBDIVISION OR COMPOSITE PLAN	
RESERVATIONS	
ORIGINAL SHORELINE	
MARSH OR MUSKEG	
MINES	
TRAVERSE MONUMENT	

DISPOSITION OF CROWN LANDS

TYPE OF DOCUMENT	SYMBOL
PATENT, SURFACE & MINING RIGHTS	●
SURFACE RIGHTS ONLY	○
MINING RIGHTS ONLY	○
LEASE, SURFACE & MINING RIGHTS	■
SURFACE RIGHTS ONLY	■
MINING RIGHTS ONLY	■
LICENCE OF OCCUPATION	○
ORDER-IN-COUNCIL	○
RESERVATION	○
CANCELLED	○
SAND & GRAVEL	○

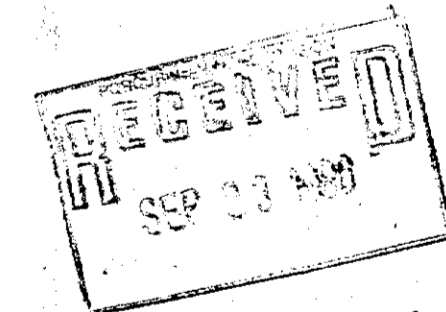
NOTE: MINING RIGHTS IN PARCELS PATENTED PRIOR TO MAY 6, 1913, VESTED IN ORIGINAL PATENTEE BY THE PUBLIC LANDS ACT, R.S.O. 1970, CHAP. 380, SEC. 63, SUBSEC. 1.



SCALE 1:20 000
GRID ZONE 17

Reserve flooding rights on Night Hawk Lake to Ontario Hydro to elevation 903.5', T.B.N.D. datum.

Area Withdrawn (MR + SR)
from Staking 7 section 36 Mining Act.
R.S.O. 1980
See N.R.W. 10/85



