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42C126E0010 42C126E0012 OSKABUKUTA LAKE

010

GEOLOGY REPORT AND EVALUATION OF
THE FEARLESS LAKE, PROPERTY
CLAIMS NO: SSM 710295 TO 710299 AND
NO: SSM 710311 & 710312
NO: SSM 710315 TO 710329
HEMLO AREA
SAULT STE MARIE MINING DISTRICT, ONTARIO

Prepared For:
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October 9, 1984



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SUMMARY

The Fearless Lake property is located about 220 miles east of Thunder Bay in the Hemlo area, Ontario. The property consists of 22 mineral claims, which have been optioned to New Fourty Four Mines Ltd. During July, 1984, the property was geologically mapped and geophysically surveyed.

Geologically, the Hemlo area is a typical Archean greenstone belt. The gold mineralization is however quite different from the usual gold deposits of greenstone belts. The Hemlo gold deposit is a very wide, deep and elongate "stratabound-strataform deposit" and consists of fine grained, auriferous pyrite disseminated in meta-sedimentary tuffs and greywackes.

The Fearless Lake property is underlain almost exclusively by granite gneiss. A small horst of metavolcanics occurs to the north of the property while the granite-metavolcanic contact occurs about 800 feet north of the property. A northwesterly trending, wide diabase dike cuts through the west part of the claims. Several northwesterly trending fault-shear zones occur on the claims and can be traced for over several miles.

Two areas of mineralization occur on the property. A pyritic amphibolite bed was located at the north boundary of the property. A fairly well mineralized mylonite zone was discovered in a small beaver pond. Mineralization consists of 2% to 5% pyrite and chalcopyrite over 1 to 2 feet of carbonatized, silicified and mylonitic diabase in a strong shear zone. All assays for Cu, Au and Ag were at background to very low levels. The assays in fact indicate a depletion of gold in the zone and only background levels in the surrounding carbonatized zone.

VLF EM-16 surveying did not reveal any significant anomalies, however the granite-metavolcanic contact and mineralized shear were identified with the survey. A magnetometer survey was attempted but could not be carried out due to severe atmospheric noise from thunder storms.

Because of the geology underlying the claims and the poor assay results from fairly well mineralized samples, no further work is recommended on the Fearless Lake property.

I. INTRODUCTION

Scope

The writer was engaged by New Fourty-Four Mines Ltd. to carry out brief geological-geophysical surveys on the Fearless Lake property in order to evaluate its gold potential. This report summarizes the results of this program carried out during July, 1984.

Location

The property is located about 220 road miles east of Thunder Bay and about six miles south of the Trans Canada Highway (route 17) at the White Lake Provincial Park. The town of Marathon occurs about 35 miles to the west on route 17 (Fig. 1).

Geographically, the property is located at longitude $48^{\circ}37'N$ and latitude $95^{\circ}42'E$ (center of property) at an elevation of about 1200 feet above sea level. The magnetic declination for the area is about $4^{\circ}30'W$ (Fig. 2).

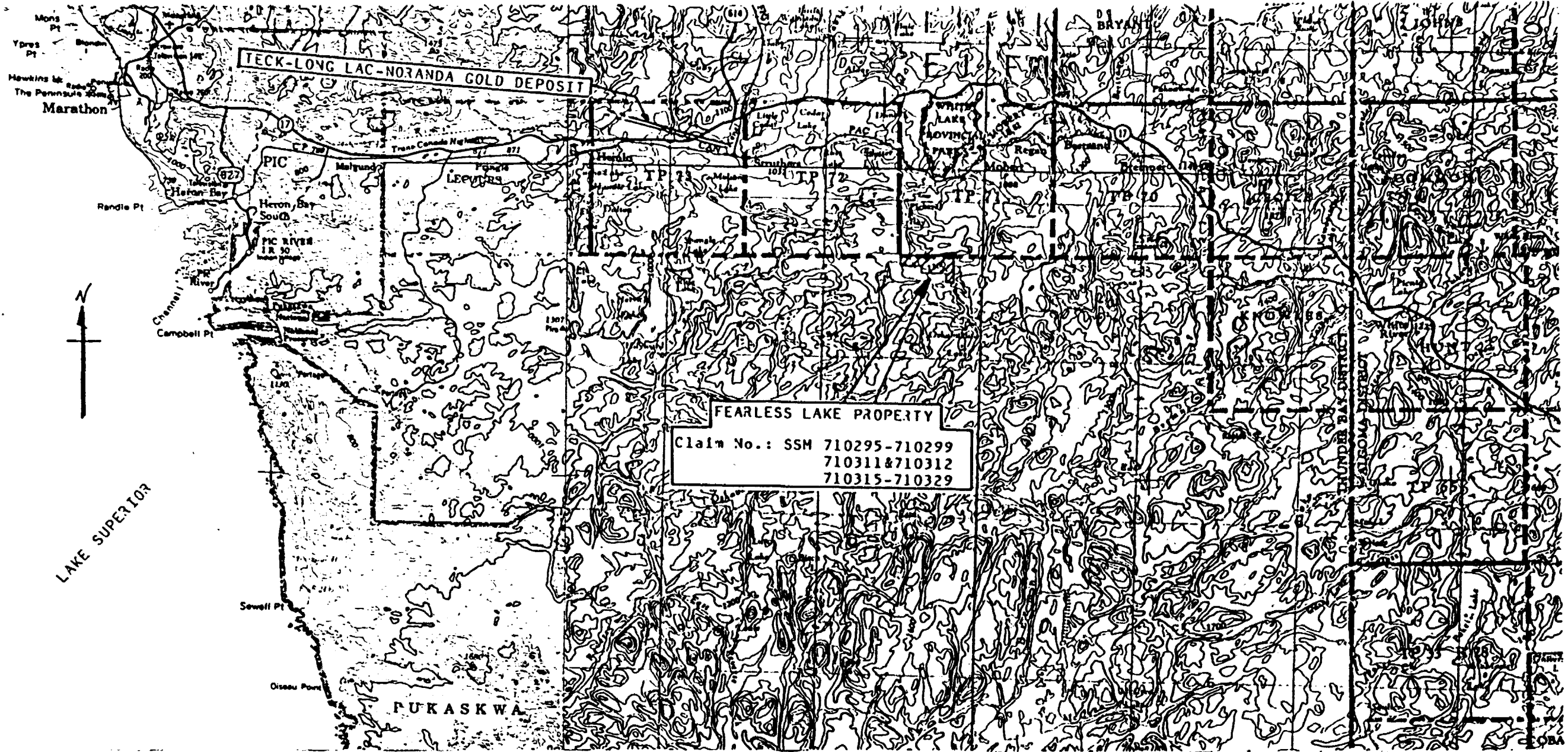
Access

A logging road from the village of Moberg passes near the southeastern side of the property. Access to carry out work on the property is best gained by float plane into Fearless Lake (Fig. 2). Aircraft charter in the area can be obtained from White River Air in White River, Ontario about 22 miles east of Fearless Lake.

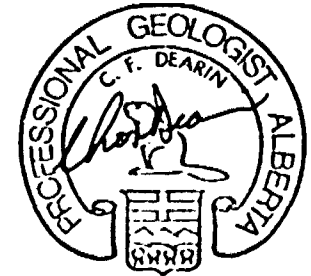
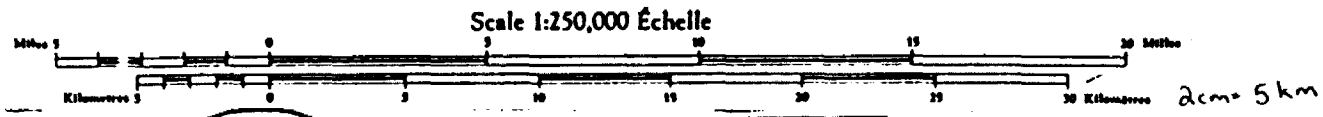
Physiography

The western side of the property is at an elevation of about 1100 feet above sea level and rises to about 1350 feet along the north side. The slopes are gradual but in several areas abrupt drops of up to 60 feet occur. In general, narrow easterly trending rock ridges are common in the central and southern part of the property and steep, wide ridges occur along the north part of the property.

The property is covered with dense to generally open bush consisting of mature stands of fir, spruce, balsam and birch trees. Muskeg and swamp is restricted to low areas that have been inhabited by beavers. Several large lakes,

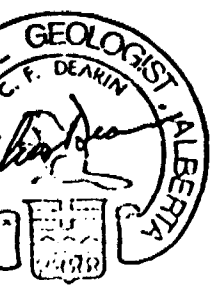
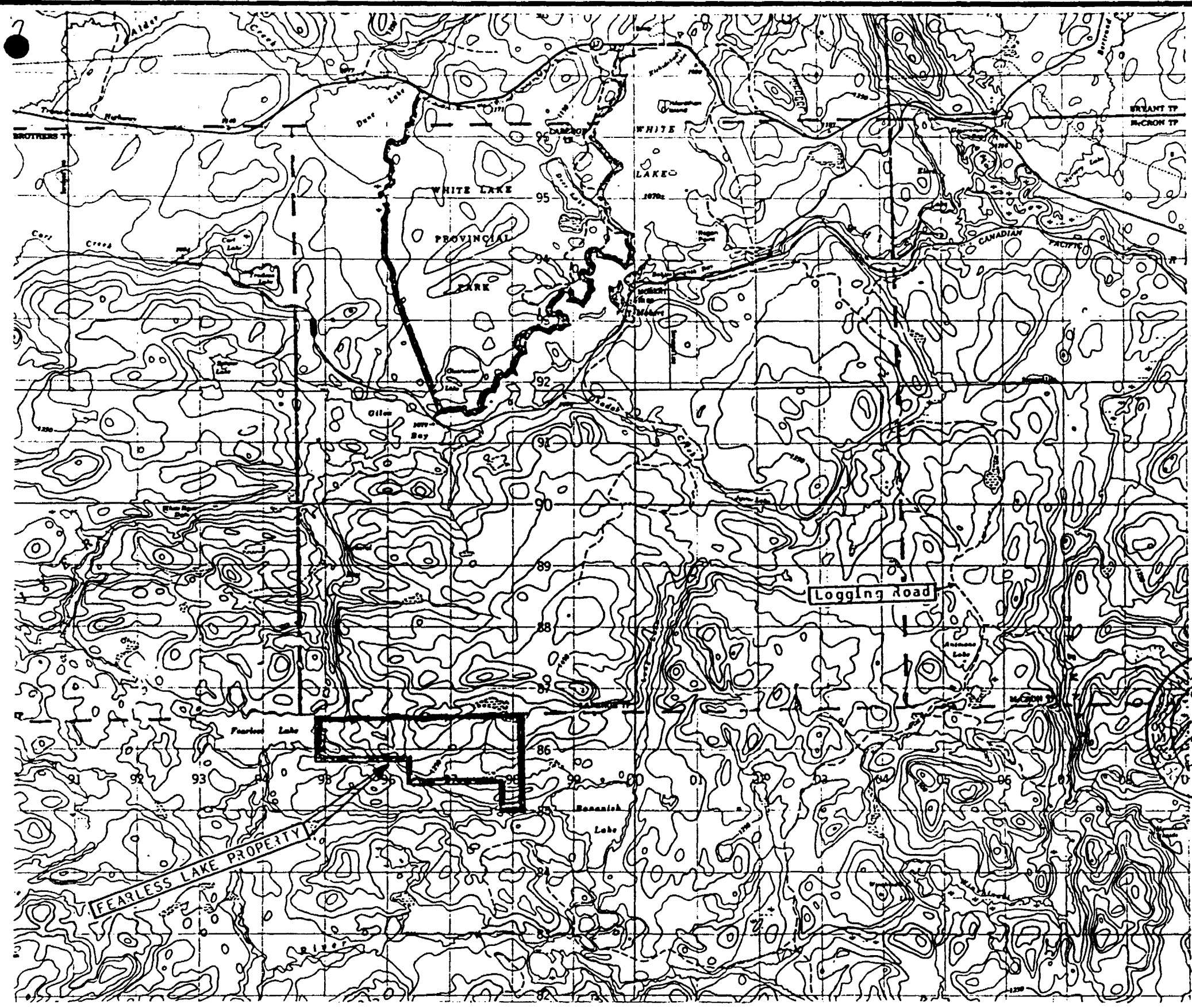


LAKE SUPERIOR



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NEW FORTY FOUR MINES LTD.		
Hemlo Property Fearless Lake, Ontario Location Map of Property		
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Checked by:	File No.:	NTS No. <u>42C/12</u>
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NEW FORTY FOUR MINES LTD. Hemlo Property Fearless Lake, Ontario Detailed Location Map of Property		
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a few small beaver ponds and streams occur around and within the property. Overburden appears to be less than five to ten feet near the west but may range up to and over thirty feet to the east.

