Assessment Report of the 2011 Evaluation Work on the Garnet Claims, Garnet Twp, Porcupine District, Ontario NTS 041O09 and 041O10

Cascadero Copper Corp.
Vancouver, B.C.

By

J. Camier, M.Sc., P.Geo.
(APEGM, APEGS, APEGGA, APGO)
Brandon, Manitoba

October 03, 2011

Technical Report Prepared For:
Cascadero Copper Corp.
301-260 West Esplanade
North Vancouver, B.C.
V7M 3G7

Executive Summary

In August and September of 2011, Cascadero Copper Corp. undertook an evaluation of the Garnet Property located in Garnet Twp, NTS 041O09 and 041O10, Area G-1130, Porcupine District of Ontario. This property is comprised of 4 claims 4252207, 4252208, 4251100 and 4251382; totaling 59 claim units. Work conducted was to evaluate and assess the claims for further work.

The Garnet Property claims area investigated occurs primarily within the Swayze Greenstone Belt metavolcanic and metasedimentary rocks. The metavolcanic rocks consist of mafic to intermediate to felsic metavolcanics in origin, comprised of alternating basaltic to andesitic to dacitic flows, tuffs and breccias, and related migmatites. These metavolcanic units alternate with metasedimentary rocks comprised of marbles, chert and silicate facies iron formation. Intruding the metavolcanic and metasedimentary rocks are units of gabbro, anorthosite and occasional ultramafic rocks.

The area is prospective for gold exploration. Interest in the claims stems from Timmins prospector Mr. F. Ross who assayed two gold samples and found 0.9 and 0.68 g/t Au in sample number 3113 which records 9030 ppb Au; and, sample number H-5 which records 6860 ppb Au. These assay results can be found in assessment work report 41O09NW0041, and recorded under Ontario mineral occurrence (MDI41O10NE00019).

Preliminary field investigations of the Garnet Property resulted in a total of 32 samples collected for assay analyses. ***Assays are not reported in this assessment work report as they are still pending at the time of writing. An amended report covering the assay results will follow when assay results have been received and will supersede this work report.*** A total of 67 field observation stations were recorded at various locations accessed by road, ATV and/or foot traverses.

Highlights of the field investigations include the discovery of a previously unrecorded shear zone on the property trending 085° to 101° and dipping between 82°S and 90°, hosted within metavolcanic rocks. Sulphides were observed within the shear at trace to 1% comprised primarily of pyrite as fine-grained, finely disseminated cubes and aggregates with associated very trace to trace chalcopyrite mineralization. Assay results are pending.

Table of Contents

Body of Text

List of Figures

List of Tables

List of Appendices

1. Introduction

In July and August of 2010, Cascadero Copper Corp. (CCD) of Vancouver, B.C. undertook an evaluation of the Garnet Property located in Garnet Twp, NTS 041O09 and 041O10, Area G-1130, Porcupine District of Ontario. The property is comprised of 4 claims 4252207, 4252208, 4251100 and 4251382, totaling 59 claim units. The work was conducted by professional geologist Mr. J. Camier, M.Sc., P.Geo. (APEGM, APGO, APEGS, APEGGA) of Brandon, Manitoba; assisted by Mr. Phillip Allain, of Sudbury, Ontario, who assessed the property on behalf of CCD to determine if further work is required.

Assay results were not available at time of writing and are pending. An amended assessment report detailing the assay results will be submitted when they are available. The amended report will supersede this report, which covers only the work done to date. This report is strictly for work and assessment credits, as the property is due on October 15, this year.

2. Property Location and Access

The Garnet Property claims group list is presented in Table 1. The claims are located in north central Garnet Township, NTS 041O09 and 041O10, Area G-1130, Porcupine District of Ontario. Location maps are attached in Figure 1 (location) and Figure 2 (property).

Access to the Garnet Twp claims is via the Dore Road off the Sultan Industrial Road approximately 93 kilometers from Hwy 144 at the Watershed, from either Sudbury or Timmins. From Timmins, secondary access to the claims is via Hwy 101 to the Foleyet Timber Logging Road, which accesses the Dore Road, to Garnet Township. This is a distance of 170 kilometers, or 340 kilometers round trip. From Sudbury, access is via Hwy 144 to the intersection of Hwy 144 and the Sultan Industrial Road at the Watershed. This is a distance of approximately 260 kilometers, or a round trip distance of approximately 520 kilometers. The claims are readily accessible year round by truck on the Dore and Sultan all-weather gravel covered active and previously active logging roads.

Table 1: List of Claims of the Garnet Property

Claim Number	Township/Area	Recorded Holder	Due Date
4252207	Garnet (G-1130)	Cascadero Copper Corporation	October 15, 2011
4252208	Garnet (G-1130)	Cascadero Copper Corporation	October 15, 2011
4251100	Garnet (G-1130)	Cascadero Copper Corporation	October 15, 2011
4251382	Garnet (G-1130)	Cascadero Copper Corporation	October 15, 2011

Figure 1: Location Map (Courtesy of Cascadero Copper Corp.).

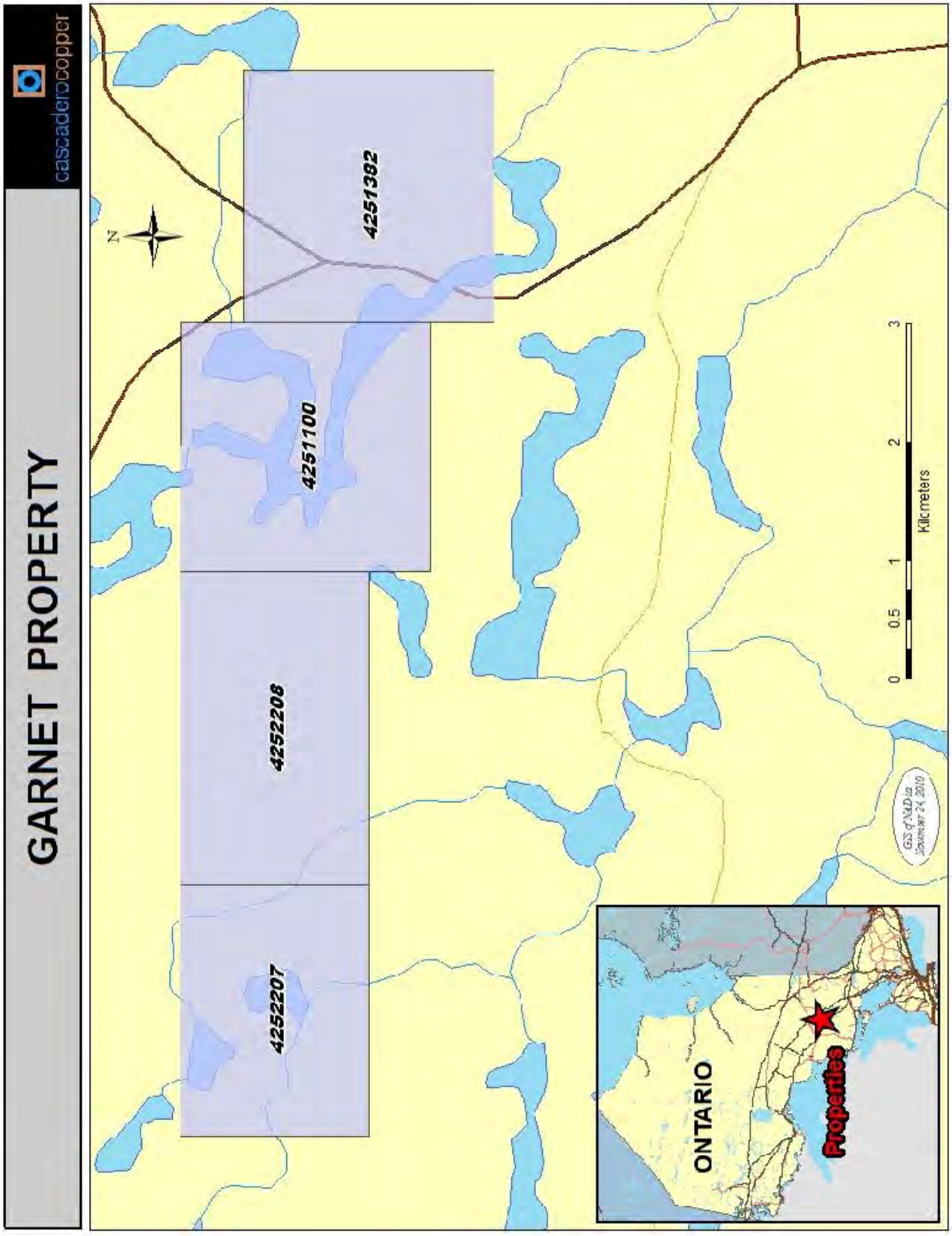
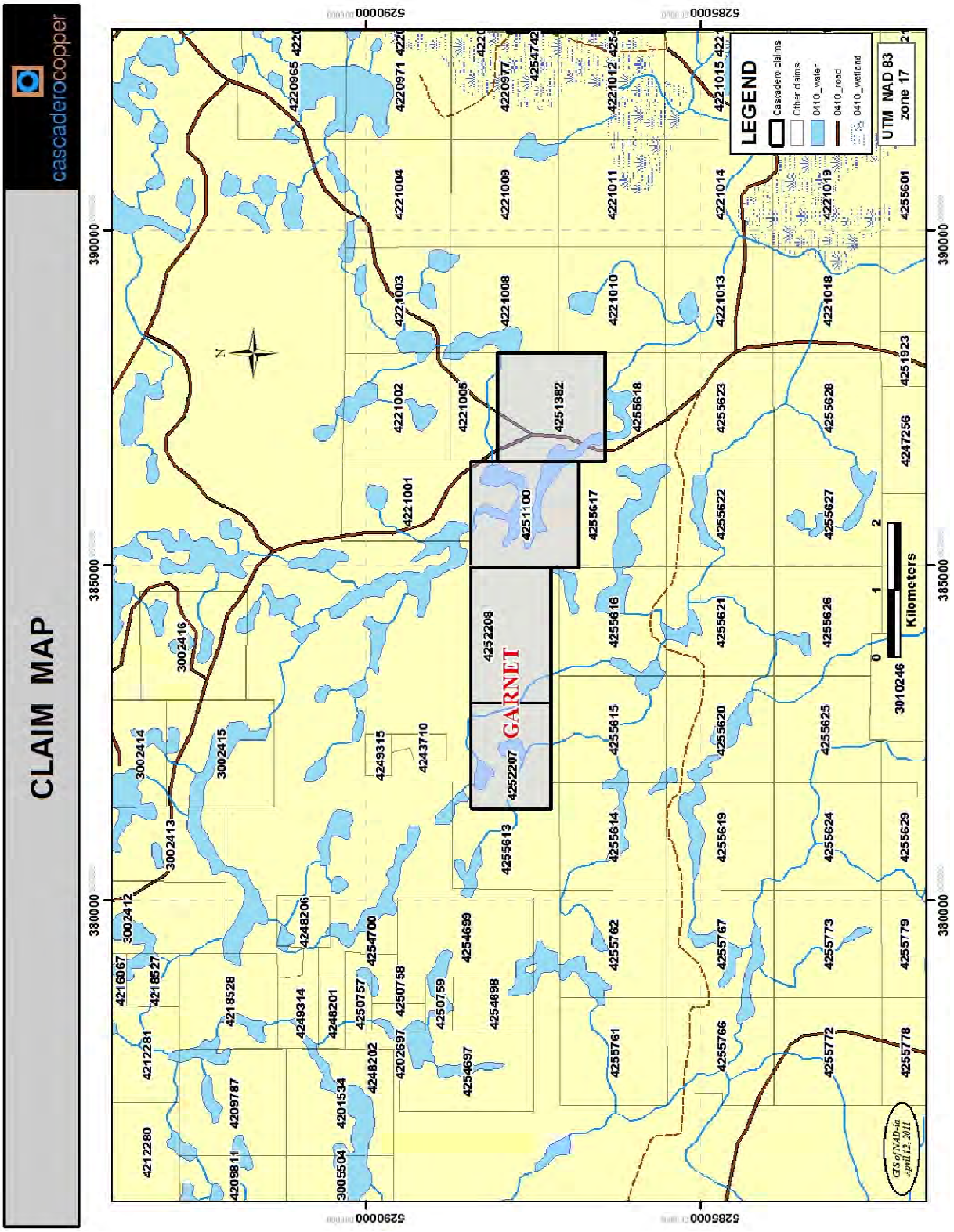


Figure 2: Property Map (Courtesy of Cascadero Copper Corp.).



3. Physiography

The physiography of the Davis Twp claims consists of typical Boreal forest covering moderate relief consisting of rolling hills, ridges, occasional outcroppings and glacial overburden. Good outcrop exposures are not plentiful, generally less than 3%. Forestry has over the past several decades cleared the older growth forest of spruce, Jack and Red Pine, and birch. Sections of the Garnet Property claims have been replanted with Jack and red Pine forest. This new growth is intermixed with stands of old and new growth aspen, tag alders, birch and spruce, with tamarack, cedar growth and shrubs occurring in low swampy ground and around small lakes, creeks and the Wakami River system.

4. Geology

Geology of the area as presented in Figure 3 is based on the Ontario Geological Survey MRD 216, Geology of Ontario. The map indicates the area consists of alternating units of metavolcanic and metasedimentary rocks comprised of mafic to intermediate to felsic metavolcanics of alternating basaltic pillows and/or andesitic flows to dacitic flows, tuffs, breccias, and related migmatites. These metavolcanic units alternate with metasedimentary rocks comprised of marbles, chert, and silicate facies iron formation. Intruding the metavolcanic and metasedimentary rocks are units of gabbro, anorthosite and occasional ultramafic rocks. All units are Archean in age (3.4 to 2.3 Ga) belonging to the Swayze Greenstone Belt.

During the course of the field seasons evaluation work, the geology was roughly mapped within the confined area of the claims (Figure 2). The rocks in claims 4252207 were found to consist primarily of mafic metavolcanic rocks comprised of well-preserved pillow structures outlined by chlorite + epidote-amphibole-quartz ± carbonate selvages that outcrop almost entirely within the claims area. Chlorite alteration is pervasive and appears as retrograde alteration. Fresh surfaces are greenish gray suggesting upper greenschist to lower amphibolite facies metamorphism was reached. These rocks were intruded by a large gabbroic dyke that has a strike direction of between 276°. Dip of the dyke is near vertical varying between 88°N to 90°.

A shear zone striking between 085° to 101° occurs within the northwest and central section of the claim, dipping between 82°S and 90°. Width of the shear is variable and difficult to discern, but seems to be approximately 150 to 200 metres wide. The shear appears to be developed primarily within the metavolcanic rocks. However, the northern section of the shear appears to crosscut metasedimentary rocks comprised of heterolithic conglomerates and tuffaceous sediments derived from mafic volcanic rock. Occasional subangular to elongate cobbles of dacitic rock were observed. Sulphides observed within the shear occur between trace to 1% comprised primarily of pyrite, occurring as fine-grained, finely disseminated cubes and aggregates with associated very trace to trace chalcopyrite mineralization.

The rocks on claim 4252208 have been reported as alternating units of metavolcanic and metasedimentary rocks. Outcrops observed consist primarily of mafic pillows, flows and breccias. No felsic metavolcanic rocks and/or metasedimentary rocks were observed. Though, only about ≤5% outcroppings occur, with the majority of the area covered in glacial overburden.

Outcrops on claim 4251100 have been reported as alternating units of metavolcanic and metasedimentary rocks. The rocks on this claim appear to be similar to those recorded by the OGS, and presented in MRD 216. Most outcrops were found along the shoreline by canoe traverse. These consisted of linear bodies of fine- to medium-grained massive gabbro, fine-grained dacitic granite, porphyritic andesite and mafic rocks with well-preserved pillow structures. This was also the case with outcrops found on claim 4251382. Several outcrops of silicate facies iron formation were found, along with minor outcropping of chloritized ultramafic,

and a large linear outcropping of gabbro trending in a northwesterly direction, and a porphyritic andesite to dacite occurring as a topographic high of outcrop in the northeast corner of the claim. However, for the most part very little outcrop occurs within this claim generally occurring only along topographic highs.

Detailed rock descriptions at each station site can be found in Appendix 2.

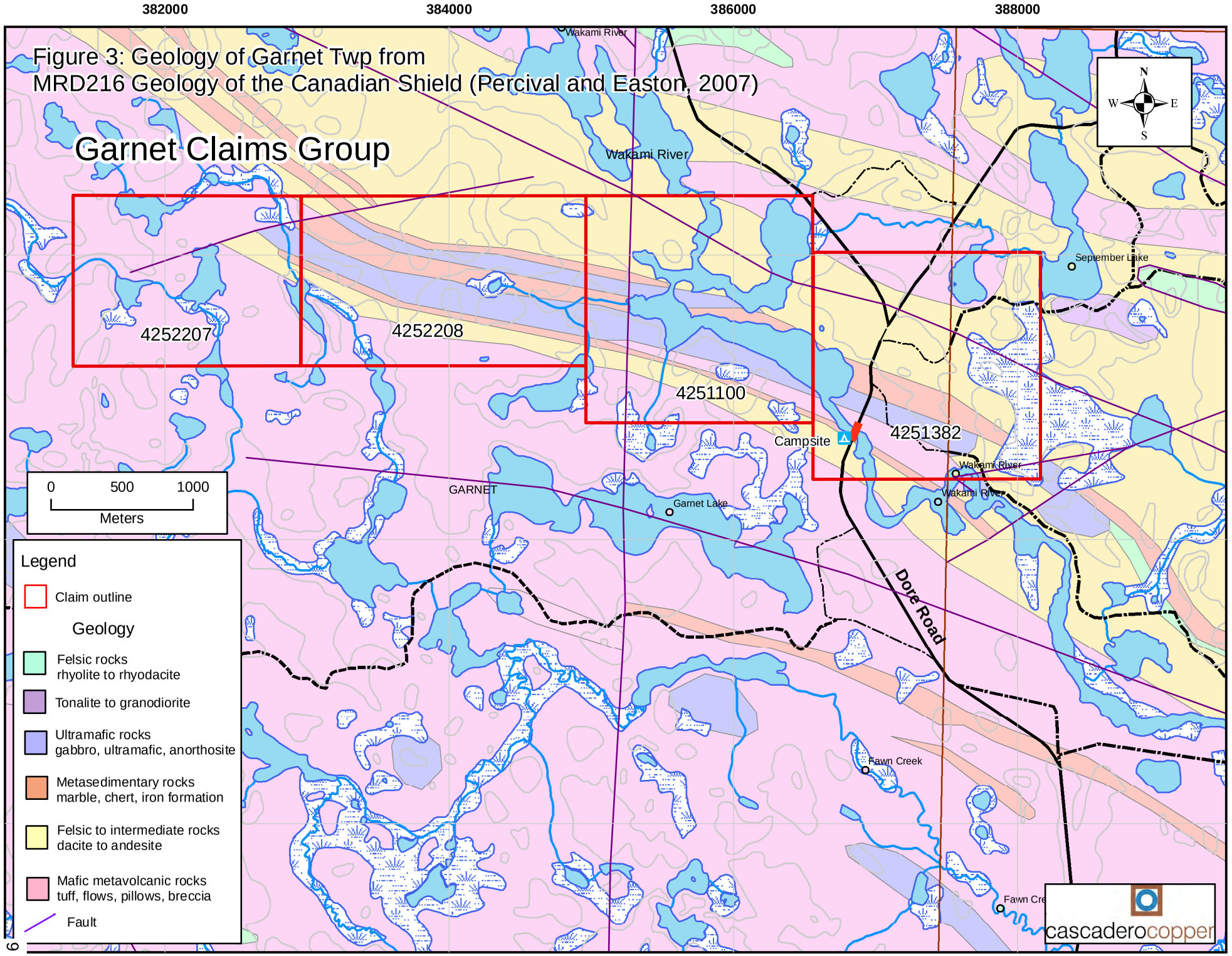


Figure 3: Geology of Garnet Twp from
MRD216 Geology of the Canadian Shield (Percival and Easton, 2007)
Garnet Claims Group
382000
384000
386000
388000
5288000
5286000
5284000
Wakami River
Wakami River
September Lake
4252207
4252208
4251100
4251382
Campsite
GARNET
Garnet Lake
Wakami River
Wakami River
Dore Road
Fawn Creek
Fawn Cre
N
W
E
S
0
500
1000
Meters
Legend
Claim outline
Geology
Felsic rocks
rhyolite to rhyodacite
Tonalite to granodiorite
Ultramafic rocks
gabbro, ultramafic, anorthosite
Metasedimentary rocks
marble, chert, iron formation
Felsic to intermediate rocks
dacite to andesite
Mafic metavolcanic rocks
tuff, flows, pillows, breccia
Fault
cascaderocopper

5. Previous Work

Past work performed on the Garnet claims is presented in Table 2 as found in previous assessment files (Appendix 2) as per Ontario's Ministry of Northern Development, Mines and Forestry website: http://www.mci.mndm.gov.on.ca/Claims/clm_mmen.cfm assessment files, and also listed under 6(B) of the *Assessment Work Performed on Mining Lands (Form0241E) under the Mining Act, Subsections 65(2) and 66(3), R.S.O. 1990, Ministry of Northern Development, Mines and Forestry*.

Table 2.

Year	AFRI Number	Work Performed by	Type of Work
1941	Not found	V.G. Meen	Geological mapping for Ontario Department of Mines
1966	41O09NW0092	Canadian Nickel Co. Limited	Diamond drilling
1966	41O09NW0093	Canadian Nickel Co. Limited	Diamond drilling
1966	41O09NW0094	Canadian Nickel Co. Limited	Diamond drilling
1977	Not found	G.M. Siragusa	Geological mapping for Ontario Geological survey
1984	Not found	Western Pacific Energy Corporation	Airborne geophysical survey
1985	Not found	Western Pacific Energy Corporation	Ground magnetometer, VLF, S.P. surveys
1986	41O09NW0081	Western Pacific Energy Corporation	Geological mapping and sampling
1986	41O09NW0083	Western Pacific Energy Corporation	Geological mapping and sampling
1986	41O09NW0084	Western Pacific Energy Corporation	Assay results and geological report
1986	41O09NW0086	Western Pacific Energy Corporation	Diamond drilling, assay results and geological report
1986	41O10NE9138	Western Pacific Energy Corporation	Diamond drilling, assay results and geological report
1993	41O09NW0041	Prospector Mr. F. Ross of Timmins	Prospecting, overburden stripping, geological sampling
1995	Not found	Prospector Mr. F. Ross of Timmins	Gridline cutting
1997	41O15SE0074	Prospector Mr. D. Lalonde	Prospecting, overburden stripping, geological sampling

6. 2011 Field Work

The following are daily reports of field activities including geological mapping, prospecting traverses, geological sampling for rock analysis by grab samples and rock saw channel sampling. Traverses were conducted by ATV along active and inactive logging roads, and by foot through very dense new growth (Figure 4).

The evaluation work was performed by professional geologist Mr. John Camier, M.Sc., P.Geo. (APEGM, APEGS, APEGGA, APGO), 937 3rd Street North, Brandon, Manitoba; assisted by prospector Mr. Phillip Allain of Sudbury, Ontario.

A total of 15 field days evaluation/preliminary exploration work by Cascadero Copper Corp. of Vancouver, B.C. was performed on the Garnet Twp claims in a camp set up by the Wakami River. All work was conducted by, and supervised by J. Camier, P.Geo, assisted by prospector Mr. Phillip Allain of Sudbury, Ontario. These included 2 mobilization travel days to the Garnet claims, 3 rain/office days; 9 field days traversing by foot and canoe; 1 demobilization day to Chapleau, Ontario.

All samples collected in the field were secured in 8 mil plastic sample bags sealed with flagging tape. At the end of each day, all samples were secured in white rice bags and sealed with zip-ties and tapped shut. The bags were stored in a locked aluminum box at the camp in a locked trailer until enough samples were collected and transported by Cascadero personnel to ALS Laboratory facilities in Sudbury for preparation and shipment to ALS Laboratories in Vancouver for processing and analysis.

The assay results were not available at time of writing and are pending. An amended assessment report detailing the assay results will be submitted when they are available. The amended report will supersede this report, which covers only the work done to date. This report is strictly for work and assessment credits, as the property is due on October 15, 2011.

6.1 August 26; Mobilization from Thunder Bay, Ontario; All Garnet claims.

Travel day to Watershed service station, Gogama, Ontario located at the corner of Hwy 144 and 506 to meet with Mr. J. Brady (Cascadero) and prospector Phillip Allain. Met at 5:30PM. Spent the night camped at the Watershed truck stop. Brady and Allain spent the night at Gilla Camp on the Sultan Industrial Road.

6.2 August 27; Mobilization to Garnet Twp from Hwy 144; All Garnet claims.

Mobilization to Garnet Twp claims from the Watershed. Camp was set up beside the Wakami River near the Dore Road and equipment prepared for first traverse on the next day.

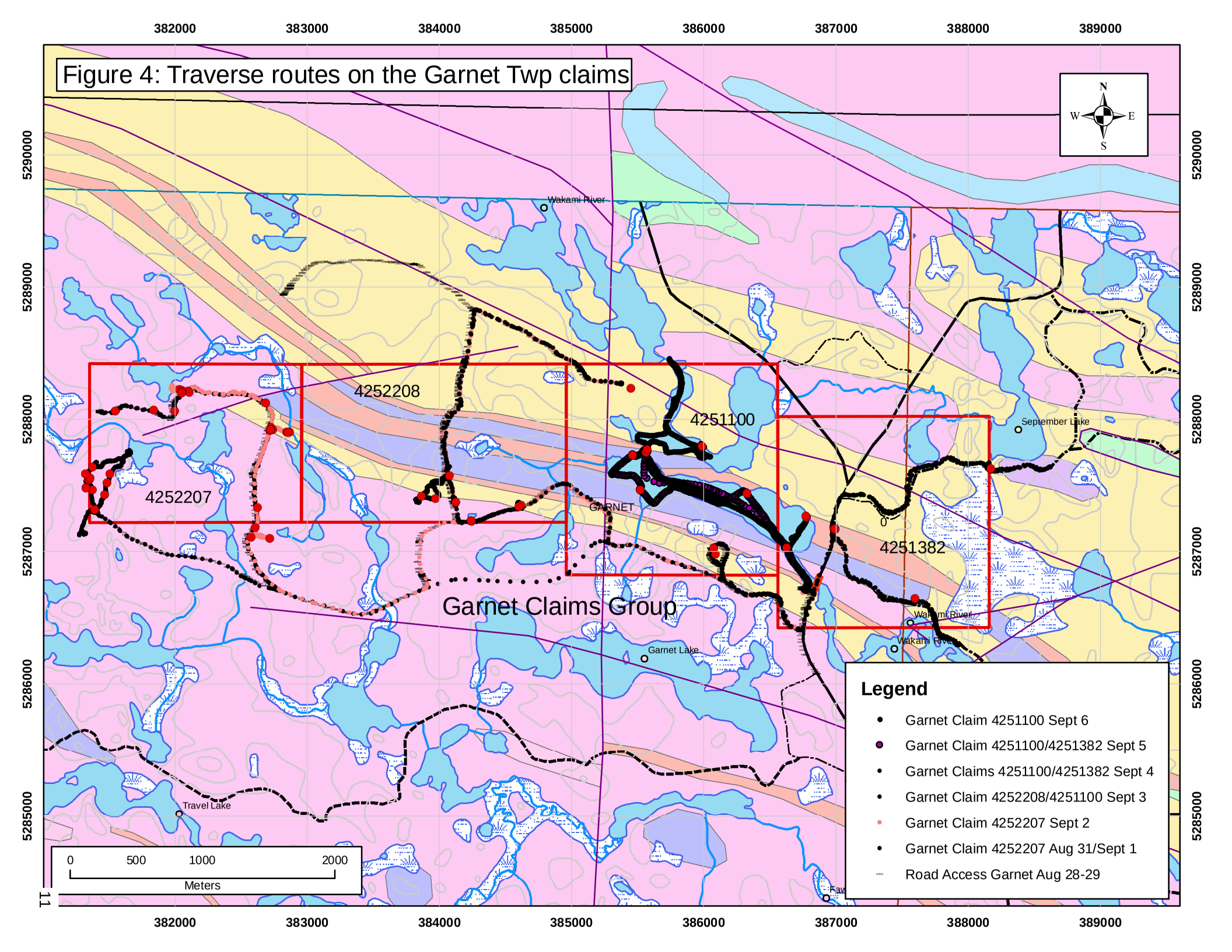


Figure 4: Traverse routes on the Garnet Twp claims
382000
383000
384000
385000
386000
387000
388000
389000
5290000
5289000
5288000
5287000
5286000
5285000
N
W
E
S
Wakami River
4252208
4251100
4252207
4251382
GARNET
September Lake
Garnet Claims Group
Garnet Lake
Travel Lake
0
500
1000
2000
Meters
Legend
Garnet Claim 4251100 Sept 6
Garnet Claim 4251100/4251382 Sept 5
Garnet Claims 4251100/4251382 Sept 4
Garnet Claim 4252208/4251100 Sept 3
Garnet Claim 4252207 Sept 2
Garnet Claim 4252207 Aug 31/Sept 1
Road Access Garnet Aug 28-29

6.3 August 28; Access and familiarization with area; All Garnet claims

Road access was found to be excellent; however, dense new of growth shrubs, alders, red pine and spruce made foot traversing extremely difficult. However, occasional open areas allowed us to observe some outcrops. Rocks encountered consisted of mafic metavolcanics rocks. No sulphides were observed. Occasional white quartz veins were observed but they were only up to 0.2cm in width. Several chlorite filled dilatational fractures occurred on one outcrop with minor intergrowths of carbonate, quartz and feldspar.

The area is relatively devoid of outcrop, with only about 3-5% exposure covered by thick glacial overburden. Traversing is extremely difficult, due to substantial cedar bog and swamp in low lying areas, thick overgrowth and forestry trash piles. This is complicated further with dense stretches of downed trees due to logging and blow down.

6.4 August 29; Access and familiarization with area; All Garnet claims

A second traverse attempt was made towards the west and south of the previous day. The going was impeded by the same thick forestry growth, forestry trash piles, cedar bog and swamp as the previous day. The thickness of the bush made the going slow. Outcrops consisted of mafic metavolcanics, which occasionally formed cliff-side exposes in cedar swamp close to small lakes, and an exposure of fine-grained to medium-grained gabbro found on a hillside covered beneath leafy overburden. No other outcrops were observed.

6.5 August 30; Rain/Office day; All Garnet claims

Heavy rain forced an office day.

6.6 August 31; Partial Field day and Rain/Office day; Claims 4252207 and 4252208.

Road accesses traverse and claim location plotting was attempted during the morning. Access to Claims 4252207 and 4252208 is by forestry access road and was determined to be excellent. This road access allowed both quad and foot traverses on the two claims. However, foot traversing through the clear cut areas was difficult due to 5 years of new growth creating very thick and dense brush with dangerous footing due to downfall of logs and forestry trash piles. Line cutting will have to be done prior to any MMI or enzyme leach soil sampling.

Heavy rainfall forced an end to the day’s work, which made a wet and miserably cold ride back to camp on the quad.

6.7 September 1; Claim 4252207.

A road traverse and several foot traverses on claim 4252207 was accomplished today, with the discovery of a silicified, carbonate and sericite altered sulphide bearing shear zone crosscutting mafic metavolcanic rocks.

Thirty-three stations were recorded and 6 samples (675202, 675203, 675204, 675205, 675206, and 675207) were collected from outcrop.

The rock exposures for the majority of the claim consists of well-preserved mafic metavolcanic pillows that exhibit moderate silicification and carbonate alteration on fresh surface, and on weathered surfaces exhibits moderate saussuritization, carbonate and minor sericite alteration. The metamorphic grade appears to be upper greenschist to lower amphibolite. The rock exhibits a dark greenish black to dark gray colouration and yields a white streak with a hardness of about 5-6 (MOHS).

In the westernmost section of the claim a wide (approximately 10-15 metres wide) gabbro dyke crosscuts the mafic volcanics. Very trace to trace pyrite and chalcopyrite occur along the contact with the mafic volcanics (Sx 675202). Strike and dip of the unit appears to be 276º/-90º. Alteration along the contact with the mafic volcanics is primarily sericite and carbonate, with minor flame-like textured zones of recrystallized white, subhedral plagioclase (albite-alteration) emanating from the contact into the mafics. The gabbro is massive, medium-grained exhibiting a gabbroic texture. Traversing within the dense overgrowth area yielded little more than mafic metavolcanic flows and pillows as previously described.

A traverse to the east along the second road accessing the claim yielded the same mafic metavolcanic units. However, a shear zone was discovered exposed along the road halfway through the traverse. This was observed to strike approximately 085º/-82ºS. A sample was collected of the shear (Sx 675203), which exhibited rusty patches, although no apparent sulphides were observed. All quartz veins were boudinaged, forming augens. Further examination of the unit along the roadside to the north exhibited subrounded and elongate heterolithic cobbles and fragments, suggestive of a debris flow within the volcanic pile. Strike of the shear appears to be curvilinear from 085º at the first outcrop, curving to 100º to 101º at all other exposures. Dip appears to be vertical (-90) in the majority of exposures of the shear.

In the westernmost exposure of the shear zone, a fine-grained amphibolite unit was observed that is strongly silicified, carbonate and sericite altered. This unit hosts finely disseminated sulphides of pyrite and chalcopyrite occurring as grains and aggregates hosted within the silicification at up to 1% locally (Sx 675205). A second outcropping of the sheared unit was discovered to the west of the first outcrop that exhibited 1-2% pyrite and trace chalcopyrite (± arsenopyrite). These sulphides occur within silicified amphibolite, and are disseminated along shear planes occurring as fine-grained aggregates within sections of very strong silicification (Sx 675206 and 675207).

6.8 September 02, 2011; Traverses continued on Claim 4252207

Foot traverses on claim 4252207 following the shear zone were completed today, until thunder storms forced a hasty retreat back to camp. A further 4 samples (Sx 675208, 675209, 675210, and 6752011) were collected from the shear zone. The shear extends across the claim from a small lake northwest of Garnet Lake, crosses the northern section of Garnet Lake and extends

eastward into low swampy ground on claim 4252208. The width of the shear appears to be approximately 200 meters, or more.

This structural zone is prospective and requires further investigations.

Due to dense vegetative overgrowth and logging debris, it is therefore suggested that any programs conducted on claim 4252207, start with the cutting of a 700 metre north-south by 1000 metre east-west grid, on 100 metre north-south centers in the northeast quadrant of the. The line-cutting should be followed by a program of IP/EM geophysics, followed by detailed geological/structural mapping and geochemical (MMI or enzyme-leach) sampling. Any further work would be dependent on the results of the geophysical and geochemical programs.

6.9 September 03; Traverses Claims 4252208 and 4251100

Two traverses were completed today. One traverse on claim 4252208 finished the claim investigation, and the examination of claim 4251100 was started.

Examination of claim 4252208 revealed extensive mafic metavolcanics including well preserved pillows and flows. Some of the metavolcanics exhibited hydrothermal alteration of moderate silicification and amphibole development along fracture planes. Some of the amphibole alteration may be ultramafic intrusive activity. The majority of the rocks are retrograde altered to chlorite. However, for the most part, the rock appears to have reached upper greenschist or lower amphibolite grade metamorphism. Sulphide mineralization was more prevalent in these rocks occurring as finely disseminated pyrite aggregates and blebs within the groundmass. Chalcopyrite was found associated with crosscutting quartz veins, along with trace amounts of galena. Four samples were collected from outcrop (Sx 675212, 675213, 675214, and 675215. Strong silicification, sericite and chlorite alteration occurs adjacent to the veining and along fractures. Most veins had a strike of 218°/-90°.

A traverse tracing the shear zone was also conducted. This traverse was not as successful due to the dense closely spaced new growth and logging debris, which made walking extremely difficult and dangerous. However enough evidence from what little outcrop observed suggests the shear is continuous through the southern section of claim 4252208, extending towards the east.

Continuing a crosscut of claim 4252208 led to the road access for the northwestern quadrant of claim 4251100. However, outcrops encountered appear to be primarily composed of lower amphibolite grade mafic metavolcanic rocks. One sample was collected (Sx 675216), which was found to contain trace pyrite and very trace chalcopyrite. The majority of claim 4251100 will be traversed by canoe as the majority of this claim is covered by the Wakami River system.

6.10 September 04; Final traverse on Claim 4251100 and start of traverses on Claim 4251382

A second traverse was attempted on Claim 4251100 along an old overgrown forestry road, which may have been the drill road put in by Western Pacific Energy Corporation. One possible drill pad was found. The rock in this lower southeastern portion of the claim appears to be chloritized fine-grained and massive andesite metavolcanics. Trace pyrite and chalcopyrite were observed on fresh surfaces as disseminated blebs and occasional aggregates. Two rock samples were collected from outcrop (Sx 675217 and 675218).

It was observed that a narrow fault/shear crosscuts the unit at 052°/-85°S with moderate carbonated and sericite alteration associated with the fractures. Calcite coats all fracture walls.

A road traverse of Claim 4251382 was attempted with emphasis placed on the Au showing indicated by MDI41O10NE00019. It was discovered that the showing was hosted in a silica facies iron formation crosscut by numerous narrow (0.1 to 0.8cm wide) quartz veins and by a parallel to bedding 6cm wide quartz vein hosting trace to 0.5% fine-grained pyrite and possible arsenopyrite (Sx 675219). Strike of the bedding within the iron formation was generally 298°/-78°N. However, the unit appears to have undergone some blocky fracturing and rotation readily apparent in some sections. Dip directions all appear to be towards the south.

The traverse on the southernmost road north of the river has extensive glacial overburden of sands and fine gravels, with the ground being fairly flat covered in mature forest. Only several rounded outcrops were discovered. These turned out to be a fine- to medium-grained gabbro; composed of 40-45% yellow-white to white subhedral plagioclase intermixed with subhedral chlorite altered pyroxene. Very trace pyrrhotite was observed within the groundmass. A road traverse and several foot traverses on the northernmost road that transects the property in a northeasterly direction, revealed only massive (no readily apparent foliation) porphyritic trachy-andesite composed of yellow-white to white subhedral plagioclase feldspar phenocrysts at 15-20% supported in an aphanitic to very fine-grained light greenish gray chlorite altered groundmass. No sulphides were observed in this rock.

6.11 September 05; Lakeshore Traverse Wakami River; Claims 4251100 and 4251382

Heavy rains, wind and fog prevented any traverses until after 1PM when the rain stopped and the wind died down. A lakeshore traverse was attempted on the Wakami River on Claims 4251100 and 4251382. The river, which forms wide sections that are lake-like, covers a majority of this claim.

Due to the late start, only the first lake section of the river was traversed. Outcroppings comprise about 5% of the shoreline, with thick swampy ground leading off the shore. Larger outcrops form rounded topographic highs and are comprised of alternating lithologies of fine-grained to medium-grained gabbro with weak to moderate chlorite alteration to groundmass; fine-grained massive dacite; and, an ultramafic in contact with a strongly magnetic silicate facies iron

formation. This iron formation outcrops on the eastern shoreline of the river, which is the site of the iron MDI41O10NE00018 showing. This iron formation also outcrops in a narrow channel in the western section of the river connecting two other wide lake-like sections. Here the iron formation is in contact with a chloritized andesite.

No sulphides were apparent in any of the outcrops of the traverse.

6.12 September 06; Completion of the Wakami River Traverse; Claim 4251100

Traverse of the northern sections of the Wakami River was completed today. The traverse to the northeastern section of the river was fond to form a wide shallow lake was stopped due to very shallow water, reeds and deep mud. The area is covered in low swampy ground and no outcrops were observed. The traverse continued along the river to the north and several low rounded outcrops of fine-grained massive gabbro was observed along the shore. A traverse inland resulted in nothing but thick cedar bog.

The traverse on the river continued to the claim line and we turned around just off the claim in a shallow boulder strewn rapid on the river and we headed back south. No outcrops were observed on higher topography inland from the shore, which seemed to be extensively covered in glacial overburden. The majority of the rock within this section of the river is shown to be alternating massive dacite and andesite. This was found to be correct. No sulphides were observed in any of the outcrops visited.

Two samples were collected, one at the MDI iron showing (Sx 675221), and a sample of ultramafic rock that exhibits intense chlorite and carbonate alteration (Sx 675220).

Although this section of the claims contains both the MDI Au and Fe showings, it appears the shear observed on claims 4252207 and 4252208, is continuous into 4251100. This observation of the Garnet claims is the most interesting, and appears to have never been recorded in the area of Claims 4252207 and 4252208. This shear zone and the nature of the tightly ptygmatic, isoclinal and crenulated folding within the shear, as well as the numerous quartz veins, may have significant Au potential.

6.13 September 07; Channel Sampling on Claims 4251100, 4251382 and 4252207 – Shear Zone

The day was spent traversing to and collecting channel samples for analysis. Twelve channel samples in total were collected from prospective sites within the sheared Iron-formation on claim 4251382 (Sx's 675222, 675223, 675224, and 675225) at the MDI Au-showing, and from the shear zone found on claim 4252207 (Sx's 675226, 675227, 675228, 675229, 675230, 675231, 675232, and 675233).

Four channel samples were cut in a north-south direction from outcrop on claim 4251382 to crosscut the Fe-formation perpendicular to the strike. The northern two samples (675222 - 5cm x 5cm x 30cm sample and 675223 - 5cm x 5cm x 30cm) were found to contain intrusive quartz

veining with associated sulphides (10-15% pyrite, trace chalcopyrite, and 2-3% arsenopyrite) following shear planes. These sulphides also coated vein walls and extended into the brecciated Fe-formation groundmass forming flame-like structures of finely massive aggregates with occasional blebs emanating from the quartz vein. The two southern channel samples (675224 5cm x 5cm x 30cm and 675225 5cm x 5cm x 30cm) were found to contain wormy quartz veinlets; however, very minor sulphides of pyrite were only found associated with these veinlets. These samples are composed primarily of Fe-formation consisting of very fine-grained magnetite supported in an interstitial quartz groundmass.

The northern section of the Fe-formation in contact with the metavolcanics contains the most sulphides associated with larger quartz veining. This is most probably the source of the MDI Au-showing and should be followed and studied further depending on assay results. A program of line-cutting followed by IP/EM/resistivity is suggested on this claim (4251100) to trace out the Fe-formation.

A traverse to claim 4252207 was then undertaken to channel sample selected areas of the shear zone. This shear extends under overburden disappearing towards claim 4252208. The shear in this region is covered in thick overburden.

Four channel samples were cut on the first outcrop of shearing discovered along the old forestry road extending in to the claim. These samples 675227 (6cm x 5cm x 30cm), 675228 (6cm x 5cm x 30cm), and 675229 (6cm x 5cm x 30cm) contained trace amounts finely disseminated fine-grained pyrite and very trace amounts of fine-grained chalcopyrite. Four other channel samples were collected from outcrop between Garnet Lake and another unnamed lake where the shear outcrops near the road. Sample 675230 (5cm x 6cm x 30cm) was collected from sheared metasedimentary rocks (metavolcanic) hosting crosscutting quartz veinlets containing trace pyrite and chalcopyrite (same area as samples 675206 and 675207). Sample 675231 (6cm x 5cm x 30cm) was collected in the same vicinity from sheared metasedimentary rocks hosting finely disseminated trace pyrite ± chalcopyrite. Channel samples 675232 (6cm x 5cm x 25cm) and 675233 (6cm x 5cm x 25cm) were collected from the same channel within intensely sheared (095°/-85°S) and Fe-stained mafic metavolcanic rocks that hosted finely disseminated, very fine-grained pyrite along shear planes associated with carbonate alteration.

6.14 September 08; Rain/Office day; All claims

The day was spent entering data and preparing for the de-mobilization to Chapleau for supplies and fuel.

6.15 September 09; De-mobilization to Chapleau; All claims

De-mobilization to Chapleau for fuel and supplies for next claims group investigation.

7. Recommendations and Conclusions

It is highly recommended that the claims be kept in good standing with the discovery of the previously unmapped shear zone. This shear exhibits ptygmatic and tight isoclinal folding, which makes it a good pressure shadow trap in which sulphides, and possibly gold could have precipitated during fluid transport along this structural corridor. Similar structures (i.e. Thunder Creek Rusk Zone in Timmins) have been known to be conducive for gold exploration and contain significant mineralization. Based on this alone, the area is prospective. The shear has been partially followed along surface during the course of the preliminary work, but requires further investigations. Gold mineralization was recorded from previous work occurring in claims 4252208, 4251100 and 4251382 (MDI41O10NE00019), which appears to be along strike of the shear. Previous work by Western Pacific Energy indicates base metal and gold mineralization in some of the assay results from the drilling they conducted west of the Wakami River area (claims 4252208 and 4251100) (see assessment file: 41O09NW0086; Appendix 2).

It has been demonstrated by previous work that minor base metal and gold mineralization occurs within the area and on the property. It is therefore recommended that a program of line-cutting followed by IP and resistivity geophysics take place as soon as is feasible. This program would highlight areas for further work. The geophysical investigation should then be followed by a program of soil sampling by either enzyme leach or MMI (Mobile Metal Ion) methods. These geochemical investigations would further narrow the area for more intensified exploration programs.

8. Costs Claimed for Assessment

Table 3 is a complete breakdown of work costs for the 2011 evaluation of the Garnet Property in Garnet Twp. A Summary table is presented in Table 4; Section A lists costs per claim, Section B lists costs pertaining to all claims and Section C is the total cost of the work.

Table 3. Breakdown of costs for Garnet Twp claims work.

Travel to Ontario	All Claims	
August 25-26	To	Costs $CDN
Travel Manitoba border to Hwy 144 ($0.40/km)	1400 km	$560.00
Camp/Accommodations		$1,020.00
	Travel Costs to Garnet Claims:	$1,580.00

Work Performed

27-Aug	Mobilization to Garnet Twp from Hwy 144		
Claim Number:		All claims	
Kilometers (Truck 4x4)	$38.00	95Km	x $ 0.40/km
Consulting geologist	$500.00		
Prospector	$250.00		
Camp/Accommodations	$510.00	per day	rental
ATV	$125.00	per day	rental
Samples			x $ 44.30/sample
Total work:	$1,423.00		

28-Aug			
Claim Number:		All claims	
Kilometers (Truck 4x4)			x $ 0.40/km
Consulting geologist	$500.00		
Prospector	$250.00		
Camp/Accommodations	$510.00		rental
ATV	$125.00		rental
Samples		1	x $ 44.30/sample
Total Work:	$1,385.00		

29-Aug			
Claim Number:		All claims	
Kilometers (Truck 4x4)			x $ 0.40/km
Consulting geologist	$500.00		
Prospector	$250.00		
Camp/Accommodations	$510.00		rental
ATV	$125.00		rental
Samples			x $ 44.30/sample
Total Work:	$1,385.00		

30-Aug			
Claim Number:		All claims	
Kilometers (Truck 4x4)			x $ 0.40/km
Consulting geologist	$500.00		
Prospector	$250.00		
Camp/Accommodations	$510.00		rental
ATV	$125.00		rental
Samples			x $ 44.30/sample
Total Work:	$1,385.00		

31-Aug			
Claim Number:		4252207 and 4252208	
Kilometers (Truck 4x4)			x $ 0.40/km
Consulting geologist	$500.00		
Prospector	$250.00		
Camp/Accommodations	$510.00		rental
ATV	$125.00		rental
Samples			x $ 44.30/sample le
Total Work:	$1,385.00		

1-Sep			
Claim Number:		4252207	
Kilometers (Truck 4x4)			x $ 0.40/km
Consulting geologist	$500.00		
Prospector	$250.00		
Camp/Accommodations	$510.00		rental
ATV	$125.00		rental
Samples		6	x $ 44.30/sample
Total Work:	$1,385.00		

2-Sep			
Claim Number:		4252207	
Kilometers (Truck 4x4)			x $ 0.40/km
Consulting geologist	$500.00		
Prospector	$250.00		
Camp/Accommodations	$510.00		rental
ATV	$125.00		rental
Samples		4	x $ 44.30/sample
Total Work:	$1,385.00		

3-Sep			
Claim Number:		4252208 and 4251100	
Kilometers (Truck 4x4)			x $ 0.40/km
Consulting geologist	$500.00		
Prospector	$250.00		
Camp/Accommodations	$510.00		rental
ATV	$125.00		rental
Samples		5	x $ 44.30/sample
Total Work:	$1,385.00		

4-Sep			
Claim Number:		4251100 and 4251382	
Kilometers (Truck 4x4)			x $ 0.40/km
Consulting geologist	$500.00		
Prospector	$250.00		
Camp/Accommodations	$510.00		rental
ATV	$125.00		rental
Samples		3	x $ 44.30/sample
Total Work:	$1,385.00		

5-Sep			
Claim Number:		4251100 and 4251382	
Kilometers (Truck 4x4)			x $ 0.40/km
Consulting geologist	$500.00		
Prospector	$250.00		
Camp/Accommodations	$510.00		rental
ATV	$125.00		rental
Samples			x $ 44.30/sample
Total Work:	$1,385.00		

6-Sep			
Claim Number:		4251100	
Kilometers (Truck 4x4)			x $ 0.40/km
Consulting geologist	$500.00		
Prospector	$250.00		
Camp/Accommodations	$510.00		rental
ATV	$125.00		rental
Samples		2	x $ 44.30/sample
Total Work:	$1,385.00		

7-Sep			
Claim Number:		4251100, 4251382 and 4252207	
Kilometers (Truck 4x4)			x $ 0.40/km
Consulting geologist	$ 500.00		
Prospector	$ 250.00		
Camp/Accommodations	$ 510.00		rental
ATV	$ 125.00		rental
Samples		12	x $ 44.30/sample
Total Work:	$ 1,385.00		

8-Sep			
Claim Number:		All claims	
Kilometers (Truck 4x4)			x $0.40/km
Consulting geologist	$ 500.00		
Prospector	$ 250.00		
Camp/Accommodations	$ 510.00		rental
ATV	$ 125.00		rental
Samples			x $ 44.30/sample
Total Work:	$ 1,385.00		

9-Sep			
Claim Number:		All Claims Mob to Chapleau via Hwy 144	
Kilometers (Truck 4x4)	$ 133.60	334	x $ 0.40/km
Consulting geologist	$ 500.00		
Prospector	$ 250.00		
Camp/Accommodations	$ 510.00		rental
ATV	$ 125.00		rental
Samples			x $ 44.30/sample
Total Work:	$ 1,518.60		

Total work costs:	$ 19,561.61
Travel from Manitoba-Ontario border:	$ 1,580.00
Field Supplies:	$ 1,650.00
Report 5 days x 500.00/day	$ 2,500.00
Total Costs Garnet:	$ 25,291.61

Table 4. Summary of Garnet Twp claims costs.

A.

Garnet Twp Property	Costs per claim:
4252207	$ 3,924.17
4252208	$ 1,385.00
4251100	$ 3,924.17
4251382	$ 1,846.67
{Subtotal for claims:	$ 11,080.01}

B.

All Claims	
Field work	$ 11,711.60
Reports	$ 2,500.00
Subtotal for all claims:	$ 14,211.60
{divided by 4 claims =	$ 3,552.90}

C.

Total cost for work in 2011 on Garnet Twp claims:	$ 25,291.61

Costs included rentals of complete 2-man camp, ATV and trailer, all field equipment, channel saw and blade, all fuel, safety equipment and field supplies rented from Camier Geological Services of Brandon, Manitoba. Costs do not reflect assay costs, which are pending at time of writing. An amended report will be submitted, which will supersede this report when assay results and costs are received by the author.

10. References

Ontario's Ministry of Northern Development, Mines and Forestry website (http://www.mci.mndm.gov.on.ca/Claims/clm_mmen.cfm) assessment files.

Percival, J.A and Easton, R.M. 2007: GEOLOGY OF THE CANADIAN SHIELD IN ONTARIO: AN UPDATE; Geological Survey of Canada, Open File 5511, Ontario Geological Survey, Miscellaneous Release--Data 216, Ontario Power Generation, Report Number 06819-REP-01200-10158-R00. Scale 1: 1 000 000. 1 CD-ROM.

Certificate of Author

I, Wm. J. Camier, M.Sc., P.Geo, of 937 3rd Street North, Brandon, Manitoba, R7A 2M5, do hereby certify that as the author of *"Assessment Report of the 2011 Evaluation Work on the Garnet Claims, Garnet Twp., Porcupine District, Ontario NTS 041O09 and 041O10, Cascadero Copper Corp. Vancouver, B.C."*, Technical Report prepared for, and on behalf of Cascadero Copper Corp., dated October 7th, 2011, do hereby make the following statements:

1) That I am an independent geological consultant to:

   Cascadero Copper Corp.
   301-260 West Esplanade
   North Vancouver, B.C.
   V7M 3G7

2) That I am the sole proprietor of J. Camier Geological Services, providing independent consulting services outside the Province of Manitoba; and, that I am President and CEO of South Bay Exploration Ltd., a Manitoba based geological services and consulting firm.

3) That I have graduated with a Bachelor of Science, Specialist Degree in Geology (1996) from Brandon University, Brandon, Manitoba. In addition, that I have obtained a Master of Science in Economic Geology from the University of Western Ontario (2002), London, Ontario.

4) That I am a member in good standing of the Association of Professional Engineers and Geoscientist of Manitoba (APEGM), member number 21844.

5) That I am a member in good standing to the Association of Professional Engineers and Geoscientists of Saskatchewan (APEGS), member license number 14783.

6) That I am a member in good standing of the Association of Professional Engineers, Geologist and Geophysicists of Alberta (APEGGA) member number 95412.

7) That I am a member in good standing of the Association of Professional Geoscientists of Ontario (APGO), membership number 1722.

8) That I have worked as a geologist for a total of 15 years since my graduation from University in 1996, and in the geological and mining field since 1989.

9) That I have read National Instrument 43-101 (NI 43-101) and certify that by reason of my education, affiliation with four professional associations (as defined in NI 43-101) and past relevant work experience that I was qualified to write this report.

10) That I am responsible for all aspects of the 2011 geological field investigations conducted on the Garnet Twp. Claims for the benefit of Cascadero Copper Corp., and was under contract to them to conduct the work.

11) That I visited the Garnet Property between August 26, 2011 and September 9, 2011.

12) That I am responsible for the preparation and writing of this technical report titled: *"Assessment Report of the 2011 Evaluation Work on the Garnet Claims, Garnet Twp., Porcupine District, Ontario NTS 041O09 and 041O10 Cascadero Copper Corp. Vancouver, B.C."* and dated October 7th, 2011.

13) That I am independent of the issuer applying all of the tests in section 1.5 of NI 43-101.

14) That I am a consultant to Cascadero Corp., reporting to Mr. Bill McWilliam, President, CEO and Director of Cascadero Copper Corp.

15) That I have read National Instrument 43-101 and Form 43-101F.

16) That I consent to the filing of this Technical Report with any stock exchange and other regulatory authority by Cascadero Copper Corp. for regulatory purposes, including electronic publication in the public company files on their websites accessible by the public, of this Technical Report.

17) I also certify that I have prepared this Technical Report and have read the written disclosure being filed and do not have any reason to believe that there are any misrepresentations in the information contained within this Technical Report.

Dated this 7th Day of October, 2011.

Signature of Author

John Camier, M.Sc., P.Geo. (APEGM, APEGS, APEGGA, APGO)

Name of Author

Author's Professional Stamp

(APGO)

Appendix 1

Historical Work

(http://www.mci.mndm.gov.on.ca/Claims/clm_mmen.cfm assessment files)

PROPERTY AND LOCATION

THE PROPERTY CONSIST OF ONE UNPATENTED MINING CLAIM P1190380 (16 UNITS) AND IS SITUATED IN THE NORTH-EAST QUADRANT OF GARNET TOWNSHIP.

ACCESSIBILITY

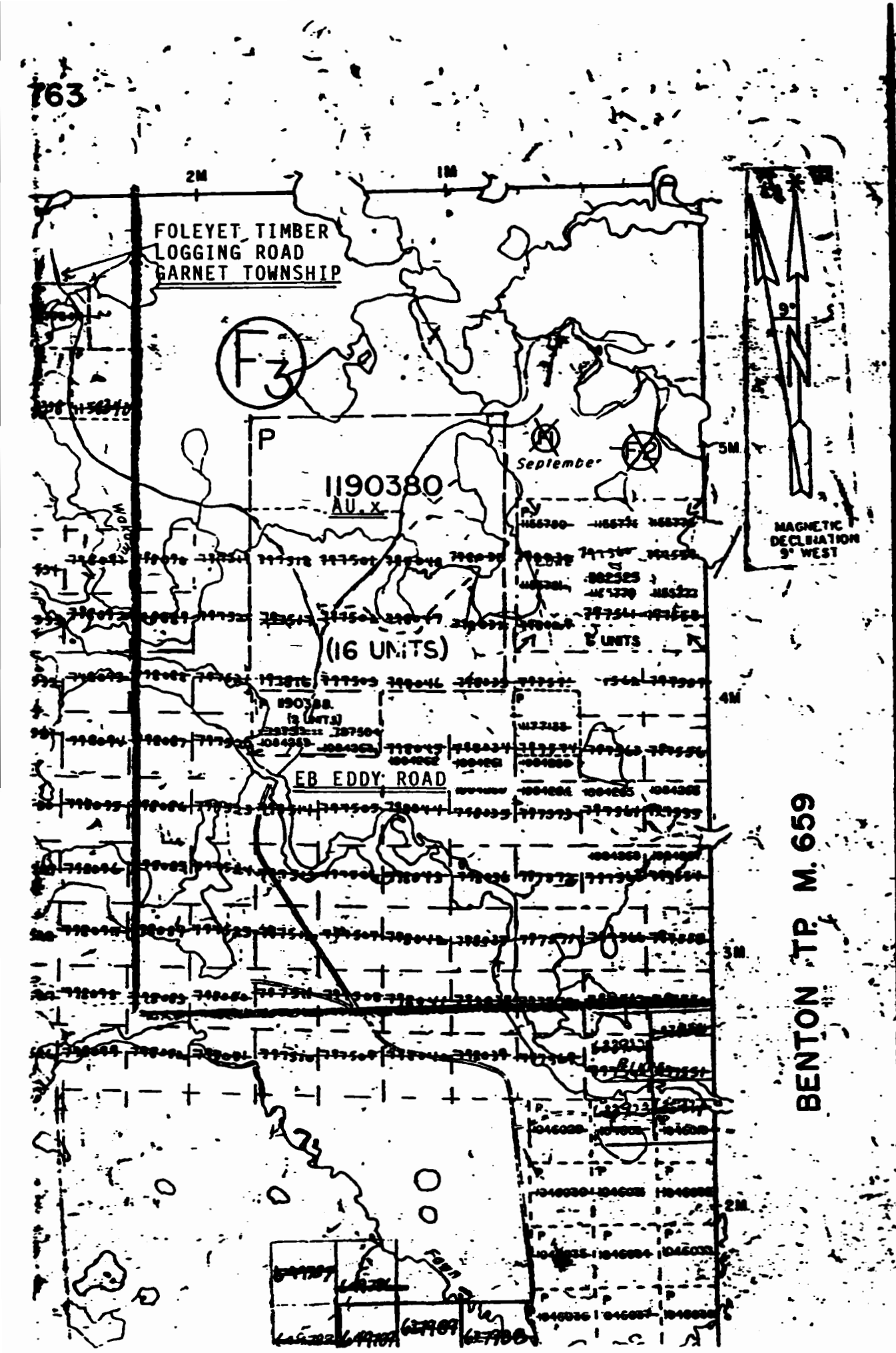
VEHICULAR ACCESS TO MINING CLAIM P1190380 IS READILY GAINED FROM TIMMINS, ONTARIO VIA HIGHWAY 101 TO THE INTERSECTION OF THE FOLEYET TIMBER LOGGING ROAD IN MUSKEGO TOWNSHIP APPROX. 10 KILOMETERS EAST OF THE TOWN OF FOLEYET.

YOU THEN TRAVEL SOUTH ON A GRAVEL LOGGING ROAD THROUGH MUSKEGO, KEITH, SILK,WHIGHAM,COPPELL,DORE AND INTO GARNET TOWNSHIP. APPROX.4 KILOMETERS SOUTH-EAST OF THE NORTH BOUNDRY OF GARNET TOWNSHIP YOU WILL INTERSECT THE MAIN E.B.EDDY LOGGING ROAD. AT THIS POINT YOU TURN LEFT AND TRAVEL APPROX. 1 KILOMETER AND ON THE WEST SIDE OF THE ROAD YOU WILL SEE A LARGE GRAVEL PIT,ENTER THE GRAVEL AND THIS WILL PUT YOU AT OUR GOLD SHOWING AS INDICATED ON THE ATTACHED MAP.

DISTANCE FROM TIMMINS VIA HIGHWAY 101 TO FOLEYET TIMBER LOGGING ROAD IS APPROX. 95 KILOMETERS.
DISTANCE FROM INTERSECTION OF HIGHWAY 101 AND FOLEYET TIMBER LOGGING ROAD TO OUR GOLD SHOWING IN GARNET TOWNSHIP IS APPROX. 75 KILOMETERS,RETURN TRIP IS APPROX. 340 KILOMETERS.

GEOLOGY

MAFIC TO INTERMEDIATE METAVOLCANICS,WITH SHEARING AND PORPHYRITIC FLOWS.


163
2M
1M
FOLEYET TIMBER
LOGGING ROAD
GARNET TOWNSHIP
F3
P
September
1190380
AU. x
(16 UNITS)
EB EDDY ROAD
5M
4M
3M
2M
MAGNETIC
DECLINATION
9° WEST
BENTON TP. M. 659
HIGHWAY AND ROL
OTHER ROADS
TRAILS
SURVEYED LINES:
TOWNSHIPS, BA
LOTS, MINING CL
UNSURVEYED LINE
LOT LINES
PARCEL BOUND
MINING CLAIMS
RAILWAY AND RIG
UTILITY LINES
NON-PERENNIAL S
FLOODING OR FLC
SUBDIVISION
ORIGINAL SHOREL
MARSH OR MUSKE
MINES
C.D.I. - File
DISPOSI
TYPE OF DOCUME
PATENT. SURFACE
SURFACE
MINING F
LEASE. SURFACE
SURFACE
MINING F
LICENCE OF OCC
CROWN LAND SA
ORDER-IN-COUNC
RESERVATION
CANCELLED
SAND & GRAVEL
SCALE: 1 IN
FEET
METRES

Group Sketch of claims listed on Part A.
Sketch or plan of the mining claim(s) must show the corner posts, witness posts, and line posts and the distances between the posts in metres.

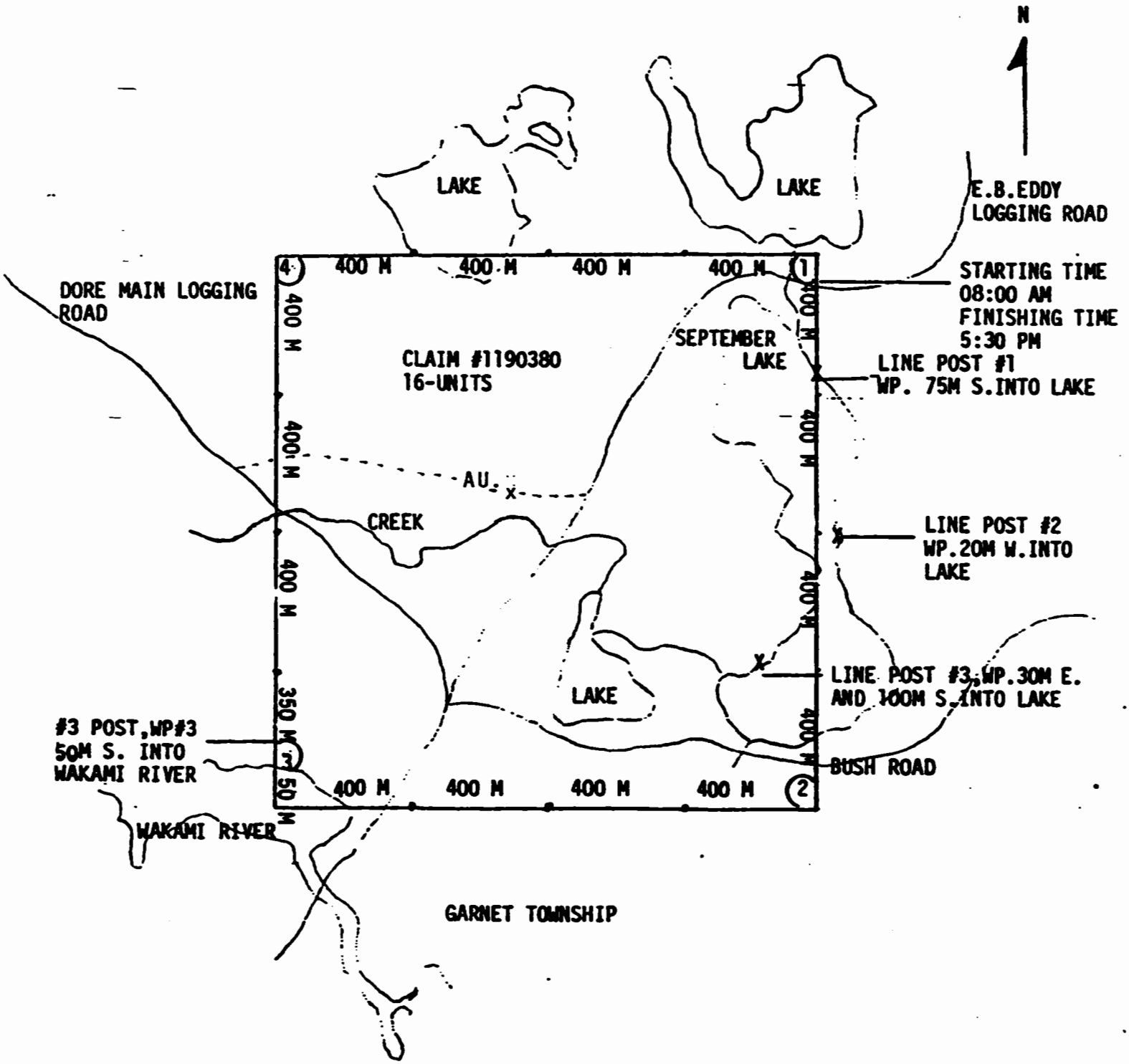
Include topographic features such as lakes, rivers, creeks, ponds, etc. and developments such as hydro lines, highways, railways, pipelines, buildings, etc.

Refer to sample sketch on Part C.

Scale:

400 METERS = 1 INCH

9° WEST OF NO.



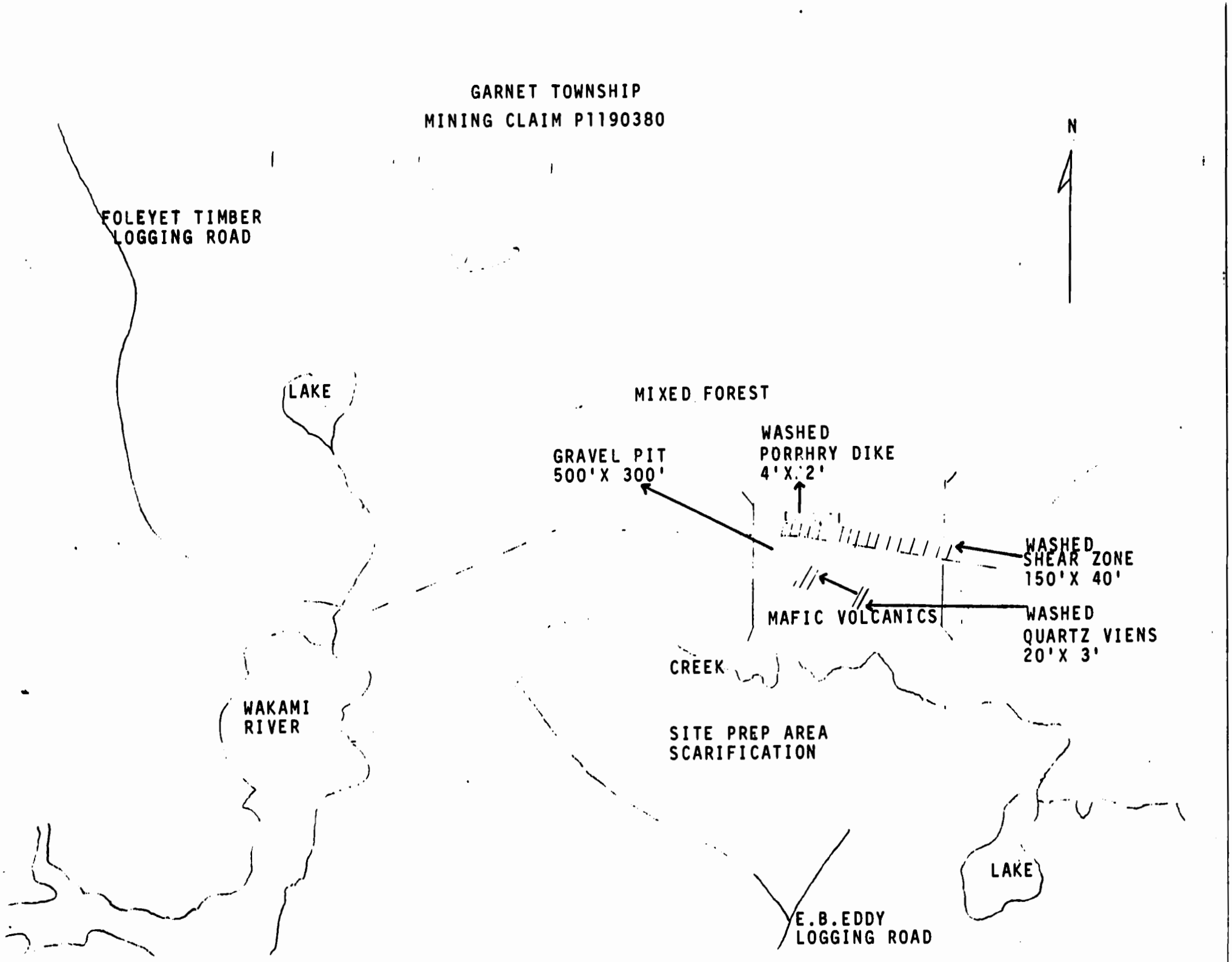
MINING CLAIM P1190380
GARNET TOWNSHIP

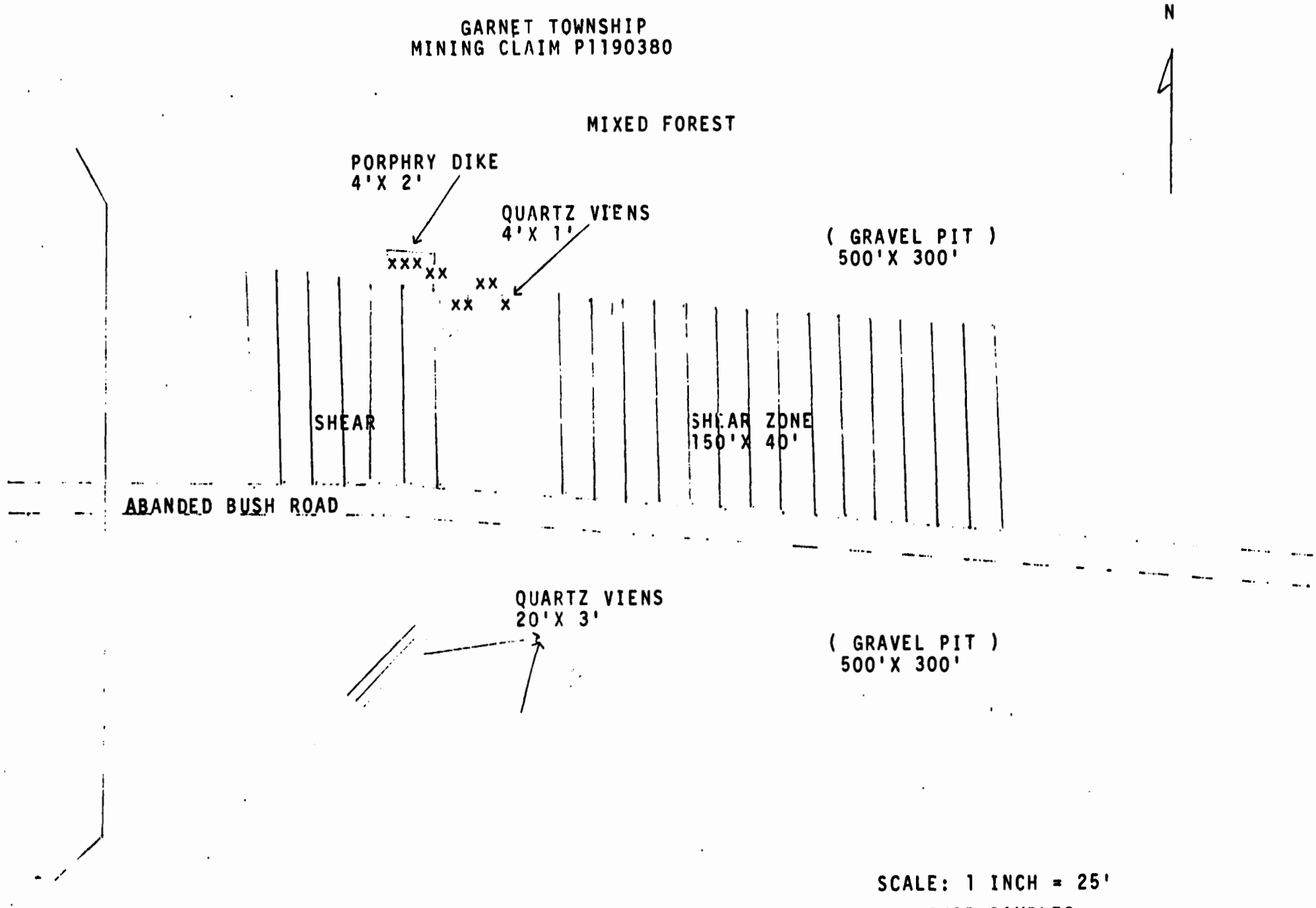
WORK REPORT TO DATE.

WHILE PROSPECTING IN GARNET TOWNSHIP IN THE MID SUMMER OF 1994 A QUARTZ CARBONATE SHEAR ZONE WAS FOUND IN AN OLD E.B.EDDY GRAVEL PIT.
BITS OF THE SHEAR WAS EXPOSED AT THE TIME OF DISCOVERY. MY PARTNERS AND I SPENT FOUR DAYS ON THIS NOW PARTIAL EXPOSED AREA WASHING AND TRENCHING THE SHEAR ZONE WITH A HIGH PRESSURE MK3 PRESSURE PUMP.TO EXPOSE MORE OUT-CROP.
THE SHEAR WAS TRACED FOR ONE HUNDERED AND FIFTY FT.
NUMEROUS QUARTZ VIENS WERE ALSO UNCOVERED.
THESE QUARTZ VIENS WERE UP TO 20 FT.IN LENGTH AND UP TO 3 FT. IN WIDTH.
A ALTERED PHORPHY DIKE WAS ALSO EXPOSED FOR A LENGTH OF 4 FT. AND APPROX.2 FT.IN WIDTH,THIS DIKE IS MINERA-LIZED WITH FINE PYRITE,HIGH ANOMOLOUS AU. VALUES WERE OBTAINED IN SAMPLYNG THE DIKE.
THE SHEAR IS HIGHLY CARBONATED AND DEFORMED.
A PROGRAM OF MORE WASHING AND TRENCHING FOLLOWED UP WITH PLUGGER DRILLING,BLASTING AND SAMPLING IS RECOMENDED.
THIS ZONE STRIKES EAST WEST AND REPRESENTS A MAJOR STRUCTURE.
DUE TO THE OVER BURDEN THE TRUE WIDTH OF THE SHEAR IS UNKNOWN,THE KNOWN WIDTH IS APPROX. 40 FT. BEFORE IT GOES INTO OVER BURDEN TO THE NORTH AND SOUTH.

TO THE SOUTH OF THE SHOWING APPROX.400 METRES A LARGE AREA HAS BEEN SITE PREP FOR REFORESTATION,TWO DAYS OF PROSPECTING WAS CARRIED OUT THROUGH OUT THIS AREA AND VERY LITTLE OUTCROP WAS OBSERVED.

SEE ATTACHED SKETCH FOR MORE DETAIL.


