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INTERIM EXPLORATION REPORT
EMERALD ISLE RESOURCES INC.
CHESTER TOWNSHIP PROPERTY
ONTARIO

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MINING LANDS SECTION

NOVEMBER 16, 1985

David W. Constable, H.BSc., F.G.A.C.

SUDBURY, ONTARIO

SUMMARY

Emerald Isle Resources Inc. owns a contiguous block of 17 unpatented mining claims in west-central Chester Township, Porcupine Mining Division, Ontario. The claims cover approximately 560 acres and are accessible via paved and fair-weather bush roads.

The property lies within the Swayze Greenstone Belt, an intercalated sequence of Archean metavolcanics and metasediments intruded by younger Archean intrusions. Gold was discovered in the belt in 1930 in Chester Township and is related to quartz-filled shear zones primarily in the granite-diorite intrusions. Gold deposits are known on both sides of the subject property.

Previous work in the area traced, sampled and developed the gold-bearing shears. Emerald Isle Resources

Inc.'s property should contain extensions of known east-west shears or new zones. In 1985, in an attempt to locate these targets, Emerald Isle completed linecutting, EM-VLF and geological surveys. This was followed up by a prospecting phase which located a new shear zone which was found to be gold-bearing. The shear zone was trenched, blasted, sampled and mapped. Gold values ranged from 0.003 to 1.219 ounces per ton gold along at least 320 feet.

Based on this new gold discovery and the potential for additional discoveries we have recommended an exploration PHASE II totalling \$78,000.



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MAP IN POCKET

Stripping and Blasting Sketch
(Scale 1 inch = 20 feet)

INTRODUCTION

We have been asked by Mr. Ed Blanchard, President of Emerald Isle Resources Inc., to prepare this report in order to update and assess the present gold exploration program on the company's property and, if warranted, to recommend a further work program.

Emerald Isle Resources Inc. presently owns a contiguous block of 17 unpatented mining claims in west-central Chester Township, Porcupine Mining Division, Ontario. The claims cover roughly 560 acres and are presently in good standing. Access is excellent via highway 144 and main or auxiliary haulage roads across the property.

The claims lie in the Swayze Greenstone Belt, an assemblage of intercalated Archean metasediments and meta-volcanics intruded by younger Archean mafic to felsic intrusions. The sequence has been folded and faulted along the east-northeast trending zone.

Gold has been known in the belt since 1930 with the first spectacular native gold discoveries in Chester Township. The discoveries were primarily in quartz-filled shear zones and included associated pyrite, chalcopyrite, pyrrhotite, black tourmaline, sphalerite, bornite, covellite, malachite, azurite, molybdenite, molybdite, tellurides,

native copper and native gold.

During 1985 Emerald Isle Resources Inc. has initiated linecutting, EM-VLF and geological surveys over the entire group. Several possible bedrock conductors were delineated as well as zones of alteration and mineralization. One such mineralized zone was newly discovered in claim P.734211 and was stripped along 320 feet and across 10 to 25 feet. The zone was also opened by blasting and grab samples ran from 0.016 to 1.219 ounces per ton gold. The zone remains open along strike.

During the course of the report's preparation we utilized Ontario Government reports, maps and assessment files and company reports.

PROPERTY DESCRIPTION, LOCATION, ACCESS,
PHYSIOGRAPHY AND FACILITIES

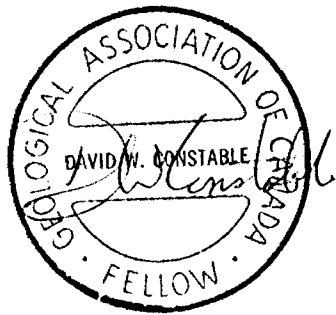
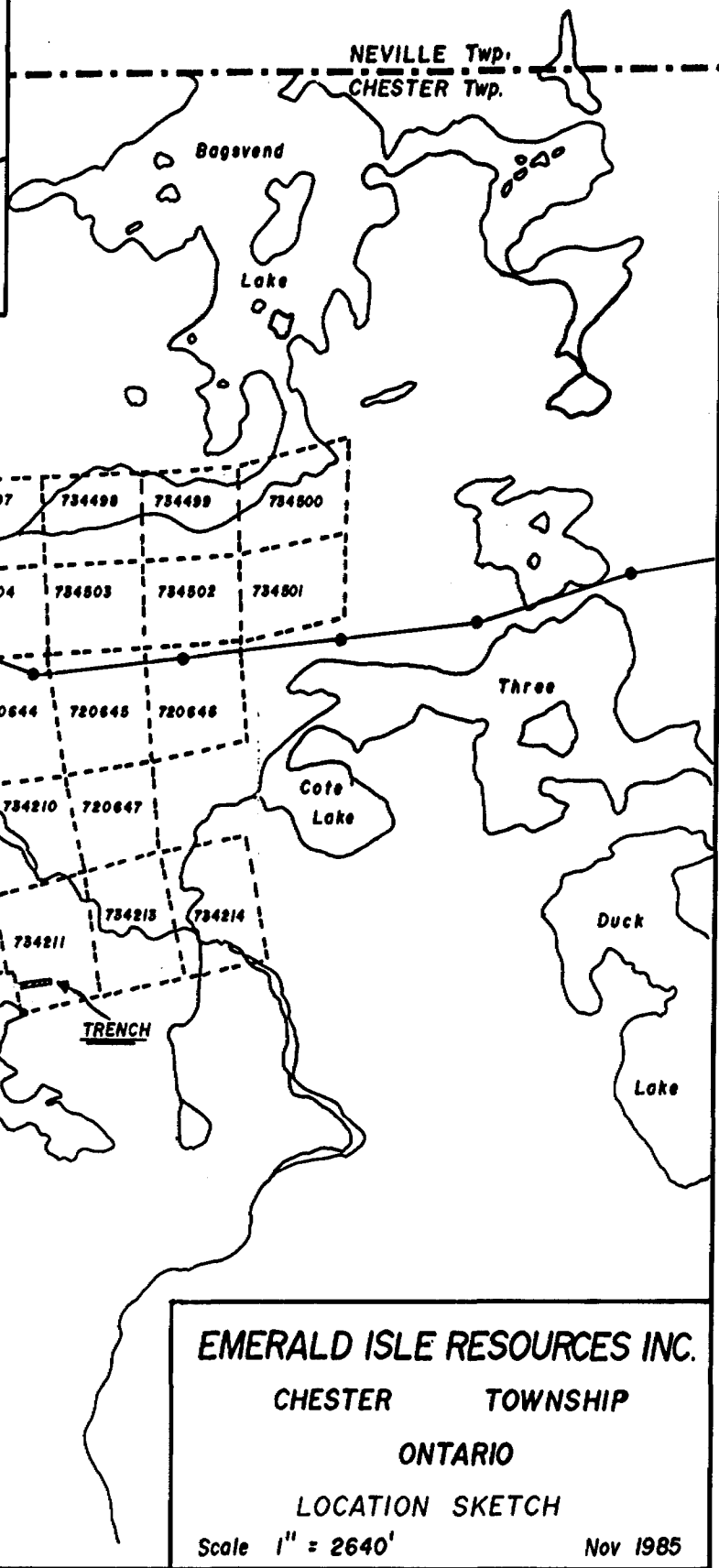
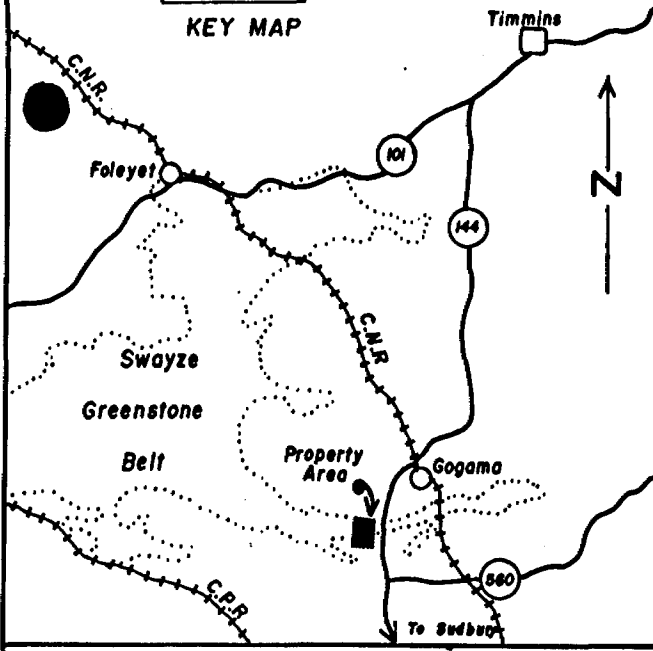
The Chester property consists of a contiguous block of seventeen (17) unpatented mining claims (See FIGURE 1) covering an area of roughly 560 acres in west-central Chester township. All the claims were recorded on December 21st, 1983 and are presently in good standing. They each required 20 assessment man-days of work on their first anniversary and 40 man-days on their subsequent anniversaries. The subject claims were purchased by Emerald Isle Resources Inc. and the claims are presently recorded and 100-percent owned by Emerald Isle Resources Inc.