Climatically, the area is warm to hot and humid in summer with a fair amount of rainfall. Winters can be cold and extends from November to April.

Glaciation is evident in the area in the form of glacial striae on rounded, polished rock ridges and roche moutonnees. Where observed, these features indicate a westerly (240° to 280°) ice movement.

Land Use

Extensive logging and pulp milling as well as seasonal tourism, fishing and hunting forms the economic base of the area. With the recent discovery and present development of huge gold reserves at Hemlo, mining will make a significant economic impact on the region.

Previous Geological Work

The area was first geologically mapped in 1930 with more detailed compilations in 1968 (Milne) and 1972 (ODM Map 2220). The area to the west of the property was mapped in detail (1:31,680) during 1978 (Muir). There has been no recorded exploration work carried out on the property in the past.

Present Evaluation Work

During the period July 10 to July 21, 1984, a program consisting of detailed mapping (1"=1000"), prospecting, line cutting and gridding and geophysical surveys were carried out and supervised by the writer. Two assistants and one prospector were employed during this period.

Table I summarizes personal, hours worked and work performed on the claims.

TABLE I
SUMMARY OF FIELD PERSONNEL, HOURS WORKED, and
WORK PERFORMED ON FEARLESS LAKE PROPERTY,
HEMLO AREA, ONTARIO

Date	Person	Work		Work Credits	
		Hrs.	Type	Factor	Days
July 10	CD	12	Geology	1.5X7	10.5
	BM, RM, JM	12 ea.	Line Cutting	3X1.5	4.5
July 11	CD	12	Geology	1.5X7	10.5
	BM, RM, JM	12 ea.	Line Cutting	3X1.5	4.5
July 12	CD	12	Geology	1.5X7	10.5
	BM	12	Geology	1.5X7	10.5
	RM, JM	12 ea.	Line Cutting	2X1.5	3.0
July 13	CD	12	Geology	1.5X7	10.5
	BM	12	Geology	1.5X7	10.5
	RM, JM	12 ea.	Line Cutting	2X1.5	3.0
July 14	CD	12	Geology	1.5X7	10.5
	BM	12	Geology	1.5X7	10.5
	RM, JM	12 ea.	Line Cutting	2X1.5	3.0
July 15	CD	12	Geol/Geoph.	1.5X7	10.5
	BM	12	Geology	1.5X7	10.5
	RM, JM	12 ea.	Geophysics	2X1.5X7	21.0
July 16	CD	12	Geol/Geoph.	1.5X7	10.5
	BM	12	Geology	1.5X7	10.5
	RM, JM	12 ea.	Geophysics	2X1.5X7	21.0
July 17	CD	12	Geol/Geoph.	1.5X7	10.5
	BM, RM, JM	12 ea.	Geophysics	3X1.5X7	31.5
July 18	CD	12	Geology	1.5X7	10.5
	BM, RM, JM	12 ea.	Geophysics	3X1.5X7	31.5
July 19	CD	12	Geology	1.5X7	10.5
	BM, RM, JM	12 ea.	Geophysics	3X1.5X7	31.5
July 20	CD	12	Geology	1.5X7	10.5
	BM, RM, JM	12 ea.	Geophysics	3X1.5X7	31.5
July 21	CD	12	Geol/Geoph.	1.5X7	10.5
	BM	12	Geology	1.5X7	10.5
	RM, JM	12 ea.	Geophysics	2X1.5X7	21.0
		\$173.55	Assays	173.55/15	11.5
					407.5

PERSONNEL

Name	Address	Occupation
Charlie Dearin (CD)	320 Whiteland Dr. N.E. Calgary, Alberta	Geologist
Brian Murray (BM)	P.O. Box 98 Flin Flon, Manitoba	Geol/Geoph. Tech. Prospector/Line Cutter
Ranold Murphy (RM)	421 N Cumberland St.	Line Cutters;
Jim MacKinnon (JM)	Thunder Bay, Ontario	Geoph. operators

Claims and Ownership

The property consists of 22 contiguous mineral claims totalling about 810 acres, located in the Sault Ste. Marie Mining Division in the District of Thunder Bay, Ontario.

The claims are plotted and shown on the White Lake Claim Map (G 623) and the Oskabukum Lake Claim Map (M-16)(Fig. 3) and have been registered with the Mining Recorder, Ministry of Natural Resources, 875 Queen Street East, Box 669, Sault Ste Marie, Ontario, P6A 5N2, (705) 949-1231, Ext. 267.

The claims were staked by David Van Der Meer (Licence E 29258) during March 23 to March 30, 1983 and were recorded on April 18, 1983. On April 18, 1983, the 22 claims were transferred to Jens E. Hansen (Licence A 45202). On June 1, 1983 Ron Shepherd and Associates acquired the claims from Geotest Corp. (Hansen's company) and subsequently were obtained by Apsheron Minerals Ltd. of Calgary.

On February 15, 1984, Apsheron applied for and received on March 21 and April 5, 1984, an Extension of Time Order for assessment work performance on the claims from the Ontario Mining and Lands Commissioner. This Extension of Time Order is valid until November 30, 1984 at which time all assessment work on the claims must be recorded with the Mining Recorder at the above address.

New Forty-Four Mines Ltd. has an option agreement with Apsheron on the 22 claims.

Table II summarizes the claims with applicable dates.

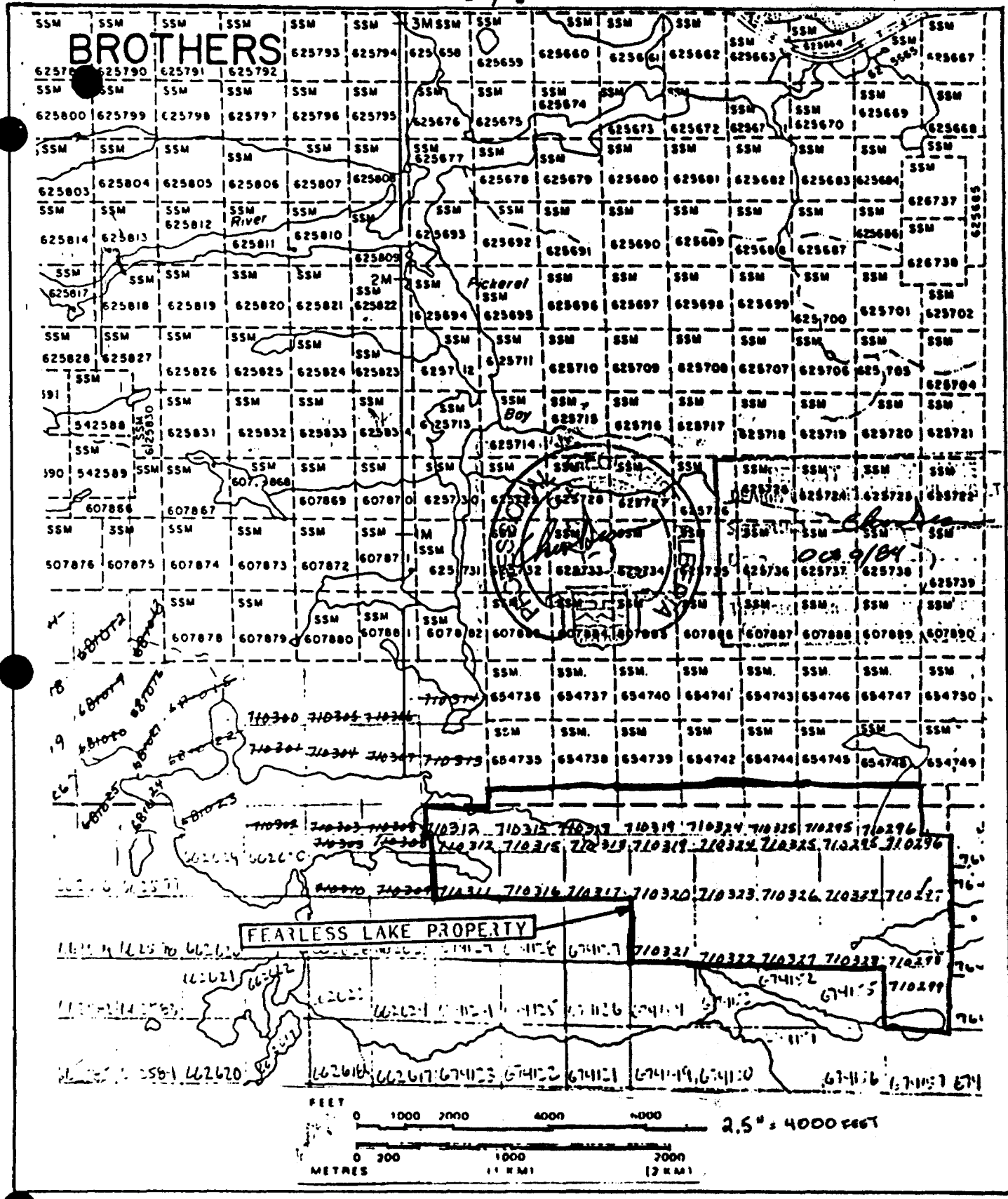


Figure 3: Detailed Claim Map of Property and Area.

TABLE II

Summary of Mineral Claims Optioned by
New Fourty Four Mines Ltd. on the Fearless Lake
Property, Hemlo area, Sault Ste Marie Mining Division,
Ontario

Claims No.	Date Staked	Date Recorded	Map No.	Assessment Filing Date
SSM 710311	March 25, 1983	April 18, 1983	G623	November 30, 1984
710312	March 23, 1983	"	G623	"
710315	March 26, 1983	"	G623	"
710316	March 23, 1983	"	M16	"
710317	March 23, 1983	"	M16	"
710318	March 26, 1983	"	G623	"
710319	March 26, 1983	"	G623	"
710320	March 27, 1983	"	M16	"
710321	March 30, 1983	"	M16	"
710322	March 30, 1983	"	M16	"
710323	March 27, 1983	"	M16	"
710324	March 27, 1983	"	G623	"
710325	March 27, 1983	"	G623	"
710326	March 28, 1983	"	M16	"
710327	March 30, 1983	"	M16	"
710328	March 30, 1983	"	M16	"
710329	March 28, 1983	"	M16	"
SSM 710295	March 28, 1983	"	G623	"
710296	March 29, 1983	"	G623	"
710297	March 29, 1983	"	M16	"
710298	March 30, 1983	"	M16	"
710299	March 29, 1983	"	M16	"

II. GEOLOGY

Regional Geology

Regionally, the area lies in the Superior Province of the Canadian Shield and is part of the Schreiber-Marathon Greenstone Belt. This Archean age greenstone belt, about 40 miles long, forms an easterly trending arcuate sequence of metavolcanics and metasediments (Fig. 4). The belt is terminated in the west by Lake Superior and in the east, south and north by granitic terrain.

The Schreiber-Marathon Belt consists of two easterly trending supracrustal volcanic sequences, the Heron Bay Sequence and the Playter Harbour Sequence, both of which are probably related to one another (Muir, 1978).