GARNET TOWNSHIP
MINING CLAIM P1190380
N
FOLEYET TIMBER
LOGGING ROAD
LAKE
MIXED FOREST
WASHED
PORRHRY DIKE
4'X 2'
GRAVEL PIT
500'X 300'
WASHED
SHEAR ZONE
150'X 40'
MAFIC VOLCANICS
WASHED
QUARTZ VIENS
20'X 3'
CREEK
WAKAMI
RIVER
SITE PREP AREA
SCARIFICATION
LAKE
E.B.EDDY
LOGGING ROAD


GARNET TOWNSHIP
MINING CLAIM P1190380
N
MIXED FOREST
PORPHRY DIKE
4'X 2'
QUARTZ VIENS
4'X 1'
(GRAVEL PIT)
500'X 300'
SHEAR
SHEAR ZONE
150'X 40'
ABANDED BUSH ROAD
QUARTZ VIENS
20'X 3'
(GRAVEL PIT)
500'X 300'
SCALE: 1 INCH = 25'
X = CHIP SAMPLES
CREEK - WATER SUPPLY

WAWA ASSAYING INC.
P.O. Box 1998 - Wawa, Ontario P0S 1K0 - 705-856-4443
127 Mission Road Fax - 705-856-2902

CERTIFICATE OF ANALYSIS

CLIENT: Mr. Fred Ross **DATE:** August 13, 1993

PROJECT: **REF:** 930813

TYPE OF ANALYSIS: fire assay, AA finish

SAMPLE No.	Au ppb	Ag ppm
3113	9030	
3114	185	
3115	25	
H-1	20	4.2
H-2	63	3.9
H-3	424	4.2
H-4	132	1.9
H-5	6860	2.0

Certified By: [signature]

WAWA ASSAYING INC.
P.O. BOX 1998, 127 MISSION ROAD
WAWA, ONTARIO P0S 1K0
(705) 856-4443 FAX (705) 856-2902

INVOICE

NO: 03346

DATE: 08-30-93

PAGE: 1 of 1

SOLD TO:
Ross, Mr. Fred
958 Park Avenue
Timmins, Ontario
P4N 7K6

SHIP TO:

ITEM NO	QUANTITY	UNIT	DESCRIPTION	F	P	UNIT PRICE	AMOUNT
	8		Gold Analyses, AA Finish			8.500	68.00
	5		Silver Analyses			2.000	10.00
	8		Sample Preparation			3.000	24.00
			Goods And Services Tax				7.14

COMMENTS:
GST# R105596860 Thank you for your patronage!

TOTAL ▶ 109.14

WAWA ASSAYING INC.
P.O. BOX 1988, 127 MISSION ROAD
WAWA, ONTARIO P0S 1K0
(705) 856-4443 FAX (705) 856-2902

INVOICE

NO: 03393

DATE: 09-17-94

PAGE: 1 of 1

SOLD TO:
Ross, Mr. Fred
958 Park Avenue
Timmins, Ontario
P4N 7K6

SHIP TO:

ITEM NO	QUANTITY	UNIT	DESCRIPTION	F	P	UNIT PRICE	AMOUNT
	2		Gold Analyses, Fire Assay			8.500	17.00
	1		Sample Preparation			2.000	2.00
			Goods And Services Tax				1.33
COMMENTS: GST# R105596860			Thank you for your patronage!			TOTAL	20.33

WORK CONDUCTED ON MINING
CLAIM P1190380

FOUR MEN 4 DAYS WASHING AND HAND TRENCHING SHEAR ZONE.	
4 X 4 = 16 MAN DAYS.	
16 MAN DAYS AT $150.00/MAN DAY =	$2,400.00
ONE MK 3, HIGH PRESSURE POWER PUMP,	
TEN 100'LENGTHS OF SURFIRE HOSE.	
20 GALLONS MIXED PUMP GAS.	
$150.00/DAY X 4 DAYS =	$600.00
THREE MEN 2 DAYS PROSPECTING SITE PREP AREA.	
6 MAN DAYS AT $150.00/MAN DAY =	$900.00
USED TWO PERSONAL VEHICLES.	
6 TRIPS FROM TIMMINS TO WORK SITE.	
340 KILOMETERS RETURN TRIP AT .30¢/KILOMETER.	
6 X 340 = 2040 KILOMETERS X .30¢/KILOMETER =	$612.00
4 TRIPS FROM FOLEYET TO WORK SITE.	
170 KILOMETERS RETURN TRIP AT .30¢/KILOMETER.	
4 X 170 = 680 KILOMETERS X .30¢/KILOMETER =	$204.00
MEALS - FOOD FOR 4 MEN FOR 6 DAYS AT $50.00/DAY.	
6 X $50.00/DAY =	$300.00
10 CHIP SAMPLES (ASSAYS)	$129.47
TOTAL EXPENDITURES TO DATE =	$5,145.47

FREDERICK J. ROSS _____

GEORGE ROSS _____

Ministry of Northern Development and Mines
Ontario

Report of Work Conducted After Recording Claim

Mining Act

Transaction Number: W9560.00101

Personal information collected on this form is obtained under the authority of the Mi
this collection should be directed to the Provincial Manager, Mining Lands, Mini
Sudbury, Ontario, P3E 6A5, telephone (705) 670-7264.

41O09NW0041 W9560-00101 GARNET

900

Instructions:
- Please type or print and submit in duplicate.
- Refer to the Mining Act and Regulations for requirements of filing assessment work or consult the Mining Recorder.
- A separate copy of this form must be completed for each Work Group.
- Technical reports and maps must accompany this form in duplicate.
- A sketch, showing the claims the work is assigned to, must accompany this form.

Recorded Holder(s): FREDERICK J. ROSS		Client No.: 189352
Address: 958 PARK AVE. TIMMINS, ONTARIO P4N 7K6		Telephone No.: 705-267-6796
Mining Division: PORCUPINE	Township/Area: GARNET TOENSHIP	M or G Plan No.:
Dates Work Performed — From: JULY 24, 1993	To: AUGUST 15, 1993	

Work Performed (Check One Work Group Only)

	Work Group	Type
	Geotechnical Survey	
	Physical Work, Including Drilling	STRIPPING-WASHING WITH PRESSURE PUMP,HAND TRENCHING,SAMPLING
	Rehabilitation	
	Other Authorized Work	
	Assays	10, ASSAYS
	Assignment from Reserve	

RECORDED
MAR 2 1995
Receipt _____

Total Assessment Work Claimed on the Attached Statement of Costs $ 4,836.00

Note: The Minister may reject for assessment work credit all or part of the assessment work submitted if the recorded holder cannot verify expenditures claimed in the statement of costs within 30 days of a request for verification.

Persons and Survey Company Who Performed the Work (Give Name and Address of Author of Report)

Name	Address
FREDERICK ROSS	ALL - C/O FREDERICK J. ROSS
GEORGE ROSS	958 PARK AVE.
JASON ROSS	TIMMINS, ONTARIO
	P4N 7K6

(attach a schedule if necessary)

Certification of Beneficial Interest * See Note No. 1 on reverse side

I certify that at the time the work was performed, the claims covered in this work report were recorded in the current holder's name or held under a beneficial interest by the current recorded holder.	Date: MARCH 3/95	Recorded Holder or Agent (Signature): F Ross

Certification of Work Report

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

Name and Address of Person Certifying: FREDERICK J. ROSS, 958 PARK AVE. TIMMINS, ONTARIO P4N 7K6

Telepone No.	Date	Certified By (Signature)
705-267-6796	MARCH 3/95	F Ross

For Office Use Only

Total Value Cr. Recorded	Date Recorded	Mining Recorder	Recorded Holder
4836.	Mar 2/95		
	Deemed Approval Date: MAY 31, 1995	Date Approved: May 31/95	
	Date Notice for Amendments Sent		

RECEIVED
MAR 2 1995
10:10
PORCUPINE MINING DIVISION

0241 (03/91)

0241 (03/91)

Work Report Number for Applying Reserve	Claim Number (see Note 2)	Number of Claim Units	Value of Assessment Work Done on this Claim	Value Applied to this Claim	Value Assigned from this Claim	Reserve: Work to be Claimed at a Future Date
	P1190380	16	$4,836.00	$4,836.00		
	Total Number of Claims: 1		Total Value Work Done: $4,836.00	Total Value Work Applied: $4,836.00	Total Assigned From:	Total Reserve:

Credits you are claiming in this report may be cut back. In order to minimize the adverse effects of such deletions, please indicate from which claims you wish to priorize the deletion of credits. Please mark (✓) one of the following:

1. ☐ Credits are to be cut back starting with the claim listed last, working backwards.
2. ☐ Credits are to be cut back equally over all claims contained in this report of work.
3. ☐ Credits are to be cut back as priorized on the attached appendix.

In the event that you have not specified your choice of priority, option one will be implemented.

Note 1: **Examples of beneficial interest are unrecorded transfers, option agreements, memorandum of agreements, etc., with respect to the mining claims.**

Note 2: **If work has been performed on patented or leased land, please complete the following:**

I certify that the recorded holder had a beneficial interest in the patented or leased land at the time the work was performed.	Signature [signature]	Date MARCH 3/95 (handwritten correction: 2)

Ontario

Ministry of Northern Development and Mines

Ministère du Développement du Nord et des mines

Statement of Costs for Assessment Credit

État des coûts aux fins du crédit d'évaluation

Mining Act/Loi sur les mines

Transaction No./N° de transaction: W9560.00101

Personal information collected on this form is obtained under the authority of the **Mining Act**. This information will be used to maintain a record and ongoing status of the mining claim(s). Questions about this collection should be directed to the Provincial Manager, Minings Lands, Ministry of Northern Development and Mines, 4th Floor, 159 Cedar Street, Sudbury, Ontario P3E 6A5, telephone (705) 670-7264.

Les renseignements personnels contenus dans la présente formule sont recueillis en vertu de la **Loi sur les mines** et serviront à tenir à jour un registre des concessions minières. Adresser toute question sur la collecte de ces renseignements au chef provincial des terrains miniers, ministère du Développement du Nord et des Mines, 159, rue Cedar, 4e étage, Sudbury (Ontario) P3E 6A5, téléphone (705) 670-7264.

1. Direct Costs/Coûts directs

Type	Description	Amount Montant	Totals Total global
Wages Salaires	Labour Main-d'oeuvre	$3,300	
	Field Supervision Supervision sur le terrain		3,300.00
Contractor's and Consultant's Fees Droits de l'entrepreneur et de l'expert-conseil	Type		
	ASSAYS	129.47	
			129.47
Supplies Used Fournitures utilisées	Type		
Equipment Rental Location de matériel	Type MK3,PRESSURE PUMP,1000'		
	SUREFIRE HOSE MIXED PUMP	600.00	
	GAS.		600.00
	Total Direct Costs Total des coûts directs		4,030.00

2. Indirect Costs/Coûts indirects

** **Note:** When claiming Rehabilitation work Indirect costs are not allowable as assessment work.
Pour le remboursement des travaux de réhabilitation, les coûts indirects ne sont pas admissibles en tant que travaux d'évaluation.

Type	Description	Amount Montant	Totals Total global
Transportation Transport	Type 2-1/2 TON TRUCKS		
	6,RETURN TRIPS FROM TIMMINS	612.00	
	4,RETURN TRIPS FROM FOLEYET	204.00	
			816.00
Food and Lodging Nourriture et hébergement	FOOD-4 MEN 22,MAN DAYS	300.00	300.00
Mobilization and Demobilization Mobilisation et démobilisation			
	Sub Total of Indirect Costs Total partiel des coûts indirects		1,116.00
	Amount Allowable (not greater than 20% of Direct Costs) Montant admissible (n'excédant pas 20 % des coûts directs)		806.00
	Total Value of Assessment Credit (Total of Direct and Allowable Indirect costs) / **Valeur totale du crédit d'évaluation (Total des coûts directs et indirects admissibles)**		4,836.00

ROUNDED OFF TO NEAREST DOLLAR

Note: The recorded holder will be required to verify expenditures claimed in this statement of costs within 30 days of a request for verification. If verification is not made, the Minister may reject for assessment work all or part of the assessment work submitted.

Note : Le titulaire enregistré sera tenu de vérifier les dépenses demandées dans le présent état des coûts dans les 30 jours suivant une demande à cet effet. Si la vérification n'est pas effectuée, le ministre peut rejeter tout ou une partie des travaux d'évaluation présentés.

Filing Discounts

1. Work filed within two years of completion is claimed at 100% of the above Total Value of Assessment Credit.
2. Work filed three, four or five years after completion is claimed at 50% of the above Total Value of Assessment Credit. See calculations below:

Total Value of Assessment Credit	Total Assessment Claimed
× 0.50 =	

Remises pour dépôt

1. Les travaux déposés dans les deux ans suivant leur achèvement sont remboursés à 100 % de la valeur totale susmentionnée du crédit d'évaluation.
2. Les travaux déposés trois, quatre ou cinq ans après leur achèvement sont remboursés à 50 % de la valeur totale du crédit d'évaluation susmentionné. Voir les calculs ci-dessous.

Valeur totale du crédit d'évaluation	Évaluation totale demandée
× 0.50 =	

RECEIVED
MAR 2 1995
PORCUPINE MINING DIVISION

Certification Verifying Statement of Costs

I hereby certify:
that the amounts shown are as accurate as possible and these costs were incurred while conducting assessment work on the lands shown on the accompanying Report of Work form.

that as FREDERICK J. ROSS (Recorded Holder, Agent, Position in Company) I am authorized to make this certification

Attestation de l'état des coûts

J'atteste par la présente :
que les montants indiqués sont le plus exact possible et que ces dépenses ont été engagées pour effectuer les travaux d'évaluation sur les terrains indiqués dans la formule de rapport de travail ci-joint

Et qu'à titre de _____ (titulaire enregistré, représentant, poste occupé dans la compagnie) je suis autorisé à faire cette attestation.

Signature	Date
F Ross	MARCH 3/95

0212 (04/91)

Nota : Dans cette formule, lorsqu'il désigne des personnes, le masculin est utilisé au sens neutre.

NOTES

400 surface rights reservation along the shores of all lakes and rivers

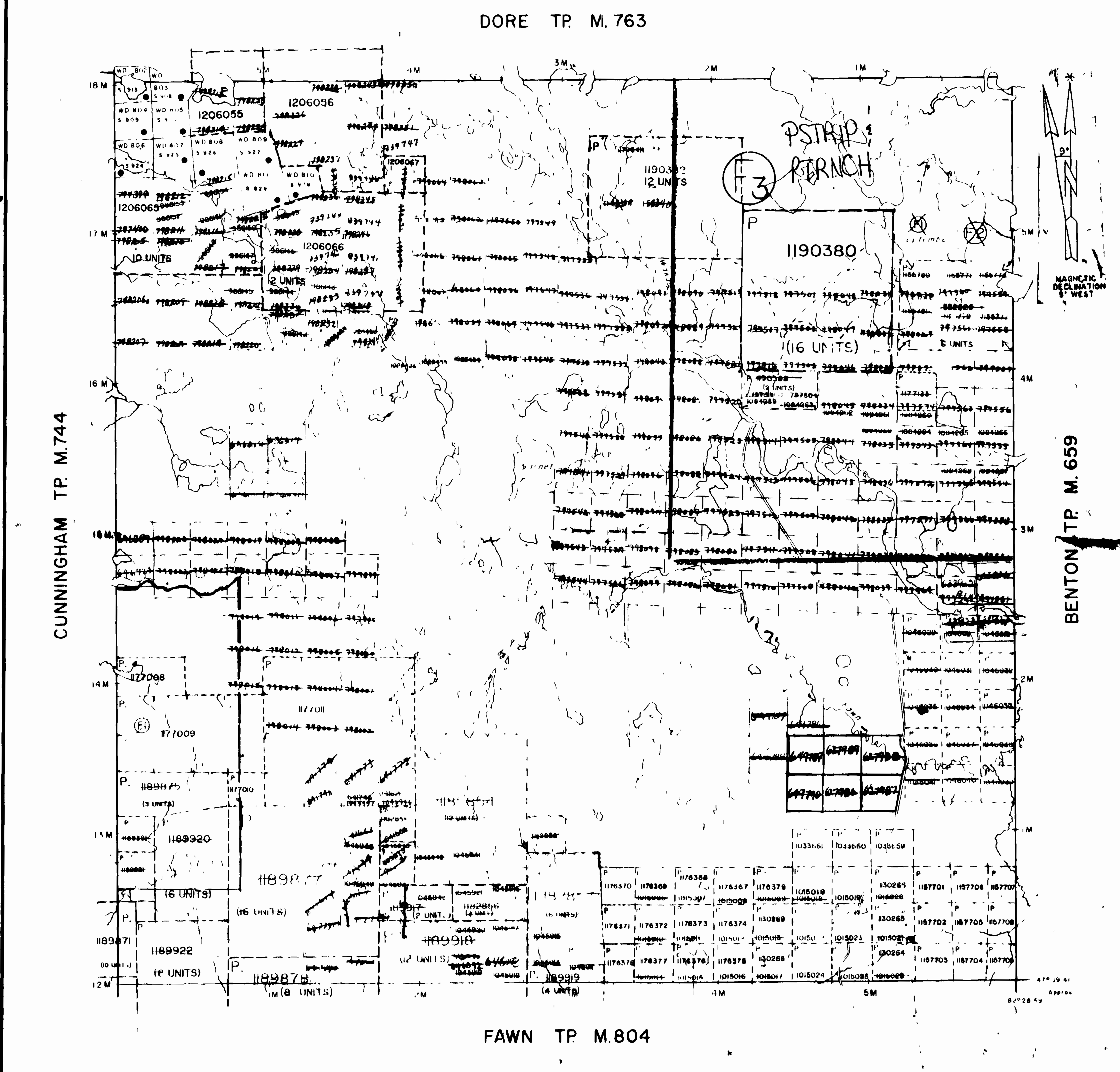
(FO1) Filed Only Application (file 839742)

~~THIS TWP. IS SUBJECT TO FOREST ACTIVITIES IN 1992/93 FURTHER INFORMATION AVAILABLE ON FILE~~

THIS TWP. IS SUBJECT TO FOREST ACTIVITY IN 1993/94/~~95~~ 1996 FURTHER INFORMATION ON FILE.

(F3)

THE INFORMATION THAT APPEARS ON THIS MAP HAS BEEN COMPILED FROM VARIOUS SOURCES, AND ACCURACY IS NOT GUARANTEED. THOSE WISHING TO STAKE MINING CLAIMS SHOULD CONSULT WITH THE MINING RECORDER, MINISTRY OF NORTHERN DEVELOPMENT AND MINES, FOR ADDITIONAL INFORMATION ON THE STATUS OF THE LANDS SHOWN HEREON



LEGEND

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

F.O.1 "Filed ONLY - see file P 839742 No019/85"

DISPOSITION OF CROWN LANDS

TYPE OF DOCUMENT		SYMBOL
PATENT	SURFACE & MINING RIGHTS	●
	SURFACE RIGHTS ONLY	◓
	MINING RIGHTS ONLY	
LEASE	SURFACE & MINING RIGHTS	■
	SURFACE RIGHTS ONLY	
	MINING RIGHTS ONLY	
LICENCE OF OCCUPATION		▼
CROWN LAND SALE		CS
ORDER-IN-COUNCIL		OC
RESERVATION		Ⓡ
CANCELLED		ⓧ
SAND & GRAVEL		Ⓖ

SCALE: 1 INCH = 40 CHAINS

FEET 0 500 1000 2000 4000 6000 8000

METRES 0 200 400 600 800 1 KM 2 KM

ACRES	HECTARES
40	16

TOWNSHIP

GARNET

DISTRICT

SUDBURY

MINING DIVISION

PORCUPINE

Received Jan 4/80

Ministry of Natural Resources

Ontario

Surveys and Mapping Branch

Date April 27th, 1973

Whitney Block Queen's Park, Toronto

Plan No. G-1130

41O09NW0041 W8560 00101 GARNET

200

GEOLOGIC SKETCH, LITHOLOGIES AND ROCK SAMPLE DESCRIPTIONS

DORE ROAD IRON FORMATION
GARNET TOWNSHIP
ONTARIO

FOR
NORAMCO EXPLORATION

BY: GLEN PRIOR

NORWIN RESOURCES LTD.

NOVEMBER 1986

#63.4912

OM 86-5-P-32

THIS SUBMITTAL CONSISTED OF VARIOUS REPORTS, SOME OF WHICH HAVE BEEN CULLED FROM THIS FILE. THE CULLED MATERIAL HAD BEEN PREVIOUSLY SUBMITTED UNDER THE FOLLOWING RECORD SERIES (THE DOCUMENTS CAN BE VIEWED IN THESE SERIES):

GEOLOGICAL SURVEY REPORT, WESTERN PACIFIC ENERGY CORP., B.L. MASSON, SEPTEMBER 1986 ⟶ SEE TORONTO OFFICE FILE # 2.9422, REPORT OF WORK # 306 FOR 1986

LITHOLOGIES

3 Gabbro: Equigranular, medium-grained, non-magnetic rock consisting of approximately 60% light green to white feldspars and 40% dark green, weakly chloritic pyroxenes. Both feldspars and pyroxenes occur as primarily subhedral crystals up to 4 mm long. The rock is weakly jointed and non-foliated. Very trace amounts of disseminated, very fine-grained pyrite were observed. Weathered surfaces have somewhat mottled appearances and indicate the presence of two types of pyroxenes in roughly equal amounts. One type, probably an iron-rich orthopyroxene, weathers recessively and is strongly stained by iron-oxide while the other phase, probably a clinopyroxene, is non-recessive and weathers to a medium green. Feldspars weather white to light green.

2 Iron Formation: Very fine-grained, massive to semi-massive magnetite iron formation that may be weakly to moderately-well banded on a centimeter scale. Semi-massive varieties contain beds from 0.5 to 2 cm thick of massive, very fine-grained magnetite alternating with very fine-grained, weakly to strongly magnetic, black argillaceous horizons containing disseminated, fine-grained muscovite.

1a Mafic Volcanic: Very fine-grained, dark green, dark green weathering mafic volcanic rock that is non-magnetic and contains very trace amounts of disseminated, very fine-grained pyrite. The rocks are weakly chloritic, commonly contain 0.5 to 2% calcite veinlets, and the exposure north of the road is weakly foliated.

1b Porphyritic Mafic Volcanic: Similar to unit 1a but contains about 5% subhedral feldspar phenocrysts up to 4 mm long and the rock weathers to a medium green.

ROCK SAMPLE DESCRIPTIONS

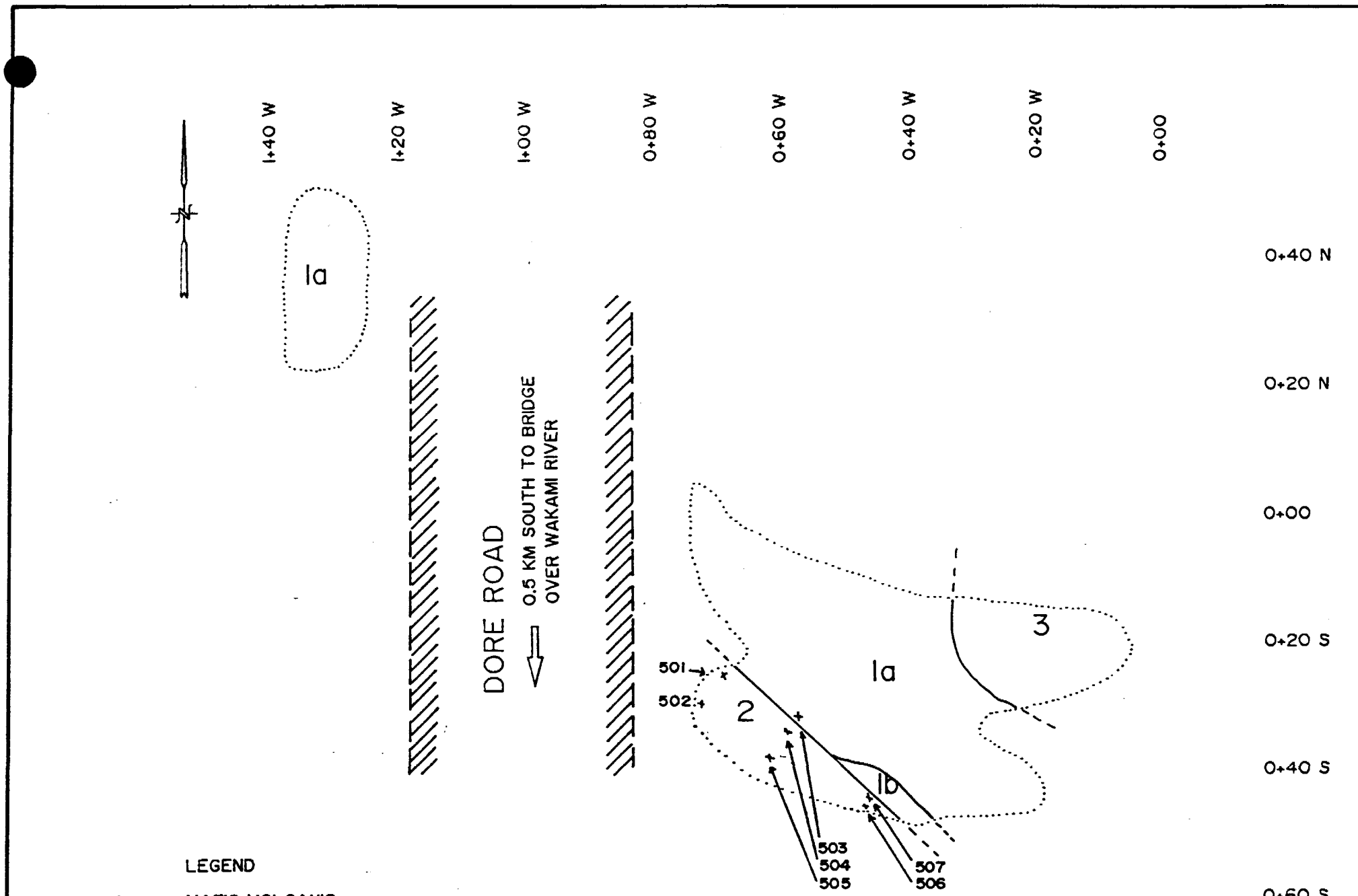
GT-R-501	Very fine-grained, massive magnetite iron formation cross-cut by 1 to 2% hairline veinlets of calcite and narrow veionlets of quartz. contains approximately 0.5% fine-grained pyrite in discontinuous, hairline sulphide veinlets and as disseminated, anhedral grains. The outcrop is moderately stained by Fe-oxide.
GT-R-502	Very fine-grained, massive magnetite iron formation weakly banded on a 0.5 to 3 cm scale. Cross-cut by less than 1% quartz veinlets. Weak Fe-oxide stain.
GT-R-503	Sample of strongly quartz veined zone lying along shear contact between mafic volcanics and iron formation. Over the 35 feet (10.5m) of contact exposed by stripping this zone varies from a few centimeters to 25 cm in width. At the location of sample GT-R-503 the zone is 15 to 20 cm wide. The sample contains about 80% white, very fine-grained quartz, 10% narrow, irregular veinlets and lenses of chlorite (some of which may represent small, strongly chloritized, mafic volcanic fragments) and 10% blebs of light brown Fe-oxide up to 2 cm across. The Fe-oxide blebs, which are cross-cut by both quartz and chlorite veinlets, probably represents intensely oxidized breccia fragments of the magnetite iron formation. The sample also contains less than 0.25% hairline calcite veinlets. The outcrop is strongly stained by Fe-oxide.
GT-R-504	Very fine-grained, massive magnetite iron formation containing about 0.5% irregular, narrow, Fe-oxide veinlets and 0.25 to 0.5% veinlets less than 1 mm wide of very fine-grained quartz.
GT-R-505	Very fine-grained, massive magnetite iron formation containing approximately 1% multidirectional veinlets up to 1 mm wide of quartz-Fe-oxide, calcite, and possibly Fe-carbonate.

GT-R-506

Semi-massive magnetite iron formation bedded on a scale of 0.5 to 2 cm. The rock alternates between layers of very fine-grained, massive magnetite and layers of very fine-grained, black, weakly to strongly magnetic argillite containing fine-grained, disseminated muscovite. Bedding drips at a shallow angle to the south which, given the near-vertical attitude of the iron formation-volcanic contact, indicates a fault contact. The sample is cross-cut, generally at a high angle to bedding, by quartz-Fe-carbonate +/- Fe-oxide +/- calcite veinlets up to 3 mm wide. The wider veinlets consist of a fine-grained quartz core rimmed by fine-grained Fe-carbonate. Approximately 0.5% fine-grained pyrite is disseminated throughout the sample along with some possible, very fine-grained, striated arsenopyrite.

GT-R-507

Sample collected from 25 cm wide, strongly quartz veined zone along shear contact between volcanics and iron formation (cf. sample GT-R-503). Rock consists of very fine-grained, massive magnetite iron formation cross-cut by about 10% multidirectional Fe-oxide +/- calcite veinlets up to 1 mm wide. The rock has a light brown, Fe-oxide weathering rind a few millimeters to 1 cm thick.



LEGEND

1a	MAFIC VOLCANIC
1b	PORPHYRITIC MAFIC VOLCANIC
2	IRON FORMATION
3	GABBRO
x	OUTCROP GRAB SAMPLE
—---	GEOLOGIC CONTACT
.....	LIMIT OF EXPOSURE
//////	ROAD

0 10 20

FEET

DORE ROAD IRON FORMATION

GARNET TOWNSHIP ONTARIO

GEOLOGY & SAMPLE LOCATION SKETCH

NOVEMBER 1986 GJP.

ASSAY RESULTS

Sample No.	Assay (oz gold/t)
501	Nil
502	Tr
503	0.01
504	0.005
505	0.02
506	0.112
507	0.01

EXPLORATION SUMMARY

GARNET LAKE PROPERTY

GARNET TOWNSHIP

ONTARIO

FOR

WESTERN PACIFIC ENERGY CORPORATION

L.D.S. Winter
B.A.Sc., M.Sc., F.G.A.C.
October 3, 1986

TABLE OF CONTENTS

1. INTRODUCTION

The Garnet Lake property of Western Pacific Energy Corporation is located in the east-central part of Garnet township in the Swayze greenstone belt of northeastern Ontario (Figure 1).

The claims were acquired for their potential for gold mineralization and following preliminary evaluation work a 2-phase programme of exploration was recommended.

The writer has been requested by the company to evaluate and summarize the results to date and to review recommendations for completion of the work programme.

2. SUMMARY AND RECOMMENDATIONS

To date an exploration programme consisting of airborne geophysical surveys (magnetometer and VLF), line-cutting, ground geophysics (magnetometer, VLF and Self-potential surveys), geological mapping and sampling and diamond drilling has been completed on the property.

This work confirmed the presence of the main zone of iron formation and associated units trending southeasterly across the property and bounded by metavolcanics to the north and south. Along the northern edge of the zone of iron formation from the central part of the claims eastward for approximately 13,000 feet an area of quartz and sulphide veining, carbonatization and silicification and pyrite, arsenopyrite and gold mineralization has been identified. The best value obtained was 4940 ppb gold - 0.144 oz. gold per ton from a trench in iron formation within this zone adjacent to the main road and containing quartz veining and sulphide mineralization.

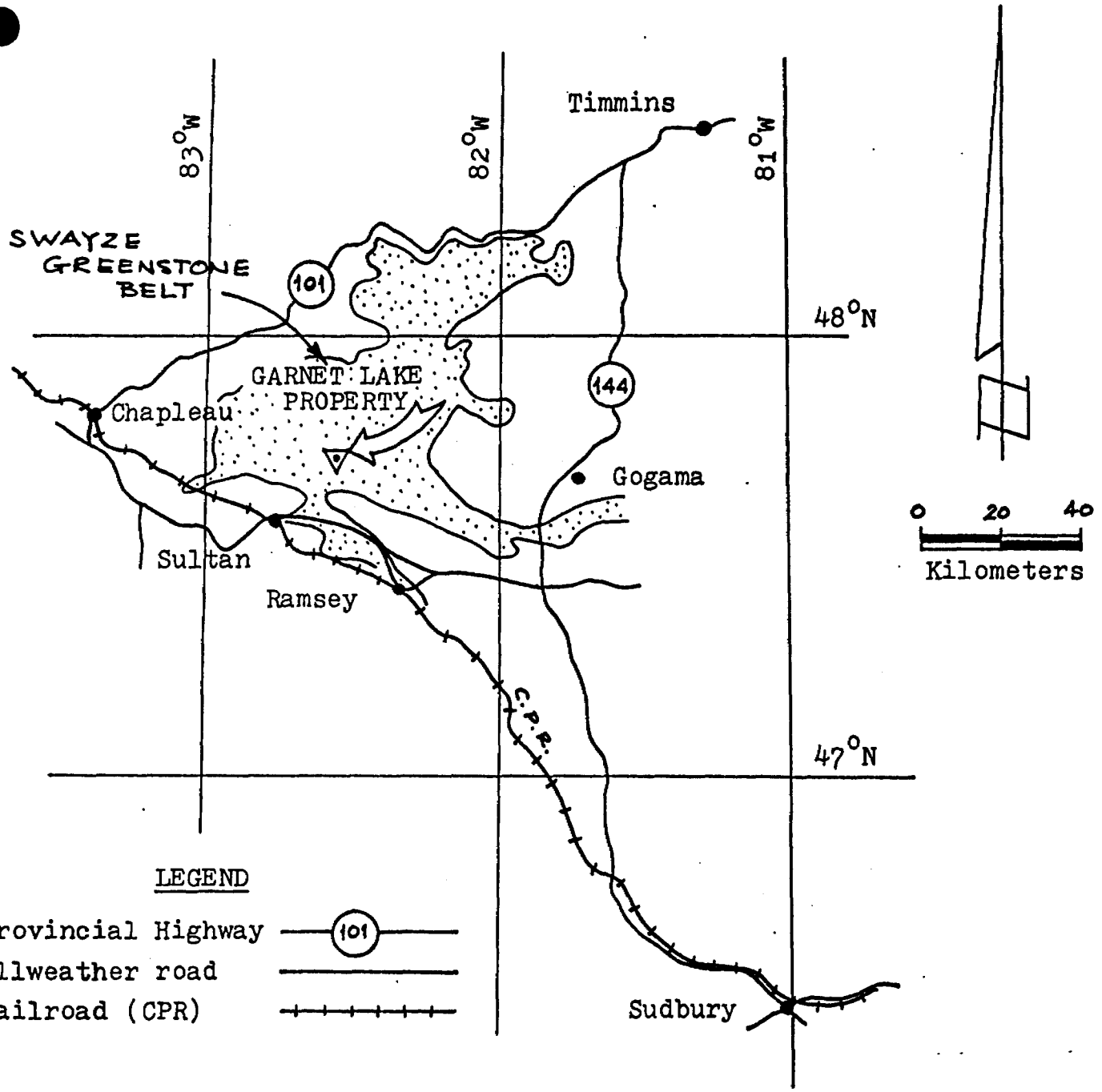


FIGURE 1

GENERAL LOCATION MAP
GARNET LAKE PROPERTY
DISTRICT OF SUDBURY
ONTARIO

To accompany the report for
WESTERN PACIFIC ENERGY CORPORATION

OCTOBER 3: 86

To complete the property evaluation a programme of surface stripping, trenching, mapping and sampling of mineralized areas within the favourable zone is recommended with an estimated cost of $12,000.

Respectfully submitted,

L.D.S. Winter
B.A.Sc., M.Sc., F.G.A.C.
October 3, 1986

GEOLOGICAL ASSOCIATION OF CANADA
L. D. S. Winter
FELLOW

3. PROPERTY, LOCATION AND ACCESS

3.1 Claim Group

The property consists of 141 unpatented contiguous mining claims in good standing as shown in Figure 2 and as listed below after Plan M.829 Garnet Township as issued by the Surveys and Mapping Branch of the Ontario Ministry of Natural Resources. The claim numbers are as follows:

CLAIM NUMBERS	NO. OF CLAIMS
P.797501 to 797575 inclusive	75
P.798029 to 798048 inclusive	20
P.798055 to 798072 inclusive	18
P.798080 to 798099 inclusive	20
P.839741 to 839748 inclusive	8
TOTAL	141

3.2 Location and Access

Garnet Township is located in the District of Sudbury, Porcupine Mining Division of northeastern Ontario at 47° -43' N latitude, 82° -30' W longitude (Figure 1) approximately 75 miles southwest of Timmins.

A good gravel road crosses the property and leads south 9 miles then west a distance of 18 miles to Sultan on the transcontinental line of the Canadian Pacific Railway. Highways 667 and 129 connect Sultan to Chapleau, 40 miles to the northwest.

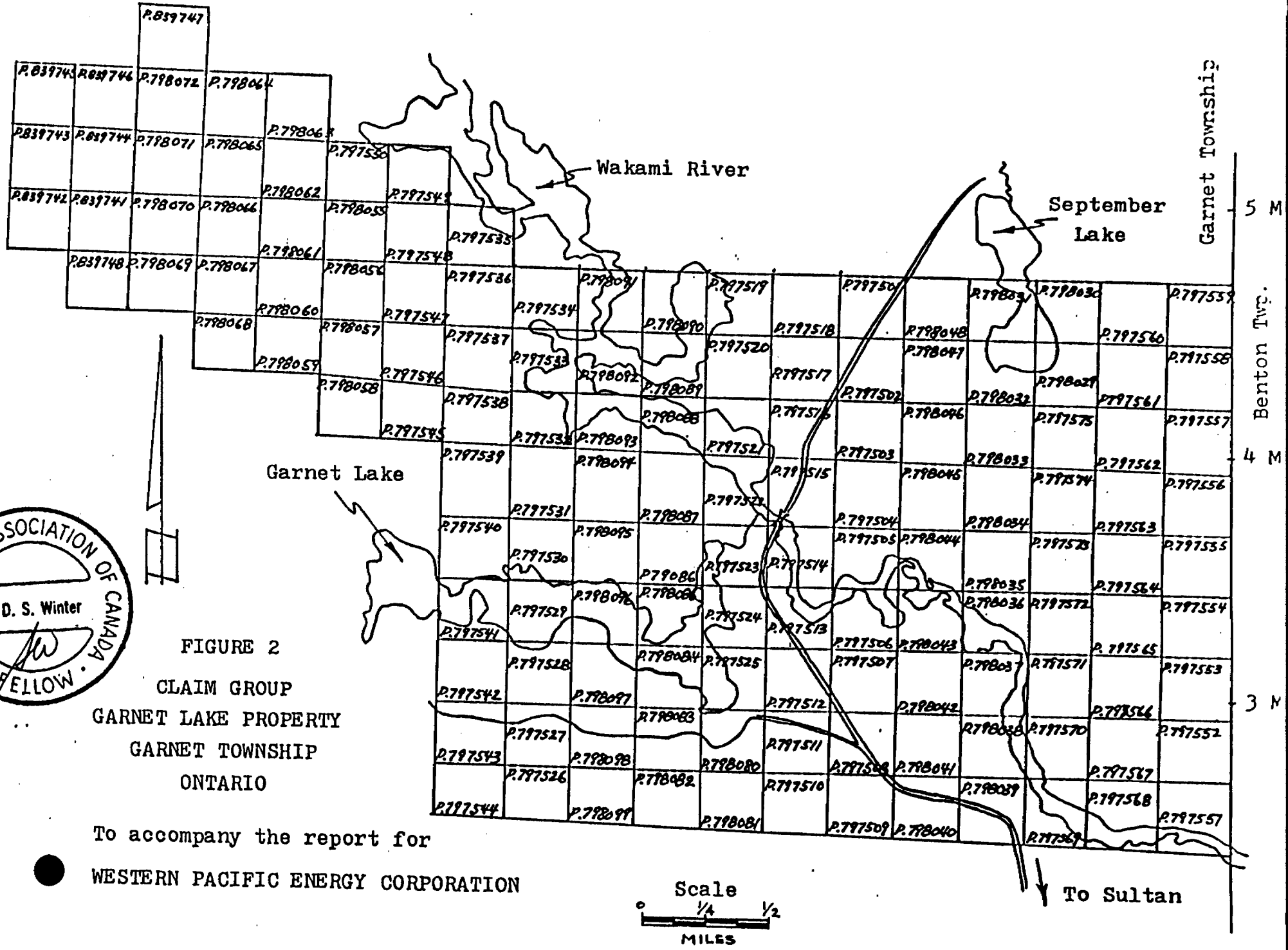


FIGURE 2

CLAIM GROUP

GARNET LAKE PROPERTY

GARNET TOWNSHIP

ONTARIO

To accompany the report for

WESTERN PACIFIC ENERGY CORPORATION

4. GEOLOGY

4.1 Regional Geology

The Garnet property occurs in the south-central section of the Swayze greenstone belt (Figure 1). In the Garnet, Cunningham and Benton Townships the belt is made up of a sequence of metamorphosed (greenschist facies) early Precambrian (Archean) volcanic rocks. The sequence is composed dominantly of basaltic flows and tuffs, with subordinate units of felsic porphyritic tuffs, clastic metasediments and by chemical metasediments represented by graphitic cherts and various facies of iron formation. The volcanic sequence has been intruded by gabbro-peridotite bodies, felsic porphyritic intrusions and diabase and lamprophyre dykes. Flanking the sequence to the south are granitoid intrusions and migmatites. Winter (1985) has outlined a more detailed account of the regional geology in an earlier report for Western Pacific Energy Corp.

4.2 Property Geology

The Garnet Lake property in east-central Garnet township is underlain by a west-northwest trending and steeply dipping sequence of metavolcanics that range from massive to porphyritic flows to tuffs and agglomerates. These metavolcanics are generally green to dark green in colour, range from fine to medium grained and when porphyritic contain phenocrysts of white plagioclase or quartz. Pillowed varieties are present in both the east-central and southwestern parts of the claim group. The composition appears to range from intermediate to mafic.

Ferruginous chert to magnetite iron formation with associated graphite occurs in the northwestern part of the property and trends east-southeasterly across the claims.

In the eastern part of the claim group possibly three units, each approximately 1000 feet wide, of porphyritic felsic metavolcanics trend approximately east-west and dip steeply south. One unit is a feldspar porphyry and two units are quartz porphyries.

In the central and eastern part of the property sill-like to somewhat discordant bodies of mafic composition have intruded the metavolcanics and associated metasediments. These intrusives are gabbroic to dioritic in composition, massive and with a diabasic texture. A small nose of this material also occurs in the southwestern corner of the property.

Outcrops of agglomerate or volcaniclastic conglomerate and associated finer grained units trending at 110° occur in the southwestern corner of the property. These units show considerable carbonate alteration.

In summary, the property consists of a sequence of west-northwest trending metavolcanics of intermediate to mafic composition containing intercalated chert, iron formation and associated sediments across the central region of the claims. Three bodies of porphyritic felsic metavolcanics, possibly sub-volcanic intrusives, occur in the eastern part of the claims and sill-like bodies of gabbro and diorite have intruded the sequence, in the central and eastern part of the claims.

5. PREVIOUSLY RECORDED ASSESSMENT WORK

The only recorded assessment work is that reported by INCO Limited in the mid-1960s when 5 drill holes, numbers 31911, 31912, 31913, 31914 and 31915 were drilled along the northwest trending zone of chemical metasediments in the search for base metals (Assessment Files, Timmins, Ontario).

6. REVIEW OF EXPLORATION WORK 1985-1986

6.1 Phase 1

The Phase 1 exploration programme was initiated in November 1985 and included:

1. Linecutting: 56.22 line miles were cut at 400 ft. spacing with pickets at 100 ft. intervals. Five baselines and tielines were also cut.
2. Geophysics: Ground Magnetometer (18.5 line-miles), VLF-EM (19.2 line-miles) and Self Potential (S.P.) surveys (14.7 line-miles) were done over selected parts of the grid.
3. Geological Mapping: The area covered by the grids was mapped with particular emphasis on lithologic, structural and metamorphic elements. Rock units were sampled and mineralized areas were prospected and sampled.

As indicated by Goodwin (1986) the recommended basal till sampling programme was not carried out due to time constraints and the availability of equipment. Due to the deep and often erratic overburden depths neither the humus till geochemical soil sampling programme nor the induced polarization survey were carried out.

Eighteen VLF-EM conductors with coincident magnetics and/or self potential (SP) association were identified (Winter, 1986A). A number of other VLF-EM anomalies considered to be due to conductive overburden and/or structural features were also identified. In the western part of the property the VLF-EM, magnetic and SP anomalies are associated with the iron formation stratigraphy. The geology in the eastern part of the claims is much more complex and the cause of the geophysical anomalies is considered to be more variable.

6.2 Phase 2

The second phase of the exploration programme consisted of diamond drilling of 14 holes, for a total of 5,630 ft. of BQ core, between December 1, 1985 and February 14, 1986 and completion of the geological mapping.

Seven holes (Figure 3) were drilled on the western part of the grid testing geophysical targets. These holes intersected cherty to graphitic to sulphide-rich iron formation with intercalated metavolcanics and gabbro-diorite intrusives. Anomalous copper (1325 ppm) and zinc (600 ppm) values were obtained in hole G-85-3 between 74 and 79 feet but no other values of significance were obtained from this part of the property (Winter, 1986B).

Seven holes were also drilled on the eastern grid testing geophysical anomalies. In general iron formation, mafic metavolcanics, porphyries and gabbro-diorite intrusives were intersected. Hole G-85-7 intersected 1 ft. from 379 to 380 ft. of carbonatized and silicified metavolcanic containing pyrite and arsenopyrite that assayed 930 ppb gold. Iron formation in holes G-85-10 and G-85-11 showed elevated gold values from 110 to 380 ppb. Hole G-85-13 penetrated 140 ft. of overburden and was abandoned at this point due to caving.

The geological work by Masson (1986) clarified the geology of the property, was very useful in interpreting the geophysical results and outlined areas of particular economic potential.

This work confirmed the zone of iron formation, metavolcanics and gabbro-diorite sills approximately 3000 ft. wide trending southeasterly across the property. The northeastern part of the claims was found to be underlain by an easterly plunging anticline syncline par containing intercalated metabasalts, quartz-feldspar porphyries and

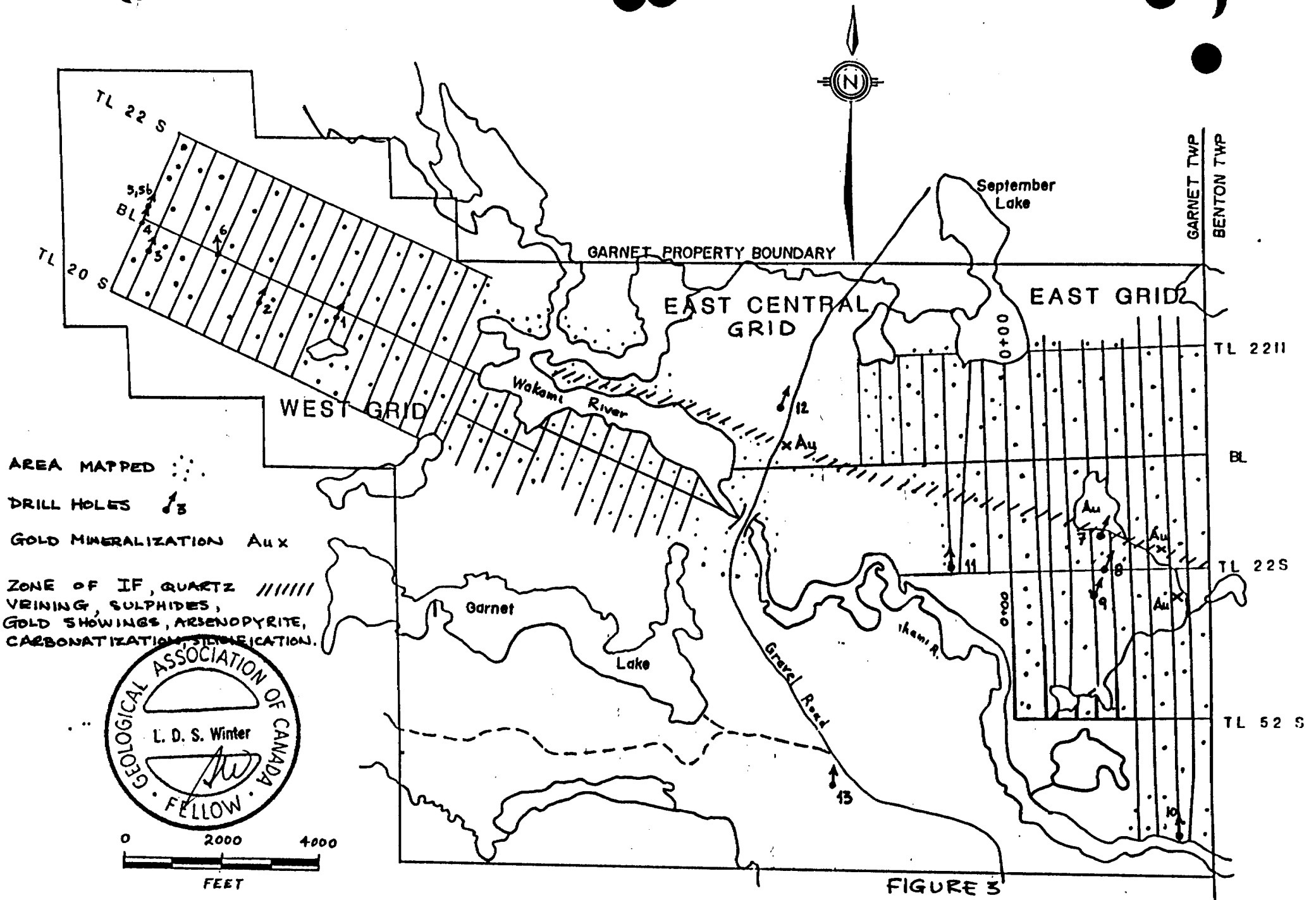


FIGURE 3
GARNET LAKE PROPERTY
GRID AND DRILL HOLE
LOCATIONS

pyroclastics. The southern half of the claims is underlain mainly by metabasalts with iron formation and gabbro sills along the southern claim boundary. Masson (1986) has also identified a series of east-northeast trending faults crossing the property.

During the mapping programme gold-copper mineralization associated with iron formation and quartz veining was located along the north side of the Wakami River and for about 4000 ft. west of the main access road. Iron formation within this horizon at the main road gave 3 samples assaying 484,926 and 4940 ppb gold (0.144 oz. gold per ton).

6.3 Expenditures

The total expenditure on Phase 1 amounted to approximately $62,000 while the expenditures in Phase 2 were $182,300 for the drilling programme. This is an all inclusive cost including supervision, logging, sampling and assaying. The completion of the geological mapping in Phase 2 resulted in a cost of $11,800 for a total Phase 2 expenditure of $194,100.

7. CONCLUSIONS

The geological mapping, geophysics and diamond drilling has provided considerable detail on the zone of iron formation trending southeasterly across the property. However, except for one area, the results have generally shown only very low values in gold and base metals. The exception is the area along the northern edge of the iron formation horizon, north of the Wakami River for 4000 ft. west of the road and southeastward 9000 ft. to the eastern claim boundary. This area contains the iron formation horizon cut by quartz veining and gold and copper mineralization (4940 ppb gold) adjacent to the main road, quartz veining and low gold values (685 ppb) to the west and the anomalous gold values in

carbonatized and silicified metavolcanics containing pyrite and arsenopyrite to the southeast (drill hole G-85-7 and surface samples).

It is considered that this zone of economic interest which has been identified by the work to date is worthy of further evaluation. In particular, the surface showing adjacent to the road and containing the gold samples with elevated values (4940 ppb gold or 0.144 oz. gold per ton) in iron formation should be assessed. To accomplish this a programme of surface stripping, sampling and assaying of the showing is proposed at an estimated cost of $12,000.

L.D.S. Winter
B.A.Sc., M.Sc., F.G.A.C.
October 3, 1986.

GEOLOGICAL ASSOCIATION OF CANADA
L. D. S. Winter
FELLOW

REFERENCES

1. GOODWIN, J.R., 1986
Exploration Summary, Garnet Lake Property, Garnet Township, District of Sudbury, Ontario for Western Pacific Energy Corporation, 5p.

2. MASSON, S.L., 1986
Geological Survey Report on the Garnet Lake Property, Garnet Township, District of Sudbury, Ontario for Western Pacific Energy Corporation, 20p.

3. WINTER, L.D.S., 1985
Geological Report on the Garnet Lake Property, Garnet Township, District of Sudbury, Ontario for Western Pacific Energy Corporation. 18p.

4. WINTER, L.D.S. 1986A
Report on the Exploration Programme on the Garnet Township Property, Ontario for Western Pacific Energy Corporation, 11p.

5. WINTER, L.D.S. 1986B
Report on the Diamond Drilling Programme on the Garnet Township Property, Ontario for Western Pacific Energy Corporation, December 1985 - February 1986, 9p.

CERTIFICATE OF QUALIFICATION

I, Lionel Donald Stewart Winter do hereby certify:

1. that I am a geologist and reside at 1849 Oriole Drive, Sudbury, Ontario, P3E 2W5,
2. that I am a Fellow of the Geological Association of Canada,
3. that I graduated from the University of Toronto in Mining Engineering in 1957 with a Bachelor of Applied Science and from McGill University, Montreal in 1961 with a Master of Science (Applied) in Geology,
4. that I have practised my profession continuously for 25 years,
5. that my report on the Garnet Lake Property, Garnet Township, Ontario is based on my personal knowledge of the geology of the area, work on the property, and on a review of published and unpublished information on the property and surrounding area.
6. that I have no personal, direct or indirect interest in the Garnet Lake Property, Garnet Township, Ontario or any adjacent properties, nor do I hold or intend to hold any shares of Western Pacific Energy Corporation and I have written this report as a totally independent consultant.

L.D.S. Winter
B.A. Sc., M.Sc., F.G.A.C.
October 3, 1986

L.D.S. Winter

GEOLOGICAL ASSOCIATION OF CANADA
L. D. S. Winter
FELLOW

LETTER OF CONSENT

I, L.D.S. Winter, consulting geologist, 1849 Oriole Drive, Sudbury, Ontario, do hereby consent to Western Pacific Energy Corporation using in whole or in part my report on the Garnet Lake Property, Garnet Township, Ontario in a prospectus or statement of material facts or for filing with government regulatory bodies as is deemed necessary.

L.D.S. Winter

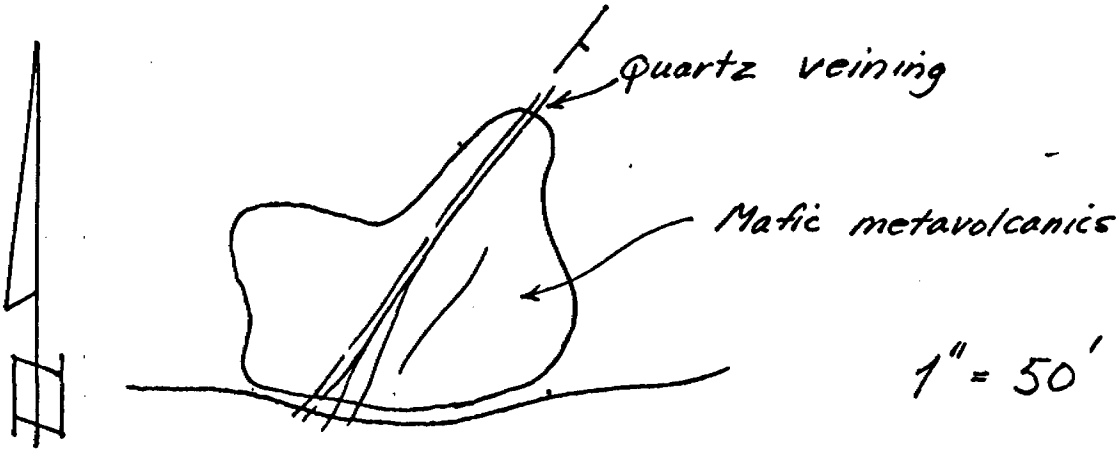
GEOLOGICAL ASSOCIATION OF CANADA · L. D. S. Winter · FELLOW ·

Dated at Sudbury, Ontario
October 3, 1986

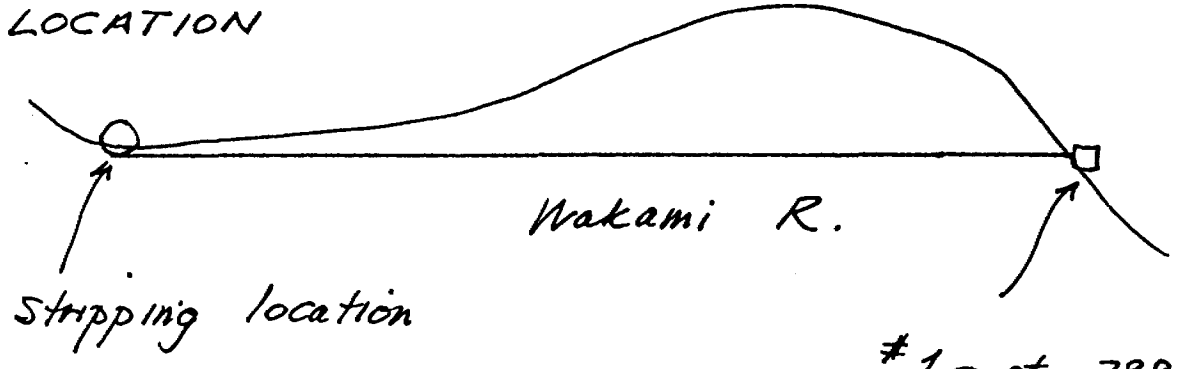
L.D.S. Winter
B.A.Sc., M.Sc., F.G.A.C.

STRIPPING - GARNET LAKE PROPERTY

AREA # 1. - Cl. 798089



Lake - Wakami River



#1 post - 798088.

#2 post - 798089.

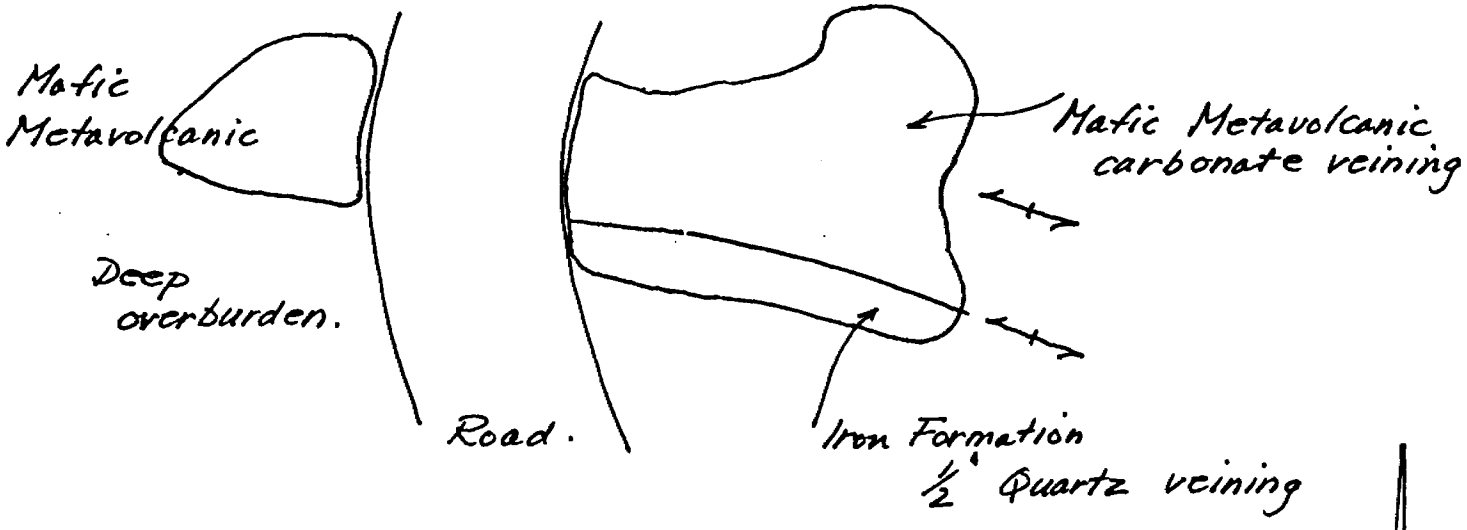
L.D.S. Writer

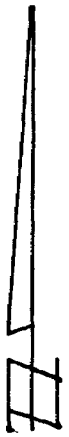
October 31, 1986

STRIPPING - GARNET LAKE PROPERTY

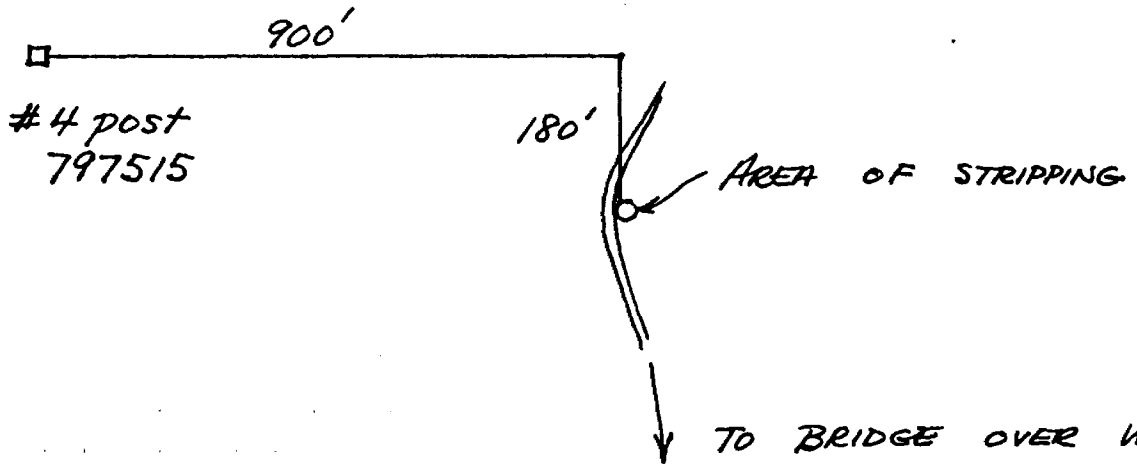
AREA # 2 - Cl. 797515

1" = 50'





LOCATION

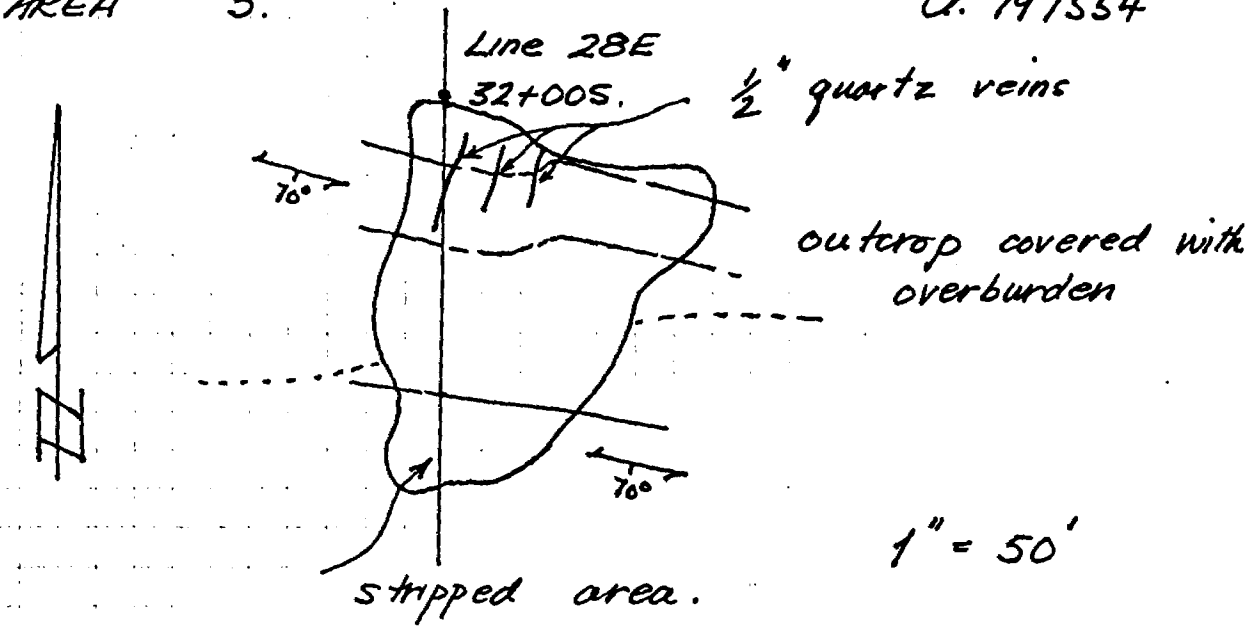


L.D.S. Winter

October 31, 1986

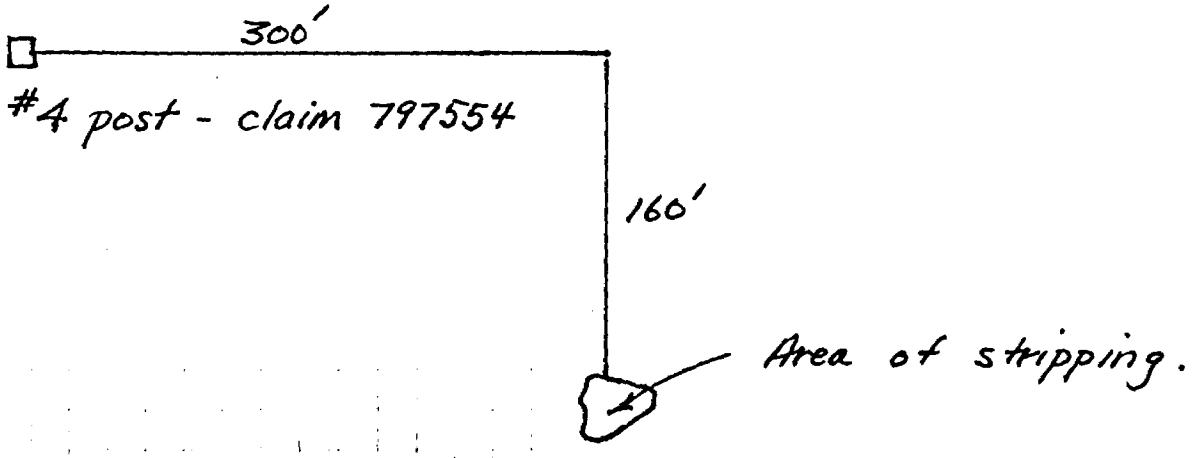
STRIPPING - GARNET LAKE PROPERTY.

AREA # 3. Cl. 797554



all rock is foliated mafic metavolcanic -

LOCATION.



L.D.S. Winter

October 31, 1986.

Ministry of Natural Resources

Report of Work

W.R. # 341/86

The Mini

41009NW0081 63.4912 GARNET

900

Name and Postal Address of Recorded Holder

D.G. Innes | C-32477

1275 Main St. W. North Bay, Ontario P1B 2W7

Summary of Work Performance and Distribution of Credits

Total Work Days Cr. claimed ~~882~~ 910 Days

for Performance of the following work. (Check one only)

- [ ] Manual Work
- [ ] Shaft Sinking Drifting or other Lateral Work.
- [ ] Compressed Air, other Power driven or mechanical equip.
- [X] Power Stripping
- [ ] Diamond or other Core drilling
- [ ] Land Survey

Mining Claim Prefix	Mining Claim Number	Work Days Cr.	Mining Claim Prefix	Mining Claim Number	Work Days Cr.	Mining Claim Prefix	Mining Claim Number	Work Days Cr.
	839741	100		~~797574~~	~~10~~			
	839742	100		~~797575~~	~~10~~			
	839743	100		~~798029~~	~~10~~			
	839744	100		~~797522~~	~~27~~			
	839745	100		797535	~~10~~ 25			
	839746	100						
	839747	100						
	839748	100						

All the work was performed on Mining Claim(s): 798089, 797515, 797554

Required Information eg: type of equipment, Names, Addresses, etc. (See Table Below)

Power Stripping and trenching with backhoe and wajax pump between Oct. 22nd and 30th, 1986

Ivan Collins

Alquest Exploration Services
637 Algonquin East
Timmins, Ontario
P4N 7N2

(705) 264-3311

RECORDED
NOV - 3 1986

Date of Report	Recorded Holder or Agent (Signature)
Oct. 31, 1986	M. Dubeau

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

Quinterra Resources

1275 Main St. W. North Bay, P1B 2W7

Date Certified	Certified by (Signature)
Oct. 31, 1986	M. Dubeau

Table of Information/Attachments Required by the Mining Recorder

Type of Work	Specific Information per type	Other Information (Common to 2 or more types)	Attachments
Manual Work Shaft Sinking, Drifting or other Lateral Work	Nil	Names and addresses of men who performed manual work/operated equipment, together with dates and hours of employment.	Work Sketch: these are required to show the location and extent of work in relation to the nearest claim post.
Compressed air, other power driven or mechanical equip.	Type of equipment		
Power Stripping	Type of equipment and amount expended. Valid Proof of actual cost must be submitted		

RECEIVED
PORCUPINE MINING DIVISION
NOV 3 1986

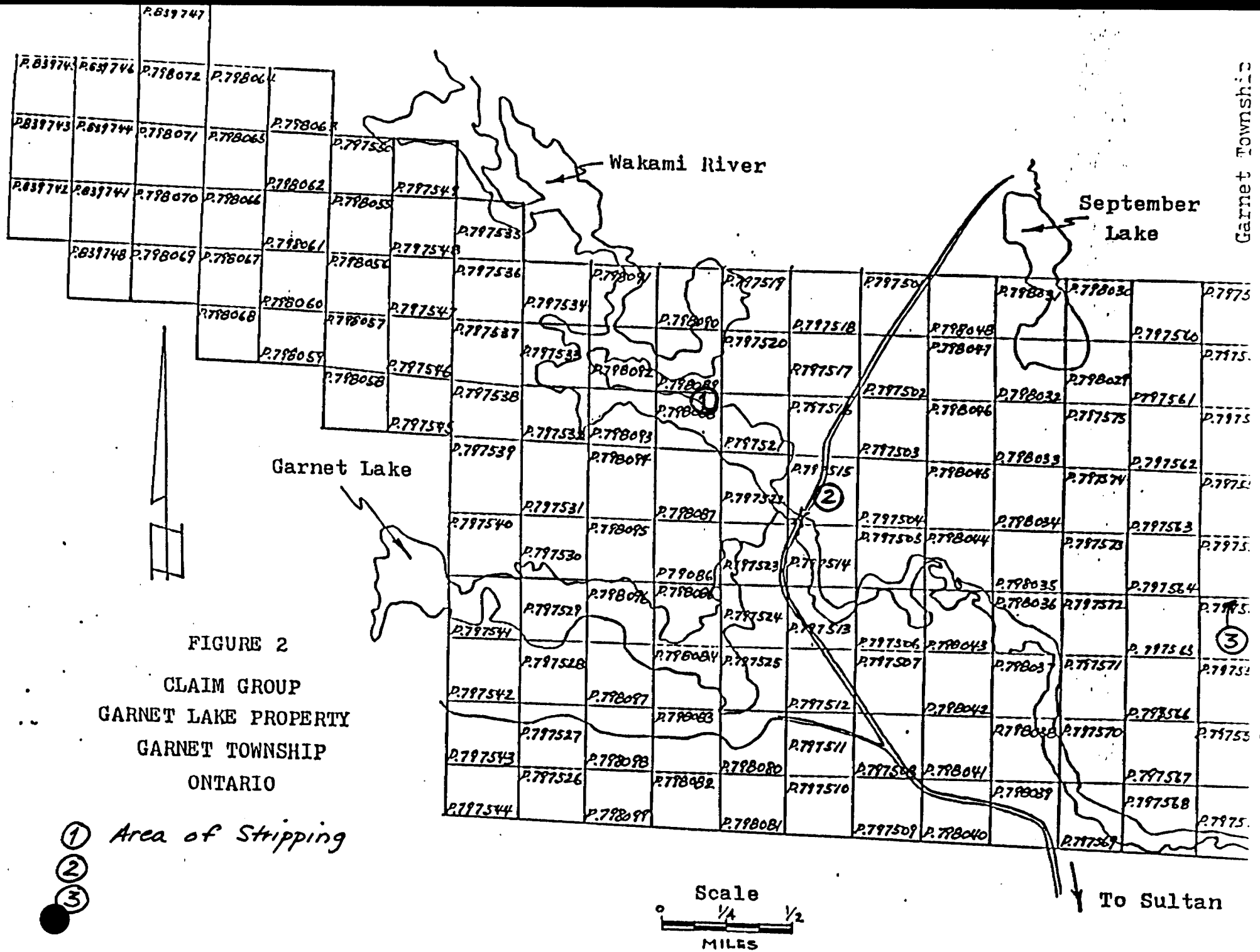


FIGURE 2

CLAIM GROUP

GARNET LAKE PROPERTY

GARNET TOWNSHIP

ONTARIO

1 of 2

63.4733

GOODWIN MINERAL EXPLORATIONS
John R. Goodwin, MSc
Consulting Geologist

EXPLORATION SUMMARY
GARNET LAKE PROPERTY
GARNET TOWNSHIP
DISTRICT OF SUDBURY, ONTARIO
FOR
WESTERN PACIFIC ENERGY CORPORATION

OM85-198

January 5, 1986

John R. Goodwin

R.R. 1, Pine Creek Road • Callander, Ontario P0H 1H0 • 705-752-1204

TABLE OF CONTENTS

INTRODUCTION

The Garnet Lake property of Western Pacific Energy Corporation covers the southern arm of the Swayze greenstone belt of northeastern Ontario (Figure 1). The property consists of 133 unpatented contiguous mining claims in the east-central portion of Garnet Township (Figure 2).

The subject claims are underlain by a sequence of west-northwest trending mafic metavolcanics containing zones of intercalated chert and iron formation. Two bodies of porphyritic felsic metavolcanics, possibly sub-volcanic intrusives, occur in the eastern part of the claims. A sill-like body of gabbro and diorite has intruded the sequence in the region of the iron formation horizon in the east and central portion of the claim group.

Empirical data shows that this property contains many features associated with economically important gold mineralization:

- iron formation
- exhalative pyritic horizons
- proximity to mafic metavolcanic sequence
- possible facies change within the chemical-clastic sedimentary unit
- carbonate sediments and/or carbonate alteration
- porphyritic felsic metavolcanics within the sequence

.../2

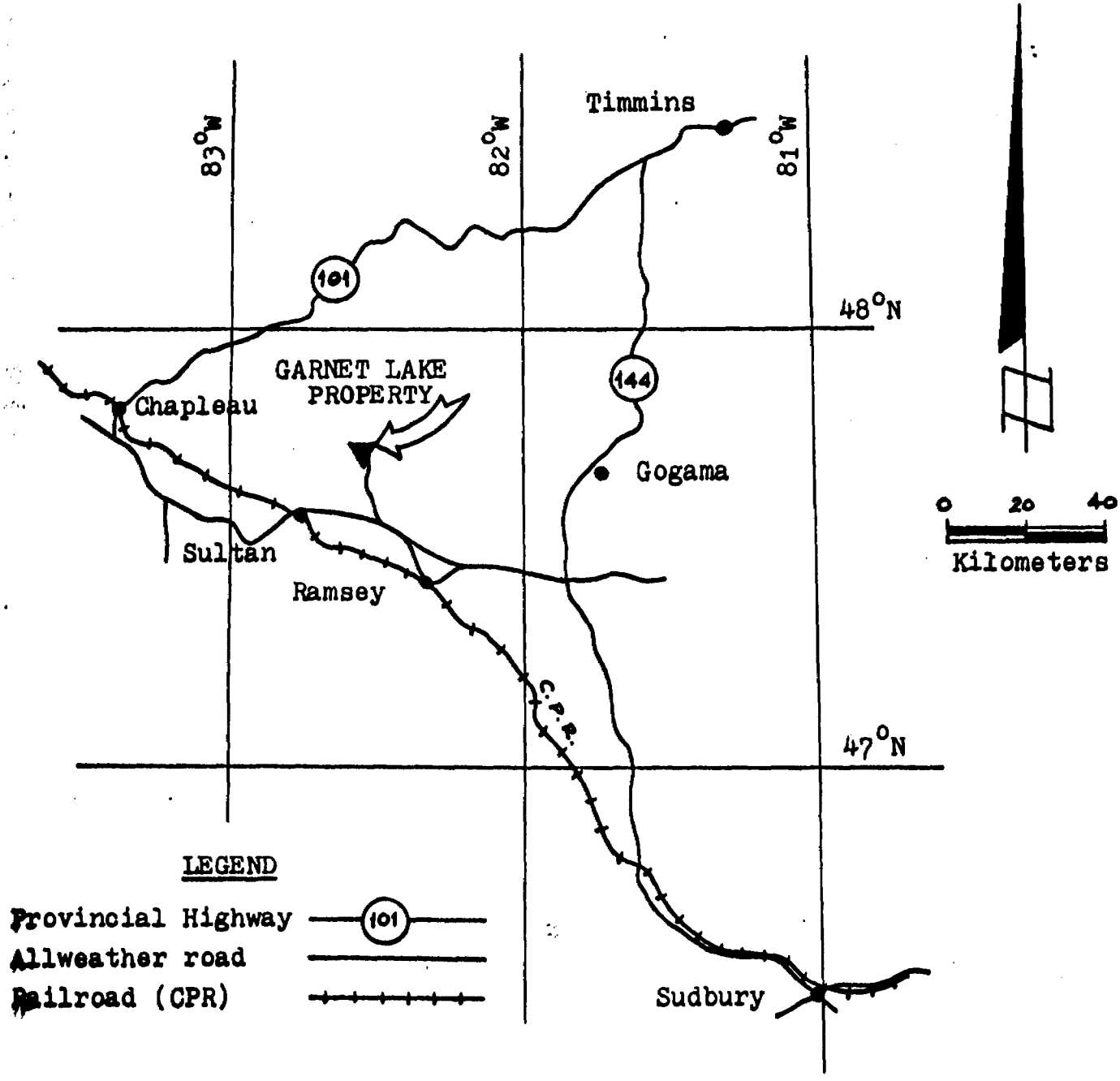


FIGURE 1

GENERAL LOCATION MAP
GARNET LAKE PROPERTY
DISTRICT OF SUDBURY
ONTARIO

To accompany the report for
WESTERN PACIFIC ENERGY CORPORATION

Jan 5/86

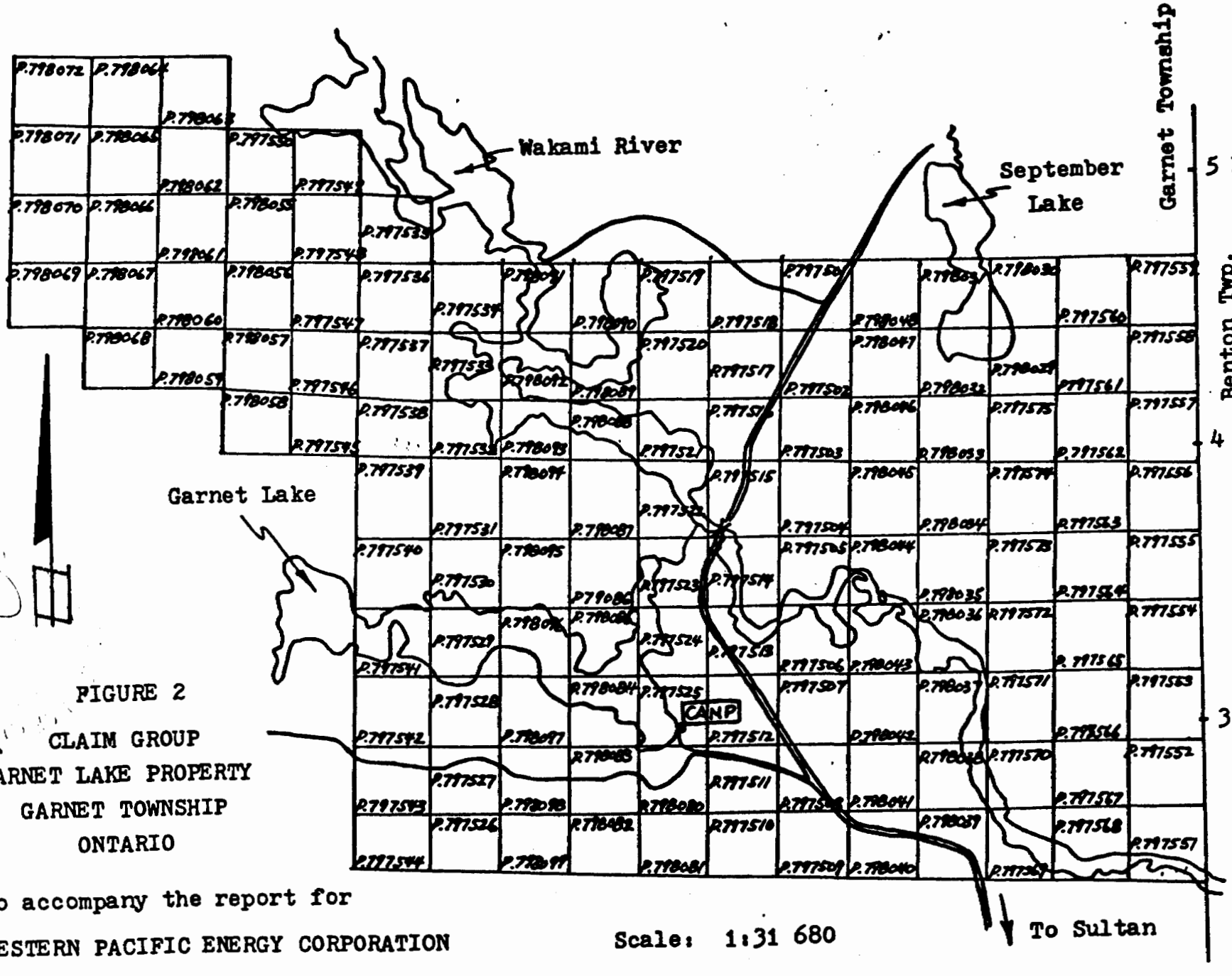


FIGURE 2

CLAIM GROUP

GARNET LAKE PROPERTY

GARNET TOWNSHIP

ONTARIO

To accompany the report for

WESTERN PACIFIC ENERGY CORPORATION

Scale: 1:31 680

The subject claims are well situated between the Jerome Gold Mine to the east and, along the same geological belt, to the west where gold mineralization is being encountered and actively explored by numerous companies. This property is considered to have very good potential for gold mineralization, and an exploration program in two phases has been recommended by L.D.S. Winters, May 15,1984.