The Chester township claim block is located 13 miles southwest of the village of Gogama, approximately 70 miles southwest of Timmins and 80 miles northwest of Sudbury. More specifically, the claims are at latitude $47^{\circ}33'30''$ north and longitude $81^{\circ}56'45''$ west near the Chester-Yeo townships' boundary.

Access is via highway 144 south from Timmins and north from Sudbury to a point 22 miles south of Gogama. Eddy Paper Products Limited's main haulage road heads westward from this point and at the 2-mile junction another haulage

0 20 Miles

KEY MAP



EMERALD ISLE RESOURCES INC.

CHESTER TOWNSHIP

ONTARIO

LOCATION SKETCH

Scale 1" = 2640'

Nov 1985

road, marked Chester township, heads northward 7 miles to the southern boundary of the subject property. Smaller bush roads allow access to the balance of the group. Access is also available from the C.G.M. Camp on Mesomikenda Lake on highway 144, 12 miles south of Gogama, thence westward along the bushroad to Three Duck Lake and Clam Lake, a distance of 6 miles to the property. This bushroad meets Eddy Paper Products Limited's haulage road near the property's southern boundary.

The topography is typical of the Canadian Precambrian Shield, namely moderately low with relief seldom exceeding 50 feet. The height of land passes along the southern boundary of Chester township, thus all the streams in the property area drain northward toward James Bay. The soil coverage is extremely variable due to the presence of extensive but erratic glacial deposits. Generally, overburden seldom exceeds 25 feet in depth but locally may be 200 feet deep. Overburden is a mixture of sand and silt moraines, tills, clays and muskeg. Much of the timber has been recently removed in Chester township and the remaining forest is immature. Jackpine is the dominant tree with isolated stands of white and red pines. Poplars, tamaracks, birches, black spruce, balsam and alders are also present.

The last observed ice movement was from north to south.

Timber and water are sufficient for a mining operation, hydro could be brought 6 miles from highway 144 where a large hydro line crosses the highway. The nearest town is Gogama, 16 miles away, but Timmins, (70 miles away), would be the nearest community with the resources necessary for a mining operation, including extensive custom gold milling capacity. The main transcontinental Canadian National rail line is 12 miles eastward while the main Canadian Pacific rail line is approximately an equal distance southwestward. Roads could easily be upgraded for any mining operation.

EXPLORATION HISTORY

The Swayze area has been the focus of gold exploration since the early 1900's as a spillover from the Porcupine and Elk Lake-Shining Tree Camps. The first real success in the area occurred in the summer of 1930 when a spectacular free gold showing was found by Alfred Gosselin on the east shore of Three Duck Lake, Chester township. This led to an influx of prospectors in 1930-31 resulting in a flurry of gold discoveries, chiefly in the Three Duck and Clam Lakes area. The discoveries were mostly quartz veins in granites. In addition to gold, significant quantities of copper (chalcopyrite) are present in the vein systems together with pyrite, pyrrhotite, black tourmaline, sphalerite, bornite, covellite, malachite, azurite, molybdenite, molybdite, native copper and tellurides. Gangue minerals include quartz, calcite, ankerite and sericite. The vein structures trend east-west and along strike they pinch and swell from hairline fractures to several feet wide.

The first record of work in the area consists of a 1934 consultant's report on Young Shannon Gold Mine Limited's property east of the subject property on Coté Lake. The 1934 report describes the geological setting of the gold showing. Earliest work on this prospect consisted of stripping and trenching in 1930-31 by the Three Ducks Syndicate. In 1932

the Martin Syndicate completed diamond drilling, but no details are available. Additional pitting, trenching and 600 feet of drilling were completed in 1935 and the 1934 consultant report's recommendation to sink and drift on the showing was carried out in 1936. The shaft was sunk to 200 feet with 172 feet of lateral development on the 100-foot level and 2196 feet of diamond drilling. All this work was done by Young Shannon Gold Mines Limited. In 1937, 160 feet of lateral development was completed on the 200-foot level and 500 feet of diamond drilling. In addition a 20-ton mill was installed. No production is recorded. In 1941 Young Shannon Gold Mines Limited completed a diamond drilling program and in 1944 a geophysical survey. More diamond drilling was completed in 1946 but again no public record of this drilling is available. In 1964 Chester Minerals Limited completed geological mapping and in 1965 performed a geophysical survey. According to the Gold Deposits of Ontario, Part 2 (Ontario Mineral Deposits Circular Number 18, 1979) the work outlined a zone 70 feet long, 3 feet wide and 250 feet deep containing 3,680 tons averaging 0.46 ounces per per ton gold with minor silver and copper values. In 1980 Erana Mines Limited established an 85-ton custom gold mill and, in addition to milling material from other showings a

small tonnage was raised from the Young Shannon deposit. During our recent visit to the property we were able to find several samples of free gold on a pile of mineralized material from the Young Shannon deposit.