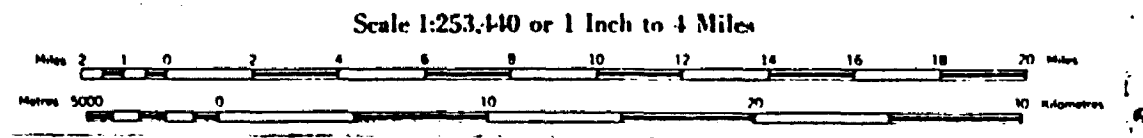
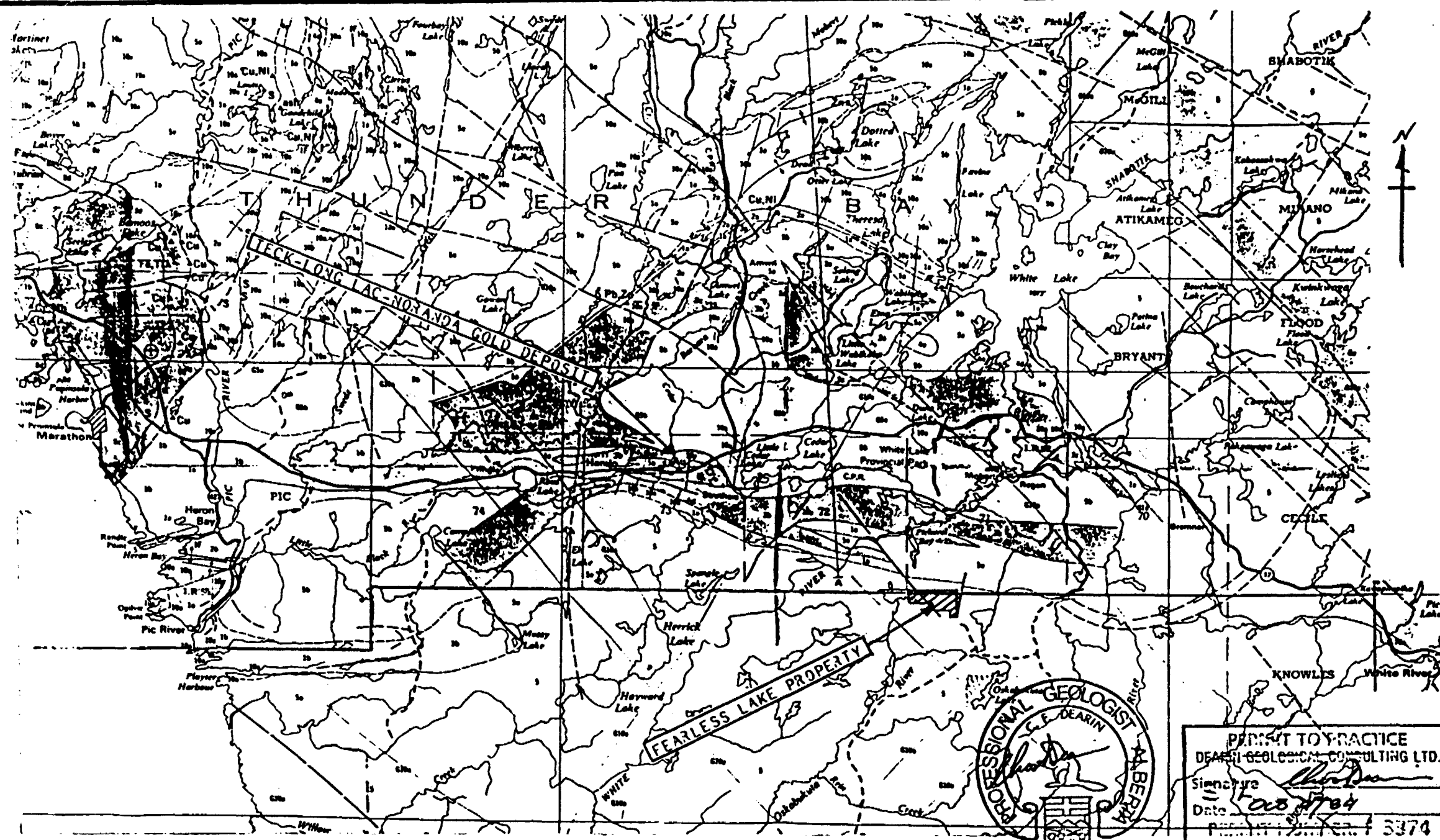
The Heron Bay Sequence consists of mafic tholeiitic basalt flows, calc-alkaline felsic volcanics and related sediments. This sequence shows a west to east facies change from intermediate to felsic pyroclastics to metasediments derived from unlithified volcanics and to mudstones and greywackes derived from epiclastic volcanic detritus.

The Playter Harbour Sequence consists entirely of mafic tholeiitic basalt flows. Both volcanic sequences have been intruded by four distinct Archean age granitic bodies. The Pukaskwa Gneiss Complex consists of foliated gneissic trondjemite and granodiorite and is protomylonitic along its margins. This complex is present along the south boundary of the volcanic belt. Both the Heron Bay and Cedar Bay Plutons are massive granodiorite batholiths and occur within the central part of the volcanics and to the northeast of it. The Gowan Lake Pluton consists of massive to lineated quartz monzonite (Muir, 1978).

All of these Archean age rocks have been intruded by late Archean to Proterozoic age felsic to mafic dikes and sills.

Low grade, low temperature regional metamorphism to greenschist, and locally amphibolite facies, has effected all Archean age rocks. The metamorphism is possibly due to the Kenoran Orogeny.

- PRECAMBRIAN**
- MIDDLE TO LATE PRECAMBRIAN (PROTEROZOIC)**
- MAFIC IGNEOUS ROCKS**
- 10a Diabase (dikes).^a
- INTRUSIVE CONTACT**
- GAMTAGAMA LAKE COMPLEX^a**
- 9a Granite, quartz monzonite, granodiorite, monzonite, syenite.
9b Gabbro, olivine gabbro, anorthosite, norite, diorite.
- CONTACT INDETERMINATE**
- LATE PRECAMBRIAN CARBONATITE-ALKALIC COMPLEXES**
- 8a Nepheline syenite.
8b Hornblende syenite, syenite pegmatite.
8c Augite syenite.
8d Gabbro, olivine gabbro, anorthositic gabbro.
8e Intrusive calcite, dolomite, fenitized rock and lamprophyre.
- CONTACT INDETERMINATE**
- KEWEENAWAN FELSIC IGNEOUS ROCKS^a**
- 7a Quartz porphyry.
7b Microdiorite.
- INTRUSIVE CONTACT**
- SEDIMENTARY AND VOLCANIC ROCKS**
- 6a Mafic volcanic rocks.
6b Felsic volcanic rocks.
6c Conglomerate, sandstone, shale.
- UNCONFORMITY**
- EARLY PRECAMBRIAN (ARCHEAN) FELSIC IGNEOUS AND METAMORPHIC ROCKS^a**
- 5 Unsubdivided metamorphic and felsic intrusive rocks.
5a Massive granitic rocks.
5b Massive granodiorite and quartz monzonite.
5c Massive syenite.
5d Quartz porphyry, felsic porphyry, granitic, granodioritic, dioritic and ironthemic gneisses.
5f Mafic amphibolitic gneisses.
5g Migmatite.
- INTRUSIVE CONTACT**
- MAFIC AND ULTRAMAFIC IGNEOUS ROCKS^a**
- 4 Mafic intrusive rocks, unsubdivided.
4a Serpentine.
4b Peridotite, pyroxenite, metapyroxenite.
4c Gabbro, melagabbro.
4d Diorite.
4e Massive amphibolite.
- INTRUSIVE CONTACT**
- METASEDIMENTS^a**
- 3 Unsubdivided metasediments.
3a Conglomerate.
3b Greywacke, shale, arkose, quartzite.
3c Quartz-feldspathic schists and gneisses.
3d Garnet quartz-feldspathic schists and gneisses.
3e Cordierite quartz-feldspathic schists and gneisses.
3f Sillimanite quartz-feldspathic schists and gneisses.
- METAVOLCANICS/ FELSIC METAVOLCANICS**
- 2a Felsic volcanic rocks.
2b Felsic volcanic rocks with interbedded sedimentary and (or) mafic volcanic rocks.
- MAFIC METAVOLCANICS**
- 1a Mafic volcanic rocks.
1b Mafic volcanic rocks with interbedded sedimentary and (or) felsic volcanic rocks.



Map 2220
MANITOUWADGE-WAWA SHEET



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NEW FORTY FOUR MINES LTD.		
Hemlo Property Fearless Lake, Ontario Regional Geological Map of Area		
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Large scale folding and faulting in the area appears to be rare, although both structural features do occur. Numerous lineaments occur in the volcanic sequences and the Pukaskwa Gneissic Complex, many of which may be faults (Muir, 1978).

Regional Mineralization

The first known gold showing in the area was found in 1872 near Heron Bay Station in sheared felsic pyroclastics. Several other minor gold discoveries were made from the 1920's to 1940's. The most notable of these was a small gold showing, known as the "Ollmann-Williams Prospect", staked in 1945. Subsequent stripping, trenching and diamond drilling revealed a series of sheared feldspar porphyry dikes cutting strongly silicified sediments which contained pyritic mineralization over widths of 40 to 200 feet. Sporadic diamond drilling during the 1950's and 1970's indicated a zone with potential of about 150,000 tons grading 0.21 oz. Au/ton across a width of about 6.0 feet (Northern Miner).

In 1981, ground adjacent to this deposit was staked and diamond drilled by Corona Resources Ltd. Additional ground was acquired in the area by Goliath Gold Mines Ltd. and Lac Minerals Ltd. Drilling by these companies and their optionees during 1981 to 1984, led to the discovery of the huge Hemlo gold deposit. This deposit which has a combined ore reserve of over 75 million tons grading about 0.244oz. Au/ton occurs in strongly pyritized and silicified greywackes. It is a classic strataform, stratabound deposit which extends to a depth of over 4000 feet below surface and probably averages about 70 to 80 feet in width.

During 1983 to 1984, a large amount of exploration work has been carried out in the Hemlo area by numerous exploration companies. To date, no additional gold deposits have been found although there have been some significant mineralized and/or altered zones located.

Property Geology

The property is underlain almost exclusively by the Pukaskwa Gneissic Complex. The contact between metavolcanics and this gneissic granite lies about 1000 feet north of the northern side of the property. There is however, a circular horst of metavolcanics (amphibolites) and a hybrid zone of granite, volcanics and aplite dikes along the north edge of the claims from line 52E to about 68E (Fig. 6).

The granitic terrain on the claims is well exposed in most areas and occurs as featureless, massive, white to pink porphyritic granodiorite to well foliated-gneissic granite. Irregular knots and bands of quartz veins were observed in several places.

The horst of amphibolites consist of dark green to black, fine grained and well banded volcanics. A well developed foliation trending about 280° and dipping 75° north is prominent. The sequence was traced about 200 feet in a north-south direction along a small creek. Several bands rich in a yellow mica mineral were observed and at first was misleading for pyrite mineralization. One band of silicified volcanics with minor quartz veining does contain a fair amount (2-5%) of brassy yellow pyrite. One assay of this mineralization only yielded trace amounts of Au and Ag.

A massive monfoliated, dark green, medium grained diabase dike occurs near the west center of the property. The dike is well exposed on the northern shore of a small beaver pond (Fig. 5 and 6). Here the dike is over 100 feet wide and was traced for about 1300 feet to the southeast. Contact relations are obscured by overburden. In several localities, significant (about 2-5%) pyrite was noted in the dike. Several grab samples of pyritic diabase returned only background levels of gold and silver (Table III).

Only one fault-shear zone was observed on the property. This coincides with the above mentioned diabase dike. The shear trends about 320° and dips vertical to 80° S and can be traced to the north into Pickeral Bay and to the south near a logging road for a strike length of over 10,000 feet

(Fig. 6). A number of strong lineaments as observed on air photos for the area may be expressions of additional shear zones (Fig. 6).

At the beaver pond, the shear occurs entirely within the diabase dike which in the immediate vicinity of the shear has been strongly carbonatized and silicified and in places is mylonitic.

