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GEOLOGICAL AND GEOPHYSICAL REPORT EMERALD ISLE RESOURCES INC. CHESTER TOWNSHIP PROPERTY ONTARIO



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August 10, 1985



Emerald Isle Resources Inc. holds a contiguous block of 17 unpatented mining claims in northwestern Chester township, Porcupine Mining Division, Ontario. The area is accessible by fair-weather bush road from highway 144.

The subject property lies in the Swayze Greenstone Belt, a series of east-west trending steeply dipping, Archean metavolcanics and metasediments. These rocks are the host for numberous goldbearing sheared, quartz veins which occur both on the boundary and within Emerald Isle Resources' property.

Recently, line cutting, geological and geophysical surveys were completed over the property. This report summarizes these results. Numerous east-west trending, weak to moderate strength EM-VLF conductors were defined and together with known gold and base metal showings on the subject property require follow-up exploration.

Thus, we have recommended a two-phase exploration program on Emerald Isle Resources Inc.'s Chester township property totalling

\$142,000.



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PAGE

TABLE OF CONTENTS

SUMMARY	i
INTRODUCTION	1
PROPERTY DESCRIPTION, LOCATIONS, ACCESS,	
PHYSIOGRAPHY AND FACILITIES	3
FIGURE 1: CLAIMS LOCATION SKETCH	5
EXPLORATION HISTORY	6
REGIONAL AND ECONOMIC GEOLOGY	13
GEOLOGICAL SURVEY	16
EM-VLF SURVEY	19
CONCLUSIONS, RECOMMENDATIONS AND COST ESTIMATES	22
CERTIFICATION	24
APPENDIX I: BIBLIOGRAPHY	25
APPENDIX II: CLAIMS ABSTRACTS	27

MAPS IN POCKET

GEOLOGICAL MAP (Scale 1 inch = 200 feet) EM-VLF MAP: Cutter Station. (Scale 1 inch = 200 feet) EM-VFL MAP: Annapolis Station. (Scale 1 inch = 200 feet)

INTRODUCTION

This report was prepared at the request of Mr. Ed Blanchard, a director of Emerald Isle Resources Inc., in order to analyse the results of geological and geophysical surveys recently completed on their Chester Township property and, if warranted, to recommend a further phase of gold exploration. The subject property consists of seventeen (17) contiguous unpatented mining claims located in western Chester Township. Access is from highway 144 via a fair-weather bushroad west along the northern side of Three Duck Lake and across the property.

The claim group lies in the Swayze Greenstone Belt, a series intercalated Archean metasediments and metavolcanics which are part of the Superior Province of the Canadian Precambrian Shield. Gold has been sought in the area since the early 1900's. In 1930 a spectacular native gold discovery was made on Three Duck Lake, a mile east of Emerald Isle Resources Inc's property. This was followed by a rapid succession of gold discoveries in the Three Duck Lake and Clam Lakes area. Most of these gold discoveries were in east-west trending shear zones with quartz veins. Possible extensions of known gold shears are the targets sought in this present exploration program.

During June and July, 1985 two geological technicians completed a linecutting grid over the entire group, except for a water-flooded claim in the southeast corner of the group. These

lines were then mapped, sampled and EM-VLF separate readings of Cutter and Annapolis stations were completed. The results of this program are analysed in this report. During the preparaof this report the author has utilized government files, reports and maps; results of the present program and has personally examined Emerald Isle Resources Inc.'s Chester Township property in both 1984 and 1985.

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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. The claims' status is further described in Appendix II of this report. All the claims were recorded on December 21st, 1983 and are presently in good standing. They will each require 20 assessment man-days of work on their first anniversary and 40 additional man-days of work on the second anniversary. The subject claims are held in trust by the stakers pending completion of the terms of an option agreement between Mr. P. Hytti, vendor, and 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°33'30" north and longitude 81°56'45" west, near the Chester-Yeo township 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 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 4 miles to the property. This bushroad meets

3

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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 4 miles from highway 144 where a large hydro line crosses the highway. The nearest town is Gogama, 16 miles away, but Timmins, 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 diorites and granodiorites. In addition to gold, significant quantities of copper (chalcopyrite) are present in the vein systems together with pyrite, pyrrhotite, tourmaline, sphalerite, bornite, covellite, malachite, azurite, molybdenite, molybdite 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. 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 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 on a shear zone striking N63^OW and dipping 45^O 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°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. © CONSTABLE CONSULTING INC.