The first written record of work on the Chester Shannon prospect located a half claim west of the subject property is a 1938 consultant's report for Clam Lake Gold Mines Limited. The report describes drill results on the property in a shear zone striking N63⁰W and dipping 45⁰ northward.

Gold values ranged from 4.37 to trace ounces per ton gold over widths from 5.5 inches to 39 inches, respectively. The property was discovered in 1927 and in 1931 had stripping, trenching and diamond drilling performed by the Chester Shannon Syndicate. In 1932 the zone was traced for 200 feet along strike and four diamond drill holes tested the vein to the 500-foot depth. A ten-ton metallurgical test was taken in 1932 and yielded 3.40 ounces per ton gold, 3.40 ounces per ton silver and 4.68 per cent copper (Ontario Government Technical Survey File Number 63.2957).

In 1933 a new zone was discovered on the west shore of Clam Lake and it was stripped and test pitted. In 1938 eleven (11) diamond drill holes were drilled. It was

this drill program which was described in the 1938 consultant's report. In 1965 geological and electromagnetic surveys were completed and in 1971 an induced polarization program was followed by limited diamond drilling. The main zone is 260 feet long, and while widths are up to 24 feet, the average is only 1.5 feet. Below 115 feet (vertically) the shear becomes erratic. The west zone extension is comprised of irregular quartz lenses, striking $N78^{\circ}W$ and dipping 54° north, which lie at the contact between quartz porphyry and lamprophyre. The west zone has been exposed along 440 feet and consists of siderite, ankerite, quartz, biotite, pyrite, chalcopyrite and native gold.

During our recent visit to the property we took a grab sample from the shaft showing (2) and it returned 0.354 ounces per ton gold. There is presently an old headframe on the property, however all the buildings have been removed or destroyed.

The Shannon Island prospect is also located in Clam Lake but on an island, south of the Chester Shannon prospect. This property was trenched in 1933 and a 26-foot pit put down by Young-Shannon Gold Mines Limited. In 1934 a two-compartment shaft was sunk to 100 feet. Lateral development on the 100-foot level totalled 100 feet and

3000 feet of diamond drilling was also completed, all by Young-Shannon Gold Mines Limited. In 1973 Park Precious Metals Incorporated initiated geophysical surveys with follow-up drilling. They also dewatered the shaft and old workings for resampling. Best values in the shaft ranged from 0.32 to 1.82 ounces per ton gold and from 1.61 to 6.66 percent copper. No widths are given for the assays. (Ontario Mineral Deposits Circular Number 18).

On Emerald Isle Resources Inc.'s Chester township property are several mineral showings. One situated in claim P.720645 described as being "a 56-foot section of massive fine-grained andesite or latite.....fairly heavily sulphidized" (Siragusa, 1981). No assay values are given. Another showing in claim P.734210 consists of a trenched vein 4 to 6 feet wide which yielded values in grab samples of 3 to 9 percent copper and 0.24 ounces per ton gold. (Siragusa, 1981). There is no record of drilling on this prospect however recent attempts to locate this showing have failed. The showing in claim P.734213 was from the core of diamond drill hole 3-71 drilled in 1971 by Coniston Holdings and Explorations Limited. From 276 to 403 feet the core is logged as "Various acidic rocks, sheared, brecciated and fractures; sulphides, including chalcopyrite mainly in

brecciated sections. Minor native copper widespread." (Siragusa, 1981). No assays are given. Finally in claim P.734211 a gold-telluride showing consists of two auriferous quartz veins occupying well-defined fractures in granodiorite "the southern vein is 2 feet wide and contains pyrite, chalcopyrite, native gold and tellurides. A chip sample assayed 6.12 ounces per ton gold" (Siragusa, 1981). No diamond drilling is reported on this showing. During the course of our property examination we discovered and sampled a number of new mineralized shear zones and/or quartz veins. The results are summarized below:

<u>Sample</u>	<u>Area or Number</u>	<u>Gold (ppbs)</u>	<u>Gold (ounces per ton)</u>
9351	Area 1	1406	0.041
9352	Area 2	66	---
9353	Area 1	3	---
9354	Showing 5	63	---
9356	Area 3	43	---
9357	Showing 5	18	---
9358	Area 3	43	---
9359	Area 3	27	---
9360	Area 4	2091	0.061
9361	Area 1	714	0.021
9362	Area 2	25	---
9363	Area 2	687	0.02

On Emerald Isle Resources Inc.'s Chester township property sporadic work has been completed as a result of its strategic position between several old gold prospects whose possible extensions trend from east-west to west-northwest. The possible extensions of these zones could lie under Emerald Isle Resources Inc.'s property. This suggestion is further encouraged by the presence of gold values on the subject property in a geological environment characteristic of the area.

The first recorded work on Emerald Isle Resources Inc.'s property was in 1965 for Shannon Minerals Limited. The report by W. Walker reported the results of a geological survey on the southern seven claims of the subject group. He also reports an electromagnetic survey (Ronka Mark III) which failed to define any strong conductors. In 1966 Chester Minerals Ltd. drilled five holes in the southern 7 claims of the subject block. These holes cut a succession of sheared andesites, dacites and diorites with quartz veins, carbonates and mineralization. No assays are reported. Most work up to 1965 was for gold, however several companies tried to find porphyry copper - molybdenum - gold - silver deposits. In 1970 Gogama Minerals Limited attempted exploration for porphyry-type deposits over the central portion of Emerald

Isle's property. They completed geological, EM-VLF and induced polarization surveys. The latter results were never submitted while the former results yielded several weak to moderate conductors.

Also in 1970 Darwin Mines Limited held the northern part of the subject claims and again an electromagnetic (EM-16) survey was completed delineating only weak to moderate conductors. Drilling was never completed and there is no record of a recommended induced polarization survey. In 1971 Gogama Minerals Limited completed three holes; 1-71, 2-71 and 3-71; on claims 734212 and 734214. The holes intersected sheared and brecciated granodiorites with pyrite, chalcopyrite, pyrrhotite, covellite, and chalcocite in quartz-filled shear zones. Assay results were not shown.

In 1979 Canadian Crest Gold Mines Ltd. held a block of 9 claims which cover the centre of Emerald Isle's property. Some trenching was reported on claims 720646 and 734210. Assays were not given. Also in 1979 Canadian Crest Gold Mines Ltd. drilled two holes in claim 734210. The holes cut sheared diorite and quartz-diorite porphyry with up to 10 percent pyrite and chalcopyrite present over 6 feet. Although split for assay no assays are recorded.