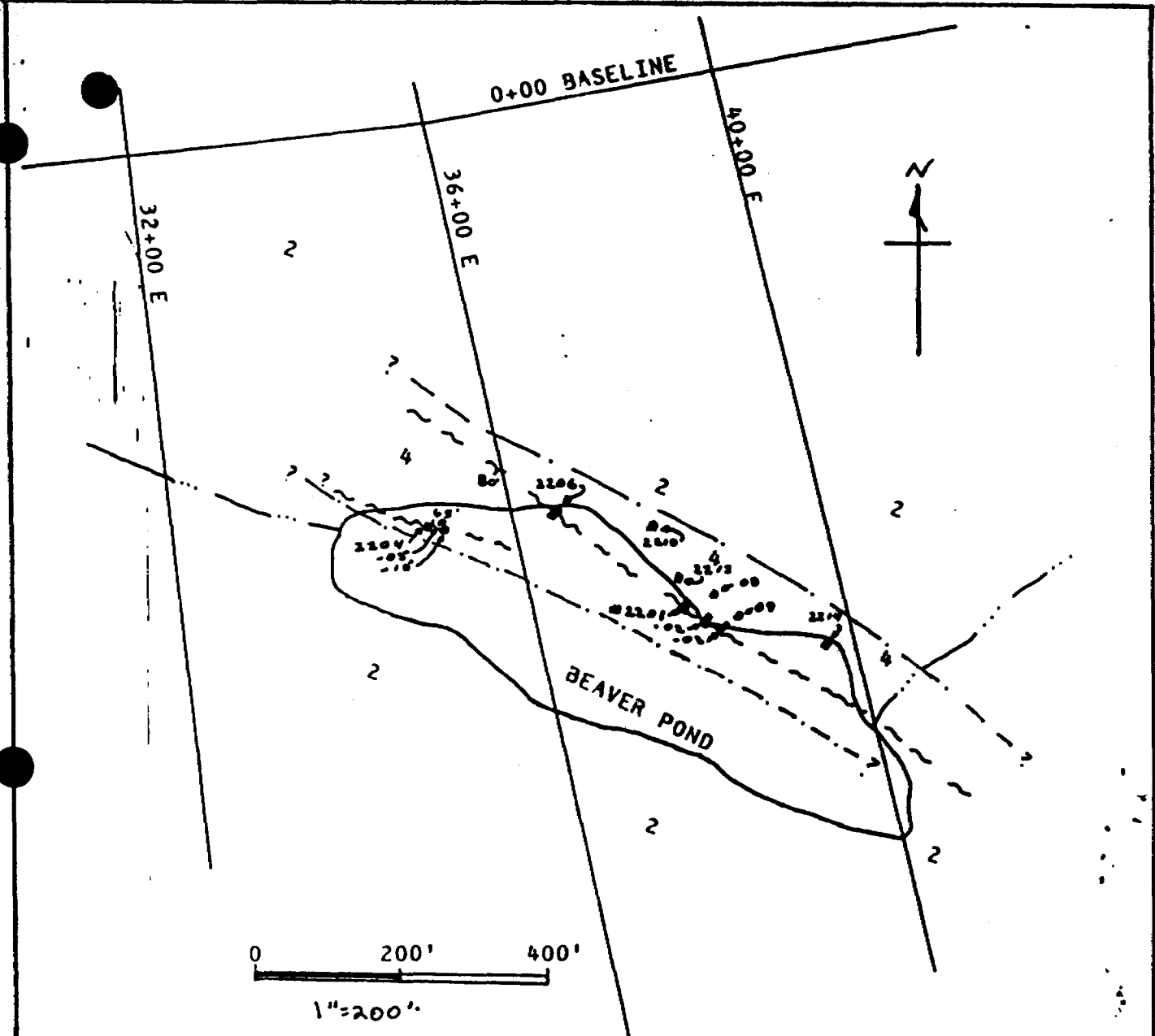
Property Mineralization

Two areas containing mineralization were discovered on the claims during the property evaluation. The most significant of these lies under about three to five feet of water in a beaver pond (Fig. 5 and 6). Detailed mapping and prospecting along the shear zone mentioned above located minor carbonate alteration in the diabase dike on the north shore of the beaver pond. As the shear zone appeared to lie in the pond, the beaver dam was broken and the water level dropped about six feet. The shear, containing significant pyrite and chalcopyrite mineralization, was then observed about 10 to 80 feet south of the shore line.

Mineralization is found in two shears along a length of about 450 feet (Fig. 5). The main shear occurs along the north shore of the pond and ranges from two to over ten feet wide. It occurs as a reddish-brown carbonatized altered and mylonitic crushed zone with numerous veinlets and crystals of tourmaline and epidote. Joints and tension gashes are filled with calcite (70%) and quartz (30%). The diabase is nonmagnetic where strongly altered (hematitized) but is weakly magnetic in fresh unaltered outcrop.

Mineralization consists of both smeared and well developed cubic and tetrahedron crystals of pyrite and chalcopyrite (up to 10mm) in calcite veinlets and minor specks of cubic galena.

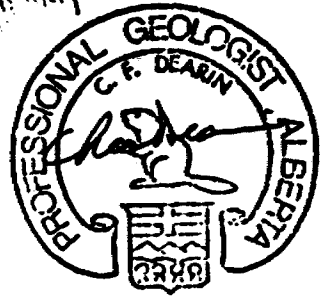
Six samples, both chip-channels and selected grabs, were taken from this zone (Fig. 5). Sample 2202, consisting of selected pieces of carbonatized, silicified sheared diabase with abundant calcite veinlets containing about 5% pyrite and 1% chalcopyrite gave the best assay obtained; 0.40% Cu,



LEGEND

- 4 Diabase dike
- 2 Granite gneiss

- Fault - shear
- Geological contact
- Sample location



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Figure 5: Detailed Geological Map of Beaver Pond Showing.

0.027 oz. Ag/ton and 10 ppb Au. The other samples were similarly very low in assay values (Table III). In fact all samples of selected "high grade" from the shear indicate that if anything the gold has been depleted or "leached out" of the rock. Other assays in both altered and fresh, non-sheared diabase did not show any enrichment of gold.

This shear was traced 230 feet to the northwest where a similar style alteration and mineralization was noted. Sample 2206 is a grab sample of silicified sheared diabase and assayed only 0.04% Cu, Tr Ag and 10 ppb Au.

Sample 2214, taken at the eastern end of the shear assayed 0.193% Cu, 0.015 oz. Ag/ton and 2 ppb Au.

A subsidiary shear trending about 290° and dipping about 65° N occurs near the west end of the beaver pond (Fig. 5). The shear is about one to three feet wide in diabase which is strongly carbonatized, silicified and mylonitized over about four feet. Mineralization consists of smeared pyrite and chalcopyrite in altered diabase and calcite filled tension gashes. Minor malachite and azurite and a few crystals of bornite were noted.

Sample 2204 is a chip sample across one foot of mylonite containing 3% to 5% pyrite/chalcopyrite. It assayed 0.055% Cu, Tr Ag and 8 ppb Au. Sample 2215 consists of selected pieces of altered diabase containing about 3% to 5% pyrite/chalcopyrite in calcite filled gashes. Assays yielded 0.32% Cu, 0.017 oz. Ag/ton and 2 ppb Au.

Although these strongly altered, sheared zones contained significant mineralization, all assays showed low values and in fact a depletion in gold was obvious.

Two grab samples were taken from slightly altered, pyritic diabase, at the beaver pond and about 1300 feet southeast of the pond (Fig. 6). Both samples, 2210 and 2213, yielded only traces of gold and silver.

At line 52E on the baseline (Fig. 6), a banded amphibolite was located. In places the amphibolite is strongly silicified and contains narrow (1 to 3 cm) elongate quartz

TABLE III
ROCK SAMPLE ASSAY SUMMARY
FEARLESS LAKE PROPERTY, HEMLO AREA, ONTARIO

Sample No.	Location	Assays			Sample Type	Width	Reference
		Au oz/ton	Ag oz/ton	% Cu			
2201	Beaver Pond	Tr	Tr	0.034	Chan.	2.0	Figure 5
2202	"	Tr	0.027	0.40	Grab	-	"
2203	"	Tr	0.020	0.31	Chan.	2.0	"
2204	"	Tr	Tr	0.055	Chan.	1.0	"
2205	"	Tr	Tr	0.041	Grab	-	"
2206	"	Tr	Tr	0.040	Grab	-	"
2207	1N&52E	Tr	Tr	Tr	Grab	-	Figure 6
2208	Beaver Pond	Tr	Tr	0.019	Grab	-	Figure 5
2209	"	Tr	Tr	Tr	Grab	-	"
2210	"	Tr	Tr	-	Grab	-	"
2211	4S&68E	Tr	Tr	-	Grab	-	Figure 6
2212	Beaver Pond	Tr	Tr	-	Grab	-	Figure 5
2213	20S&48E	Tr	Tr	-	Grab	-	Figure 6
2214	Beaver Pond	Tr	0.015	0.193	Grab	-	Figure 5
2215	"	Tr	0.017	0.320	Grab	-	"

veinlets. Both minor pyrite and chalcopyrite was noted in these veinlets and the amphibolite. Sample 2207 containing selected pieces of pyritic quartz and amphibolite assayed only 0.008% Cu, 0.003 oz. Ag/ton and 4 ppb Au.

At line 68E 4+00S (Fig. 6), a hybrid zone containing blocks of massive amphibolite in granite was observed. Numerous irregular white sugary aplite dikes containing minor specks of pyrite occur here as well. Sample 2211 containing pyritic aplite yielded only background Ag and Au.

III. GEOPHYSICS

Grid

In order to accurately carry out the geophysical surveys, as well as mapping and prospecting, a control grid was laid out. A baseline was started on the east shore of Fearless Lake and extended 10,400 to the east (Fig. 6). This baseline was established partially along one of the claim lines that was already blazed on the property. Crosslines were laid out at 400 foot intervals and extended 1600 feet to the north and from 2200 feet to 4400 feet to the south in order to cover the granite-volcanic contact to the north and the southern claim boundary. The north lines were run as far as line 80+00E and the south lines as far as line 68+00E as the poor geophysical results did not appear to warrant the additional lines. All lines were blazed, slashed and flagged and stations marked at 200 foot intervals. Two tie lines, one at the north end and one across the south end were run for control of the lines. No serious discrepancies were noted.

A total of 18.8 line miles were blazed and marked.

VLF EM-16

Two VLF EM-16 (Geonics instrument) surveys were attempted over the grid. The first using the Annapolis, Maryland transmitter station was aborted after lines 4+00E to 28+00E were complete as the station stopped transmitting. The Cutler, Maine transmitter was off for servicing during the month of July.

As the only other suitable station was Seattle, Washington, this station was used from lines 4+00E to 68+00E. The results of the survey did not reveal any major anomalies although a small anomaly with a low conductivity coincides with the mineralized shear near the beaver pond mentioned above (Fig. 6 and Appendix II).

Several other minor anomalies can be correlated to the granite-volcanic contact but mostly these are due to overburden effects. One large anomaly with a low conductivity near the south end of lines 8+00E and 48+00E appears to be the result of a major shear in a clay filled valley (Fig. 6 and Appendix II).

Magnetometer.

A magnetometer survey was attempted for five consecutive days, however severe thunder storms in the area caused extreme fluctuations in readings. At times over 1000 gammas difference in five minutes were recorded. Six lines were surveyed on one apparently clear day, however, the results were totally useless. These magnetic storms were prevalent over the length of the property evaluation.

A regional magnetic map of the area (GSC Map 2167G) shows a westerly trending magnetic high (60 gammas over background) which coincides with the granite-volcanic contact. The gneissic terrain shows up as a series of weak lows. Several major faults in and around the property show up as minor embayments and curves in the magnetic contours (Fig. 7).

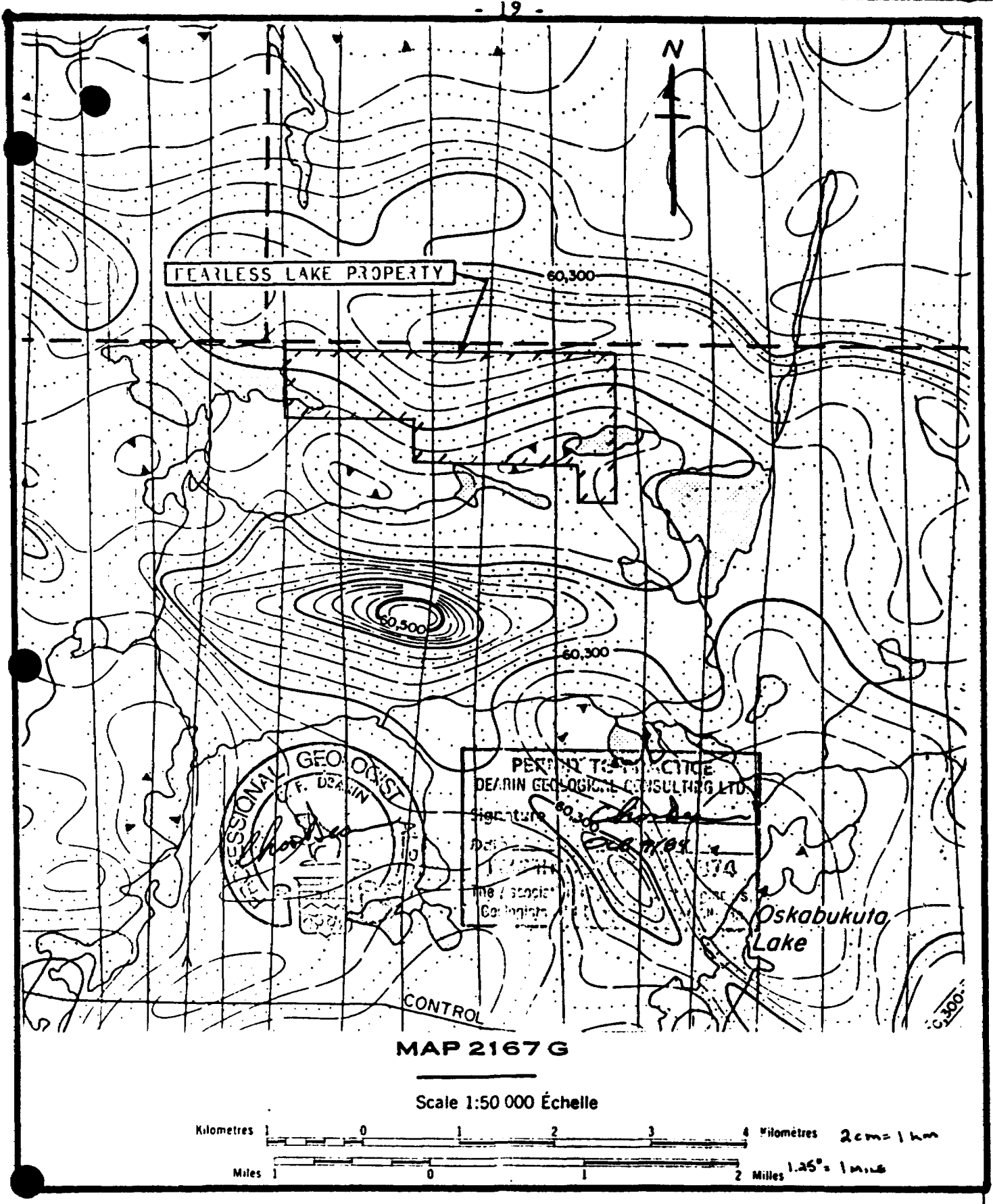


Figure 7: Regional Aeromagnetic Map of Property and Area.