The Shannon Island prospect is also locased 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 de-watered the shaft and old workings for re-sampling. Best values in the shaft ranged from 0.32 to 1.82 ounces per ton gold and from 1.61 to 6.66 per cent 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 in claim 720645 is described as being "a 56-foot section of massive fine-grained andesite or latite...fairly heavily sulphidized" (Siragusa, 1981). No assay values are given. A second in claim 734210 consists of a trenched vein 4 to 6 feet wide which yielded values in grab samples of 3 to 9 per cent copper and 0.24 ounces per ton gold. (Siragusa, 1981) There is no record of drilling on this prospect. A third showing in claim 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

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acidic rocks, sheared, brecciated and fractures; sulphides, including chalcopyrite mainly in brecciated sections. Minor native copper widespread." (Siragusa, 1981). No assays are given. A fourth in claim 734211 consisted of two auriferous quartz viens 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:

Sample <u>Number</u>	Gold (ppbs)	Gold ounces per ton
9351	1406	0.041
9352	66	
9353	3	
9354	63	
9356	43	
9357	18	
9358	43	
9359	27	
9360	2091	0.061
9361	714	0.021
9362	25	dit int an an
9363	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

11

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 known.

In 1979 Canadian Crest Gold Mines Ltd. held a block of 9 claims which cover the centre of Emerald Ilse'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 per cent 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, granoliorites 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 unresponsivness of the area's mineral deposits to electromagnetic surveys.

REGIONAL 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 insert-FIGURE 1). Intercalated Archean metasediments and metavolcanics comprise the majority of the belt. They strike 110° and dip The metasediments include polymictic conglomerates, steeply. 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' plunge shallowly (15-30°) 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, however regional fault trend northeast, north or 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

13

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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 halos 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.

Gold deposits in the Swayze Greenstone 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 and tellurides. The

14

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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.

GEOLOGICAL SURVEY

The geological survey was completed by two geological technicians, Derek Erickson and Luc Laforest during July, 1985. They cut and chained an east-west base line and turned off picket lines at 200- and 400- foot intervals in a north-south direction. Stations were established at 100- foot intervals. The entire grid was traversed and used for control during the geological survey. All features were tied to the grid and all outcrop located were described and plotted on the map in the back pocket of this report.

Emerald Isle Resources Inc.'s Chester township property is underlain by an intercalated group of Archean metasediments, intermediate metavolcanics, felsic volcanics and granodiorite and monzonite intrusions. A late diabase dyke was located in claim P-734213. The author's experiance in the Swayze Belt suggests that much of the intrusive units are in fact conformable and of volcanic origin.

The northern portion of the claim group is underlain by units c and e which are metasediments and intermediate metavolcanics, respectively. They strike east-west and dip steeply. A welldeveloped S_1 cleavage is also present in most of these units and the S_1 generally parallels the bedding where distinguishable.

South of the contact the rocks are "quartz monzonite" (unit d) "granodiorite" (unit a) intercalated with felsic volcanics (unit b).

The intermixing of units d, a and b strongly suggests a nonintrusive origin for units d and a or very narrow and frequent sills and dykes.

Clearly there are three areas to follow up based on the geological survey. Firstly, in claims P-734210, P-720647, P-734213 and P-734211 are a group of mineralized outcrops. Chalcopyrite, pyrite, malachite and hematitewere observed in an assemblage of units b and d. Also observed are quartz veins in the same areas. An old pit was noted in the northwestern corner of claim P-734211 containing pyrite and chalcopyrite. The possibility of an extension of the Shannon Island gold prospect into claim P-734212 should also be considered.

The second area of potential interest occurs in claims P-720644 and P-720645 where several areas of pyrite and/or chalcopyrite were noted as well as a small pit. These showings are just south of a single drill hole in P-720645 which was described in 1981 by Siragusa as being a 56 - foot section of massive finegrained andesite or latite...heavily mineralized.

The third interesting area occurs in the northern row of claims where several quartz veins or pods are present. As well there is a reported gold showing at the west end of the South Bay of Bagsverd Lake which yielded values of up to 0.28 ounces per ton.

The Emerald Isle property has excellent potential to contain

extensions of the main gold trends in Chester township. In addition, there is good potential to discover new trends and new gold zones.