Goodwin Mineral Explorations has been commissioned to evaluate and summarize the Phase I results and review recommendations in Phase II as outlined by Winters (1984).

PHASE I EXPLORATION SUMMARY

The Phase I exploration program was initiated in November, 1985 on the Garnet Lake property and included the following:

1. LINECUTTING

   56.22 line miles were cut at 400 foot line spacing with 100 foot station intervals. Five control baselines were established to develop the grid.

2. SURVEYS

   Ground VLF-EM, magnetometer and self-potential surveys were carried out over selected parts of the grid. Data was collected and processed according to standard procedure.

.../3

Recce

3. GEOLOGICAL MAPPING

Detailed geological mapping was carried out over all the claim group noting lithologic, structural, and metamorphic elements. Representative rock samples were collected and mineralized areas prospected and sampled.

Exceptions to the recommended program are basal till sampling and an Induced Polarization survey. The basal till program was not carried out because time and equipment could not be coordinated. A humus/till geochemical survey is not recommended as an alternate due to the erratic character and distribution of soil/till types. The Induced Polarization survey would yield erratic and complex profiles due to sharply variable and often thick overburden. A program of selective VLF-EM surveys was carried out instead.

DISCUSSION

The geological mapping was effective in expanding the database and compiling a more detailed geological profile. Much of the area, however, is covered by extensive sand and gravel outwash deposits and a relatively thin discontinuous morraine. Well altered and mineralized iron formation boulders were found in thin till cover on the western portion of the claim block. Their origin was targeted to the strong linear magnetic anomalies defined by the ground magnetic surveys.

.../4

Many VLF-EM conductors have been identified from the ground surveys. Some have coincident magnetic and/or self potential association while others are very weak and isolated. Eighteen anomalies that have coincident magnetics and/or self potential association were defined. The other VLF-EM anomalies, relatively singular in their source are attributed to conductive overburden and/or buried structural features. Each of the anomalies, be it VLF-EM, magnetic or self potential must be examined on its own merit in conjunction with known geology and previous work history. The self potential survey was very effective in defining anomalous targets in the west and appear to be strongly associated with the iron formation stratigraphy. The geophysical anomalies located in the eastern grid portion are much more complex and appear to be associated with intrusive porphyry bodies yielding anomalous gold values in outcrop exposures.

SUMMARY

The Phase I exploration program as outlined above has been compiled and tabulated for submission to the provincial government to fulfill assessment requirements.

The total monies spent on Phase I amounted to apporoximately $62,000.00. The Phase II exploration program which consists mainly of 5000 feet of diamond drilling to test the numerous targets established in Phase I is estimated at $150,000.00 and includes support and reporting costs. Additional detailed ground geophysics

.../5

has been recommended to fill in where more information is needed as well as some anomaly checking to confirm conductor location when spotting drill holes.

A follow-up program is recommended because with the numerous anomalies,the drill program to date will only test the strongest and/or most apparent targets. This program will involve extensive ground follow-up in the spring of 1986 with stripping and trenching of outcrop areas in anomalous areas and horizontal loop EM surveys for deeper penetration and higher resolution. Favourable horizons and isolated targets may be traced through areas of deep overburden with a basal till reverse circulation drill program at an estimated cost of $60,000.00 for 2000 feet. The follow-up program, including stripping and trenching, geophysical surveys, basal till and/or conventional diamond drilling is estimated to cost $150,000.00.

RECOMMENDATIONS

There are a number of excellent targets that warrant diamond drilling and/or trenching. From the review and assessment of work carried out to date, it is this author's recommendation that Phase II is warranted and should proceed as scheduled. On completion of Phase II drilling, a better understanding of structure, stratigraphy and mineralizing processes will be realized leading to concentration of effort in specific anomalous trends in the follow-up program.

CERTIFICATE

I, John R. Goodwin of R.R. #1, Callander, District of Parry Sound in the Province of Ontario
DO HEREBY CERTIFY THAT:

1. I am a Consulting Geologist.

2. I have practiced my profession since 1969.

3. I am a graduate of Laurentian University in Sudbury, Ontario where I obtained a MSc degree in Geological Sciences.
4. I am a Fellow of the Geological Association of Canada.
5. I am a member of the Prospectors and Developers Association.
6. I have no personal, direct or indirect interest in the Garnet Lake property or any adjacent properties, nor do I hold or intend to hold any shares of Western Pacific Energy Corporation, and I have written this report as an independent consultant.

DATED THIS 5th DAY OF JANUARY, 1986.

JOHN R. GOODWIN

LETTER OF CONSENT

I, John R. Goodwin, consulting geologist residing at R.R. #1, District of Parry Sound, Ontario, do hereby consent to the use of my report on the Exploration Summary, Garnet LaKE Property, Garnet Township, District of Sudbury, Ontario for Western Pacific Energy Corporation dated the 5th day of January, 1986 for statement of material fact and/or prospectus.

Excerpts from this report may only be made with my express permission and referenced according to standard format.

DATED THIS 5th DAY OF JANUARY, 1986.

JOHN R. GOODWIN

John R. Goodwin, MSc
Consulting Geologist

REPORT

ON THE EXPLORATION PROGRAM

ON THE

GARNET TOWNSHIP PROPERTY

ONTARIO

FOR

WESTERN PACIFIC ENERGY CORPORATION

L.D.S. Winter
B.A.Sc., M.Sc., F.G.A.C.
April 15, 1986

TABLE OF CONTENTS

1. INTRODUCTION

The Garnet township property of Western Pacific Energy Corporation is located on the southern arm of the Swayze greenstone belt of northeastern Ontario (Figure 1). The 133-claim property which is mainly overburden covered was acquired for its potential for gold mineralization along a zone of chemical sediments intercalated with metavolcanics and gabbro/diorite intrusives. Exsics Exploration Limited and 101 Explorations Limited carried out a program of line-cutting and geophysics on the property in late-October and November 1985. The following report outlines the work done and presents the results of the geophysical surveys.

2. SUMMARY

Two grids consisting of a total of 9.5 line-miles of baselines and tielines and 46.7 line-miles of cross-lines at 400-foot spacings were cut on the property. Using these grids the property was partially covered by VLF-EM, magnetometer and self-potential (SP) surveys.

The property is underlain by a northwest striking and generally steeply-dipping sequence of metavolcanics, intercalated chemical sediments - iron formation (IF) and diorite/gabbro sills.

In general, the magnetometer survey showed northwest-trending, linear magnetic anomalies coincident with the zone of chemical sediments - iron formation. The general background values are 58,500 to 59,000nT with anomalous values up to 70,000nT.

The VLF survey identified 18 conductors with coincident magnetic anomalies in the area survey. These are considered to be caused by chemical sediment - iron formation horizons. An additional 15 conductors

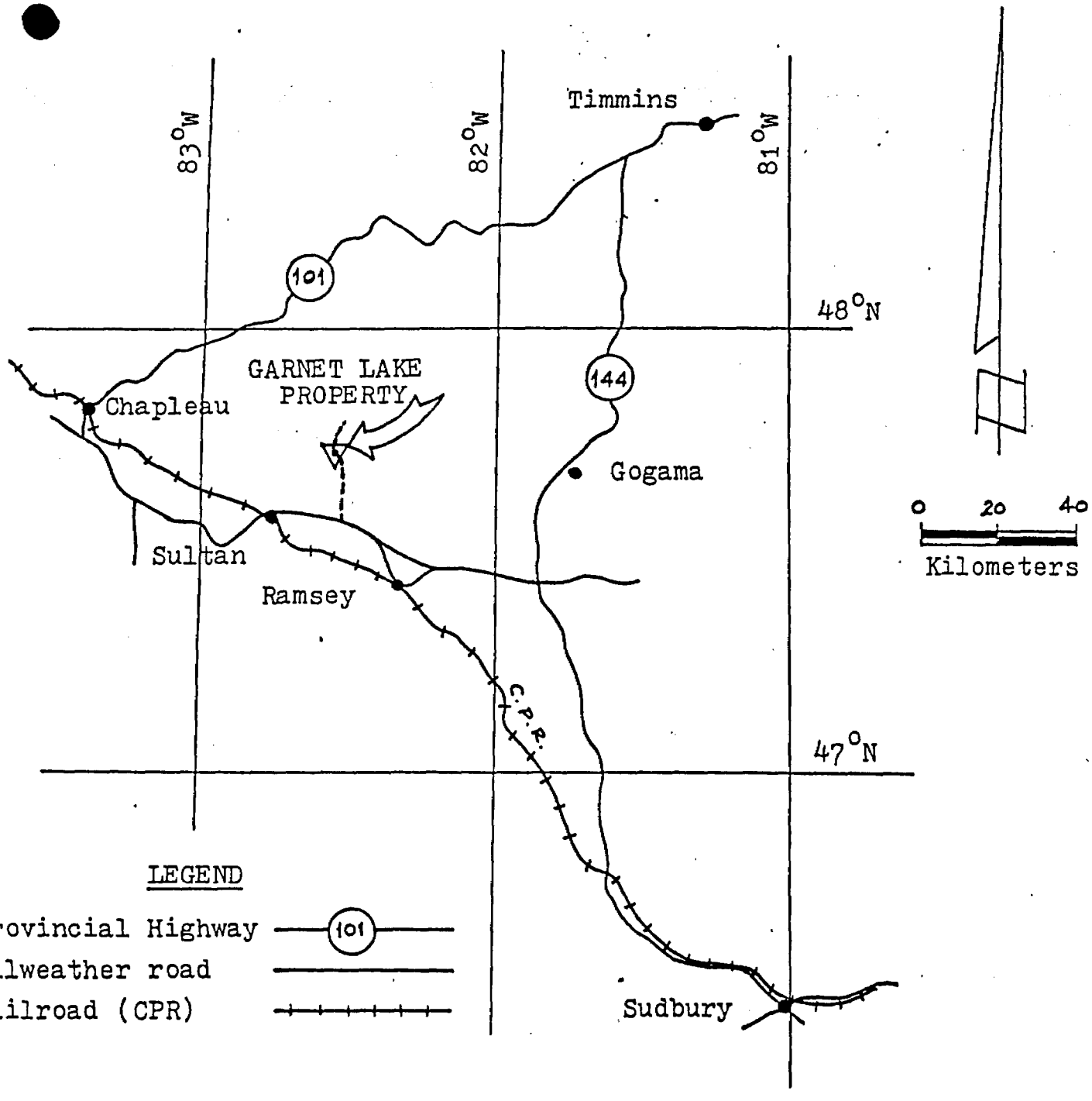


FIGURE 1

GENERAL LOCATION MAP

GARNET TOWNSHIP PROPERTY

ONTARIO

May 1986

without coincident magnetics were also identified and are interpreted to be due to conductive overburden or structural features.

The self-potential survey was done in an attempt to identify sulphide-rich areas within the IF horizons. A number of anomalous areas, generally associated with the zones of high magnetics and VLF conductors, were identified on both grids.

It is considered that the surveys have identified a number of zones of potential economic interest within the main chemical sediment - iron formation horizon. Due to the extensive overburden, further evaluation will have to be by overburden drilling and/or stripping and demand drilling as circumstances require.

In conjunction with this work, completion of the geological mapping and the geophysical surveys over the balance of the claim group is recommended.

Respectfully submitted,

L.D.S. Winter

GEOLOGICAL ASSOCIATION OF CANADA
L. D. S. Winter
FELLOW

L.D.S. Winter
B.A. Sc., M.Sc., F.G.A.C.
April 15, 1986

3. PROPERTY, LOCATION AND ACCESS

3.1 PROPERTY

The property consists of 133 contiguous, unpatented mining claims in the east-central part of Garnet township, District of Sudbury, Porcupine Mining Division, Ontario (Figure 2, after Claim Map M829, Garnet Township).

3.2 LOCATION

The claim group lies in east-central Garnet township, District of Sudbury, Ontario at 47 - 43'N. latitude, 82 - 30' W. longitude approximately 140 km southwest of Timmins, 75 km east of Chapleau and 175 km north of Sudbury, Ontario.

The Wakami River traverses the property from northwest to southeast.

3.3 ACCESS

Approximately 28 km east of Sultan on the Eddy Forest Products road a gravel road leads north 15 km to the property.

4. WORK DONE

During the period October 28, 1985 to November 24, 1985, two grids were cut on the property as shown in Figure 3. Areas within these grids were covered by VLF-EM surveys, proton magnetometer surveys and self-potential surveys.

4.1 LINE CUTTING

Western Grid: A baseline trending 295 was laid out extending northwestward from the Wakami River to cover the northwest part of the claim group. An extension was made to the southeast as far as the area of the bridge across the Wakami River. On the western part of this grid tie-lines were cut along the northern and southern edges of the grid. Picket lines at 400-foot intervals were cut from 54 E to 76 W.

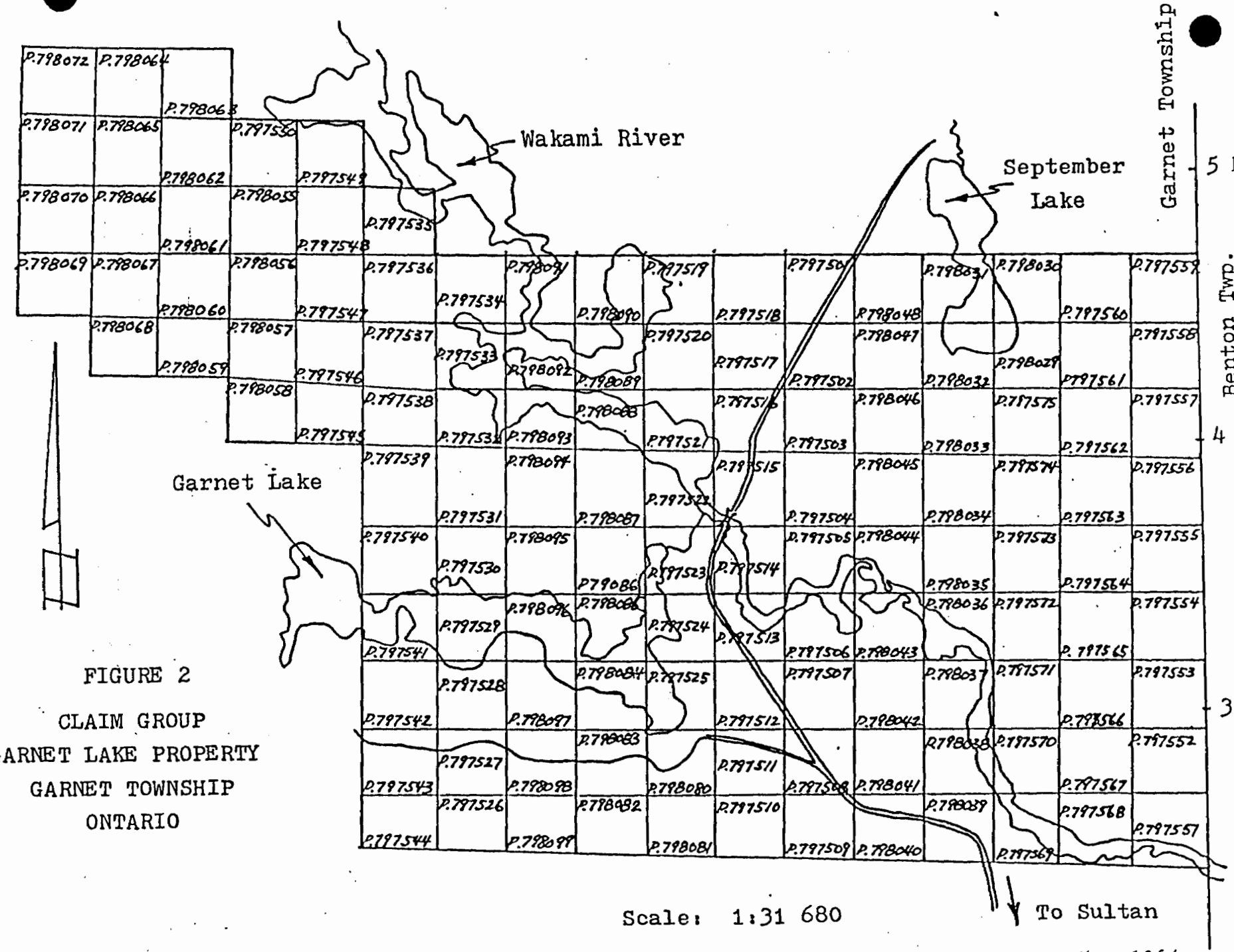


FIGURE 2

CLAIM GROUP
GARNET LAKE PROPERTY
GARNET TOWNSHIP
ONTARIO

Scale: 1:31 680

May 1986

Eastern Grid: An east-west baseline was cut east from the road to the eastern claim boundary with tie-lines at 22N, 22S and 52S.

A total of 9.5 line-miles of baseline and tie-lines were chain-sawed and 46.7 line-miles of cross-lines were cut. Pickets were painted with red fluorescent paint and appropriately numbered.

4.2 MAGNETOMETER SURVEYS

Magnetometer surveys were done over three areas on the property: a western survey from L16W to L76W and 10S to 16N, an eastern survey from L12W to L36E and approximately the baseline to 38S and a southeastern survey from L24E to L36E and 52S to the Wakami River.

The surveys were done with a Scintrex MP-2 proton magnetometer with readings of the total field being taken at 100-foot or 50-foot intervals as conditions dictated. A total of 18.50 line-miles were surveyed.

For the western survey a base station of 58751 nT was established at L48W : BL0+00 and for the two eastern grids a base station of 59352 nT was established at L0+00 : TL22S.

The surveys were conducted according to standard industry procedures with base station tie-ins during the survey of less than 50nT. 58,000nT has been subtracted from all values and the difference plotted and contoured on the three magnetometer surveys maps (1" = 200').

4.3 RADEM VLF-EM SURVEYS

VLF-EM surveys measuring the dip angle only were carried out over the same three grids as were covered by the magnetometer survey. The receiver was a Crone Radem VLF receiver and the transmitter used was Cutler, Maine, U.S.A., NAA at 24.0 kHz. In general, readings were taken at 50-foot intervals and the results are plotted as profiles on the three VLF-EM survey maps (1" = 200'). A total of 19.2 line-miles were surveyed.

4.4 SELF POTENTIAL SURVEYS

Two S.P. surveys were carried out on the property: one over the western grid from L0 to L76W and 10S to 10N and one over the eastern grid from L18E to L36E and north of the south tieline 22S.

The survey was done with a potentiometer, two porous pots containing saturated copper sulphate solution and 2000 feet of wire. For the western grid a base station of OmV was established at L0: and the baseline was surveyed to establish the potential at the intersection of each picket line and the base line. The potential difference between the lead plot and this base line/picket line station was then read every 50 feet along the cross lines. The potential difference for each station relative to the base station was then calculated and the results were plotted as profiles in the S.P. survey map for the western grid (1" = 200').

For the eastern grid, a gradient mode was used with a pot spacing of 100 feet. The potential difference was determined between each two adjacent stations and the potential difference relative to the base line was then calculated. The results are plotted and shown as profiles on the S.P. survey map of the eastern grid (1" = 200').

A total of 14.70 line-miles was surveyed on the two grids.

5. RESULTS

Many VLF-EM conductors were identified by the surveys. Some have coincident magnetic and/or S.P. association and are considered to be due to conductive zones in the bedrock while others are weak and isolated. Eighteen anomalies with coincident magnetic and/or S.P. association were defined. An additional 15 VLF-EM anomalies are attributed to conductive overburden and/or buried structural features.

The S.P. survey was effective in defining anomalous targets on the grids where they appear to be related to the iron formation horizons.

The geophysical anomalies on the eastern grid are less straight forward than those in the west. The complexities may be due to the intrusion of gabbro/diorite bodies or porphyries known to occur in the area.

Brief comments on the results obtained in each of the surveys are presented below and the anomalous zones are indicated on the appropriate maps.

5.1 MAGNETOMETER SURVEYS

5.2.1 MAGNETOMETER SURVEY - WESTERN GRID

The survey shows a general trend of 295 parallel to the volcanic stratigraphy. The northern half of the grid shows values of 500nT to 3000nT above the base of 58,000nT in generally broad magnetic ridges and depressions with a 295 trend. The southern part of the surveyed area shows linear magnetic highs and lows with peak values up to 11,254nT above the base of 58,000nT.

The lower values on the northern part of the grid are considered to represent metavolcanic flows and associated gabbro/diorite intrusions while the strongly magnetic zones are considered to be magnetite iron formation.

5.1.2 MAGNETOMETER SURVEY - EASTERN GRID

The magnetometer survey shows a dominant 295 trend in this area also. The northwestern half of the area shows low values 600-800nT above the 58,000nT base. The southern half shows three narrow linear 295 trending magnetic ridges up to 12,828nT separated by areas with values of 1,000nT.

The magnetic highs are considered to represent iron formation and/or gabbro/diorite sills with the lower values representing mafic metavolcanics.

5.1.3 MAGNETOMETER SURVEY - SOUTHEASTERN GRID

A generally 295 trending area of moderate magnetics in the northern part of the grid and a 295 trending zone of high magnetics, up to 8125nT above the 58,000nT base in the southern part adjacent to the Wakami River are separated by a central area with values close to 1,000nT.

It is considered that the northern area of moderate magnetics may represent a gabbro/diorite intrusive, while the southern one would be due to magnetite iron formation. Metavolcanics are considered to lie between the two areas of elevated magnetics.

5.2 RADEM VLF-EM SURVEYS

5.2.1 RADEM VLF SURVEY - WESTERN GRID

The VLF conductor axes are indicated on the map of this grid. In general, the conductors are of moderate strength with two trends being present. One trend is 295, generally associated with the magnetic anomalies. The cross-overs are well defined and give a 2 to 3 line conductor.

The second trend is approximately east-west. These conductors are weaker and are present on a number of adjacent lines.

The first set of conductors is considered to be conductive material associated with the iron formation, possibly sulphides and/or graphite. The second set of longer conductors may be due to east-west trending faults or shear zones.

5.2.2 RADEM VLF.SURVEY - EASTERN GRID

This survey showed a series of 5 parallel conductors trending at about 295 across the property. In general, the conductors are present on a number of adjacent lines. The two conductors in the central part of the grid are associated with elevated magnetics and are considered to be sulphide or graphite-rich zones associated with iron formation. The three conductors in the northern part of the grid are in an area of flat magnetics and may represent conductive zones, sulphides and/or graphite, intercalated with metavolcanics.

5.2.3 RADEM VLF SURVEY - SOUTHEASTERN GRID

Two, two-line conductors associated with elevated magnetics are present in the southern part of the grid just north of the Wakami River. These conductors are considered to be sulphides and/or graphite associated with magnetite iron formation.

5.3 SELF POTENTIAL SURVEYS

5.3.1 SELF POTENTIAL SURVEY - WEST GRID

A number of anomalous zones were indicated by this survey. In general, the anomalies trend at 295 although there are two anomalies in the eastern part of the grid trending east-west. The anomalies trending at 295 are associated with the area of higher magnetics in the southern part of the grid and are considered to represent sulphides and/or graphite associated with the iron formation.

The two east-west trending anomalies may be due to fault zones.

Many of the S.P. anomalies are coincident with the VLF anomalies.

5.3.2 SELF-POTENTIAL SURVEY - EAST GRID

Five anomalous zones were indicated by the survey in the southern half of the grid. These anomolies generally trend at 295° parallel to the lithologic trends. Two are parallel and coincident with VLF and magnetic anomalies, two are coincident with VLF anomalies that have no

magnetic expansion and one area in the extreme southeastern corner of the grid contains a number of anomalous zones.

6. CONCLUSIONS AND EXPLORATION POTENTIAL

On the western grid the surveys have identified an area south of the base line of generally elevated magnetics with the magnetic highs being in narrow linear zones with a strike of 295. To the north the magnetic values show generally lower values with broad ridges and depressions trending 295.

For the most part the VLF-EM and S.P. anomalies are associated with the area of elevated magnetics and show the same 295 trend.

The northern section of the grid is considered to be underlain by mafic metavolcanic flows and associated gabbro/diorite intrusives while the southern section is considered to be underlain by magnetite iron formation with intercalated sulphide and/or graphitic horizons as represented by the VLF and S.P. anomalies.

East-west trending VLF and S.P. anomalies are considered to represent fault or shear zones cutting the volcanic pile at a low angle.

For the eastern grid the surveys have identified a similar pattern to that in the western grid. In general from 10+00S to the Wakami River a number of linear 295 trending magnetic ridges were outlined, often with associated VLF-EM and S.P. anomalies.

North of 10+00S the magnetics are generally flat with values between 600-800nT above the 58,000nT base. Within this area 295 trending VLF-EM and S.P. anomalies are considered to represent conductive sulphide-rich or graphitic horizons intercalated with mafic metavolcanic flows.

It is considered that the exploration potential is related to the zones of magnetite iron formation and associated conductive horizons on both the east and west grids.

Also, it is considered that the east-west trending conductive zones on the western grid should be further evaluated. If they indicate later structures they may represent areas of economic interest.

7. RECOMMENDATIONS

To better define targets of economic potential the following approach is recommended.

1. Completion of geological mapping and correlation with the ground geophysics.
2. Completion of the magnetometer and VLF-EM surveys over all the grids.
3. Geochemical humus/soil surveys in appropriate areas to assist in defining areas favourable for economic mineralization, if overburden depths are shallow.
4. Overburden drilling of areas of deep overburden and stripping in areas of shallow overburden.
5. Diamond drilling.

Respectfully submitted,

L.D.S. Winter

L.D.S. Winter
B.A.Sc., M.Sc., F.G.A.C.
April 15, 1986

GEOLOGICAL ASSOCIATION OF CANADA
L. D. S. Winter
FELLOW

PERSONNEL

Line-Cutting	Period	Days
101 Explorations Ltd. Timmins, Ontario 6 men x 25 days	Oct. 28 - Nov. 24, 1985	150
Geophysics		
Exsics Exploration Limited P.O. Box 1880 Timmins, Ontario P4N 7X1		
J.R. Grant Geophysical Technologist	Nov. 5 - Nov. 30, 1985	12
Wayne Pearson Geophysical Technician	Nov. 5 - Nov. 12, 1985	6
R. Collin Geophysical Technician	Nov. 5 - Nov. 30, 1985	12
Report and Drafting		
L.D.S. Winter 1849 Oriole Drive Sudbury, Ontario P3E 2W5	Dec. 28, 1985 - Jan. 6, 1986 Apr. 10, 1985 - Apr. 15, 1986	6 5
Word Processing		
Laila M. Bergquist 1275 Main Street W. North Bay, Ontario P1B 2W7		1

CERTIFICATE OF QUALIFICATION

I, Lionel Donald Stewart Winter do hereby certify:

1. that I am a geologist and reside at 1849 Oriole Drive, Sudbury, Ontario, P3E 2W5,
2. that I am a Fellow of the Geological Association of Canada,
3. that I graduated from the University of Toronto in Mining Engineering in 1957 with a Bachelor of Applied Science and from McGill University, Montreal in 1961 with a Master of Science (Applied) in Geology,
4. that I have practised my profession continuously for 25 years,
5. that my report on the Garnet Township property is based on my knowledge of the work as it was being done and the office work for the project.

L.D.S. Winter
B.A. Sc., M.Sc., F.G.A.C.
April 15, 1986

L.D.S. Winter

GEOLOGICAL ASSOCIATION OF CANADA
L. D. S. Winter
FELLOW

63.4733

2 of 2

DIAMOND DRILL LOGS

GARNET PROPERTY

for

WESTERN PACIFIC ENERGY CORP.

OM 85-198

DIAMOND DRILL LOG

PROJECT: Garnet — COST CODE NO.: 1414

COMPANY: Western Pacific Energy Corp.

HOLE NO. G-85-1

LOCATION: L32 + 00 W
3 + 00 S

AZIMUTH: N 30 E

DIP AT COLLAR: -45 — LOGGED BY: Phil Brown

DRILLED BY: Longyear Canada Incorporated — DATE: December 8, 1985

LOG

0 - 10 CASING

10 - 35.3 BANDED IRON FORMATION

Red and whitish chert bands alternating with black magnetite bands. Generally black in colour. Very minor brecciation and qtz veining. Banding generally 80 to C/A but varies from 70 to 80 to C/A. Some folding seen with the brecciation. Pyrite content low <2% as cubes and some in clusters and seams. The latter has pyrrhotite plus minor chalcopyrite.

19 - 35.3: Many jasper bands.

At 25.5 1 1/2" Qtz vein 15 to C/A with chlorite and white py on contacts.

35.3 - 69.5 DIORITE

Massive medium green volcanics, medium grained stress fractures 25 to C/A infilled with chlorite. Minor pyrite.

61 - 63: Qtz veins + pyrite + chlorite 45 to C/A

69.5 - 90.0 BANDED IF

Contacts and banding 80 to C/A
Pyrite in clusters of cubes or separate cubes also strataform as seams, same crosscutting seams, also pyrrhotite. Some sphalerite.
At 85' 1/4" Q.V. + Chlorite 45 to C/A
At 85.5' 1/4" Q.V. 30 to C/A
At 87' 1/4" Q.V. 30 to C/A
Pyrrhotite becoming dominant > pyrite

90 - 103 TUFF?

Grey-green conglomeratic (Tuff?)

103 - 104 BANDED IF

Pyrrhotite no pyrite <1%

104 - 329 DIORITE

Massive fine grained med-green scattered minor Py, Po
195 - 216 Qtz carb veining at all angles - curved - possibly flow top.
326 - 327 purplish Qtz vein 45 to C/A

329 - 453.5 CHEMICAL CHERT GRADING TO I.F.

Po dominant sulphide with minor Cpy, some Zns.
Little folding minor fractures of chert bands.
Banding 75 to C/A
323.5 - 331: strongly magnetic
350 - 357: strongly magnetic with much Po in seams and as blobs 1 to 3%.
370 - 372 strongly magnetic + Po +Py
385 - 390 magnetite I.F. banding 75 to C/A; enough Po for VLF conductor...387 -
387.5 30% Po plus Py.
405 - 413 magnetic I.F. Heavy Po enough for a V.L.F. conductor.
414 - 1/2" Py seam + Zns
415 - finely banded chert
416 - 417 fractured and unfilled with Py + Zns
420 banding 55 to C/A
420 - 437: heavy Po and Py at seams and agglomerations.
421 - 453 strongly magnetic.

453.5 - 645 DIORITE

Fine grained minor Py
467 - 467.6 pinkish Qtz vein 50 to C/A

645 END OF HOLE

HOLE NO. G-85-1

CORE SAMPLES

SAMPLE NUMBER	FROM	TO	SAMPLE LENGTH	ASSAY - ppm Au	Ag
3201	10	15		<0.01	
3202	15	20		<0.01	
3203	20	23		<0.01	
3204	23	24		<0.01	
3205	24	29		<0.01	
3206	29	34		<0.01	
3207	34	35.5		<0.01	
3208	61	63		0.02	
3209	69.5	74.5		<0.01	
3210	74.5	77.5		<0.01	
3211	77.5	78.5		<0.01	
3212	78.5	81.5		<0.01	
3213	81.5	86		<0.01	
3214	86	90		<0.01	
3215	195	200		0.02	
3216	200	205		<0.01	
3217	205	210		0.01	
3218	326	327		<0.01	
3219	335	338		<0.01	
3220	338	341		<0.01	
3221	347	352		<0.01	
3222	352	357		0.01	
3223	370	375		<0.01	
3224	385	390		<0.01	
3225	405	410		<0.01	
3226	410	415		<0.01	
3227	415	420		<0.01	

HOLE NO. G-85-1

CORE SAMPLES

SAMPLE NUMBER	FROM	TO	SAMPLE LENGTH	ASSAY - ppm Au	Ag
3228	420	425		<0.01	
3229	425	430		<0.01	
3230	430	435		<0.01	
3231	435	440		<0.01	
3232	440	445		<0.01	
3233	445	450		<0.01	
3234	450	453		<0.01	
3235	466.5	467.5		<0.01	
3236	588	593		<0.01	

DIAMOND DRILL LOG

PROJECT: Garnet — COST CODE NO.: 1414

COMPANY; Western Pacific Energy Corp.

HOLE NO. G-85-2 — LOCATION: L48 + 00 W
6 + 30 S

AZIMUTH: N 30 E — DIP AT COLLAR: -45

LOGGED BY: Phil Brown

DRILLED BY: Longyear Canada Incorporated — DATE: December 12, 1985

LOG

0 - 10 CASING

10 - 55.7 DIORITE
Med green,med grained flow some carb veining + Po and Py. At 50' small quartz vein + Zns several other stringers with this mineralization.

55.7 - 81.5 BANDED IRON FORMATION
Black banded 80-85 to C.A. Sulphide mainly Po but some Py in bands to 1/4". Chert bands and jasper at 60'. Py + Po approximately 2-5% with the Py as cubes. At 58' 1/4" quartz carb vein 30 to C.A. + chlorite. Py developed parallel to vein. Minor brecciation.

81.5 - 85.0 DIORITE
Fine grained, Po, Py.

85.0 - 86.3. BANDED IRON FORMATION

86.3 - 88.5 CHERT BRECCIA
No sulphides.

88.5 - 88.8 IRON FORMATION
Black and cube Py.

88.8 - 306.5 DIORITE
Fine grained becoming medium grained and medium green color. Fine Po, Py <1/2%.
138.5 - 139.0: Quart vein 35 to C.A. + Po, minor Zns + chlorite.
143.0 - 151.0: Fine grained + quartz carb veining.

148.0 - 149.5: Quartz carb vein minor Zns, PbS, Cpy.
185.0 - 186.0: Quartz carb vein + smokey quartz.
190.0 : Quartz vein + 10% Py.
196.0 - 200.0: Quartz carb vein down core, minor Cpy Zns Po. at 219', slips 45 to C.A. + Po, Py.
255.0 Quartz carb veining Py, Po and Zns
269.0 - 270.0: 1/2" quartz carb vein parallel to core minor Cpy, Zns, Py, Po.
292.0 - 293.0: 2" quartz vein 20 to C.A.
297.0 - 306.5: Quartz carb veining + Py, Po.

306.5- 344 BANDED IRON FORMATION

Cherty iron formation plus tuff bands plus magnetite seams. Py, Po minor Cpy present 50° to C.A. seams. Sulphides 5% to 20% in places.
Bedding becomes 75 to C.A., brecciation, small slips present. Quartz carb veining plus remobilised and recrystallised cubic Py.
328.0 - 333.0: Py, Po almost massive.
336.0 - 337.0: Chert band + Py, Po.
342.5 - 343.5: Heavy Py seams.

344.0-359.5 TUFF

Medium green + Py 55 to 60 to C.A. bedding.

359.5- 363 IRON FORMATION

Chert magnetite banded iron formation.

363. - 369 TUFF

As above + Py.

369 - 395.5 BANDED IRON FORMATION

Chert magnetite iron formation some Po mainly Py in cubes to 1/4". Banding 65 to C.A. at 395'.
391.0 - 393.0: Fine grain tuff?

395.5 - 405 DIORITE

Medium grained, medium green, minor Py, Po.

405 END OF HOLE.

HOLE NO. G-85-2 CORE SAMPLES

SAMPLE NUMBER	FROM	TO	SAMPLE LENGTH	ASSAY - ppm Au	Ag
3237	56	60		<0.01	
3238	60	65		<0.01	
3239	65	70		<0.01	
3240	70	75		<0.01	
3241	75	80		<0.01	
3242	80	82		<0.01	
3243	148	150		<0.01	0.4
3244	185	186		<0.01	
3245	196	200		<0.01	
3246	297.5	298.5		<0.01	
3247	302.5	307		<0.01	
3248	307	312		0.02	
3249	312	317		<0.01	
3250	317	319.5		<0.01	
3251	319.5	324.5		<0.01	
3252	324.5	328		<0.01	
3253	328	333		<0.01	
3254	333	338		<0.01	
3255	338	341		<0.01	
3256	341	344		<0.01	
3257	344	349		<0.01	
3258	349	354		<0.01	
3259	354	360		<0.01	
3260	360	363.5		<0.01	

HOLE NO. G-85-2

CORE SAMPLES

SAMPLE NUMBER	FROM	TO	SAMPLE LENGTH	ASSAY - ppm Au	Ag
G86951	363.5	368.5		<0.01	
G86952	368.5	373		<0.01	
G86953	373	378		<0.01	
G86954	378	383		<0.01	
G86955	383	388		<0.01	
G86956	388	390.5		<0.01	0.3
G86957	390.5	393		<0.01	
G86958	393	395.5		<0.01	

DIAMOND DRILL LOG

PROJECT: Garnet Township — COST CODE NO.: 1414

COMPANY: Western Pacific Energy Corporation

HOLE NO. G-85-3 — LOCATION: L72 + 00W 8 + 00S

AZIMUTH: N 30 E — DIP AT COLLAR: 45

LOGGED BY: Phil Brown — DATE:: December 17, 1985

DRILLED BY: Longyear Canada Incorporated

LOG

0 - 15 CASING

15 - 55 DIORITE

Med grained med green carb altered. Many qtz cb stringers, 45 to c/a mainly but at all angles. Cubic py tarnishing brassy yellow especially 23-28 minor po present. Py 1/2 to 1%but heavier 35-40.

55 - 60 BANDED IF

Black banded 5-10% py in places.

60 - 69 TUFF?

Fine grained pale green with dark green chlorite developed on factures - may be narrow flow, chilled.

69 - 171 BANDED IF

Magnetite chert bands, exhalative type deposition py beds, chemical chert, graphite on some bedding planes. Banding 80 to 85 to c/a. Py 2% to 60%. Some Po, cpy ZnS. Small qtz cb veins at all angles cutting brecciated chert bands.
876-78 heavy sulphides (75%).
94 Zns for 3/4".
85-87, 94-95, 107-108 green chert. Alternate light and dark bands give rock a Zebra look.
109-122 heavy py.
102 magnetite IF with little py
132-133 some jasper
(137.5-142.5 py present)

171 - 323 DIORITE

Medium green, medium grained, minor py, carb. veining.

323 - 393 GABBRO

medium to coarse grained and massive. Po and py scarce.

331-332 three qtz veins < 1/4" 45 to C/A minor py.
338-339 1/2" Qtz vein 45 to C/A with carb alteration.
346-347 1/2" QV with minor py
355-356 2" QV with carbonate & minor py, po.
377-378 1" QV + carb 60 to C/A
392-393 Epidote + qtz shearing at contact. Some minor slips & shears.

393 - 465 DIORITE - FINE GRAINED

407-420 qtz carb veining & shearing 45 to 60 to C/A, minor py & po.
455 - minor hematite staining with carbonate.

465 END OF HOLE.

HOLE NO. G-85-3

CORE SAMPLES

SAMPLE NUMBER	FROM	TO	SAMPLE LENGTH	ASSAY - ppm Au	Ag	Cu	Zn
G86959	22.5	27.5		<0.01			
G86960	35	40		<0.01			
G86961	55	60		<0.01			
G86962	65	67		<0.01			
G86963	69	74		<0.01			
G86964	74	79		0.04	1.8	1325.0	
G86965	79	84		<0.01			
G86966	84	89		<0.01			
G86967	89	94		<0.01			32.0
G86968	94	99		<0.01			600.0
G86969	99	104		<0.01			
G86970	104	109		<0.01			
G86971	109	114		0.01			
G86972	114	119		<0.01			
G86973	119	122		<0.01			
G86974	137.5	142.5		<0.01			

DIAMOND DRILL LOG

PROJECT: Garnet — COST CODE NO.: 1414

COMPANY: Western Pacific Energy Corp.

HOLE NO: G-85-4 — LOCATION: 0 + 50S L76 + 00 W

AZIMUTH: N 30 E — DIP AT COLLAR: 45

LOGGED BY: Phil Brown — DATE: January 13, 1986

DRILLED BY: Longyear Canada Inc.

LOG

0 - 15 OVERBURDEN

15 - 35 badly broken I.F. oxidized and weakened to 46'.

CASING TO 45'

46 - JASPER I.F.

banding generally 65 to C/A at 75'. Becoming 75 at 90'. Contorted bedding in places - brecciated in places. Red jasper alternates with 1/2" white chert bands and also zones of grey and black IF + py + carb. Red jasper IF has little sulphide, also graphitic - e.g. 591

grey zones 53-56
62-63
65-67 Grey begins to predominate 65' onwards
75-85
87-96 (67-70 magnetic - 80% magnetite 20% jasper)

py banding - 54-56
73-73.5
78-86 3" massive dirty py 78-79
87-91
94.5-95.5

95.5 - 96.5 Red, 100-101 Red - also magnetic

Brecciated chem chert sequence magnetic sections rare graphitic zones + py

Contorted bedding but generally 60 at 100' to C/A
60 at 130' to C/A
50 at 140' to C/A

Fine py all through

109-110 graphitic + 15% py

slips + qtz cb 90 to bedding + py + chlorite

118-119 graphitic + py
127-128 graphitic + py
131-137.5 graphitic + py bedding 50' to C/A
(136-137 50% py) NB Minor c py)
139-140 50% py

140 - Jasper IF - 148

146-147 50% py
149-158 graphitic; bedding 40 to C/A (where graphitic) and short sections heavy py

py 5% to 10% and short sections heavy py of which much is remobilized and recrystalized cubes in veins, 90 to bedding.

173 - 198 magnetic

Red and black alternation, much brecciation and py, also chlorite

165-175 heavy py some almost solid py sections

190 bedding, 55 to C/A
194-5 py
196-7 py graphitic
199-202 py
202 - 205 magnetic red chert and magnetite bands
215, 40 to C/A
217, 35 to C/A
219-220 graphitic, broken
220-225 magnetic red chert + qtz + cpy in slips
234, 30 to C/A
234 graphitic, pyritic chert bands
235-240 jasper red + magnetite
247-248 jasper red + magnetite
240-246 heavy py, cubes (recrystalized), vuggy qtz veining
240 - 35 to C/A
247 - 248 Red jasper bands with magnetite bands
253-4 graphitic + py
256-264 red/magnetic, little py
325 - 30 to C/A
321.5 1" QV 70 to C/A, some carb (creamy) minor chlorite
326-327.5 small dk green fine gr diab dike or tuff band. Continues alternating chert graphitic, etc., fewer sulphides

350 - mainly grey graphitic
365 - heavy graphitic + py bands 30 to C/A

Tuff band mainly 70 to C/A
375-391 very heavy py some cpy

banding 30, 45, 70 to C/A

after 391 sulphides, less graphite, more chert

Jasper again at 410 - 35 to C/A and 70 to C/A

415 END OF HOLE

HOLE NO. G-85-4

CORE SAMPLES

SAMPLE NUMBER	FROM	TO	SAMPLE LENGTH	ASSAY - ppm Au	Ag
4001	46.5	47.5		<0.01	
4002	52.5	57		<0.01	
4003	57	58.5		<0.01	
4004	60.5	61.5		<0.01	
4005	65	67		<0.01	
4006	73	74		<0.01	
4007	74	75.5		<0.01	
4008	75.5	78.5		<0.01	
4009	78.5	79.5		<0.01	
4010	79.5	81.5		<0.01	
4011	81.5	85		<0.01	
4012	85	87		<0.01	
4013	87	88		<0.01	
4014	88	91		<0.01	
4015	91	96		<0.01	
4016	98	100.5		0.02	
4017	118	120		0.03	
4018	131	133		0.02	
4019	133	136		0.01	
4020	136	137.5		0.02	
4021	137.5	139		0.01	
4022	139.5	140		0.02	
4023	144.5	150		0.01	
4024	150	155		<0.01	
4025	155	156.5		<0.01	
4026	164	169		<0.01	

CORE SAMPLES

SAMPLE NUMBER	FROM	TO	SAMPLE LENGTH	ASSAY - ppm Au	Ag
4027	169	173		<0.01	
4028	173	175		0.01	
4029	175	180		<0.01	
4030	180	185		<0.01	
4031	185	190		<0.01	
4032	190	195		<0.01	
4033	195	200		<0.01	
4034	200	202		<0.01	
4035	211.5	214		<0.01	
4036	220	225		<0.01	
4037	240	244.5		<0.01	
4038	244.5	246.5		<0.01	
4039	255	257.5		<0.01	
4040	264	265		<0.01	
4041	270	273		<0.01	
4042	370	375		<0.01	
4043	375	380		0.02	
4044	380	385		0.01	
4045	385	390		<0.01	
4046	390	395		0.02	
4047	395	400		0.01	

DIAMOND DRILL LOG

PROJECT: Garnet — COST CODE NO.: 1414

COMPANY: Western Pacific Energy Corp.

HOLE NO: G-85-5 — LOCATION: 72 + 00W 3 + 00 N

AZIMUTH: N 30 E — DIP AT COLLAR: 45

LOGGED BY: Phil Brown — DATE: January 19, 1986

DRILLED BY: Longyear Canada Inc.

LOG

0 - 205 Hole lost cave?? 2' past gouge. Rock either side fully competent.

0 - 10 CASING

10 - 90 MEDIUM GREEN DARK GREEN GABBRO
minor qtz cb stringers mainly 40-60 C/A, minor py

24-25.5 fine gr + more py
46-47 pinkish or orange qtz ch vein at 47 blue galine spot becoming finer grained 60'
70-71 rusty fracture 45 to C/A
77-79 large patches of py + qtz cb stringers (86-90 rusty vuggy)

90 - 205 IRON FORMATION
IF banded strongly magnetic intercalated chert/magnetic banding mainly 50 to C/A but up to 80. Chert white to grey and some green serpentine with minor carbonate; chert brecciated with fine qtz stringers py low < 1% some banding.

105 - py content 5% to 10%
113 white to cream carbonate present (minor)
129-130 tuff 60 to C/A
130-136 white chert carb (creamy) sections + py
135.5-149 very heavy py and 151-153
136-140 > 50% of rock, banding
50-60 to C/A, very minor cpy

143-4 tuff band
150-151 broken fault?
155.5-156 tuff band
156 Jasper bands - 165
177 - much jasper IF
165-176 heavy py 3-5% banding 65-70 to C/A
186-185.5 tuff
banding 60 to C/A 182 at 195 dk green band + lower py cubes 1/4
203 - mud seem 6"

205 END OF HOLE

NO CORE SAMPLES

DIAMOND DRILL LOG

PROJECT: Garnet — COST CODE NO.: 1414

COMPANY: Western Pacific Energy Corp.

HOLE NO: G-85-5b — LOCATION: 72 + 00 W 3 + 00 N

AZIMUTH: N 30 E — DIP AT COLLAR: 45, 40 at 290

LOGGED BY: Phil Brown — DATE: January 21, 1986

DRILLED BY: Longyear Canada Inc.

LOG

HOLE NO. G-85-5b

0 - 7 CASING (4 s OF #5) 172 w, 3 n

0 - 90.5 GABBRO

90.5 - 275 BANDED IF

strongly magnetic, banding mainly 60-70 to C/A

90.5-93 brecciated contact area also rusty.

96-97 few py bands, cherty bands greenish, minor carb, py 2% but up to 5%, e.g. 107-114. Strongly magnetic. Banding becoming 50 to C/A some slump folding 30 to C/A

126.5-127.5 - qtz + carb
127.5-129 Tuff
129-135.5 carb zone (creamy carb + py + speck cpy)

Banding 55-60 to C/A @ 130'

? VLF

135.5-147 40% py sedimentary exhalative + chert + tuff.
143-151 carb altn + py 5% +
55 to C/A at 155'

after 160 less py except 166-171 - minor carb + py strongly magnetic

160-166 Jasper
176 - 6" sludge (hole)
189-190 some carb + chert + py

Bright red jasper gets darker red from 210' on.

225-228 slump bedded py bands + mudstone mixed with magnetite bands
237.5-244 pyritic mudstone
244-275 intercalated tuff / chem seds / chert, etc.

* Sample

265-7 carb veining + cpy - flow top? vuggy

275 - 323 CRYSTAL TUFF

pale green and brownish hue, pyrite in places

283-6 pale colour carb alteration
298-299 4" heavy py
300-312 Jasperoid IF mixed with tuffs (magnetic)
312 - much creamy carb crystal
318-323 - magnetic IF

323 - 340 FELSP PORPHYRY
* no py 15' vuggy flow top grey greenish tint

340 - 368 INTERMIXED TUFF
intermixed tuff, chem chert (soft green) and porphyry

368 - 409 FELSP PORP
1/4 to 1/2 felsp white

393-4 vuggy and rusty
396-9 vuggy and rusty

409 - 465 IF
rusty contact chem chert IF some yellow creamy carb sections 5% py
415-16
419-23 heavy py (30%)
430-446 red sections jasper
446-54 graphitic and pyritic sections
456-60 red jasper sections
462-4 small qtz veins 90 to bedding + chlorite and carb no sulphides

465 END OF HOLE

TEST 400' 40.

HOLE NO. G-85-5b

CORE SAMPLES

SAMPLE NUMBER	FROM	TO	SAMPLE LENGTH	ASSAY - ppm Au	Ag
4048	90.5	95	4.5	.01	
4049	95	100	5	<.01	
4050	100	103	3	<.01	
4051	103	106.5	3.5	<.01	
4052	106.5	110.5	4.0	<.01	
4053	110.5	115.0	5	<.01	
4054	115	120	5	<.01	
4055	120	123	3	<.01	
4056	123	127	4	<.01	
4057	127	129	2	<.01	
4058	129	132	3	<.01	
4059	132	135.5	3.5	<.01	
4060	135.5	140	4.5	.02	
4061	140	142.5	2.5	<.01	
4062	142.5	145	2.5	<.01	
4063	145	148	3.0	<.01	
4064	148	152	5	<.01	
4065	189	192	3	<.01	
4066	410	415	5	.01	
4067	415	418	3	.02	
4068	418	423	5	.19	
4069	423	426	3	<.01	
4070	426	431	5	.01	
4071	431	436	5	.01	
4072	436	441	5	<.01	
4073	441	446	5	<.01	
4074	446	450	4	.01	
4075	450	454	4	.05	
4076	462	465	3	<.01	

DIAMOND DRILL LOG

PROJECT: Garnet

COST CODE NO.: 1414

COMPANY: Western Pacific Energy Corp.

HOLE NO: G-85-6

LOCATION: L60W 0+00 due N

AZIMUTH: Due N

DIP AT COLLAR: -45
300' 45

LOGGED BY: Phil Brown

DATE: January 25, 1986

DRILLED BY: Longyear Canada Inc.

LOG

0 - 35	CASING
35 - 300	DIORITE
	Med green fine gr. diorite minor carb veining at all angles
	35-57 badly broken (slips 30 and 45 to C/A generally)
	76' chalco in stringers
S.P.?	90 py, po minor cpy in coarse gr. phase
	135.5-136 carb, orange colour no sulphides seen
	141-141 carb breccia no metalics seen
	158 orange carb patches for 6"
	135-190 carb breccia. At 200' sphalerite speck
	213-214 carb vein 60 to C/A minor cpy, PbS (blue)
S.P.?	250-260 - porphyritic + py, po (minor zns, pale brown in some carb veins)
300	END OF HOLE

NO CORE SAMPLES

DIAMOND DRILL LOG

PROJECT: Garnet COST CODE NO.: 1414

COMPANY: Western Pacific Energy Corp.

HOLE NO: G-85-7 LOCATION: L19E 17 S

AZIMUTH: N 30 E DIP AT COLLAR: -45

LOGGED BY: Phil Brown DATE: January 29, 1986

DRILLED BY: Longyear Canada Inc.

LOG

0 - 34 CASING (OV.)

34 - 645 FELSIC TUFF

med green banded felsic tuff carb altered ending 55 to C/A

31-31.3 QV + cherts
38
36 bleached white creamy yellow to 49
38.5-40 QV chloritic pale green no sulphides seen
40-41 fine py seams - also at 56.5
44-46 fine py seams
46-47 QV minor fine py - occasional fine 1/32" seams py
56-61 white qtzitic + fine py
63 - 64.5 rusty - fault
73-4 QV
77-77.5 QV - banding 45 to C/A
75 - dark green qtz carb veins interbedding
108-109 1/4" QV 90 to bedding + py
164 - blackish green spotted qtz phenocrysts
175-6 50% qtz veining + pinkish qtz - very little fine py banding 45 to C/A
216-216.3 QV + carb no py
232 small xcutting QV + py
265-6 QV 1/16" + py xcutting beds
275-77 fault
280-290 pyritic sections esp. 288-89
299 small xcutting QV + ZnS
305 - greyish highly carbonated
332-345 Qtz carb shearing + minor py at shallow angle to core - some pinkish carb.
350-55 core ground
359-60 small pinkish xcutting vein + minor cpy
376-84 brown type carb + silicified and fractured + py + ASpy. 2 feet ground core - VLF anomaly?
400-402 broken core
402 - spotted crystal tuff med green + white spots qtz phenocrysts
413-14 small xcutting qtz vein + py still very little py
436-436.5 QV 60 to C/A - bleached - purplish tint, banding mainly 45 to C/A still much carb, much qtz stringers, parallel bedding

447-9 greyish + more py
460-461 ? xcutting stringers + py
462 - brownish red
475 becoming greyish - 45 banding.
503 - qtz veining + py, cpy (minor) banding 30 to 35 C/A
510-512 sulphides slightly more than usual continue to 545
536-7 x cutting QV - barren but chlorite rimmed.
540-3 - QV, xcutting + cpy, py + carb
553 - brown carb. highly carb (py + cpy scattered) also silicified
566 - dirty brown carb + scattered large py cubes 1/8", 1/4", 1/2"
614-15 1" QV down core, no py
623 - pink qtz carb vein + py (1/4" wide, 15" to C/A)
629-31 - graphite/pyrite + qv's
630-45 - silicified - banding 35 to C/A
639-639.5 small barren QV

645 END OF HOLE

HOLE NO. G-85-7

CORE SAMPLES

SAMPLE NUMBER	FROM	TO	SAMPLE LENGTH	ASSAY - ppm Au	Ag
4077	280	285		<0.01	
4078	285	290		0.01	
4079	375	376		<0.01	
4080	376	378		0.02	
4081	379	380		0.93	
4082	381	382		0.04	
4083	383	385		<0.01	
4084	460	461		<0.01	
4085	462	464		<0.01	
4086	465	470		<0.01	
4087	503	504		<0.01	
4088	505	508		<0.01	
4089	509	513		<0.01	
4090	514	518		<0.01	
4091	565	569		<0.01	
4092	570	575		<0.01	
4093	629	631.5		<0.01	
4094	636	638		0.01	
4099	580	581		<0.01	
4100	590	591		<0.01	

DIAMOND DRILL LOG

PROJECT: Garnet — COST CODE NO.: 1414

COMPANY: Western Pacific Energy Corp.

HOLE NO: G-85-8 — LOCATION: 22 + 00S, 19+50E

AZIMUTH: N 30 E — DIP AT COLLAR: -51

LOGGED BY: Phil Brown — DATE: January 31, 1986

DRILLED BY: Longyear Canada Inc.

LOG

0 - 8 CASING

8 - 20 DIORITE
dark green with occasional QV's 30 and 45 to C/A at 11 1/2" QV
30 to C/A + py minor cpy

20 - 179 GABBRO
paler green carbonate altered + py

37' 2" QV 70 to C/A + py cpy
47-48 rusty fracture
49.5-50.5 qtz rich + py cubes
52.5 1/2" QV 300 to C/A + py
67-70 grey qtz rich + rusty (+ py
84-85 two 1/4" QVS @ 30 and 60 to C/A - no py
100-110 occasional py clusters and cubes
119-120 Qtz rich sections
174-175 sheared

179 - 310 PYROXENITE
179-198 grades into pyroxenite - magnetic coarse grained
182-190 py, po blobs - some cpy
198-210 grey Qtz porph dyke - very little fespar, minor fine py
210 - pyroxenite + (bronzite) brownish pyroxene
minor sulphides - e.g. @ 280 - silver metallic
py, cpy, py, all seen. Fine grained

310 - 350 MAFIC VOLCANIC
grades to serpentinized peridotite?

310 - talc carb slips
318-22 shallow angle shear

350 END OF HOLE

HOLE NO. G-85-8

CORE SAMPLES

SAMPLE NUMBER	FROM	TO	SAMPLE LENGTH	ASSAY - ppm Au	Ag
4095	14	15		<0.01	
4096	36.5	37.5		<0.01	
4097	49.5	52		<0.01	
4098	67	70		<0.01	
4101	185	188		<0.01	

DIAMOND DRILL LOG

PROJECT: Garnet — COST CODE NO.: 1414

COMPANY: Western Pacific Energy Corp.

HOLE NO: G-85-9 — LOCATION: L16E - 27S

AZIMUTH: N 30 E — DIP AT COLLAR: -51

LOGGED BY: Phil Brown — DATE: February 2, 1986

DRILLED BY: Longyear Canada Inc.

LOG

0 - 9 OVERBURDEN

9 - 133 GABBRO/PYROXENITE
brown bronzitite crystals, med grain to coarse magnetic minor py
gabbro at 60 - magnetic med. gr. at 93 - 1" QV 30 to C/A becoming fine gr. 100'

133 - 174 BANDED IF
strongly magnetic blackbanding 70 to C/A contact sharp - 140 some green serpentine

138 dk green + 5% + py 50 to C/A banding

cherty + heavy py banding 70 to C/A some graphite

149-151 20% py
152-154 brecciated chert + 10% py + cpy
155-160 chert + 5% py
160-174 black mag. IF + py + po - banding

174 - 245.5 FELSIC TUFF
174-245.5 heavy py grey - qtz with qtz eyes - py to 100% in small stretches but generally about 20%. Some chert - py - cpy - ZnS

Some gpl @ 180

195-200 heavy py 50% + cpy + ZnS

245.5-285 INTERMEDIATE TUFF
greyish brown more carbonate

285 - 350 GABBRO
fine - becoming coarse gb

327 porphyte qtz seams
325.5-326.5 Q carb vein + chlorite
329-30 QV carb bein + chlorite
337 - 3" vein 40 to C/A broken

350 END OF HOLE

HOLE NO. G-85-9

CORE SAMPLES

SAMPLE NUMBER	FROM	TO	SAMPLE LENGTH	ASSAY - ppm Au	Ag
4102	138	141		<0.01	
4103	142	146		<0.01	
4104	147	149		<0.01	
4105	150	153		<0.01	
4106	154	157		<0.01	
4107	158	160		<0.01	
4108	161	165		<0.01	
4109	166	169		<0.01	
4110	170	173.5		<0.01	
4111	174	175		0.02	0.4
4112	176	179		0.07	0.2
4113	180	184		0.02	0.3
4114	185	189		<0.01	0.2
4115	190	194		<0.01	0.1
4116	195	199		0.02	0.6
4117	200	204		<0.01	<0.1
4118	205	209		<0.01	<0.1
4119	210	214		<0.01	
4120	215	219		<0.01	
4121	220	221		<0.01	
4122	222.5	226		<0.01	

DIAMOND DRILL LOG

PROJECT: Garnet — COST CODE NO.: 1414

COMPANY: Western Pacific Energy Corp.

HOLE NO: G-85-10 — LOCATION: 32+00E 83+50S

AZIMUTH: Due N — DIP AT COLLAR: 45

LOGGED BY: Phil Brown — DATE: February 6, 1986

DRILLED BY: Longyear Canada Inc.

LOG

0 - 73 OVERBURDEN

73 - 321.5 QUARTZ PORPHYRY

Grey varying to pinkish orange qtz porphyry bedded 55 to C/A

152 - 154 - Minor py and qtz veining

160 - 163 - Some cpy in places, shallow angle qtz / cb veining

orange 85-97 scattered magnetite?

grey 97-117 scattered minor py

orange 117-128

128-140 orange/grey mixed

133-4 pinkish qtz/cb vein parallel to core

140-171 pale coloration carbonated + qtz veining some extra py - e.g. 153
171 - orange colour - 196
196-207 bleached sheering 60 to C/A at 214 small qtz vein + minor py
226 - orange again -255
255 - greenish-grey
258 qtz veining - qtz/carb + chlorite no py
285-288 partley bleached minor py. At 300 looks like felsp porph. banding to C/A, talc on slips

321.5-436.5 IF

begins graphitic broken at first, badly broken to 340 with iron oxide on fractures and much graphite, white chert bands and pyrite. Brecciated chert + remobilized py

344-5 small jasper bands
348-9 banding 70 to C/A
348-356 VLF
354-356.5 90 % py + gph. 6" massive py + 2" py.
358-371 creamy carb in chert section
365-6 gp + py
371-390 bedding 60 to C/A
390 - chert IF + py gp sections
405.5 - jasper IF + magnetite sections. Banding mainly 70 to C/A. Chert jasper ends 430'. very low py.

433-436 magnetite bands

436.5-465 DIORITE
fine grain med. green/dk green diorite.
449-452 qtz cb. veining + py cubes

465 END OF HOLE.

HOLE NO. G-85-10

CORE SAMPLES

SAMPLE NUMBER	FROM	TO	SAMPLE LENGTH	ASSAY - ppm Au	Ag
4130	152	154		<0.01	
4131	160	163		<0.01	
4132	318.5	320		0.12	
4133	321.5	324		0.03	
4134	325	329		0.12	
4135	330	334		0.26	
4136	335	339		0.11	
4137	340	344		0.29	
4138	345	347		0.04	
4139	348	349		0.14	
4140	350	353		<0.01	
4141	354	355		0.06	
4142	356.5	359		<0.01	
4143	360	364		<0.01	
4144	365	366		0.10	
4145	390	391		<0.01	
4146	392	394		<0.01	
4147	395	399		<0.01	
4148	400	404		<0.01	
4149	407.5	409.5		<0.01	
4150	414.5	415.5		0.10	
4151	449	452		<0.01	

DIAMOND DRILL LOG

PROJECT:	Garnet	COST CODE NO.:	1414
COMPANY:	Western Pacific Energy Corp.		
HOLE NO:	G-85-11	LOCATION:	12+00W, 21+50S
AZIMUTH:	Due N	DIP AT COLLAR:	-45 250' 45
LOGGED BY:	Phil Brown	DATE:	February 8, 1986
DRILLED BY:	Longyear Canada Inc.		

LOG

0 - 45	OVERBURDEN
45 - 70.5	GABBRO med. green, med. grain gabbro, minor py, occas. minor qtz cb stringers 45 and 30 to C/A. At 67' fine grained to 70.5
70.5 - 101	IF black magnetic py section 80'- brecciated + chert development, minor qtz carb banding 60 to C/A
101 - 167.5	FELSIC TUFF greyish green felsic tuff / agglomerate up to 1' x 1/2' angular frags. Minor cpy green 121 154.5-156 QV at shallow angle 15 with sulphides in wallrock py
167.5 - 176.5	IF Jasper magnetite py chert carb. 173-5 py VLF 5% py
176.5 - 184	TUFF
184 - 188	IF Chert py, rusty py zone, VLL 5% py, carb + silicification.
188 - 350	FELSIC TUFF 188-350 greyish qtz eyes, felsic tuff, occasional qtz stringers, no py
350	END OF HOLE

HOLE NO. G-85-11

CORE SAMPLES

SAMPLE NUMBER	FROM	TO	SAMPLE LENGTH	ASSAY - ppm Au	Ag
4252	74	75		<0.01	
4153	79	83		<0.01	
4154	84	87		0.02	
4155	88	89		<0.01	
4156	90	92		<0.01	
4157	93	94		<0.01	
4158	95	98		<0.01	
4159	99	101		<0.01	
4160	154.5	156		<0.01	
4161	172.5	175		<0.01	
4162	184	188		0.38	

DIAMOND DRILL LOG

PROJECT: Garnet — COST CODE NO.: 1414

COMPANY: Western Pacific Energy Corp.

HOLE NO: G-85-12 — LOCATION: 44 W 15 N

AZIMUTH: N 30 E — DIP AT COLLAR: -45

LOGGED BY: Phil Brown — DATE: February 11, 1986

DRILLED BY: Longyear Canada Ltd.

LOG

0 - 118 OVERBURDEN

113 - 294 GREY TUFF

113 - grey tuff - graphitic in places, banding 70 to C/A

6" overburden at 141

151-152 QV down core with heavy sulphides (py) in well rock
155-165 QVs + much py and 5' ground core
165-167 Q cb veins pink carb no py
169-170 QV + carb no py
181-196 QVs some py
201-2 py bands
209-211 some chert bands some py
212-213 py bands
221-3 py gph. banding
226-7 py gp. banding
banded tuff with 30% qtz cb veining + minor py banding 60-65 to C/A @ 280

294 - 329 IRON FORMATION

294-301 banded jasper IF magnetite minor py cpy
301-313 dk green fine gr. chlorite + minor jasper bands qtz (chert bands)

313 - 329 MAGNETITE BANDS

magnetite + brick red qtz and carb in veining minor py cpy

329 - 425 TUFF

grey to greenish grey with occas. uwith 1/4" jasper bands - tuff. Banding 80 to C/A qtz veining as stringers and qtz cb at all angles about every 3 to 4 inches very little pyrite.

322-327 minor cpy py

425 END OF HOLE

HOLE. NO. G-85-12

CORE SAMPLES

SAMPLE NUMBER	FROM	TO	SAMPLE LENGTH	ASSAY - ppm Au	Ag
4163	151	152		<0.01	
4164	153.5	154		<0.01	
4165	155	156		<0.01	
4166	157.5	160		<0.01	
4167	184	186		<0.01	
4168	201	202		<0.01	
4169	208	211		<0.01	
4170	212	213		<0.01	
4171	213.5	215		<0.01	
4172	216	217		<0.01	
4173	218	220		<0.01	
4174	221	222		0.07	
4175	223	225		<0.01	
4176	226	228		0.02	
4177	237	240		<0.01	
4178	246	248		<0.01	
4179	275	280		<0.01	
4180	322	327		<0.01	

DIAMOND DRILL LOG

PROJECT: Garnet — COST CODE NO.: 1414

COMPANY: Western Pacific Energy Corp.

HOLE NO: G-85-13 — LOCATION: 69 S 35 W

AZIMUTH: Due N — DIP AT COLLAR: 45

LOGGED BY: Phil Brown — DATE: February 14, 1986

DRILLED BY: Longyear Canada Inc.

LOG

0 - 140	OVERBURDEN
140 - 145	Mafic vol + py qtz veining badly sheared and altered
145	Hole abandoned.

Casing broken 50'

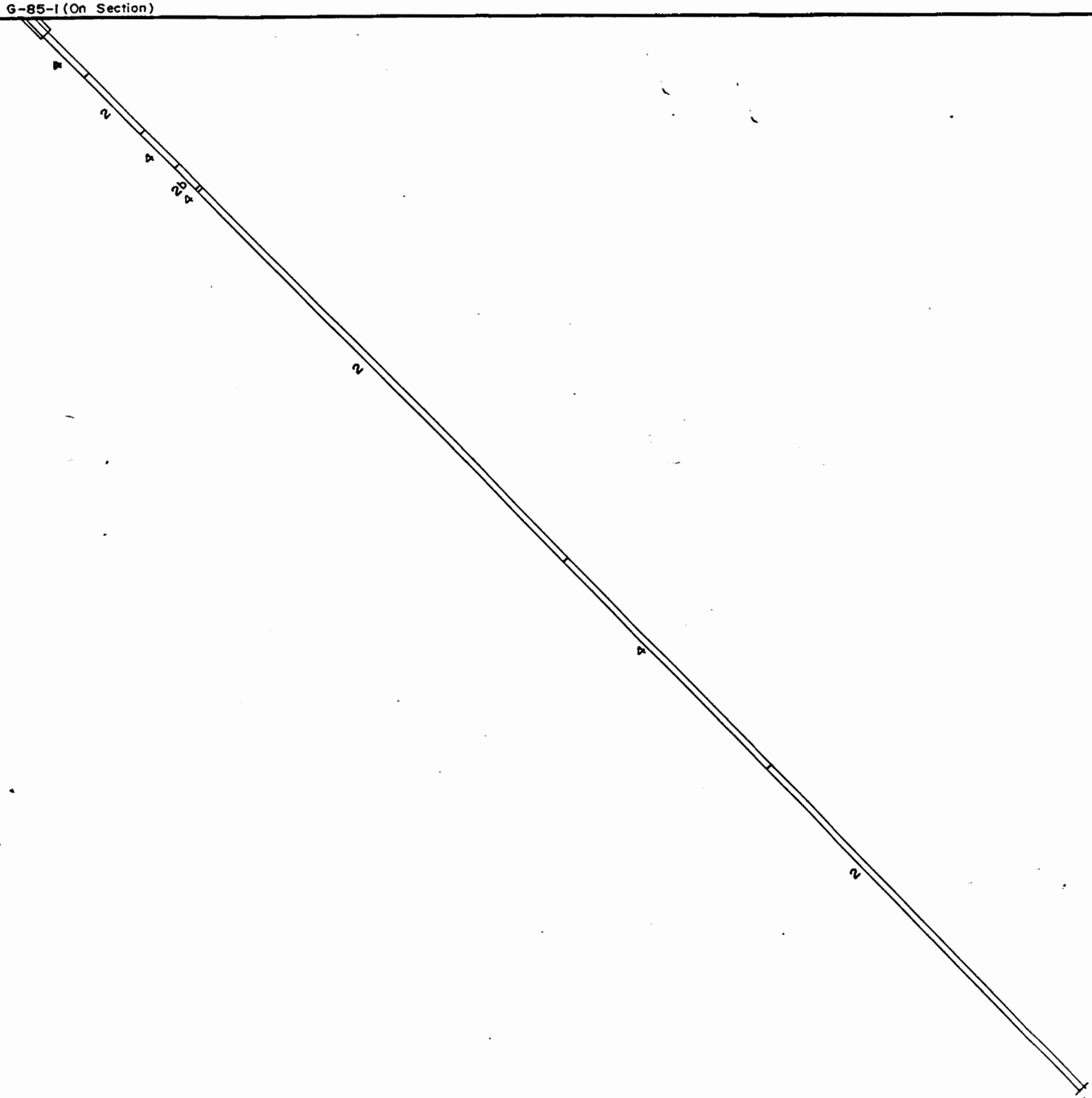
HOLE NO. G-85-13

CORE SAMPLES

SAMPLE NUMBER	FROM	TO	SAMPLE LENGTH	ASSAY - ppm Au	Ag
4181	140	145		<0.01	

3S 2S 1S 0 1N 2N 3N 4N

G-85-1 (On Section)



py pyrite
po pyrrhotite
cpy chalcopyrite
sp sphalerite

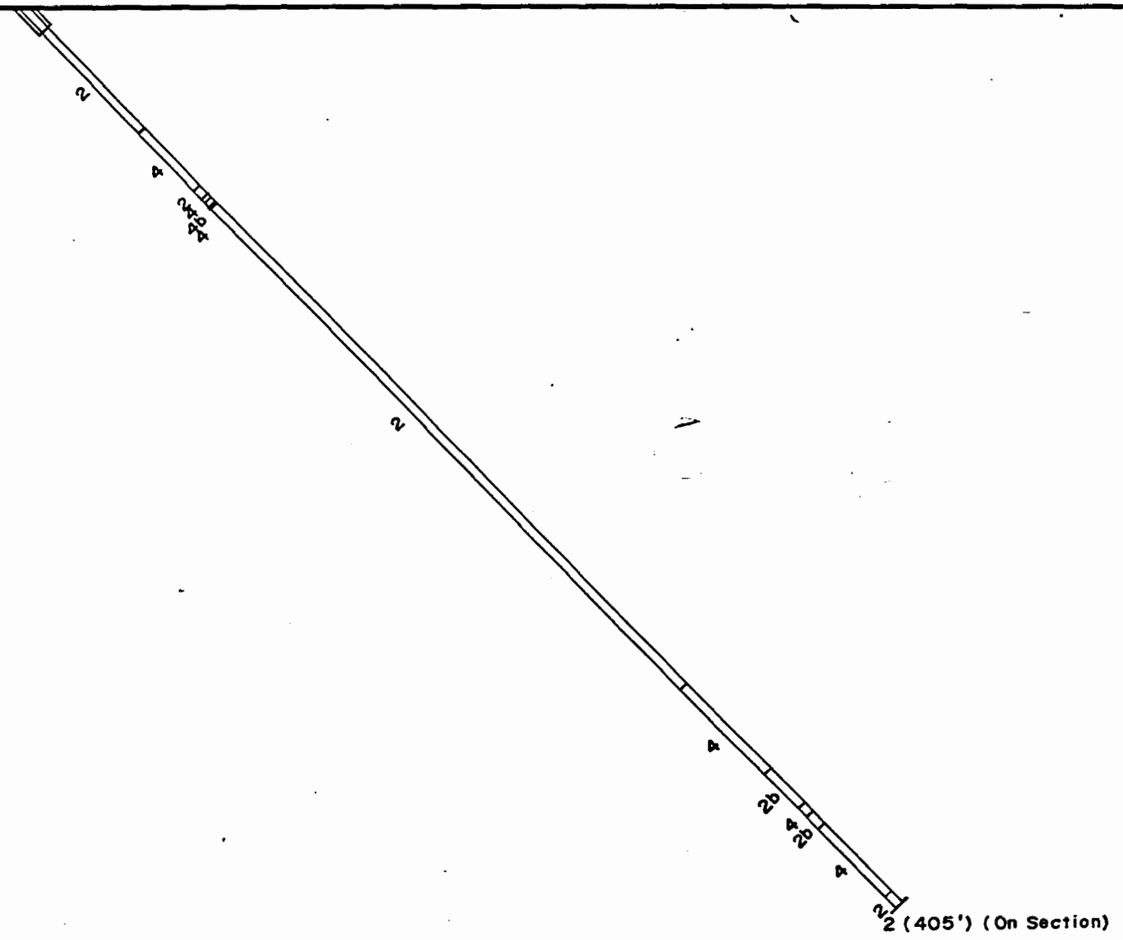
- MAFIC INTRUSIVES
- FELSIC INTRUSIVES
- GRANITIC ROCKS
- 5. SEDIMENTS
  - 5a. GREYWACKE, MUDSTONE
  - 5b CHERT
  - 5c GRAPHITE
- 4 IRON FORMATION
  - 4a SULPHIDE SERIES
  - 4b CHERT OXIDE FACIES
- 3 FELSIC VOLCANICS
  - 3a FLOWS
  - 3b TUFFS & FRAGMENTALS
- 2 INTERMEDIATE VOLCANICS
  - 2a FLOWS
  - 2b TUFFS & FRAGMENTALS
- MAFIC VOLCANICS
  - 1a FLOWS
  - 1b TUFFS & FRAGMENTALS
- UM ULTRAMAFIC ROCKS, TALC
- SS SILISIFICATION
- CC CARBONATIZATION
- SR SERITIZATION
- QV QUARTZ VEINING
- CV CARBONATE VEINING
- SHEARING

"LOOKING WEST"

WESTERN PACIFIC ENERGY CORP.		
GARNET PROPERTY		
DIAMOND DRILL SECTIONS		
HOLE No's : G-85-1		
LOCATION : 32+00 W		
SCALE 1" =	DATE SEPT. 1985	DRAWN BY PARR, C. J.