CONCLUSIONS

The property has received a preliminary but fairly comprehensive evaluation through mapping, prospecting and geophysics.

Two mineral showings were discovered during mapping and prospecting. Although both the geology and mineralization appeared interesting, all assays yielded only traces of silver and background gold contents.

The VLF EM-16 survey did not locate any significant conductors, although the granite-volcanic contact and the mineralized shear as well as its extension were defined as weak anomalies. Unfortunately, more favorable transmitting stations were not operating and hence could not be used in the survey.

Because of the lack of a favorable host rock (ie. metasediments) on the claims and the extremely low gold values obtained in altered mineralized areas, no further work is recommended.

REFERENCES

Milne, V.G., 1968: Manitouwadge Sheet, District of Thunder Bay and Algoma; Ontario Dept. Mines, Prel. Geol. Map, P. 494 (1"=2 Miles).

Muir, T.L., 1982: Geology of the Hemlo Area, District of Thunder Bay, Ontario Geol. Surv., Rept. 217, 65p.

Northern Miner Press, 1982-1984: Various Articles on the Hemlo Area.

Ontario Department of Mines, 1972: Manitouwadge Wawa Sheet Algoma, Cochrane, Sudbury and Thunder Bay Districts: Ontario Dept. Mines, Map 2220 (1"=4 miles).

CERTIFICATE OF QUALIFICATIONS

I, Charlie Dearin, of the City of Calgary, Province of Alberta, do hereby certify:

THAT I am a practising Mining Geologist residing at 320 Whiteland Drive N.E., Calgary, Alberta, T1Y 3M6.

THAT I am a registered Professional Geologist with the Association of Professional Engineers, Geologists and Geophysicists of Alberta.

THAT I received a B.Sc. degree in Geology from Memorial University of Newfoundland, St. John's, Newfoundland in 1975.

THAT I am employed by and am President of Dearin Geological Consulting Ltd.

THAT I have practised my profession as a Mining Geologist continuously since 1975.

THAT I do not have, nor do I expect to receive any interest in the Securities or properties of New Fourty Four Mines Ltd.

THAT this report is based on my personal examination and supervision of the described work program carried out on the Fearless Lake Property, Hemlo Area, Ontario from July 10 to July 21, 1984.

Dated at Calgary, Alberta
this 9th day of October,
1984



Charlie Dearin, P.Geol.



PERMIT TO PRACTICE DEARIN GEOLOGICAL CONSULTING LTD.
Signature <u>Charlie Dearin</u>
Date <u>Oct 9/84</u>
PERMIT NUMBER: P 2370
The Association of Professional Engineers, Geologists and Geophysicists of Alberta

APPENDIX A

**Assay Certificate and Invoice
Terra Min. Research Labs, Calgary Alberta**



TERRAMIN RESEARCH LABS LTD.

ANALYTICAL REPORT

Job # 84-154

Dearin Consulting

Date Aug. 3, 1984

Client Project

Page 1/1

Sample No.	Au ppb	Ag ppb	Cu ppm	Pb ppm
2201	10	160	340	
2202	2	910	4000	
2203	4	680	3100	
2204	8	100	550	
2205	6	190	410	
2206	10	100	400	
2207	4	100	82	
2208	6	90	196	59
2209	2	90	17	
2210	6	60		
2211	2	30		
2212	4	70		
2213	2	150		
2214	2	520	1930	
2215	2	580	3200	

TerraMin Research Labs Ltd.
 14 - 2235 30th Ave. N.E.
 Calgary, Alberta
 T2E 7C7

51166

SOLD TO Dearin Geological Consulting Ltd.
 320 Whiteland Dr. N.E.
 Calgary, Alberta T1Y 3M6

S
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P
T
O

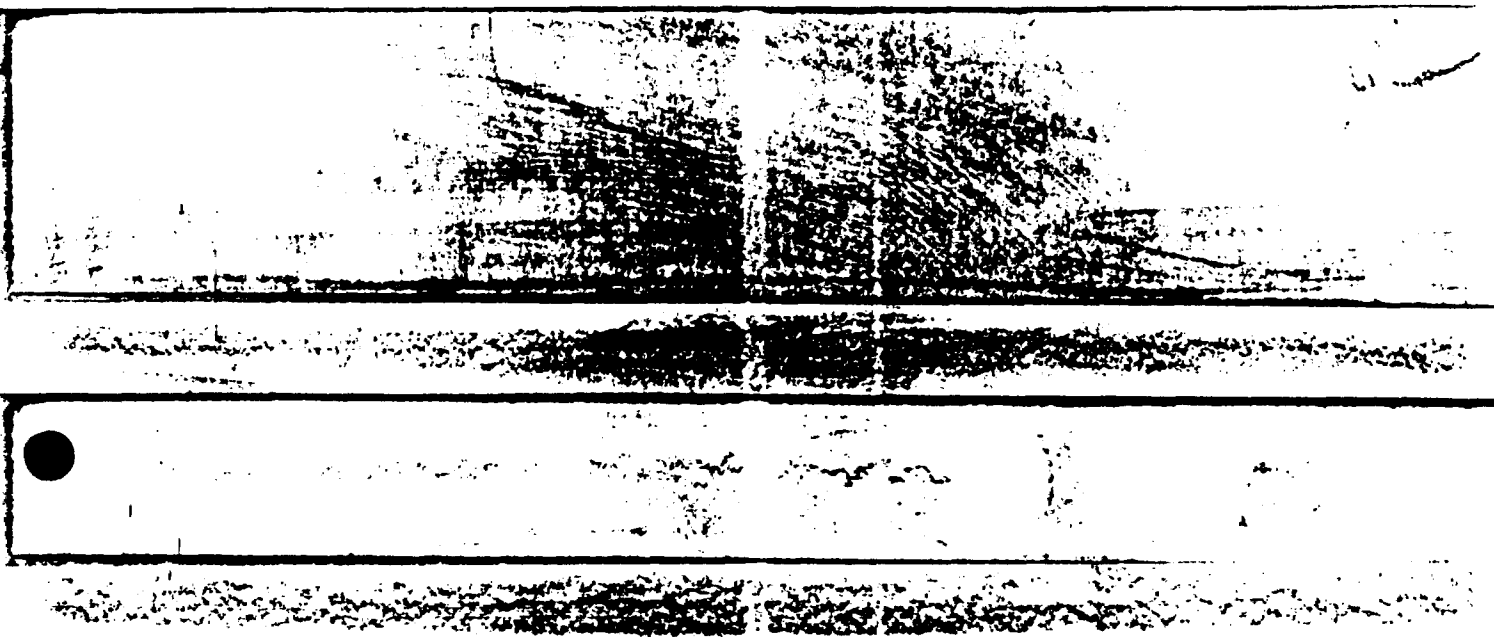
DATE	SHIPPED VIA	FED. LICENCE NO.	PROV. LICENCE NO.	YOUR ORDER NO.	OUR ORDER NO.	TERMS	SALESMAN
Aug. 3/84					84-154	30 days	
BACK ORDERED	QTY. ORDERED	DESCRIPTION			QTY. SHIPPED	UNIT PRICE	AMOUNT
		Rock sample preparation			15	2.75	41 25
		Gold & Silver analysis (Fire Assay/AA)			15	7.30	109 50
		Copper analysis			11	2.00	22 00
		Lead "			1	0.80	0 80
							\$ 173 55
INVOICE		BACK ORDERED ITEMS WILL BE SHIPPED AS SOON AS AVAILABLE UNLESS WE ARE OTHERWISE ADVISED. N/A ITEMS ARE NOT AVAILABLE AND HAVE NOT BEEN BACK ORDERED.			DATE SHIPPED	B/O FROM	B/O TO

PAID AUG 13 1984

MOORE SPEEDSET 75015E

E 30E

INVOICE



APPENDIX B
VLF EM-16 Profiles



900

Mining Lands Section

File No 2.7707

Control Sheet

TYPE OF SURVEY	<input checked="" type="checkbox"/>	GEOPHYSICAL
	<input checked="" type="checkbox"/>	GEOLOGICAL
	<input type="checkbox"/>	GEOCHEMICAL
	<input type="checkbox"/>	EXPENDITURE

MINING LANDS COMMENTS:

h.D.

Lyd.

S. Hurst
Signature of Assessor

85-05-06
Date



GEOPHYSICAL - GEOLOGICAL - GEOCHEMICAL
TECHNICAL DATA STATEMENT

TO BE ATTACHED AS AN APPENDIX TO TECHNICAL REPORT
FACTS SHOWN HERE NEED NOT BE REPEATED IN REPORT
TECHNICAL REPORT MUST CONTAIN INTERPRETATION, CONCLUSIONS ETC.

Type of Survey(s) Geological and Geophysical
Township or Area Oskabukum Lake (M-16) & White Lake (G623)
Claim Holder(s) Geotest Corp.
New Fourty Four Mines Ltd.
Survey Company Dearin Geological Consulting Ltd.
Author of Report Charlie Dearin, P.Geol.
Address of Author 320 Whiteland Dr. N.E. Calgary, ALTA
Covering Dates of Survey July 10-July 22, 1984
(linecutting to office)
Total Miles of Line Cut 18.8 miles

MINING CLAIMS TRAVERSED
List numerically

- | SSM (preks) | (number) |
|-------------|----------|
| SSM 710295 | |
| " 710296 | |
| " 710297 | |
| " 710298 | |
| " 710299 | |
| " 710311 | |
| " 710312 | |
| " 710315 | |
| " 710316 | |
| " 710317 | |
| " 710318 | |
| " 710319 | |
| " 710320 | |
| " 710321 | |
| " 710322 | |
| " 710323 | |
| " 710324 | |
| " 710325 | |
| " 710326 | |
| " 710327 | |
| " 710328 | |
| " 710329 | |

If space insufficient, attach list

SPECIAL PROVISIONS CREDITS REQUESTED	DAYS per claim
Geophysical	
-Electromagnetic _____	
-Magnetometer _____	
-Radiometric _____	
-Other _____	
Geological _____	
Geochemical _____	

ENTER 40 days (includes line cutting) for first survey.
ENTER 20 days for each additional survey using same grid.

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

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

DATE: Jan 16/84 SIGNATURE: Charlie Dearin
Author of Report or Agent

Res. Geol. _____ Qualifications this file.

Previous Surveys

File No.	Type	Date

RECEIVED

JAN 25 1985

MINING LANDS SECTION

TOTAL CLAIMS 22

GEOPHYSICAL TECHNICAL DATA

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

Number of Stations 405 Number of Readings 550
Station interval 100 - 200 feet Line spacing 400 feet
Profile scale 1" = 500' (horizontal); 1" = 20% (vertical)
Contour interval N/A

MAGNETIC

Instrument Geometrics G816 Magnetometer
Accuracy - Scale constant * 1 gamma
Diurnal correction method proportional time (not done due to erratic results)
Base Station check-in interval (hours) 30 minutes to 2 hours
Base Station location and value 0+00 (BL) & 20+00E New Fourty Four Mines Ltd.
Fearless Lake Grid.

ELECTROMAGNETIC

Instrument Geonics VLF EM-16
Coil configuration 2 receiving (1 Vertical; 1 Horizontal)
Coil separation Fixed in instrument
Accuracy * 1% of scale range (inphase=150% ; quad= 40%
Method: Fixed transmitter Shoot back In line Parallel line
Frequency 18.6 kHz (seattle, Washington)
(specify V.L.F. station)
Parameters measured Vertical (inphase & quadrature) components of
secondary magnetic field.