EM-VLF SURVEYS

A Ronka (Geonics) EM-16 instrument was utilized for the survey. This is a one-man instrument which utilized the signals VLF transmittor stations located around the world to aid in navigation. The instrument measures in degrees or as a percentage of the primary field, the vertical distortion of the primary field caused by a local secondary electrical field. The local secondary field may be graphite, clay topography or sulfides.

In this case only the In Phase readings were recorded (in percentage). All readings were taken facing either Cutler or Annapolis stations. The results were plotted in profile on the maps in the pocket of this report.

The results show a series of weak to moderate, east-west trending conductors which appear to be near vertical. Several conductors which appear to be near vertical. Several conductors can be attributed to superficial features, while others are unexplained.

The conductors and their priority are listed below for Cutler Station:

CONDUCTOR	LINES	STATIONS	STRENGTH AND SOURCE
А	20W to 32W	18N to 20N	Weak, Superficial
В	16W to 24W	15N to 17N	Moderate, Poss. Bedrock
с	8W to 12W	18N	Moderate, Poss, Bedrock (Verticial Dip)
D	2W to 8W	16N to 18N	Weak, Superficial

CONDUCTOR	LINES	STATIONS	STRENGTH AND SOURCE
Е	0 to 8E (open)	14N	Weak, Superficial
F	28W to 32W (open)	4N to 6N	Moderate, Poss. Bedrock
G	4W to 6W	7N	Moderate, Poss. Bedrock
Н	4W to 12W	4N to 6N	Moderate, Poss. Bedrock (Poss. South Dip)
I	32W to 34W (open)	0 to 25	Moderate, Poss. Bedrock
J	24W to 26W	0 to 25	Moderate, Poss. Bedrock (Vertical Dip)
к	26W to 32W (open)	55	Moderate, Poss. Bedrock
L & M	22W to 32W (open)	6+50S	Weak, Superficial
N	14W to 22W (open)	85 to 105	Weak, Superficial
0	28W to 30W (open)	14S and 16S	Moderate, Poss. Bedrock
Р	20W to 26W	195	Weak, Superficial
Q	14W to 20W (open)	225 to 255	Moderate Poss. Bedrock
R	16W to 20W	275 to 295	Weak, Superficial
S	32W to 38W (open)	215 to 235	Moderate, Poss. Bedrock
Т	34W to 38W (open)	265	Moderate, Poss. Bedrock (Poss. North Dip)
There a	are also severa	l single cross	over conductors, the most
interesting	of which coinc:	ides with a min	eralized pit on line

30+00W at 23+75S.

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The Annapolis station was read separately on a different day than the Cutler readings. Basically the major Annapolis conductors coincide with a Cutter conductor:

CUTLER CONDUCTOR	ANNAPOLIS CONDUCTORS	STRENGTH AND SOURCE
В	BB	Weak, Superficial
D	DD	Weak, Superficial
E	EE	Weak, Superficial
F	FF (open)	Moderate Poss. Bedrock
G	GG	Moderate, Poss. Bedrock
I-J	II-JJ (open)	Moderate, Poss. Bedrock
K	KK	Weak, Superficial
L-M	LL-MM	Weak Superficial
N	NN	Weak. Superficial
0	00	Weak, Superficial
T	TT	Moderate, Poss. Bedrock

Only BB,KK and OO conductors vary in strength from the Cutler Conductors.

CONCLUSIONS, RECOMMENDATIONS AND COST ESTIMATES

There are several areas worthy of stripping, trenching and sampling on Emerald Isle's Chester township property: Area 1: Northwest corner of P-734211 and all of P-734212 for

an extension of Shannon Island Showing.

Area 2: Claim P-734210 where a 4- to 6- foot wide vein ran 3 to 9 percent copper and 0.24 o.p.t. gold.

- Area 3: Claim P-734213 where native copper, chalcopyrite and quartz veins over 125 feet wide was reported in old drill holes.
- Area 4: Claims P-720645 and P-720644 where chalcopyrite and pyrite is known as well as a 56- foot wide zone of heavy mineralization.

Based on the presence of gold showings, both on and near the subject property we recommend a two-phase exploration program totalling \$142,000.