The Emerald Isle Resources Inc. property has been the object of sporadic work, firstly and most successfully in the 1930's by prospecting for gold-copper-quartz shears in granites, granodiorites and quartz-diorites. The second pulse of exploration activity was from 1965 to 1979 when geophysics and diamond drilling were utilized to test for gold-copper-quartz shear zones and for porphyry copper-molybdenum-gold-silver deposits. These attempts were not successful due to the unresponsiveness of the area's mineral deposits to electro-magnetic surveys.

REGIONAL PROPERTY AND ECONOMIC GEOLOGY

The Emerald Isle Resources Inc. Chester township property lies within the Canadian Precambrian Shield's Superior Province, the host for numerous base metal and precious metal deposits. More particularly, the property is located in the Swayze Greenstone Belt, an area of Archean metasediments and metavolcanics which lies southwest of Timmins. The Swayze Greenstone Belt is 60 miles long from north to south and 40 miles wide at its widest. The belt is roughly bounded on the north and west by highway 101, on the east by highway 144, and on the south by the Canadian Pacific transcontinental rail line. (See FIGURE 1). Intercalated Archean metasediments and metavolcanics comprise the majority of the belt. They strike 080° to 110° and dip steeply. The metasediments include polymictic conglomerates, argillites, arkoses, sulfide and/or oxide facies iron formations and cherts; the metavolcanics include mafic flows, felsic flows, agglomerates, pyroclastics, breccias and sub-volcanic porphyries. The entire assemblage has been tightly folded with fold axes sub-parallel to the regional strike and axes' plunges shallow ($15-30^{\circ}$) in either direction. The folding has imparted a pervasive S_1 cleavage to the less competent rocks, which in most cases is parallel to local bedding and is often

indistinguishable from bedding. Faulting is common and can trend in almost any direction. Locally, regional faults trend northeast, north and northwest. Strike-slip faults are common and fault structures are extremely important for the development of gold deposits in the Swayze Belt. The metasediments and metavolcanics have been intruded by granitic to gabbroic intrusions, also of Archean age. It appears that the intrusions were either syn- or pre-deformation, because clearly some of the folding and related faulting affects the intrusions. The regional metamorphism is lower and upper greenschist facies, however contact metamorphic haloes around the intrusions are common.

Proterozoic-aged diabase dykes intrude all other rock units and trend northerly. The diabase dykes appear to intrude lamprophyre dykes where the two are present together.

On the following page is an idealized stratigraphic column for the Swayze Greenstone Belt:

PhanerozoicPleistocene and Recent

Fluvial, lacustrine and swamp deposits;
and silt and clay.

(unconformity)

PrecambrianProterozoic

Diabase Dykes
(intrusive contact)

Lamprophyre Dykes

(intrusive contact)

Archean

Felsic Intrusive Rocks including: granites,
granodiorites, trondhjemite, pegmatites and
monzonite

(intrusive contact)

Mafic Intrusive and Migmatitic Rocks including:
hornblende diorites, hornblende gabbro,
hornblendite, gneisses and migmatites.

(intrusive contact)

Subvolcanic Felsic Rocks including: feldspar
porphyry, quartz porphyry, quartz-feldspar,
porphyry and derived schist.

(extrusive contact)

Clastic Metasediments including: conglomerates
arenites, wackes and derived schists

(conformable contact)

Chemical Metasediments including: chert, cherty mudstone, ferruginous chert, sulfide and/or oxide facies iron formations

(conformable contact)

Felsic and Intermediate Metavolcanics including: massive or foliated flows, breccias, lapilli and ash tuffs and migmatitic pyroclastics.

(conformable contact)

Mafic Metasediments including: massive and foliated tholeiitic flows, pillowed flows, vesicular and/or amygdaloidal flows and derived schists and pyroclastics.

Emerald Isle Resources Inc.'s Chester township property lies on the extreme southeast "tail" of the Swayze belt in a narrow band of mafic metavolcanics and pyroclastics with a central core of Archean diorites. These units strike 100-110° and dip near vertically. The former unit grades laterally into recrystallized coarse-grained units which are locally called diorites or agamatic migmatites. Laird (1932) called these rocks the "granite - diorite complex" and "diorite breccia", respectively. The units contain abundant intermediate and felsic phases which appear to be the preferred locations of gold-bearing shear zones.

Siragusa (1981) regarded the pyroclastics as the "upper, and most likely calc-alkaline, section of a tightly folded synclinal volcanic sequence, the lower section of

which is represented by the northern and southern basaltic belts."

Granitic rocks flank the north and south basaltic belts and intrude much of central Chester township. Most of Emerald Isle's property is underlain by dioritic rocks and various phases. The unit ranges in composition from granite to diorite, it is generally fine-grained but may be porphyritic. The color index is high due to the presence of a large percentage of ferro-mag minerals. Blue quartz eyes are also observed in parts of the diorite complex. The granitic rocks in Chester township appear to have intruded the synclinal core. East-west to west-northwest trending shear zones cut the granites and vary in width from hairline to several feet wide. The shears are often mineralized with pyrite and chalcopyrite and contain quartz. Some shears can be traced along strike for hundreds of feet and will pinch and swell.

Gold deposits in the Swayze Greenstone Belt include the following types:

(a) Gold in quartz veins related to shear zones in metavolcanics and metasediments and shear zones in intrusions, e.g. The Orofino deposit.

(b) Gold in replacement zones in intrusions, e.g. The Orofino deposit.

(c) Gold in chemical sediments (cherts and iron formations), e.g. Woman River Gold showing.

(d) Gold in sulfides disseminated along sheared contacts, e.g. The Jerome deposit.

Emerald Isle Resources Inc.'s Chester township property contains gold in quartz-filled shears in west-north-westerly trending shears in granodiorites (Type a). Also associated with the gold, which is in a free state, is pyrite, pyrrhotite, chalcopyrite, black tourmaline, sphalerite, bornite, covellite, malachite, azurite, molybdenite, molybdite, native copper and tellurides. The shears range in width from inches to tens of feet. Alteration may include hematization, feldspathization, silicification and carbonatization. The shears may also trend northwest and east-northeast but are dominantly west-north-westerly. The deposits by their nature will be of limited tonnage but of high grade.

The area's mineralization, according to a 1931 Ore Dressing and Metallurgical Laboratories' report could be successfully treated by amalgamation followed by flotation.

PRESENT WORK PROGRAM AND RESULTS

During 1985 Emerald Isle Resources Inc. completed linecutting, EM-VLF and geological coverage of the entire group. Linecutting was on 200- and 400-foot line intervals from an east-west baseline. All lines were cut, chained and picketed. The EM-VLF surveys utilized an EM-16 Geonics instrument and both Cutler, Maine and Annapolis Maryland stations were read. These surveys delineated several weak to moderate, east-west conductors of which these few were considered to be of possible bedrock sources.