GRAVITY

Instrument _____
Scale constant _____
Corrections made _____
Base station value and location _____
Elevation accuracy _____

INDUCED POLARIZATION
RESISTIVITY

Instrument _____
Method Time Domain Frequency Domain
Parameters - On time _____ Frequency _____
- Off time _____ Range _____
- Delay time _____
- Integration time _____
Power _____
Electrode array _____
Electrode spacing _____
Type of electrode _____



Ministry of
Natural
Resources

Ontario

**Technical Assessment
Work Credits**

File
2.7707

Date
1985 05 17

Mining Recorder's Report of
Work No. **282-84**

Recorded Holder
JENS HANSEN (IN TRUST)

Township or Area
LABERGE TOWNSHIP AND OSKABUKUM LAKE AREA

Type of survey and number of Assessment days credit per claim	Mining Claims Assessed
Geophysical Electromagnetic _____ days Magnetometer _____ days Radiometric _____ days Induced polarization _____ days Other _____ days	<p>\$173.55 SPENT ON ASSAYING SAMPLES TAKEN FROM MINING CLAIMS:</p> <p>SSM 710318-20</p> <p>11.5 DAYS CREDIT ALLOWED WHICH MAY BE GROUPED IN ACCORDANCE WITH SECTION 76(6) OF THE MINING ACT R.S.O. 1980.</p>
Section 77 (19) See "Mining Claims Assessed" column	
Geological _____ days	
Geochemical _____ days	
<input type="checkbox"/> Man days <input type="checkbox"/> Airborne	
<input type="checkbox"/> Special provision <input type="checkbox"/> Ground	
<input type="checkbox"/> Credits have been reduced because of partial coverage of claims.	
<input type="checkbox"/> Credits have been reduced because of corrections to work dates and figures of applicant.	

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

No credits have been allowed for the following mining claims

not sufficiently covered by the survey Insufficient technical data filed

The Mining Recorder may reduce the above credits if necessary in order that the total number of approved assessment days recorded on



Ministry of
Natural
Resources

**Technical Assessment
Work Credits**

File
2.7707

Date
1985 05 17

Mining Recorder's Report of
Work No. **282-84**

Recorded Holder
JENS HANSEN (IN TRUST)

Township or Area
LABERGE TOWNSHIP AND OSKABUKUM LAKE AREA

Type of survey and number of Assessment days credit per claim	Mining Claims Assessed
Geophysical Electromagnetic <u>12.27</u> days Magnetometer _____ days Radiometric _____ days Induced polarization _____ days Other _____ days Section 77 (19) See "Mining Claims Assessed" column Geological <u>8.21</u> days Geochemical _____ days Man days <input checked="" type="checkbox"/> Airborne <input checked="" type="checkbox"/> Special provision <input type="checkbox"/> Ground <input type="checkbox"/> <input type="checkbox"/> Credits have been reduced because of partial coverage of claims. <input type="checkbox"/> Credits have been reduced because of corrections to work dates and figures of applicant.	SSM 710295 to 299 inclusive 710311-12 710315 to 329 inclusive

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

No credits have been allowed for the following mining claims

not sufficiently covered by the survey Insufficient technical data filed

The Mining Recorder may reduce the above credits if necessary in order that the total number of approved assessment days recorded on

DEARIN GEOLOGICAL CONSULTING LTD.

No 221

320 WHITELAND DRIVE N.E.
CALGARY, ALBERTA T1Y 3M6
PHONE (403) 293-1074

Aug 13 1980

PAY
TO THE
ORDER OF

Terramin Research Labs Ltd

\$ *179.55*

One Hundred Seventy Three

55 DOLLARS
100

THE ROYAL BANK OF CANADA

WHITEMORN DR. & 49TH ST N.E.
5008 WHITEMORN DRIVE N.E.
CALGARY, ALBERTA T1Y 1V1

DEARIN GEOLOGICAL CONSULTING LTD.

Ch. Dearin

LOLLIP

TERRAMIN RESEARCH LABS LTD.
14, 2235 - 80th AVENUE N.E.
CALGARY, ALBERTA T2E 7G7
(403) 278-8688

DEARIN GEOLOGICAL CONSULTING LTD.
320 WHITELAND AVENUE N.E.
CALGARY, ALBERTA T2E 7G7
(403) 276-8038

2000-0000

	G111-2			G111-1		2-7707			
710295	✓	✓		710325	✓	✓			
96	✓	✓		26	✓	✓			
97	✓	✓		27	✓	✓			
98	✓	✓		28	✓	✓			
99	✓	✓		29	✓	✓			
311	✓	✓							
12	✓	✓							
15	✓	✓							
16	✓	✓							
X 17	✓	✓	X						
X 18	✓	✓	X						
19	✓	✓							
20	✓	✓	✓						
21	✓	✓							
22	✓	✓							
23	✓	✓							
X 24	✓	✓	X						



Ministry of
Natural
Resources
Ontario

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

#282-84

file 2.7707
The Mining Act

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.

Type of Survey(s) **GEOLOGICAL, GEOPHYSICAL** Township Area **White Lake (H-16) Oskabukum Lake (G-623)**

Claim Holder(s) **Jens Hansen, 90x 11385, Sta. H, 19 Nesbitt St. Neapean, Ont. (IN TRUST) K2H 7V1** Prospector's Licence No. **A 45202**

Address **New Fourty Four Mines Ltd, 1500, 324-8 Ave, S.W., Calgary, ALTA T2P 2Z2**

Survey Company **Dearin Geological Consulting Ltd.** Date of Survey (from & to) **10 / 7 / 84 to 21 / 7 / 84** Total Miles of line Cut **18.8 miles**

Name and Address of Author (of Geo-Technical report) **Charlie Dearin 320 Whiteland Dr. N.E., Calgary, ALTA T1Y 3M6**

Credits Requested per Each Claim in Columns at right

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

Man Days	Geophysical	Days per Claim
Complete reverse side and enter total(s) here	- Electromagnetic	12.27
	- Magnetometer	
	- Radiometric	
	- Other	
	Geological	8.21
	Geochemical	

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

Mining Claims Traversed (List in numerical order)

Prefix	Number	Expend. Days Cr.
SSM	710295	
	710296	
	710297	
	710298	
	710299	
	710311	
	710312	
	710315	
	710316	
	710317	
	710318	11.5
	710319	
	710320	
	710321	
	710322	
	710323	
	710324	
	710325	
	710326	
	710327	
	710328	
	710329	

Large Oskabukum L.

RECEIVED
JAN 29 1985
MINING LANDS SECTION

SAULT STE MARIE
RECEIVED
DEC 3 1984
10, 11, 12, 13, 14, 15, 16

Expenditures (excludes power stripping)

Type of Work Performed **Rock Assays**

Performed on Claim(s) **SSM 710317, 710318, 710324**

Calculation of Expenditure Days Credits
Total Expenditures \$ **173.55** + **15** = Total Days Credits **11.5**

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.

Date **Nov 26/84** Recorded Holder or Agent Signature *[Signature]*

For Office Use Only
Total Days Cr. Recorded **462.06** Date Recorded **Nov 3/84** Mining Recorder *[Signature]*
Date Approved as Recorded *[Signature]* Branch Director *[Signature]*

Certification Verifying Report of Work
I hereby certify that I have a personal and intimate knowledge of the facts set forth in the Report of Work annexed hereto, having performed the work or witnessed same during and/or after its completion and the annexed report is true.

Name and Postal Address of Person Certifying **Charlie Dearin 320 Whiteland Dr. N.E. Calgary, ALTA T1Y 3M6**
Pros. Lic. No. **E 30297** Date Certified **Nov 26/84** Certified by (Signature) *[Signature]*

file no SSM 710210



Dearin Geological Consulting Ltd.

Mining - Development - Exploration Geology

CHARLIE DEARIN, P. GEOL.
President
Res: [403] 280-6576

320 Whiteland Dr. N. E.
Calgary, Alberta T1Y 3M6
Bus: [403] 293-1074

January 21, 1985

Ministry of Natural Resources
Mining Lands Section
Room 6610, Whitney Block
Queens Park
Toronto, Ontario
M7A 1W3

Dear Sir:

Enclosed please find two completed Technical Data Statements and two copies of our geological/geophysical report with maps on 22 mineral claims in the Oskabukum-White Lake areas. This information is submitted on behalf of New Forty Four Mines Ltd., Calgary, Alberta.

Sincerely

Charlie Dearin, P. Geol.

CD/dd

Encls.

cc. New Forty-Four Mines Ltd.

RECEIVED

JAN 25 1985

MINING LANDS SECTION

February 8, 1985

File: 2.7707

Jens Hansen
Box 11385
Station H
19 Nesbitt Street
Sudbury, Ontario
K2H 7V1

Dear Sir:

RE: Geophysical (Electromagnetic) and Geological Survey
and Data for Assaying submitted on Mining Claims
SSN 710295, et al, in the Areas of White Lake and
Oskabukim Lake

This will acknowledge receipt of the above-described
survey on January 25, 1985.

Returned herein is the geological plan (in duplicate).
Please show the nature of the overburden where no outcrops
occur.

Also, please submit (in duplicate), receipts or cancelled
cheques as proof of payment for expenditure credits claimed
(\$173.65).

When submitting this information, please quote File 2.7707.

For further information, please contact Susan Hurst 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

S. Hurst:mc

cc: Mining Recorder
Sault Ste. Marie, Ontario

Encl.

cc: Charlie Dearin
320 Whiteland Dr. N.E.
Calgary, Alberta
T1Y 3N6

REGISTERED

March 28, 1985

File: 2.7707

Jens Hansen
Box 11385, Station "H"
19 Nesbitt Street
Nepean, Ontario
K2H 7V1

Dear Sir:

RE: Geophysical (Electromagnetic) and Geological
Survey and Data for Assaying submitted on
Mining Claims SSH 710295, et al in the Areas
of White Lake and Oskabukum Lake

Enclosed is a copy of our letter dated February 8, 1985
requesting additional information for the above-mentioned
survey.

Unless you can provide the required data by April 10, 1985
the mining recorder will be directed to cancel the geological
and expenditure work credits recorded on December 3, 1984.

For further information, please contact Mr. Ray Pichette
at (416)965-4888.

Yours sincerely,

S.E. Yundt
Director
Land Management Branch

Whitney Block, Room 6643
Queen's Park, Toronto
Telephone: 416/965-6918

8c:Hurst:mc

cc: Mining Recorder
Sault Ste. Marie, Ontario
File: #282-84

cc: Charlie Dearn
320 Whiteland Drive N.E.
Calgary, Alberta
T1Y 3M6

Encl.



Dearin Geological Consulting Ltd.

Mining - Development - Exploration Geology

CHARLIE DEARIN, P. GEOL.
President
Res: [403] 280-6576

320 Whiteland Dr. N. E.
Calgary, Alberta T1Y 3M6
Bus: [403] 293-1074

Mr. Ray Pichette
Land Management Branch
Whitney Block, Room 6643
Queens Park
Toronto, Ontario
M7A 1W3

April 3, 1985

Dear Sir;

RE: File 2.7707

Enclosed are duplicate geological plans showing the nature of the overburden where no outcrops occur. Please note that the entire claim group is covered with a mixture of fir-spruce-balsam-birch except where swampy areas, as shown in detail on the maps, occur.

Also enclosed are duplicate copies of the cancelled cheque for assays.

Sincerely,

Charlie Dearin, P.Geol.

REGISTERED

April 26, 1985

File: 2.7707

Jens Hansen
Box 11385, Station "H"
19 Nesbitt Street
Nepean, Ontario
K2H 7V1

Dear Sir:

RE: Geophysical (Electromagnetic) Geological
Survey and Data for Assaying submitted
on Mining Claims SSM 710295, et al in
the Areas of White Lake and Oskabukum
Lakes

Enclosed is a copy of our letter dated February 8,
1985 requesting additional information for the
above-mentioned survey.

Unless you can provide the required data by May 6, 1985,
I will have no other alternative but to instruct the
mining recorder to cancel the work credits recorded
on December 3, 1984.

For further information, please contact Mr. Ray Pichette
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

S. Hurst:mc

cc: Mining Recorder
Sault Ste. Marie, Ontario
(#282-84)

cc: Charlie Dearin
320 Whiteland Dr. N.E.
Calgary, Alberta
T1Y 3M6

Encl.