7S 6S 5S 4S 3S 2S 1S 0 1N

G-85-2 (On Section)



py pyrite
po pyrrhotite
cpy chalcopyrite
sp sphalerite

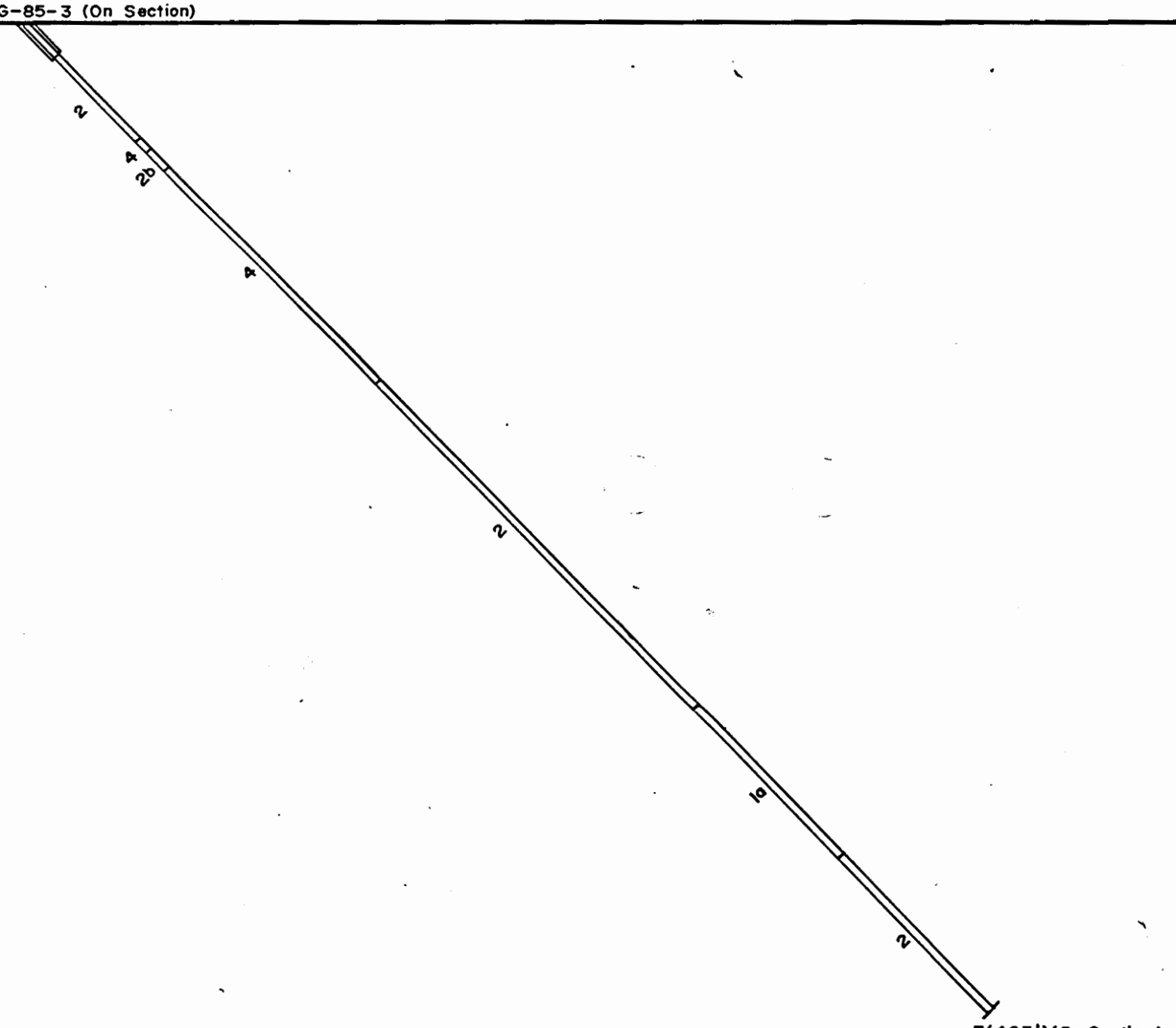
- MAFIC INTRUSIVES
- FELSIC INTRUSIVES
- GRANITIC ROCKS
- 5 SEDIMENTS
  - 5a GREYWACKE, MUDSTONE
  - 5b CHERT
  - 5c GRAPHITE
- 4 IRON FORMATION
  - 4a SULPHIDE SERIES
  - 4b CHERT - OXIDE FACIES
- 3 FELSIC VOLCANICS
  - 3a FLOWS
  - 3b TUFFS & FRAGMENTALS
- 2 INTERMEDIATE VOLCANICS
  - 2a FLOWS
  - 2b TUFFS & FRAGMENTALS
- 1 MAFIC VOLCANICS
  - 1a FLOWS
  - 1b TUFFS & FRAGMENTALS
- UM ULTRAMAFIC ROCKS, TALC
- SS SILISIFICATION
- CC CARBONATIZATION
- SR SERITIZATION
- QV QUARTZ VEINING
- CV CARBONATE VEINING
- SHEARING

"LOOKING WEST"

WESTERN PACIFIC ENERGY CORP.		
GARNET PROPERTY		
DIAMOND DRILL SECTIONS		
HOLE No's: G-85-2		
LOCATION: 48+00 W		
SCALE 1" = 50'	DATE DEC 1985	DRAWN BY PAR.B, C.JA

9S 8S 7S 6S 5S 4S 3S 2S 1S

G-85-3 (On Section)



3(465')(On Section)

py pyrite
po pyrrhotite
cpy chalcopyrite
sp sphalerite

- MAFIC INTRUSIVES
- FELSIC INTRUSIVES
- GRANITIC ROCKS
- 5. SEDIMENTS
  - 5a. GREYWACKE, MUDSTONE
  - 5b. CHERT
  - 5c GRAPHITE
- 4 IRON FORMATION
  - 4a SULPHIDE SERIES
  - 4b. CHERT - OXIDE FACIES
- 3 FELSIC VOLCANICS
  - 3a. FLOWS
  - 3b TUFFS & FRAGMENTALS
- 2 INTERMEDIATE VOLCANICS
  - 2a. FLOWS
  - 2b TUFFS & FRAGMENTALS
- MAFIC VOLCANICS
  - 1a FLOWS
  - 1b TUFFS & FRAGMENTALS
- UM ULTRAMAFIC ROCKS, TALC
- SS SILISIFICATION
- CC CARBONATIZATION
- SR SERITIZATION
- QV QUARTZ - VEINING
- CV CARBONATE VEINING
- SHEARING

"LOOKING WEST"

WESTERN PACIFIC ENERGY CORP.		
GARNET PROPERTY		
DIAMOND DRILL SECTIONS		
HOLE No's : G-85-3, G-85-5b		
LOCATION : 72+00 W		
SCALE 1" = 50'	DATE DEC 1985	DRAWN BY PA.R.B.C.J.A

0 1N 2N 3N 4N 5N 6N 7N

G - 85 - 4. (On Section)

4 (415') (On Section)

py pyrite
po pyrrhotite
cpy chalcopyrite
sp sphalerite

- MAFIC INTRUSIVES
- FELSIC INTRUSIVES
- GRANITIC ROCKS
- 5. SEDIMENTS
  - 5a. GREYWACKE, MUDSTONE
  - 5b CHERT
  - 5c GRAPHITE
- 4 IRON FORMATION
  - 4a SULPHIDE SERIES
  - 4b. CHERT - OXIDE FACIES
- 3 FELSIC VOLCANICS
  - 3a. FLOWS
  - 3b TUFFS & FRAGMENTALS
- 2 INTERMEDIATE VOLCANICS
  - 2a FLOWS
  - 2b TUFFS & FRAGMENTALS
- 1 MAFIC VOLCANICS
  - 1a FLOWS
  - 1b TUFFS & FRAGMENTALS
- UM ULTRAMAFIC ROCKS, TALC
- SS SILISIFICATION
- CC CARBONATIZATION
- SR SERITIZATION
- QV QUARTZ VEINING
- CV CARBONATE VEINING
- SHEARING

"LOOKING WEST"

WESTERN PACIFIC ENERGY CORP.		
GARNET PROPERTY		
DIAMOND DRILL SECTIONS		
HOLE No's: G-85-4		
LOCATION: 76+00 W		
SCALE 1" = 50'	DATE JAN 1986	DRAWN BY PAR B.C.J.A

2N 3N 4N 5N 6N 7N 8N 9N

G-85-5 (On Section)

1a

1b

5(205')(On Section)

py pyrite
po pyrrhotite
cpy chalcopyrite
sp sphalerite

- MAFIC INTRUSIVES
- FELSIC INTRUSIVES
- GRANITIC ROCKS
- 5 SEDIMENTS
  - 5a GREYWACKE, MUDSTONE
  - 5b CHERT
  - 5c GRAPHITE
- 4 IRON FORMATION
  - 4a SULPHIDE SERIES
  - 4b CHERT-OXIDE FACIES
- 3 FELSIC VOLCANICS
  - 3a FLOWS
  - 3b TUFFS & FRAGMENTALS
- 2 INTERMEDIATE VOLCANICS
  - 2a FLOWS
  - 2b TUFFS & FRAGMENTALS
- 1 MAFIC VOLCANICS
  - 1a FLOWS
  - 1b TUFFS & FRAGMENTALS
- UM ULTRAMAFIC ROCKS, TALC
- SS SILICIFICATION
- CC CARBONATIZATION
- SR SERITIZATION
- QV QUARTZ VEINING
- CV CARBONATE VEINING
- SHEARING

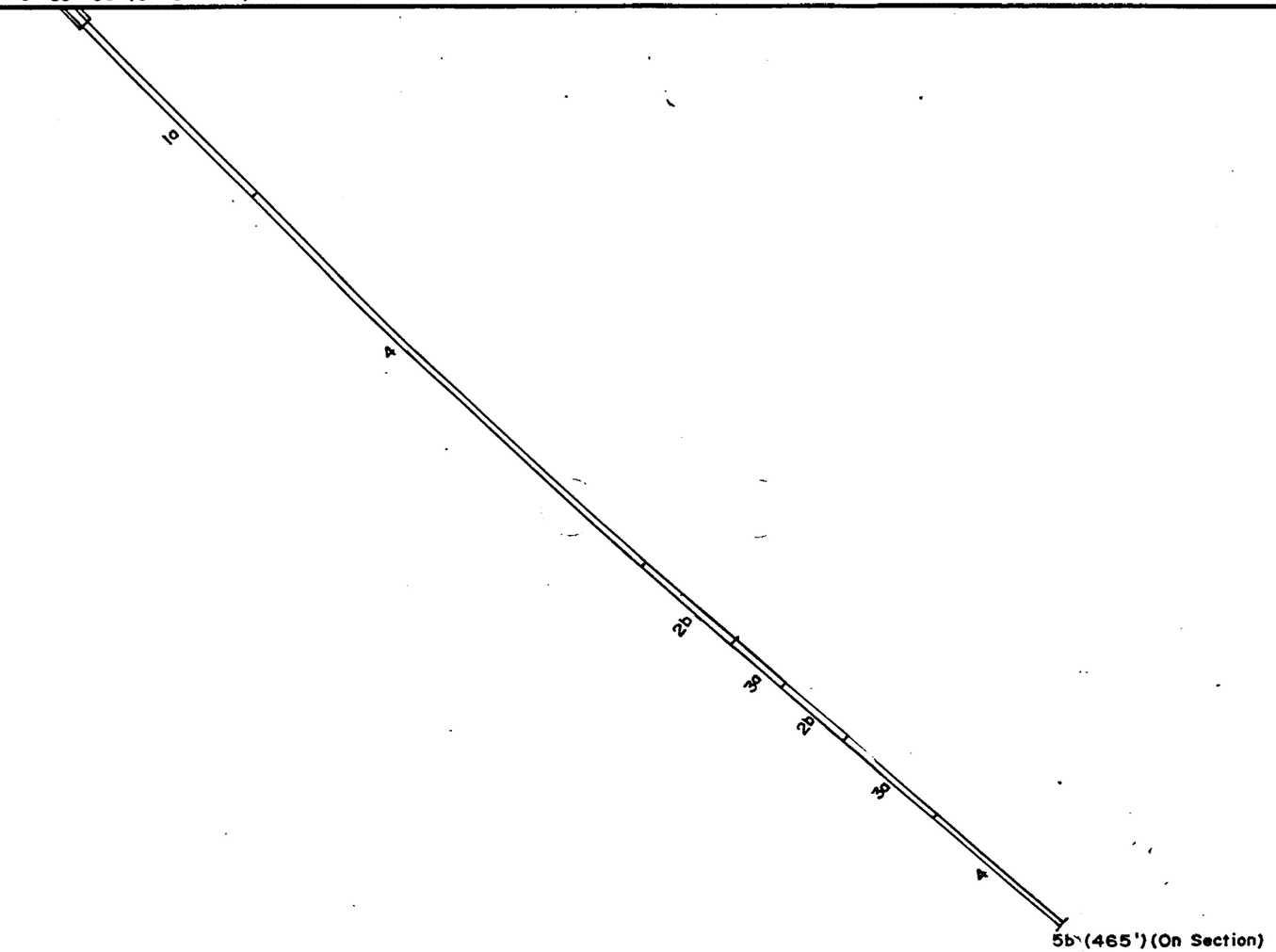
"LOOKING WEST"

WESTERN PACIFIC ENERGY CORP.		
GARNET PROPERTY		
DIAMOND DRILL SECTIONS		
HOLE No's: G-85-5		
LOCATION: 72+00 W		
SCALE 1:200	DATE JAN 1986	DRAWN BY PJA

2N 3N 4N 5N 6N 7N

G-85-5b (On Section)

SURFACE



py pyrite
po pyrrhotite
cpy chalcopyrite
sp sphalerite

MAFIC INTRUSIVES
FELSIC INTRUSIVES
GRANITIC ROCKS
5. SEDIMENTS
5a. GREYWACKE, MUDSTONE
5b. CHERT
5c GRAPHITE
4 IRON FORMATION
4a SULPHIDE SERIES
4b. CHERT - OXIDE FACIES
3 FELSIC VOLCANICS
3a. FLOWS
3b TUFFS & FRAGMENTALS
2 INTERMEDIATE VOLCANICS
2a. FLOWS
2b TUFFS & FRAGMENTALS
1 MAFIC VOLCANICS
1a FLOWS
1b TUFFS & FRAGMENTALS
UM ULTRAMAFIC ROCKS, TALC
SS SILISIFICATION
CC CARBONATIZATION
SR SERITIZATION
QV QUARTZ VEINING
CV CARBONATE VEINING
SHEARING

"LOOKING WEST"

WESTERN PACIFIC ENERGY CORP.
GARNET PROPERTY
DIAMOND DRILL SECTIONS
HOLE No's: G-85-3, G-85-5b
LOCATION: 72+00 W
SCALE 1" = 50' | DATE DEC 1985 | DRAWN BY PA.R.B.C.J.A

0 1N 2N 3N 4N 5N 6N 7N

G-85-6 (On Section)

2

6 (117'E)

py pyrite
po pyrrhotite
cpy chalcopyrite
sp sphalerite

- MAFIC INTRUSIVES
- FELSIC INTRUSIVES
- GRANITIC ROCKS
- 5. SEDIMENTS
  - 5a GREYWACKE, MUDSTONE
  - 5b CHERT
  - 5c GRAPHITE
- 4 IRON FORMATION
  - 4a SULPHIDE SERIES
  - 4b CHERT - OXIDE FACIES
- 3 FELSIC VOLCANICS
  - 3a FLOWS
  - 3b TUFFS & FRAGMENTALS
- 2 INTERMEDIATE VOLCANICS
  - 2a FLOWS
  - 2b TUFFS & FRAGMENTALS
- 1 MAFIC VOLCANICS
  - 1a FLOWS
  - 1b TUFFS & FRAGMENTALS
- UM ULTRAMAFIC ROCKS, TALC
- SS SILISIFICATION
- CC CARBONATIZATION
- SR SERITIZATION
- QV QUARTZ VEINING
- CV CARBONATE VEINING
- SHEARING

"LOOKING WEST"

WESTERN PACIFIC ENERGY CORP.		
GARNET PROPERTY		
DIAMOND DRILL SECTIONS		
HOLE No's: G-85-6		
LOCATION: 60+00 W		
SCALE 1" = 50'	DATE JAN 1986	DRAWN BY P.A.R.B. C.J.A

17S 16S 15S 14S 13S 12S 11S 10S

G-85-7 (On Section)

3b

645

py pyrite
po pyrrhotite
cpy chalcopyrite
sp sphalerite

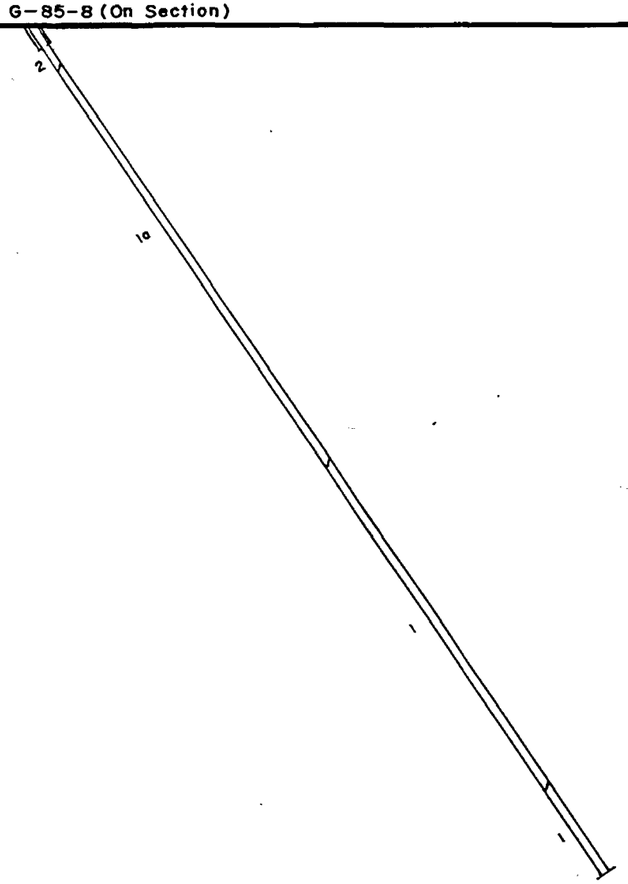
- MAFIC INTRUSIVES
- FELSIC INTRUSIVES
- GRANITIC ROCKS
- 5. SEDIMENTS
  - 5a. GREYWACKE, ARGILLITE
  - 5b. CHERT
  - 5c. GRAPHITE
- 4 IRON FORMATION
  - 4a. SULPHIDE FACIES
  - 4b. CHERT-OXIDE FACIES
- 3 FELSIC VOLCANICS
  - 3a. FLOWS
  - 3b. TUFFS & FRAGMENTALS
- 2. INTERMEDIATE VOLCANICS
  - 2a. FLOWS
  - 2b. TUFFS & FRAGMENTALS
- 1.MAFIC VOLCANICS
  - 1a. FLOWS
  - 1b. TUFFS & FRAGMENTALS
- UM ULTRAMAFIC ROCKS, TALC
- SS SILISIFICATION
- CC CARBONATIZATION
- SR SERITIZATION
- QV QUARTZ VEINING
- CV CARBONATE VEINING
- SHEARING

"LOOKING WEST"

WESTERN PACIFIC ENERGY CORP.		
GARNET PROPERTY		
DIAMOND DRILL SECTIONS		
HOLE No's: G-85-7		
LOCATION: 19+00 E		
SCALE 1" = 50'	DATE DEC 1985	DRAWN BY PARB., C.J.A.

23 S | 22 S | 21 S | 20 S | 19 S | 18 S | 17 S | 16 S | 15

G-85-8 (On Section)



py	pyrite
po	pyrrhotite
cpy	chalcopyrite
sp	sphalerite

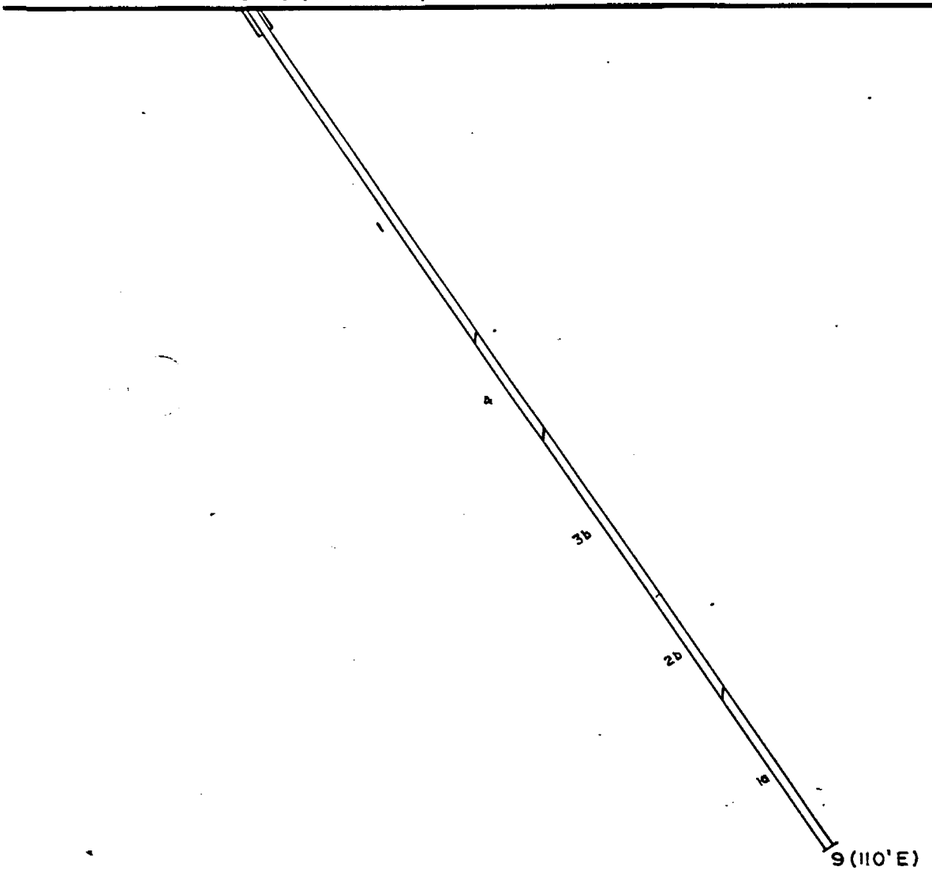
- MAFIC INTRUSIVES
- FELSIC INTRUSIVES
- GRANITIC ROCKS
- 5. SEDIMENTS
  - 5a. GREYWACKE, MUDSTONE
  - 5b CHERT
  - 5c GRAPHITE
- 4 IRON FORMATION
  - 4a SULPHIDE SERIES
  - 4b CHERT - OXIDE FACIES
- 3 FELSIC VOLCANICS
  - 3a. FLOWS
  - 3b TUFFS & FRAGMENTALS
- 2. INTERMEDIATE VOLCANICS
  - 2a FLOWS
  - 2b TUFFS & FRAGMENTALS
- MAFIC VOLCANICS
  - 1a FLOWS
  - 1b TUFFS & FRAGMENTALS
- UM ULTRAMAFIC ROCKS, TALC
- SS SILISIFICATION
- CC CARBONATIZATION
- SR SERITIZATION
- QV QUARTZ VEINING
- CV CARBONATE VEINING
- SHEARING

"LOOKING WEST"

WESTERN PACIFIC ENERGY CORP.		
GARNET PROPERTY		
DIAMOND DRILL SECTIONS		
HOLE No's : G-85-8		
LOCATION : 19+50 E		
SCALE 1" = 50'	DATE DEC 1985	DRAWN BY PAR.B.CJA

27S 26S 25S 24S 23S 22S 21S 20S

G-85-9 (On Section)



py pyrite
po pyrrhotite
cpy chalcopyrite
sp sphalerite

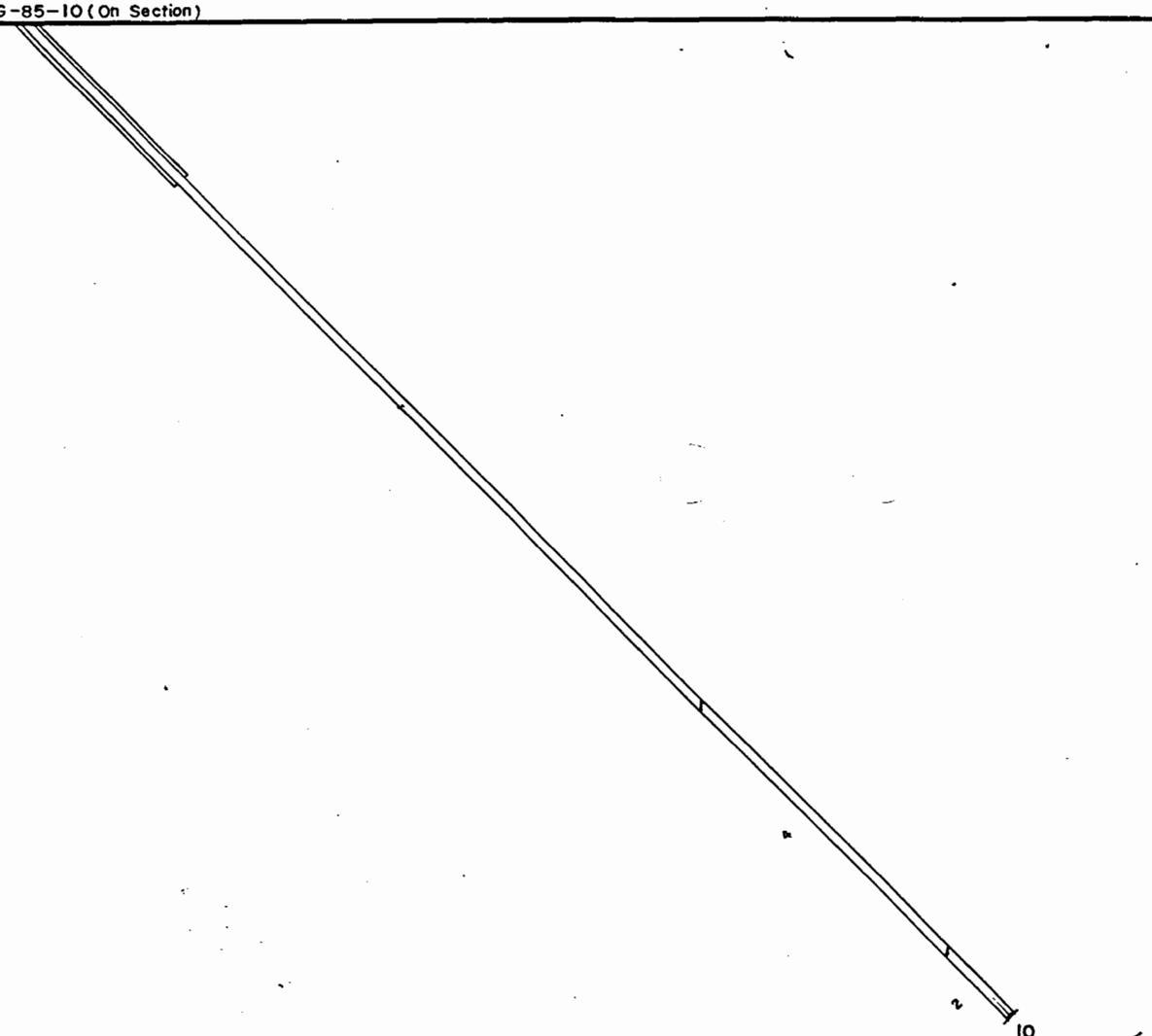
- MAFIC INTRUSIVES
- FELSIC INTRUSIVES
- GRANITIC ROCKS
- 5. SEDIMENTS
  - 5a. GREYWACKE, MUDSTONE
  - 5b. CHERT
  - 5c GRAPHITE
- 4 IRON FORMATION
  - 4a SULPHIDE SERIES
  - 4b. CHERT - OXIDE FACIES
- 3 FELSIC VOLCANICS
  - 3a. FLOWS
  - 3b. TUFFS & FRAGMENTALS
- 2. INTERMEDIATE VOLCANICS
  - 2a. FLOWS
  - 2b. TUFFS & FRAGMENTALS
- 1 MAFIC VOLCANICS
  - 1a FLOWS
  - 1b TUFFS & FRAGMENTALS
- UM ULTRAMAFIC ROCKS, TALC
- SS SILISIFICATION
- CC CARBONATIZATION
- SR SERITIZATION
- QV QUARTZ VEINING
- CV CARBONATE VEINING
- SHEARING

"LOOKING WEST"

WESTERN PACIFIC ENERGY CORP.		
GARNET PROPERTY		
DIAMOND DRILL SECTIONS		
HOLE No's: G-85-9		
LOCATION: 16+00 E		
SCALE 1" = 50'	DATE DEC 1985	DRAWN BY P.A.R.B.C.J.A

84 S | 83 S | 82 S | 81 S | 80 S | 79 S | 78 S | 77 S

G-85-10 (On Section)



465

py pyrite
po pyrrhotite
cpy chalcopyrite
sp sphalerite

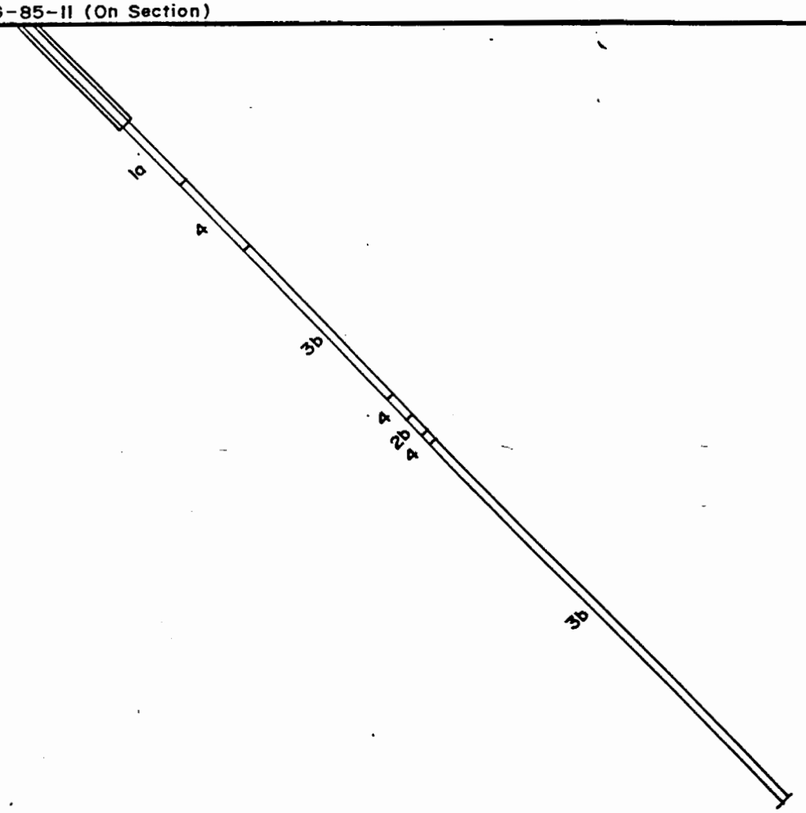
- MAFIC INTRUSIVES
- FELSIC INTRUSIVES
- GRANITIC ROCKS
- 5. SEDIMENTS
  - 5a. GREYWACKE, MUDSTONE
  - 5b CHERT
  - 5c GRAPHITE
- 4 IRON FORMATION
  - 4a SULPHIDE SERIES
  - 4b CHERT - OXIDE FACIES
- 3 FELSIC VOLCANICS
  - 3a. FLOWS
  - 3b TUFFS & FRAGMENTALS
- 2. INTERMEDIATE VOLCANICS
  - 2a FLOWS
  - 2b TUFFS & FRAGMENTALS
- 1 MAFIC VOLCANICS
  - 1a FLOWS
  - 1b TUFFS & FRAGMENTALS
- UM ULTRAMAFIC ROCKS, TALC
- SS SILISIFICATION
- CC CARBONATIZATION
- SR SERITIZATION
- QV QUARTZ VEINING
- CV CARBONATE VEINING
- SHEARING

"LOOKING WEST"

WESTERN PACIFIC ENERGY CORP.		
GARNET PROPERTY		
DIAMOND DRILL SECTIONS		
HOLE No's: G-85-10		
LOCATION: 32+00 E		
SCALE 1" = 50'	DATE DEC 1985	DRAWN BY PARB.C.J.A

23S 22S 21S 20S 19S 18S 17S 16S 15S

G-85-11 (On Section)



II(350')(On Section)

py pyrite
po pyrrhotite
cpy chalcopyrite
sp sphalerite

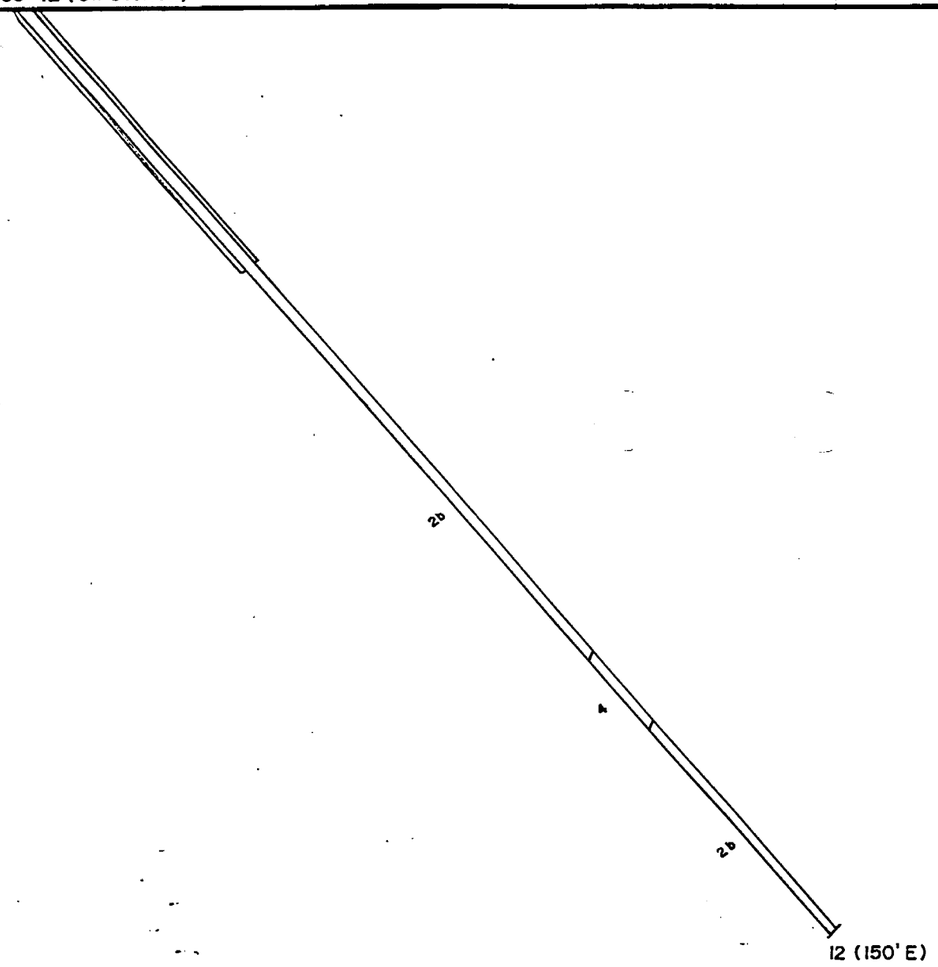
- MAFIC INTRUSIVES
- FELSIC INTRUSIVES
- GRANITIC ROCKS
- 5. SEDIMENTS
  - 5a. GREYWACKE, MUDSTONE
  - 5b. CHERT
  - 5c. GRAPHITE
- 4 IRON FORMATION
  - 4a SULPHIDE SERIES
  - 4b. CHERT - OXIDE FACIES
- 3 FELSIC VOLCANICS
  - 3a. FLOWS
  - 3b TUFFS & FRAGMENTALS
- 2 INTERMEDIATE VOLCANICS
  - 2a FLOWS
  - 2b TUFFS & FRAGMENTALS
- 1 MAFIC VOLCANICS
  - 1a FLOWS
  - 1b TUFFS & FRAGMENTALS
- UM ULTRAMAFIC ROCKS, TALC
- SS SILISIFICATION
- CC CARBONATIZATION
- SR SERITIZATION
- QV QUARTZ VEINING
- CV CARBONATE VEINING
- SHEARING

"LOOKING WEST"

WESTERN PACIFIC ENERGY CORP.
GARNET PROPERTY
DIAMOND DRILL SECTIONS
HOLE No's : G-85-11
LOCATION : 12+00 W
SCALE 1" = 50' | DATE FEB 1986 | DRAWN BY J.A

14 N | 15N | 16N | 17N | 18N | 19N | 20 N | 21 N | 22

G-85-12 (On Section)



py pyrite
po pyrrhotite
cpy chalcopyrite
sp sphalerite

- MAFIC INTRUSIVES
- FELSIC INTRUSIVES
- GRANITIC ROCKS
- 5. SEDIMENTS
  - 5a. GREYWACKE, MUDSTONE
  - 5b. CHERT
  - 5c GRAPHITE
- 4 IRON FORMATION
  - 4a SULPHIDE SERIES
  - 4b CHERT - OXIDE FACIES
- 3 FELSIC VOLCANICS
  - 3a. FLOWS
  - 3b TUFFS & FRAGMENTALS
- 2. INTERMEDIATE VOLCANICS
  - 2a FLOWS
  - 2b TUFFS & FRAGMENTALS
- 1.MAFIC VOLCANICS
  - 1a FLOWS
  - 1b TUFFS & FRAGMENTALS
- UM ULTRAMAFIC ROCKS, TALC
- SS SILISIFICATION
- CC CARBONATIZATION
- SR SERITIZATION
- QV QUARTZ VEINING
- CV CARBONATE VEINING
- SHEARING

"LOOKING WEST"

WESTERN PACIFIC ENERGY CORP.		
GARNET PROPERTY		
DIAMOND DRILL SECTIONS		
HOLE No's : G-85-12		
LOCATION : 44+00 W		
SCALE 1" = 50'	DATE FEB 1986	DRAWN BY D.A.R.B. C.J.A.

70S 69S 68S 67S 66S 65S 64S 63S

G-85-13 (On Section)

13(145')(On Section)

py pyrite
po pyrrhotite
cpy chalcopyrite
sp sphalerite

- MAFIC INTRUSIVES
- FELSIC INTRUSIVES
- GRANITIC ROCKS
- 5 SEDIMENTS
  - 5a GREYWACKE, MUDSTONE
  - 5b CHERT
  - 5c GRAPHITE
- 4 IRON FORMATION
  - 4a SULPHIDE SERIES
  - 4b CHERT OXIDE FACIES
- 3 FELSIC VOLCANICS
  - 3a FLOWS
  - 3b TUFFS & FRAGMENTALS
- 2 INTERMEDIATE VOLCANICS
  - 2a FLOWS
  - 2b TUFFS & FRAGMENTALS
- 1 MAFIC VOLCANICS
  - 1a FLOWS
  - 1b TUFFS & FRAGMENTALS
- UM ULTRAMAFIC ROCKS, TALC
- MS [illegible]
- CC CARBONATIZATION
- SR SERITIZATION
- QV QUARTZ VEINING
- CV CARBONATE VEINING
- SHEARING

"LOOKING WEST"

WESTERN PACIFIC ENERGY CORP.		
GARNET PROPERTY		
DIAMOND DRILL SECTIONS		
HOLE No's: G-85-13		
LOCATION: 35+00 W		
SCALE 1" = 5[illegible]	DATE FEB, 1986	DRAWN BY C.J.A

BELL-WHITE ANALYTICAL LABORATORIES LTD.
P.O. BOX 187. HAILEYBURY, ONTARIO TEL: 672-3107

Certificate of Analysis

NO. 1315 DATE: August 27, 1986

SAMPLE(S) OF: Rock (8) RECEIVED: August 1986

SAMPLE(S) FROM: Mr. S. L. Masson, Quinterra Resources Inc.

PROJECT: Garnet 1414

Sample No.	Oz. Gold	Oz. Gold	(Metallic) Oz. Gold
051489	0.020	0.020	Trace
051492	0.002*	0.002*	Trace
051493	0.002*	Trace	Trace
36562	Trace	0.002*	Trace
36563	0.002*	0.002*	Trace
36564	0.002*	0.002*	Trace
36565	0.002*	0.006	Trace
36566	Trace	0.002*	Trace

* Estimated

rec'd aug 29/86 ln

BELL-WHITE ANALYTICAL LABORATORIES LTD.

PER

BELL-WHITE ANALYTICAL LABORATORIES LTD.
P.O. BOX 187, HAILEYBURY, ONTARIO TEL: 672-3107

Certificate of Analysis

NO. 1337 DATE: August 28, 1986

SAMPLE(S) OF: Rock (3) RECEIVED: August 1986

SAMPLE(S) FROM: Mr. S. L. Winter, Quinterra Resources

PROJECT: Garnet 1414

Sample No.	Gold ppb
051470	6
1	8
2	2

BELL-WHITE ANALYTICAL LABORATORIES LTD.

Per

BELL-WHITE ANALYTICAL LABORATORIES LTD.
P.O. BOX 187, HAILEYBURY, ONTARIO TEL: 672-3107

Certificate of Analysis

NO. 1314 DATE: August 27, 1986

SAMPLE(S) OF: Rock (38) RECEIVED: August 1986

SAMPLE(S) FROM: Mr. S. L. Masson, Quinterra Resources Inc.

PROJECT: Garnet 1414

Sample No.	Gold ppb
051473	2
4	3
5	3
6	45
7	2
8	8
9	82
051480	11
1	4
2	4
3	2
4	6
5	17
6	7
7	6
8	3
051490	11
1	40
051494	6

Sample No.	Gold ppb
051495	6
6	21
7	4
8	7
9	6
051500	6
36551	29
2	4
3	3
4	4
5	4
6	7
7	4
8	18
9	6
36560	3
1	3
36567	4
8	4

rec'd aug 29/86

IN ACCORDANCE WITH LONG-ESTABLISHED NORTH AMERICAN CUSTOM, UNLESS IT IS SPECIFICALLY STATED OTHERWISE GOLD AND SILVER VALUES REPORTED ON THESE SHEETS HAVE NOT BEEN ADJUSTED TO COMPENSATE FOR LOSSES AND GAINS INHERENT IN THE FIRE ASSAY PROCESS.

BELL-WHITE ANALYTICAL LABORATORIES LTD.

Per

BELL-WHITE ANALYTICAL LABORATORIES LTD.
P.O. BOX 187. HAILEYBURY, ONTARIO TEL: 672-3107

Certificate of Analysis

NO. 1338 DATE: August 28, 1986

SAMPLE(S) OF: Rock (8) RECEIVED: August 1986

SAMPLE(S) FROM: Mr. S. L. Masson, Quinterra Resources

PROJECT: Garnet 1414

Sample No.	Cu ppm
051489	1440
051492	94
3	400
36562	174
3	184
4	1460
5	500
6	114

COPY

RECEIVED
SEP 02 1986

BELL-WHITE ANALYTICAL LABORATORIES LTD.

Per

BELL - WHITE ANALYTICAL LABORATORIES LTD.
P.O. BOX 187, HAILEYBURY, ONTARIO TEL: 672-3107

Certificate of Analysis

NO. 1248 **DATE:** August 19, 1986

SAMPLE(S) OF: Rock (4) **RECEIVED:** August 1986

SAMPLE(S) FROM: Mr. Masson, Quinterra Resources Inc.

PROJECT: Garnet

Sample No.	Cu ppm	Zn ppm
052941	14	47
052943	150	84
052945	9400	15
052946	5800	10

rec'd aug 21/86

BELL-WHITE ANALYTICAL LABORATORIES LTD.

Per:

BELL - WHITE ANALYTICAL LABORATORIES LTD.
P.O. BOX 187, HAILEYBURY, ONTARIO TEL: 672-3107

Certificate of Analysis

NO. 1247 **DATE:** August 18, 1986

SAMPLE(S) OF: Rock (32) **RECEIVED:** August 1986

SAMPLE(S) FROM: Mr. Masson, Quinterra Resources

PROJECT: Garnet

Sample No.	Gold ppb	Oz. Gold
052919	159	
052920	6	
1	32	
2	8	
3	7	
4	7	
5	8	
6	10	
7	45	
8	8	
9	14	
052930	23	
1	17	
2	8	
3	10	
4	14	
5	12	
6	313	
7	75	
8	10	
9	54	
052940	8	
1	7	
2	14	
3	19	
4	8	
5	926**	
6	40	
7		0.144**
8	197	
9	484	
052950	34	

** Checked

rec'd aug 21/86

BELL-WHITE ANALYTICAL LABORATORIES LTD.

Per

IN ACCORDANCE WITH LONG-ESTABLISHED NORTH AMERICAN CUSTOM, UNLESS IT IS SPECIFICALLY STATED OTHERWISE GOLD AND SILVER VALUES REPORTED ON THESE SHEETS HAVE NOT BEEN ADJUSTED TO COMPENSATE FOR LOSSES AND GAINS INHERENT IN THE FIRE ASSAY PROCESS.

BELL-WHITE ANALYTICAL LABORATORIES LTD.
P.O. BOX 187, HAILEYBURY, ONTARIO TEL: 672-3107

Certificate of Analysis

NO. 0992 DATE: July 11, 1986

SAMPLE(S) OF: Rock (31) RECEIVED: July 1986

SAMPLE(S) FROM: Quinterra Resources Inc.

Garnet

1414

Sample No.	Gold ppb
86615	3
6	10
7	11
8	52
9	6
86620	6
1	29
2	14
3	4
4	12
5	15
6	6
7	3
8	11
9	6
86630	8
1	11
2	8
3	7
4	10
5	10
6	25
7	6
8	12
9	19
86640	7
1	3
2	3
3	7
4	6
5	8

rec'd July 15/86

IN ACCORDANCE WITH LONG-ESTABLISHED NORTH AMERICAN CUSTOM, UNLESS IT IS SPECIFICALLY STATED OTHERWISE GOLD AND SILVER VALUES REPORTED ON THESE SHEETS HAVE NOT BEEN ADJUSTED TO COMPENSATE FOR LOSSES AND GAINS INHERENT IN THE FIRE ASSAY PROCESS.

BELL-WHITE ANALYTICAL LABORATORIES LTD.

BELL-WHITE ANALYTICAL LABORATORIES LTD.
P.O. BOX 187, HAILEYBURY, ONTARIO TEL: 672-3107

Certificate of Analysis

NO. 1009 **DATE:** July 15, 1986

SAMPLE(S) OF: Rock (5) **RECEIVED:** July 1986

SAMPLE(S) FROM: Quinterra Resources Inc.

Garnet
1414

Sample No.	Ag ppm	Zn ppm
86630	0.2	102
1	0.4	150
2	0.4	97
3	0.8	99
4	1.0	79

rec'd July 16/86

IN ACCORDANCE WITH LONG-ESTABLISHED NORTH AMERICAN CUSTOM, UNLESS IT IS SPECIFICALLY STATED OTHERWISE GOLD AND SILVER VALUES REPORTED ON THESE SHEETS HAVE NOT BEEN ADJUSTED TO COMPENSATE FOR LOSSES AND GAINS INHERENT IN THE FIRE ASSAY PROCESS.

BELL-WHITE ANALYTICAL LABORATORIES LTD.

PER

EXPLORATION PROGRAM

GARNET TOWNSHIP PROPERTY

FOR

WESTERN PACIFIC ENERGY CORPORATION

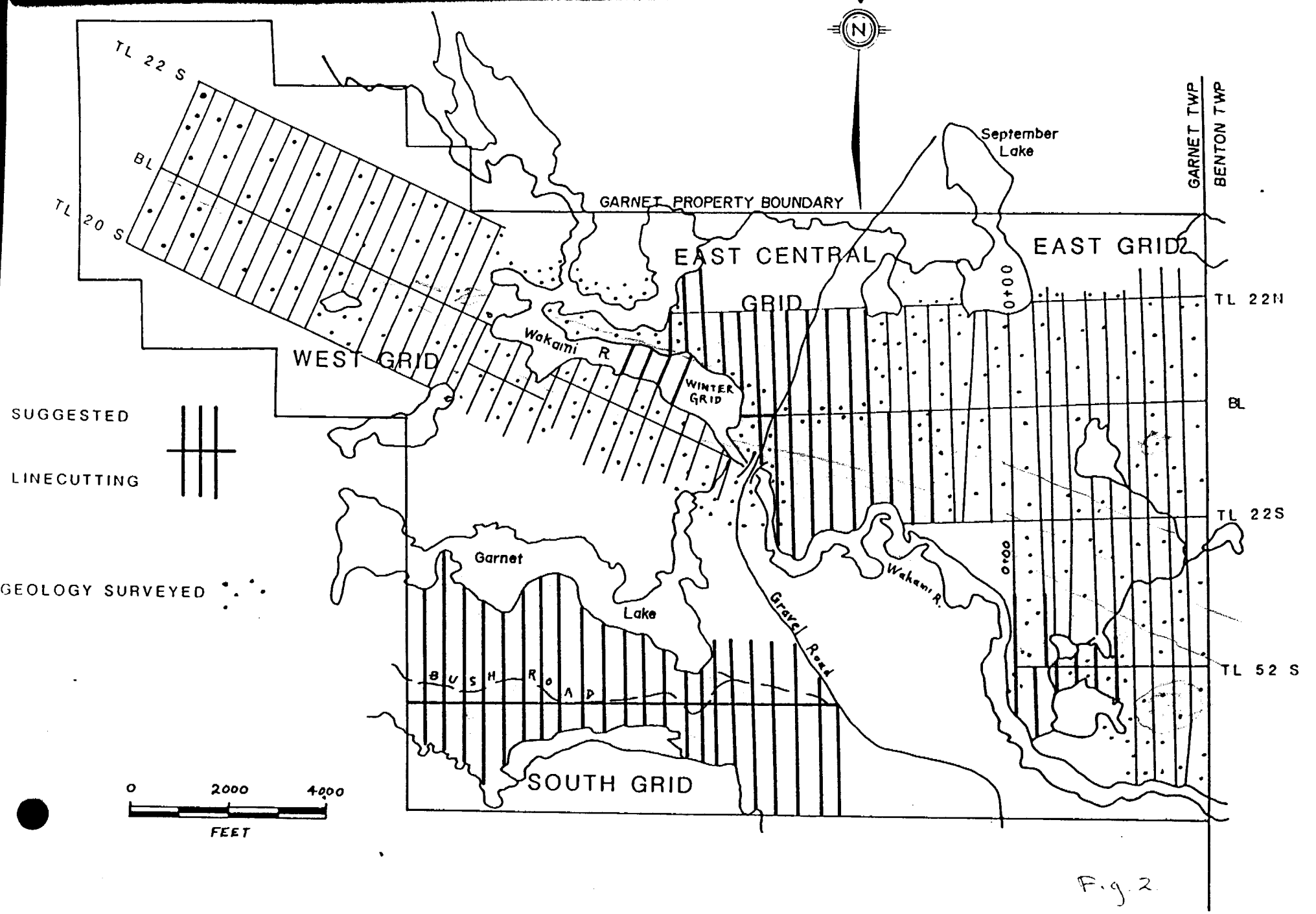

TL 22 S
BL
TL 20 S
WEST GRID
GARNET PROPERTY BOUNDARY
EAST CENTRAL GRID
EAST GRID
September Lake
GARNET TWP
BENTON TWP
0+00
TL 22N
BL
TL 22S
TL 52 S
Wakami R.
WINTER GRID
SUGGESTED
LINECUTTING
GEOLOGY SURVEYED
Garnet Lake
Gravel Road
BUSH ROAD
SOUTH GRID
0
2000
4000
FEET

Fig. 2

OM85-5-P-198

THIS SUBMITTAL CONSISTED OF VARIOUS REPORTS. SOME OF WHICH HAVE BEEN CULLED FROM THIS FILE. THE CULLED MATERIAL HAD BEEN PREVIOUSLY SUBMITTED UNDER THE FOLLOWING RECORD SERIES (THE DOCUMENTS CAN BE VIEWED IN THESE SERIES):

1) Diamond Drilling Programme Report → see main office file 2.9200

2) Geological Survey Report → see main office file 2.9422

76 W 72 W 68 W 64 W 60 W 56 W 52 W 48 W 44 W 40 W 36 W 32 W 28 W 24 W 20 W 16 W 12 W 8 W 4 W

20 N
16 N
12 N
8 N
4 N
0
4 S
8 S
12 S

G12

BASELINE

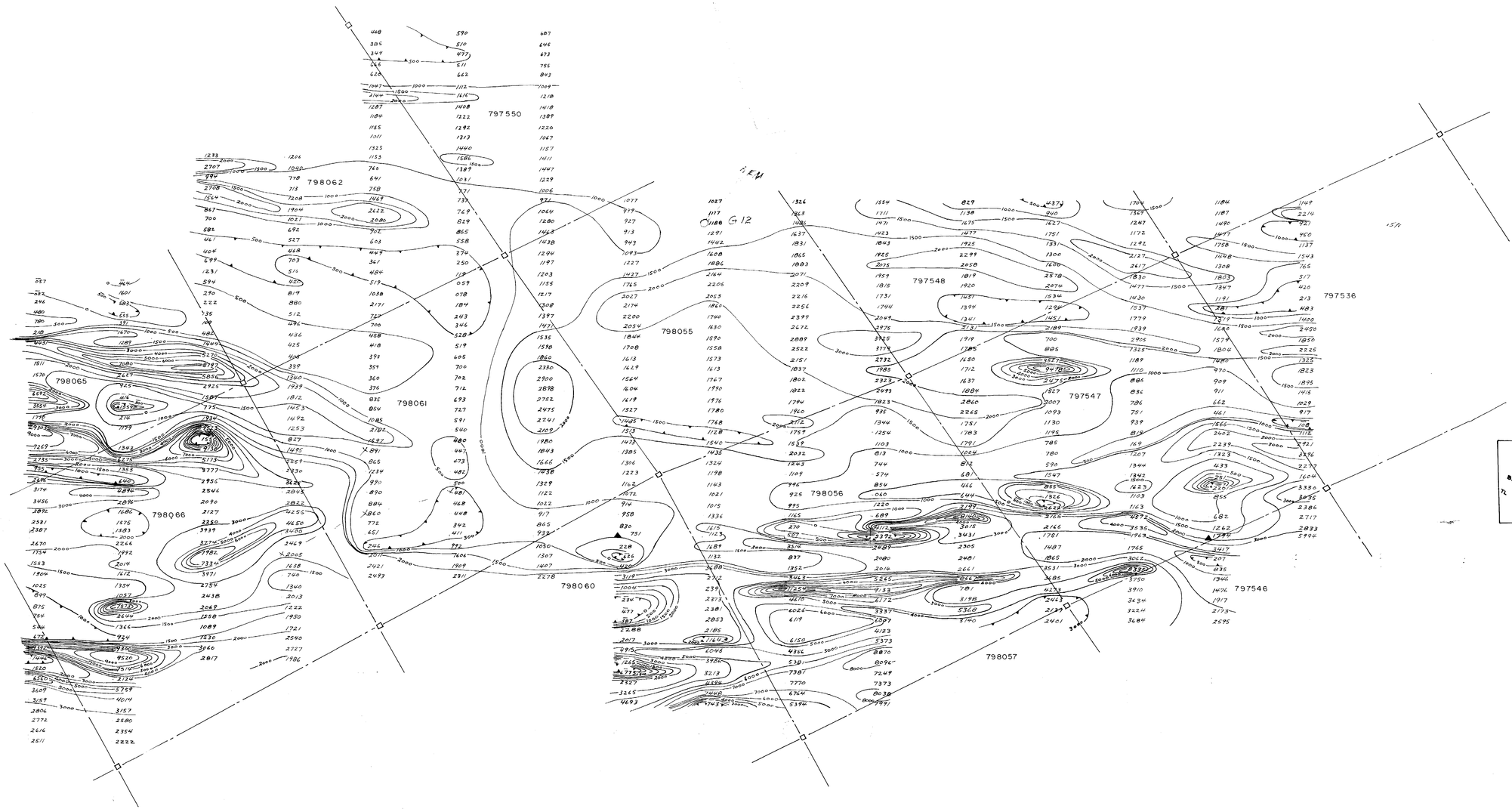
N

CONTOUR INTERVAL 500 γ

76W - 4W
22N - 12S

63.4733
OM85-198

WESTERN PACIFIC ENERGY CORP.		
GARNET PROPERTY		
PROTON GROUND MAG. WEST GRID		
Scale: 1" = 200' (0, 125, 250, 500, 1000)	Date: DEC. 1985	Drawn By: D.G.I. D.K.S.



MAGNETOMETER SURVEY

TOTAL FIELD IN nT EQUALS 58000 PLUS PLOTTED VALUES

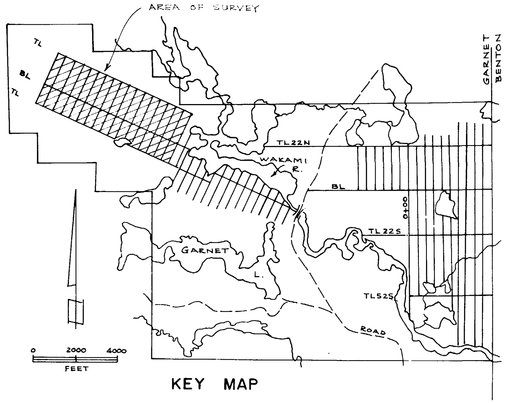
MAGNETIC DEPRESSION

CONTOUR INTERVALS: 500 AND 1000 nT

BASE STATIONS: BL : L48W 58751 (751 nT)
▲ BL : L20W 59794 (1794 nT)

INSTRUMENT: SCINTREX MP-2
PROTON MAGNETOMETER

FIELD WORK: EXSICS EXPLORATION LTD.



KEY MAP

10 S - 10 N
7 W - 16 W

63.4733
OM85-198

WESTERN PACIFIC ENERGY-CORP.		
GARNET PROPERTY		
MAGNETOMETER SURVEY		
SCALE 1" = 200'	DATE JAN. 1986	DRAWN BY S. WINTER

MAGNETOMETER SURVEY

TOTAL MAGNETIC FIELD IN nT EQUALS 58000 PLUS PLOTTED VALUE

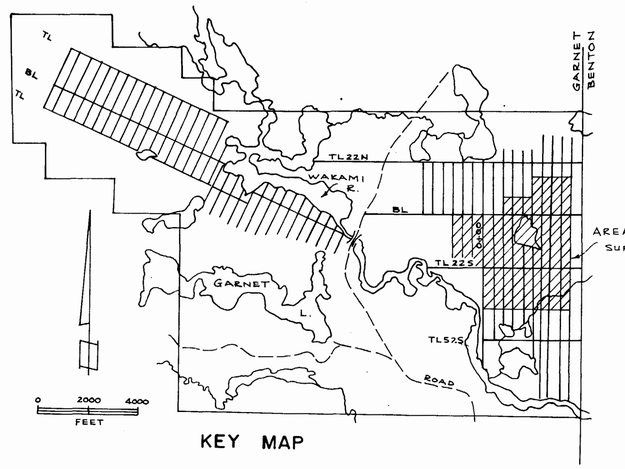
MAGNETIC DEPRESSION

CONTOUR INTERVAL : 100, 500, 1000 nT.

BASE STATION : STL & LO 59352 nT. (1352 nT)

INSTRUMENT : SCINTREX MP-2 PROTON MAGNETOMETER

FIELD WORK: EXSICS EXPLORATION LTD.



KEY MAP

16N-BLO - 38S
12W - 36E

63.4733
OM85-198

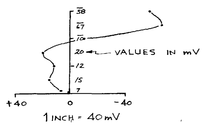
WESTERN PACIFIC ENERGY CORP.		
GARNET PROPERTY		
MAGNETOMETER SURVEY		
SCALE 1" = 200'	DATE JAN, 1986	DRAWN BY S. WINTER

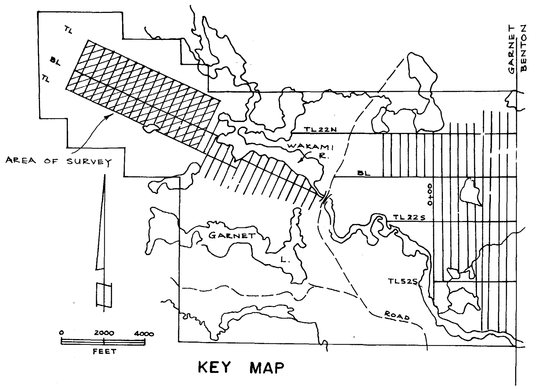
SELF POTENTIAL SURVEY

OPERATING MODE: REAR ELECTRODE FIXED AT BASE STATION AND FRONT ELECTRODE MOVED.

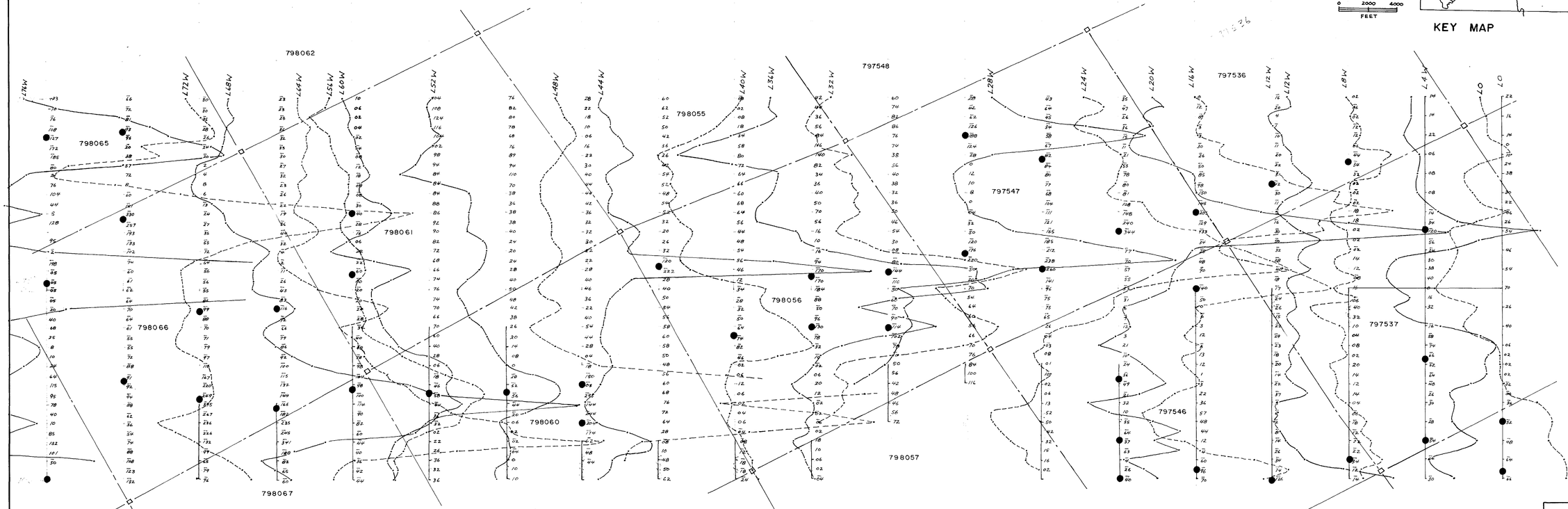
PLOTTED VALUE IS POTENTIAL DIFFERENCE BETWEEN BASE STATION AND FRONT ELECTRODE VALUES ARE IN mV.

● ANOMALOUS AREA





KEY MAP



10N-10S
7EW-7E

63.4733

OM85-198

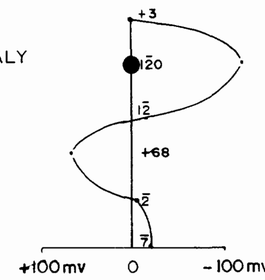
WESTERN PACIFIC ENERGY CORP.		
GARNET PROPERTY		
SELF POTENTIAL SURVEY		
SCALE 1" = 200'	DATE JAN., 1986	DRAWN BY S. WINTER

SELF POTENTIAL SURVEY

SURVEY DONE USING GRADIENT MODE

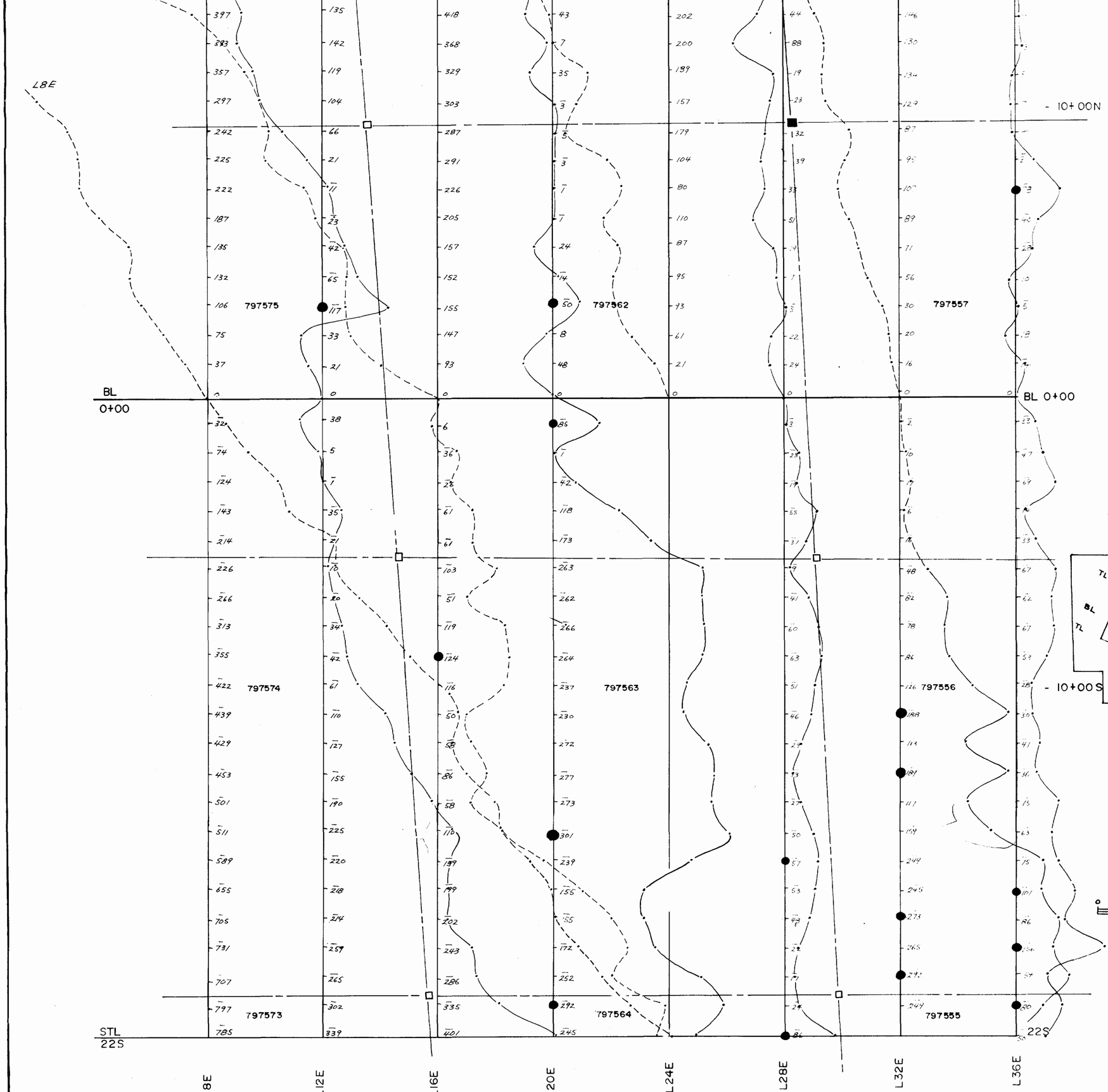
POT SEPARATION 100 FEET

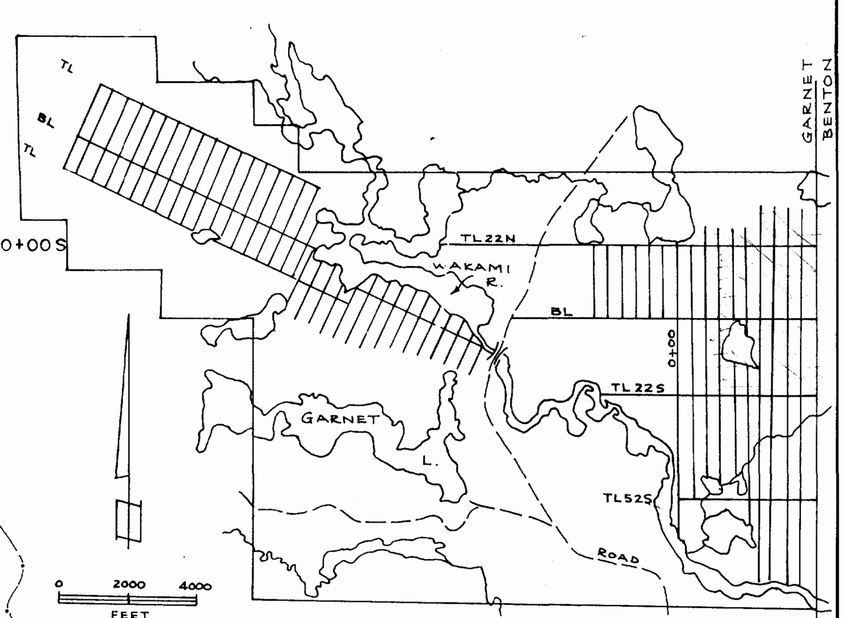
S.P. ANOMALY



1" INCH= 100mv

FIELD WORK: EXSICS EXPLORATION LTD.



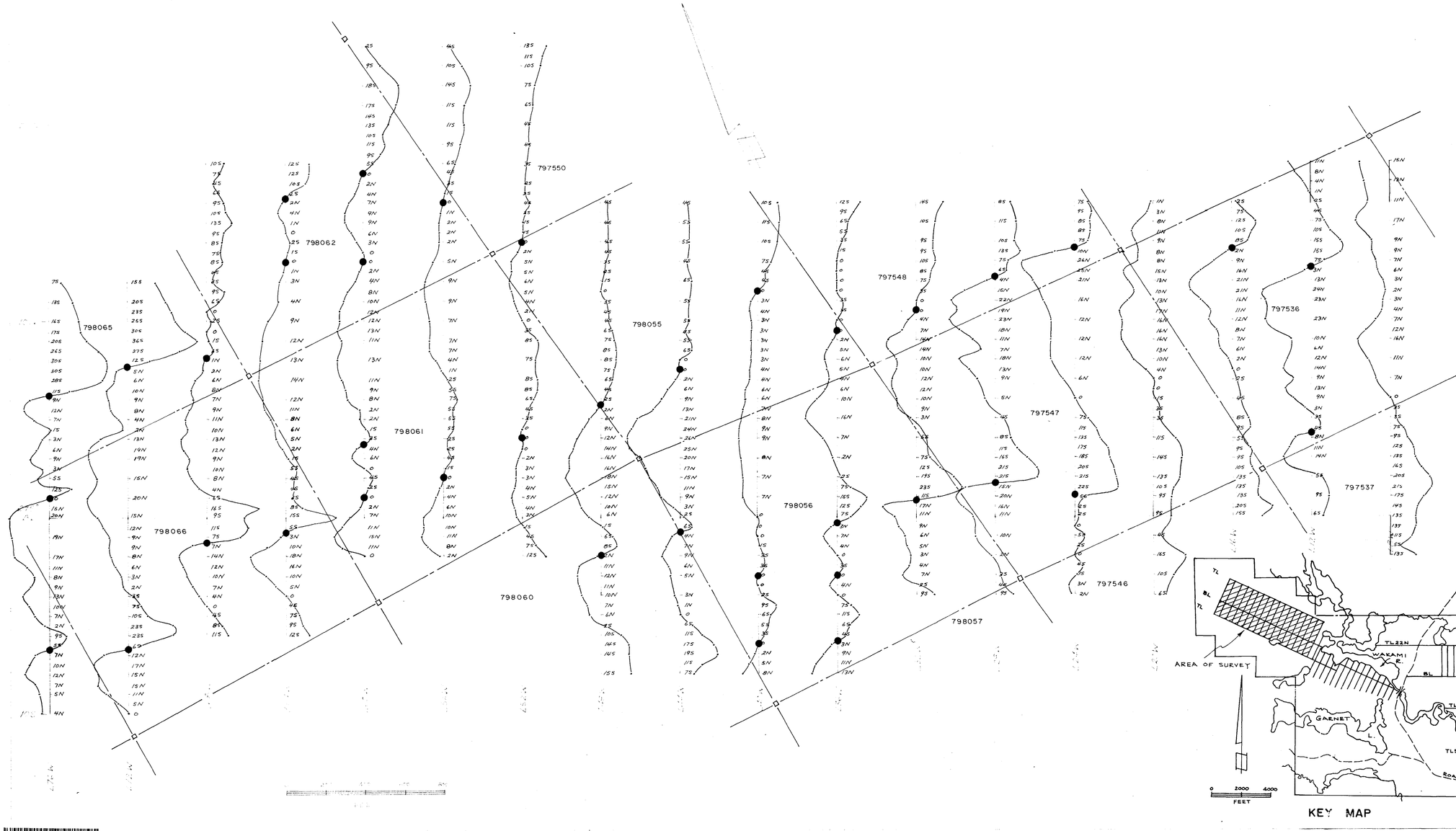


KEY MAP

32N - 22S
8E - 36E

63.4733
OM85-198

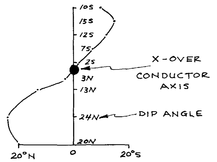
WESTERN PACIFIC ENERGY CORP.		
GARNET PROPERTY		
SELF POTENTIAL SURVEY		
SCALE 1"= 200'	DATE JAN, 1986	DRAWN BY S. WINTER



VLF-EM SURVEY

TRANSMITTER: CUTLER, MAINE (NAA)
24.0 KHz

INSTRUMENT: CRONE RADEM
VLF RECEIVER



FIELD WORK: EXSICS EXPLORATION LTD.

10 S - 24 W 63.4733
76 W - 8 W OM85-198

WESTERN PACIFIC ENERGY CORP.		
GARNET PROPERTY		
VLF-EM SURVEY		
SCALE 1" = 200'	DATE JAN, 1986	DRAWN BY S. WINTER

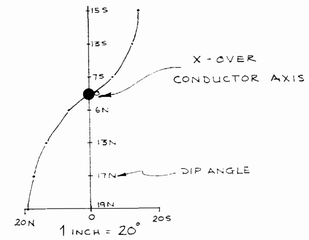
798046
798033
797504
798034
798035
797573
797572
797574
797575
797561
797562
797563
797564
797558
797557
797556
797555

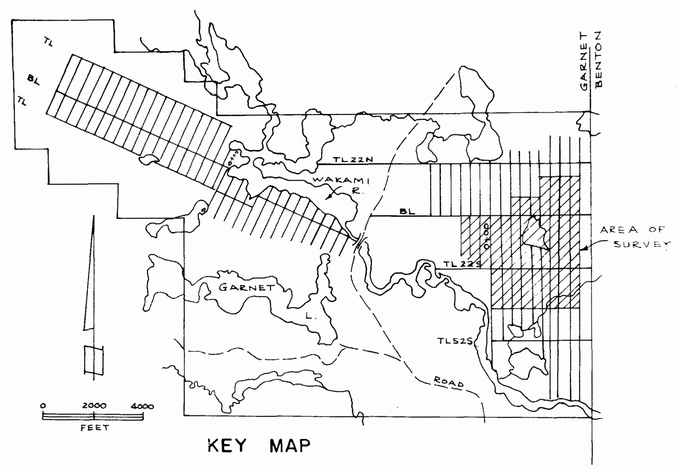
LEGEND

TRANSMITTER: CUTLER, MAINE (NAA) 24.0 KHz

INSTRUMENT: CRONE RADEM VLF RECEIVER

FIELD WORK: EXSICS EXPLORATION LTD.