<u>Conductor</u>	<u>Lines</u>	<u>Stations</u>
Conductor B	16W to 24W	15N to 17N
Conductor F	28W to 32W	4N to 6N
Conductor G	4W to 6W	7N
Conductor I-J	24W to 34W	0 to 2S
Conductor K	26W to 32W	5S
Conductor O	28W to 30W	14S to 16S
Conductor T	34W to 38W	26S

A geological survey utilizing the cut lines as control outlined several areas of mineralization and/or alteration. These areas include pyrite, chalcopyrite showings on line 30W (75), 20W (16S), 28W (21 + 50S), 30W (23S) and 28W (24S).

A preliminary prospecting follow-up of these showings in the fall of 1985 found a series of pyrite, chalcopyrite, malachite and quartz-filled shear zones near line 30W at 28S. Grabs of these samples yielded gold values up to 0.250 ounces per ton gold. A 350 backhoe was mobilized to the site and after spending 6 days there together with a geologist, and helper uncovered the zone along a distance of 320 feet (See Map In Pocket). The zone consisted of sheared quartz veins containing pyrite, chalcopyrite, malachite and tellurides. These quartz veins were from 2 inches to over 1-foot wide. Surrounding the quartz veins was a wide area of shearing, rust and alteration including breccias, shears and mineralized fracture sets in a quartz diorite. Alteration included carbonatization, silicification and quartz eyes. The quartz veins varied from 0.12 to 1.219 ounces per ton gold. The attendant wallrock values ranged from 0.016 ounces per ton gold in mineralized fracture sets and 0.003 ounces per ton gold in sheared chloritic rock to 0.075 ounces per ton gold in quartz - carbonate - sulfide-filled shears in quartz diorite. The zone trends 080° (Ast.) around the road and trends 100° (Ast.) in the eastern portion. To the east the zone is open but drops into a swamp, while to the west a large pile of logs stopped the trenching of an otherwise

open zone. The zone was plugger-drilled in four spots and blasted in order to facilitate sampling of fresher material.

It is the author's opinion that further prospecting of the property will yield additional shear zones which can again be stripped and blasted.

CONCLUSIONS, RECOMMENDATIONS AND COST ESTIMATES

Emerald Isle Resources Inc.'s Chester township property is strategically situated between known gold deposits which are related to east-west trending quartz shears in diorites. One gold showing is known on the subject property, however 1985 work has discovered, exposed and sampled a new gold showing containing gold values from 0.003 to 1.219 ounces per ton related to quartz-filled shearing in a quartz diorite. The zone was exposed for over 300 feet along strike and remains open.

Based on the new gold discovery and on the excellent potential for additional gold zone discoveries we are recommending a single phase exploration program totalling \$78,000.

PHASE IIProspecting & Sampling of Selected Areas

12 days @ \$500 per day
 (Includes two men, costs and
 assaying) \$ 6,000

Stripping and Blasting

20 days @ \$1000 per day
 (Includes two men, equipment
 rentals and fuel) 20,000

Diamond Drilling (BQ Core)

2500 feet @ \$17. per foot
 (Includes all drilling costs
 and core boxes) 42,500

Assaying

200 samples @ \$12.50 per sample 2,500

Contingencies (\approx 10%) 7,000

TOTAL OF PHASE II \$78,000

PHASE II is designed to locate, strip and sample further shear zones. The best surface shear zones will then be diamond drilled with short holes in order to assess the shear structures' dip continuity. Dependent on these initial diamond drill results a further exploration phase would expand the drill-testing of the zones.

Respectfully submitted,



David W. Constable, H.BSc., F.G.A.C.
Consulting Geologist

DATED THIS SIXTEENTH DAY OF NOVEMBER, 1985 AT SUDBURY, ONTARIO

CERTIFICATION

I, DAVID W. CONSTABLE, do hereby certify that:

1. I am a consulting geologist, president of Constable Consulting Inc., with offices at 10 Kingston Court, Sudbury, Ontario

2. I am a 1970 graduate of Mount Allison University, Sackville, New Brunswick with an Honours Bachelor of Science (Geology) degree and in 1970-71 performed a years post-graduate studies at Oxford University, England

3. I have been continuously employed in mineral exploration and development since graduation in Canada and parts of the United States

4. I have been a Fellow of the Geological Association of Canada since 1975 and a member of the Canadian Institute of Mining and Metallurgy and Prospectors and Developers Association

5. I have knowledge of Emerald Isle Resources Inc.'s Chester Township property based on many years experience in the general area and previous work and reports for Emerald Isle on the subject property

6. I have no interest, direct or indirect, in Emerald Isle Resources Inc., nor do I expect to receive any. I have disclosed all the facts which to the best of my knowledge might have a bearing on my recommendations for Emerald Isle Resources Inc.'s Chester Township property.

SIGNED AT Sudbury, Ontario the SIXTEENTH DAY on November, 1985.



David W. Constable, H.BSc., F.G.A.C.
Consulting Geologist

APPENDIX IBIBLIOGRAPHY

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Precambrian Geology of Chester and Yeo
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Limited Properties, Chester Township,
Ontario Department of Mines Property
Description

ONTARIO GEOLOGICAL SURVEYASSESSMENT FILES

<u>File Number</u>	<u>Year</u>	<u>Company</u>
T-2016	1938	Clam Lake Gold Mines Limited
T-2016	1939	Erie Canadian Mines
T-2016	1939	Sylvanite Gold Mines Ltd.
T-2034	1955	W. S. Savage
T-2034	1965	Shannon Minerals Limited
T-2020	1965	Gogama Gold Mines Limited
T-2023	1965	Chester Minerals Limited
T-2023	1966	Chester Minerals Limited
T-2013	1970	Darwin Mines Limited
T-2482	1970	Gogama Minerals Limited
T-2021	1970	Gogama Minerals Limited
T-2017	1971	Gogama Minerals Limited
T-2017	1972	Coniston Explorations Ltd.
T-2030	1973	Park Precious Metals Incorporated
T-1751	1979	Baxter Minerals Ltd.
T-1751	1981	Canadian Crest Mines Ltd.

APPENDIX II

ASSAY RESULTS

ASSAY REPORT

ATOMIC ABSORPTION

FOR EMERALD ISLE RESOURCES
Chester Twp.

DATE: October 16, 1985

FILE NO. 648

SAMPLE NO.	DESCRIPTION	Au - OZ/TON	Ag - OZ/TON	Cu %	Co %	Pb %	Zn %	Mo %
7301	Cu, Au showing No. 43	.009		.037				
7302	Quartz-Hematite sample from new trench	.137	.109					
7303	West end, surface sample of py-cpy-qtz from new trench	.120	.328	.111				
7304	surface sample from south end of new trench py-cpy-qtz	.531	.292	.211				
7305	New road blasted sample of narrow py-qtz fractures in diorite	.075						
7306	Chlorite-rich rock with malachite stains	.021		.050				
7307	blasted narrow py-qyz fractures in new trenches	.016						
7308	blasted py-cpy- gr-tell (?) from new trench	.305	.146	.244				
7309	blasted gossan zone with py-qtz	1.219	.510					
7310	on east side of road next to swamp	.248	.146	.144				

ASSAY REPORT

page 2.