PHASE I

STRIPPING, TRENCHING AND SAMPLING

20 days X	\$1000.	per day.	• • • • • • •			\$20,000.00
(included	2 men,	equipment	: and s	ampling	costs)	
Contingend	cies (l	0%)				2,000.00

Total of Phase I.....\$22,000.00

PHASE II

STRIPPING, TRENCHING AND SAMPLING

10 days X \$1000. per day.....\$ 10,000.00 (includes 2 men, equipment and sampling costs)... <u>Diamond Drilling (B.Q. Core)</u> 5000 feet at \$20. per foot..... 100,000.00 (included drilling costs, core boxes, supervision and analysis) Contingencies (10%)..... 10,000.00 Total of Phase II.....\$120,000.00

Total of Phase I and II.....\$142,000.00

Phase I is designed to expose and assess the areas outlined above. Dependent on the results of Phase I, we would proceed to Phase II which is designed to further assess the area from Phase I and some of the other lower priority targets on the property. The best of these area would be diamond drill - tested

Dated August 10th, 1985 At Sudbury, Ontario.

Resp ed. David

CERTIFICATION

I, DAVID W. CONSTABLE, certify that:

- I am a consulting geologist, president of Constable Consulting Inc. with an office at 10 Kingston Court, Sudbury, Ontario.
- 2. I am a 1970 graduate of Mount Allison University, New Brunswick, with an Honours Bachelor of Science - (geology) degree; and in 1970-71 performed a years post graduate work at OXFORD University, ENGLAND.
- 3. I am a Fellow of the Geological Association of CANADA since 1975.
- 4. I have been continuously employed in mineral exploration and development since graduation in all of Canada and parts of the United States.
- 5. This report is based on supervision of the work program and personal experience in the Swazye Belt and the Chester township property in particular.
- 6. I have no interest, direct or indirect, in Emerald Isle Resources Inc.'s Chester township property nor do I expect to receive any interest. I have disclosed all data which I am aware of which may have a bearing on my recommendations relevant to Emerald Isle's Chester township property.

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Dated the 10th of August At Sudbury, Ontario.

APPENDIX I

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Siragusa, G.M. and assistants, 1981, Precambrian Geology of Chester and Yeo Townships Ontario Geological Survey Preliminary Map P 2449, Geological Series, Scale 1:15,840

Young, C.T. 1934, Report on Young-Shannon Gold Mines Limited Properties, Chester Township, Ontario Department of Mines Property Description

ONTARIO GEOLOGICAL SURVEY

ASSESSMENT FILES

File Number	Year	Company
T-2016	1938	Clam Lake Gold Mines Limited
T-2016	1939	Erie Canadian Mines
T-201 6	1939	Sylvanite Gold Mines Ltd.
т-2034	1955	W. S. Savage
т-2034	1965	Shannon Minerals Limited
т-2020	1965	Gogama Gold Mines Limited
т-2023	1965	Chester Minerals Limited
т~2023	1966	Chester Minerals Limited
T-2013	1970	Darwin Mines Limited
T-24 82	1970	Gogama Minerals Limited
т~2021	1970	Gogama Minerals Limited
T-2017	1971	Gogama Minerals Limited
T~2017	197 2	Coniston Explorations Ltd.
T-2030	1973	Park Precious Metals Incorporated
T-1751	1979	Baxter Minerals Ltd.
T-1751	1981	Canadian Crest Mines Ltd.

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APPENDIX II

CLAIM ABSTRACTS

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41	5615			•		Ontario F	lesources	The Mi	ning Act		CLAIM NO	214	
RECORDE	ED IN THE NAME (OF				LICENCE NO	».	RECEIPT NO.	DATE	RECORDED	and the second		
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E a di		Geophysical	Claim	Prefix	Number	Days Cr.	Prefix	Number	Days Cr,
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		Geological			720647			CC,	I
		Geochemical			734210			s les	
Airborne	Credits		Days per Claim		734211	161	128	2 y	Ψ
Note:	Special provisions	Electromagnetic			734212		a di ta	1995	
	credits do not apply to Airborne Surveys	Magnetometer			7341212		120160	CO P	11
		Badiometric			134×13			CTIDA.	
Expendit	tures (excludes pe	THE DIVISION				D. D. H			
Type of V	Vork Performed	E III II. II. II.			RECU	RUE			
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		AU0			AUO	-3-1040	and a later		
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\$	Expenditures) ÷ [15] = [Credits			<u>/</u>	Total nur	nber of mining	
Instructio	ons						report of	work.	10
Total I choice	Days Credits may be . Enter number of di	apportioned at the claim h ays credits per claim selecte	older's ed		For Office Use O	nly		$\gamma_{}$	
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Certifica	tion Verifying Re	port of Work		1					······
1 hereb or with	by certify that I have nessed same during a	a personal and intimate kr nd/or after its completion i	n <mark>owledge o</mark> f and the anr	f the facts set in nexed report is	forth in the Report of true.	of Work annex	ed hereto,	having performed t	he work
Name and	Postal Address of P	erson Certifying	~						
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1362 (81/9	9 j				0				