KEY MAP

16N-38E
12W-36E

63.4733
OM85-198

WESTERN PACIFIC ENERGY CORP.		
GARNET PROPERTY		
VLF-EM SURVEY		
SCALE 1" = 200'	DATE JAN, 1986	DRAWN BY S. WINTER

MAGNETOMETER SURVEY

TOTAL MAGNETIC FIELD IN nT EQUALS PLOTTED VALUE PLUS 58000 nT.

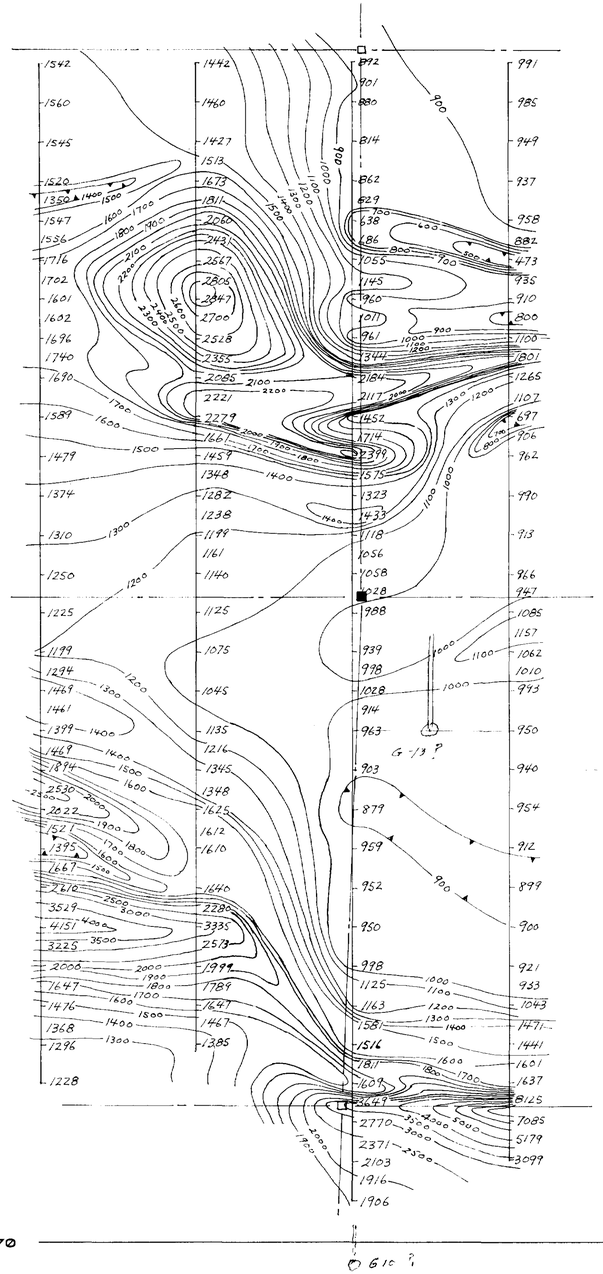
MAGNETIC DEPRESSION

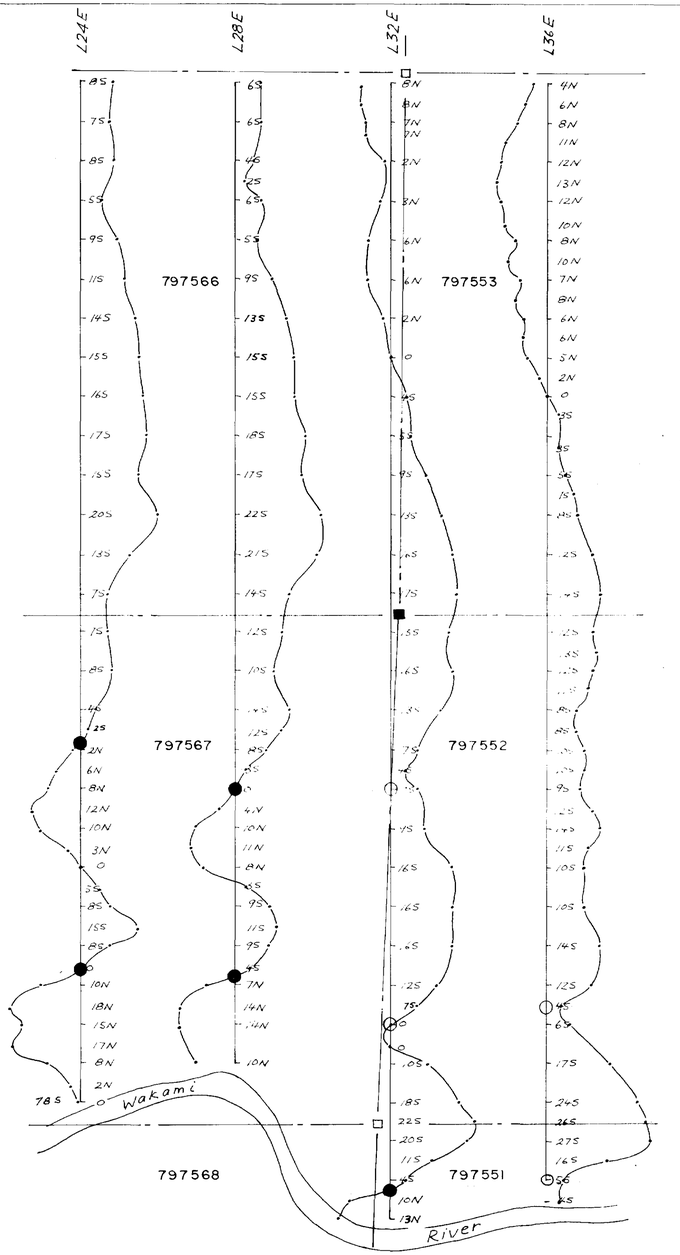
CONTOUR INTERVALS 100, 500, 1000 nT.

BASE STATION : STL & LO 59352 nT

INSTRUMENT: SCINTREX MP-2 PROTON MAGNETOMETER

FIELD WORK: EXSICS EXPLORATION LTD.

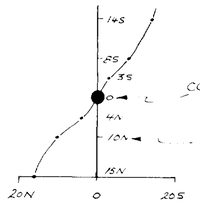




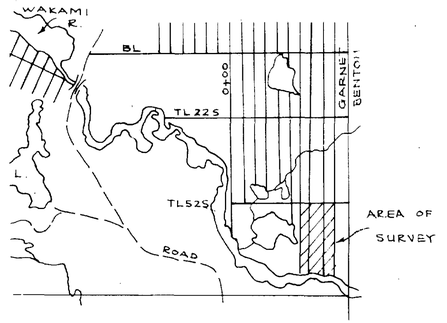
VLF-EM SURVEY

TRANSMITTER: CUTLER, MAINE (NAA) 24.0 KHz.

INSTRUMENT: CRONE RADEM VLF RECEIVER



FIELD WORK: EXSICS EXPLORATION LTD.



KEY MAP
52S - 81S
24E - 36E

63.4733
OM 85-198

WESTERN PACIFIC ENERGY CORP.		
GARNET PROPERTY		
MAGNETOMETER SURVEY VLF-EM SURVEY		
SCALE 1" = 200'	DATE JAN, 1986	DRAWN BY S WINTER

BELL - W
P.O. BOX 187.

41009NW0084 2.9422 GARNET

010

Certificate of Analysis

NO. 0992

DATE: July 11, 1986

SAMPLE(S) OF: Rock (31)

RECEIVED: July 1986

SAMPLE(S) FROM: Quinterra Resources Inc.

Garnet-1414

Sample No.	Gold ppb
86615	3
6	10
7	11
8	52
9	6
86620	6
1	29
2	14
3	4
4	12
5	15
6	6
7	3
8	11
9	6
86630	8
1	11
2	8
3	7
4	10
5	10
6	25
7	6
8	12
9	19
86640	7
1	3
2	3
3	7
4	6
5	8

IN ACCORDANCE WITH LONG-ESTABLISHED NORTH AMERICAN CUSTOM UNLESS IT IS SPECIFICALLY STATED OTHERWISE GOLD AND SILVER VALUES REPORTED ON THESE SHEETS HAVE NOT BEEN ADJUSTED TO COMPENSATE FOR LOSSES AND GAINS INHERENT IN THE FIRE ASSAY PROCESS.

BELL-WHITE ANALYTICAL LABORATORIES LTD

Per

2.9422

BELL-WHITE ANALYTICAL LABORATORIES LTD.
P.O. BOX 187, HAILEYBURY, ONTARIO TEL: 672-3107

Certificate of Analysis

NO. 1009 **DATE:** July 15, 1986

SAMPLE(S) OF: Rock (5) **RECEIVED:** July 1986

SAMPLE(S) FROM: Quinterra Resources Inc.

Sample No.	Ag ppm	Zn ppm
86630	0.2	102
1	0.4	150
2	0.4	97
3	0.8	99
4	1.0	79

IN ACCORDANCE WITH LONG-ESTABLISHED NORTH AMERICAN CUSTOM, UNLESS IT IS SPECIFICALLY STATED OTHERWISE GOLD AND SILVER VALUES REPORTED ON THESE SHEETS HAVE NOT BEEN ADJUSTED TO COMPENSATE FOR LOSSES AND GAINS INHERENT IN THE FIRE ASSAY PROCESS

BELL-WHITE ANALYTICAL LABORATORIES LTD.

PER

BELL-WHITE ANALYTICAL LABORATORIES LTD.
P.O. BOX 187. HAILEYBURY, ONTARIO TEL: 672-3107

Certificate of Analysis

NO. 1315 DATE: August 27, 1986

SAMPLE(S) OF: Rock (8) RECEIVED: August 1986

SAMPLE(S) FROM: Mr. S. L. Masson, Quinterra Resources Inc.

PROJECT: Garnet 1414

Sample No.	Oz. Gold	Oz. Gold	(Metallic) Oz. Gold
051489	0.020	0.020	Trace
051492	0.002*	0.002*	Trace
051493	0.002*	Trace	Trace
36562	Trace	0.002*	Trace
36563	0.002*	0.002*	Trace
36564	0.002*	0.002*	Trace
36565	0.002*	0.006	Trace
36566	Trace	0.002*	Trace

* Estimated

rec'd aug 29/86 fn

BELL-WHITE ANALYTICAL LABORATORIES LTD.

BELL-WHITE ANALYTICAL LABORATORIES LTD.
P.O. BOX 187. HAILEYBURY, ONTARIO TEL: 672-3107

Certificate of Analysis

NO. 1337 DATE: August 28, 1986

SAMPLE(S) OF: Rock (3) RECEIVED: August 1986

SAMPLE(S) FROM: Mr. S. L. Winter, Quinterra Resources

PROJECT: Garnet 1414

Sample No.	Gold ppb
051470	6
1	8
2	2

BELL-WHITE ANALYTICAL LABORATORIES LTD.

BELL-WHITE ANALYTICAL LABORATORIES LTD.
P.O. BOX 187. HAILEYBURY, ONTARIO TEL: 672-3107

Certificate of Analysis

NO. 1314 DATE: August 27, 1986

SAMPLE(S) OF: Rock (38) RECEIVED: August 1986

SAMPLE(S) FROM: Mr. S. L. Masson, Quinterra Resources Inc.

PROJECT: Garnet 1414

Sample No.	Gold ppb
051473	2
4	3
5	3
6	45
7	2
8	8
9	82
051480	11
1	4
2	4
3	2
4	6
5	17
6	7
7	6
8	3
051490	11
1	40
051494	6

Sample No.	Gold ppb
051495	6
6	21
7	4
8	7
9	6
051500	6
36551	29
2	4
3	3
4	4
5	4
6	7
7	4
8	18
9	6
36560	3
1	3
36567	4
8	4

rec'd aug 29/86

IN ACCORDANCE WITH LONG-ESTABLISHED NORTH AMERICAN CUSTOM, UNLESS IT IS SPECIFICALLY STATED OTHERWISE GOLD AND SILVER VALUES REPORTED ON *THESE SHEETS HAVE NOT BEEN ADJUSTED TO COMPENSATE* FOR LOSSES AND GAINS INHERENT IN THE FIRE ASSAY PROCESS.

BELL-WHITE ANALYTICAL LABORATORIES LTD.

BELL - WHITE ANALYTICAL LABORATORIES LTD.
P.O. BOX 187, HAILEYBURY, ONTARIO TEL: 672-3107

Certificate of Analysis

NO. 1247 DATE: August 18, 1986

SAMPLE(S) OF: Rock (32) RECEIVED: August 1986

SAMPLE(S) FROM: Mr. Masson, Quinterra Resources

PROJECT: Garnet

Sample No.	Gold ppb	Oz. Gold
052919	159	
052920	6	
1	32	
2	8	
3	7	
4	7	
5	8	
6	10	
7	45	
8	8	
9	14	
052930	23	
1	17	
2	8	
3	10	
4	14	
5	12	
6	313	
7	75	
8	10	
9	54	
052940	8	
1	7	
2	14	
3	19	
4	8	
5	926**	
6	40	
7		0.144**
8	197	
9	484	
052950	34	

** Checked

rec'd aug 21/86

BELL-WHITE ANALYTICAL LABORATORIES LTD.

BELL - WHITE ANALYTICAL LABORATORIES LTD.
P.O. BOX 187. HAILEYBURY, ONTARIO TEL: 672-3107

Certificate of Analysis

NO. 1248 DATE: August 19, 1986

SAMPLE(S) OF: Rock (4) RECEIVED: August 1986

SAMPLE(S) FROM: Mr. Masson, Quinterra Resources Inc.

PROJECT: Garnet

Sample No.	Cu ppm	Zn ppm
052941	14	47
052943	150	84
052945	9400	15
052946	5800	10

rec'd aug 21/86

BELL-WHITE ANALYTICAL LABORATORIES LTD.

NORAMCO EXPLORATIONS INC.

Suite 900 - 999 West Hastings Street
Vancouver, B.C.
V6C 2W2

Telephone: (604) 689 - 1428

September 16, 1986

Ministry of Natural Resources
Rm. 2548, Whitney Block,
99 Wellesley Street W.
Toronto, Ontario
M7A 1W3

Dear Sirs;

We confirm payment of the following invoices pertaining to the Garnet Property of Western Pacific Energy Corporation.

Bell-White Analytical Laboratories Ltd.	inv. 21147	$ 12.00	pd. 8/29/86	chq.182
	21145	352.00	8/29/86	182
	21240	49.00	9/15/86	291
	21226	674.00	9/15/86	291
	20846	341.00	9/15/86	291
	20868	15.00	9/15/86	291

Stephen L. Masson
August 22/86 invoice fee - $5950.00
- expenses $1774.62 less $600.00 advance
- paid 8/29/86 chq. 183
Sept. 2/86 invoice $1350.00 pd. 9/15/86 chq 292

Should more information be required, please don't hesitate to contact us.

Sincerely,

NORAMCO EXPLORATIONS INC.

J. W. MacKenzie, C.A.
Controller

JWM/fm

BELL-WHITE ANALYTICAL LABORATORIES LTD.

P.O. BOX 187 HAILEYBURY, ONTARIO TEL: (705) 672-3107
P0J 1K0

Quinterra Resources Inc.
321 Algonquin Avenue
NORTH BAY, Ontario
P1B 4W1

INVOICE Nº 21147

ORDER NO.

DATE August 19, 1986

PROJECT: Garnet

CERTIFICATE NO.	DATE	DESCRIPTION	AMOUNT
1248	Aug. 19/86	4 Cu @ $2.00 4 Zn @ $1.00	$ 8.00 4.00
			$12.00

PAID

BELL-WHITE ANALYTICAL LABORATORIES LTD.

P.O. BOX 187 HAILEYBURY, ONTARIO TEL: (705) 672-3107
POJ 1KO

Quinterra Resources Inc.
321 Algonquin Avenue
NORTH BAY, Ontario
P1B 4W1

INVOICE Nº 21147

ORDER NO.

DATE August 19, 1986

PROJECT: Garnet

CERTIFICATE NO.	DATE	DESCRIPTION	AMOUNT
1248	Aug. 19/86	4 Cu @ $2.00 4 Zn @ $1.00	$ 8.00 4.00
			$12.00

PAID

BELL-WHITE ANALYTICAL LABORATORIES LTD.

P.O. BOX 187 HAILEYBURY, ONTARIO TEL: (705) 672-3107
P0J 1K0

Quinterra REsources Inc.
321 Algonquin Avenue
NORTH BAY, Ontario
P1B 4W1

INVOICE Nº 21145

ORDER NO.

DATE August 18, 1986

PROJECT: Garnet

CERTIFICATE NO.	DATE	DESCRIPTION	AMOUNT
1247	Aug. 18/86	32 Au @ $8.50	$ 272.00
		32 Sample Preparations @ $2.50	80.00
			$ 352.00

PAID

BELL-WHITE ANALYTICAL LABORATORIES LTD.

P.O. BOX 187 HAILEYBURY, ONTARIO TEL: (705) 672-3107
P0J 1K0

Quinterra REsources Inc.
321 Algonquin Avenue
NORTH BAY, Ontario
P1B 4W1

INVOICE Nº 21145

ORDER NO.

DATE August 18, 1986

PROJECT: Garnet

CERTIFICATE NO.	DATE	DESCRIPTION	AMOUNT
1247	Aug. 18/86	32 Au @ $8.50	$ 272.00
		32 Sample Preparations @ $2.50	80.00
			$ 352.00

PAID

BELL-WHITE ANALYTICAL LABORATORIES LTD.

P.O. BOX 187 HAILEYBURY, ONTARIO TEL: (705) 672-3107
P0J 1K0

INVOICE Nº 21240

Quinterra Resources
1275 Main Street West
NORTH BAY, Ontario
P1B 2W7

ORDER NO.

DATE August 28, 1986

PROJECT: Garnet 1414

CERTIFICATE NO.	DATE	DESCRIPTION	AMOUNT
1337	Aug. 28/86	3 Au @ $8.50 3 Sample Preparations @ $2.50	$ 25.50 7.50
			$ 33.00
1338	Aug. 28/86	8 Cu @ $2.00	$ 16.00
		TOTAL INVOICE:	$ 49.00

RECEIVED
SEP 02 1986

BELL-WHITE ANALYTICAL LABORATORIES LTD.

P.O. BOX 187 HAILEYBURY, ONTARIO TEL: (705) 672-3107
P0J 1K0

INVOICE Nº 21240

Quinterra Resources
1275 Main Street West
NORTH BAY, Ontario
P1B 2W7

ORDER NO.

DATE August 28, 1986

PROJECT: Garnet 1414

CERTIFICATE NO.	DATE	DESCRIPTION	AMOUNT
1337	Aug. 28/86	3 Au @ $8.50 3 Sample Preparations @ $2.50	$ 25.50 7.50
			$ 33.00
1338	Aug. 28/86	8 Cu @ $2.00	$ 16.00
		TOTAL INVOICE:	$ 49.00

RECEIVED
SEP 02 1986

BELL - WHITE, ANALYTICAL LABORATORIES LTD.

P.O. BOX 187 HAILEYBURY, ONTARIO TEL: (705) 672-3107
P0J 1K0

Quinterra Resources Inc.
1275 Main Street West
NORTH BAY, Ontario
P1B 2W7

INVOICE NO. 20846

ORDER NO.

DATE July 11, 1986

CERTIFICATE NO.	DATE	DESCRIPTION	AMOUNT
0992	July 11/86	31 Au @ $8.50	$ 263.50
		31 Sample Preparations @ $2.50	77.50
			$ 341.00

Cancel
11/14-530

COPY

BELL-WHITE, ANALYTICAL LABORATORIES LTD.

P.O. BOX 187 HAILEYBURY, ONTARIO TEL: (705) 672-3107
P0J 1K0

Quinterra Resources Inc.
1275 Main Street West
NORTH BAY, Ontario
P1B 2W7

INVOICE NO. 20846

ORDER NO.

DATE July 11, 1986

CERTIFICATE NO.	DATE	DESCRIPTION	AMOUNT
0992	July 11/86	31 Au @ $8.50	$ 263.50
		31 Sample Preparations @ $2.50	77.50
			$ 341.00

Lucnet
M/M-530

COPY

BELL-WHITE ANALYTICAL LABORATORIES LTD.

P.O. BOX 187 HAILEYBURY, ONTARIO TEL: (705) 672-3107
P0J 1K0

Quinterra Resources Inc.
1275 Main Street West
NORTH BAY, Ontario
P1B 2W7

INVOICE NO 20868

ORDER NO.

DATE July 15, 1986

CERTIFICATE NO.	DATE	DESCRIPTION	AMOUNT
1009	July 15/86	5 Ag @ $2.00 5 An @ $1.00	$ 10.00 5.00
			$ 15.00

COPY

BELL-WHITE ANALYTICAL LABORATORIES LTD.

P.O. BOX 187 HAILEYBURY, ONTARIO TEL: (705) 672-3107
P0J 1K0

Quinterra Resources Inc.
1275 Main Street West
NORTH BAY, Ontario
P1B 2W7

INVOICE NO. 20868

ORDER NO.

DATE July 15, 1986

CERTIFICATE NO.	DATE	DESCRIPTION	AMOUNT
1009	July 15/86	5 Ag @ $2.00 5 An @ $1.00	$ 10.00 5.00
			$ 15.00

COPY

BELL-WHITE ANALYTICAL LABORATORIES LTD.

P.O. BOX 187 HAILEYBURY, ONTARIO TEL: (705) 672-3107
POJ 1KO

Quinterra Resources Inc.
1275 Main Street West
NORTH BAY, Ontario
P1B 2W7

INVOICE Nº 21226

ORDER NO.

DATE August 27, 1986

PROJECT: Garnet 1414

CERTIFICATE NO.	DATE	DESCRIPTION	AMOUNT
1314	Aug. 27/86	38 Au @ $8.50	$ 323.00
		38 Sample Preparations @ $2.50	95.00
			$ 418.00
1315	Aug. 27/86	8 Au @ $17.00	$ 136.00
		8 Sample Preparations @ $15.00	120.00
			$ 256.00
		TOTAL INVOICE:	$ 674.00

rec'd aug 29/86

BELL-WHITE ANALYTICAL LABORATORIES LTD.

P.O. BOX 187 HAILEYBURY. ONTARIO TEL: (705) 672-3107
POJ 1KO

Quinterra Resources Inc.
1275 Main Street West
NORTH BAY, Ontario
P1B 2W7

INVOICE Nº 21226

ORDER NO.

DATE August 27, 1986

PROJECT: Garnet 1414

CERTIFICATE NO.	DATE	DESCRIPTION	AMOUNT
1314	Aug. 27/86	38 Au @ $8.50	$ 323.00
		38 Sample Preparations @ $2.50	95.00
			$ 418.00
1315	Aug. 27/86	8 Au @ $17.00	$ 136.00
		8 Sample Preparations @ $15.00	120.00
			$ 256.00
		TOTAL INVOICE:	$ 674.00

rec'd aug 29/86

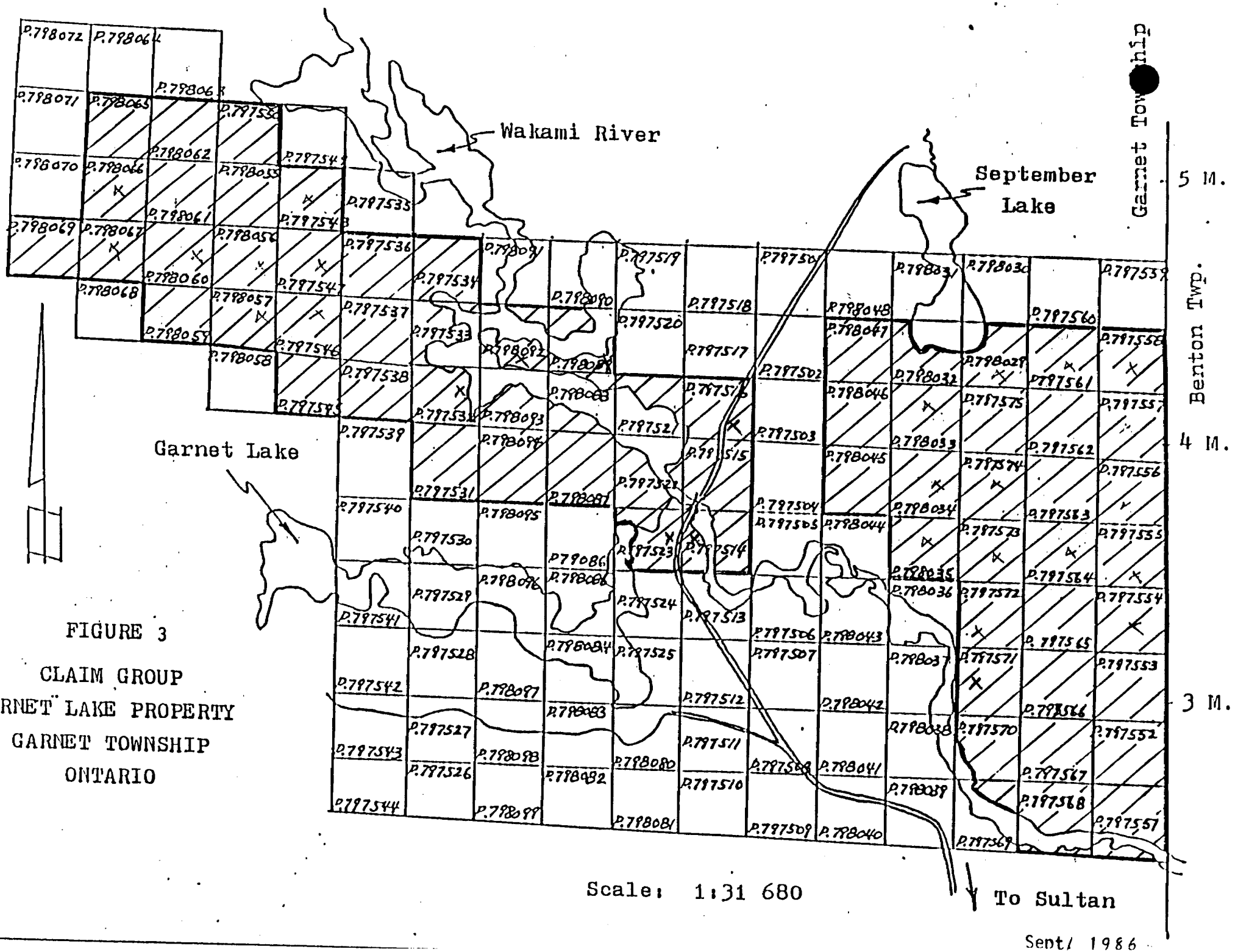


FIGURE 3

CLAIM GROUP
GARNET LAKE PROPERTY
GARNET TOWNSHIP
ONTARIO

Scale: 1:31 680

Sept/ 1986

020

GEOLOGICAL SURVEY REPORT

ON THE

GARNET LAKE PROPERTY

GARNET TOWNSHIP

DISTRICT OF SUDBURY

ONTARIO

FOR

WESTERN PACIFIC ENERGY CORPORATION

S.L. Masson
B.Sc., M.Sc., F.G.A.C.
September 5, 1986

TABLE OF CONTENTS

020C

1. INTRODUCTION

The writer was requested on behalf of Western Pacific Energy Corporation to conduct a geological survey over a portion of their group of 133 unpatented mining claims in east-central Garnet Township. The area covered (figure 2) occurs in the southern portion of the Swayze Greenstone belt of northeastern Ontario (Figure 1). The following report describes the geology of the area covered, outlines local areas of economic interest and disinterest, and offers recommendations for further work.

2. SUMMARY AND RECOMMENDATIONS

The writer conducted a geological survey over the Garnet Lake property during parts of July and August 1986. A major NW trending regional shear and alteration zone was found flanking the north side of a major belt of iron formations. Stress compliment NE cross faults 80° to the major NW shear zone and a veined filled fracture system trending N 10° E perpendicular to the major stress pattern were also found.

A discovery of gold in iron formation was made in an outcrop on the west side of the main gravel road 1500 feet north of the Wakami River bridge. Gold values up to 0.14 oz. were obtained from a vein trending N 10° in the area where a cross fault structure is thought to cut the iron formation.

It may be that the intersection of cross structures with favourable stratigraphy such as iron formation or graphitic horizons are a favourable location for mineralization. Furthermore should cross structures cut across favourable stratigraphy where it is parallel or sub-parallel to the structure or where favourable lithologies especially iron formations are folded larger areas of mineralization could be expected. In consideration of the above and other factors contained in this report the following recommendations are offered.

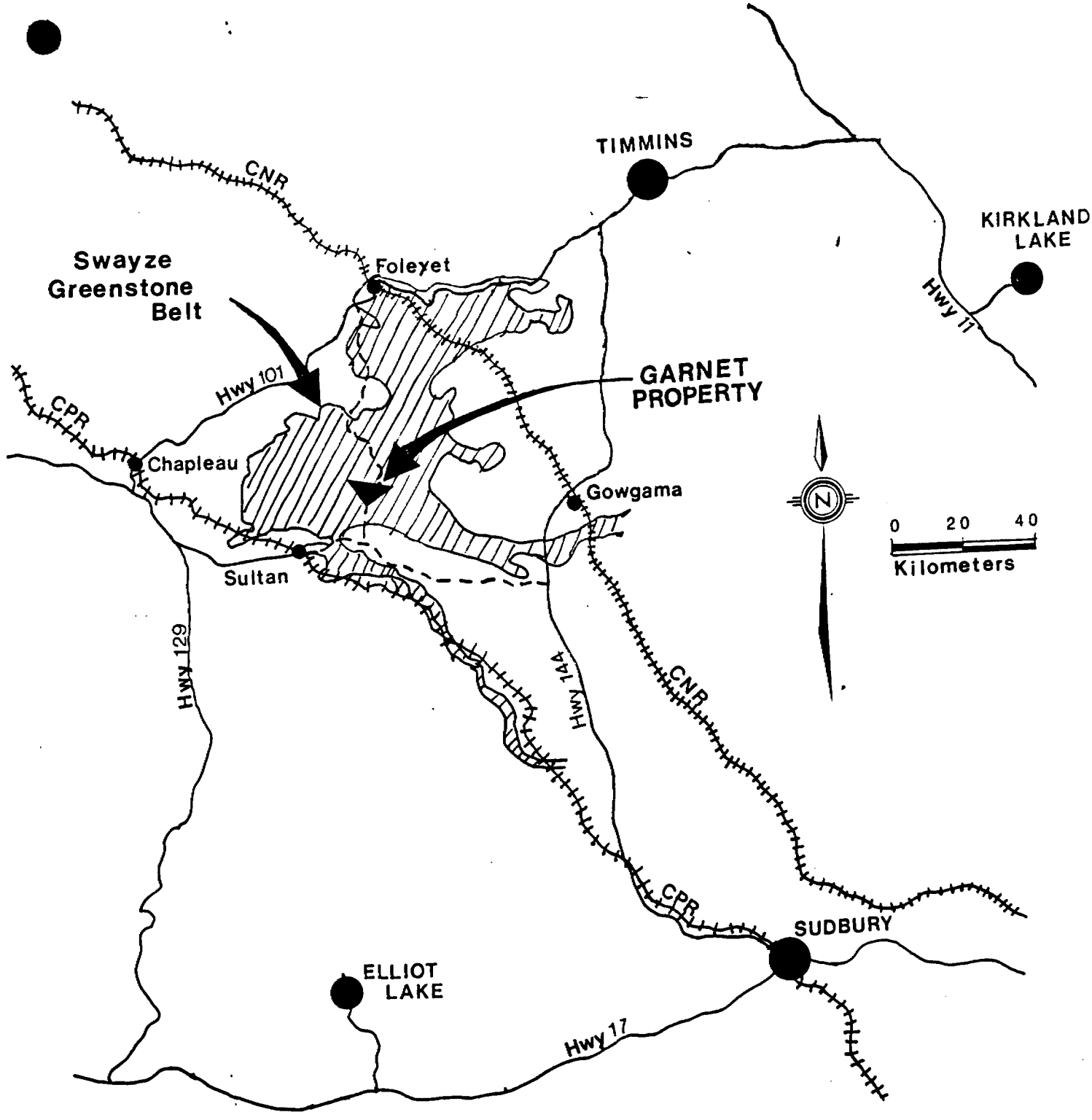


FIGURE 1

LOCATION MAP

GARNET PROPERTY

1. The Au showing in iron formation north of the Wakami River bridge should be trenched, sampled, and mapped to determine the extent, grade and controls of the mineralization.

2. a) Additional grid lines should be cut as shown in Figure 5 (tentatively called the east central grid) to cover the belt of iron formations east and west of the Au showing.

   b) A Mag-VLF survey should be carried out over this new grid to outline the iron formations and to look for cross-structures.

   c) The grid should be mapped and prospected for additional outcrop areas of iron formation.

3. A winter grid should be put over the river in the area of veining in outcrop on the north shore of the Wakami River - West Central Grid. A magnetometer survey of 2 to 3 lines should be done to locate the iron formation beneath the river on strike with the vein or other cross structures.

4. A new grid, tentatively called the south grid could be cut to cover the IF south of Garnet Lake. VLF and Mag surveys should be carried out to locate the nose of the folded IF and to locate cross-structures.

5. Additional short lines as shown in Figure 5 should be cut about the tie line 52S from 4E to 16E. A VLF and Mag survey should be carried out over the area from L0 to L20E to tie in the folded graphitic iron formation.

6. Depending on survey results and what is learned from work recommended in 1 and 2 a small drill program should be carried out to test the following targets:

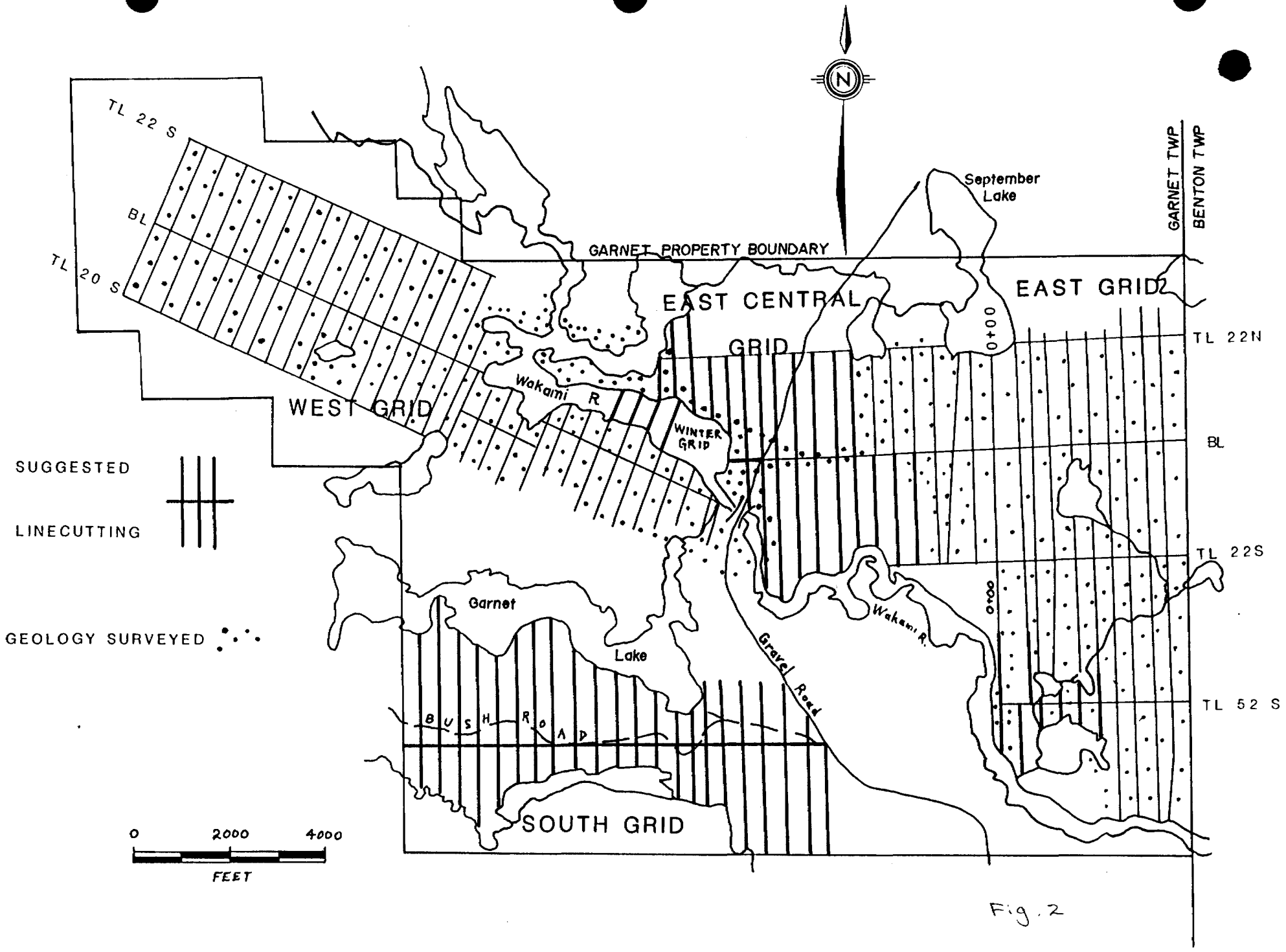

TL 22 S
BL
TL 20 S
WEST GRID
GARNET PROPERTY BOUNDARY
EAST CENTRAL GRID
EAST GRID
September Lake
GARNET TWP
BENTON TWP
TL 22N
BL
TL 22S
TL 52 S
Wakami R
WINTER GRID
Garnet Lake
Gravel Road
BUSH ROAD
SOUTH GRID
SUGGESTED LINECUTTING
GEOLOGY SURVEYED
0 2000 4000
FEET

Fig. 2

a) the road showing and other targets in the east central grid	3 holes	1000 feet
b) the extention of the vein zone on the north shore of the Wakami River in the Central West grid into iron formation to the south	2 holes	600 feet
c) folded areas of iron formation and graphitic horizons especially if cut by cross structures in the area of tie line 525 on the East Grid	3 holes	1400 feet
d) the nose of the iron formation on the south grid and anywhere it is cut by cross structures	2 holes	1000 feet
		4000 feet

3. PROPERTY

Western Pacific Energy Corporation's Garnet Lake property consists of 133 contiguous unpatented mining claims located in central and east central Garnet Township as shown on claim map Plan M829 of Garnet Township. The claim group shown in Figure 3 is composed of the following claims:

CLAIM NUMBERS	NO.
P797501 to P797575 inclusive	75
P798029 to P798048 inclusive	20
P798055 to P798072 inclusive	18
P798080 to P798099 inclusive	20
	133

67 of the 133 claims were covered by the survey and are shown as shaded areas on Figure 3.

4. LOCATION, ACCESS AND SERVICES

Figure 1 illustrates the location of the property 125 km southwest of Timmins.

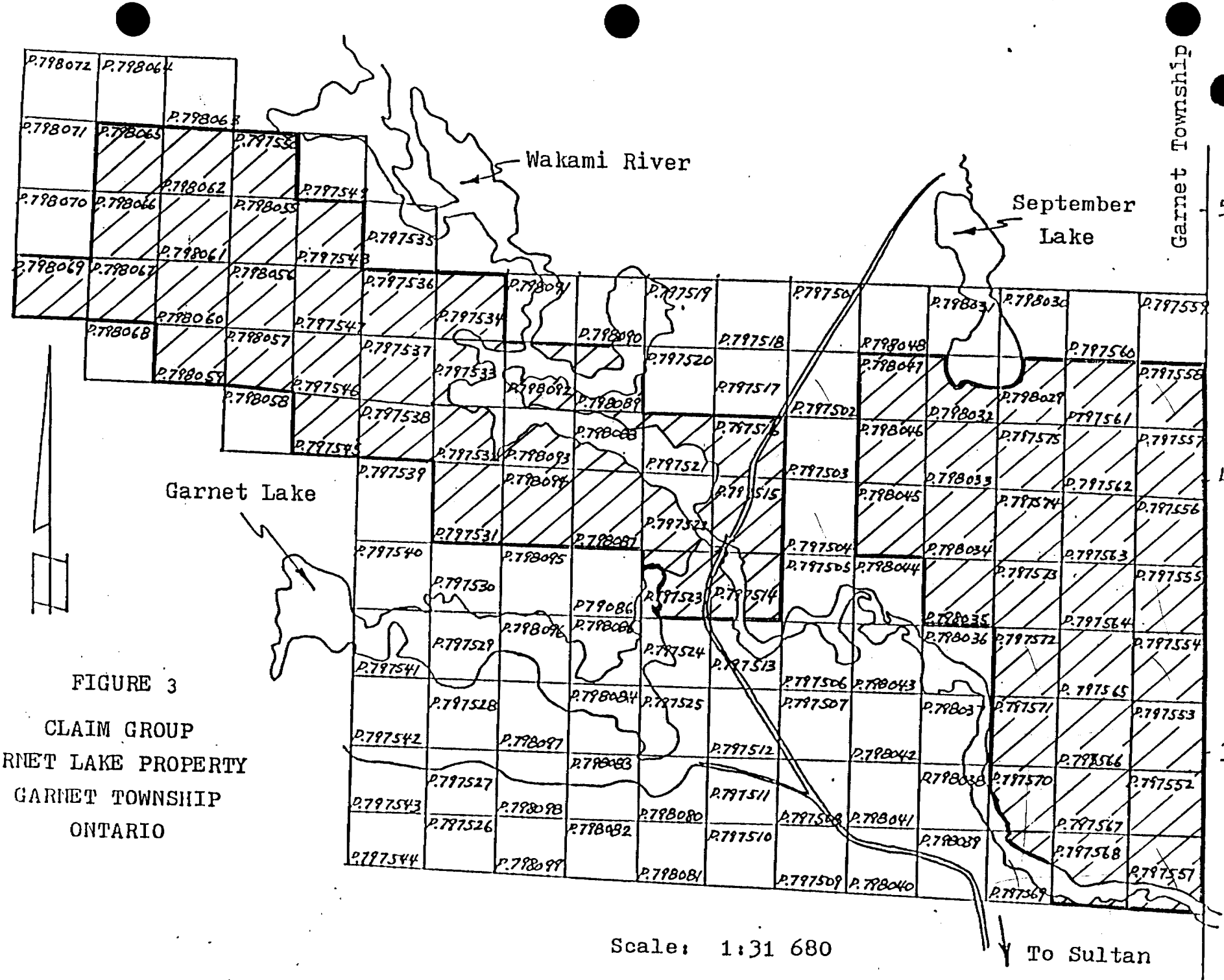


FIGURE 3

CLAIM GROUP
GARNET LAKE PROPERTY
GARNET TOWNSHIP
ONTARIO

Scale: 1:31 680

Sept/ 1986

A good gravel road crosses the property and leads south for 15 km then west for 30 km to the Canadian Pacific Railway town of Sultan. Highways 667 and 129 connect Sultan to Chapleau the nearest source of supplies 68 km to the northwest. Alternatively the gravel road which passes through the property leads north for 60 kms reaching Highway 101 5km east of the Canadian National Railway town of Folyette and 95 km SW of Timmins.

Electrical power is not presently available in the general area of the property.

5. TOPOGRAPHY AND VEGETATION

The Wakami River forms the main topographic feature of the area. The winding course of the river trends from the northwestern portions to the southeastern corner of the claim group. Hilly areas with a maximum relief of 160 feet occur in areas dominated by gabbro and diorite intrusions. Flanking areas are largely covered to completely covered by Pleistocene outwash deposits of sand gravel and by Holocene deposits of the Wakami River and swamp accumulations.

In about 1900 a great fire burnt over most of the area, leaving isolated small stands of large red pine and jack pine and in swampy areas large cedars. In the 1960s and 1970s, portions of the claim group were cut over and are now reforested by small jack pine, birch and poplar. Uncut portions in outcrop areas and/or sandy or gravelly soil are dominated by mixtures or separate stands of mature jack pine, poplar birch and minor yellow spruce. Low swampy areas are dominated by mixtures or separate growths of black spruce, white cedar, alders, willows and locally black ash. The very highest hill tops are vegetated by small stands of young maple. The various vegetation growths are illustrated on the

geological maps (back pocket). In the fall of 1985 most of the mature stands of forest on the east grid (Figure 2) suffered complete to partial blowdown, making traversing extremely difficult, but at the same time providing new exposures of outcrops from beneath upturned roots in areas of shallow subcrop.

6. PREVIOUS AND CURRENT WORK IN THE AREA

In a report for Western Pacific Energy Corp. dated June 1985, L.D.S. Winter outlined a detailed history of previous and current work in the area. I shall, therefore, present only an updated history of the property.

The area was mapped by V.G. Meen in 1941 for the Ontario Dept. of Mines and remapped in 1977 by G.M. Siragusa of the Ontario Geological Survey.

Inco Ltd. drilled 5 holes in 1960 on ground now covered by the property in search for base metals.

In November 1984, L.D.S. Winter and R. Poulin did a reconnaissance geological survey of the property followed by an airborne geophysical survey (VLF and Mag) by Terraquest Ltd. in December 1984 for Western Pacific Energy Corp.

In October of 1985 two grids (Figure 2) were cut on the property. An east grid east of the gravelled Dove Lake Road and a west grid, west of the road for a total of 56.2 miles of line.

In 1985 ground magnetometer, VLF and Self Potential surveys were carried out over portions of the grid. (L.D.S. Winter, April 1986).

During the winter of 1985-86 Western Pacific Energy Corp. carried out a diamond drilling program of 13 holes totalling 5630 feet. Assayed mineralized core indicated no economic grades of Au mineralization were intersected.

In July, 1986 the author carried out a detailed geological survey over 54 miles of grid lines, as well as shoreline and road traverses.

7. GEOLOGY

7.1 Regional Geology

The Garnet property occurs in the south-central section of the Swayze greenstone belt (Figure 1). In the Garnet, Cunningham and Benton Townships the belt is made up of a sequence of metamorphosed (greenschist facies) early Precambrian (Archean) volcanic rocks. The sequence is composed dominantly of basaltic flows and tuffs, with subordinate units of felsic porphyritic tuffs, clastic metasediments and by chemical metasediments represented by graphitic cherts and various facies of iron formation. The volcanic sequence has been intruded by gabbro-peridotite bodies, felsic porphyritic intrusions and diabase and lamprophyre dykes. Flanking the sequence to the south are granitoid intrusions and migmatites. L.D.S. Winter (1985) has outlined a more detailed account of the regional geology in an earlier report for Western Pacific Energy Corp.

7.2 Property Geology

A NW-SE trending sequence of metavolcanic rocks dominate the property. The main area of interest is a 3000-foot wide strongly magnetic section through the centre of the property composed of a number of pyritic graphitic siltstones and chert-magnetite iron formations intercalated with intermediate feldspar and/or quartz crystal tuffs, cherty mafic tuffs, lapilli tuffs and minor basaltic flows. The entire length of their epiclastic-chemical sedimentary section is intruded by numerous thick sill-like intrusions of diorite and gabbro. The mafic intrusions which form large ridges dominate outcrop exposures in the sequence; other lithologies only rarely outcrop and have been mapped out largely from

geophysics and from diamond drill hole intersections. The belt of iron formation can be subdivided into two main units, a southern unit composed of chert magnetite iron formation intercalated with intermediate feldspar tuffs and gabbro-diorite sills, and a northern unit of chert-magnetite iron formation and graphitic cherty metasiltstones intercalated with intermediate lapilli tuffs and minor quartz eye tuff. The disruption by large diorite and gabbro intrusions and poor exposure does not permit a more accurate and detailed subdivision of the main iron formation belt. The mafic intrusive sills have greatly thickened the sequence possibly as much as 35 to 40%.

North of the iron formation belt, best exposed in the NE part of the claim group is a 500-700 foot wide unit composed mainly of tuffs and lapilli tuffs with dacitic fragments intercalated with minor feldspar crystal tuffs. This section which is similar to the intercalated material of the northern portion of the main iron formation sequence is intensely carbonatized and sheared with numerous zones of ankeritic sericitic chlorite schists.

North of the above belt is a 500 to 600-foot poorly exposed sericitic quartz feldspar porphyry. The unit is very sheared to schistose and may be the strongly deformed and altered stratigraphic equivalent to the foliated quartz feldspar porphyry occupying a synform south of September Lake to the north. The porphyries which are very fractured to the east are separated by a 50 to 100 foot wide belt of green pillowed to massive basalts, possibly representing an antiform. The northern porphyry in the area of September Lake, although foliated is quite massive and homogeneous and may be largely or in part a sub-volcanic intrusive body.

To the south of the main iron formation belt is a 4000 foot wide band of gray green basalts. Pillow tops near its northern margin suggest

a north facing. Within this sequence of basaltic flows, a distinct pyritic graphitic metasiltstone with minor iron formation and chert can be traced through geophysics, rare exposures and drilling across the entire property. The southern contact of the basaltic sequence appears to occur in the area of a tightly folded iron formation south of Garnet Lake. The occurrence of airborne VLF anomalies in this area similar to these which outline the northern basalt hosted graphite horizon suggest that the basalts in the Garnet Lake area occupy a south east trending anticline and that the iron formation south of Garnet Lake may be stratigraphically equivalent to the main belt of iron formations to the north.

7.3 Structural Geology

The entire property is dominated by an ESE regional foliation sub-parallel to stratigraphy with the exception of the northern limb of a synform in the area of September Lake (Figure 4). In folded areas the main ESE trending foliation is seen to cut across stratigraphy maintaining for the most part a SE orientation. Secondary foliations observed had a NE orientation occurring exclusively in fold noses or associated with NE trending cross faults.

The property is characterized by a major zone of carbonate alteration and intense shearing flanking and encompassing the northern half of the main iron formation belt. The zone is parallel to stratigraphy and occurs for the most part in tuffs, lapilli tuffs and minor conglomerates. The southern limb of quartz-feldspar porphyry in the September Lake area has also been affected and are now represented by ankeritic quartz sericitic schists. The impression is of a major zone of SE strike faulting facilitated in part by the fisile fabric of the host tuffs. In fact, the pervasive ankeritic alteration, extensive sheared fabric and the presence of epiclastic and clastic material is not unlike

many "breaks" or major fault zones in other greenstone belts and is on strike with the major break in the Jerome Mine area is Osway Township 12km to the southeast.

Folding occurs throughout the sequences; however, only areas where outcrop density is fair to good or in rocks of good geophysical response can folds be mapped out. Major fold axii generally follow the SE regional foliation whereas there is some suggestion of NW cross folding. Liniations plunge SE at 50° to 70°.

ENE trending cross faults commonly hosting gabbro-peridotite dykes are marked by intensive shearing. Major cross faults have displacements in the order of 200 to 600 feet. Smaller shears of similar orientation are characterized in mafic rocks by chloritic alteration and quartz calcite veining with trace pyrite and in felsic rocks by pyritic sericitic quartz ferro-dolomite veining.

A regional joint set trending 360° to N10° host numerous small quartz veinlets with trace pyrite. A lamprophyre dyke also appears to occupy this fracture system.

7.4 Lithological Units

Mafic Metavolcanic Rocks

Flows - Map unit 1a to 1g is dominated by massive to pillowed basalts. Two main belts of basalt were observed.

A unit in the area of September Lake is composed of chloritic pillowed basalts, pillow clastites, and massive flows. Locally in the nose of the fold southwest of September Lake and along the south limb of the unit the rocks are sheared with pervasive dolomite alteration (bleaching).

A second area of massive to pillowed gray basalt occurs along the south side of the main belt of iron formations. The unit hosts a

100-foot wide graphitic metasiltstone with minor iron formation near its north boundary. Pillow tops indicate a north facing. Above or north of the graphitic horizon the basalts are typically greener (more chloritic) and amygdaloidal.

Epiclastites - Map Unit 1h to 1n

These rocks may not actually be true pyroclastics but rather debrie flows and conglomerates. They are located within the northern portion of the main iron formation belt and a unit or units free of iron formation bands immediately north of it. The rocks are strongly foliated to sheared with varying degrees of sericitic ankeritic alteration, generally increasing with schistosity. Within the northern half of the main iron formation band they are typically brownish green sericitic ankeritic chloritic rocks with fine to lapilli sized felsic fragments. Locally stretched and altered felsic blocks up to two feet were observed along some horizons. Quartz feldspar crystal tuffs occur locally as thin horizons. Within the rocks numerous zones of intense shearing are common forming buff coloured sericitic quartz carbonate rocks. North of the main band of iron formation outcrops are rare, but those observed suggest the northern part of the unit may be a conglomerate.

<u>Felsic Metavolcanic Rocks</u>

Three types of felsic volcanic rocks can be subdivided in the field.

Quartz-Feldspar Porphyry

Thick units of this rock or its sheared brecciated or highly fractured equivalent occur in the NE corner of the property south of September Lake and along the north shore of the Wakami River in

the west central grid. The rocks are pale green weathering to a buff white and are generally foliated. Adjacent to gabbro or iron formation the rocks become dark gray and chloritic. Shear zones within these rocks form quartz sericite ankerite schists filled with pyritic quartz ankerite veining. Locally the rocks are quite fractured to brecciated with infilled pyritic quartz ankerite; however, none of the samples collected in pyritic types returned values above 50 ppb Au.

Intermediate Feldspar Poprhyries

A fine-grained hard green feldspar porphyritic rock intercalated with iron formation.

Quartz Eye Tuff

A quartz eye crystal tuff occurs as a single unit within the upper portion of the main sequence of iron formation located west of the Garnet Township boundary and south of tie line 22S.

Metasediments

Clastites Unit 3a

Conglomerate composed of pebbles of basalt, dacite and porphyry were observed in a few outcrops on the east grid and are included in Map unit 1h to 1n. One such outcrop occurs on L36E immediately south of the base line.

Units 3b is generally the graphitic horizons. The unit overall is a marcasite-pyrite graphitic metasiltstone-mudstone rock, although minor graphitic chert (3d) and magnetite chert iron formation are present as thin beds. Marcasite and/or pyrite occur as round pods up to 2 cm within mudstone beds, or as fine layers in the metasiltstone. Locally pyrite cubes have grown in more chloritic areas or occur along fine calcite quartz-filled fractures.

Chemical Metasediments

Chert-magnetite iron formation form the main bulk of these rocks although graphitic, chloritic and/or pyritic beds are quite prevalent. Local breccia and/or vein zones occur throughout. Chalcopyrite is a common accessory in some pyritic beds and sphalerite has been noted frequently from drill core occurring in minor amounts mainly in veining or along pyritic fractures.

The units are commonly intercalated with intermediate feldspar porphyritic tuffs, quartz eye tuffs and chloritic cherty tuffs.

Gabbro-Diorites Map Unit 4

These rocks have been sub-divided into 4 main types based on composition, colour, grain size and texture. Few of these rocks are very magnetic.

Unit 4a is a light gray medium grained typically equigranular to diabasic dioritic rock containing hornblende and feldspar. Locally quartz, biotite and chlorite may occur in important amounts.

Unit 4b is typically a coarse fresh dark green rock, locally with good diabasic texture and occasionally displaying various phases. The rock is commonly veined with quartz and epidote with trace pyrite. Quartz epidote veining was most prevalent where these rocks are adjacent to iron formation. Many of these veins (rarely over 2" wide) followed a 090 to 110° joint set.

Unit 4c is typically a greenish medium grained rock commonly well foliated. It may represent chloritic deformed units or margins of unit 4b.

Unit 4d occurs as distinct mapable units of undeformed diabasic textured rocks. The rock is typically dark green black, medium to coarse grained and massive. The unit in some areas appears associated with peridotite.

Peridotite Unit 5

These rocks may represent associated intrusions with the gabbro bodies. They are black pyroxene rich rocks, locally with veinlets of serpentine. One such unit which did not outcrop located north of tie line 22S on the east grid was drilled (G-85-7) and found to be a magnetite rich peridotite.

Dykes

Map Unit 6 is a coarse massive black rock, locally quite magnetic to non-magnetic occupying NE fault structures. They are not much different visibly than unit 5 except for their dyke form.

Map Unit 7 represents one small medium grained diabase dyke trending N30°W in the NE corner of the grid. The dyke is weakly magnetic.

Map Unit 8 represents one small (2-foot wide) lamprophyre dyke trending N 10°. The dark black rock with 2-3mm flakes of biotite is located between lines 0+00 and 4E at 20S on the east grid.

8. ECONOMIC GEOLOGY

West Grid Area

No new areas of mineralization were observed in the course of the survey.

West Central Grid Area

No important areas of mineralization were encountered over grided portions of the west central grid in the survey. Three areas off the grided portion are of interest.

Area #1 occurs on an island in the Wakami River at about where IF L10E was extended north across the river to 8 north it would position the showing. On the SW corner of the island interbedded tuffs and thin 6" to

2-foot wide bands of iron formation occur adjacent to gabbro to the north. The gabbro adjacent to the iron formation is very dark chloritic and sheared. The contact zone in the tuffs in schistose and heavily quartz veined. Numerous samples of quartz veined material and individual bands of iron formation were assayed; however, all but one gave values less than 50 ppb Au. Sample No. 51489 of a one-foot wide pyritic quartz veined band of iron formation with 0.5 to 19.0 chalcopyrite returned a value of .02 oz. Au. The chip sample was taken from the iron formation band closest to the northern quartz veined contact area.

Area #2 occurs where if line 34E was extended northward across the river to 10N on the shore, it would locate a 2-foot wide quartz carbonate vein 100 feet to the west. The vein which strikes N32°E cuts quartz-feldspar porphyry. The vein is composite in nature with a sheared quartz east side, a chalcopyrite (2%) carbonate west side and a pyritic-chalcopyritic sheared and brecciated central part. The wall rocks of the vein are extensively chloritized with minor ankeritic alteration and trace pyrite. Nine samples were taken of the vein and wall rock, and all gave values less than .01 oz. Au. However, the vein may represent an important cross structure with associated alteration and silicification. If the structure extended north or south into iron formation, a zone of quartz flooding could be expected possibly with associated Au values.

It should be noted that numerous small (up to 2" wide) pyritic quartz veinlets following the prominant joint direction of N 10°E were sampled in gabbro and porphyry; however, only those sampled from iron formation gave any values.

Area #3 occurs on a large rock exposure on the west side of the gravel road which passes through the property north of Wakami River bridge. The outcrop is located 300 feet north of where the base line for

the east grid meets the gravel road. Iron formation recently exposed during road reconstruction gave anomalous Au values whereas sheared gabbro with minor quartz veining which forms the north contact of the iron formation returned no "values". Pyritic gossanous portions of the dominantly chert-magnetite iron formation gave Au values in the 200 to 500 ppb range. The pyritic horizons contained from 1-2% chalcopyrite. A sample of highly fractured magnetite-chert with pyritic quartz veinlets (<2mm) gave a value of 926 ppb Au. The best value, however, came from a chip sample along the strike of a pyritic 1/2" quartz vein trending N 10°E.

East Grid Area

Although numerous areas on the east grid showed interesting pyritic mineralization with associated ankeritic alteration and/or shearing, fracturing or brecciation most of these areas consistantly gave values less than 25 ppb Au.

The quartz-feldspar porphyry in the northeastern part of the grid commonly contained areas of pyrite associated with ankeritic alteration, brecciations and shearing but didn't run gold. A few trenches were found about a 6-foot wide quartz ankerite veined shear zone with 2-10% pyrite on Line 8E, 50 feet south of the baseline. The shear trending N80°E gave no values. Similarly a strong ferro-dolomite altered pyritic basalt at L20W, 13N gave no values. Numerous samples from intensely ankeritic altered sheared tuffs with trace pyrite north of the main band of iron formation also gave disappointing values of less than 50 ppb Au. Diamond drill holes G-85-8, G-85-9 and G-85-11 (Map 1 East Grid) intersected bands of pyritic magnetite-chert iron formation; all sampled sections gave values less than 50 ppb Au.

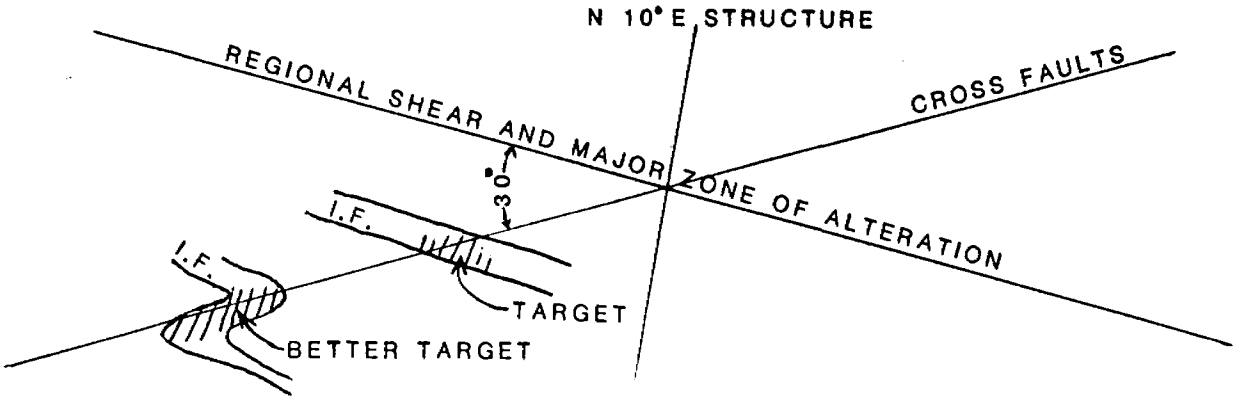
Only two geochemically anomalous areas were found on the east grid:

Area 1 is associated with a 2-foot wide pyritic arsenopyrite band of ankeritic carb. rock. The vein or bed was intersected in D.D.H. G-85-7 and gave a value of 930 ppb Au over 2 feet. 1000 feet to the ESE along strike the band or a parallel band cuts a small outcrop at 31E 18+75S. A sample containing pyrite and trace arsenopyrite taken from the outcrop returned a value of 159 ppb Au. The zone which occurs in strongly sheared ankeritic sericitic chloritic tuffaceous rocks strikes at 10°S parallel to stratigraphy and the main shear fabbric.

Area 2 located at L24E 32+75S occurs in a 20-foot wide unit of marcusite rich graphitic mudstone with rocks similar to those of Area 1. The best value obtained from this graphitic horizon was 313 ppb Au.

Although much of the northern half of the east grid (Map 1) remains untested, and economic mineralization could occur where cross structures intersected graphitic horizons or iron formation, these deposits or zones if they did occur would likely be small. Possibly a better area for exploration would be about the tightly folded noses of graphitic horizons or iron formation in the southern half of the grid (Map #2). Here regional cross structures trending N 10°E, ENE and NE would be locally parallel to favourable horizons in areas where folding already likely caused increased fracturing, therefore offering the possibility of larger areas of mineralization.

STRESS PATTERN FOR THE GARNET PROPERTY



9. ROCK GEOCHEMISTRY

112 rock samples were taken for analysis. The sample numbers are as follows:

SAMPLE NO.	NO. OF SAMPLES
86615 - 86645	31
51470 - 51500	31
36551 - 36568	18
52919 - 52950	32
	112

112 samples were analyzed for Au, 12 for Cu, 10 for Zn and 3 for Ag.

All samples are plotted on the geological maps with their Au values. Cu, Zn and Ag values were not plotted.

SURVEY PERSONNEL

S. MASSON	R.R. #4, POWASSON, ONTARIO	July 3 to 7, 1986
		July 25 to Aug. 3, 1986
		Aug. 11 to Aug. 20, 1986
		Aug. 29 to Sept. 3, 1986
O. HILTZ	R.R. #4, CHISHOLM, ONTARIO	July 25 to Aug. 3, 1986
R. MASSON	R.R. #4, POWASSAN, ONTARIO	Aug. 11 to Aug. 20, 1986

SELECTED REFERENCES

MEEN, V.B. (1944)
Geology of the Cunningham-Garnet Area, Sudbury District, Ontario., Ontario Dept. of Mines, Ann. Report, Vol. 51, Pt. 7.

SIRAGUSA, G.M. (1977)
Cunningham and Garnet Townships, District of Sudbury, in Summary of Field Work, 1977 by the Geological Branch, Ontario Geological Survey Misc. Paper 75, 208 p.

SIRAGUSA, G.M. (1980)
Garnet Township, Sudbury District, Ontario, Preliminary Map P2340, Ontario Geological Survey.

BROWN, P. (1985)
Diamond Drill Logs of drilling by Western Pacific Energy Corp. on their Garnet Property, Garnet Township, Ontario 1985-1986

WINTER, L.D.S. (1984)
Report of Property Evaluation, Garnet Lake Property, Garnet Township, Ontario, 9 pages.

WINTER, L.D.S. (1985)
Geological Report on the Garnet Lake Property, Garnet Township, District of Sudbury, Ontario for Western Pacific Energy Corp., 15p.

WINTER, L.D.S. (1986)
Report on the Exploration Program on the Garnet Township Property, Ontario for Western Pacific Energy Corporation, 10p.

CERTIFICATE OF QUALIFICATION

I, Stephen Les Masson do hereby certify:

1. that I am a geologist and reside at Lot 5, Con. 10,Chisholm Township, Ontario P0H 1Z0;

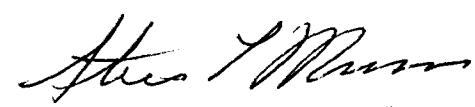
2. that I am a fellow of the Geological Association of Canada;

3. that I graduated from Haileybury School of Mines as a mining technologist in 1970, from Laurentian University in Sudbury with a B.Sc. and M.Sc. in Geology in 1971 and 1978 respectively;

4. that I have practiced my profession for 12 years and have been involved in geology since 1968;

5. that my report on the Garnet Lake Property, Garnet Township, Ontario, is based on my personal knowledge of the area, my survey of the property and on a review of published and unpublished information of the property and surrounding area;

6. that I have no personal, direct or indirect interest in the Garnet Lake Property, Garnet Township, District of Sudbury, Ontario, or any adjacent properties, nor do I hold or intend to hold any shares of Western Pacific Energy Corporation and that I have written this report and carried on the survey as an independent consultant.



S. L. Masson
B. Sc., M.Sc., F.G.A.C.
September 5, 1986

Ministry of Natural Resources
Ontario

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

860367 The Minis

41009NW0084 2.9422 GARNET

900

Type of Survey(s)
Assaying

Garnet Township

Claim Holder(s)
D. G. Innes

Prospector's Licence No.
C-32477

Address
1275 Main Street West, North Bay, Ont. P1B 2W7

Survey Company
Bell-White Laboratories Ltd

Date of Survey (from & to)
03 C7
Day | M

Total Miles of line Cut

Name and Address of Author (of Geo-Technical report)
P. O. Box 187, Haileybury, Ont.

Ld this Row only.
L.D.

Credits Requested per Each Claim in Columns at right

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

Man Days		Days per Claim
Complete Reverse Side and Enter Total(s) Here	Geophysical	
	- Electromagnetic	
	- Magnetometer	
	- Radiometric	
	- Other	
	Geological	
	Geochemical	

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

RECEIVED
DEC 01 1986
11:42 Am.

Mining Claims Traversed

Mining Claim Prefix	Mining Claim Number	Expend. Days Cr.
P	797522	
	797523	
	797535	19
	797563	19
	798059	8
	798065	8
	798069	7
	798088	19

RECEIVED
DEC 15 1986
MINING LANDS SECTION

RECORDED
DEC 01 1986

Expenditures (excludes power stripping)

Type of Work Performed
Assay (Sec 11.19)

Performed on Claim(s)
Assay locations: Refer to #306/86.
See list attached

Calculation of Expenditure Days Credits

Total Expenditures			=	Total Days Credits
$ 1443	÷	15	=	96.2

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

Total number of mining claims covered by this report of work. 8

For Office Use Only

Total Days Cr. Recorded	Date Recorded	Mining Recorder
96	Dec. 1/86	
	Date Approved as Recorded	Branch Director
	86.12.23	

Date	Recorded Holder or Agent (Signature)
Nov. 25/86	Michelle Fabeau

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
Quinterra Resources 1275 Main Street West North Bay, Ont. P1B 2W7

Date Certified	Certified by (Signature)
Nov. 25/86	Michelle Fabeau

2,942

798045
798046
798047
798055
798056
798057
798059
798060
798061
798062
798065
798066
798067
798069
798087
798088
798089
798092
798093
798094

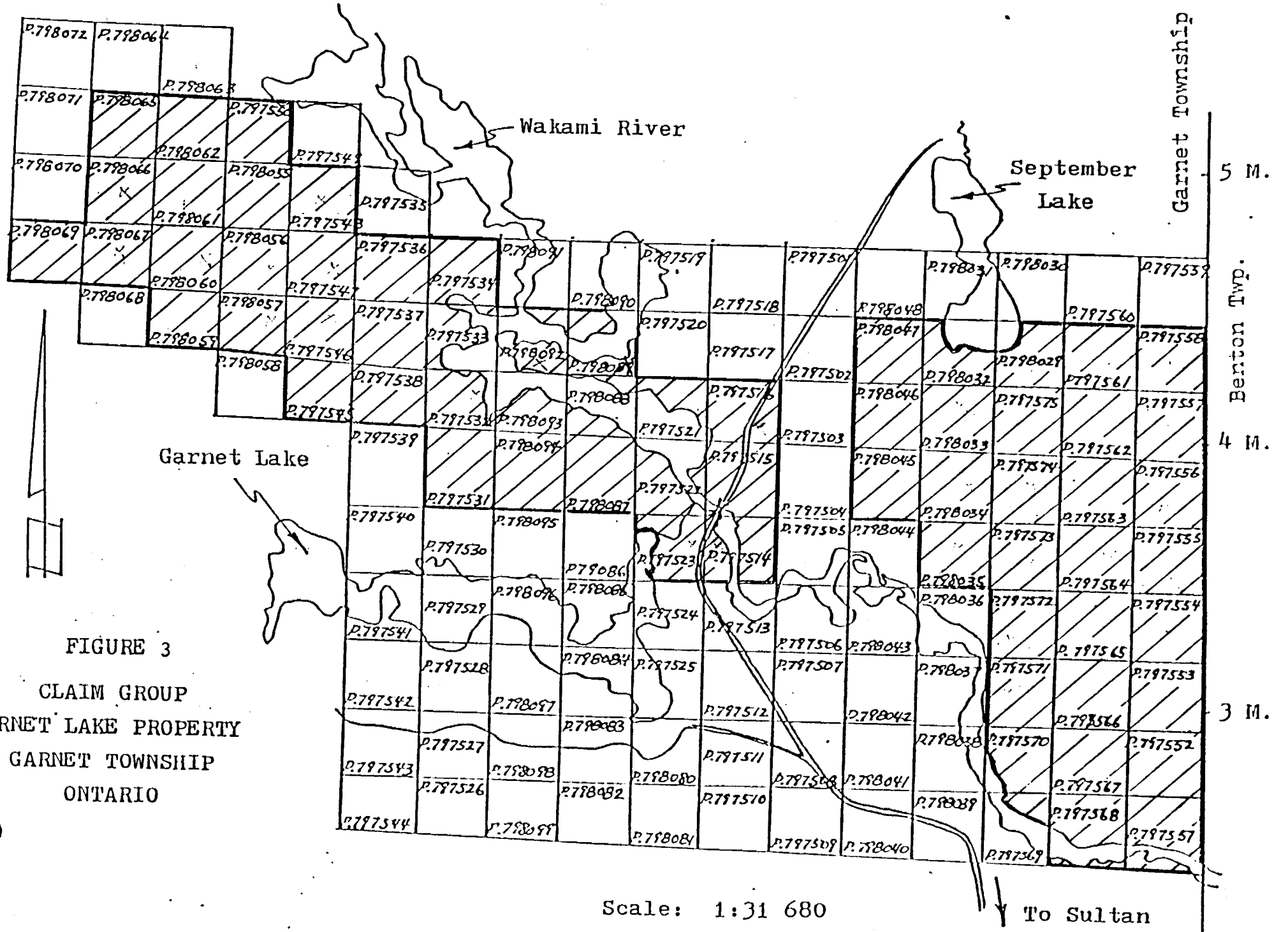


FIGURE 3

CLAIM GROUP
GARNET LAKE PROPERTY
GARNET TOWNSHIP
ONTARIO

Scale: 1:31 680

2.9422

November 28, 1986

Your File: 306/86
Our File: 2.9422

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

Dear Sir:

RE: Notice of Intent dated November 10, 1986
Geological Survey on Mining Claims P 797514,
et al, in Garnet Township

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

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

Yours sincerely,

J.C. Smith, Supervisor
Mining Lands Section

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

Telephone: (416) 965-4888

SH/mc
cc: D.G. Innes
1275 Main Street West
North Bay, Ontario
P1B 2W7

Resident Geologist
Timmins, Ontario

Encl.

QueOnt Explorations
R.R.#4
Powasson, Ontario
P0H 1Z0

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

Ontario Ministry of Natural Resources

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

The Mining Act

Instructions: – Please type or print.
– If number of mining claims traversed exceeds space on this form, attach a list.
– 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: Geological Survey

Township or Area: Garnet Township

Claim Holder(s): D.G. Innes

Prospector's Licence No.: C - 32477

Address: 1275 Main Street West, North Bay, Ontario P1B 2W7

Survey Company: QueOnt Explorations

Date of Survey (from & to): 03 07 86 (Day Mo. Yr.) 03 09 86 (Day Mo. Yr.)

Total Miles of line Cut: 56.2 miles

Name and Address of Author (of Geo-Technical report): QueOnt Explorations, R.R. #4, Powasson, Ontario

Credits Requested per Each Claim in Columns at right

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

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

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

Expenditures (excludes power stripping)

Type of Work Performed

Performed on Claim(s)

Calculation of Expenditure Days Credits

Total Expenditures: $ ÷ 15 = Total Days Credits

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

Date: Sept. 16, 1986

Recorded Holder or Agent (Signature):

Mining Claims Traversed (List in numerical sequence)

Prefix	Mining Claim Number	Expend. Days Cr.
	797514	
	797515	
	797516	
	797521	
	797522	
	797523	
	797531	
	797532	
	797533	
	797534	
	797536	
	797537	
	797538	
	797545	
	797546	
	797547	
	797548	
	797550	
	797551	
	797552	
	797553	
	797554	
	797555	

Prefix	Mining Claim Number	Expend. Days Cr.
	797556	
	797557	
	797558	
	797561	
	797562	
	797563	
	797564	
	797565	
	797566	
	797567	
	797568	
	797569	
	797570	
	797571	
	797572	
	797573	
	797574	
	797575	
	798029	
	798032	
	798033	
	798034	
	798035	

Total number of mining claims covered by this report of work: 66

For Office Use Only

Total Days Cr. Recorded: 2410

Date Recorded: Sept. 22/86

Date Approved as Recorded: Revised Statement

Mining Recorder: Branch Director

Certification Verifying Report of Work

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

Name and Postal Address of Person Certifying: Quinterra Resources Inc. 1275 Main Street West, North Bay, Ontario P1B 2W7

Date Certified: Sept. 16, 1986

Certified by (Signature):

RECEIVED
SEP 22 1986
MINING LANDS SECTION

PORCUPINE MINING DIVISION
RECEIVED
SEP 22 1986

RECORDED
SEP 22 1986

Ministry of Northern Development and Mines
Ontario

Technical Assessment Work Credits

File: 2.9422

Date: November 10, 1986

Mining Recorder's Report of Work No.: 306/86

Recorded Holder: D.G. INNES

Township or Area: GARNET TOWNSHIP

Type of survey and number of Assessment days credit per claim	Mining Claims Assessed
Geophysical	P 797531 to 534 inclusive 797536 to 538 inclusive 797545 to 548 inclusive 797550 to 558 inclusive 797561 - 62 797564 to 568 inclusive 797571 to 575 inclusive 798029 798032 to 035 inclusive 798046 - 47 798055 to 057 inclusive 798060 to 062 inclusive 798066-67-87-89-92-93-94
Electromagnetic _____ days	
Magnetometer _____ days	
Radiometric _____ days	
Induced polarization _____ days	
Other _____ days	
Section 77 (19) See "Mining Claims Assessed" column	
Geological 40 days	
Geochemical _____ days	
Man days ☐ Airborne ☐	
Special provision ☒ Ground ☒	
☐ 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 mining claims

20 DAYS	10 DAYS
P 797522-23-70 798059-65-69	P 797514-15-16-21-63-69 798045-88

No credits have been allowed for the following mining claims

☐ not sufficiently covered by the survey ☐ insufficient technical data filed

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

828 (85/12)

29422

798092
798089
798067
798066
798060
798057
798056
798035
798034
798033
798029

797574
797573
797572
797571
797564
797561
797558
797557
797556
797555
797554
797548
797547
797546
797532
797523
797516

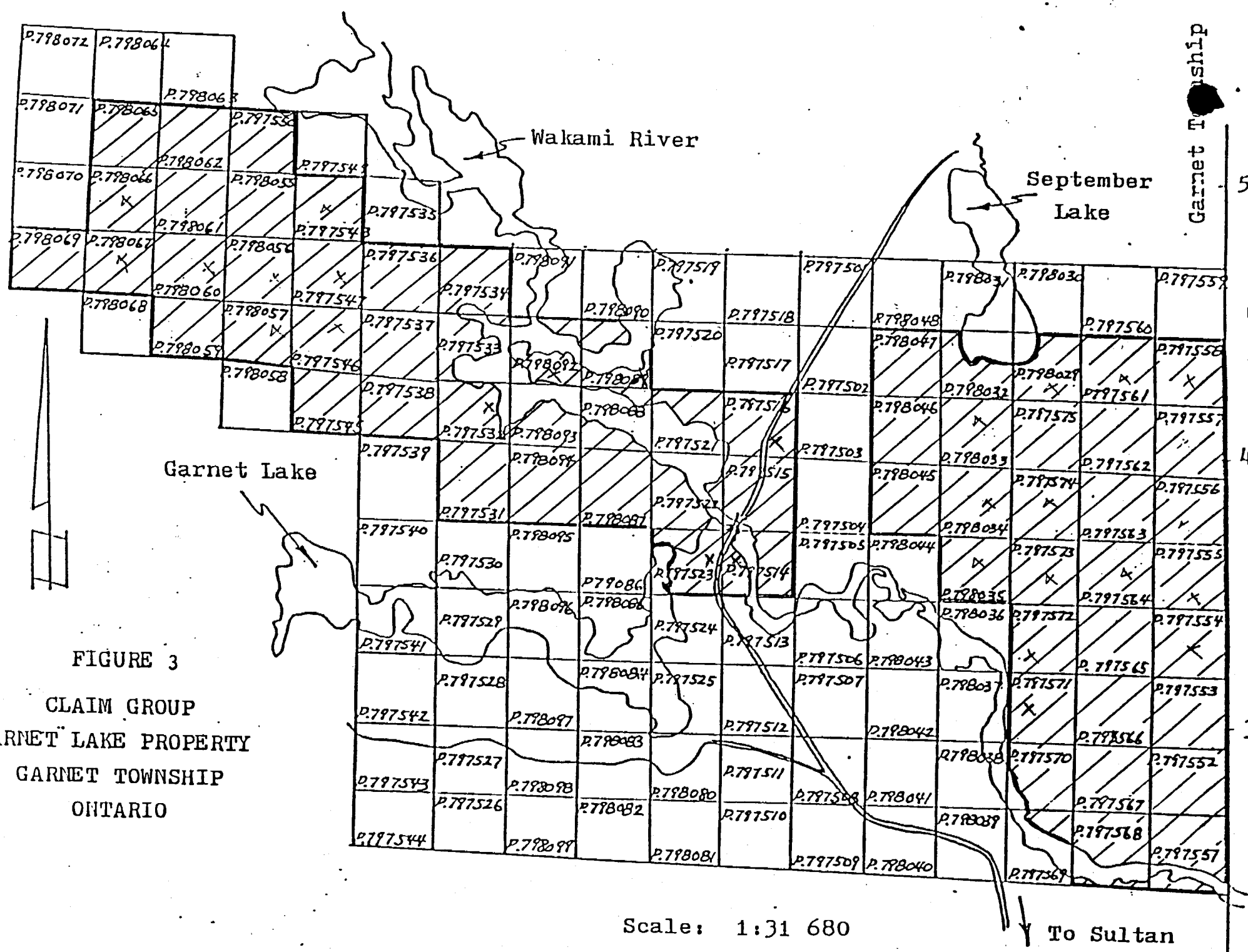


FIGURE 3

CLAIM GROUP
GARNET LAKE PROPERTY
GARNET TOWNSHIP
ONTARIO

Scale: 1:31 680

Ministry of Northern Development and Mines

Ontario

Geophysical-Geological-Geochemical Technical Data Statement

File _____

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 Survey

Township or Area Garnet Township

Claim Holder(s) D.G. Innes

Survey Company QueOnt Exploration

Author of Report Steve Masson

Address of Author R.R. #4, Powassan, Ontario

Covering Dates of Survey line cutting; Oct. 28 - Nov. 24, 1985 geology: July 03 - Sept. 03, 1986 (linecutting to office)

Total Miles of Line Cut 56.2 line miles

SPECIAL PROVISIONS CREDITS REQUESTED

ENTER 40 days (includes line cutting) for first survey.