ATOMIC ABSORPTION

FOR EMERALD ISLE RESOURCE
Chester Twp.

DATE: October 16, 1985

FILE NO. 648

SAMPLE NO.	DESCRIPTION	Au - OZ/TON	Ag - OZ/TON	Cu %	Co %	Pb %	Zn %	Mo %
7311	gossan zone east side of road near pond.	.038		.033				
7312	west side near road, chloritic rock with malachite	.003		.096				
7313	west side near road qtz with pyrite, same location as 7312	.286	.219					
7314		.483						
7315		.145						



41P12SW0062 2.8663 CHESTER

900

Mining Lands Section

File No 2.8663

Control Sheet

TYPE OF SURVEY _____ GEOPHYSICAL

_____ GEOLOGICAL

_____ GEOCHEMICAL

EXPENDITURE

MINING LANDS COMMENTS:

Signature of Assessor

Date

*L.D.
Rep*



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

435/85
2.8663

Instructions: - Please type or print.
- If number of mining claims traversed exceeds space on this form, attach a list.
Note: - Only days credits calculated in the "Expenditures" section may be entered in the "Expend. Days Cr." columns.
- Do not use shaded areas below.

Jan 11/86

The Mining Act

Type of Survey(s) Stripping, Blasting, Mapping and Sampling		Township or Area Chester Township	
Claim Holder(s) Emerald Isle Resources Inc.		Prospector's Licence No. T 1861	
Address 106 Fielding Road, Lively, Ontario			
Survey Company Constable Consulting Inc.	Date of Survey (from & to) 1 10 85 15 10 85		Total Miles of line Cut N/A
Name and Address of Author (of Geo-Technical report) David Constable, 10 Kingston Court, Sudbury, P3A 1C9			

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	
	Geochemical	

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

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

RECEIVED
NOV 22 1985

Mining Claims Traversed (List in numerical sequence)

Mining Claim			Mining Claim		
Prefix	Number	Expend. Days Cr.	Prefix	Number	Expend. Days Cr.
P	734214	60			
	734498	32.5			
	734499	32.5			
	734211	32.5			
	734212	32.5			

RECEIVED
JAN 08 1986
MINING LANDS SECTION

RECORDED
NOV 22 1985

Expenditures (excludes power stripping) *Sheet 77-19*

Type of Work Performed
Stripping, Blasting, Sampling, Mapping

Performed on Claim(s)
P. 734211

Calculation of Expenditure Days Credits

Total Expenditures \$ **2,850.85** Total Days Credits = **190**
See attached sheet 15

Total number of mining claims covered by this report of work. **5**

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.

For Office Use Only

Total Days Cr. Recorded 190	Date Recorded Nov 22/85	Mining Reporter <i>[Signature]</i>
	Date Approved as Recorded Nov. 22	Branch Director <i>[Signature]</i>

Date **Nov. 20/85** Recorded Holder or Agent (Signature)
[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
David W. Constable, 10 Kingston Court, Sudbury, Ontario P3A 1C9

Date Certified **Nov. 20/85** Certified by (Signature)
[Signature]



Mining Lands Comments

Is this a proper valuation? If so, which costs do consider acceptable as assessment work credits?

Sue
 Costs that are associated with work done on the trench. I think the expenditures requested are OK.

To: Geophysics

Comments

Approved Wish to see again with corrections

Date

Signature

To: Geology - Expenditures

C. Kuska

Comments

RECEIVED
 JAN 23 1986
 MINING LANDS SECTION

Approved Wish to see again with corrections

Date

Signature

Jan 24/86 C Kuska

To: Geochemistry

Comments

Approved Wish to see again v

Sue, I agree with Clarence
 need receipts only!
 a total of \$2850.85
 is allowed - R.

To: Mining Lands Section, Room 6462,

10 KINGSTON COURT
 SUDBURY, ONT. P3A 1C9
 TEL. (705) 566-5931

DATE November 19 1985

22969

RECEIVED FROM Emerald Isle Resources Inc.
Two Thousand Five Hundred Twenty Five ⁸⁵/₁₀₀ DOLLARS (\$ 2525.85)

FOR Assessment Work, Map and Report - INVOICE dated Nov 16/85

FROM Chester Twp Property TO Claris P-734214 et al

HOW PAID		ACCOUNT	
CASH		AMT. OF ACCT.	
CHEQUE	2525.85	AMT. PAID	
MONEY ORDER		BALANCE DUE	

BY David W Constable

BLUELINE D 71

SEANA MINE LTD.

DATE Oct. 19 1985

035664

RECEIVED FROM Emerald Isle Resources Inc.
Three Hundred & Twenty-five DOLLARS (\$ 325.00)

FOR Assay invoice # 648

FROM Chester Twp Claims TO

HOW PAID		ACCOUNT	
CASH	<input checked="" type="checkbox"/>	AMT. OF ACCOUNT	
CHEQUE		AMT. PAID	
MONEY ORDER		BALANCE DUE	

BY J. A. Finkle



Constable Consulting Inc.

TEL. (705) 566-5931

10 KINGSTON COURT SUDBURY, ONTARIO P3A 1C9

28663

February 18, 1986

RECEIVED

FEB 25 1986

MINING LANDS SECTION

Ms. Susan Hurst
Mining Land Section
Whitney Block
6th Floor,
Queens Park
TORONTO, Ontario
M7A 1W3

Re: Expenditure Proof in Mining Claims P.734214
et al, Chester Township.

Dear Ms. Hurst:

Enclosed please find duplicates of two receipts covering the expenditure of \$2,850.85. As I expressed to a co-worker of yours and intend to express to the minister, I do not see the difference between an invoice marked paid by me and a receipt marked paid by me as "proof" of payment. Rather I find it a bother and an unnecessary change in procedure.

Sincerely,

David Constable
Consulting Geologist

DC:kf

February 12, 1986

File: 2.8663

**Emerald Isle Resources
106 Fielding Road
Lively, Ontario
POM 2E0**

Dear Sirs:

**RE: Data for Expenditures submitted on
Mining Claims P 734214, et al, in
Chester Township**

**In order to complete the above-described submission, please
remit (in duplicate), receipts or cancelled cheques as proof
of payment for the \$2850.85 expenditure credits claimed.**

When submitting this information, please quote file 2.8663.