Ministryof **Report of Work** Instructions: -Please type or print. If number of mining claims traversed Natural (Geophysical, Geological, (Geophysical, Geological, Geochemical and Expenditures) $\pm 263/85$ exceeds space on this form, attach a list. Resources Only days credits calculated in the "Expenditures" section may be entered in the "Expend. Days Cr." columns. Note: -Intario The Mining Act Do not use shaded areas below. i ype of Survey(s) Township or Area ٨ EM-VLF (2) strr OWNSHIP cal 's Licence No. ctor 86 Emerald Keneurces Address 106 om FO OAD Survey Company Date of Survey (from & to) of line Cut **Total Miles** 06 85 Mo. 1 Yr. OR 08 Day 01 Day .03 ONSTABLE ON SULTING Duin ConstAble 10 Kin KINGSTON 169 uoBu 20 Court Credits Requested per Each Claim in Columns at right Mining Claims Traversed (List in numerical sequence) Special Provisions Days per Claim Mining Claim Expend. Days Cr. Mining Claim Expend Geophysical Prefix Number Days Cr Prefix Number For first survey: - Electromagnetic 40 734 497 Enter 40 days. (This hys ic guor includes line cutting) Magnetometer 498 Badiometric For each additional survey: using the same grid: - Other Enter 20 days (for each) Geological 40 54.1 Geochemical Man Days Days per Claim . . Geophysical Complete reverse side - Electromagnetic and enter total(s) here - Magnetometer Sale . - Radiometric 206 - Other Geological Geochemical **Airborne Credits** RI Days per Claim 1 2 ED 4 Č. Note: Special provisions Electromagnetic 734212 credits do not appl 6 2 9 1985 Magnetometer to Airborne Surveys. 7.34 21.3 ЗŶ, MINING Radiometric RONIGER RECORDED Expenditures (excludes persphotripping). Type of Work Performe lh. AUG 1 9 1985 Performed on Claim(s) <u>a 1985</u> AHG Calculation of Expenditure Dave Credits . Caral Total Days Credits Total Expenditures \$ 15 Total number of mining 16 claims covered by this report of wor Instructions Total Days Credits may be apportioned at the claim holder's For Office Use Only choice. Enter number of days credits per claim selected Total Days Cr. Date Recorded in columns at right. 8 Recorded 'S 19 120 na Date Apploved as Recorded Branch Direct h1 (Signature) Date 13185 Certification Verifying Report of Work I hereby cartify 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. Vania and Postel Adurge of Person Certifying CONSTABLE ONSTABLE AVIO 3 <u>11 5</u> LTING Dat by (Svinature Certified IOKING STUN CRT. SUBBURY ONT PBAKA 1362 (81/9)



Technical Assessment

Work Credits

Date			
1085	00	18	

Mining Recorder's Report of Work No. 262

263

Recorded Holder

Emerald Isle Reosurces Inc

Township or Area Chester Township

Type of survey and number of Assessment days credit per claim	Mining Claims Assessed
Geophysical	
Electromegnetic 2 VLF 40 days	P 734497
Electromagnetic days	734500 to 04 incl
Magnetometer days	720644 to 47 incl
	734210 to 13 incl
Radiometric days	
Induced polarization days	
Other days	
Section 77 (19) See "Mining Claims Assessed" column	
Geological days	
Coochemical	
Geochemical oays	
Man days 🔄 🛛 Airborne 🗔	
Special provision Las Ground Las	
Credits have been reduced because of partial	
coverage of claims.	
Credits have been reduced because of corrections	
to work dates and figures of applicant.	
Special credits under section 77 (16) for the following n	nining claims
20 days Electromagnetic &	
20 days Magnetometer.	
P 734498-99	
1 754490-99	
No credits have been allowed for the following mining c	aims
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: 828 (83/6)