ENTER 20 days for each additional survey using same grid.

	DAYS per claim
Geophysical	
–Electromagnetic	
–Magnetometer	
–Radiometric	
–Other	
Geological	40
Geochemical	

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

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

DATE: Sept. 17, 1986 SIGNATURE: _____ Author of Report or Agent

Res. Geol. _____ Qualifications 2.9227

Previous Surveys

File No.	Type	Date	Claim Holder

MINING CLAIMS TRAVERSED
List numerically

(prefix) (number)

see list attached

TOTAL CLAIMS _____

If space insufficient, attach list

OFFICE USE ONLY

837 (85/12)

GEOPHYSICAL TECHNICAL DATA

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

Number of Stations _____ Number of Readings _____

Station interval _____ Line spacing _____

Profile scale _____

Contour interval _____

MAGNETIC

Instrument _____

Accuracy – Scale constant _____

Diurnal correction method _____

Base Station check-in interval (hours) _____

Base Station location and value _____

_____

ELECTROMAGNETIC

Instrument _____

Coil configuration _____

Coil separation _____

Accuracy _____

Method: ☐ Fixed transmitter ☐ Shoot back ☐ In line ☐ Parallel line

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

Parameters measured _____

GRAVITY

Instrument _____

Scale constant _____

Corrections made _____

_____

Base station value and location _____

_____

Elevation accuracy _____

INDUCED POLARIZATION RESISTIVITY

Instrument _____

Method ☐ Time Domain ☐ Frequency Domain

Parameters – On time _____ Frequency _____

– Off time _____ Range _____

– Delay time _____

– Integration time _____

Power _____

Electrode array _____

Electrode spacing _____

Type of electrode _____

SELF POTENTIAL

Instrument _____ Range _____

Survey Method _____

_____

Corrections made _____

_____

RADIOMETRIC

Instrument _____

Values measured _____

Energy windows (levels) _____

Height of instrument _____ Background Count _____

Size of detector _____

Overburden _____

(type, depth – include outcrop map)

OTHERS (SEISMIC, DRILL WELL LOGGING ETC.)

Type of survey _____

Instrument _____

Accuracy _____

Parameters measured _____

_____

Additional information (for understanding results) _____

_____

_____

AIRBORNE SURVEYS

Type of survey(s) _____

Instrument(s) _____

(specify for each type of survey)

Accuracy _____

(specify for each type of survey)

Aircraft used _____

Sensor altitude _____

Navigation and flight path recovery method _____

_____

Aircraft altitude _____ Line Spacing _____

Miles flown over total area _____ Over claims only _____

GEOCHEMICAL SURVEY – PROCEDURE RECORD

Numbers of claims from which samples taken _____

Total Number of Samples _____

Type of Sample _____
(Nature of Material)

Average Sample Weight _____

Method of Collection _____

Soil Horizon Sampled _____

Horizon Development _____

Sample Depth _____

Terrain _____

Drainage Development _____

Estimated Range of Overburden Thickness _____

SAMPLE PREPARATION
(Includes drying, screening, crushing, ashing)

Mesh size of fraction used for analysis _____

General _____

ANALYTICAL METHODS

Values expressed in: per cent ☐
p. p. m. ☐
p. p. b. ☐

Cu, Pb, Zn, Ni, Co, Ag, Mo, As,-(circle)

Others _____

Field Analysis (_____ tests)

Extraction Method _____

Analytical Method _____

Reagents Used _____

Field Laboratory Analysis

No. (_____ tests)

Extraction Method _____

Analytical Method _____

Reagents Used _____

Commercial Laboratory (_____ tests)

Name of Laboratory _____

Extraction Method _____

Analytical Method _____

Reagents Used _____

General _____

797514
797515
797516
797521
797522
797523
797531
797532
797533
797534
797536
797537
797538
797545
797546
797547
797548
797550
797551
797552
797553
797554
797555
797556
797557
797558
797561
797562
797563
797564
797565
797566
797567
797568
797569
797570
797571
797572
797573
797574
797575
798029
798032
798033
798034
798035
798045
798046
798047
798055
798056
798057
798059
798060
798061
798062
798065
798066
798067
798069
798087
798088
798089
798092
798093
798094

NOTES

400' surface ... observation along the shores of all lakes a... ers.

FOI Sudbo Only Application (File 839742)

DORE TP. M.763

CUNNINGHAM TP. M.744

BENTON TP. M.659

FAWN, TP. M.804

5M 4M 3M 2M 1M

18 M. 17 M. 16 M. 15 M. 14 13 M. 12 M.

September Garnet Fawn

47°39'41" Approx 62°28'59"

LEGEND

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

F.O.I. - Filed ONLY - see file P-839742 Nov 19/85

DISPOSITION OF CROWN LANDS

TYPE OF DOCUMENT	SYMBOL
PATENT SURFACE & MINING RIGHTS	
SURFACE RIGHTS ONLY	
MINING RIGHTS ONLY	
LEASE, SURFACE & MINING RIGHTS	
SURFACE RIGHTS ONLY	
MINING RIGHTS ONLY	
LICENCE OF OCCUPATION	
CROWN LAND SALE	C.S.
ORDER-IN-COUNCIL	OC
RESERVATION	
CANCELLED	
SAND & GRAVEL	

RECEIVED NOV 24 1986

SCALE : 1 INCH 40 CHAINS

FEET 0 500 1000 2000 4000 6000 8000

METRES 0 200 400 600 800 1 KM 2 KM

ACRES	HECTARES
40	16

TOWNSHIP

GARNET

DISTRICT

SUDBURY

MINING DIVISION

PORCUPINE

Received Jan 4/80

Ministry of Natural Resources

Ontario — Surveys and Mapping Branch

Date April 27th, 1973

Whitney Block Queen's Park Toronto

Plan No. M.829

NOTES

400' surface rights reservation along the shores of all lakes and rivers.

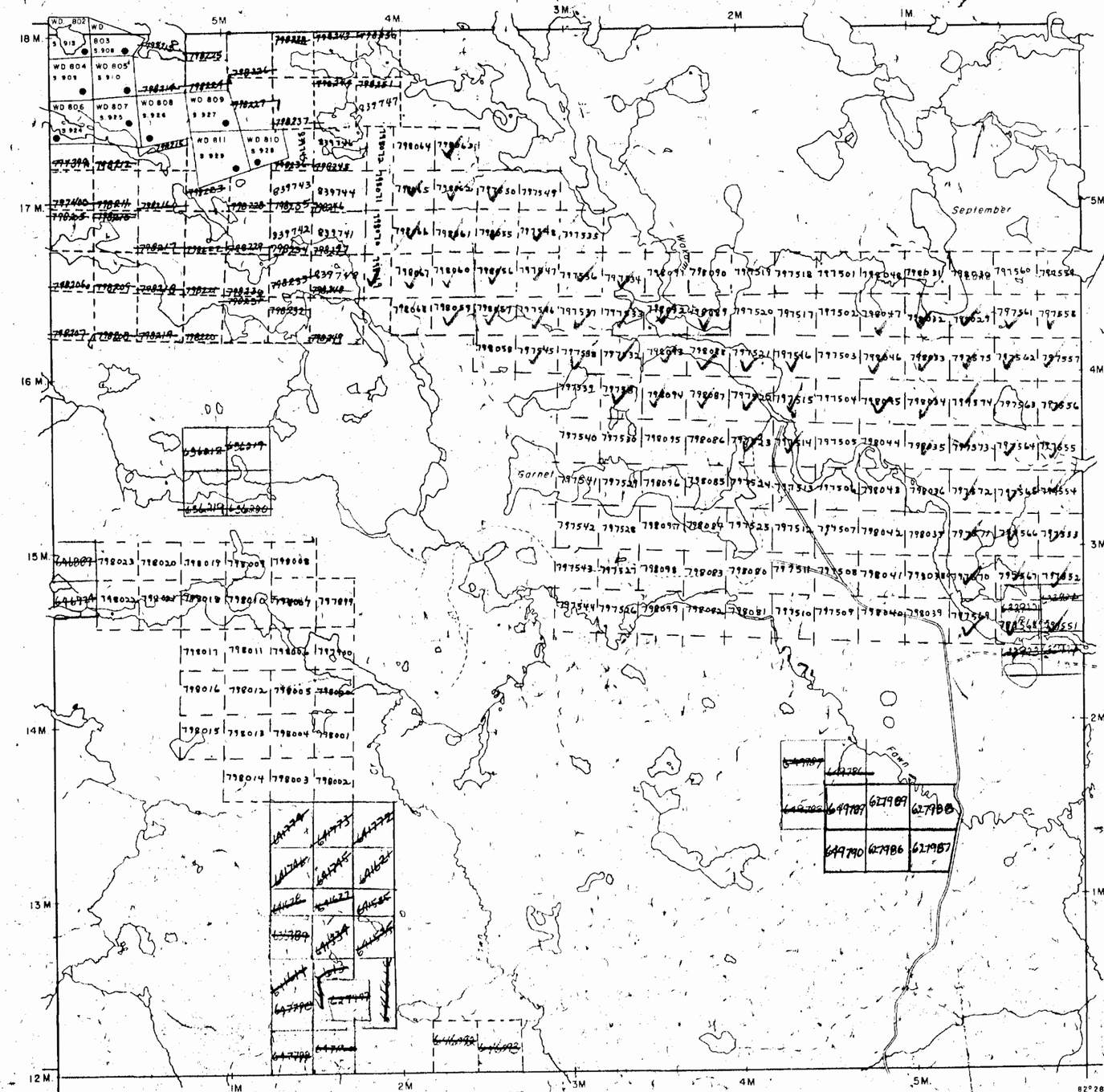
(F01) SLIED ONLY APPLICATION (File 839742)

DORE TP. M. 763

CUNNINGHAM TP. M.744

BENTON TP. M.659

FAWN, TP. M.804



LEGEND

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

F.O.1 — Filed ONLY - see file P-839742 Nov 19/85

DISPOSITION OF CROWN LANDS

TYPE OF DOCUMENT	SYMBOL
PATENT SURFACE & MINING RIGHTS	●
SURFACE RIGHTS ONLY	◒
MINING RIGHTS ONLY	◒
LEASE, SURFACE & MINING RIGHTS	■
SURFACE RIGHTS ONLY	▣
MINING RIGHTS ONLY	▣
LICENCE OF OCCUPATION	▼
CROWN LAND SALE	C.S.
ORDER-IN-COUNCIL	O.C.
RESERVATION	R
CANCELLED	C
SAND & GRAVEL	S

RECEIVED
NOV 24 1986
MINING LANDS SECTION

SCALE: 1 INCH 40 CHAINS

FEET 0 500 1000 2000 4000 6000 8000

METRES 0 200 400 600 800 1KM 2KM

ACRES	HECTARES
40	16

TOWNSHIP

GARNET

DISTRICT

SUDBURY

MINING DIVISION

PORCUPINE

Received Jan 4/80

Ministry of Natural Resources

Ontario — Surveys and Mapping Branch

Date: April 27th, 1973

Whitney Block
Queen's Park, Toronto

Plan No. M.829

TL 22N

TL 22S

BL

SEPTEMBER LAKE

LAKE

IRON FORMATIONS

797502 797503 797504 797505 797506 797507 797508 797509 797510 797511 797512 797513 797514 797515 797516 797517 797518 797519 797520 797521 797522 797523 797524 797525 797526 797527 797528 797529 797530 797531 797532 797533 797534 797535 797536 797537 797538 797539 797540 797541 797542 797543 797544 797545 797546 797547 797548 797549 797550 797551 797552 797553 797554 797555 797556 797557 797558 797559 797560 797561 797562 797563 797564 797565 797566 797567 797568 797569 797570 797571 797572 797573 797574 797575

798032 798033 798034 798035 798036 798037 798038 798039 798040 798041 798042 798043 798044 798045 798046 798047 798048 798049 798050 798051 798052 798053 798054 798055 798056 798057 798058 798059 798060 798061 798062 798063 798064 798065 798066 798067 798068 798069 798070 798071 798072 798073 798074 798075 798076 798077 798078 798079 798080 798081 798082 798083 798084 798085 798086 798087 798088 798089 798090 798091 798092 798093 798094 798095 798096 798097 798098 798099 798100 798101 798102 798103 798104 798105 798106 798107 798108 798109 798110 798111 798112 798113 798114 798115 798116 798117 798118 798119 798120 798121 798122 798123 798124 798125 798126 798127 798128 798129 798130 798131 798132 798133 798134 798135 798136 798137 798138 798139 798140 798141 798142 798143 798144 798145 798146 798147 798148 798149 798150 798151 798152 798153 798154 798155 798156 798157 798158 798159 798160 798161 798162 798163 798164 798165 798166 798167 798168 798169 798170 798171 798172 798173 798174 798175 798176 798177 798178 798179 798180 798181 798182 798183 798184 798185 798186 798187 798188 798189 798190 798191 798192 798193 798194 798195 798196 798197 798198 798199 798200 798201 798202 798203 798204 798205 798206 798207 798208 798209 798210 798211 798212 798213 798214 798215 798216 798217 798218 798219 798220 798221 798222 798223 798224 798225 798226 798227 798228 798229 798230 798231 798232 798233 798234 798235 798236 798237 798238 798239 798240 798241 798242 798243 798244 798245 798246 798247 798248 798249 798250 798251 798252 798253 798254 798255 798256 798257 798258 798259 798260 798261 798262 798263 798264 798265 798266 798267 798268 798269 798270 798271 798272 798273 798274 798275 798276 798277 798278 798279 798280 798281 798282 798283 798284 798285 798286 798287 798288 798289 798290 798291 798292 798293 798294 798295 798296 798297 798298 798299 798300 798301 798302 798303 798304 798305 798306 798307 798308 798309 798310 798311 798312 798313 798314 798315 798316 798317 798318 798319 798320 798321 798322 798323 798324 798325 798326 798327 798328 798329 798330 798331 798332 798333 798334 798335 798336 798337 798338 798339 798340 798341 798342 798343 798344 798345 798346 798347 798348 798349 798350 798351 798352 798353 798354 798355 798356 798357 798358 798359 798360 798361 798362 798363 798364 798365 798366 798367 798368 798369 798370 798371 798372 798373 798374 798375 798376 798377 798378 798379 798380 798381 798382 798383 798384 798385 798386 798387 798388 798389 798390 798391 798392 798393 798394 798395 798396 798397 798398 798399 798400 798401 798402 798403 798404 798405 798406 798407 798408 798409 798410 798411 798412 798413 798414 798415 798416 798417 798418 798419 798420 798421 798422 798423 798424 798425 798426 798427 798428 798429 798430 798431 798432 798433 798434 798435 798436 798437 798438 798439 798440 798441 798442 798443 798444 798445 798446 798447 798448 798449 798450 798451 798452 798453 798454 798455 798456 798457 798458 798459 798460 798461 798462 798463 798464 798465 798466 798467 798468 798469 798470 798471 798472 798473 798474 798475 798476 798477 798478 798479 798480 798481 798482 798483 798484 798485 798486 798487 798488 798489 798490 798491 798492 798493 798494 798495 798496 798497 798498 798499 798500 798501 798502 798503 798504 798505 798506 798507 798508 798509 798510 798511 798512 798513 798514 798515 798516 798517 798518 798519 798520 798521 798522 798523 798524 798525 798526 798527 798528 798529 798530 798531 798532 798533 798534 798535 798536 798537 798538 798539 798540 798541 798542 798543 798544 798545 798546 798547 798548 798549 798550 798551 798552 798553 798554 798555 798556 798557 798558 798559 798560 798561 798562 798563 798564 798565 798566 798567 798568 798569 798570 798571 798572 798573 798574

86620 86621 86622 86623 86624 86625 86626 86627 86628 86629 86630 86631 86632 86633 86634 86635 86636 86637 86638 86639 86640 86641 86642 86643 86644 86645

52919 52920 52921 52922 52923 52924 52925 52926 52927 52928 52929 52930 52931 52932 52933 52934 52935 52936 52937 52938 52939 52940 52941 52942 52943 52944

1a 1ac 1b 1c 1cg 1g 1jkn 1k,3c 1mc 2c 2e 2f 2g 2gf 2i 3a 3bd 3c 4a 4b 4c 4d 4-5

Black Spruce
Cedar Swamp
Open Spruce & Tea
Open Black Spruce & Labrador Tea
Jack Pine sand
Complete Blow Down
Bog Hole
Beaver Meadow
Cedar S. amp

Au Cu

SYMBOLS

LEGEND

WESTERN PACIFIC ENERGY CORP.

GARNET PROPERTY

EAST GRID MAP 1

GEOLOGY

by S.Masson QUEONT Exploration Services

SCALE 0 125 250 1" = 200'

DATE Aug. 1986

DRAWN BY S.L.M.

29422

220

WESTERN PACIFIC ENERGY CORP.

GARNET PROPERTY
EAST GRID MAP 2

GEOLOGY

by S.Masson QUEONT Exploration Services

SCALE 1" = 200' (0 125 250 500)	DATE	DRAWN BY
	Aug. 1986	S.L.M.

WESTERN PACIFIC ENERGY CORP.
GARNET PROPERTY 29422
GEOLOGY
by S.Masson QUEONT Exploration Services
WEST GRID
Scale: 1" = 200'
Date Aug 1986
Drawn By S.L.M.
SYMBOLS
LEGEND
IRON FORMATION
GEOPHYSICS
Graphitic Iron Formation
LAKE
Cedar Swamp
DDH G-1
DDH G-2
DDH G-3
DDH G-5
DDH G-6
DDH 3-4
2 NTL.
20 N
16 N
12 N
8N
20 STL
L76W
L72W
L68W
L64W
L60W
L56W
L52W
L48W
L44W
L40W
L36W
L32W
L28W
L24W
L20W
L16W
L12W
L8W
L4W
240

WESTERN PACIFIC ENERGY CORP.

GARNET PROPERTY

GEOLOGY

by S.Masson QUEONT Exploration Services

WEST CENTRAL GRID

SCALE:	DATE:	DRAWN BY
0 125 250 500 1" = 200'	Aug. 1986	S.L.M.

SYMBOLS

LEGEND

250

010

DIAMOND DRILLING PROGRAMME

GARNET TOWNSHIP PROPERTY

FOR

WESTERN PACIFIC ENERGY CORPORATION

REPORT ON THE DIAMOND DRILLING PROGRAMME

ON THE

GARNET TOWNSHIP PROPERTY

ONTARIO

FOR

WESTERN PACIFIC ENERGY CORPORATION

DECEMBER 1985 - FEBRUARY 1986

TABLE OF CONTENTS

1. INTRODUCTION

Western Pacific Energy Corp. holds a group of 133 unpatented mining claims in Garnet township, Porcupine Mining Division, Ontario that were staked for their potential gold mineralization. Between early December 1985 and mid-February 1986, a diamond drilling programme was carried out on the property to test a number of geophysical targets outlined by earlier work.

The following report outlines the work done and the results obtained in the drilling program which totaled 5,630 feet in 14 holes.

2. SUMMARY AND RECOMMENDATIONS

The drilling programme was directed towards the testing of geophysical targets along the general northwest trending zone of chemical sediments - iron formation (IF), metavolcanics and diorites. Two general areas of economic interest were indicated. Hole G-85-3 intersected anomalous base metal mineralization between 74 and 99 feet in a sulphide-bearing cherty IF horizon in the extreme northwestern part of the property.

Anomalous values in gold over narrow widths were obtained in 3 holes in the southeastern part of the claim group. One hole contains arsenopyrite and .027 opt 930 ppb gold over 1 foot followed by 2 feet of ground core in a zone of silicification and carbonatization in felsic tuffs. The gold values of 290 and 380 ppb gold in the other 2 holes were associated with cherty iron formation.

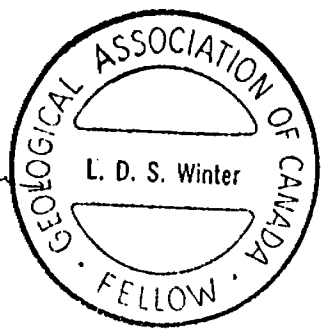
The results to date indicate that follow-up work is warranted to further evaluate the property for base metals in the northwestern part and in the southeastern part for gold mineralization.

Due to the overburden cover, it is considered that further exploration in these areas could most effectively be carried out by a combination of overburden drilling and/or stripping depending on the depth of overburden followed by diamond drilling.

Respectfully submitted,

L.D.S. Winter

L.D.S. Winter
B.A.Sc., M.Sc., F.G.A.C.
May 30, 1986



3. PROPERTY, LOCATION AND ACCESS

The Garnet township property is composed of 133 unpatented, contiguous mining claims in Garnet township, Porcupine Mining Division, District of Sudbury, Ontario at latitude 47° - 43' N, longitude 82° - 30' W.

The claim group is approximately 140 km southwest of Timmins, 75 km east of Chapleau and 175 km north of Sudbury, Ontario.

Approximately 28 km east of Sultan a gravel forest access road leads north 15 km from the Eddy Forest Products road to the Wakami River in the central part of the property.

4. WORK DONE

Longyear Canada Inc. of North Bay, Ontario was under contract to Western Pacific Energy Corp. for the drilling which was done between December 1, 1985 and February 14, 1986. A total of 5,630 feet of BQ core in 14 holes was drilled during this period.

The holes were spotted on the previously cut grid and aligned according to the grid and/or compass bearings as appropriate. Acid dip tests were taken at 200-foot intervals in the holes and the core was logged and split for assaying as required.

The core has been deposited with the Core Storage Facility of the Ministry of Northern Development and Mines in Timmins, Ontario.

Drill logs and sections showing each hole and a plan showing the hole locations accompany the report. A summary of the drilling programme is shown in Table 1.

TABLE 1

GARNET TOWNSHIP PROPERTY DRILLING

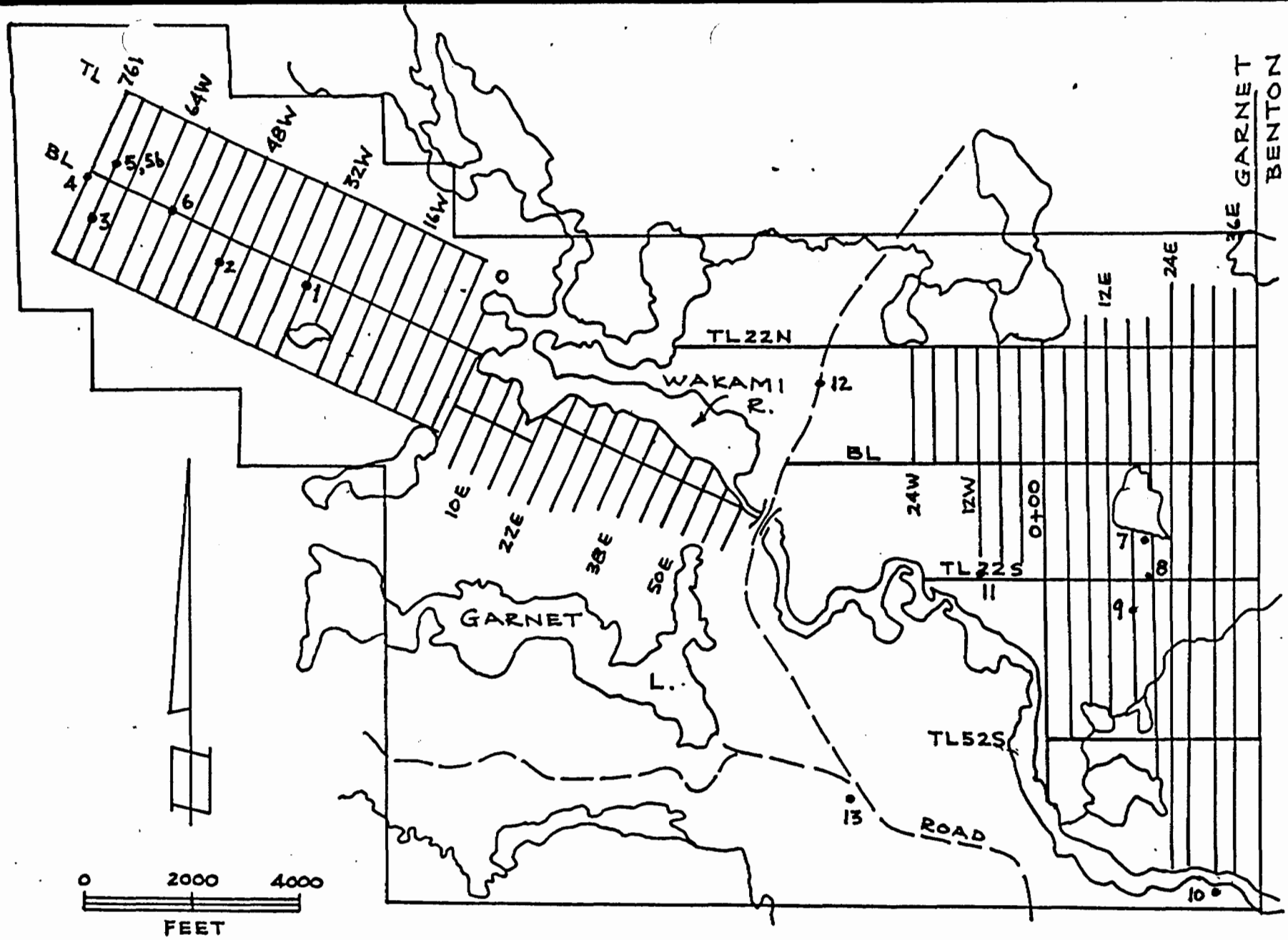
HOLE	CO-ORDINATES	LENGTH (ft)	ANGLE	AZIMUTH	CLAIM
G-85-1	L32W : 3+00S	645	-45	N30 E	798056
G-85-2	L48W : 6+30S	405	-45	N30 E	798060
G-85-3	L72W : 8+00S	465	-45	N30 E	798066
G-85-4	L76W : 0+50S	415	-45	N30 E	798066
G-85-5	L72W : 3+00N	205	-45	N30 E	798066
G-85-5b	L72W : 2+95N	465	-45	N30 E	798066
G-85-6	L60W : 0+00	300	-45	North	798061
G-85-7	L19E : 17+00S	645	-45	N30 E	797563
G-85-8	L19+50E : 22+00S	350	-45	N30 E	797564
G-85-9	L16E : 27+00S	350	-45	N30 E	797564
G-85-10	L32E : 83+50S	465	-45	North	797551
G-85-11	L12W : 21+50S	350	-45	North	797504
G-85-12	L44W : 15+00N	425	-45	N30 E	797516
G-85-13	L35W : 69+00S	145	-45	North	797509

5. RESULTS

5.1 WESTERN GRID

The first 7 holes were drilled on the western grid in the northwestern part of the property testing VLF, self-potential (SP) and magnetometer anomalies.

G-85-1 This hole was drilled to test an east-west trending coincident VLF,SP and magnetic anomaly approximately 1400 feet long. Cherty iron formation (IF) plus diorite and minor metavolcanics were intersected. Up to 30% pyrite and pyrrhotite was intersected in cherty IF betwen 329 and 453.5 feet but no values of economic significance were obtained.



• *Diamond drill hole and number*

All holes drilled in 1985 programme and prefixed G-85

GARNET TOWNSHIP PROPERTY
DRILL HOLE LOCATIONS

May 1986

G-85-2: A 600-foot long VLF anomaly with coincident magnetics was tested with this hole. Cherty IF, diorite and fragmental metavolcanics were intersected. No values of economic significance were encountered.

G-85-3: This hole tested a short (600-foot) VLF anomaly with associated anomalous SP and magnetic values. Diorite, gabbro and IF horizons were intersected but there were no gold values of significance. Anomalous copper and zinc values were obtained from 74-79 feet (1325 ppm) and 94-99 (600 ppm) respectively in an IF horizon.

G-85-4: Moderately strong east-southeast striking SP and VLF anomalies along the southern edge of a narrow magnetic anomaly were drilled in this hole. 369 feet of jasper IF was intersected containing graphitic and sulphide-rich sections. There were no assays of economic significance from the hole.

G-85-5 and G-85-5B:

Hole G-85-5 was lost due to caving at 205 feet and G-85-5b was collared 5 feet south of G-85-5. The holes were testing short but strong coincident VLF and SP anomalies. Intercalated IF, fragmental metavolcanics and porphyries were intersected in the hole. Sections of the IF carried up to 5% sulphides but no values of economic significance were obtained.

G-85-6: This hole was drilled to intersect the western end of a 4500-foot long, east-west trending VLF and 1000-foot long weak SP anomaly. From 35 to 300 feet a diorite mineralized with minor chalcopyrite, pyrrhotite and pyrite was intersected. No values of commercial significance were obtained.

5.2 EASTERN GRID

Seven holdes were drilled on or adjacent to this grid testing VLF, SP and magnetic anomalies.

G-85-7: In this area an east-southeast striking, 1000-foot long VLF conductor was drilled. There is an additional 600 feet of conductor to the west that appears to be offset 200 feet to the south. The hole intersected felsic tuff from 34 to 645 feet cut by quartz and pyrite stringers. There is considerable carbonate alteration and from 376 to 384 feet, a carbonatized, silicified and fractured zone containing pyrite and arsenopyrite was intersected. Two feet of core in this zone was ground. One foot, from 379 to 380 feet, assayed 930 ppb gold.

G-85-8 This hole was drilled on the western end of an 1800-foot long east-southeast striking VLF anomaly coincident with a very steep magnetic gradient between low values to the north and high values to the south. From south to north, diorite, gabbro and pyroxenite, followed by mafic metavolcanics, were intersected. No values of economic interest were intersected.

G-85-9: A 2500-foot long east-southeast striking VLF conductor was tested by this hole. Gabbro-pyroxenite, cherty, sulphide-rich IF and fragmental metavolcanics were intersected but there were no values of commercial significance.

G-85-10 This hole tested an approximately east-west trending VLF anomaly coincident with elevated magnetics. Quartz porphyry, IF and diorite were intersected. The IF adjacent to the quartz porphyry shows elevated gold values between 110 and 290 ppb over 19 feet. This section of the IF is badly fractured and graphitic with pyrite.

G-85-11 A 600-foot long VLF anomaly trending southeast and coincident with high magnetics was drilled in this hole. Intercalated gabbro, IF and fragmental metavolcanics were intersected. A narrow IF horizon from 184 to 188 feet assayed 380 ppb gold.

G-85-12 This hole tested an east-southeast striking airborne VLF conductor that crosses the road north of the Wakami River. Tuff and cherty, pyritic IF were intersected. No values of economic interest were obtained.

G-85-13 This hole was attempting to intersect an airborne VLF conductor adjacent to an interpreted IF horizon just west of the road in the southern part of the property. The hole penetrated 140 feet of overburden and 5 feet of mafic metavolcanics at which point it was abandoned due to the casing being broken.

6. CONCLUSIONS

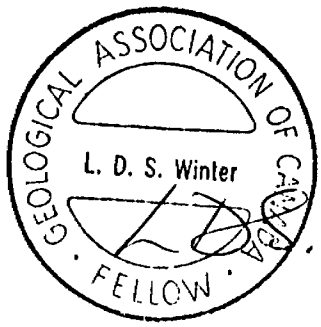
The property is extensively covered by overburden which becomes quite deep (100 feet ±) adjacent to the Wakami River in the southeastern part of the property. The 14 holes drilled in the present programme are considered to be of a preliminary nature, testing geophysical targets.

Anomalous base metal values were obtained in G-85-3 in the extreme northwestern part of the property suggesting this area should be further evaluated for stratabound copper-zinc mineralization.

In the southeastern part of the claim group three holes, G-85-7, G-85-10 and G-85-11 showed enrichment in gold associated with alteration. In particular, G-85-7 gave the best value of 930 ppb gold over 1 foot in a sheared, silicified and carbonatized felsic tuff containing pyrite and arsenopyrite. At this point, 2 feet of core was ground also. This hole

was testing a conductor 1600 feet long that appears to be offset by cross-faulting.

It is considered that the northwestern and southeastern parts of the property warrant further work to assess the results obtained to date.



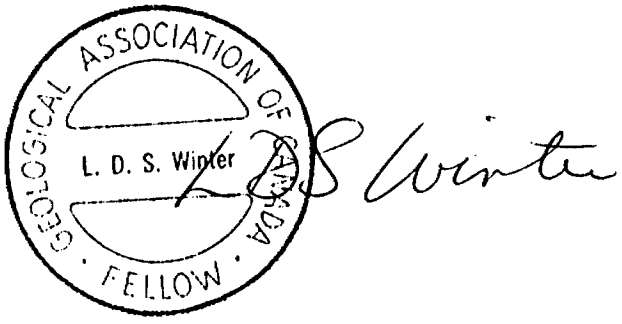
L.D.S. Winter
B.A.Sc., M.Sc., F.G.A.C.
May 30, 1986

CERTIFICATE OF QUALIFICATION

I, Lionel Donald Stewart Winter do hereby certify:

1. that I am a geologist and reside at 1849 Oriole Drive, Sudbury, Ontario, P3E 2W5,
2. that I am a Fellow of the Geological Association of Canada,
3. that I graduated from the University of Toronto in Mining Engineering in 1957 with a Bachelor of Applied Science and from McGill University, Montreal in 1961 with a Master of Science (Applied) in Geology,
4. that I have practised my profession continuously for 25 years,
5. that my report on the Diamond Drilling Program on the Garnet Township property is based on my knowledge of the programme as it was being carried out and on a review of drill logs and sections;

L.D.S. Winter
B.A. Sc., M.Sc., F.G.A.C.
May 30, 1986



Ministry of Northern Development and Mines

Ontario

Report of Work

1.99/86.

Mining A

41009NW0086 2.9200 GARNET

900

Name and Address of Recorded Holder

D.G. Innes — Garrit Twp — C-32477

1275 Main Street West, North Bay, Ontario. P1B 2W7

Summary of Work Performance and Distribution of Credits

Total Work Days Cr. claimed ~~5,672~~ 5,630

for Performance of the following work. (Check one only)

- ☐ Manual Work
- ☐ Shaft Sinking Drifting or other Lateral Work.
- ☐ Compressed Air, other Power driven or mechanical equip.
- ☐ Power Stripping
- ☒ Diamond or other Core drilling
- ☐ Land Survey

Mining Claim Prefix	Mining Claim Number	Work Days Cr.	Mining Claim Prefix	Mining Claim Number	Work Days Cr.	Mining Claim Prefix	Mining Claim Number	Work Days Cr.
	797501	55		797509	55		797517	55
	797502	55		797510	55		797518	55
	797503	55		797511	55		797519	55
	797504	55		797512	55		797520	55
	797505	55		797513	55		797521	55
	797506	55		797514	55		797524	55
	797507	55		797515	55		797525	55
	797508	55		797516	55		797526	55

All the work was performed on Mining Claim(s): P-798056, 798060, 798066, 798061, 797563, 797564, 797551, 797504 797516, 797509

Required Information eg: type of equipment, Names, Addresses, etc. (See Table Below)

Longyear Canada Inc.
1111 Main Street West
North Bay, Ontario.

RECORDED
JUN 17 1986

PORCUPINE MINING DIVISION
RECEIVED
JUN 17 1986

Daimond Drill core size BQ

Drilling from November 30, 1985 to February 14, 1986

P-797509

ONTARIO GEOLOGICAL SURVEY
ASSESSMENT FILES
RESEARCH OFFICE
JUL 3 1986
RECEIVED

Date of Report: April 21, 1986

Recorded Holder or Agent (Signature): D. Dubeau

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

Quinterra Resources Inc., 1275 Main Street West, North Bay, Ont. P1B 2W7

Date Certified: April 21, 1986

Certified by (Signature): D. Dubeau

Table of Information/Attachments Required by the Mining Recorder

Type of Work	Specific Information per type	Other Information (Common to 2 or more types)	Attachments
Manual Work	NIl	Names and addresses of men who performed manual work/operated equipment, together with dates and hours of employment.	Work Sketch: these are required to show the location and extent of work in relation to the nearest claim post.
Shaft Sinking, Drifting or other Lateral Work			
Compressed air, other power driven or mechanical equip.	Type of equipment		
Power Stripping	Type of equipment and amount expended. Note: Proof of actual cost must be submitted within 30 days of recording.	Names and addresses of owner or operator together with dates when drilling/stripping done.	
Diamond or other Core Drilling	Number of holes, size, depth in metres, total metres.		Work Sketch (as

your file 2.9200

Ministry of Natural Resources
Ontario

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

#191/86

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)	Township or Area
Assaying	Garnet Township

Claim Holder(s)	Prospector's Licence No.
D.G. Innes	C-32477

Address: 1275 Main Street West, North Bay, Ontario P1B 2W7

Survey Company	Date of Survey (from & to)	Total Miles of line Cut
Bondar Clegg (Bell White)	20 12 85 (Day Mo. Yr.) 17 02 86 (Day Mo. Yr.)	

Name and Address of Author (of Geo-Technical report): 5420 Canotek Road, Ottawa, Ontario (Box 187, Haileybury, Ontario)

Credits Requested per Each Claim in Columns at right

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

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

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

RECEIVED JUN 17 1986 MINING LANDS SECTION

RECORDED JUN 17 1986

Mining Claims Traversed (List in numerical sequence)

Mining Claim Prefix	Mining Claim Number	Expend. Days Cr.
P	797522	5
	797523	5
	797531	5
	797532	5
	797535	5
	797536	5
	797537	5
	797538	5
	797545	6
	797547	6
	797548	6
	797550	6
	797551	6
	797552	6
	797553	6
	797554	6
	797555	6
	797556	6
	797557	6
	797558	6
	797561	6
	797562	6
	797546	6

Mining Claim Prefix	Mining Claim Number	Expend. Days Cr.
	797563	6
	797564	6
	797565	6
	797566	6
	797567	6
	797571	6
	797572	6
	797573	6
	797574	6
	797575	6
	798029	6
	798032	6
	798033	6
	798034	6
	798035	6
	798046	6
	798047	6
	798055	6
	798056	6
	798057	6
	798059	6
	798060	6
	798061	6

PORCUPINE MINING DIVISION RECEIVED JUN 17 1986

Total number of mining claims covered by this report of work: 55

Expenditures (excludes power stripping) Sect 77-19

Type of Work Performed: Assaying

Performed on Claim(s):

Calculation of Expenditure Days Credits

Total Expenditures			=	Total Days Credits
$ 4,836.70	÷	15	=	322.4

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	Recorded Holder or Agent (Signature)
April 21, 1986	M. Dubeau

For Office Use Only

Total Days Cr. Recorded	Date Recorded	Mining Recorder
322	Jun 17/86	Stanley
	Date Approved as Recorded	Branch Director
	See Revised Statement	

Certification Verifying Report of Work

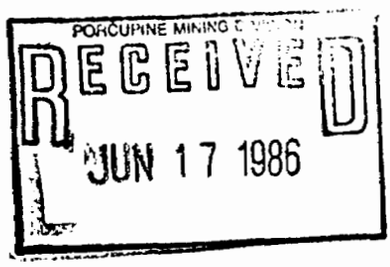
I hereby certify that I have a personal and intimate knowledge of the facts set forth in the Report of Work annexed hereto, having performed the work or witnessed same during and/or after its completion and the annexed report is true.

Name and Postal Address of Person Certifying: Michelle Dubeau, Quinterra Resources Inc., 1275 Main Street West, North Bay, Ont. P1B 2W7

	Date Certified	Certified by (Signature)
	April 21/86	M. Dubeau

1262 (81/01)

MINING CLAIM NUMBER	WORK DAY CREDITS
798062	6
798065	6
798066	6
798067	6
798069	6
798087	6
798088	6
798093	6
798094	6



Mining Lands Section

File No 2.9200

Control Sheet

TYPE OF SURVEY

____ GEOPHYSICAL

____ GEOLOGICAL

____ GEOCHEMICAL

__✓__ EXPENDITURE

MINING LANDS COMMENTS:

$-0K.

Ld.
Lgd.

Signature of Assessor

Date

July 18, 1986

Your File: 191/86
Our File: 2.9200

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

Dear Sir:

RE: Assaying submitted under Section 77(19) of the Mining Act R.S.O. 1980, on Mining Claims P 797504, et al, in Garnet Township

---

The enclosed statement of assessment work credits for 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,

J.C. Smith, Supervisor
Mining Lands Section

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

Telephone: (416) 965-4888

SH/mc
cc: D.G. Innes
1275 Main Street West
North Bay, Ontario
P1B 2W7

Bondar Clegg
5420 Canotek Road
Ottawa, Ontario
K1J 8X5

Michelle Dubeau
Quinterra Resources Inc
1275 Main Street West
North Bay, Ontario
P1B 2W7

Resident Geologist
Timmins, Ontario

Bell White
Box 187
Haileybury, Ontario
P0J 1K0

Encl.

Ministry of Northern Development and Mines

Ontario

Technical Assessment Work Credits

File: 2.9200

Date: July 18, 1986

Mining Recorder's Report of Work No.: 191/86

Recorded Holder: D.G. INNES

Township or Area: GARNET TOWNSHIP

Type of survey and number of Assessment days credit per claim	Mining Claims Assessed
Geophysical	$4836.70 SPENT ON ASSAYING SAMPLES TAKEN FROM MINING CLAIMS: P 797504-09-16-51-63-64 798056-60-61-66
Electromagnetic _____ days	
Magnetometer _____ days	
Radiometric _____ days	
Induced polarization _____ days	
Other _____ days	
Section 77 (19) See "Mining Claims Assessed" column	322.4 DAYS CREDIT ALLOWED WHICH MAY BE GROUPED IN ACCORDANCE WITH SECTION 76(6) OF THE MINING ACT R.S.O. 1980.
Geological _____ days	
Geochemical _____ days	FOR MINING RECORDER'S USE:
Man days ☐ Airborne ☐	The work assignment for each of the above listed 10 claims is 32.24 days per claim.
Special provision ☐ Ground ☐	
☐ 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 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 each claim does not exceed the maximum allowed as follows: Geophysical - 80; Geologocal - 40; Geochemical - 40; Section 77(19) - 60.

Quinterra Resources Inc.

1275 Main Street West
North Bay, Ontario
P1B 2W7

Telephone: (705) 476-4003
(705) 476-4005
Telecopier: (705) 476-5628

July 4, 1986

Mr. Ray Pichette
6th floor
Whitney Block
Queen's Park
Toronto, Ontario
M7A 1W3

Re: Proof of payment on mining claims P797522, et al,
in the Township of Garnet (file: 2.9200)

Dear Sir:

Further to our telephone conversation on July 4, 1986, I am enclosing the cancelled cheques and invoices (in duplicate) for the drill core assays in the Garnet township.

The assay results and location plan are submitted with the drill report and logs.

Trusting all is satisfactory, I remain.

Sincerely yours,

M. Dubeau

Michelle Dubeau
Resource Geologist

QUINTERRA RESOURCES INC.
POST OFFICE BOX 447,
NORTH BAY, ONTARIO P1B 8J1
TELEPHONE 476-4003

0717

Jan 15 1986

PAY TO THE ORDER OF Bell-Kite Analytical Laboratories Ltd. $ 165.00

SUM OF One Hundred Sixty-five ——— 00/100 DOLLARS

QUINTERRA RESOURCES INC.

THE TORONTO-DOMINION BANK
COMMERCIAL BANKING CENTRE
199 MAIN ST. E. & WYLD ST.,
NORTH BAY, ONTARIO P1B 8H5

PER Norma G. Lashbrook

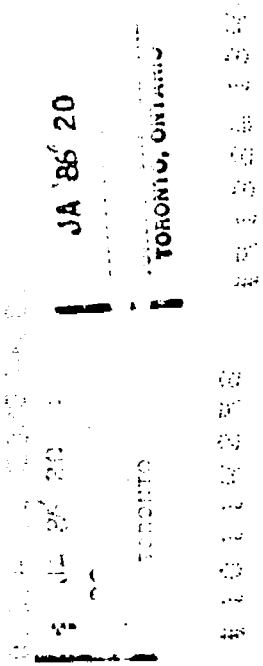
⑈0007 17⑈ ⑆31202⑈004⑆ 0390⑈085096 9⑈ c/f ⑈0000018500⑈

invoice 19768 165.00

DEPOSIT TO THE CREDIT OF
Bell-White Analytical
Laboratories Ltd.

[illegible]2
THE BANK OF NOVA SCOTIA
HAILEYBURY, ONTARIO

80382-002



QUINTERRA RESOURCES INC.

~~POST OFFICE BOX 447,~~ 321 Algonquin Ave.
NORTH BAY, ONTARIO ~~P1B 8J1~~ P1B 4W1
TELEPHONE 476-4003

0685

Jan 6 19 86

PAY TO THE ORDER OF Bell-White Analytical Laboratories $ 44.00

SUM OF Forty-four 00/100 DOLLARS

QUINTERRA RESOURCES INC.

THE TORONTO-DOMINION BANK
COMMERCIAL BANKING CENTRE
199 MAIN ST. E. & WYLD ST.,
NORTH BAY, ONTARIO P1B 8H5

PER Norma G. Lashbrook

⑈000685⑈ ⑆31202⑈004⑆ 0390⑈0850969⑈ - 4/ ⑈000004400⑈

invoice 19756 44.00

DEPOSIT TO THE CREDIT OF
Bellwhite Analytical
Laboratories Ltd.

80382-002

THE BANK OF NOVA SCOTIA
HAILEYBURY, ONTARIO

80382-002

5 JA '86 10 5
SCOTIABANK
DATA CENTRE
TORONTO

JA '86 10
TORONTO DOMINION BANK
TORONTO DATA CENTRE
TORONTO, ONTARIO

QUINTERRA RESOURCES INC.
POST OFFICE BOX 447,
NORTH BAY, ONTARIO P1B 8J1
TELEPHONE 476-4003

0838

Nov 4 19 86

PAY TO THE ORDER OF Bondar Clegg $2335.97

SUM OF Two Thousand, three Hundred Thirty five — 97/100 DOLLARS

QUINTERRA RESOURCES INC.

THE TORONTO-DOMINION BANK
COMMERCIAL BANKING CENTRE
199 MAIN ST. E. & WYLD ST.,
NORTH BAY, ONTARIO P1B 8H5

PER Norma D. Lashbrook

re/ 115616, 115615

⑈000838⑈ ⑆31202⑈0041⑆ 0390⑈0850969⑈ ⑈0002335970⑈

invoice	115-927	1145.40
	115-840	147.90
	116029	522.00
		1815.30

MR 86 11

QUINTERRA RESOURCES INC.
POST OFFICE BOX 447,
NORTH BAY, ONTARIO P1B 8J1
TELEPHONE 476-4003

0826

Mar 3 1986

PAY TO THE ORDER OF Bondar Clegg & Co. Ltd. $1815.30

SUM OF One Thousand, Eight Hundred & Fifteen 30/100 DOLLARS

QUINTERRA RESOURCES INC.

THE TORONTO-DOMINION BANK
COMMERCIAL BANKING CENTRE
199 MAIN ST. E. & WYLD ST.,
NORTH BAY, ONTARIO P1B 8H5

PER Donna G. Lashbrook

ref 116029, 115840

⑈0008 26⑈ ⑆31202⑈004⑆ 0390⑈0850969⑈ ⑈0001815 30⑈

invoice 115616 556.80
115615 278.40
835.20

QUINTERRA RESOURCES INC.
~~POST OFFICE BOX 447~~,
NORTH BAY, ONTARIO P1B 8J1
TELEPHONE 476-4003

0791

Feb 6 19 86

PAY TO THE ORDER OF Bradley Clegg $ 504.60

SUM OF Five Hundred + Four 60/100 DOLLARS

QUINTERRA RESOURCES INC.

THE TORONTO-DOMINION BANK
COMMERCIAL BANKING CENTRE
199 MAIN ST. E. & WYLD ST.,
NORTH BAY, ONTARIO P1B 8H5

PER Norma H. Lashbrook

⑈0007916⑈ ⑆31202⑉004⑆ 0390⑉0850969⑈ ⑈000050460⑈

invoice 115651 504.60

FB '86' 11

LA BANQUE TORONTO DOMINION
CENTRE DES DONNEES
MONTREAL, QUEBEC

FEB 11 86

FOR DEPOSIT ONLY
TO THE CREDIT OF
106-637-
00086-003

QUINTERRA RESOURCES INC. 0716

~~POST OFFICE BOX 147~~ 321 Algonquin Ave.
NORTH BAY, ONTARIO ~~P1B 8J1~~ P1B 4W1
TELEPHONE 476-4003

Jan 15 19 86

PAY TO THE ORDER OF Bondar Clegg a Company $ 1472.60

SUM OF One Thousand, Four Hundred Seventy two — 60/100 DOLLARS

QUINTERRA RESOURCES INC.

THE TORONTO-DOMINION BANK
COMMERCIAL BANKING CENTRE
199 MAIN ST. E. & WYLD ST.,
NORTH BAY, ONTARIO P1B 8H5

PER Norma G. Lashbrook

115421

⑈0007160⑈ ⑆31202⑈004⑆ 0390⑈0850969⑈ 115425 ⑈0001472600⑈

invoice 115425 $1263.80
115421 208.80
$1472.60

July 2, 1986 File: 2.9200

D.G. Innes
1275 Main Street West
North Bay, Ontario
P1B 2W7

Dear Sir:

RE: Data for Assaying submitted on Mining Claims
P 797522, et al, in the Township of Garnet

In order to complete the above-described submission, the following information is required (in duplicate):

1. Assay results.

2. Sample location plan showing assay results or sample numbers.

3. Verification of payment for the $4,836.70 expenditure credits claimed. Attached is a list of acceptable forms of proof of payment.

When submitting this material, please quote file 2.9200.

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

Yours sincerely,

J.C. Smith, Supervisor
Mining Lands Section

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

Telephone: (416) 965-4888
SH/mc
cc: Mining Recorder
Timmins, Ontario
#191/86

Encl.

- assays of split core - info could be on drill logs in library - please check & confirm - verification of payment will be provided shortly.

86.07.04
- received call from Michelle Dubeau / Quantum.

Quinterra
Resources Inc.

1275 Main Street West
North Bay, Ontario
P1B 2W7

Telephone: (705) 476-4003
(705) 476-4005
Telecopier: (705) 476-5628

June 16, 1986

Ministry of Natural Resources
Mining Recorders Office
99 Wellesley Street West
Room 2548
Toronto, Ontario
M7A 1W3

Re: Claims in Garnet Township held by D.G. Innes

Please find enclosed the Assay invoices for the Garnet property.

Trusting all is satisfactory, I remain,

Sincerely Yours

M Dubeau

Michelle Dubeau
Resource Geologist.

Encl.

Laboratory Ltd.
705-749-2220

BONDAR-CLEGG

Invoice : 115927, Page 1

QUINTERRA RESOURCES INC.
D.G. INNES
321 ALGONQUIN AVE.
NORTH BAY, ONTARIO.
P1B 4W1

Date : 17-FEB-86

Report No: 016-0466
Project : 1414
Reference:

8 Analyses of Silver	at $ 2.00	$ 16.00		
Subtotal		$ 16.00	$	16.00
65 Analyses of Gold -150 Fraction	at $ 6.75	$ 438.75		
65 Analyses of Gold +150 Fraction	at $ 6.75	$ 438.75		
65 Analyses of Gold Weight Average	at $ 1.00	$ 65.00		
65 Analyses of Au Test Weight -150	at $ 0.00	$ 0.00		
65 Analyses of Weight -150 Obtained	at $ 0.00	$ 0.00		
65 Analyses of Weight +150 Obtained	at $ 0.00	$ 0.00		
Subtotal		$ 942.50	$	942.50
Sample Preparation				
65 Samples of METALLICS +150/-150	at $ 2.90	$ 188.50		
Subtotal		$ 188.50	$	188.50
Miscellaneous Charges				
Less: 10% discount on Silver		$ 1.60		AMOUNT
Subtotal		$ -1.60	$	-1.60
Invoice Total:			$	1145.40 Cdn

RECEIVED
FEB 20 1986

THIS IS A PROFESSIONAL SERVICE
ACCOUNTS DUE WHEN RENDERED

...mpany Ltd.
...ld.,
...rio,
...P 8X5
...(613) 749-2220
...233

BONDAR-CLEGG

Invoice : 115840, Page 1

QUINTERRA RESOURCES INC.
D.G. INNES
321 ALGONQUIN AVE.
NORTH BAY, ONTARIO.
P1B 4W1

Date : 12-FEB-86

Report No: 016-0410
Project : 1414
Reference:

10 Analyses of Gold -150 Fraction	at $ 6.75	$ 67.50		
10 Analyses of Gold +150 Fraction	at $ 6.75	$ 67.50		
10 Analyses of Gold Weight Average	at $ 1.00	$ 10.00		
10 Analyses of Au Test Weight -150	at $ 0.00	$ 0.00		
10 Analyses of Weight -150 Obtained	at $ 0.00	$ 0.00		
10 Analyses of Weight +150 Obtained	at $ 0.00	$ 0.00		
Subtotal		$ 145.00	$	145.00
Sample Preparation				
1 Sample of METALLICS +150/-150	at $ 2.90	$ 2.90		
Subtotal		$ 2.90	$	2.90
Invoice Total:			$	147.90 Cdn

THIS IS A PROFESSIONAL SERVICE
ACCOUNTS DUE WHEN RENDERED

& Company Ltd.
holck Rd.,
a, Ontario,
nada K1J 8X5
Phone: (613) 2220
Telex: 053-3

BONDAR-CLEGG

Invoice : 115425, Page 1

QUINTERRA RESOURCES INC.
D.G. INNES
321 ALGONQUIN AVE.
NORTH BAY, ONTARIO.
P1B 4W1

Date : 9-JAN-86

Report No: 015-4350
Project : 1414
Reference:

3 Analyses of Silver	at	$ 2.00	$ 6.00		
1 Analyses of Copper	at	$ 1.00	$ 1.00		
2 Analyses of Zinc	at	$ 2.00	$ 4.00		
Subtotal			$ 11.00	$	11.00
72 Analyses of Gold -150 Fraction	at	$ 6.75	$ 486.00		
72 Analyses of Gold +150 Fraction	at	$ 6.75	$ 486.00		
72 Analyses of Gold Weight Average	at	$ 1.00	$ 72.00		
72 Analyses of Au Test Weight -150	at	$ 0.00	$ 0.00		
72 Analyses of Weight -150 Obtained	at	$ 0.00	$ 0.00		
72 Analyses of Weight +150 Obtained	at	$ 0.00	$ 0.00		
Subtotal			$ 1044.00	$	1044.00
Sample Preparation					
72 Samples of METALLICS +150/-150	at	$ 2.90	$ 208.80		
Subtotal			$ 208.80	$	208.80

Invoice Total: $ 1263.80 Cdn

THIS IS A PROFESSIONAL SERVICE
ACCOUNTS DUE WHEN RENDERED

Rd.,
ario.
1J 8X5
-2220

BONDAR-CLEGG

Invoice : 116029, Page 1

QUINTERRA RESOURCES INC.
D.G. INNES
321 ALGONQUIN AVE.
NORTH BAY, ONTARIO.
P1B 4W1

Date : 24-FEB-86

Report No: 016-0597
Project : 1414
Reference:

30 Analyses of Gold -150 Fraction	at $	6.75	$ 202.50	
30 Analyses of Gold +150 Fraction	at $	6.75	$ 202.50	
30 Analyses of Gold Weight Average	at $	1.00	$ 30.00	
30 Analyses of Au Test Weight -150	at $	0.00	$ 0.00	
30 Analyses of Weight -150 Obtained	at $	0.00	$ 0.00	
30 Analyses of Weight +150 Obtained	at $	0.00	$ 0.00	
Subtotal			$ 435.00	$ 435.00
Sample Preparation				
30 Samples of METALLICS +150/-150	at $	2.90	$ 87.00	
Subtotal			$ 87.00	$ 87.00
Invoice Total:				$ 522.00 Cdn

Approved

THIS IS A PROFESSIONAL SERVICE
ACCOUNTS DUE WHEN RENDERED

Bondar-Clegg & Company Ltd.
5420 Canotek Rd.,
Ottawa, Ontario,
Canada K1J 8X5
Phone: (613) 749-2220
Telex: 053-3233

BONDAR-CLEGG

Invoice : 115651, Page 1

Date : 31-JAN-86

Report No: 016-0234
Project : 1414
Reference:

QUINTERRA RESOURCES INC.
P. BROWN
321 ALGONQUIN AVE.
NORTH BAY, ONTARIO.
P1B 4W1

29 Analyses of Gold -150 Fraction	at	$	6.75	$ 195.75	
29 Analyses of Gold +150 Fraction	at	$	6.75	$ 195.75	
29 Analyses of Gold Weight Average	at	$	1.00	$ 29.00	
29 Analyses of Au Test Weight -150	at	$	0.00	$ 0.00	
29 Analyses of Weight -150 Obtained	at	$	0.00	$ 0.00	
29 Analyses of Weight +150 Obtained	at	$	0.00	$ 0.00	
Subtotal				$ 420.50	$ 420.50
Sample Preparation					
29 Samples of METALLICS +150/-150	at	$	2.90	$ 84.10	
Subtotal				$ 84.10	$ 84.10
Invoice Total:					$ 504.60 Cdn

RECEIVED
FEB 03 1986

THIS IS A PROFESSIONAL SERVICE
ACCOUNTS DUE WHEN RENDERED

Company Ltd.
Rock Rd.,
Ontario,
da K1J 8X1
Phone: (613)
Telex: 053-32

BONDAR-CLEGG

Invoice : 115421, Page 1

QUINTERRA RESOURCES INC.
D.G. INNES
321 ALGONQUIN AVE.
NORTH BAY, ONTARIO.
P1B 4W1

Date : 9-JAN-86

Report No: 015-4395
Project : NONE
Reference:

12 Analyses of Gold -150 Fraction	at	$ 6.75	$	81.00	
12 Analyses of Gold +150 Fraction	at	$ 6.75	$	81.00	
12 Analyses of Gold Weight Average	at	$ 1.00	$	12.00	
12 Analyses of Au Test Weight -150	at	$ 0.00	$	0.00	
12 Analyses of Weight -150 Obtained	at	$ 0.00	$	0.00	
12 Analyses of Weight +150 Obtained	at	$ 0.00	$	0.00	
Subtotal			$	174.00	$ 174.00
Sample Preparation					
12 Samples of METALLICS +150/-150	at	$ 2.90	$	34.80	
Subtotal			$	34.80	$ 34.80

Invoice Total: $ 208.80 Cdn

#j414

THIS IS A PROFESSIONAL SERVICE
ACCOUNTS DUE WHEN RENDERED

...Company Ltd.
...Rd.,
...Ontario,
...K1J ...
...ne: (613) ...20
...lex: 053-32...

BONDAR-CLEGG

Invoice : 115615, Page 1

QUINTERRA RESOURCES INC.
321 ALGONQUIN AVE.
NORTH BAY, ONTARIO
P1B 4W1

Date : 29-JAN-86

Report No: 016-0119
Project : 1414
Reference:

16 Analyses of Gold -150 Fraction	at	$ 6.75	$	108.00	
16 Analyses of Gold +150 Fraction	at	$ 6.75	$	108.00	
16 Analyses of Gold Weight Average	at	$ 1.00	$	16.00	
16 Analyses of Au Test Weight -150	at	$ 0.00	$	0.00	
16 Analyses of Weight -150 Obtained	at	$ 0.00	$	0.00	
16 Analyses of Weight +150 Obtained	at	$ 0.00	$	0.00	
Subtotal			$	232.00	$ 232.00
Sample Preparation					
16 Samples of METALLICS +150/-150	at	$ 2.90	$	46.40	
Subtotal			$	46.40	$ 46.40

Invoice Total: $ 278.40 Cdn

RECEIVED
FEB 07 1986

THIS IS A PROFESSIONAL SERVICE
ACCOUNTS DUE WHEN RENDERED

...Company Ltd.
...K Rd.,
...Ontario,
...K1J 8X5
...e: (613) ...020
...elex: 053-32...

BONDAR-CLEGG

Invoice # 11Sote. Page 1

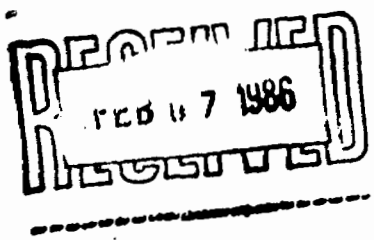
GUINTERRA RESOURCES INC.
321 ALGONQUIN AVE.
NORTH BAY, ONTARIO
P1B 4W1

Date : 29-JAN-86

Report No: 015-0151
Project : NONE
Reference:

32 Analyses of Gold -150 Fraction	at	$	6.75	$ 216.00	
32 Analyses of Gold +150 Fraction	at	$	6.75	$ 216.00	
32 Analyses of Gold Weight Average	at	$	1.00	$ 32.00	
32 Analyses of Au Test Weight -150	at	$	0.00	$ 0.00	
32 Analyses of Weight -150 Obtained	at	$	0.00	$ 0.00	
32 Analyses of Weight +150 Obtained	at	$	0.00	$ 0.00	
Subtotal				$ 464.00	$ 464.00
Sample Preparation					
32 Samples of METALLICS +150/-150	at	$	2.90	$ 92.80	
Subtotal				$ 92.80	$ 92.80
Invoice Total:					$ 556.80 Can

1414



THIS IS A PROFESSIONAL SERVICE
ACCOUNTS DUE WHEN RENDERED

BELL-WHITE ANALYTICAL LABORATORIES LTD.

P.O. BOX 187 HAILEYBURY, ONTARIO TEL: (705) 672-3307
POJ 1KO

Quinterra Resources Inc.,
321 Algonquin Avenue,
North Bay, Ontario.
P1B 4W1

INVOICE № 19756

ORDER NO.

DATE December 20, 1985

RTIFICATE NO.	DATE	DESCRIPTION	AMOUNT
3732-85	Dec.20/85	4 Au @ $8.50	$ 34.00
		4 sample preparations @ $2.50	10.00
			$ 44.00

1414 - 530

PAID
JAN 06 1986
#685

RECEIVED
DEC 27 1985

Garnet.

BELL-WHITE ANALYTICAL LABORATORIES LTD.
P.O. BOX 187 HAILEYBURY, ONTARIO TEL: (705) 672-3107
POJ 1KO

Quinterra Resources Inc.,
321 Algonquin Avenue,
North Bay, Ontario.
P1B 4W1

INVOICE № 19768

ORDER NO.

DATE December 23, 1985

RTIFICATE NO.	DATE	DESCRIPTION	AMOUNT
3735-85	Dec.23/85	15 Au @ $8.50	$ 127.50
		15 sample preparations @ $2.50	37.50
			$ 165.00

Garnet

RECEIVED
DEC 30 1985

010

Diamond Drilling

Township of GARNET

Report Nº 14

Work performed by: Canadian Nickel Co. Limited

Claim Nº	Hole Nº	Footage	Date	Note
S 131898	31914	443.0'	Aug/66	
	31915	507.0'	Aug/66	

Notes:

FORM 555-A

THE INTERNATIONAL NICKEL CO. OF CANADA, LIMITED

SAMPLING RECORD

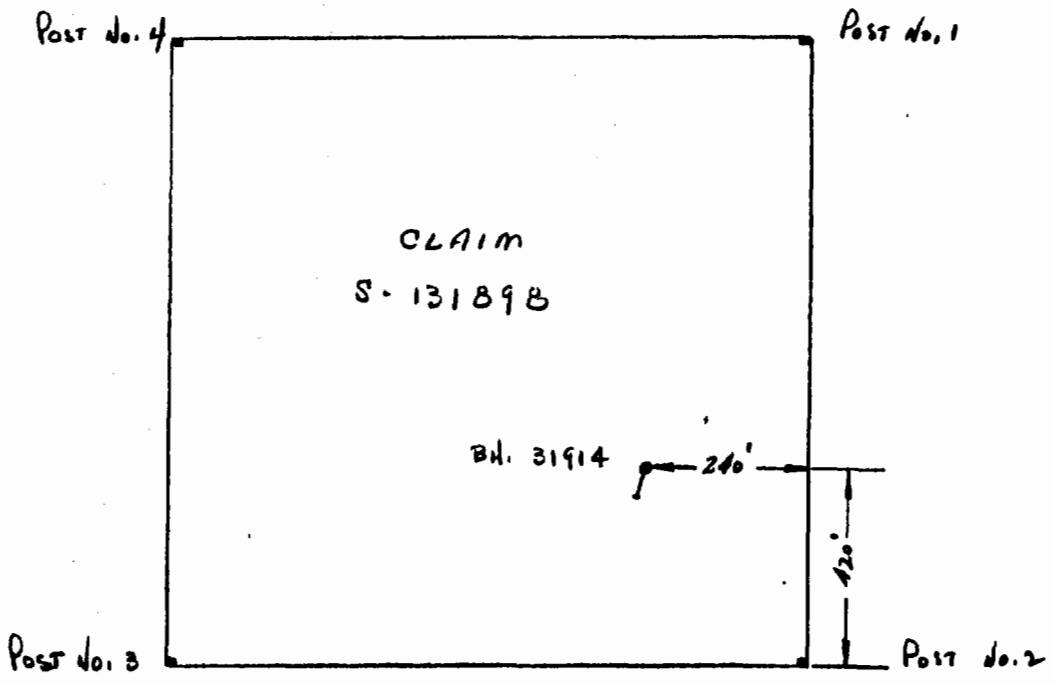
PROPERTY Robin Area Anomaly 4-29 Claim S 131898

SHEET NO. 4

HOLE NO. 31914 DEPTH 443.0 ANGLE -50°00' STRIKE South ELEVATION

CO-ORDINATES 0+00 3+50 N

DEPTH FEET	FORMATION	SAMPLE NO.	LENGTH FT.	ANALYSIS COPPER %	ANALYSIS NICKEL %	ANALYSIS CU. & NI. %	LENGTH FEET	PROGRESSIVE TOTALS FEET X PER CENT COPPER	PROGRESSIVE TOTALS FEET X PER CENT NICKEL	PROGRESSIVE TOTALS FEET X PER CENT CU. & NI.
	Summary Log									
0.0	Collar									
46.0	Ledge, AX casing, Ex casing, start of core									
106.5	Iron formation, cherty jasper with bands and stringers magnetite and hematite, with limonite on fracture faces									
216.1	Iron formation, bands magnetite, hematite, goethite, specularite with numerous cherty interbeds									
318.4	Iron formation, cherty jasper, magnetite & hematite bands, numerous vuggy shears and fractures									
331.6	Quartzite, brecciated and recemented with oxides of iron									
443.0	Iron formation, hematite magnetite goethite, ore vuggy zones, chert & jasper interbeds									
443.0	Foot of hole									
	Date started August 2 1966				ACID TESTS CORRECTED					
	Date completed August 18 1966					40	49° 30'			
	Drilled by Heath and Sherwood Drilling Company Ltd					140	49° 30'			
	Logged by G.A. Maclean					240	51° 15'			
						340	52° 15'			
	No X or B response					440	53° 00'			
	making water near 435'-3 gpm									
	SIZE OF CORE EXT									
	MATERIAL LEFT IN HOLE NIL									



LOCATION SKETCH
of DRILL HOLE: 31914
LOCATED ON CL. S-131898
GARNET TWP.
SUDBURY MINING DIVISION
SCALE: 1 INCH = 400 ft.

FORM 208-A

THE INTERNATIONAL NICKEL CO. OF CANADA, LIMITED

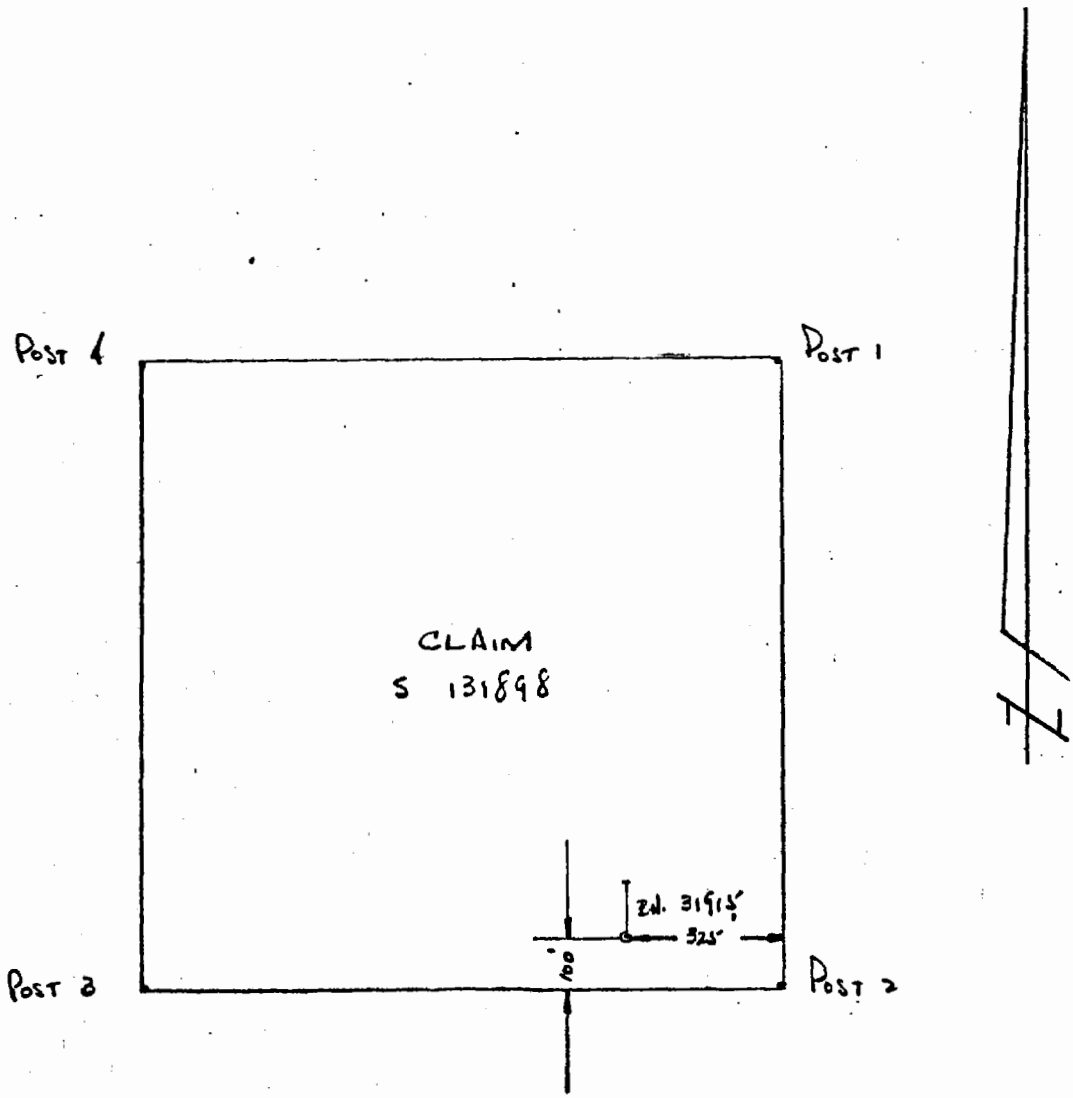
PROPERTY ROBIN ANOMALY 4-29

SAMPLING RECORD

SHEET NO. 1

HOLE NO. 31915 DEPTH 507.0 ANGLE 50° 00 STRIKE N ELEVATION 0+00 CO-ORDINATES 3+50S

DEPTH FEET	FORMATION	SAMPLE NO.	LENGTH FT.	ANALYSIS COPPER %	ANALYSIS NICKEL %	ANALYSIS CU. & NI. %	LENGTH FEET	PROGRESSIVE TOTALS FEET X PER CENT COPPER	PROGRESSIVE TOTALS FEET X PER CENT NICKEL	PROGRESSIVE TOTALS FEET X PER CENT CU. & NI.
	Summary Log									
0.0	Collar									
19.0	Bx casing, sand/cobbles									
21.0	A casing									
25.0	Ex casing, start of core @ 24.0									
49.6	Greenstone, andesite									
56.7	Tuff, intermediate									
108.0	Greenstone									
118.0	Graphite schist									
137.6	Quartzite									
139.8	Argillite									
164.0	Quartzite									
507.0	Iron formation, cherty									
	Date started August 21 1966						Acid Tests Corrected			
	Date completed September 4 1966						15	41°45'		
	Drilled by Heath & Sherwood Drilling Ltd						115	44°45		
	Logged by K.H. MacLean						215	36°45		
							315	38°45		
	Size of Core EXT						402	39°45		
	material left in hole 16 ft Ex rods (broken off, open, stuck in element									
	Note									
	hole cemented extensively to stabilize cave and sand									
	rods were dropped into cement and subsequently broken off									
	x β response - nil									



LOCATION SKETCH
of BORE HOLE: 31915
LOCATED ON CL. S-131898
GARNET TWP.
SUDBURY MINING DIVISION
SCALE: 1 INCH = 400 Ft.