1985 06 04

Your File: 2.7707
Our File: 282-84

Mining Recorder
Ministry of Natural Resources
875 Queen Street East
Box 669
Sault Ste. Marie, Ontario
P6A 5N2

Dear Madam:

RE: Geophysical (Electromagnetic), Geological Survey
and Assaying submitted under Section 77(19) of
the Mining Act RSO 1980, on Mining Claims SSM 71025,
et al, in the Township of Laberge and Oskabukum Lake
Area

The enclosed statement of assessment work credits for
a Geophysical (Electromagnetic), Geological Survey and
assaying expenditures has 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

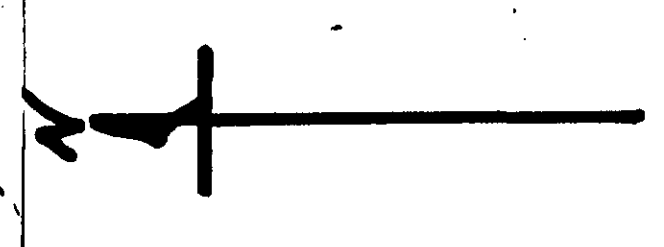
S. Hurstmc

cc: Jens Hansen (In Trust)
Nepean, Ontario
cc: Charlie Dearin
Calgary, Alberta
cc: Resident Geologist
Sault Ste. Marie, Ontario
Encl.

FOR ADDITIONAL
INFORMATION

SEE MAPS:

42C/12SE-0012 # 1-5



North boundary of claims is accurately
over 500 feet north of here,
as indicated by claim posts in the area.

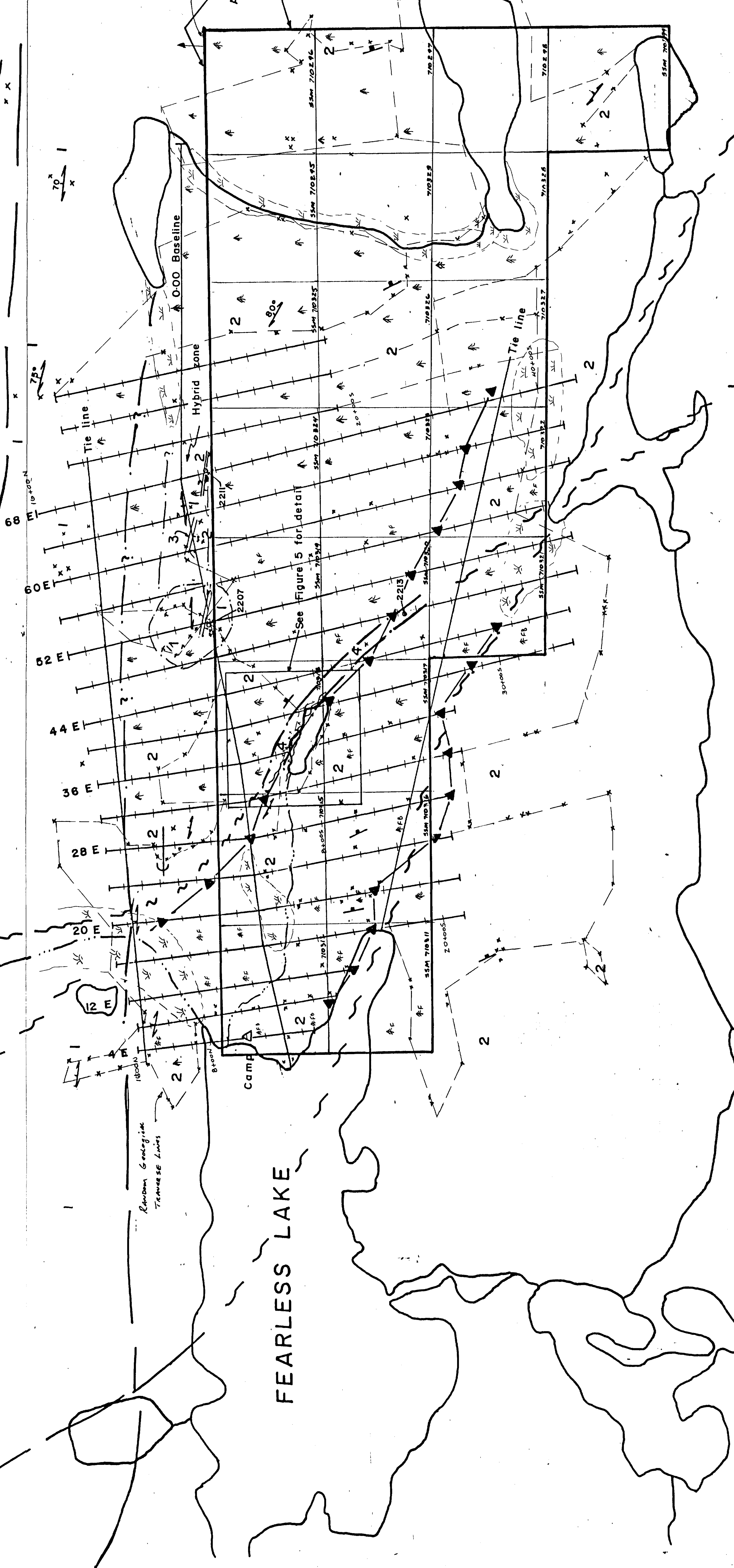
FEARLESS LAKE

APPROXIMATE CLAIM BOUNDARIES
OF
PROPERTY

Random Geo-Logistic
Ternese Lenses

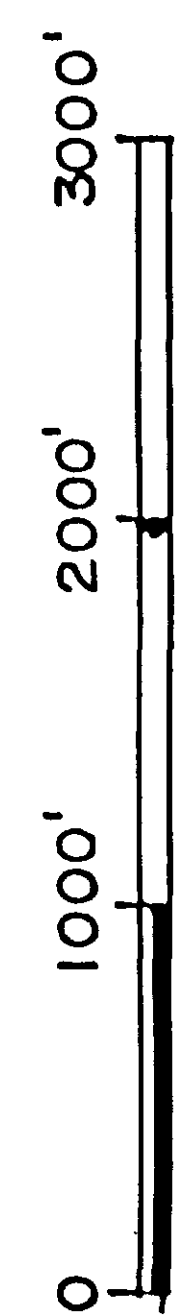
LEGEND

- 4 Diabase dike
 - 3 Aplite dike
 - 2 Granite gneiss
 - 1 Mafic volcanics (amphibolites)
-
- ▲ VLF EM Conductor axis
 - Geological contact
 - ~ Fault-shear
 - ~ Jointing
 - ~ Foliation-gneissosity
 - ~ Glacial striae
 - Lineament
 - Rock outcrop
 - Sample location & no.



See Figure 5 for detail

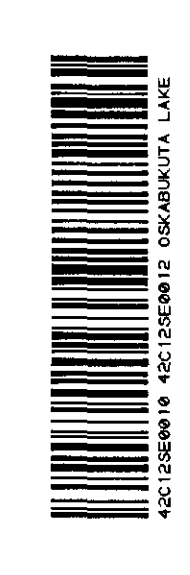
Over Bureau
 AF = Missing - Swamp - Areas.
 AF = File - Sparse } covers all of claims except where swamp is shown.
 AB = Block - Broken

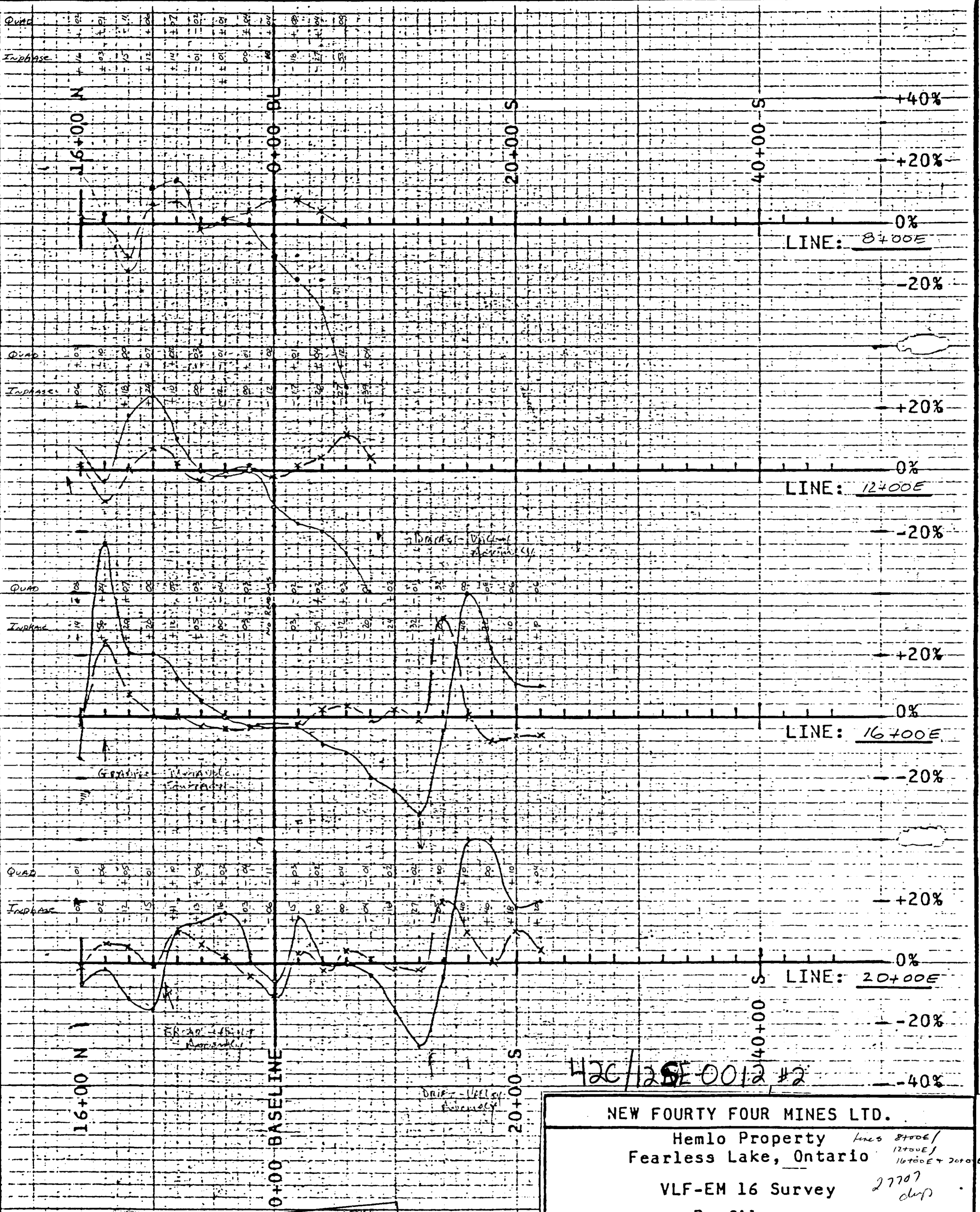


PERMIT TO PRACTICE
 DEARIN GEOLOGICAL CONSULTING LTD.
 Signature: [Signature]
 Date: 11/18/84
 The Province of Alberta, Canada
 Registration No. 25279

NEW FORTY FOUR MINES LTD.	
HEMLO PROPERTY Fearless Lake, Ontario	
GEOLOGICAL MAP of PROPERTY	
Drawn by: CD	Date: Oct. 9/84
Checked by: [Signature]	File No.: 42C/12
Scale: 1" = 1000'	
NTS No.: 42C/12	
Ref. No.: FIG. 6	