Ministry of Natural Resources GEOPHYSICAL – GEOLOGICAL – GEOCH TECHNICAL DATA STATEMENT	File EMICAL T
TO BE ATTACHED AS AN APPENDIX TO TECHNIC. FACTS SHOWN HERE NEED NOT BE REPEATED I TECHNICAL REPORT MUST CONTAIN INTERPRETATION,	AL REPORT N REPORT CONCLUSIONS ETC.
Type of Survey(s) <u>GEOLOGICAL and EM-VLF (2)</u> Township or Area <u>Chester TOWNSHip</u> Claim Holder(s) <u>EMRAALD</u> <u>Isle Resources INC</u> <u>106 Fielding Ad hively ont. POM 2EO</u> Survey Company <u>ONSTABLE CONSULTING INC.</u> Author of Report <u>DAVID</u> <u>CONSULTING INC.</u> Author of Report <u>DAVID</u> <u>CONSTABLE</u> Address of Author <u>10 KiNGSTON</u> <u>COURT</u> <u>SUDBURY</u> Covering Dates of Survey <u>01/06</u> <u>85</u> <u>1008/08</u> <u>85</u>	MINING CLAIMS TRAVERSED List numerically P = 720644 (nyrefix) P = 720645 P = 720646
Total Miles of Line Cut /3.63 SPECIAL PROVISIONS CREDITS REQUESTED DAYS per claim ENTER 40 days (includes line cutting) for first -Electromagnetic Survey. -Radiometric ENTER 20 days for each additional survey using same grid. -Other AIRBORNE CREDITS (Special provision credits do not apply to airborne surveys) Magnetometer Electromagnetic	P - 734210 P - 734211 P - 734212 P - 734213 P - 734497- P - 734498- P - 734498- P - 734500- P - 734501-
DATE: Aug 13/85 SIGNATURE: Author of Report or Agent Res. Geol. Qualifications 2.3493 Previous Surveys File No. Type Date Claim Holder	P - 734502 - P - 734503 - P - 734504 RECEIN
	AUG 22 1985 MHHING LANDS SECTION TOTAL CLAIMS / 6

837 (5/79)

OFFICE USE ONLY

GEOPHYSICAL TECHNICAL DATA

9	<u>GROUND SURVEYS</u> – If more than one survey, specify data for each	type of survey
N S P C	Number of Stations 648 NumberStation interval 100 feef Line spaceProfile scale $1 \text{ ind} = 50^\circ$ Contour interval N/A N/A	r of Readings <u>648</u> acing <u>400 ond 200 feet</u>
MAGNETIC	Instrument Accuracy Scale constant Diurnal correction method Base Station check-in interval (hours) Base Station location and value	~
<u>ELECTROMAGNETIC</u>	Instrument <u>EM - 16</u> Coil configuration <u>HORIZONTAL</u> Coil separation <u>INFINATE</u> Accuracy <u>± 1°</u> Method: <u>DFixed transmitter</u> Shoot back Frequency <u>Cutter Maine and Amonolio</u> (specify V.L.Fl station) Parameters measured <u>IN - Phase</u> in deep r	$\Box \text{ In line} \qquad \Box \text{ Parallel line} \\ M \mathcal{J} \\ \mathcal{L} \\ $
<u>GKAVITY</u>	Instrument Scale constant Corrections made Base station value and location	· · · · · · · · · · · · · · · · · · ·
RESISTIVITY	Elevation accuracy Instrument <u>Method</u>	Frequency Domain Frequency Range
	Electrode array Electrode spacing	

INDUCED POLARIZATION

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Survey Method	
Corrections made	
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Instrument	
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Height of instrument	Background Count
Size of detector	
Overburden(type,	, depth - include outcrop map)
OTHERS (SEISMIC, DRILL WELL LOGGING	ETC.)
Type of survey	
Instrument	
Recuracy	
Parameters measured	
Additional information (for understanding resul	ts)
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AIRBORNE SURVEYS	
Type of survey(s)	
Instrument(s)	
A coursey (speci	iy for each type of survey)
(speci	ify for each type of survey)
Aircraft used	
Sensor altitude	· · · · · · · · · · · · · · · · · · ·