010

Diamond Drilling

Township of GARNET

Report Nº 12

Work performed by: Canadian Nickel Co. Limited

Claim Nº	Hole Nº	Footage	Date	Note
S 131037	31912	437.0'	July/66	

Notes:

IRM 255-A

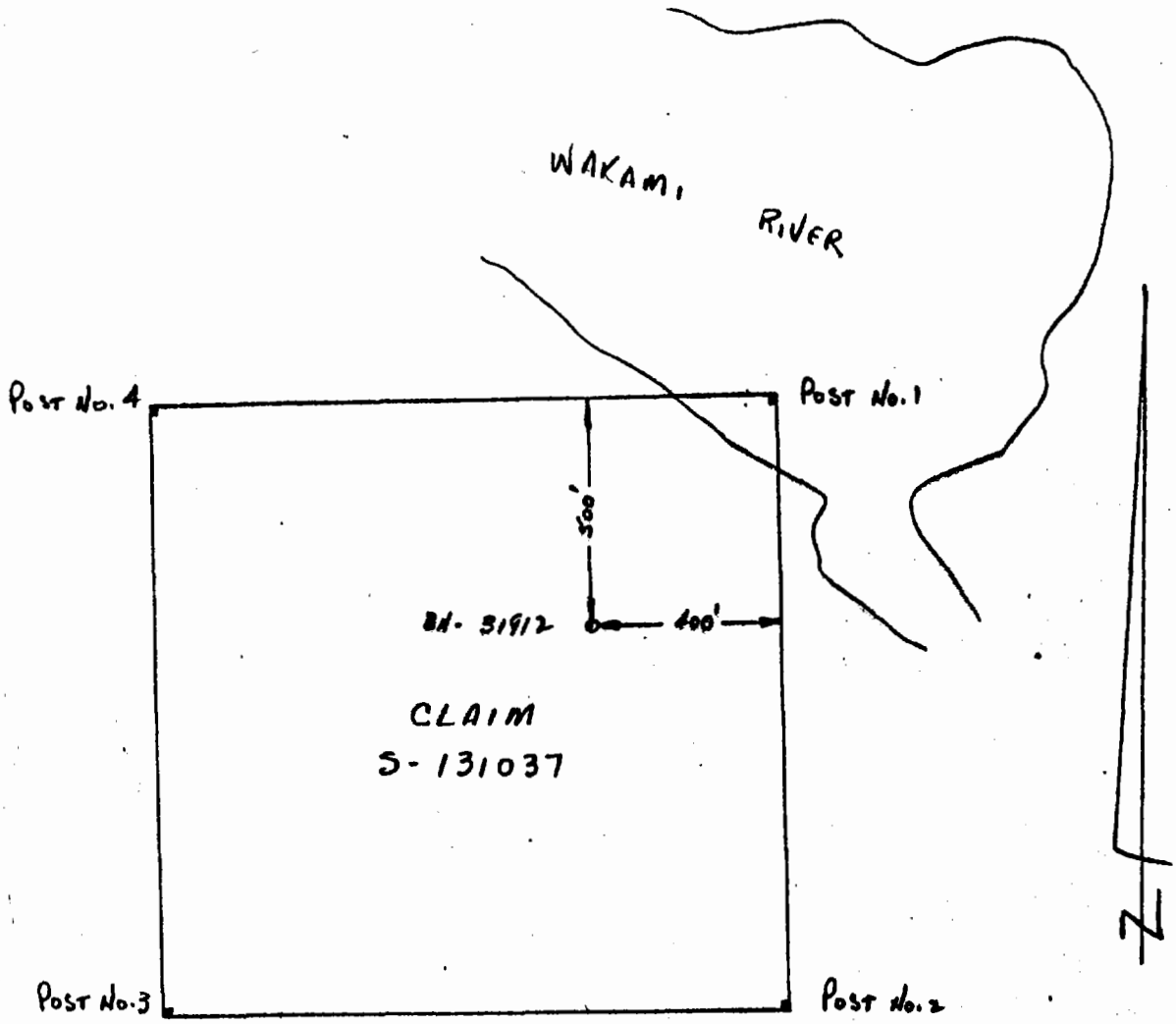
THE INTERNATIONAL NICKEL CO. OF CANADA, LIMITED

SAMPLING RECORD

PROPERTY (3IN AREA ANOMALY 5-02 CLAIM S/51037 SHEET NO. 3

HOLE NO. 31912 DEPTH 437.0 ANGLE -45°00' STRIKE N ELEVATION CO-ORDINATES E 12+00 S 1+50

DEPTH FEET	FORMATION	SAMPLE NO.	LENGTH FT.	ANALYSIS COPPER %	ANALYSIS NICKEL %	ANALYSIS CU. & NI. %	LENGTH FEET	PROGRESSIVE TOTALS FEET X PER CENT COPPER	PROGRESSIVE TOTALS FEET X PER CENT NICKEL	PROGRESSIVE TOTALS FEET X PER CENT CU. & NI.
0.0	Collar									
111.0	A casing, start of core, boulders									
122.0	E casing									
127.0	Greenstone, basalt									
127.7	Graphitic shear zone									
151.0	Greenstone									
152.9	Shear zone, graphite									
217.0	Greenstone									
235.5	Graphitic shear zone, greywacke									
308.9	Greenstone, massive									
314.5	Greenstone, sheared and altered									
437.0	Greenstone, massive									
437.0	Foot of hole									
	Date started July 1 1966			Acid Tests Corrected						
	Date completed July 12 1966			100'	48°30'					
	Drilled by Heath & Sherwood Drilling Limited			200'	44°45'					
	Logged by K.R. MACLEOD			300'	43°45'					
				400'	43°45'					
	Boy Response - Nil									
	No material left in hole									
	Size of Core - EXT									



LOCATION SKETCH
of DRILL HOLE: 31912
LOCATED ON CL. S-131037
GARNET TWP.
SUDBURY MINING DIVISION
SCALE: 1 INCH = 400 ft.

010

Diamond Drilling

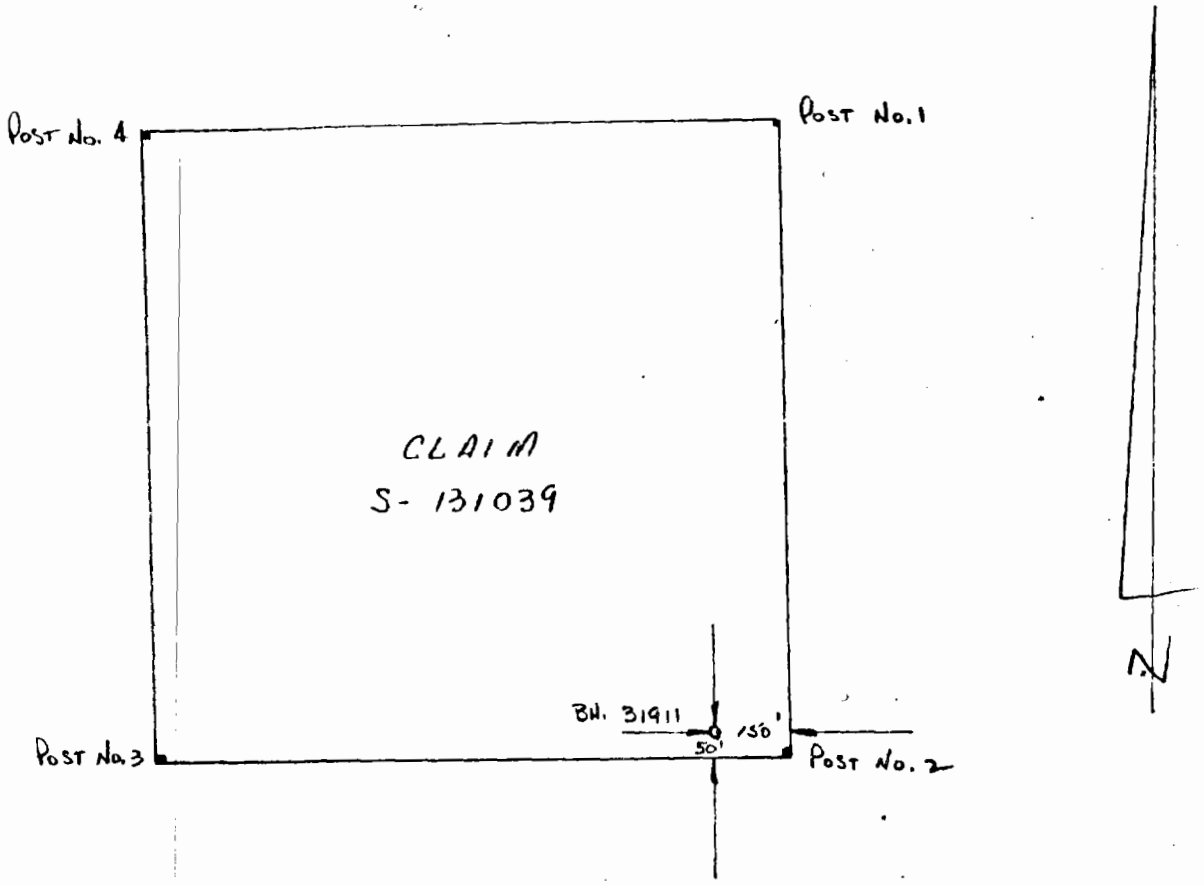
Township of GARNET

Report Nº 20

Work performed by: International Nickel Co. of Canada Ltd.

Claim Nº	Hole Nº	Footage	Date	Note
S 131039	31911	453'	June/66	

Notes:



LOCATION SKETCH
of DRILL HOLE: 31911
LOCATED ON CL. S- 131039
GARNET TWP.
SUDBURY MINING DIVISION
SCALE: 1 INCH = 400 ft.

FORM 255-B

THE INTERNATIONAL NICKEL CO. OF CANADA, LIMITED

DRILLING RECORD

PROPERTY ROBIN AREA, ANOMALY 5.03 — SHEET NO. 4

CLAIM S13039

HOLE NO. 31911 DEPTH 453.0 ANGLE 50°00' STRIKE North ELEVATION ____ CO-ORDINATES S 2+30 W 8+00

DEPTH FEET	FORMATION	SAMPLE NO.	LENGTH FT.	ANALYSIS COPPER %	ANALYSIS NICKEL %	ANALYSIS CU. & NI. %	LENGTH FEET	PROGRESSIVE TOTALS FEET X PER CENT COPPER	PROGRESSIVE TOTALS FEET X PER CENT NICKEL	PROGRESSIVE TOTALS FEET X PER CENT CU. & NI.
	Summary Log									
0.0	Collar									
25.0	Bx casing. Excavated clay & sand									
	Start of core									
171.3	Greenstone, intermediate flows									
173.6	Skarn, diopsidic									
327.4	Greenstone									
333.4	Graphitic shear zone									
453.0	Greenstone, intermediate flows									
453.0	Foot of hole									
	Date started June 23, 1966			Acid Tests Corrected						
	Date completed June 30, 1966			100	-51°00					
	Drilled by Heath & Sherwood Drilling			200	52°15					
	Logged by K.A. MacLeod			300	52°15					
				400	53°45					
	Material left in hole - Nil									
	Size of core EXT									
	γ-β response - Nil									

— PLAN OF —

GARNET TWP.

SUDBURY MINING DIVISION.

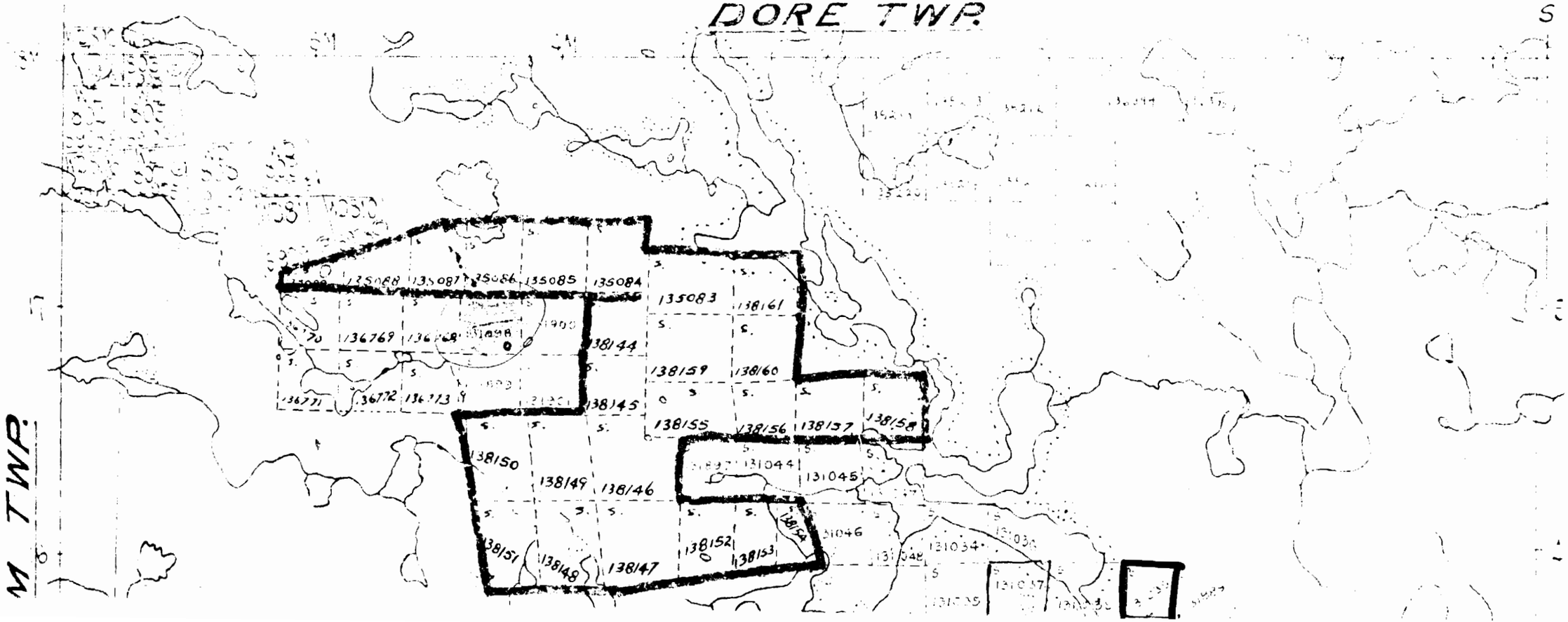
DISTRICT OF SUDBURY.

— Scale: 40 chains to an inch. —

DORE TWP.

NOTE

400' Surface Rights Reservation around all Lakes and Rivers.



DIAMOND DRILLING

Township: GARNET

Report No: 22

WORK PERFORMED FOR: D.G.INNES

RECORDED HOLDER: SAME AS ABOVE [x]

: OTHER [ ]

CLAIM NO.	HOLE NO.	FOOTAGE	DATE	NOTE
798056	G-85-1	645	Dec./85	(1)
798060	85-2	405	"	(1)
798066	85-3	465	"	(1)
"	85-4	415	Jan./86	(1)
"	85-5	205	"	(1)
"	85-5B	465	"	(1)
798061	85-6	300	"	(1)
797563	85-7	645	"	(1)
797564	85-8	350	"	(1)
"	85-9	350	Feb./86	(1)
797551	85-10	465	"	(1)
797504	85-11	350	"	(1)
797516	85-12	425	"	(1)
797509	85-13	145	"	(1)

14/5630'

NOTES: (1) #199/86

DIAMOND DRILLING PROGRAMME

GARNET TOWNSHIP PROPERTY

FOR

WESTERN PACIFIC ENERGY CORPORATION

REPORT ON THE DIAMOND DRILLING PROGRAMME

ON THE

GARNET TOWNSHIP PROPERTY

ONTARIO

FOR

WESTERN PACIFIC ENERGY CORPORATION

DECEMBER 1985 - FEBRUARY 1986

TABLE OF CONTENTS

1. INTRODUCTION

Western Pacific Energy Corp. holds a group of 133 unpatented mining claims in Garnet township, Porcupine Mining Division, Ontario that were staked for their potential gold mineralization. Between early December 1985 and mid-February 1986, a diamond drilling programme was carried out on the property to test a number of geophysical targets outlined by earlier work.

The following report outlines the work done and the results obtained in the drilling program which totaled 5,630 feet in 14 holes.

2. SUMMARY AND RECOMMENDATIONS

The drilling programme was directed towards the testing of geophysical targets along the general northwest trending zone of chemical sediments - iron formation (IF), metavolcanics and diorites. Two general areas of economic interest were indicated. Hole G-85-3 intersected anomalous base metal mineralization between 74 and 99 feet in a sulphide-bearing cherty IF horizon in the extreme northwestern part of the property.

Anomalous values in gold over narrow widths were obtained in 3 holes in the southeastern part of the claim group. One hole contains arsenopyrite and 930 ppb gold over 1 foot followed by 2 feet of ground core in a zone of silicification and carbonatization in felsic tuffs. The gold values of 290 and 380 ppb gold in the other 2 holes were associated with cherty iron formation.

The results to date indicate that follow-up work is warranted to further evaluate the property for base metals in the northwestern part and in the southeastern part for gold mineralization.

Due to the overburden cover, it is considered that further exploration in these areas could most effectively be carried out by a combination of overburden drilling and/or stripping depending on the depth of overburden followed by diamond drilling.

Respectfully submitted,

L.D.S. Winter
B.A.Sc., M.Sc., F.G.A.C.
May 30, 1986

3. PROPERTY, LOCATION AND ACCESS

The Garnet township property is composed of 133 unpatented, contiguous mining claims in Garnet township, Porcupine Mining Division, District of Sudbury, Ontario at latitude 47° - 43' N, longitude 82° - 30' W.

The claim group is approximately 140 km southwest of Timmins, 75 km east of Chapleau and 175 km north of Sudbury, Ontario.

Approximately 28 km east of Sultan a gravel forest access road leads north 15 km from the Eddy Forest Products road to the Wakami River in the central part of the property.

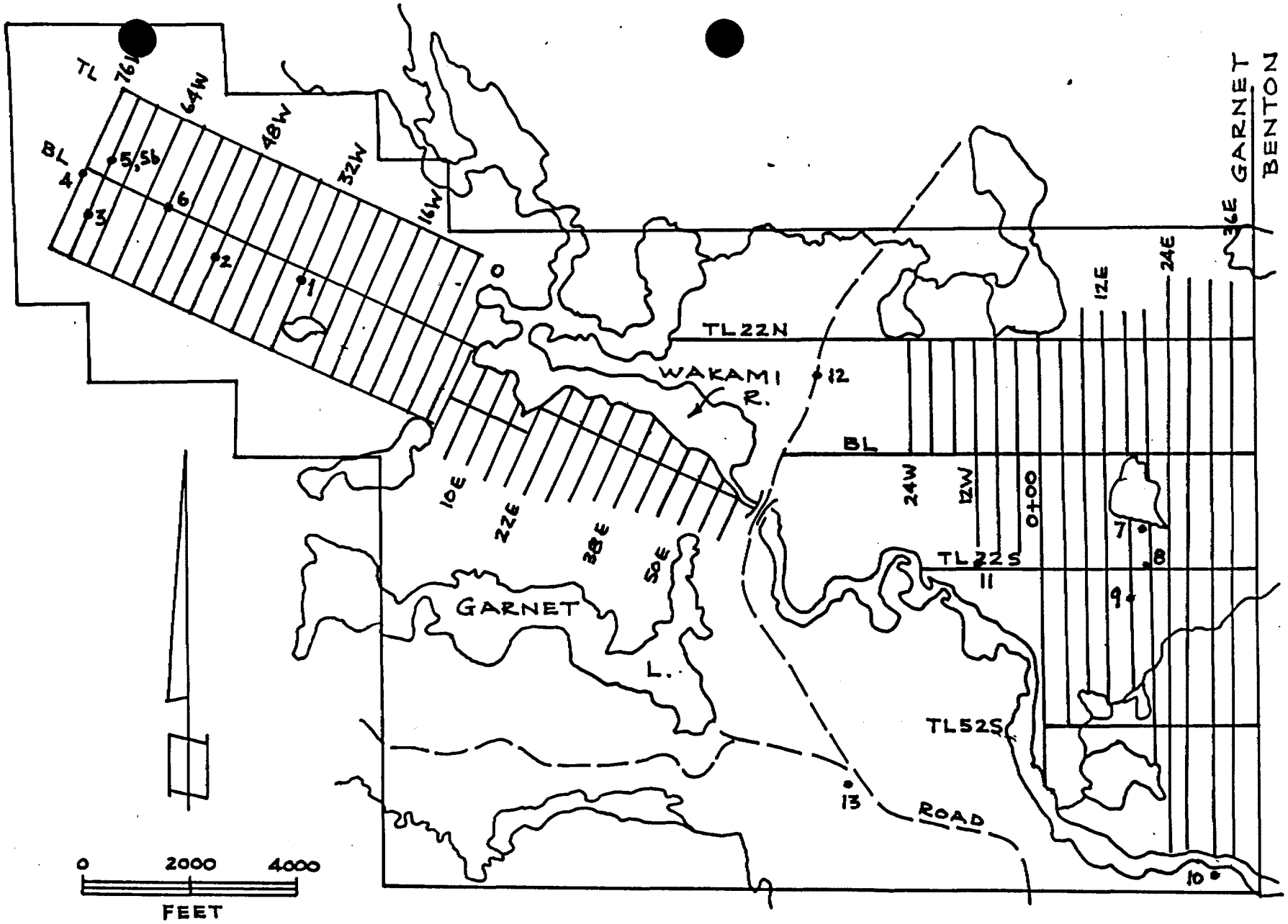
4. WORK DONE

Longyear Canada Inc. of North Bay, Ontario was under contract to Western Pacific Energy Corp. for the drilling which was done between December 1, 1985 and February 14, 1986. A total of 5,630 feet of BQ core in 14 holes was drilled during this period.

The holes were spotted on the previously cut grid and aligned according to the grid and/or compass bearings as appropriate. Acid dip tests were taken at 200-foot intervals in the holes and the core was logged and split for assaying as required.

The core has been deposited with the Core Storage Facility of the Ministry of Northern Development and Mines in Timmins, Ontario.

Drill logs and sections showing each hole and a plan showing the hole locations accompany the report. A summary of the drilling programme is shown in Table 1.



• *Diamond drill hole and number*

All holes drilled in 1985 programme and prefixed G-85

GARNET TOWNSHIP PROPERTY
DRILL HOLE LOCATIONS

May 1986

TABLE 1

GARNET TOWNSHIP PROPERTY DRILLING

HOLE	CO-ORDINATES	LENGTH (ft)	ANGLE	AZIMUTH	CLAIM
G-85-1	L32W : 3+00S	645	-45	N30 E	798056
G-85-2	L48W : 6+30S	405	-45	N30 E	798060
G-85-3	L72W : 8+00S	465	-45	N30 E	798066
G-85-4	L76W : 0+50S	415	-45	N30 E	798066
G-85-5	L72W : 3+00N	205	-45	N30 E	798066
G-85-5b	L72W : 2+95N	465	-45	N30 E	798066
G-85-6	L60W : 0+00	300	-45	North	798061
G-85-7	L19E : 17+00S	645	-45	N30 E	797563
G-85-8	L19+50E : 22+00S	350	-45	N30 E	797564
G-85-9	L16E : 27+00S	350	-45	N30 E	797564
G-85-10	L32E : 83+50S	465	-45	North	797551
G-85-11	L12W : 21+50S	350	-45	North	797504
G-85-12	L44W : 15+00N	425	-45	N30 E	797516
G-85-13	L35W : 69+00S	145	-45	North	797509

5. RESULTS

5.1 WESTERN GRID

The first 7 holes were drilled on the western grid in the northwestern part of the property testing VLF, self-potential (SP) and magnetometer anomalies.

G-85-1 This hole was drilled to test an east-west trending coincident VLF,SP and magnetic anomaly approximately 1400 feet long. Cherty iron formation (IF) plus diorite and minor metavolcanics were intersected. Up to 30% pyrite and pyrrhotite was intersected in cherty IF betwen 329 and 453.5 feet but no values of economic significance were obtained.

G-85-2: A 600-foot long VLF anomaly with coincident magnetics was tested with this hole. Cherty IF, diorite and fragmental metavolcanics were intersected. No values of economic significance were encountered.

G-85-3: This hole tested a short (600-foot) VLF anomaly with associated anomalous SP and magnetic values. Diorite, gabbro and IF horizons were intersected but there were no gold values of significance. Anomalous copper and zinc values were obtained from 74-79 feet (1325 ppm) and 94-99 (600 ppm) respectively in an IF horizon.

G-85-4: Moderately strong east-southeast striking SP and VLF anomalies along the southern edge of a narrow magnetic anomaly were drilled in this hole. 369 feet of jasper IF was intersected containing graphitic and sulphide-rich sections. There were no assays of economic significance from the hole.

G-85-5 and G-85-5B:

Hole G-85-5 was lost due to caving at 205 feet and G-85-5b was collared 5 feet south of G-85-5. The holes were testing short but strong coincident VLF and SP anomalies. Intercalated IF, fragmental metavolcanics and porphyries were intersected in the hole. Sections of the IF carried up to 5% sulphides but no values of economic significance were obtained.

G-85-6: This hole was drilled to intersect the western end of a 4500-foot long, east-west trending VLF and 1000-foot long weak SP anomaly. From 35 to 300 feet a diorite mineralized with minor chalcopyrite, pyrrhotite and pyrite was intersected. No values of commercial significance were obtained.

5.2 EASTERN GRID

Seven holdes were drilled on or adjacent to this grid testing VLF, SP and magnetic anomalies.

G-85-7: In this area an east-southeast striking, 1000-foot long VLF conductor was drilled. There is an additional 600 feet of conductor to the west that appears to be offset 200 feet to the south. The hole intersected felsic tuff from 34 to 645 feet cut by quartz and pyrite stringers. There is considerable carbonate alteration and from 376 to 384 feet, a carbonatized, silicified and fractured zone containing pyrite and arsenopyrite was intersected. Two feet of core in this zone was ground. One foot, from 379 to 380 feet, assayed 930 ppb gold.

G-85-8 This hole was drilled on the western end of an 1800-foot long east-southeast striking VLF anomaly coincident with a very steep magnetic gradient between low values to the north and high values to the south. From south to north, diorite, gabbro and pyroxenite, followed by mafic metavolcanics, were intersected. No values of economic interest were intersected.

G-85-9: A 2500-foot long east-southeast striking VLF conductor was tested by this hole. Gabbro-pyroxenite, cherty, sulphide-rich IF and fragmental metavolcanics were intersected but there were no values of commercial significance.

G-85-10 This hole tested an approximately east-west trending VLF anomaly coincident with elevated magnetics. Quartz porphyry, IF and diorite were intersected. The IF adjacent to the quartz porphyry shows elevated gold values between 110 and 290 ppb over 19 feet. This section of the IF is badly fractured and graphitic with pyrite.

G-85-11 A 600-foot long VLF anomaly trending southeast and coincident with high magnetics was drilled in this hole. Intercalated gabbro, IF and fragmental metavolcanics were intersected. A narrow IF horizon from 184 to 188 feet assayed 380 ppb gold.

G-85-12 This hole tested an east-southeast striking airborne VLF conductor that crosses the road north of the Wakami River. Tuff and cherty, pyritic IF were intersected. No values of economic interest were obtained.

G-85-13 This hole was attempting to intersect an airborne VLF conductor adjacent to an interpreted IF horizon just west of the road in the southern part of the property. The hole penetrated 140 feet of overburden and 5 feet of mafic metavolcanics at which point it was abandoned due to the casing being broken.

6. CONCLUSIONS

The property is extensively covered by overburden which becomes quite deep (100 feet ±) adjacent to the Wakami River in the southeastern part of the property. The 14 holes drilled in the present programme are considered to be of a preliminary nature, testing geophysical targets.

Anomalous base metal values were obtained in G-85-3 in the extreme northwestern part of the property suggesting this area should be further evaluated for stratabound copper-zinc mineralization.

In the southeastern part of the claim group three holes, G-85-7, G-85-10 and G-85-11 showed enrichment in gold associated with alteration. In particular, G-85-7 gave the best value of 930 ppb gold over 1 foot in a sheared, silicified and carbonatized felsic tuff containing pyrite and arsenopyrite. At this point, 2 feet of core was ground also. This hole

was testing a conductor 1600 feet long that appears to be offset by cross-faulting.

It is considered that the northwestern and southeastern parts of the property warrant further work to assess the results obtained to date.

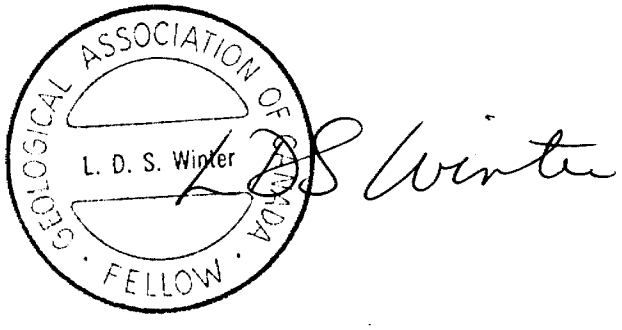
L.D.S. Winter
B.A.Sc., M.Sc., F.G.A.C.
May 30, 1986

CERTIFICATE OF QUALIFICATION

I, Lionel Donald Stewart Winter do hereby certify:

1. that I am a geologist and reside at 1849 Oriole Drive, Sudbury, Ontario, P3E 2W5,
2. that I am a Fellow of the Geological Association of Canada,
3. that I graduated from the University of Toronto in Mining Engineering in 1957 with a Bachelor of Applied Science and from McGill University, Montreal in 1961 with a Master of Science (Applied) in Geology,
4. that I have practised my profession continuously for 25 years,
5. that my report on the Diamond Drilling Program on the Garnet Township property is based on my knowledge of the programme as it was being carried out and on a review of drill logs and sections;

L.D.S. Winter
B.A. Sc., M.Sc., F.G.A.C.
May 30, 1986



DIAMOND DRILL LOGS

GARNET PROPERTY

for

WESTERN PACIFIC ENERGY CORP.

DIAMOND DRILL LOG

PROJECT:	Garnet Township	COST CODE NO.:	1414
COMPANY:	Western Pacific Energy Corporation		
HOLE NO.	G-85-3	LOCATION:	L72 + 00W 8 + 00S
AZIMUTH:	N 30 E	DIP AT COLLAR:	45
LOGGED BY:	Phil Brown	DATE::	December 17, 1985
DRILLED BY:	Longyear Canada Incorporated		

LOG

0 - 15 CASING

15 - 55 DIORITE

Med grained med green carb altered. Many qtz cb stringers, 45 to c/a mainly but at all angles. Cubic py tarnishing brassy yellow especially 23-28 minor po present. Py 1/2 to 1%but heavier 35-40.

55 - 60 BANDED IF

Black banded 5-10% py in places.

60 - 69 TUFF?

Fine grained pale green with dark green chlorite developed on factures - may be narrow flow, chilled.

69 - 171 BANDED IF

Magnetite chert bands, exhalative type deposition py beds, chemical chert, graphite on some bedding planes. Banding 80 to 85 to c/a. Py 2% to 60%. Some Po, cpy ZnS. Small qtz cb veins at all angles cutting brecciated chert bands.
876-78 heavy sulphides (75%).
94 Zns for 3/4".
85-87, 94-95, 107-108 green chert. Alternate light and dark bands give rock a Zebra look.
109-122 heavy py.
102 magnetite IF with little py
132-133 some jasper
(137.5-142.5 py present)

171 - 323 DIORITE

Medium green, medium grained, minor py, carb. veining.

323 - 393 GABBRO

medium to coarse grained and massive. Po and py scarce.

331-332 three qtz veins < 1/4" 45 to C/A minor py.
338-339 1/2" Qtz vein 45 to C/A with carb alteration.
346-347 1/2" QV with minor py
355-356 2" QV with carbonate & minor py, po.
377-378 1" QV + carb 60 to C/A
392-393 Epidote + qtz shearing at contact. Some minor slips & shears.

393 - 465 DIORITE - FINE GRAINED

407-420 qtz carb veining & shearing 45 to 60 to C/A, minor py & po.
455 - minor hematite staining with carbonate.

465 END OF HOLE.

HOLE NO. G-85-3

CORE SAMPLES

SAMPLE NUMBER	FROM	TO	SAMPLE LENGTH	ASSAY - ppm Au	Ag	Cu	Zn
G86959	22.5	27.5		<0.01			
G86960	35	40		<0.01			
G86961	55	60		<0.01			
G86962	65	67		<0.01			
G86963	69	74		<0.01			
G86964	74	79		0.04	1.8	1325.0	
G86965	79	84		<0.01			
G86966	84	89		<0.01			
G86967	89	94		<0.01			32.0
G86968	94	99		<0.01			600.0
G86969	99	104		<0.01			
G86970	104	109		<0.01			
G86971	109	114		0.01			
G86972	114	119		<0.01			
G86973	119	122		<0.01			
G86974	137.5	142.5		<0.01			

DIAMOND DRILL LOG

PROJECT: Garnet — COST CODE NO.: 1414

COMPANY: Western Pacific Energy Corp.

HOLE NO: G-85-12 — LOCATION: 44 W 15 N

AZIMUTH: N 30 E — DIP AT COLLAR: -45

LOGGED BY: Phil Brown — DATE: February 11, 1986

DRILLED BY: Longyear Canada Ltd.

LOG

0 - 118 OVERBURDEN

113 - 294 GREY TUFF

113 - grey tuff - graphitic in places, banding 70 to C/A

6" overburden at 141

151-152 QV down core with heavy sulphides (py) in well rock
155-165 QVs + much py and 5' ground core
165-167 Q cb veins pink carb no py
169-170 QV + carb no py
181-196 QVs some py
201-2 py bands
209-211 some chert bands some py
212-213 py bands
221-3 py gph. banding
226-7 py gp. banding
banded tuff with 30% qtz cb veining + minor py banding 60-65 to C/A @ 280

294 - 329 IRON FORMATION

294-301 banded jasper IF magnetite minor py cpy
301-313 dk green fine gr. chlorite + minor jasper bands qtz (chert bands)

313 - 329 MAGNETITE BANDS

magnetite + brick red qtz and carb in veining minor py cpy

329 - 425 TUFF

grey to greenish grey with occas. uwith 1/4" jasper bands - tuff. Banding 80 to C/A qtz veining as stringers and qtz cb at all angles about every 3 to 4 inches very little pyrite.

322-327 minor cpy py

425 END OF HOLE

HOLE. NO. G-85-12

CORE SAMPLES

SAMPLE NUMBER	FROM	TO	SAMPLE LENGTH	ASSAY - ppm Au	Ag
4163	151	152		<0.01	
4164	153.5	154		<0.01	
4165	155	156		<0.01	
4166	157.5	160		<0.01	
4167	184	186		<0.01	
4168	201	202		<0.01	
4169	208	211		<0.01	
4170	212	213		<0.01	
4171	213.5	215		<0.01	
4172	216	217		<0.01	
4173	218	220		<0.01	
4174	221	222		0.07	
4175	223	225		<0.01	
4176	226	228		0.02	
4177	237	240		<0.01	
4178	246	248		<0.01	
4179	275	280		<0.01	
4180	322	327		<0.01	

DIAMOND DRILL LOG

PROJECT: Garnet

COST CODE NO.: 1414

COMPANY: Western Pacific Energy Corp.

HOLE NO: G-85-13

LOCATION: 69 S 35 W

AZIMUTH: Due N

DIP AT COLLAR: 45

LOGGED BY: Phil Brown

DATE: February 14, 1986

DRILLED BY: Longyear Canada Inc.

LOG

0 - 140	OVERBURDEN
140 - 145	Mafic vol + py qtz veining badly sheared and altered
145	Hole abandoned.

Casing broken 50'

HOLE NO. G-85-13

CORE SAMPLES

SAMPLE NUMBER	FROM	TO	SAMPLE LENGTH	ASSAY - ppm Au	Ag
4181	140	145		<0.01	

DIAMOND DRILL LOG

PROJECT:	Garnet	COST CODE NO.:	1414
COMPANY:	Western Pacific Energy Corp.		
HOLE NO:	G-85-8	LOCATION:	22 + 00S, 19+50E
AZIMUTH:	N 30 E	DIP AT COLLAR:	-51
LOGGED BY:	Phil Brown	DATE:	January 31, 1986
DRILLED BY:	Longyear Canada Inc.		

LOG

0 - 8 CASING

8 - 20 DIORITE
dark green with occasional QV's 30 and 45 to C/A at 11 1/2" QV
30 to C/A + py minor cpy

20 - 179 GABBRO
paler green carbonate altered + py

37' 2" QV 70 to C/A + py cpy
47-48 rusty fracture
49.5-50.5 qtz rich + py cubes
52.5 1/2" QV 300 to C/A + py
67-70 grey qtz rich + rusty (+ py
84-85 two 1/4" QVS @ 30 and 60 to C/A - no py
100-110 occasional py clusters and cubes
119-120 Qtz rich sections
174-175 sheared

179 - 310 PYROXENITE
179-198 grades into pyroxenite - magnetic coarse grained
182-190 py, po blobs - some cpy
198-210 grey Qtz porph dyke - very little fespar, minor fine py
210 - pyroxenite + (bronzite) brownish pyroxene
minor sulphides - e.g. @ 280 - silver metallic
py, cpy, py, all seen. Fine grained

310 - 350 MAFIC VOLCANIC
grades to serpentinized peridotite?

310 - talc carb slips
318-22 shallow angle shear

350 END OF HOLE

HOLE NO. G-85-8

CORE SAMPLES

SAMPLE NUMBER	FROM	TO	SAMPLE LENGTH	ASSAY - ppm Au	Ag
4095	14	15		<0.01	
4096	36.5	37.5		<0.01	
4097	49.5	52		<0.01	
4098	67	70		<0.01	
4101	185	188		<0.01	

DIAMOND DRILL LOG

PROJECT: Garnet — COST CODE NO.: 1414

COMPANY: Western Pacific Energy Corp.

HOLE NO: G-85-9 — LOCATION: L16E - 27S

AZIMUTH: N 30 E — DIP AT COLLAR: -51

LOGGED BY: Phil Brown — DATE: February 2, 1986

DRILLED BY: Longyear Canada Inc.

LOG

0 - 9 OVERBURDEN

9 - 133 GABBRO/PYROXENITE
brown bronzitite crystals, med grain to coarse magnetic minor py
gabbro at 60 - magnetic med. gr. at 93 - 1" QV 30 to C/A becoming fine gr. 100'

133 - 174 BANDED IF
strongly magnetic blackbanding 70 to C/A contact sharp - 140 some green serpentine

138 dk green + 5% + py 50 to C/A banding

cherty + heavy py banding 70 to C/A some graphite

149-151 20% py
152-154 brecciated chert + 10% py + cpy
155-160 chert + 5% py
160-174 black mag. IF + py + po - banding

174 - 245.5 FELSIC TUFF
174-245.5 heavy py grey - qtz with qtz eyes - py to 100% in small stretches but generally about 20%. Some chert - py - cpy - ZnS

Some gpl @ 180

195-200 heavy py 50% + cpy + ZnS

245.5-285 INTERMEDIATE TUFF
greyish brown more carbonate

285 - 350 GABBRO
fine - becoming coarse gb

327 porphyte qtz seams
325.5-326.5 Q carb vein + chlorite
329-30 QV carb bein + chlorite
337 - 3" vein 40 to C/A broken

350 END OF HOLE

HOLE NO. G-85-9

CORE SAMPLES

SAMPLE NUMBER	FROM	TO	SAMPLE LENGTH	ASSAY - ppm Au	Ag
4102	138	141		<0.01	
4103	142	146		<0.01	
4104	147	149		<0.01	
4105	150	153		<0.01	
4106	154	157		<0.01	
4107	158	160		<0.01	
4108	161	165		<0.01	
4109	166	169		<0.01	
4110	170	173.5		<0.01	
4111	174	175		0.02	0.4
4112	176	179		0.07	0.2
4113	180	184		0.02	0.3
4114	185	189		<0.01	0.2
4115	190	194		<0.01	0.1
4116	195	199		0.02	0.6
4117	200	204		<0.01	<0.1
4118	205	209		<0.01	<0.1
4119	210	214		<0.01	
4120	215	219		<0.01	
4121	220	221		<0.01	
4122	222.5	226		<0.01	

DIAMOND DRILL LOG

PROJECT: Garnet COST CODE NO.: 1414

COMPANY: Western Pacific Energy Corp.

HOLE NO. G-85-1

LOCATION: L32 + 00 W
3 + 00 S

AZIMUTH: N 30 E

DIP AT COLLAR: -45 LOGGED BY: Phil Brown

DRILLED BY: Longyear Canada Incorporated DATE: December 8, 1985

LOG

0 - 10 CASING

10 - 35.3 BANDED IRON FORMATION

Red and whitish chert bands alternating with black magnetite bands. Generally black in colour. Very minor brecciation and qtz veining. Banding generally 80 to C/A but varies from 70 to 80 to C/A. Some folding seen with the brecciation. Pyrite content low <2% as cubes and some in clusters and seams. The latter has pyrrhotite plus minor chalcopyrite.

19 - 35.3: Many jasper bands.

At 25.5 1 1/2" Qtz vein 15 to C/A with chlorite and white py on contacts.

35.3 - 69.5 DIORITE

Massive medium green volcanics, medium grained stress fractures 25 to C/A infilled with chlorite. Minor pyrite.

61 - 63: Qtz veins + pyrite + chlorite 45 to C/A

69.5 - 90.0 BANDED IF

Contacts and banding 80 to C/A
Pyrite in clusters of cubes or separate cubes also strataform as seams, same crosscutting seams, also pyrrhotite. Some sphalerite.
At 85' 1/4" Q.V. + Chlorite 45 to C/A
At 85.5' 1/4" Q.V. 30 to C/A
At 87' 1/4" Q.V. 30 to C/A
Pyrrhotite becoming dominant > pyrite

90 - 103 TUFF?

Grey-green conglomeratic (Tuff?)

103 - 104 BANDED IF

Pyrrhotite no pyrite <1%

104 - 329 DIORITE

Massive fine grained med-green scattered minor Py, Po
195 - 216 Qtz carb veining at all angles - curved - possibly flow top.
326 - 327 purplish Qtz vein 45 to C/A

329 - 453.5 CHEMICAL CHERT GRADING TO I.F.

Po dominant sulphide with minor Cpy, some Zns.
Little folding minor fractures of chert bands.
Banding 75 to C/A
323.5 - 331: strongly magnetic
350 - 357: strongly magnetic with much Po in seams and as blobs 1 to 3%.
370 - 372 strongly magnetic + Po +Py
385 - 390 magnetite I.F. banding 75 to C/A; enough Po for VLF conductor...387 - 387.5 30% Po plus Py.
405 - 413 magnetic I.F. Heavy Po enough for a V.L.F. conductor.
414 - 1/2" Py seam + Zns
415 - finely banded chert
416 - 417 fractured and unfilled with Py + Zns
420 banding 55 to C/A
420 - 437: heavy Po and Py at seams and agglomerations.
421 - 453 strongly magnetic.

453.5 - 645 DIORITE

Fine grained minor Py
467 - 467.6 pinkish Qtz vein 50 to C/A

645 END OF HOLE

HOLE NO. G-85-1

CORE SAMPLES

SAMPLE NUMBER	FROM	TO	SAMPLE LENGTH	ASSAY - ppm Au	Ag
3201	10	15		<0.01	
3202	15	20		<0.01	
3203	20	23		<0.01	
3204	23	24		<0.01	
3205	24	29		<0.01	
3206	29	34		<0.01	
3207	34	35.5		<0.01	
3208	61	63		0.02	
3209	69.5	74.5		<0.01	
3210	74.5	77.5		<0.01	
3211	77.5	78.5		<0.01	
3212	78.5	81.5		<0.01	
3213	81.5	86		<0.01	
3214	86	90		<0.01	
3215	195	200		0.02	
3216	200	205		<0.01	
3217	205	210		0.01	
3218	326	327		<0.01	
3219	335	338		<0.01	
3220	338	341		<0.01	
3221	347	352		<0.01	
3222	352	357		0.01	
3223	370	375		<0.01	
3224	385	390		<0.01	
3225	405	410		<0.01	
3226	410	415		<0.01	
3227	415	420		<0.01	

HOLE NO. G-85-1

CORE SAMPLES

SAMPLE NUMBER	FROM	TO	SAMPLE LENGTH	ASSAY - ppm Au	Ag
3228	420	425		<0.01	
3229	425	430		<0.01	
3230	430	435		<0.01	
3231	435	440		<0.01	
3232	440	445		<0.01	
3233	445	450		<0.01	
3234	450	453		<0.01	
3235	466.5	467.5		<0.01	
3236	588	593		<0.01	

DIAMOND DRILL LOG

PROJECT: Garnet — COST CODE NO.: 1414

COMPANY; Western Pacific Energy Corp.

HOLE NO. G-85-2 — LOCATION: L48 + 00 W
6 + 30 S

AZIMUTH: N 30 ° E — DIP AT COLLAR: -45

LOGGED BY: Phil Brown

DRILLED BY: Longyear Canada Incorporated — DATE: December 12, 1985

LOG

0 - 10 CASING

10 - 55.7 DIORITE
Med green,med grained flow some carb veining + Po and Py. At 50' small quartz vein + Zns several other stringers with this mineralization.

55.7 - 81.5 BANDED IRON FORMATION
Black banded 80-85 to C.A. Sulphide mainly Po but some Py in bands to 1/4". Chert bands and jasper at 60'. Py + Po approximately 2-5% with the Py as cubes. At 58' 1/4" quartz carb vein 30 to C.A. + chlorite. Py developed parallel to vein. Minor brecciation.

81.5 - 85.0 DIORITE
Fine grained, Po, Py.

85.0 - 86.3 BANDED IRON FORMATION

86.3 - 88.5 CHERT BRECCIA
No sulphides.

88.8 - 306.5 DIORITE
Fine grained becoming medium grained and medium green color. Fine Po, Py <1/2%.
138.5 - 139.0: Quart vein 35 to C.A. + Po, minor Zns + chlorite.
143.0 - 151.0: Fine grained + quartz carb veining.

148.0 - 149.5: Quartz carb vein minor Zns, PbS, Cpy.
185.0 - 186.0: Quartz carb vein + smokey quartz.
190.0 : Quartz vein + 10% Py.
196.0 - 200.0: Quartz carb vein down core, minor Cpy Zns Po. at 219', slips 45 to C.A. + Po, Py.
255.0 Quartz carb veining Py, Po and Zns
269.0 - 270.0: 1/2" quartz carb vein parallel to core minor Cpy, Zns, Py, Po.
292.0 - 293.0: 2" quartz vein 20 to C.A.
297.0 - 306.5: Quartz carb veining + Py, Po.

306.5- 344 BANDED IRON FORMATION

Cherty iron formation plus tuff bands plus magnetite seams. Py, Po minor Cpy present 50° to C.A. seams. Sulphides 5% to 20% in places.
Bedding becomes 75 to C.A., brecciation, small slips present. Quartz carb veining plus remobilised and recrystallised cubic Py.
328.0 - 333.0: Py, Po almost massive.
336.0 - 337.0: Chert band + Py, Po.
342.5 - 343.5: Heavy Py seams.

344.0-359.5 TUFF

Medium green + Py 55 to 60 to C.A. bedding.

359.5- 363 IRON FORMATION

Chert magnetite banded iron formation.

363. - 369 TUFF

As above + Py.

369 - 395.5 BANDED IRON FORMATION

Chert magnetite iron formation some Po mainly Py in cubes to 1/4". Banding 65 to C.A. at 395'.
391.0 - 393.0: Fine grain tuff?

395.5 - 405 DIORITE

Medium grained, medium green, minor Py, Po.

405 END OF HOLE.

HOLE NO. G-85-2 CORE SAMPLES

SAMPLE NUMBER	FROM	TO	SAMPLE LENGTH	ASSAY - ppm Au	Ag
3237	56	60		<0.01	
3238	60	65		<0.01	
3239	65	70		<0.01	
3240	70	75		<0.01	
3241	75	80		<0.01	
3242	80	82		<0.01	
3243	148	150		<0.01	0.4
3244	185	186		<0.01	
3245	196	200		<0.01	
3246	297.5	298.5		<0.01	
3247	302.5	307		<0.01	
3248	307	312		0.02	
3249	312	317		<0.01	
3250	317	319.5		<0.01	
3251	319.5	324.5		<0.01	
3252	324.5	328		<0.01	
3253	328	333		<0.01	
3254	333	338		<0.01	
3255	338	341		<0.01	
3256	341	344		<0.01	
3257	344	349		<0.01	
3258	349	354		<0.01	
3259	354	360		<0.01	
3260	360	363.5		<0.01	

HOLE NO. G-85-2

CORE SAMPLES

SAMPLE NUMBER	FROM	TO	SAMPLE LENGTH	ASSAY - ppm Au	Ag
G86951	363.5	368.5		<0.01	
G86952	368.5	373		<0.01	
G86953	373	378		<0.01	
G86954	378	383		<0.01	
G86955	383	388		<0.01	
G86956	388	390.5		<0.01	0.3
G86957	390.5	393		<0.01	
G86958	393	395.5		<0.01	

DIAMOND DRILL LOG

PROJECT: Garnet — COST CODE NO.: 1414

COMPANY: Western Pacific Energy Corp.

HOLE NO: G-85-4 — LOCATION: 0 + 50S L76 + 00 W

AZIMUTH: N 30 E — DIP AT COLLAR: 45

LOGGED BY: Phil Brown — DATE: January 13, 1986

DRILLED BY: Longyear Canada Inc.

LOG

0 - 15 OVERBURDEN

15 - 35 badly broken I.F. oxidized and weakened to 46'.

CASING TO 45'

46 - JASPER I.F.
banding generally 65 to C/A at 75'. Becoming 75 at 90'. Contorted bedding in places - brecciated in places. Red jasper alternates with 1/2" white chert bands and also zones of grey and black IF + py + carb. Red jasper IF has little sulphide, also graphitic - e.g. 591

grey zones 53-56
62-63
65-67 Grey begins to predominate 65' onwards
75-85
87-96 (67-70 magnetic - 80% magnetite 20% jasper)

py banding - 54-56
73-73.5
78-86 3" massive dirty py 78-79
87-91
94.5-95.5

95.5 - 96.5 Red, 100-101 Red - also magnetic

Brecciated chem chert sequence magnetic sections rare graphitic zones + py

Contorted bedding but generally 60 at 100' to C/A
60 at 130' to C/A
50 at 140' to C/A

Fine py all through

109-110 graphitic + 15% py

slips + qtz cb 90 to bedding + py + chlorite

118-119 graphitic + py
127-128 graphitic + py
131-137.5 graphitic + py bedding 50' to C/A
(136-137 50% py) NB Minor c py)
139-140 50% py

140 - Jasper IF - 148

146-147 50% py
149-158 graphitic; bedding 40 to C/A (where graphitic) and short sections heavy py

py 5% to 10% and short sections heavy py of which much is remobilized and recrystalized cubes in veins, 90 to bedding.

173 - 198 magnetic

Red and black alternation, much brecciation and py, also chlorite

165-175 heavy py some almost solid py sections

190 bedding, 55 to C/A
194-5 py
196-7 py graphitic
199-202 py
202 - 205 magnetic red chert and magnetite bands
215, 40 to C/A
217, 35 to C/A
219-220 graphitic, broken
220-225 magnetic red chert + qtz + cpy in slips
234, 30 to C/A
234 graphitic, pyritic chert bands
235-240 jasper red + magnetite
247-248 jasper red + magnetite
240-246 heavy py, cubes (recrystalized), vuggy qtz veining
240 - 35 to C/A
247 - 248 Red jasper bands with magnetite bands
253-4 graphitic + py
256-264 red/magnetic, little py
325 - 30 to C/A
321.5 1" QV 70 to C/A, some carb (creamy) minor chlorite
326-327.5 small dk green fine gr diab dike or tuff band. Continues alternating chert graphitic, etc., fewer sulphides

350 - mainly grey graphitic
365 - heavy graphitic + py bands 30 to C/A

Tuff band mainly 70 to C/A
375-391 very heavy py some cpy

banding 30, 45, 70 to C/A

after 391 sulphides, less graphite, more chert

Jasper again at 410 - 35 to C/A and 70 to C/A

415 END OF HOLE

HOLE NO. G-85-4

CORE SAMPLES

SAMPLE NUMBER	FROM	TO	SAMPLE LENGTH	ASSAY - ppm Au	Ag
4001	46.5	47.5		<0.01	
4002	52.5	57		<0.01	
4003	57	58.5		<0.01	
4004	60.5	61.5		<0.01	
4005	65	67		<0.01	
4006	73	74		<0.01	
4007	74	75.5		<0.01	
4008	75.5	78.5		<0.01	
4009	78.5	79.5		<0.01	
4010	79.5	81.5		<0.01	
4011	81.5	85		<0.01	
4012	85	87		<0.01	
4013	87	88		<0.01	
4014	88	91		<0.01	
4015	91	96		<0.01	
4016	98	100.5		0.02	
4017	118	120		0.03	
4018	131	133		0.02	
4019	133	136		0.01	
4020	136	137.5		0.02	
4021	137.5	139		0.01	
4022	139.5	140		0.02	
4023	144.5	150		0.01	
4024	150	155		<0.01	
4025	155	156.5		<0.01	
4026	164	169		<0.01	

CORE SAMPLES

SAMPLE NUMBER	FROM	TO	SAMPLE LENGTH	ASSAY - ppm Au	Ag
4027	169	173		<0.01	
4028	173	175		0.01	
4029	175	180		<0.01	
4030	180	185		<0.01	
4031	185	190		<0.01	
4032	190	195		<0.01	
4033	195	200		<0.01	
4034	200	202		<0.01	
4035	211.5	214		<0.01	
4036	220	225		<0.01	
4037	240	244.5		<0.01	
4038	244.5	246.5		<0.01	
4039	255	257.5		<0.01	
4040	264	265		<0.01	
4041	270	273		<0.01	
4042	370	375		<0.01	
4043	375	380		0.02	
4044	380	385		0.01	
4045	385	390		<0.01	
4046	390	395		0.02	
4047	395	400		0.01	

DIAMOND DRILL LOG

PROJECT: Garnet — COST CODE NO.: 1414

COMPANY: Western Pacific Energy Corp.

HOLE NO: G-85-5 — LOCATION: 72 + 00W 3 + 00 N

AZIMUTH: N 30 E — DIP AT COLLAR: 45

LOGGED BY: Phil Brown — DATE: January 19, 1986

DRILLED BY: Longyear Canada Inc.

LOG

0 - 205 Hole lost cave?? 2' past gouge. Rock either side fully competent.

0 - 10 CASING

10 - 90 MEDIUM GREEN DARK GREEN GABBRO
minor qtz cb stringers mainly 40-60 C/A, minor py

24-25.5 fine gr + more py
46-47 pinkish or orange qtz ch vein at 47 blue galine spot becoming finer grained 60'
70-71 rusty fracture 45 to C/A
77-79 large patches of py + qtz cb stringers (86-90 rusty vuggy)

90 - 205 IRON FORMATION
IF banded strongly magnetic intercalated chert/magnetic banding mainly 50 to C/A but up to 80. Chert white to grey and some green serpentine with minor carbonate; chert brecciated with fine qtz stringers py low < 1% some banding.

105 - py content 5% to 10%
113 white to cream carbonate present (minor)
129-130 tuff 60 to C/A
130-136 white chert carb (creamy) sections + py
135.5-149 very heavy py and 151-153
136-140 > 50% of rock, banding
50-60 to C/A, very minor cpy

143-4 tuff band
150-151 broken fault?
155.5-156 tuff band
156 Jasper bands - 165
177 - much jasper IF
165-176 heavy py 3-5% banding 65-70 to C/A
186-185.5 tuff
banding 60 to C/A 182 at 195 dk green band + lower py cubes 1/4
203 - mud seem 6"

205 END OF HOLE

NO CORE SAMPLES

DIAMOND DRILL LOG

PROJECT: Garnet — COST CODE NO.: 1414

COMPANY: Western Pacific Energy Corp.

HOLE NO: G-85-5b — LOCATION: 72 + 00 W 3 + 00 N

AZIMUTH: N 30 E — DIP AT COLLAR: 45, 40 at 290

LOGGED BY: Phil Brown — DATE: January 21, 1986

DRILLED BY: Longyear Canada Inc.

LOG

HOLE NO. G-85-5b

0 - 7 CASING (4 s OF #5) 172 w, 3 n

0 - 90.5 GABBRO

90.5 - 275 BANDED IF

strongly magnetic, banding mainly 60-70 to C/A

90.5-93 brecciated contact area also rusty.

96-97 few py bands, cherty bands greenish, minor carb, py 2% but up to 5%, e.g. 107-114. Strongly magnetic. Banding becoming 50 to C/A some slump folding 30 to C/A

126.5-127.5 - qtz + carb
127.5-129 Tuff
129-135.5 carb zone (creamy carb + py + speck cpy)

Banding 55-60 to C/A @ 130'

? VLF

135.5-147 40% py sedimentary exhalative + chert + tuff.
143-151 carb altn + py 5% +
55 to C/A at 155'

after 160 less py except 166-171 - minor carb + py strongly magnetic

160-166 Jasper
176 - 6" sludge (hole)
189-190 some carb + chert + py

Bright red jasper gets darker red from 210' on.

225-228 slump bedded py bands + mudstone mixed with magnetite bands
237.5-244 pyritic mudstone
244-275 intercalated tuff / chem seds / chert, etc.

* Sample

265-7 carb veining + cpy - flow top? vuggy

275 - 323 CRYSTAL TUFF

pale green and brownish hue, pyrite in places

283-6 pale colour carb alteration
298-299 4" heavy py
300-312 Jasperoid IF mixed with tuffs (magnetic)
312 - much creamy carb crystal
318-323 - magnetic IF

323 - 340 FELSP PORPHYRY
* no py 15' vuggy flow top grey greenish tint

340 - 368 INTERMIXED TUFF
intermixed tuff, chem chert (soft green) and porphyry

368 - 409 FELSP PORP
1/4 to 1/2 felsp white

393-4 vuggy and rusty
396-9 vuggy and rusty

409 - 465 IF
rusty contact chem chert IF some yellow creamy carb sections 5% py
415-16
419-23 heavy py (30%)
430-446 red sections jasper
446-54 graphitic and pyritic sections
456-60 red jasper sections
462-4 small qtz veins 90 to bedding + chlorite and carb no sulphides

465 END OF HOLE

TEST 400' 40.

HOLE NO. G-85-5b CORE SAMPLES

SAMPLE NUMBER	FROM	TO	SAMPLE LENGTH	ASSAY - ppm Au	Ag
4048	90.5	95	4.5	.01	
4049	95	100	5	<.01	
4050	100	103	3	<.01	
4051	103	106.5	3.5	<.01	
4052	106.5	110.5	4.0	<.01	
4053	110.5	115.0	5	<.01	
4054	115	120	5	<.01	
4055	120	123	3	<.01	
4056	123	127	4	<.01	
4057	127	129	2	<.01	
4058	129	132	3	<.01	
4059	132	135.5	3.5	<.01	
4060	135.5	140	4.5	.02	
4061	140	142.5	2.5	<.01	
4062	142.5	145	2.5	<.01	
4063	145	148	3.0	<.01	
4064	148	152	5	<.01	
4065	189	192	3	<.01	
4066	410	415	5	.01	
4067	415	418	3	.02	
4068	418	423	5	.19	
4069	423	426	3	<.01	
4070	426	431	5	.01	
4071	431	436	5	.01	
4072	436	441	5	<.01	
4073	441	446	5	<.01	
4074	446	450	4	.01	
4075	450	454	4	.05	
4076	462	465	3	<.01	

DIAMOND DRILL LOG

PROJECT: Garnet — COST CODE NO.: 1414

COMPANY: Western Pacific Energy Corp.

HOLE NO: G-85-6 — LOCATION: L60W/0+00 due N

AZIMUTH: Due N — DIP AT COLLAR: -45
300' 45

LOGGED BY: Phil Brown — DATE: January 25, 1986

DRILLED BY: Longyear Canada Inc.

LOG

0 - 35	CASING
35 - 300	DIORITE
	Med green fine gr. diorite minor carb veining at all angles
	35-57 badly broken (slips 30 and 45 to C/A generally)
	76' chalco in stringers
S.P.?	90 py, po minor cpy in coarse gr. phase
	135.5-136 carb, orange colour no sulphides seen
	141-141 carb breccia no metalics seen
	158 orange carb patches for 6"
	135-190 carb breccia. At 200' sphalerite speck
	213-214 carb vein 60 to C/A minor cpy, PbS (blue)
S.P.?	250-260 - porphyritic + py, po (minor zns, pale brown in some carb veins)
300	END OF HOLE

NO CORE SAMPLES

DIAMOND DRILL LOG

PROJECT:	Garnet	COST CODE NO.:	1414
COMPANY:	Western Pacific Energy Corp.		
HOLE NO:	G-85-7	LOCATION:	L19E 17 S
AZIMUTH:	N 30 E	DIP AT COLLAR:	-45
LOGGED BY:	Phil Brown	DATE:	January 29, 1986
DRILLED BY:	Longyear Canada Inc.		

LOG

0 - 34 CASING (OV.)

34 - 645 FELSIC TUFF

med green banded felsic tuff carb altered ending 55 to C/A

31-31.3 QV + cherts
38
36 bleached white creamy yellow to 49
38.5-40 QV chloritic pale green no sulphides seen
40-41 fine py seams - also at 56.5
44-46 fine py seams
46-47 QV minor fine py - occasional fine 1/32" seams py
56-61 white qtzitic + fine py
63 - 64.5 rusty - fault
73-4 QV
77-77.5 QV - banding 45 to C/A
75 - dark green qtz carb veins interbedding
108-109 1/4" QV 90 to bedding + py
164 - blackish green spotted qtz phenocrysts
175-6 50% qtz veining + pinkish qtz - very little fine py banding 45 to C/A
216-216.3 QV + carb no py
232 small xcutting QV + py
265-6 QV 1/16" + py xcutting beds
275-77 fault
280-290 pyritic sections esp. 288-89
299 small xcutting QV + ZnS
305 - greyish highly carbonated
332-345 Qtz carb shearing + minor py at shallow angle to core - some pinkish carb.
350-55 core ground
359-60 small pinkish xcutting vein + minor cpy
376-84 brown type carb + silicified and fractured + py + ASpy. 2 feet ground core - VLF anomaly?
400-402 broken core
402 - spotted crystal tuff med green + white spots qtz phenocrysts
413-14 small xcutting qtz vein + py still very little py
436-436.5 QV 60 to C/A - bleached - purplish tint, banding mainly 45 to C/A still much carb, much qtz stringers, parallel bedding

447-9 greyish + more py
460-461 ? xcutting stringers + py
462 - brownish red
475 becoming greyish - 45 banding.
503 - qtz veining + py, cpy (minor) banding 30 to 35 C/A
510-512 sulphides slightly more than usual continue to 545
536-7 x cutting QV - barren but chlorite rimmed.
540-3 - QV, xcutting + cpy, py + carb
553 - brown carb. highly carb (py + cpy scattered) also silicified
566 - dirty brown carb + scattered large py cubes 1/8", 1/4", 1/2"
614-15 1" QV down core, no py
623 - pink qtz carb vein + py (1/4" wide, 15" to C/A)
629-31 - graphite/pyrite + qv's
630-45 - silicified - banding 35 to C/A
639-639.5 small barren QV

645 END OF HOLE

HOLE NO. G-85-7

CORE SAMPLES

SAMPLE NUMBER	FROM	TO	SAMPLE LENGTH	ASSAY - ppm Au	Ag
4077	280	285		<0.01	
4078	285	290		0.01	
4079	375	376		<0.01	
4080	376	378		0.02	
4081	379	380		0.93	
4082	381	382		0.04	
4083	383	385		<0.01	
4084	460	461		<0.01	
4085	462	464		<0.01	
4086	465	470		<0.01	
4087	503	504		<0.01	
4088	505	508		<0.01	
4089	509	513		<0.01	
4090	514	518		<0.01	
4091	565	569		<0.01	
4092	570	575		<0.01	
4093	629	631.5		<0.01	
4094	636	638		0.01	
4099	580	581		<0.01	
4100	590	591		<0.01	

DIAMOND DRILL LOG

PROJECT: Garnet | COST CODE NO.: 1414

COMPANY: Western Pacific Energy Corp.

HOLE NO: G-85-10 | LOCATION: 32+00E 83+50S

AZIMUTH: Due N | DIP AT COLLAR: 45

LOGGED BY: Phil Brown | DATE: February 6, 1986

DRILLED BY: Longyear Canada Inc.

LOG

0 - 73 OVERBURDEN

73 - 321.5 QUARTZ PORPHYRY

Grey varying to pinkish orange qtz porphyry bedded 55 to C/A

152 - 154 - Minor py and qtz veining

160 - 163 - Some cpy in places, shallow angle qtz / cb veining

orange 85-97 scattered magnetite?

grey 97-117 scattered minor py

orange 117-128

128-140 orange/grey mixed

133-4 pinkish qtz/cb vein parallel to core

140-171 pale coloration carbonated + qtz veining some extra py - e.g. 153
171 - orange colour - 196
196-207 bleached sheering 60 to C/A at 214 small qtz vein + minor py
226 - orange again -255
255 - greenish-grey
258 qtz veining - qtz/carb + chlorite no py
285-288 partley bleached minor py. At 300 looks like felsp porph. banding to C/A, talc on slips

321.5-436.5 IF

begins graphitic broken at first, badly broken to 340 with iron oxide on fractures and much graphite, white chert bands and pyrite. Brecciated chert + remobilized py

344-5 small jasper bands
348-9 banding 70 to C/A
348-356 VLF
354-356.5 90 % py + gph. 6" massive py + 2" py.
358-371 creamy carb in chert section
365-6 gp + py
371-390 bedding 60 to C/A
390 - chert IF + py gp sections
405.5 - jasper IF + magnetite sections. Banding mainly 70 to C/A. Chert jasper ends 430'. very low py.

433-436 magnetite bands

436.5-465 DIORITE
fine grain med. green/dk green diorite.
449-452 qtz cb. veining + py cubes

465 END OF HOLE.

HOLE NO. G-85-10

CORE SAMPLES

SAMPLE NUMBER	FROM	TO	SAMPLE LENGTH	ASSAY - ppm Au	Ag
4130	152	154		<0.01	
4131	160	163		<0.01	
4132	318.5	320		0.12	
4133	321.5	324		0.03	
4134	325	329		0.12	
4135	330	334		0.26	
4136	335	339		0.11	
4137	340	344		0.29	
4138	345	347		0.04	
4139	348	349		0.14	
4140	350	353		<0.01	
4141	354	355		0.06	
4142	356.5	359		<0.01	
4143	360	364		<0.01	
4144	365	366		0.10	
4145	390	391		<0.01	
4146	392	394		<0.01	
4147	395	399		<0.01	
4148	400	404		<0.01	
4149	407.5	409.5		<0.01	
4150	414.5	415.5		0.10	
4151	449	452		<0.01	

DIAMOND DRILL LOG

PROJECT:	Garnet	COST CODE NO.:	1414
COMPANY:	Western Pacific Energy Corp.		
HOLE NO:	G-85-11	LOCATION:	12+00W, 21+50S
AZIMUTH:	Due N	DIP AT COLLAR:	-45 250' 45
LOGGED BY:	Phil Brown	DATE:	February 8, 1986
DRILLED BY:	Longyear Canada Inc.		

LOG

0 - 45	OVERBURDEN
45 - 70.5	GABBRO med. green, med. grain gabbro, minor py, occas. minor qtz cb stringers 45 and 30 to C/A. At 67' fine grained to 70.5
70.5 - 101	IF black magnetic py section 80'- brecciated + chert development, minor qtz carb banding 60 to C/A
101 - 167.5	FELSIC TUFF greyish green felsic tuff / agglomerate up to 1' x 1/2' angular frags. Minor cpy green 121 154.5-156 QV at shallow angle 15 with sulphides in wallrock py
167.5 - 176.5	IF Jasper magnetite py chert carb. 173-5 py VLF 5% py
176.5 - 184	TUFF
184 - 188	IF Chert py, rusty py zone, VLL 5% py, carb + silicification.
188 - 350	FELSIC TUFF 188-350 greyish qtz eyes, felsic tuff, occasional qtz stringers, no py
350	END OF HOLE

HOLE NO. G-85-11

CORE SAMPLES

SAMPLE NUMBER	FROM	TO	SAMPLE LENGTH	ASSAY - ppm Au	Ag
4252	74	75		<0.01	
4153	79	83		<0.01	
4154	84	87		0.02	
4155	88	89		<0.01	
4156	90	92		<0.01	
4157	93	94		<0.01	
4158	95	98		<0.01	
4159	99	101		<0.01	
4160	154.5	156		<0.01	
4161	172.5	175		<0.01	
4162	184	188		0.38	

Ministry of Northern Development and Mines

Ontario

Report of Work

1,99/86.

Mining

41010NE9138 22 GARNET

900

Name and [redacted] Address of Recorded Holder

D.G. [redacted]

Garnet Twp

C-32477 [redacted]

1275 Main Street West, North Bay, Ontario. P1B 2W7

Summary of Work Performance and Distribution of Credits

Total Work Days Cr. claimed ~~5,672~~ 5,630

for Performance of the following work. (Check one only)

- ☐ Manual Work
- ☐ Shaft Sinking Drifting or other Lateral Work.
- ☐ Compressed Air, other Power driven or mechanical equip.
- ☐ Power Stripping
- ☒ Diamond or other Core drilling
- ☐ Land Survey

Mining Claim Prefix	Mining Claim Number	Work Days Cr.	Mining Claim Prefix	Mining Claim Number	Work Days Cr.	Mining Claim Prefix	Mining Claim Number	Work Days Cr.
	797501	55		797509	55		797517	55
[redacted]	797502	55	[redacted]	797510	55	[redacted]	797518	55
	797503	55		797511	55		797519	55
	797504	55		797512	55		797520	55
	797505	55		797513	55		797521	55
	797506	55		797514	55		797524	55
	797507	55		797515	55		797525	55
	797508	55		797516	55		797526	55

All the work was performed on Mining Claim(s): P-798056, 798060, 798066, 798061, 797563, 797564, 797551, 797504 797516, 797509

Required Information eg: type of equipment, Names, Addresses, etc. (See Table Below)

Longyear Canada Inc.
1111 Main Street West
North Bay, Ontario.

RECORDED
JUN 17 1986

Daimond Drill core size BQ

Drilling from November 30, 1985 to February 14, 1986

P-797509

PORCUPINE MINING DIVISION
RECEIVED
JUN 17 1986

ONTARIO GEOLOGICAL SURVEY
ASSESSMENT FILES
RESEARCH OFFICE

JUL 3 1986

RECEIVED

Date of Report	Recorded Holder or Agent (Signature)
April 21, 1986	D. Dubeau

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

Quinterra Resources Inc., 1275 Main Street West, North Bay, Ont. P1B 2W7

Date Certified	Certified by (Signature)
April 21, 1986	D. Dubeau

Table of Information/Attachments Required by the Mining Recorder

Type of Work	Specific information per type	Other information (Common to 2 or more types)	Attachments
Manual Work	Nil	Names and addresses of men who performed manual work/operated equipment, together with dates and hours of employment.	Work Sketch: these are required to show the location and extent of work in relation to the nearest claim post.
Shaft Sinking, Drifting or other Lateral Work			
Compressed air, other power driven or mechanical equip.	Type of equipment		
Power Stripping	Type of equipment and amount expended. **Note:** Proof of actual cost must be submitted within 30 days of recording.	Names and addresses of owner or operator together with dates when drilling/stripping done.	
Diamond or other core drilling	Signed core log showing; footage, diameter of core, number and angles of holes.		Work Sketch (as above) in duplicate
Land Survey	Name and address of Ontario land surveyor.	Nil	Nil

768 (85/12)

CLAIM NO.	WORK DAY CREDITS	CLAIM NO.	WORK DAY CREDITS
797522	26	797553	25
797523	26	797554	25
797531	26	797555	25
797532	26	797556	25
797535	26	797557	25
797536	26	797558	25
797537	26	797561	25
797538	25	797562	25
797545	25	797563	25
		797564	25
797546	25	797565	25
797547	25	797566	25
797548	25	797567	25
797550	25	797571	25
797551	25	797572	25
797552	25	797573	25
		798032	25
		798033	25
		798034	25
		798035	25
		798046	25
		798047	25
		798055	25
		798056	25
		798057	25
		798059	25
		798060	25
		798061	25
		798062	25
		798065	25
		798066	25
		798067	25
		798069	25
		798087	25
		798088	25
		798093	25
		798094	25
		TOTAL	138.2

PORCUPINE MI[illegible]
RECEIVED
JUN 17 1986

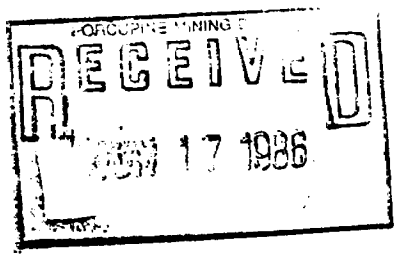
Total - 5 630 feet
Total - 5,597 [illegible]
Balance 33 feet kept in [illegible]

CLAIM NO.	WORK DAY CREDITS
797527	55
797528	55
797529	55
797530	55
797533	55
797534	55
797539	55
797540	55
797541	55
797542	55
797543	55
797544	55
797549	55
797559	55
797560	55
797568	55
797569	55
797570	55
798030	55
798031	55
798036	55
798037	55
798038	55
798039	55
798040	55
798041	55
798042	55
798043	55
798044	55
798045	55

CLAIM NO.	WORK DAY CREDITS
798048	55
798058	55
798063	55
798064	55
798068	55
798070	55
798071	55
798072	55
798080	55
798081	55
798082	55
798083	55
798084	55
798085	55
798086	55
798089	55
798090	55
798091	55
798092	55
798095	55
798096	55
798097	55
798098	55
798099	55

TOTAL OF 78 CLAIMS

TOTAL OF4,290 CREDITS



M.829

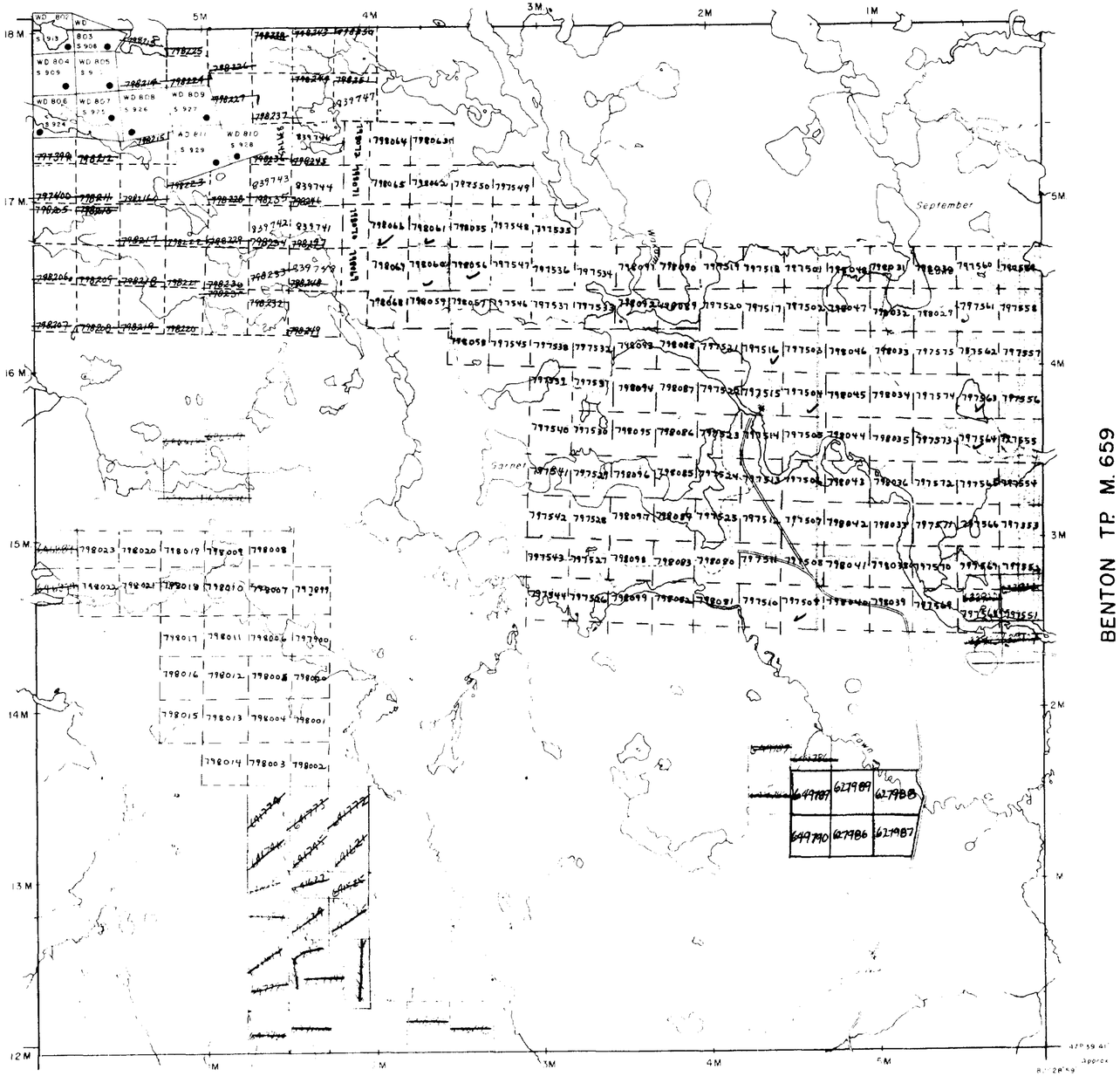
GARNET TWP.

NOTES

400' surface rights reservation along the shores of all lakes and rivers.