Rec'd June 23/85
TOWNSHIP

MACKLEM

M. N. R. ADMINISTRATIVE DISTRICT

TIMMINS

MINING DIVISION

PORCUPINE

LAND TITLES / REGISTRY DIVISION

COCHRANE

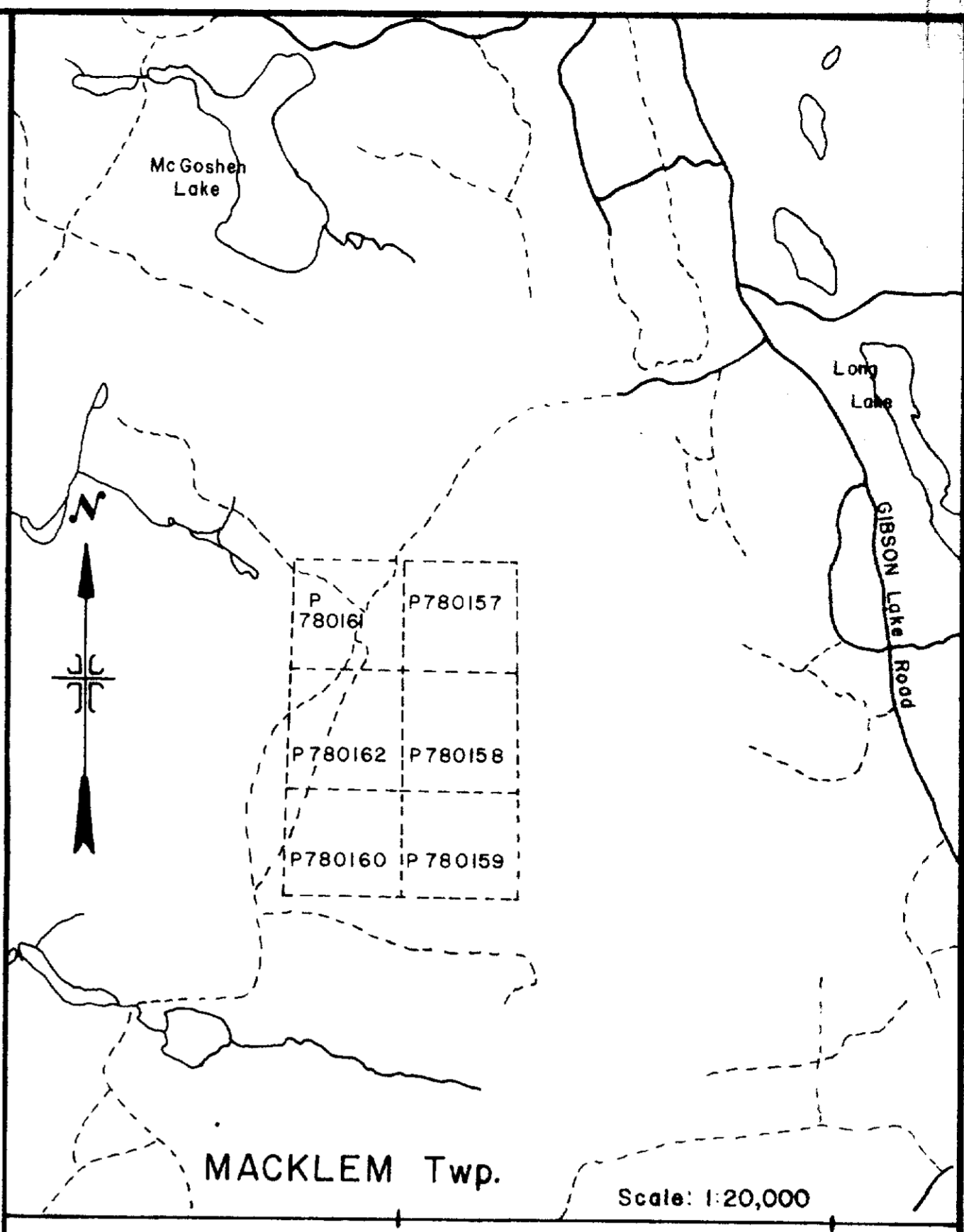
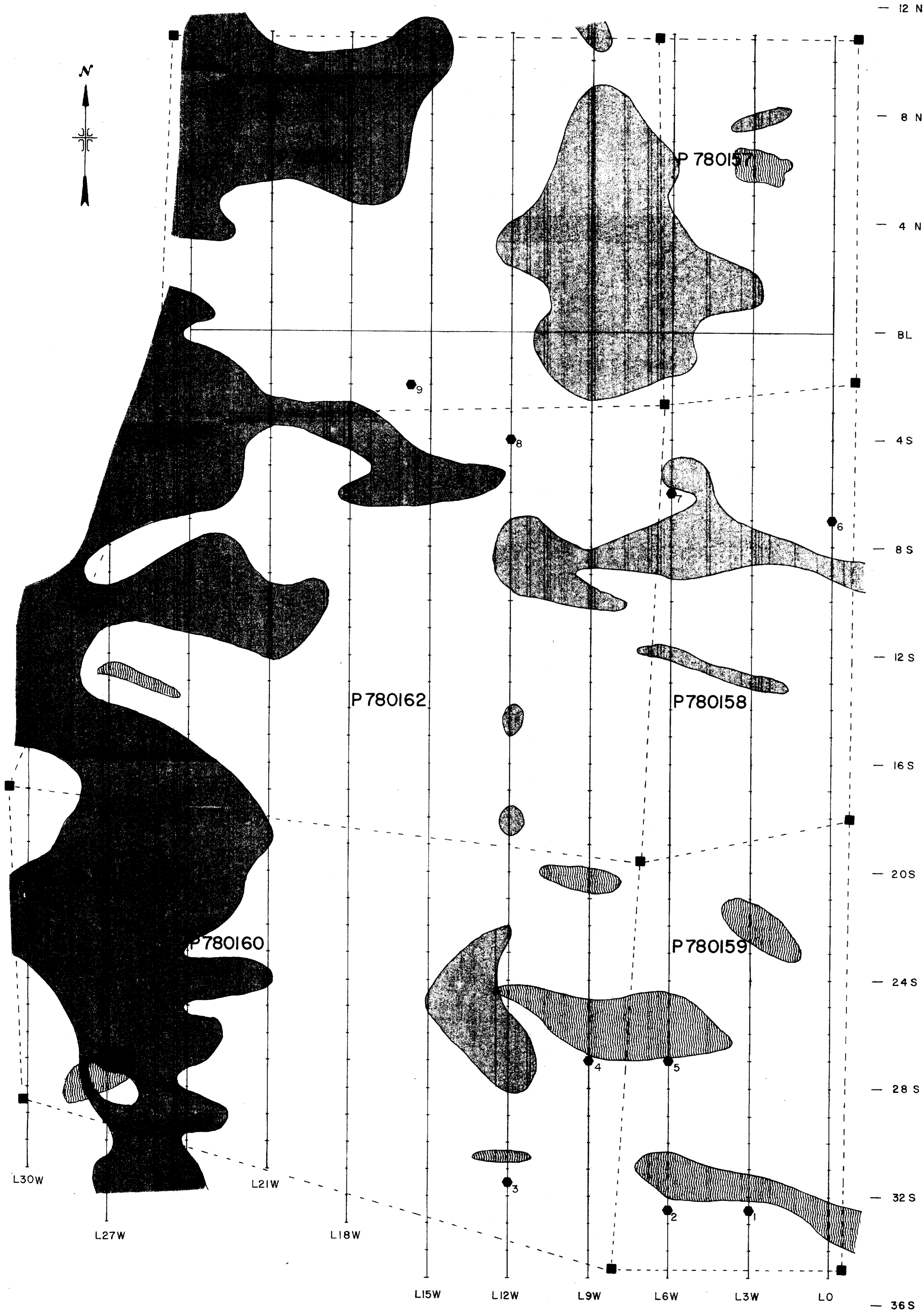