Navigation and flight path recovery method ______

Aircraft altitude______Line Spacing______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	ANALYTICAL METHODS
Type of Sample	Values expressed in: per cent p. p. m. p. p. b.
Method of Collection	Cu, Pb, Zn, Ni, Co, Ag, Mo, As,-(circle)
Soil Horizon Sampled	Others
Horizon Development	Field Analysis (tests)
Sample Depth	Extraction Method
Terrain	Analytical Method
	Reagents Used
Drainage Development	Field Laboratory Analysis
Estimated Range of Overburden Thickness	No. (tests)
	Extraction Method
	Analytical Method
	Reagents Used
SAMPLE PREPARATION (Includes drying, screening, crushing, ashing)	Commercial Laboratory (tests)
Mesh size of fraction used for analysis	Name of Laboratory
·	Extraction Method
	Analytical Method
	Reagents Used
General	General
· · · · · · · · · · · · · · · · · · ·	
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File: 2.8372

August 29, 1985

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

Dear Sir:

RE: Geophysical (Electromagnetic) & Geological Surveys submitted on Mining Claims P 720644, et al, in Chester Township

Enclosed are the plans (in duplicate) for the above-mentioned surveys. In order to complete your submission, please show the actual readings at each station.

When returning this material, please quote file 2.8372.

For further information, please contact Dennis Kinvig at (416)965-4888.

Yours sincerely,

S.E. Yundt Director Land Management Branch

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

D. Kinvig:mc

cc: Mining Recorder Timmins, Ontario File: 263/85 cc: David Constable 10 Kingston Court Sudbury, Ontario P3A 1C9

Encl.

1985 10 08

Your File: 263 Our File: 2.8372

Mining Recorder Ministry of Natural Resources 60 Wilson Avenue Timmins, Ontario P4N 2S7

Dear Sir:

RE: Notice of Intent dated September 18, 1985 Geophysical (Electromagnetic, VLF) and Geological Surveys on Mining Claims P734497 et al, in Chester 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,

S.E. Yundt Director Land Management Branch

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

DK/mc

- cc: Emerald Isle Resources Inc 106 Fielding Road Lively, Ontario POM 2E0
- cc: Resident Geologist Timmins, Ontario

- cc: David Constable Constable Consulting Inc 10 Kingston Court Sudbury, Ontario P3A 1C9
- cc: Mr. G.H. Ferguson Mining & Lands Commissioner Toronto, Ontario

Encl.

Mining Lands Section

File No 28372

Control Sheet



MINING LANDS COMMENTS: U.L.F. Surveys done on separate a days. Chester

: k

Signature of Assessor

6, 9.10/85

Date



Ministry of Natural Resources

Oct. 3/85

1985 09 18

Your File: 263 Our File: 2.8372

Mining Recorder Ministry of Natural Resources 60 Wilson Avenue Timmins, Ontario P4N 2S7 Dear Sirs:

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.

SLE. Yundt Director Land Management Branch

Whitney Block, Room 6643 Queen's Park Toronto, Ontario M7A 1W3

L2. L.D. Kinvig:mc

Encls.

- cc: Emerald Isle Resources Inc 106 Fielding Road Lively, Ontario POM 2E0 cc: David Constable
- Constable Consulting Inc. 10 Kingston Court Sudbury, Ontario P3A 1C9

cc: Nr. G.H. Ferguson Mining & Lands Commissioner Toronto, Ontario



Ministry of Natural Resources Notice of Intent for Technical Reports 1985 09 18

2.8372/263

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 his 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 direct 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. September 4, 1985 File : 2.8372 Whitney Block, Room 6643 Queen's Park Toronto, Ontario M7A IW3

 RECEIVED

 LAND

 MANAGEMENT BRANCH

 SEP - 9 '85

 PREPARE REPLY

 COMMENTS PLEASE

 BY

 S. E. YUNDT

 J. R. MORTON

 J. C. SMITH

 W. P. BROOK

 M. J. HOGAN

 D. W. SCOTT

 S. KEEN

 Return To: R.6643

Emerald Isle Resources Inc. 106 Fielding Road Lively, Ontario Pom 2E0

Dear : Dennis Kinvig

RE: Geophysical (Electromagnetic) & Geological Surveys submitted on Mining Claims P 720644, et, al, in Chester Township.

Enclosed are the plans (in duplicate) for the mentioned survey. These plans now include the survey readings at each station respectively.

Yours Sincerly, Juk Eiks

Derek M. Erickson Field Technician

RECEIVED

SEP 0 9 1985

MINING LANDS SECTION

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