**For further information, please contact Susan Hurst at
(416) 965-4888.**

Yours sincerely,

**S.E. Yundt, Director
Land Management Branch**

**Mining Lands Section
Whitney Block, 6th Floor
Queen's Park
Toronto, Ontario
M7A 1W3**

Telephone: (416)965-4888

SH/mc

**cc: Mining Recorder
Timmins, Ontario
#435/85**

**David W. Constable
10 Kingston Court
Sudbury, Ontario
P3A 1C9**

1985 11 28

File: 2.8663

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

Dear Sir:

We received Data for Assaying on November 25, 1985 submitted under Section 77(19) of the Mining Act R.S.O. 1980 for Mining Claims P 734214, et al, in the Township of Chester.

This material will be examined and assessed and a statement of assessment work credits will be issued.

We do not have a copy of the report of work which is normally filed with your office prior to the submission of this technical data. Please forward a copy as soon as possible.

Yours sincerely,

S.E. Yundt
Director
Land Management Branch

Whitney Block, Room 6643
Queen's Park
Toronto, Ontario
M7A 1W3
Phone: (416)965-4888

AB/mc

cc: Emerald Isle Resources Inc
106 Fielding Road
Lively, Ontario
POM 2E0

David W. Constable
10 Kingston Court
Sudbury, Ontario
P3A 1C9

Encl.

EMERALD ISLE RESOURCES INC.
106 Fielding Rd.
LIVELY, Ontario
POM 2E0

November 21, 1985

Ministry of Natural Resources
Mining Recorder
Porcupine Mining Division
60 Wilson Avenue
TIMMINS, Ontario
P4N 2S7

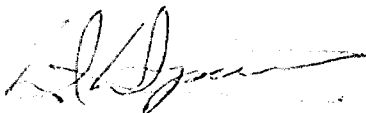
Attention: Mr. Bruce Hanley
Recorder

Dear Sir:

Enclosed is a Report of Work regarding claims in
Chester Township, along with two copies of the
Interim Exploration Report prepared by Constable
Consulting Inc.

If you have any questions, please contact us, or
Mr. Constable.

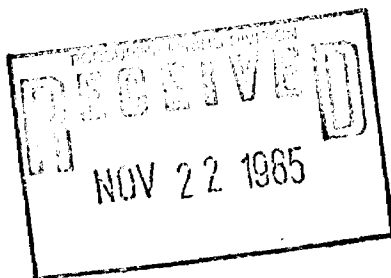
Yours truly,



EMERALD ISLE RESOURCES INC.
Per: D. A. Dupuis

DD:gc
Encls.

VIA COURIER #97403238



RECEIVED

NOV 25 1985

MINING LANDS SECTION

TIME AND EXPENDITURE BREAKDOWN

EMERALD ISLE RESOURCES INC.

CHESTER TOWNSHIP, ONTARIO

Stripping

Total Expenditures: \$1880.

At \$10.00 per man-day188 man-days

Drilling and Blasting

Mechanical: Total hours: 18

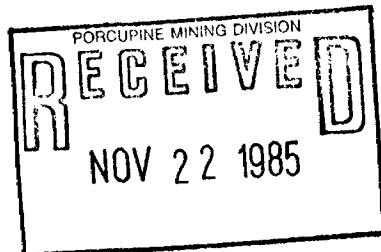
At 1 man-day for every 3 hours 6 man-days

Mapping, Sampling, Assaying and Report

Total Expenditures: \$2850.85

At \$15.00 per man-day190 man-days

Total man-days 384



(705) 682-0649
TELEX # 067-7261

ERANA MINES LIMITED

106 FIELDING RD., RR #2
LIVELY, ONTARIO POM 2E0

TO: Emerald Isle Resources Inc.
106 Fielding Road
LIVELY, Ontario
POM 2E0

INVOICE NO. EI-
DATE: Oct. 19/85

TERMS:

EQUIP. RENTAL:	<p>RE: <u>Chester Property</u> for <u>October 7, 8, 9 and 10/85</u></p> <p><i>expenditure</i> { <u>Rental of backhoe</u> 4 days X 10 hrs./day X \$35./hr. <u>Time for 1 man on backhoe-Roland Gervais</u> 4 days X 10 hrs./day X \$12./hr.</p> <p><i>mechanical</i> { <u>Rental of plugger-Oct. 9 and 10/85</u> 2 days X 9 hrs./day X \$13./hr. <u>Time for 1 man on plugger-Leo Restoule</u> Two days X 9 hrs./day X \$12./hr.</p>	<p>\$1,400.00 480.00 234.00 216.00</p> <hr/>	<p><u>\$2,330.00</u></p>
TOTAL OF INVOICE			

PAID OCT 31 1985



Constable Consulting Inc.

TEL. (705) 566-5931

10 KINGSTON COURT SUDBURY, ONTARIO P3A 1C9

November 16, 1985

Emerald Isle Resources Inc.
106 Fielding Road
Lively, Ontario

Gentlemen:

INVOICE: RE CHESTER TOWNSHIP PROPERTY

Sampling, Mapping and Report Preparation

TIME: D. Constable, Geologist

October 7, 8 9 and 10th:

4 days on site prospecting, mapping, and sampling
at \$350. per day \$1400. ✓

November 13, 15, and 16th:

3 days Map Drafting, Report Writing
@ \$300. per day 900. ✓

TIME: Secretary

Typing Report and Corrections

6 hours at \$10.00 per hour 60. ✓

SUB TOTAL TIME \$2360.

PAID NOV 19 1985

DISBURSEMENTS

Vehicle Mileage:

550 kms x 20¢/km \$ 110. ¹⁰⁰

Report Covers: 6 covers @ \$4.00 per cover..... 24.

Map Copying 7.20

Report Copying 24.65

SUB TOTAL DISBURSEMENTS \$ 165.85

GRAND TOTAL OF INVOICE \$2525.85

PAID NOV 19 1985

(705) 682-0649
TELEX # 067-7261

ERANA MINES LIMITED

106 FIELDING RD., RR #2
LIVELY, ONTARIO POM 2E0

TO: Emerald Isle Resources Inc.
106 Fielding Road
LIVELY, Ontario
POM 2E0

INVOICE NO. EI-51
DATE: Oct. 16/85

TERMS:

LAB.:

expenditures

Assay Report #648
(Chester Township Property)

\$325.00

PAID OCT 19 1985



The Mining Act

Form header section containing: Type of Survey(s) Stripping, Blasting, Mapping and Sampling; Township or Area Chester Township; Claim Holder(s) Emerald Isle Resources Inc.; Address 106 Fielding Road, Lively, Ontario; Survey Company Constable Consulting Inc.; Date of Survey (from & to) 1 Day, 10 Mo., 85 Yr. to 15 Day, 10 Mo., 85 Yr.; Total Miles of line Cut N/A; Name and Address of Author (of Geo-Technical report) David Constable, 10 Kingston Court, Sudbury, P3A 1C9

Special Provisions, Man Days, Airborne Credits section. Includes instructions for survey days and a 'RECEIVED' stamp dated NOV 22 1985.