42C/125E-0012 #1





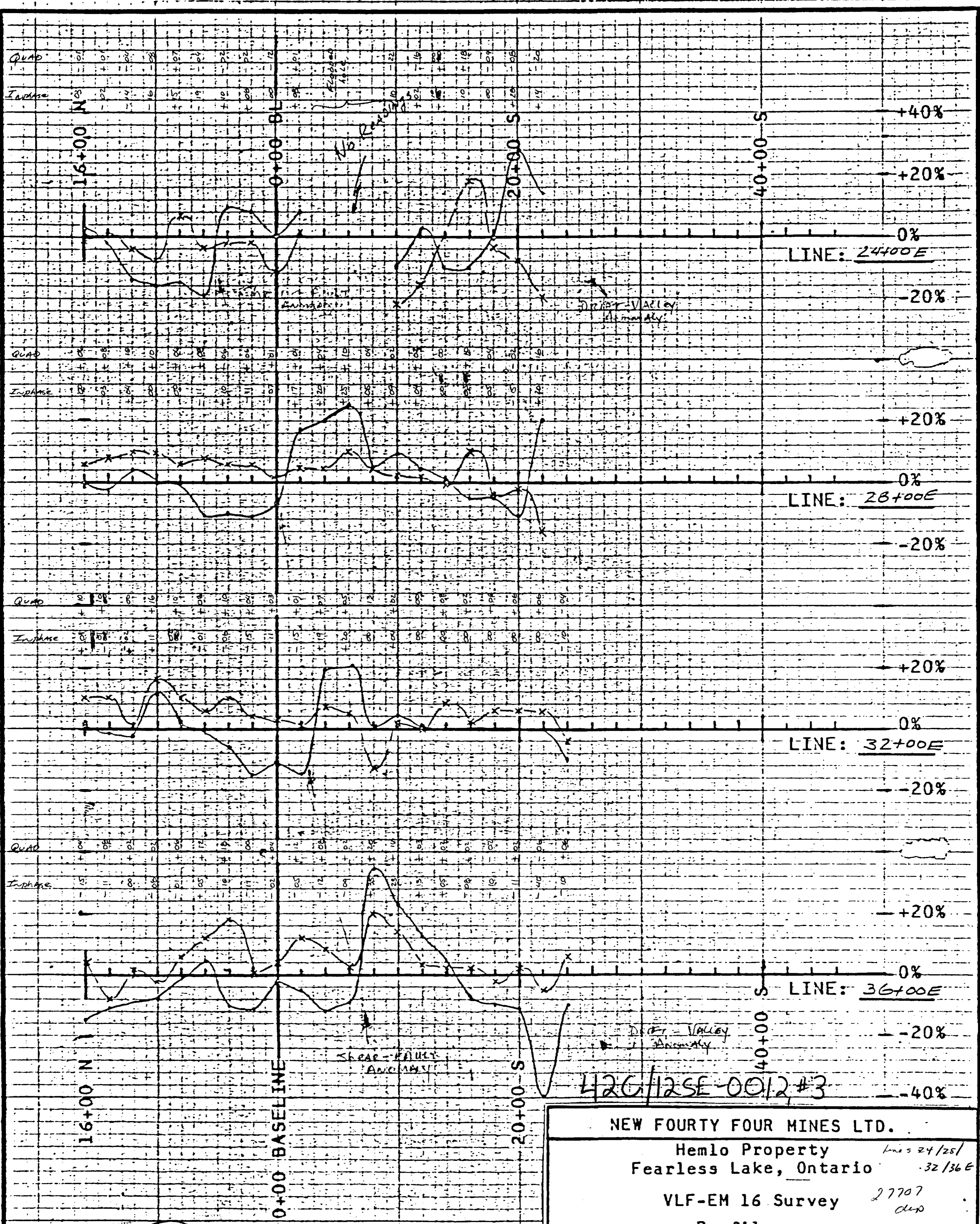
42C/12SE-0012 #2

NEW FOURTY FOUR MINES LTD.		
Hemlo Property		Lines 8+00E / 12+00E / 16+00E + 20+00E
Fearless Lake, Ontario		
VLF-EM 16 Survey		27707 dup
Profiles		
Drawn by: CD	Date: Sept/84	Scale: 1" = 100' 500'
Checked by:	File No:	NTS No.:
DEARIN GEOLOGICAL CONSULTING LTD.		Ref. No.:



PERMIT TO PRACTICE
 DEARIN GEOLOGICAL CONSULTING LTD.
 Signature: [Handwritten Signature]
 Date: 16/85



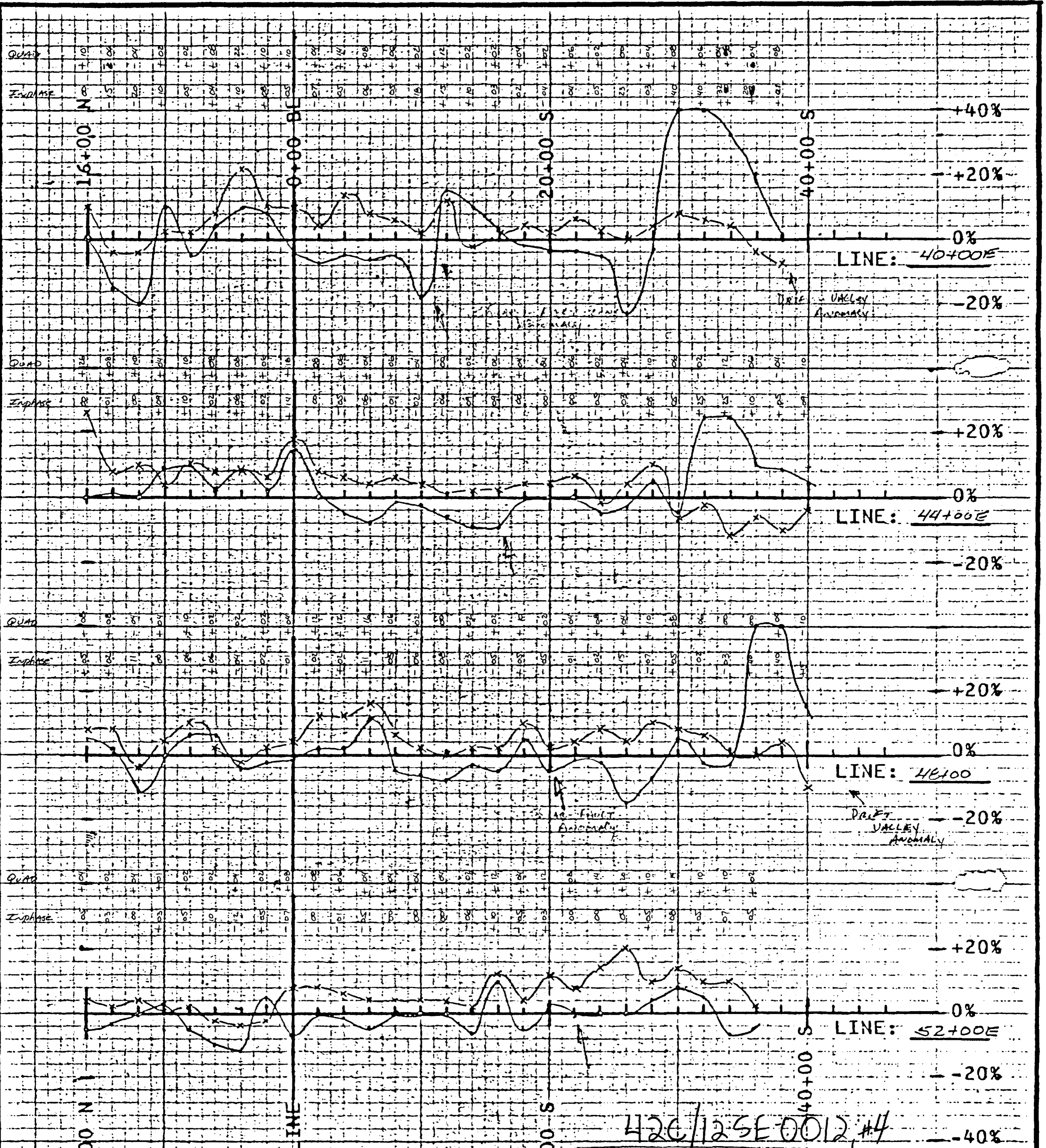


NEW FOURTY FOUR MINES LTD.		
Hemlo Property		Lines 24/25/
Fearless Lake, Ontario		32/36E
VLF-EM 16 Survey		27707
Profiles		dep
Drawn by: CD	Date: Sept/84	Scale: 1" = 100' / 500'
Checked by:	File No.:	NTS No.:
DEARIN GEOLOGICAL CONSULTING LTD.		Ref. No.:



PERMIT TO PRACTICE
 DEARIN GEOLOGICAL CONSULTING LTD.
 Signature: [Handwritten Signature]
 Date: [Handwritten Date]
 The Association of Professional Geologists
 Geologists and Geophysicists of Alberta





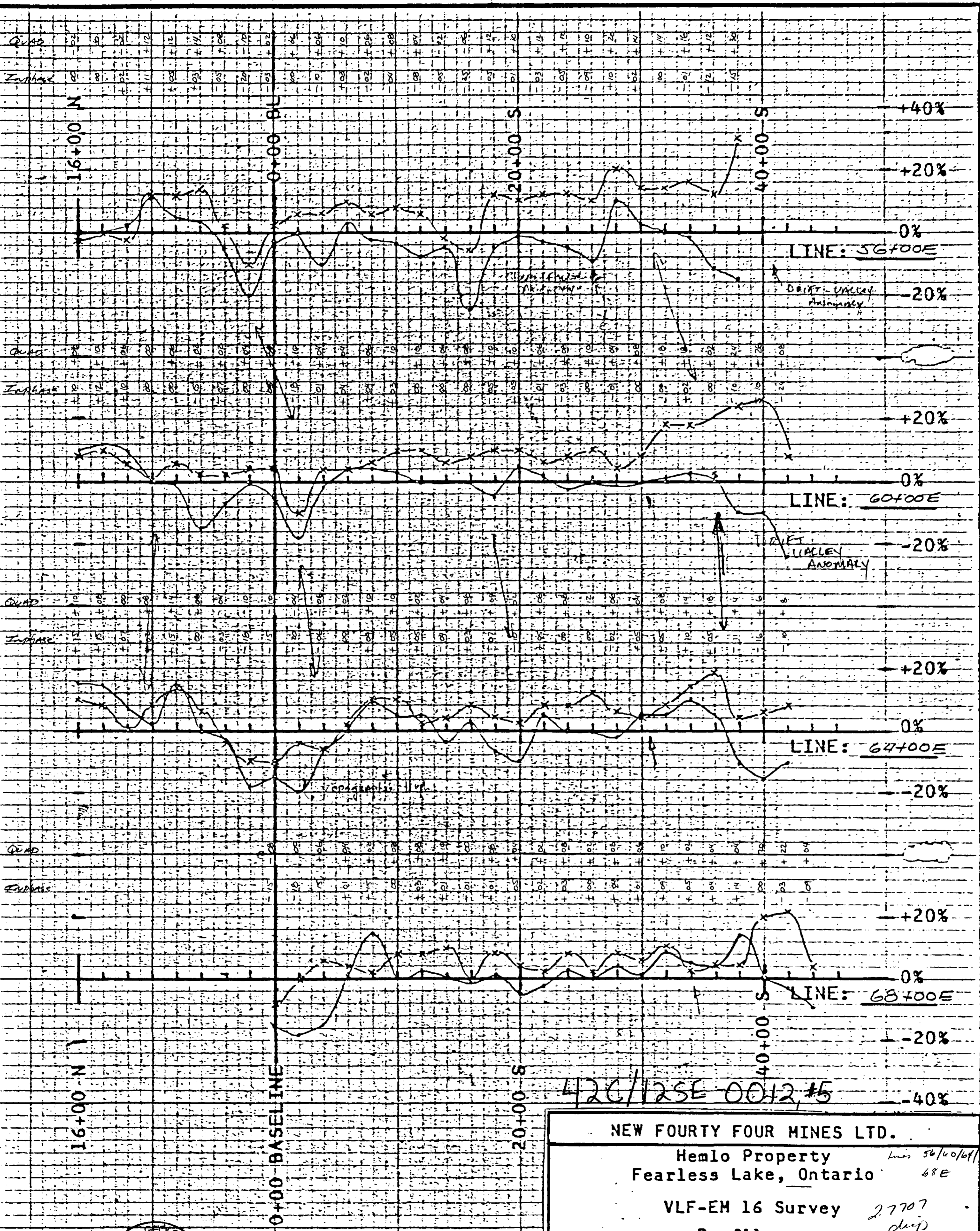
42C/12SE-0012 #4

NEW FORTY FOUR MINES LTD.		
Hemlo Property		Lines 40/44/48/52 E
Fearless Lake, Ontario		
VLF-EM 16 Survey		27707 dup
Profiles		
Drawn by: CD	Date: Sept/84	Scale: 1" = 500'
Checked by:	File No.:	NTS No.:
DEARIN GEOLOGICAL CONSULTING LTD.		Ref. No.:



PERMIT TO PRACTICE
 DEARIN GEOLOGICAL CONSULTING LTD.
 Signature: [Signature]
 Date: [Date]
 FLSHIP NUMBER: [Number]
 The Association of Professional Geologists and Geophysicists of Ontario





42C/12SE-0012, #5

NEW FOURTY FOUR MINES LTD.		
Hemlo Property		Line 56/60/64/
Fearless Lake, Ontario		68E
VLF-EM 16 Survey		27707
Profiles		dup
Drawn by: CD	Date: Sept/84	Scale: 1" = 100'
Checked by:	File No:	NTS No.:
DEARIN GEOLOGICAL CONSULTING LTD.		Ref. No.:



PERMIT TO PRACTICE
 DEARIN GEOLOGICAL CONSULTING LTD.
 Signature: [Signature]
 Date: 16/84
 The Association of Professional Engineers and Geologists of Ontario