ORIGINAL COMPILATION JULY 1984

REVISED

Number
G-3997





THOMAS Twp.
MACKLEM Twp.
Scale: 1:20,000
4 M 5 M
LOCATION MAP

LEGEND

- Overburden Drill Hole Location
- Magnetometer Anomaly (>220 gammas)
- ▨ VLF-EM Fraser Filter Anomaly (>10)

HILTON RESOURCE Corp.

COMPILATION

Property: Long Lake - West Block

Township: MACKLEM N.T.S. 42 A/7

Drawn by: W. MacRae Date: 16/04/86

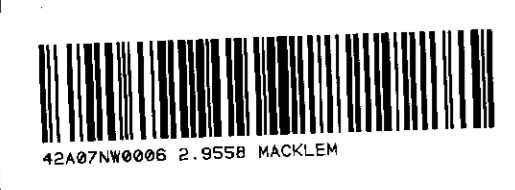
Scale: 1" = 200'

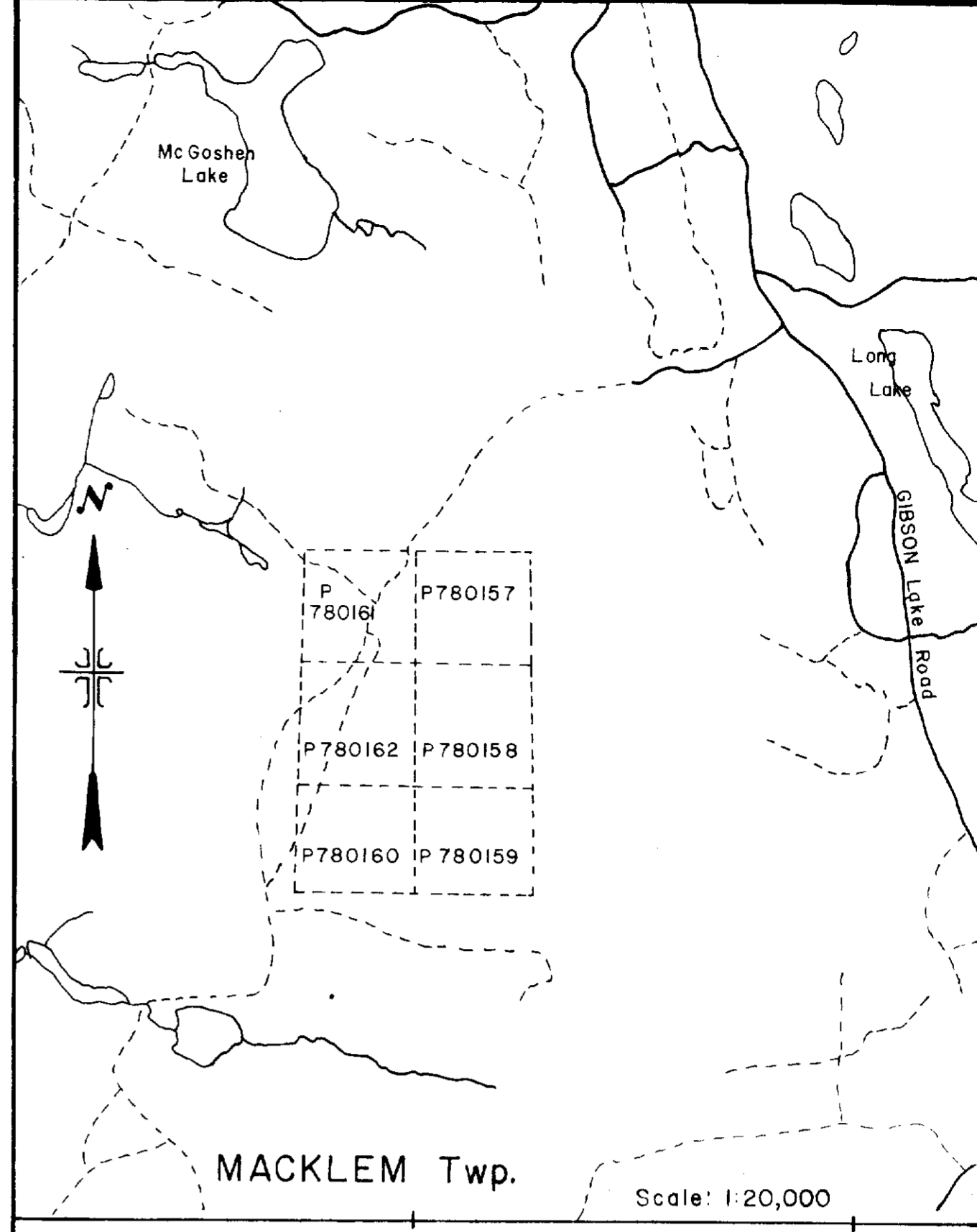
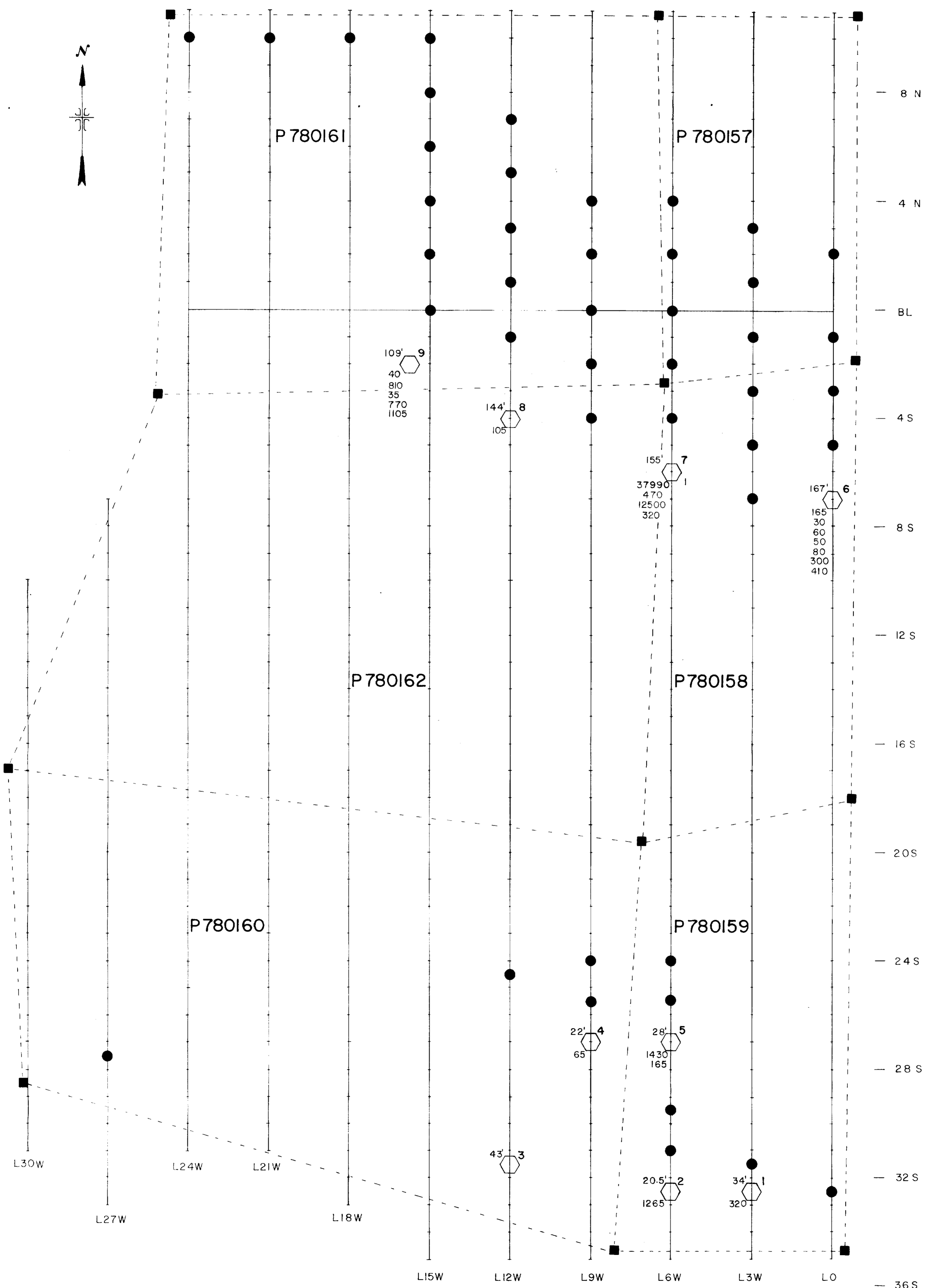
Revised:

Drawing No.: 1

WEM William E. MacRae Geological Services

W. MacRae
2-9508





4 M 5 M
THOMAS Twp.
LOCATION MAP

LEGEND

Overburden Depth 33' Overburden Hole Number
 Au (ppb) in Heavy Mineral Concentrate from Till 1105 Gold Grain Count in Till

● Proposed Overburden Drill Hole

HILTON RESOURCE Corp.

Overburden Drilling Results & Proposed Holes

Property: Long Lake - West Block

Township: MACKLEM N.T.S. 42 A/7

Drawn by: W. MacRae Date: 16/04/86

Scale: 1" = 200'

Revised:

Drawing No.: 2

WEN William E. MacRae Geological Services