Mining Claims Traversed (List in numerical sequence) table with columns: Mining Claim Prefix, Mining Claim Number, Expend. Days Cr. Contains entries for claims P 734214, 734498, 734499, 734211, 734212.

Expenditures (excludes power stripping) section. Type of Work Performed: Stripping, Blasting, Sampling, Mapping. Performed on Claim(s): P. 734211. Calculation of Expenditure Days Credits: Total Expenditures \$see attached sheet 15 = Total Days Credits.

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

Instructions section: Total Days Credits may be apportioned at the claim holder's choice. Enter number of days credits per claim selected in columns at right.

For Office Use Only section. Includes fields for Date Recorded, Mining Recorder, Date Approved as Recorded, Branch Director.

Certification Verifying Report of Work section. 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: David W. Constable, 10 Kingston Court, Sudbury, Ontario P3A 1C9. Date Certified: Nov. 20/85. Certified by (Signature): [Signature]

REFERENCES

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
(R) S.F.C. 36/80		19/2/80	S.R.O.	171509

(R) S.F.C. 36/80 19/2/80 S.R.O. 171509

SAND AND GRAVEL

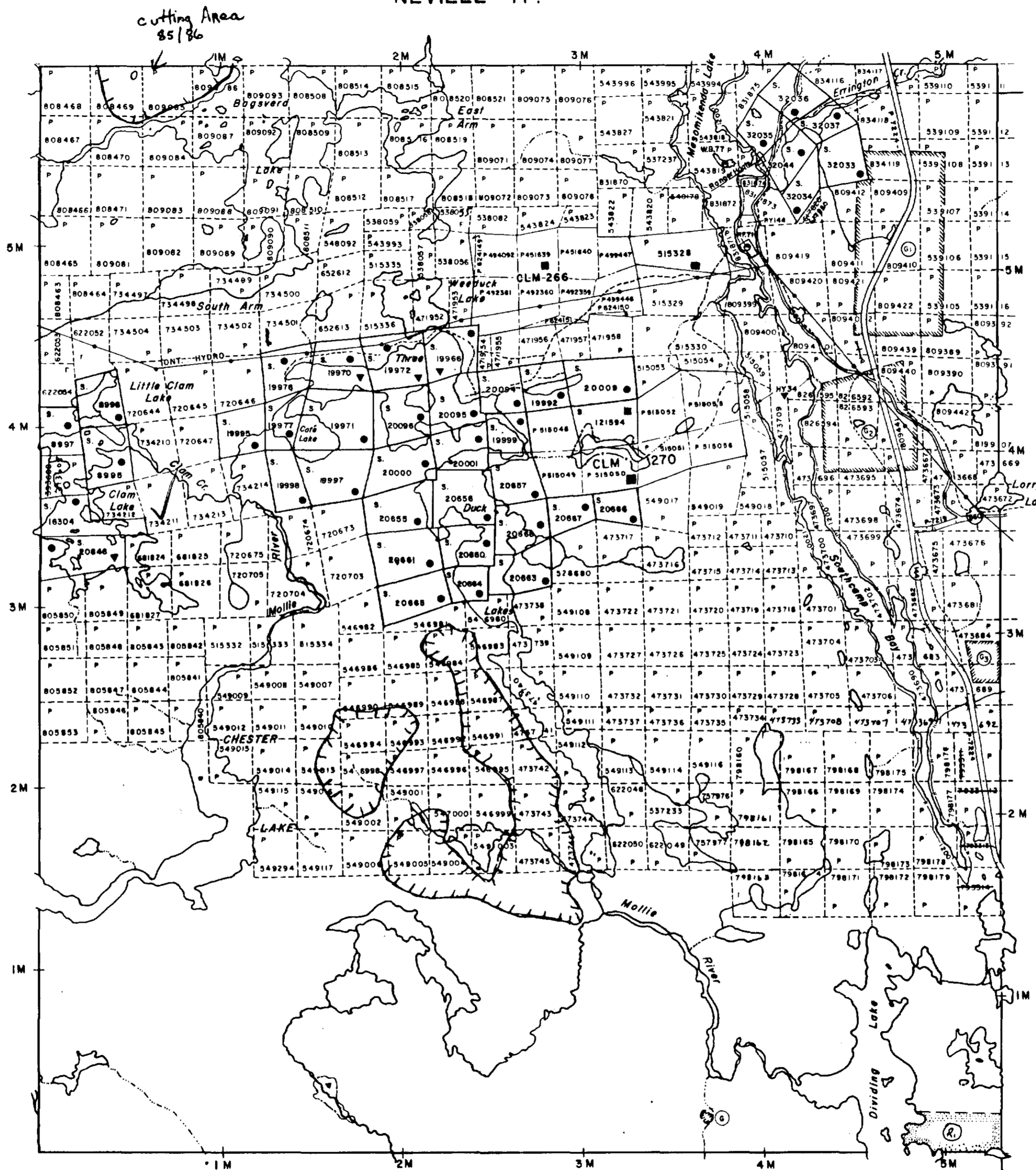
- (C) QUARRY PERMIT
- (B) M.T.C. PIT No 1349
- (A) M.T.C. GRAVEL PIT No 1649
- (S) M.T.C. GRAVEL PIT No 1385

NOTES

FLOODING RIGHTS TO CONTOUR 1200' RESERVED TO ONT. HYDRO. LOC HY 56, L.O. 7543, FILE 10621

Forestry operations cutting and site preparation 85-86

NEVILLE TP.



YEO TP.

BENNEWIS TP.

INVERGARRY TP.

LEGEND

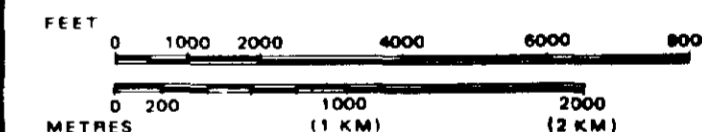
- HIGHWAY AND ROUTE No.
- OTHER ROADS
- TRAILS
- SURVEYED LINES:
 - TOWNSHIPS, BASE LINES, ETC.
 - LOTS, MINING CLAIMS, PARCELS, ETC.
- UNSURVEYED LINES:
 - LOT LINES
 - PARCEL BOUNDARY
 - MINING CLAIMS ETC.
- RAILWAY AND RIGHT OF WAY
- UTILITY LINES
- NON-PERENNIAL STREAM
- FLOODING OR FLOODING RIGHTS
- 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	OC
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 INCH = 40 CHAINS



TOWNSHIP

CHESTER

M.N.R. ADMINISTRATIVE DISTRICT

GOGAMA

MINING DIVISION

PORCUPINE

LAND TITLES / REGISTRY DIVISION

SUDBURY

Ministry of Land
Natural Resources Management
Ontario Branch

Date MARCH, 1985

Number

Rec'd Am. 4/85 checked L.H.

G-3223



41P125W0662 2.8663 CHESTER