F01 SILED ONLY Application (file 839742)

DORE TP. M. 763



CUNNINGHAM TP. M.744

BENTON TP. M. 659

FAWN TP. M.804

LEGEND

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

F.O.1 - Filed ONLY - see file P. 839742 Nov 19/85

DISPOSITION OF CROWN LANDS

TYPE OF DOCUMENT		SYMBOL
PATENT	SURFACE & MINING RIGHTS	●
	SURFACE RIGHTS ONLY	◒
	MINING RIGHTS ONLY	◒
LEASE	SURFACE & MINING RIGHTS	■
	SURFACE RIGHTS ONLY	◧
	MINING RIGHTS ONLY	◧
LICENCE OF OCCUPATION		◀
CROWN LAND SALE		C.S.
ORDER-IN-COUNCIL		OC
RESERVATION		®
CANCELLED		⊗
SAND & GRAVEL		©

SCALE : 1 INCH 40 CHAINS

FEET 0 500 1000 2000 4000 6000 8000
METRES 0 200 400 600 800 1KM 2KM

ACRES	HECTARES
40	16

TOWNSHIP

GARNET

DISTRICT

SUDBURY

MINING DIVISION

PORCUPINE

Received Jan 4/80

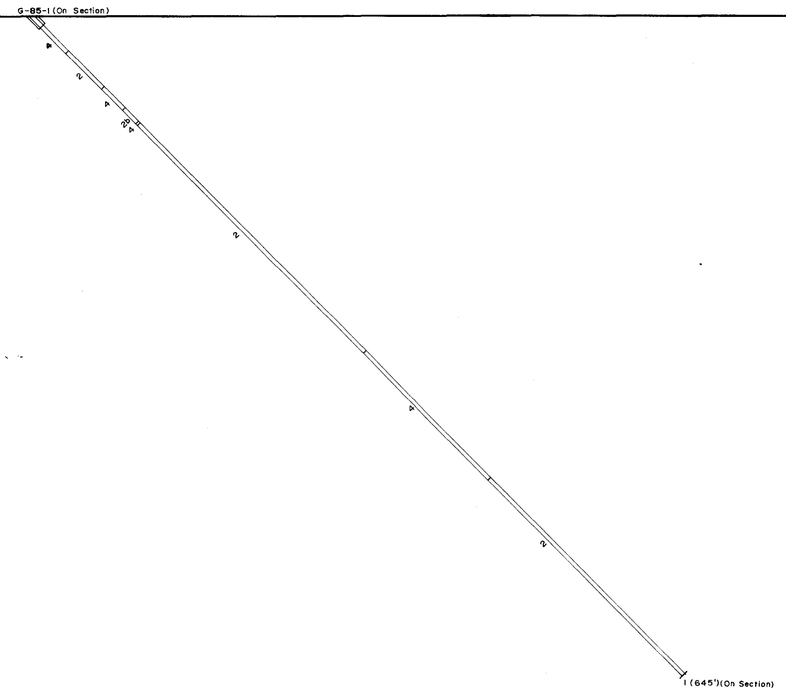
Ministry of Natural Resources

Ontario Surveys and Mapping Branch

Plan No.

M.829

9S 8S 7S 6S 5S 4S 3S 2S 1S 0 1N 2N 3N 4N 5N 6N 7N



700

800

900

1000

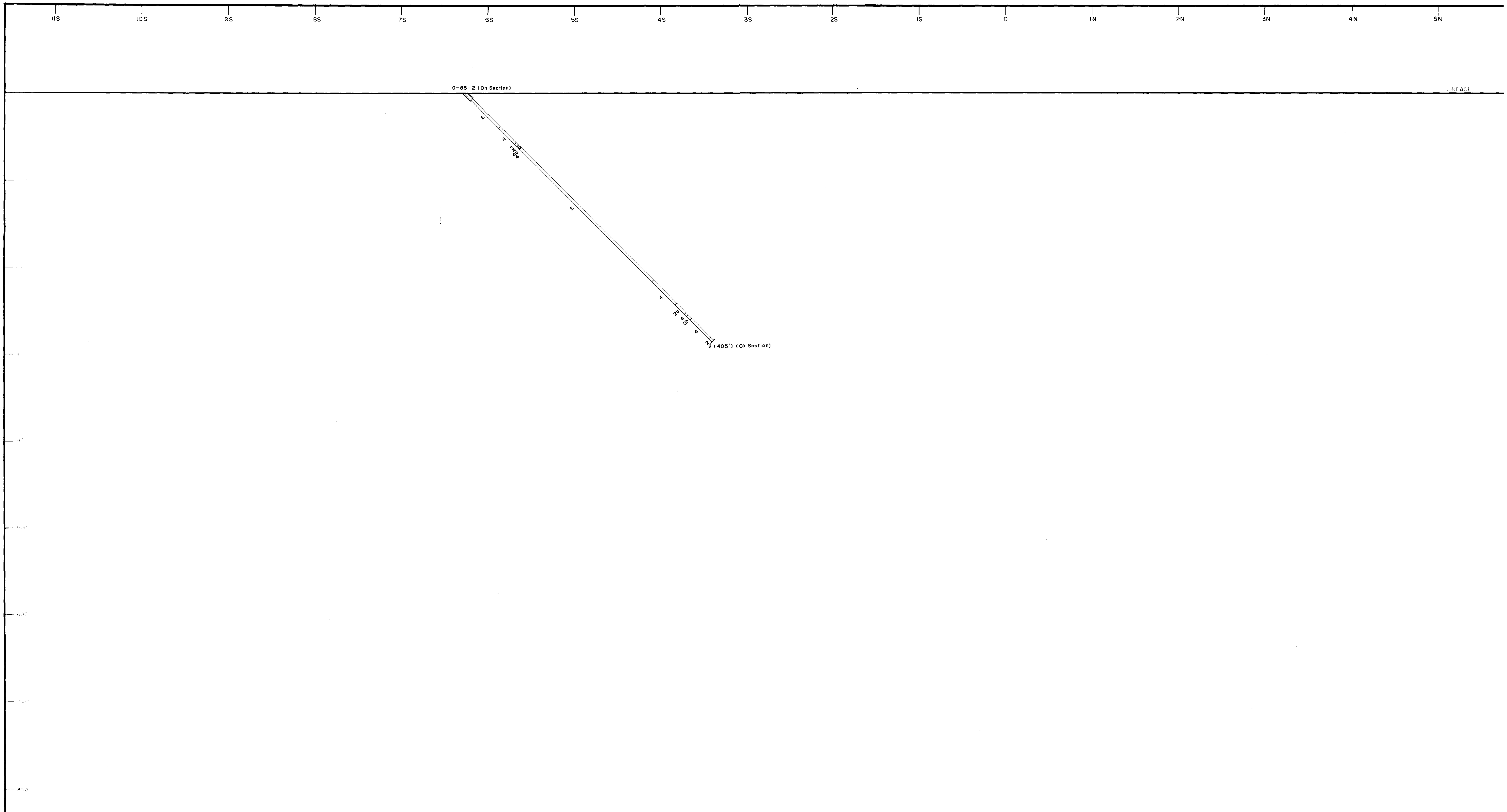
1100

py pyrite
po pyrrhotite
cpy chalcopyrite
sp sphalerite

- 5 SEDIMENTS
  - 5a GREYWACKE, MUDSTONE
  - 5b CHERT
  - 5c GRAPHITE
- 4 IRON FORMATION
  - 4a SULPHIDE SERIES
  - 4b CHERT OXIDE FACIES
- 3 FELSIC VOLCANICS
  - 3a FLOWS
  - 3b TUFFS & FRAGMENTALS
- 2 INTERMEDIATE VOLCANICS
  - 2a FLOWS
  - 2b TUFFS & FRAGMENTALS
- MAFIC INTRUSIVES
- FELSIC INTRUSIVES
- GRANITIC ROCKS

Scale 0 25 50 100 FEET

WESTERN PACIFIC ENERGY CORP.		
GARNET PROPERTY		
DIAMOND DRILL SECTIONS		
HOLE No's : G-85-1		
LOCATION : 32+00 W		
SCALE 1" = 50'	DATE DEC 1985	DRAWN BY PARB, C.J.A.



py pyrite
po pyrrhotite
cpy chalcopyrite
sp sphalerite

MAFIC INTRUSIVES
FELSIC INTRUSIVES
GRANITIC ROCKS
5 SEDIMENTS
5a GREYWACKE, MUDSTONE
5b CHERT
5c GRAPHITE
4 IRON FORMATION
4a SULPHIDE SERIES
4b CHERT OXIDE FACIES
3 FELSIC VOLCANICS
3a FLOWS
3b TUFFS & FRAGMENTALS
2 INTERMEDIATE VOLCANICS
2a FLOWS
2b TUFFS & FRAGMENTALS

1 MAFIC VOLCANICS
1a FLOWS
1b TUFFS & FRAGMENTALS
UM ULTRAMAFIC ROCKS, TAL
SS SILICIFICATION
CC CARBONATIZATION
SR SERITIZATION
QV QUARTZ VEINING
CV CARBONATE VEINING
SHEARING

Scale 0 25 50 100 FEET

WESTERN PACIFIC ENERGY CORP.

GARNET PROPERTY

DIAMOND DRILL SECTIONS

HOLE No's: G-85-2

LOCATION: 48+00 W

SCALE 1" = 50'	DATE DEC 1985	DRAWN BY P.A.R.B,C

9S 8S 7S 6S 5S 4S 3S 2S 1S 0 1N 2N 3N 4N 5N 6N 7N

SURFACE

G-85-3 (On Section)

2
4
20
4
2
15
2

3(465')(On Section)

G-85-5b (On Section)

15
4
25
30
25
30
5

5b (465')(On Section)

100
200
300
400
500
600
700
800
900
1000
1100

py pyrite
po pyrrhotite
cpy chalcopyrite
sp sphalerite

- MAFIC INTRUSIVES
- FELSIC INTRUSIVES
- GRANITIC ROCKS
- 5 SEDIMENTS
  - 5a GREYWACKE, MUDSTONE
  - 5b CHERT
  - 5c GRAPHITE
- 4 IRON FORMATION
  - 4a SULPHIDE SERIES
  - 4b CHERT OXIDE FACIES
- 3 FELSIC VOLCANICS
  - 3a FLOWS
  - 3b TUFFS & FRAGMENTALS
- 2 INTERMEDIATE VOLCANICS
  - 2a FLOWS
  - 2b TUFFS & FRAGMENTALS
- 1 MAFIC VOLCANICS
  - 1a FLOWS
  - 1b TUFFS & FRAGMENTALS
- UM ULTRAMAFIC ROCKS, TALC
- SS SILISIFICATION
- CC CARBONATIZATION
- SR SERITIZATION
- QV QUARTZ VEINING
- CV CARBONATE VEINING
- SHEARING

Scale: 0 25 50 100 FEET

WESTERN PACIFIC ENERGY CORP.

GARNET PROPERTY

DIAMOND DRILL SECTIONS

HOLE No's: G-85-3, G-85-5b

LOCATION: 72+00 W

SCALE 1" = 50' | DATE DEC 1985 | DRAWN BY P.A.R.B, C.J.A

230

8S 7S 6S 5S 4S 3S 2S 1S 0 1N 2N 3N 4N 5N 6N 7N 8N

G-85-4 (On Section)

SCALE

0.0

200

300

400

500

600

700

800

900

1000

1100

4 (415') (On Section)

py	pyrite
po	pyrrhotite
cpy	chalcopyrite
sp	sphalerite

- MAFIC INTRUSIVES
- FELSIC INTRUSIVES
- GRANITIC ROCKS
- 5 SEDIMENTS
  - 5a GREYWACKE, MUDSTONE
  - 5b CHERT
  - 5c GRAPHITE
- 4 IRON FORMATION
  - 4a SULPHIDE SERIES
  - 4b CHERT OXIDE FACIES
- 3 FELSIC VOLCANICS
  - 3a FLOWS
  - 3b TUFFS & FRAGMENTALS
- 2 INTERMEDIATE VOLCANICS
  - 2a FLOWS
  - 2b TUFFS & FRAGMENTALS
- 1 MAFIC VOLCANICS
  - 1a FLOWS
  - 1b TUFFS & FRAGMENTALS
- UM ULTRAMAFIC ROCKS, TALC
- SS SILICIFICATION
- CC CARBONATIZATION
- SR SERITIZATION
- QV QUARTZ VEINING
- CV CARBONATE VEINING
- SHEARING

Scale: 0 25 50 100 FEET

WESTERN PACIFIC ENERGY CORP.	
GARNET PROPERTY	
DIAMOND DRILL SECTIONS	
HOLE No's: G-85-4	
LOCATION: 76+00 W	
SCALE 1" = 50'	DATE JAN 1986
DRAWN BY P.A.R.B.C.J.A.	

5S 4S 3S 2S 1S 0 1N 2N 3N 4N 5N 6N 7N 8N 9N 10N 11N

SURFACE

G-85-5 (On Section)

5(205')(On Section)

100

200

300

400

500

600

700

800

900

1000

1100

py pyrite
po pyrrhotite
cpy chalcopyrite
sp sphalerite

- MAFIC INTRUSIVES
- FELSIC INTRUSIVES
- GRANITIC ROCKS
- 5 SEDIMENTS
  - 5a GREYWACKE, MUDSTONE
  - 5b CHERT
  - 5c GRAPHITE
- 4 IRON FORMATION
  - 4a SULPHIDE SERIES
  - 4b CHERT OXIDE FACIES
- 3 FELSIC VOLCANICS
  - 3a FLOWS
  - 3b TUFFS & FRAGMENTALS
- 2 INTERMEDIATE VOLCANICS
  - 2a FLOWS
  - 2b TUFFS & FRAGMENTALS
- 1 MAFIC VOLCANICS
  - 1a FLOWS
  - 1b TUFFS & FRAGMENTALS
- UM ULTRAMAFIC ROCKS, TALC
- SS SILICIFICATION
- CC CARBONATIZATION
- SR SERITIZATION
- QV QUARTZ VEINING
- CV CARBONATE VEINING
- SHEARING

250

Scale 0 25 50 100 FEET

WESTERN PACIFIC ENERGY CORP.

GARNET PROPERTY

DIAMOND DRILL SECTIONS

HOLE No's : G-85-5

LOCATION : 72+00 W

SCALE	DATE	DRAWN BY
1" = 50'	JAN 1986	CJA

8S 7S 6S 5S 4S 3S 2S 1S 0 1N 2N 3N 4N 5N 6N 7N 8N

SURFACE

G-85-6 (On Section)

6(117'E)

100

200

300

400

500

600

700

800

900

1000

1100

py	pyrite
po	pyrrhotite
cpy	chalcopyrite
sp	sphalerite

- MAFIC INTRUSIVES
- FELSIC INTRUSIVES
- GRANITIC ROCKS
- 5 SEDIMENTS
  - 5a GREYWACKE, MUDSTONE
  - 5b CHERT
  - 5c GRAPHITE
- 4 IRON FORMATION
  - 4a SULPHIDE SERIES
  - 4b CHERT OXIDE FACIES
- 3 FELSIC VOLCANICS
  - 3a FLOWS
  - 3b TUFFS & FRAGMENTALS
- 2 INTERMEDIATE VOLCANICS
  - 2a FLOWS
  - 2b TUFFS & FRAGMENTALS
- MAFIC VOLCANICS
  - 1a FLOWS
  - 1b TUFFS & FRAGMENTALS
- UM ULTRAMAFIC ROCKS, TALC
- SS SILICIFICATION
- CC CARBONATIZATION
- SR SERITIZATION
- QV QUARTZ VEINING
- CV CARBONATE VEINING
- SHEARING

"LOOKING WEST"

Scale 0 25 50 100 FEET

WESTERN PACIFIC ENERGY CORP.

GARNET PROPERTY

DIAMOND DRILL SECTIONS

HOLE No's: G-85-6

LOCATION: 60+00 W

SCALE 1" = 50' | DATE JAN 1986 | DRAWN BY P.A.R.B, C.J.A

24S 23S 22S 21S 20S 19S 18S 17S 16S 15S 14S 13S 12S 11S 10S 9S 8S

SURFACE

G-85-7 (On Section)

39

7(228°E)

100
200
300
400
500
600
700
800
900
1000
1100

py pyrite
po pyrrhotite
cpy chalcopyrite
sp sphalerite

- MAFIC INTRUSIVES
- FELSIC INTRUSIVES
- GRANITIC ROCKS
- 5. SEDIMENTS
  - 5a. GREYWACKE, MUDSTONE
  - 5b CHERT
  - 5c GRAPHITE
- 4 IRON FORMATION
  - 4a SULPHIDE SERIES
  - 4b CHERT - OXIDE FACIES
- 3 FELSIC VOLCANICS
  - 3a FLOWS
  - 3b TUFFS & FRAGMENTALS
- 2 INTERMEDIATE VOLCANICS
  - 2a FLOWS
  - 2b TUFFS & FRAGMENTALS
- 1 MAFIC VOLCANICS
  - 1a FLOWS
  - 1b TUFFS & FRAGMENTALS
- UM ULTRAMAFIC ROCKS, TALC
- SS SILISIFICATION
- CC CARBONATIZATION
- SR SERITIZATION
- QV QUARTZ VEINING
- CV CARBONATE VEINING
- SHEARING

"LOOKING WEST"

Scale: 0 25 50 100 FEET

WESTERN PACIFIC ENERGY CORP.

GARNET PROPERTY

DIAMOND DRILL SECTIONS

HOLE No's: G-85-7

LOCATION: 19+00 E

SCALE 1" = 50' | DATE DEC 1985 | DRAWN BY P.A.R.B., C.J.A.

31 S | 30 S | 29 S | 28 S | 27 S | 26 S | 25 S | 24 S | 23 S | 22 S | 21 S | 20 S | 19 S | 18 S | 17 S | 16 S | 15 S

G-85-8 (On Section)

SURFACE

8 (110°E)

100
200
300
400
500
600
700
800
900
1000
1100

py pyrite
po pyrrhotite
cpy chalcopyrite
sp sphalerite

- MAFIC INTRUSIVES
- FELSIC INTRUSIVES
- GRANITIC ROCKS
- 5 SEDIMENTS
  - 5a GREYWACKE, MUDSTONE
  - 5b CHERT
  - 5c GRAPHITE
- 4 IRON FORMATION
  - 4a SULPHIDE SERIES
  - 4b CHERT OXIDE FACIES
- 3 FELSIC VOLCANICS
  - 3a FLOWS
  - 3b TUFFS & FRAGMENTALS
- 2 INTERMEDIATE VOLCANICS
  - 2a FLOWS
  - 2b TUFFS & FRAGMENTALS
- MAFIC VOLCANICS
  - 1a FLOWS
  - 1b TUFFS & FRAGMENTALS
- ULTRAMAFIC ROCKS, TALC
- SILICIFICATION
- CARBONATIZATION
- SERITIZATION
- QUARTZ VEINING
- CARBONATE VEINING
- SHEARING

"LOOKING WEST"

Scale: 0 25 50 100 FEET

WESTERN PACIFIC ENERGY CORP.
GARNET PROPERTY
DIAMOND DRILL SECTIONS
HOLE No's : G-85-8
LOCATION : 19+50 E
SCALE 1" = 50' | DATE DEC 1985 | DRAWN BY P.A.R.B, C.J.A.

35S 34S 33S 32S 31S 30S 29S 28S 27S 26S 25S 24S 23S 22S 21S 20S 19S

SURFACE

G-85-9 (On Section)

9 (110° E)

100
200
300
400
500
600
700
800
900
1000
1100

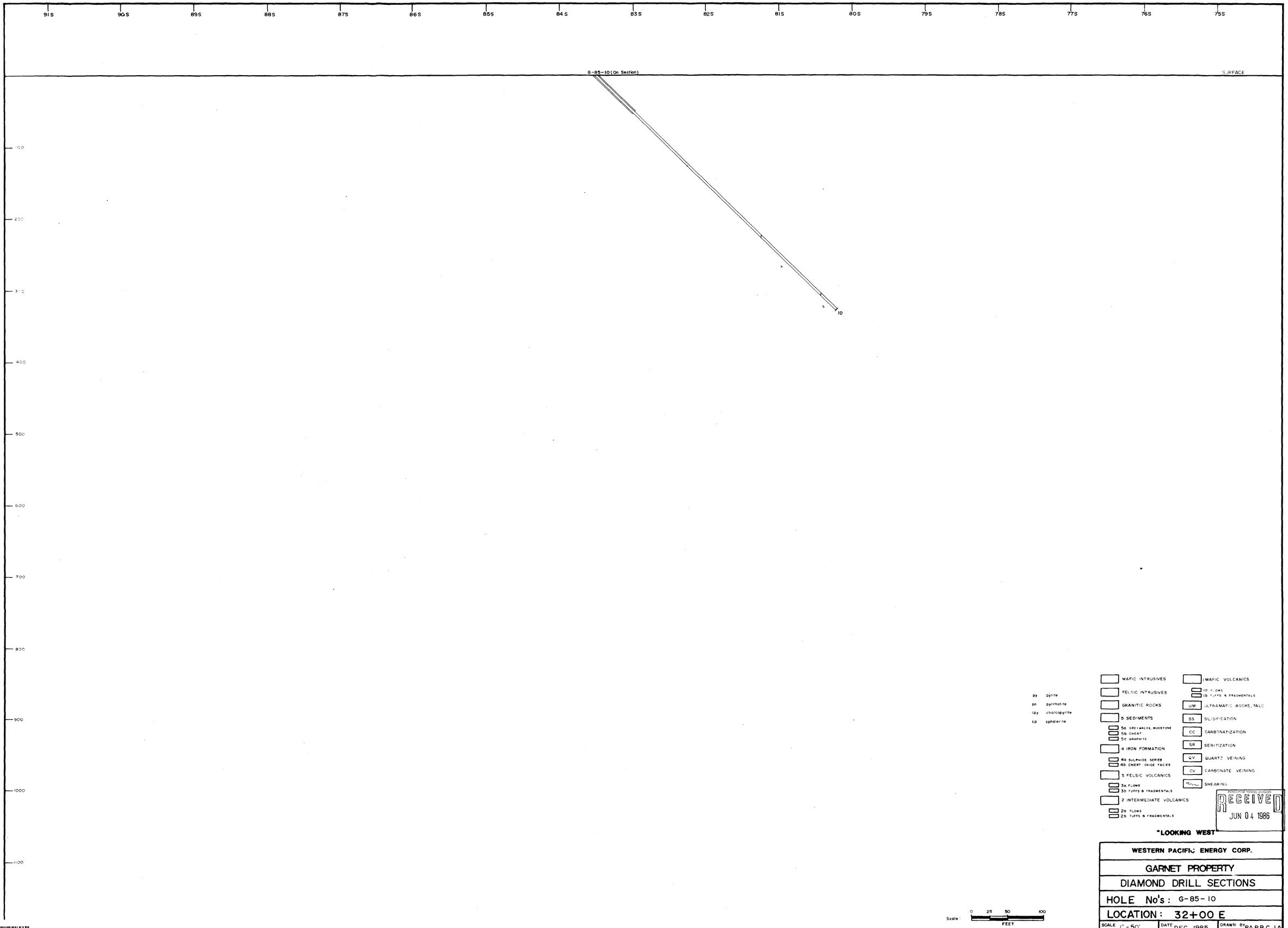
py	pyrite
po	pyrrhotite
cpy	chalcopyrite
sp	sphalerite

- MAFIC INTRUSIVES
- FELSIC INTRUSIVES
- GRANITIC ROCKS
- 5 SEDIMENTS
  - 5a GREYWACKE, MUDSTONE
  - 5b CHERT
  - 5c GRAPHITE
- 4 IRON FORMATION
  - 4a SULPHIDE SERIES
  - 4b CHERT OXIDE FACIES
- 3 FELSIC VOLCANICS
  - 3a FLOWS
  - 3b TUFFS & FRAGMENTALS
- 2 INTERMEDIATE VOLCANICS
  - 2a FLOWS
  - 2b TUFFS & FRAGMENTALS
- MAFIC VOLCANICS
  - 1a FLOWS
  - 1b TUFFS & FRAGMENTALS
- UM ULTRAMAFIC ROCKS, TALC
- SS SILICIFICATION
- CC CARBONATIZATION
- SR SERITIZATION
- QV QUARTZ VEINING
- CV CARBONATE VEINING
- SHEARING

Scale: 0 25 50 100 FEET

"LOOKING WEST"

WESTERN PACIFIC ENERGY CORP.
GARNET PROPERTY
DIAMOND DRILL SECTIONS
HOLE No's: G-85-9
LOCATION: 16+00 E
SCALE 1" = 50' | DATE DEC 1985 | DRAWN BY P.A.R.B, C.J.A



py	pyrite
po	pyrrhotite
cpy	chalcopyrite
sp	sphalerite

- MAFIC INTRUSIVES
- FELSIC INTRUSIVES
- GRANITIC ROCKS
- 5 SEDIMENTS
  - 5a GREYWACKE, MUDSTONE
  - 5b CHERT
  - 5c GRAPHITE
- 4 IRON FORMATION
  - 4a SULPHIDE SERIES
  - 4b CHERT - OXIDE FACIES
- 3 FELSIC VOLCANICS
  - 3a FLOWS
  - 3b TUFFS & FRAGMENTALS
- 2 INTERMEDIATE VOLCANICS
  - 2a FLOWS
  - 2b TUFFS & FRAGMENTALS
- 1 MAFIC VOLCANICS
  - 1a FLOWS
  - 1b TUFFS & FRAGMENTALS
- UM ULTRAMAFIC ROCKS, TALC
- SS SILISIFICATION
- CC CARBONATIZATION
- SR SERITIZATION
- QV QUARTZ VEINING
- CV CARBONATE VEINING
- SHEARING

"LOOKING WEST"

Scale: 0 25 50 100 FEET

WESTERN PACIFIC ENERGY CORP.

GARNET PROPERTY

DIAMOND DRILL SECTIONS

HOLE No's: G-85-10

LOCATION: 32+00 E

SCALE 1" = 50' | DATE DEC 1985 | DRAWN BY P.A.R.B, C.J.A

29S 28S 27S 26S 25S 24S 23S 22S 21S 20S 19S 18S 17S 16S 15S 14S 13S

SURFACE

G-85-II (On Section)

5 4 39 4 2 4 39

II(350')(On Section)

100
200
300
400
500
600
700
800
900
1000
1100

py pyrite
po pyrrhotite
cpy chalcopyrite
sp sphalerite

- MAFIC INTRUSIVES
- FELSIC INTRUSIVES
- GRANITIC ROCKS
- 5 SEDIMENTS
  - 5a GREYWACKE, MUDSTONE
  - 5b CHERT
  - 5c GRAPHITE
- 4 IRON FORMATION
  - 4a SULPHIDE SERIES
  - 4b CHERT OXIDE FACIES
- 3 FELSIC VOLCANICS
  - 3a FLOWS
  - 3b TUFFS & FRAGMENTALS
- 2 INTERMEDIATE VOLCANICS
  - 2a FLOWS
  - 2b TUFFS & FRAGMENTALS
- 1 MAFIC VOLCANICS
  - 1a FLOWS
  - 1b TUFFS & FRAGMENTALS
- UM ULTRAMAFIC ROCKS, TALC
- SS SILICIFICATION
- CC CARBONATIZATION
- SR SERITIZATION
- QV QUARTZ VEINING
- CV CARBONATE VEINING
- SHEARING

Scale 0 25 50 100 FEET

WESTERN PACIFIC ENERGY CORP.

GARNET PROPERTY

DIAMOND DRILL SECTIONS

HOLE No's: G-85-II

LOCATION: 12+00 W

SCALE 1" = 50' | DATE FEB 1986 | DRAWN BY C.J.A

7N 8N 9N 10N 11N 12N 13N 14N 15N 16N 17N 18N 19N 20N 21N 22N 23N

SURFACE

100
200
300
400
500
600
700
800
900
1000
1100

G-85-12 (On Section)

12 (150' E)

py pyrite
po pyrrhotite
cpy chalcopyrite
sp sphalerite

- MAFIC INTRUSIVES
- FELSIC INTRUSIVES
- GRANITIC ROCKS
- 5. SEDIMENTS
  - 5a. GREYWACKE, MUDSTONE
  - 5b. CHERT
  - 5c. GRAPHITE
- 4 IRON FORMATION
  - 4a SULPHIDE SERIES
  - 4b. CHERT OXIDE FACIES
- 3 FELSIC VOLCANICS
  - 3a FLOWS
  - 3b TUFFS & FRAGMENTALS
- 2 INTERMEDIATE VOLCANICS
  - 2a FLOWS
  - 2b TUFFS & FRAGMENTALS
- 1 MAFIC VOLCANICS
  - 1a FLOWS
  - 1b TUFFS & FRAGMENTALS
- UM ULTRAMAFIC ROCKS, TALC
- SS SILISIFICATION
- CC CARBONATIZATION
- SR SERITIZATION
- QV QUARTZ VEINING
- CV CARBONATE VEINING
- SHEARING

PORCUPINE MINING DIVISION
RECEIVED
JUN 04 1986

LOOKING WEST

Scale: 0 25 50 100 FEET

WESTERN PACIFIC ENERGY CORP.

GARNET PROPERTY

DIAMOND DRILL SECTIONS

HOLE No's: G-85-12

LOCATION: 44+00 W

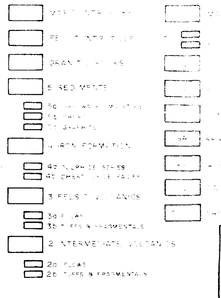
SCALE 1" = 50' | DATE FEB 1986 | DRAWN BY P.A.R.B, C.J.A

77S 76S 75S 74S 73S 72S 71S 70S 69S 68S 67S 66S 65S 64S 63S 62S 61S

G-85-13 (On Section)

SURFACE

13(1145')(On Section)



Scale 25 50 FEET

WESTERN PACIFIC ENERGY CORP.
GARNET PROPERTY
DIAMOND DRILL SECTIONS
HOLE No's: G-85-13
LOCATION: 35+00 W
SCALE 1"=50' | DATE FEB, 1986 | DRAWN BY C.J.A

010

HORIZONTAL LOOP ELECTROMAGNETIC

VLF AND MAGNETOMETER SURVEYS

HALCROW TOWNSHIP CLAIMS

Project 3381.1

CLAIMS P-565761 to P-565754
P-565775 to P-565778

Porcupine Mining Division
Ontario

N.T.S. 41-0-15

Halcrow Township

By: Konny Lai

July, 1982

TABLE OF CONTENTS

INTRODUCTION

Nine claims were staked in May, 1980 to cover an old gold occurrence known as the Lyall-Beidelman showing located at the extreme western end of the Swayze Volcanic Belt.

The showing is noted as having significant gold values associated with disseminated pyrite, arsenopyrite and quartz veinlets in two E-W fracture zones within the red feldspar porphyry. It was reported that the gossans from these 2 zones panned gold very freely and some fine native gold was noted in one place. As such the Halcrow property is essentially a gold venture.

It was hoped that the VLF electromagnetic survey might outline the two mineralized fracture zones and any hidden fracture zones yet to be discovered. The disseminated sulfides within the red feldspar porphyry may form marginally conductive structures to be detected by VLF-electromagnetic survey. The Max-Min II horizontal Loop electromagnetic survey was used to clarify the VLF-Em responses and to outline more conductive structures. The magnetometer survey was conducted primarily to define lithologies and geologic structures.

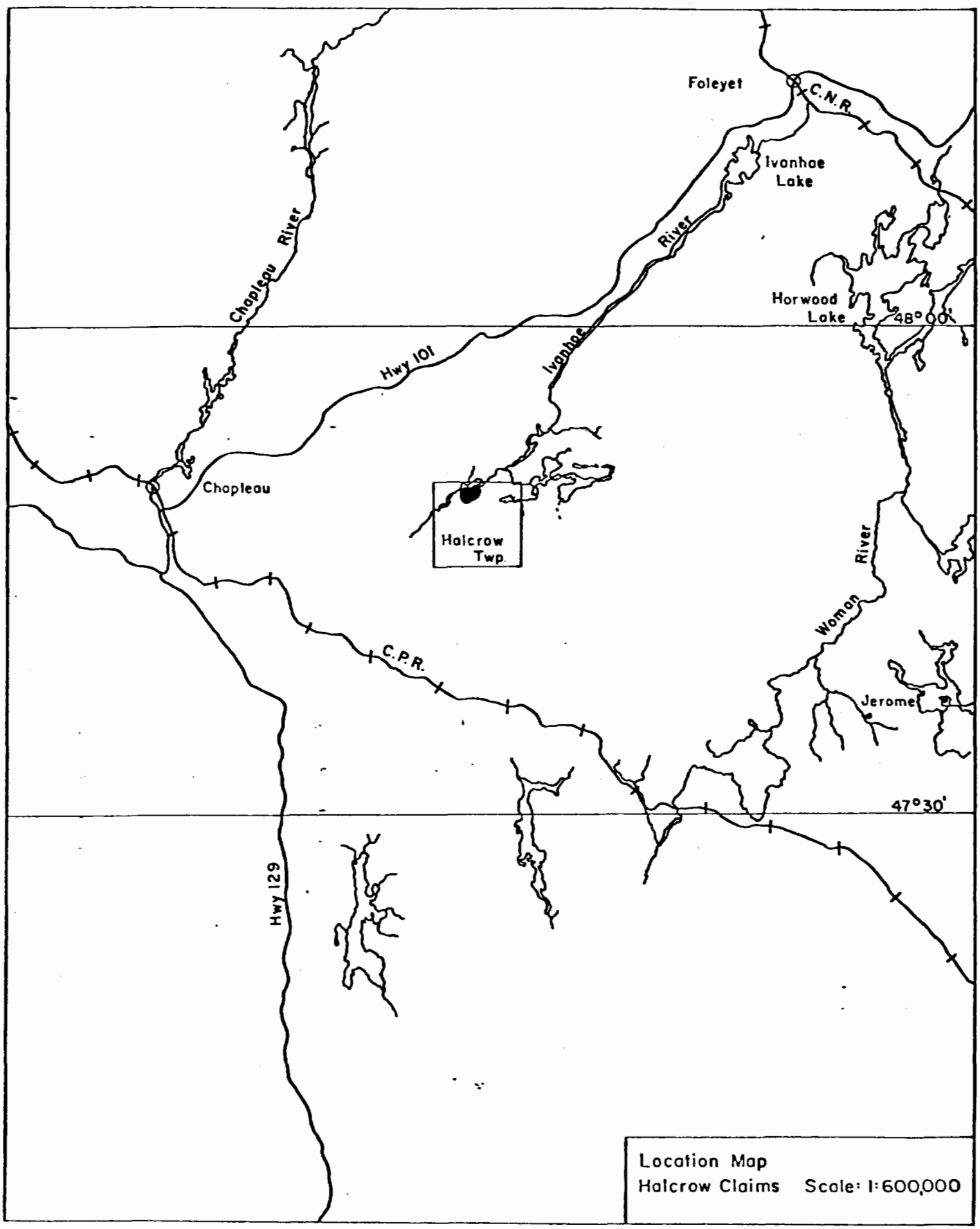
LOCATION AND ACCESS

The claim group is located approximately 35 km due east of the town of Chapleau and 14 km southeast of Highway 101 in Halcrow Township, Sudbury District (Figure 1).

There is no access road that leads directly to the property. But it can be reached by boat via Ivanhoe River through a few portages or by float - plane from Chapleau or

...../2

FIGURE 1.


Foleyet
C.N.R.
Ivanhoe Lake
Chapleau River
Ivanhoe River
Horwood Lake
48°00'
Hwy 101
Chapleau
Halcrow Twp.
Woman River
C.P.R.
Jerome
47°30'
Hwy 129
Location Map
Halcrow Claims Scale: 1:600,000

Foleyet.

PROPERTY DESCRIPTION

The claim group consists of nine, sixteen hectare claims as follows.

CLAIM NUMBER	RECORDING DATE
P-565751 to P-565754 inclusive	May 21, 1980
P-565775 to P-565779 inclusive	May 21, 1980

The above claims are held by Sulpetro Minerals Limited, 2161 Yonge Street, Suite 301, Toronto, Ontario, M4S 3A6.

The claims are in good standing and are presently held under extension until the 22nd of November, 1982.

GEOLOGIC REPORT

The northeast quarter of the property is underlain by conglomerate and other sediments of the Swayze series and mafic volcanics.

The southern half of the group is dominated by large bosses or dikes of red and grey feldspar porphyry which hosts the auriferous mineralizations (Diabase dykes are found cross cutting the older units).

The formational strikes in the immediate grid area appear to be more or less east-west. The property lies on the north limb of a major east-west trending tightly folded doubly-plunging synclinorium. The volcano-sedimentary piles are strongly deformed.

...../3

PREVIOUS WORK

Lyall-Beidelman showing on claim 565779 was originally staked for I.C. Beidelman and Associates of Montreal in 1934. Trenching, rock sampling, minor blasting and extensive outcrop stripping were carried out soon after.

In 1966, six short diamond drill holes totalling 400 feet were put down by Dalhousie Oil Company Limited under the supervision of L. Hobbs. However no significant assays were obtained from this exploration effort.

In 1981, line cutting and geologic mapping was carried out by Sulpetro Minerals Limited under the direction of A. W. Beecham. Rock sampling of the showing area has returned significant gold values of up to 4.35 gm/tonne gold in a grab sample of arsenopyrite - bearing quartz vein and bleached wall-rock.

SURVEY PROCEDURE

VLF Survey

Logistical details regarding the survey are listed below:

Survey Dates:	21 to 23 June and 27 June, 1982
Personnel:	K. Lai
Instrumentation:	Crone Radem
Transmitter Station:	Cutler, Maine, U.S.A.
Frequency:	17.8 kHz
Reading Interval:	12.5m
Parameter Read:	Dip angle of resultant field

The dip angle data are plotted in profile form on a grid map at a scale of 1:2000. The profile scale is 1 cm = 10'.

...../4

Furthermore, the data were processed by the Fraser filter method to transform the rather noisy, non contourable dip angles into less noisy, contourable data which enhances the values of VLF-EM Survey. The results were plotted on a grid map at a scale of 1:2000 and contoured on an interval of 10 units.

Details pertaining to the instrumentation specifications can be found in Appendix A.

MAGNETOMETER SURVEY

Logistical details regarding the survey are listed below:

Survey Dates:	21 to 23 June and 27 June, 1982
Personnel:	A. Millholland
Instrumentation:	Barringer GM-122 Proton Magnetometer
Reading Interval:	25m
Parameter Read:	Total Magnetic Field

The field data were corrected for diurnal variations by taking tie-in readings and then subtracting the variations from the field data.

Details regarding the instrumentation specifications can be found in Appendix B.

HORIZONTAL LOOP ELECTROMAGNETIC SURVEY

The logistical details of the H.L.E.M. survey are as follows:

Survey Dates:	24 to 26 June, 1982
Personnel:	K. Lai, A. Millholland
Instrumentation:	Apex Parametrics Max-Min II
Frequency:	3555 Hz
Reading Interval:	25m
Parameters Read:	% In-phase and % out-phase

...../5

The % In-phase and % Quadrature results are plotted in profile form on a grid map at a scale of 1:2000. The profile scale is 1 cm = 10%.

Details regarding the Max-Min II system are to be found in Appendix C.

INTERPRETATION

VLF Survey

Except for three (3) VLF anomalies of possible bedrock origin, the rest are obvious swamp edge and/or overburden responses. The three anomalies are discussed below:

Zone A

L1E, 0+70N	L5E, 1+70N
L2E, 1+00N	L6E, 2+25N
L3E, 1+20N	L7E, 2+25N
L4E, 1+30N	L8E, 2+10N

This zone is likely to represent formational anomaly of marginal conductivity. This could possibly be a hidden mineralized shear zone within the prophyry. Geologic mapping has indicated the presence of red altered foliated porphyry. Geologic mapping has indicated the presence of red altered foliated porphyry containing specular hematite just 25m south of the anomaly on Line L3E. Part of this zone also corresponds to high magnetic response.

Zone B

L9E, 190S
L8E, 210S

This zone corresponds to a trend of magnetic high and may represent minor disseminated sulfide within a cross-cutting diabase dyke. But it is also possible that it represents

...../6

the mineralized portion of the shear zone observed around L5E, 0+60S.

ZONE C

L11E, 3+20S
L10E, 3+00S

At first glance, this anomaly seems to be a swamp edge response. However, the north edge of this anomaly happened to coincide with a 'magnetic low' similar to that of the Lyall-Biedelman showing. The said magnetic low occurs just north of the swamp on high ground.

MAGNETOMETER SURVEY

The magnetic relief over the property is very moderate. Background appears to be around 59400γ.

The southern half of the grid is dominated by a few strong magnetic highs which probably correspond to several cross-cutting diabase dykes. The dykes have different strikes but three general directions are noted, they are 070°(A-A'), 090° (B-B') and 130° (C-C').

Anomaly D-D'

L4E, 125N
L5E, 175N
L6E, 225N

The relatively weak anomaly corresponds to the Zone A, VLF anomaly and suggest possibly the presence of pyrrhotite within the Conductive zone.

From an exploration point of view, the most significant observation and of the greatest interest to us is that the auriferous mineralization in the red feldspar porphyry is interpreted to be associated with 'magnetic low'. Zone I is

...../7

the Lyall-Biedelman showing.

Using this simple association perhaps a bit over-simplified and, uncoventional, as the basis for selecting favorable targets for further follow-up work and drilling; five other magnetic low areas are identified.

ZONE II

L4E, 2+75S
L5E, 2+25S

Similar geologic setting as the Lyall-Biedelman showing across the other side of the lake. It is an island of magnetic low at a magnitude of about 200 γ below its immediate surroundings.

Zone III

L8E, 3+00S

This is an area of relatively shallow overburden and fine disseminated sulfide was observed in the feldspar porphyry during our VLF survey.

Zone IV

L11E, 3+00S

This zone is located at the flank of a VLF anomaly near a swamp. The zone may simply be a reflection of the overburden effect.

Zone V

L11E, 2+10S

This zone seems to be on the same trend as Zone III and is located on high ground.

...../8

Zone VI

L1E, 1+75S
L2E, 1+75S
L3E, 1+50S
L4E, 1+25S

This is a very interesting area as it is comprised of some sheared feldspar porphyry and should definitely be investigated.

Before any follow-up geophysical work commences, a brief geological examination is recommended for each zone in order to aid future interpretation and exploration effort.

H.L.E.M. Survey

The horizontal loop electromagnetic results on our Halcrow Township property is essentially featureless. With the exception of one response at the southwest corner which probably correspond to conductive overburden in the swamp.

Apart from this the disseminated sulfides in the vicinity of Lyall-Biedelman showing did not give any H.L.E.M. response.

RECOMMENDATIONS

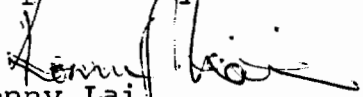
It is felt that the V.L.F. anomalies may represent zones of disseminated sulfides within the sheared feldspar porphyry that could possibly be associated with gold mineralizations.

Special attention should be put on the 'magnetic low' areas since it was observed that Lyall-Biedelman showing is associated with Zone I 'magnetic low'.

...../9

Induced polarization is strongly recommended as a further follow-up geophysical survey to detect any associated disseminated sulfides. I.P. survey should define and provide sufficient geophysical criteria for selecting favorable drilling targets in the future. Acquisition of additional ground toward the East and South-East Corner should be considered if I.P. survey returned favorable results.

Respectfully submitted,



Konny Lai
Geologist
Sulpetro Minerals Limited

REFERENCES

Beecham, A.W. (1981) — Geological Mapping, Halcrow Township Claims. Assessment Report, Sulpetro Minerals Ltd.

Donovan, J.F. (1968) — Geology of Halcrow-Ridout Lakes Area. Geol. Rep. 63, Ontario Dept. Mines.

Rickably, H.C. (1934) — Geology of Swayze Gold Area in 43rd Annual Rep. Ontario Dept. Mines., Vol. XLll Pt. III.

Thurston, P.C. (1977) — Geology of the Chapleau Area. District of Algoma, Sudbury and Cochrane; Geoscience.

APPENDIX A

The RADEM receives any 7 of 17 VLF communication broadcast stations with selection by means of a switch. These stations are positioned throughout the world and broadcast steadily except for maintenance periods of usually of ½ to 1/3 days per week. The usable range of these stations varies widely with power and transmission conditions but is usually between 1000 and 5000 miles.

A station should be selected that is located in the same direction as the regional strike. In this survey stations at Cutler, Maine and Seattle, Washington were used.

In the field, three measurements could be made viz:

(a) Dip-angle of resultant field
(b) Out-of-phase measurement
(c) Horizontal component of the field strength

In this survey only the dip-angle of resultant field was measured.

The dip-angle of resultant field is the angle of inclination, measured from the horizontal in degrees, of the direction of the resultant VLF field.

To measure the dip-angle the RADEM is first held with the instrument face horizontal and rotated until a null is obtained (visual minimum on the field strength meter and audio null). This aligns the RADEM with the direction of the VLF field. The RADEM is then held vertically and tilted from right to left until another null is obtained. The instrument is held steady in this null position and the dip-angle read from the inclinometer.

The VLF-EM method is capable of locating disseminated type bodies, small sulphide occurrences, fault and shear zones.

APPENDIX B

MODEL GM-122

SPECIFICATIONS

Range:	20,000 to 99,999 in 12 ranges
Accuracy:	± 1 γ through operating temperature range
Sensitivity:	1 γ
Gradient Tolerance:	600 γ/ft.
Power:	12 "D" cells
Power Consumption:	< 50 Joules (Wsec) per reading
Polarizing Power:	0.8 A @ 13.5 V for 1.5 sec. (3 second cycle) 0.8 A @ 13.5 V for 3 sec. (6 second cycle)
Number of Readings with 1 Battery Set:	2,000 - 10,000 depending on type of batteries
Frequency of Readings:	1 every 3 seconds 1 every 6 seconds
Controls:	Pushbutton switch Range Selection switch - Slide switch for 3 and 6 sec. located on P/C Board
Output:	5 digit incandescent filament readout
Indicators:	LED point Lock Indicator - last three digits of the display blanked off when phaselock not achieved Segment Function Indicator - all segments light up to permit visual inspection of the display function

Mechanical:

Instrument:	Dimensions	7" X 3.5" X 11" (18 cm X 9 cm X 28 cm)
	Weight	- 8 lbs (3.6 kg) including batteries
Sensor:		Omnidirectional noise cancelling toroidal sensing head
	Dimensions	- 4 7/8" (12 cm) diameter - 4 3/8" (11 cm) height
	Weight	- 3 lbs (1.4 kg)
Ambient Conditions:		Operating Temperature Range - -40°F to 131°F (-40°C to 55°C)
		Relative Humidity - 0 to 100%
Environmental:		Instrument and sensor case made of high impact plastic

(ii) Magnetometer Instrument Data

General Description, Principle of Operation

If a proton rich fluid such as Kerosene, jet fuel, heptane, etc. is placed into a magnetic field the protons will align along the magnetic field vector. The magnetic field is induced in the sensor upon depressing the push-button. Then this field is suddenly removed. Protons which behave as elementary gyroscopes will start precessing around the remaining magnetic field that of the earth. The precession frequency is directly proportional to the magnetic field of the earth. The magnetometer counts this frequency, divides it by the appropriate constant to obtain a reading in gammas and displays the reading in the form of a 5 digit number.

APPENDIX C

The Maxmin II is a two-man continuously portable EM system. It is designed to measure both the vertical and horizontal in-phase (IP) and quadrature (QP) components of the anomalous field from electrically conductive zones.

The plane of the transmitter (Tx) is kept parallel to the mean slope between the transmitter and receiver (Rx) at all times. The Maxmin II is a horizontal loop (HL) system when the receiver measures anomalous components perpendicular to the mean slope betwe the coils. It is a minimum coupled (Min C) system when the receive measures anomalous components parallel to the mean slope between the coils.

APEX MAXMIN II EM SYSTEM SPECIFICATIONS

OPERATING FREQUENCIES:	222, 444, 888, 1777 and 3555Hz.
MODES OF OPERATION:	a) Transmitter coil plane and receiver coil plane horizontal (Max-coupled; Horizontal loop mode). Used with reference cable.
	b) Transmitter coil plane horizontal and receiver coil plane vertical (Min-coupled mode). Used with reference cable.
	c) Transmitter coil plane vertical and receiver coil plane horizontal, tilte for null in the receiver output. (Vertical loop mode). Used without reference cable, in parallel lines.
COIL SEPARATIONS: (modes a and b)	25, 50, 100, 150, 200 and 250mm (MM II) or 100, 200, 300, 400, 600 and 800 ft. (MM II F). Coil separations in mode c) not restricted to fixed values.
PARAMETERS MEASURED:	a) In-Phase and Quadrature components of the secondary field in modes a) and b).
	b) Tilt-angle of the total field in mode c).

2/.....

READOUTS:	a) Automatic, direct readout on 90mm (3 edgewise meters in modes a) and b). nulling or compensation necessary. b) Tilt-angle and null on 90mm (3½") edgewise meters in mode c).
CALE RANGES:	In-phase: ± 20% normal, ± 100% by switc Quadrature: ± 20% normal, ± 100% by swi Tilt: ± 75% slope Null: Null sensitivity adjustable by separation switch.
READING REPEATABILITY:	± ½% to ± % normally, depending on conditions, frequency and coil separatio used.
TRANSMITTER DIPOLE MOMENT:	150 Atm^2 @ 222Hz, 150 Atm^2 @ 444Hz, 90 A @ 888Hz, 40 Atm^2 @ 1777 Hz and 30 Atm^2 @ 3555 Hz.
RECEIVER BATTERIES:	9V transistor radio type, 4 batteries Life: approx. 35 hrs. continuous duty (alkaline; .5Ah), less in cold weather.
TRANSMITTER BATTERIES:	a) 12V7.5Ah Gel-Cell rechargeable batteries (2 x 6V in series) b) 18V21Ah alkaline lantern batteries (3 x 6V in series). Transmitter current drain 0.5A to 2.2A depending on operating frequency.
REFERENCE CABLE:	Light weight, special teflon cable for minimum friction. Unshielded. All reference cables option at extra cost. Please specify.
	Built-in intercom system for voice communication between receiver and trans-mitter operators.
INDICATOR LIGHTS:	Built-in signal and reference warning lights to indicate erroneous readings.
OPERATING TEMPERATURE:	$-40^{\circ}C$ to $+ 60^{\circ}C$ ($-40^{\circ}F$ to $+ 140^{\circ}F$)
WEIGHT OF RECEIVER UNIT:	6kg (13 lbs.)
WEIGHT OF TRANSMITTER UNIT:	Typically 65 kg (143 lbs.), depending on quantities of reference cable and batteri included. Shipped in two shipping/field cases.
VOICE LINK:	Built-in intercom system for voice communication between receiver and trans-mitter operators.

APPENDIX D

DECLARATION

This is to state that I, Konny K. Lai hold a Bachelor of Science Degree, Honours in geological Sciences (1980) from McGill University in Montreal. And that I have no personal or financial interest in the property covered by this report.

I am currently employ by Sulpetro Minerals Ltd.

I personnally carried out and supervised part of the work outlined in this report.

Konny Lai
Geologist
Haileybury, Ontario.
21 July 1982.

2.5190

Ministry of Natural Resources
Ontario

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

#410

The Mining

41010NW0095 2.5190 HALCROW

900

Type of Survey(s)
Geophysical Surveys

Township
Halcrow Township

Claim Holder(s)
Sulpetro Minerals Ltd.

Prospector's Licence No.
T-501

Address
Box 1207 Haileybury, Ont. P0J 1K0 or 2161 Yonge St. Suite 301 Toronto, Ont. M4S 3A5

Survey Company
Sulpetro Minerals Ltd.

Date of Survey (from & to): 21 06 82 (Day / Mo. / Yr.) — 27 06 82 (Day / Mo. / Yr.)

Total Miles of line Cut

Name and Address of Author (of Geo-Technical report)
Konny Lai 137 Silver Springs Blvd., Scarborough, Ont. M1V 1M8.

Credits Requested per Each Claim in Columns at right

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

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

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

Expenditures (excludes power stripping)

Type of Work Performed

Performed on Claim(s)

Calculation of Expenditure Days Credits

Total Expenditures $ ÷ 15 = Total Days Credits

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

Mining Claims Traversed (List in numerical sequence)

Mining Claim Prefix	Mining Claim Number	Expend. Days Cr.
P	565751	60
	565752	60
	565753	60
	565754	60
	565775	60
	565776	60
	565777	60
	565778	60
	565779	60

Mining Claim Prefix	Mining Claim Number	Expend. Days Cr.

RECEIVED
NOV - 8 1982
MINING LANDS SECTION

RECORDED
NOV 4 1982
Receipt No.....

Total number of mining claims covered by this report of work. 9

For Office Use Only

Total Days Cr. Recorded	Date Recorded	Mining Recorder
540	Nov 4/82	
	Date Approved as Recorded 83.06.27	Branch Director, Mining Lands Branch

Date 2 Nov. 1982 — Recorded Holder or Agent (Signature) Konny Lai

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
Konny Lai 137 Silver Springs Blvd., Scarborough, Ontario M1V 1M8.

Date Certified: 23rd July, 1982.

Certified by (Signature) Konny Lai

1362 (81/9)

Ministry of Natural Resources
Ontario

Geotechnical Report Approval

File 2.5190

Jan 27/83

Mining Lands Comments

☑ To: Geophysics Mr Barlow

Comments

☑ Approved ☐ Wish to see again with corrections | Date Feb 8/83 | Signature

☐ To: Geology - Expenditures

Comments

☐ Approved ☐ Wish to see again with corrections | Date | Signature

☐ To: Geochemistry

Comments L.D.

☐ Approved ☐ Wish to see again with corrections | Date | Signature

☐ To: Mining Lands Section, Room 6462, Whitney Block (Tel: 5-1380)

410

1982 11 19 2.5190

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

Dear Sir:

We have received reports and maps for a Geophysical (Electromagnetic and Magnetometer) Survey submitted under Special Provisions (credit for Performance and Coverage) on Mining Claims P 565751 et al in the Township of Halcrow.

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

Yours very truly

E.F. Anderson
Director
Land Management Branch

Whitney Block, Room 6450
Queen's Park
Toronto, Ontario
M7A 1W3
Phone: 416/965-1380

DW:sc

cc: Sulpetro Minerals Limited
Haileybury, Ontario

cc: Konny Lai
Scarborough, Ontario

SULPETRO MINERALS LIMITED

Suite 301, 2161 Yonge Street
Toronto, Ontario M4S 3A6
Telephone: (416) 482-5422 Telex 06-23794

P.O. Box 1207 Haileybury,
Ontario.

12 November 1982.

Mr. E.F. Anderson
Mining Lands Section
Ministry of Natural Resources
6450 Whitney Block
Queen's Park
TORONTO, Ontario

M7A 1W3

Dear Sir:

Please find enclosed two copies of a report describing Horizontal Loop EM, VLF and Magnetometer surveys on our Halcrow Township claims, Porcupine Mining Division, claims

P-565,751 -- P-565754
P-565,775 -- P-565779.

This work is being reported separately to the Porcupine Mining Recorder.

Sincerely,

A.W. Beecham
Senior Geologist

Copy: J.E. Cattell

Ontario

Ministry of Natural Resources

File _____

GEOPHYSICAL – GEOLOGICAL – GEOCHEMICAL TECHNICAL DATA STATEMENT

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

Type of Survey(s) Magnetics ; VLF-EM and HLEM

Township or Area Halcrow Township

Claim Holder(s) Sulpetro Minerals Ltd.

2161 Yonge St. , Suite 301, Toronto

Survey Company Same

Author of Report Konny K. Lai

Address of Author 137 Silver Springs Blvd. Scarboro.

Covering Dates of Survey 21 June 1982 to 27 June 1982
(linecutting to office)

Total Miles of Line Cut _____

SPECIAL PROVISIONS CREDITS REQUESTED

ENTER 40 days (includes line cutting) for first survey.

ENTER 20 days for each additional survey using same grid.

	DAYS per claim
Geophysical	
–Electromagnetic	40
–Magnetometer	20
–Radiometric	
–Other	
Geological	
Geochemical	

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

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

DATE: 27 july 1982 SIGNATURE: Konny Lai
Author of Report or Agent

Res. Geol. _____ Qualifications 2.4407

Previous Surveys

File No.	Type	Date	Claim Holder

MINING CLAIMS TRAVERSED
List numerically

(prefix)	(number)
P	565751
P	565752
P	565753
P	565754
P	565775
P	565776
P	565777
P	565778
P	565779

TOTAL CLAIMS 9

If space insufficient attach list

OFFICE USE ONLY

GEOPHYSICAL TECHNICAL DATA

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

Number of Stations VLF-1180 Magnetics-610, HLEM-553 Number of Readings VLF-11~~0~~ Mag.-610 HLEM-553

Station interval Mag.-25m, HLEM - 25m, VLF-12.5m Line spacing 100m

Profile scale Magnetics-N/A, VLF and HLEM- 1cm=10°

Contour interval VLF-10units, Magnetics-200γ

MAGNETIC

Instrument Barringer GM-122 Magnetometer

Accuracy – Scale constant ± 1γ

Diurnal correction method Regular Tie-in Readings

Base Station check-in interval (hours)

Base Station location and value L 2E; 5+25N, 59178γ

ELECTROMAGNETIC

Instrument Crone Radem , Apex Parametrics, Max-Min II

Coil configuration Transmitter-Dipolar Antenna, Receiver- Dip Angle. ~~HLEM- Co-Planar~~ -Horizontal Loop

Coil separation VLF-N/A HLEM-100m

Accuracy ± 1° HLEM- ± 1 %

Method: VLF - ☒ Fixed transmitter ☐ Shoot back ~~HLEM~~ ☐ In line ☐ Parallel line

Frequency VLF17.8 kHz-Cutler, Maine, USA . HLEM- 3555 Hz

Parameters measured VLF- Dip-angle. (specify V.L.F. station) HLEM- in-phase & out-of-phase component of secondary EM field in percentages.

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

2.5190

	HLEM	VLF	Mag.	
P.-565751	✓	✓	✓	
52	✓	✓	✓	
53	✓	✓	✓	
54	✓	✓	✓	
565775	✓	✓	✓	
76	✓	✓	✓	
77	½	~¼	~¼	- approved.
78	✓	✓	✓	
565779	✓	✓	✓	

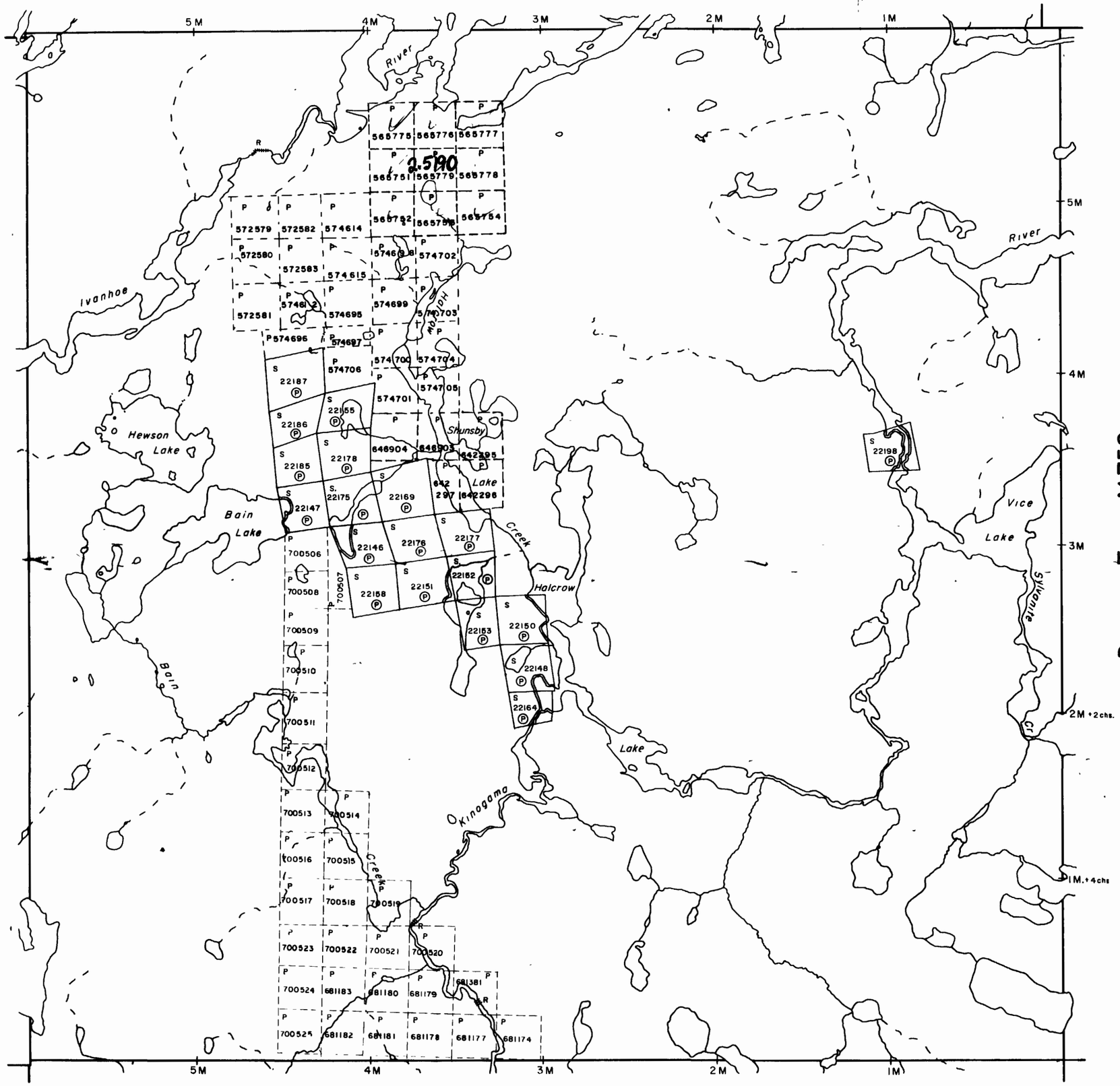
D.K.

Crockett Twp. - M.740

Lackner Twp. - M.975

Denyes Twp. - M.758

Tooms Twp. - M.1159



THE TOWNSHIP
OF

HALCROW

DISTRICT OF
SUDBURY

PORCUPINE
MINING DIVISION

SCALE: 1-INCH 40 CHAINS

LEGEND

PATENTED LAND	(P)
CROWN LAND SALE	C.S.
LEASES	(L)
LOCATED LAND	Loc.
LICENSE OF OCCUPATION	L.O.
MINING RIGHTS ONLY	M.R.O.
SURFACE RIGHTS ONLY	S.R.O.
ROADS	
IMPROVED ROADS	
KING'S HIGHWAYS	
RAILWAYS	
POWER LINES	
MARSH OR MUSKEG	
MINES	
CANCELLED	C.

NOTES

400' Surface Rights Reservation around all lakes and rivers.

PLAN NO. M.906

ONTARIO
MINISTRY OF NATURAL RESOURCES
SURVEYS AND MAPPING BRANCH

200

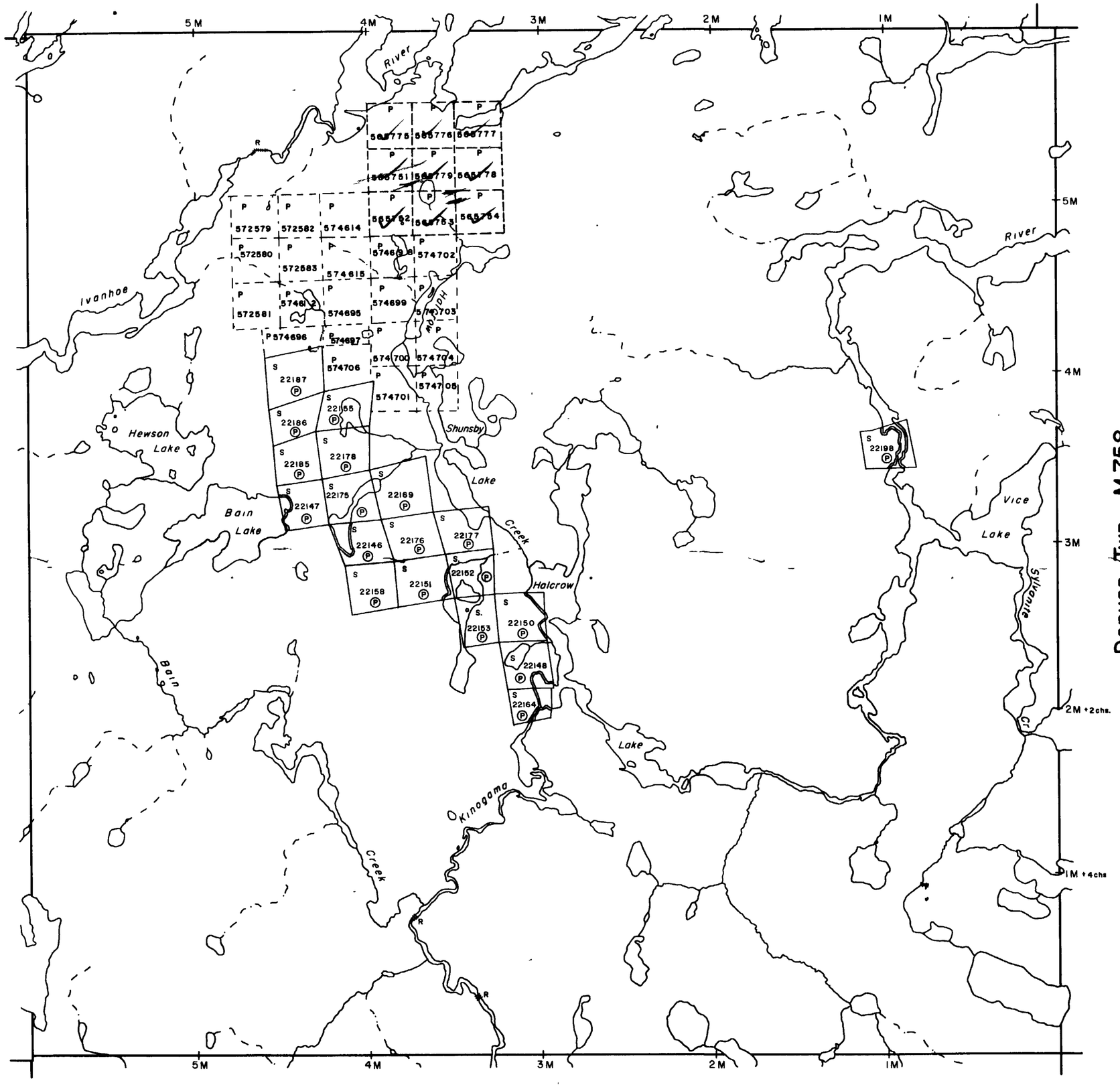
b k

Crockett Twp. - M.740

Lackner Twp. - M.975

Denyes Twp. - M.758

Tooms Twp. - M.1159



THE TOWNSHIP
OF

HALCROW

DISTRICT OF
SUDBURY

PORCUPINE
MINING DIVISION

SCALE: 1-INCH 40 CHAINS

LEGEND

PATENTED LAND	(P)
CROWN LAND SALE	C.S.
LEASES	(L)
LOCATED LAND	Loc.
LICENSE OF OCCUPATION	L.O.
MINING RIGHTS ONLY	M.R.O.
SURFACE RIGHTS ONLY	S.R.O.
ROADS	
IMPROVED ROADS	
KING'S HIGHWAYS	
RAILWAYS	
POWER LINES	
MARSH OR MUSKEG	
MINES	
CANCELLED	C.

NOTES

400' Surface Rights Reservation around all lakes and rivers

"MAP 2"

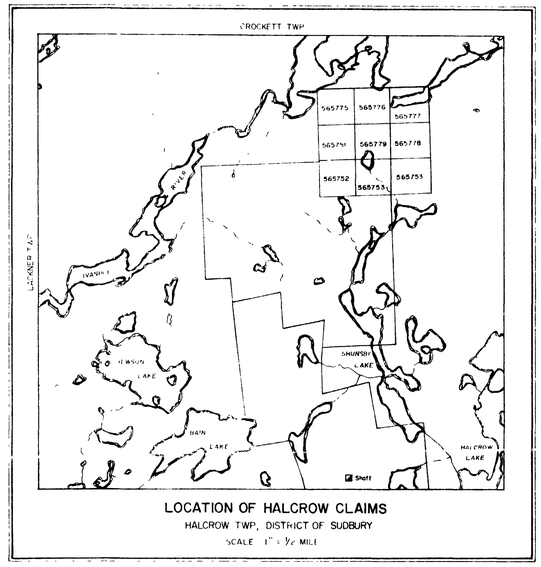
2.4306

PLAN NO. M.906

ONTARIO
MINISTRY OF NATURAL RESOURCES
SURVEYS AND MAPPING BRANCH

L0+00 Ivanhoe River L1+00E L2+00E L3+00E L4+00E L5+00E L6+00E L7+00E L8+00E L9+00E L10+00E L11+00E L12+00E

565775 565776 565777 565778 565779 565751 565752 565753 565774



LOCATION OF HALCROW CLAIMS
HALCROW TWP, DISTRICT OF SUDBURY
SCALE 1" = ½ MILE

Instrumentation: Barringer GM-122
Base Station Location: L2E, 5+25N
Base Station Value : 59,178γ
Datum subtracted : 59,000γ
Station interval: 25m.
Personnel: A. Millholland
Survey date: 21, 23, 27 June 1982.

EXPLANATION
- Lake edge
- Swamp
- Claim post, located
- Claim post, unlocated

N

GEOPHYSICAL ASSOCIATION OF CANADA
A. W. BLECHA
12/11/82
FELLOW

SULPETRO MINERALS LIMITED

HALCROW CLAIMS Halcrow Twp Northern Ontario

MAGNETOMETER SURVEY

1:2,000

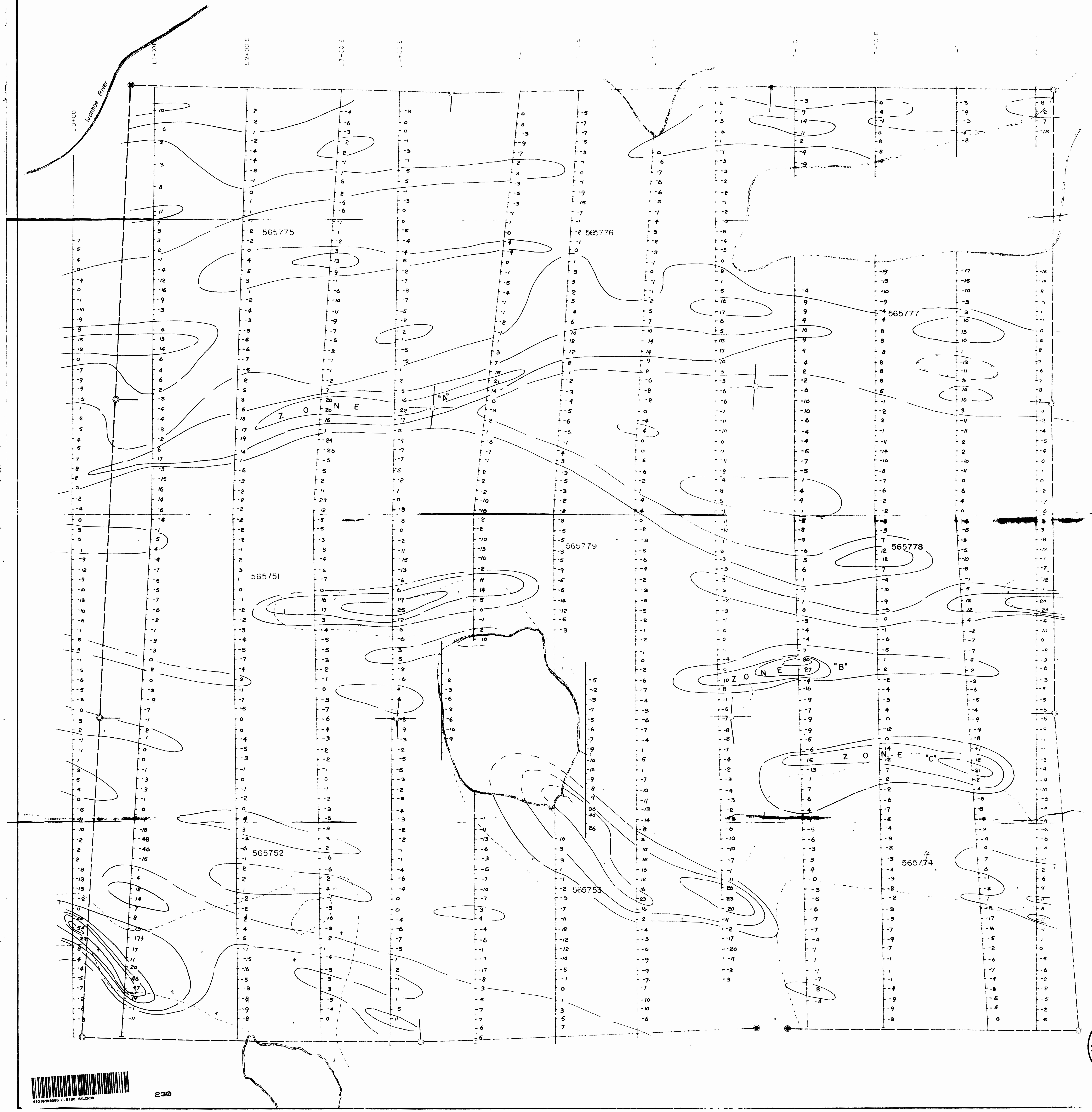
33811

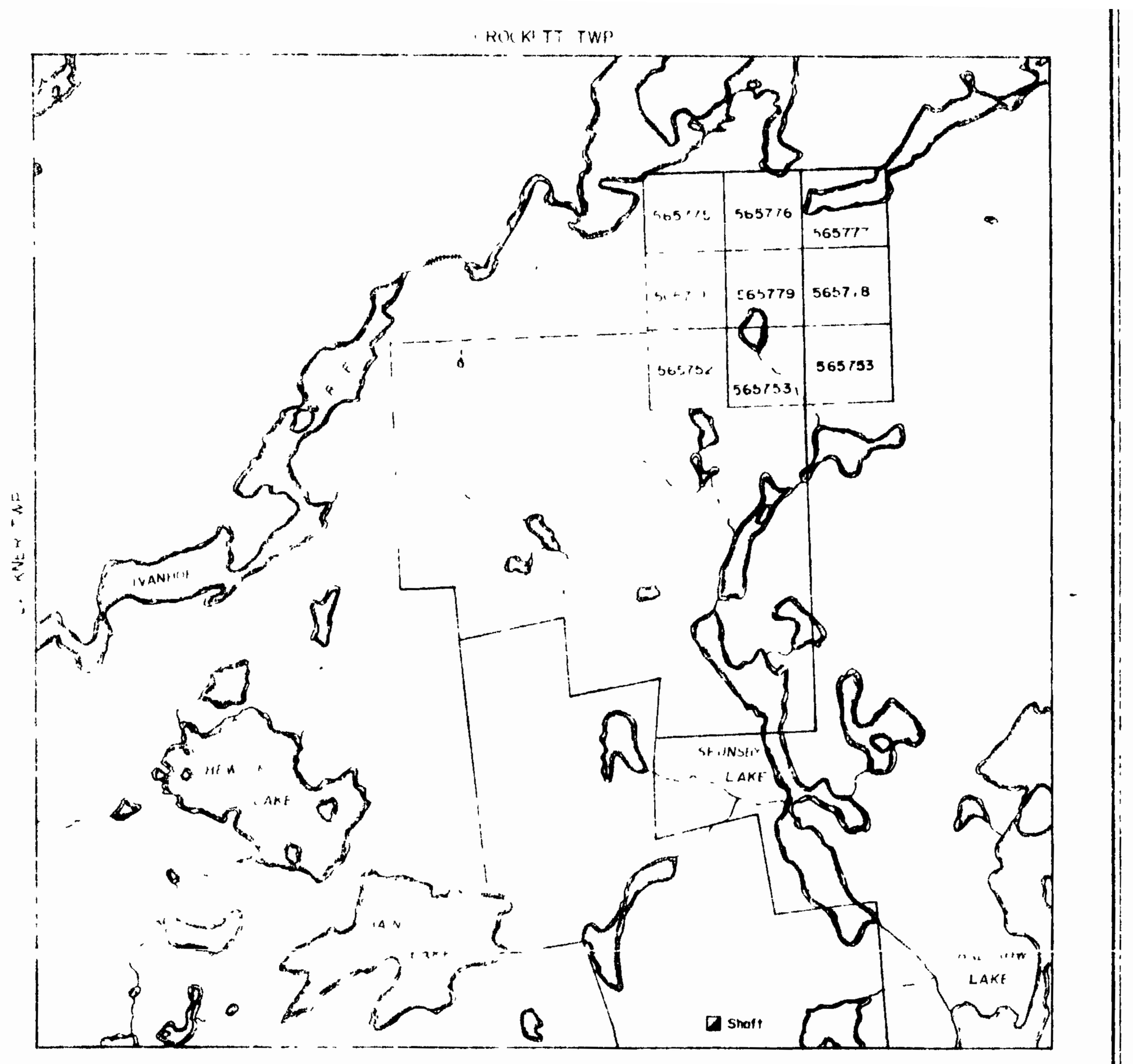
41 0/15

220

41010NW0005 2.5198 HALCROW

D 3190





LOCATION OF HALCROW CLAIMS

HALCROW TWP, DISTRICT OF SUDBURY

Instrumentation: Crone Radem
Transmitter Station: Cutler, Maine, U.S.A.
Frequency: 17·8 Hz
Station Interval: 12·5m
Contour interval: 10 units
Personnel: K. Lai
Survey Dates: 21, 23, 27 June 1982.

EXPLANATION

Lake edge
Swamp
Claim post, located
Claim post, unlocated

ASSOCIATION OF GEOLOGICAL CANADA · FELLOW · A. W. BEECHAM 12/11/82

A. W. Beecham

SULPETRO MINERALS LIMITED

HALCROW CLAIMS Halcrow Twp Northern Ontario

VLF FRASER PLOT

1:2,000

3381

41 I/15

2.5190

Ivanhoe River

L0+00 L1+00E L2+00 E L3+00 E L4+00 E L5+00 E L6+00E L7+00E L8+00E L9+00 E L10+00 E L11+00E L12+00E

565775 565776 565777 565751 565779 565778 565752 565753 565774

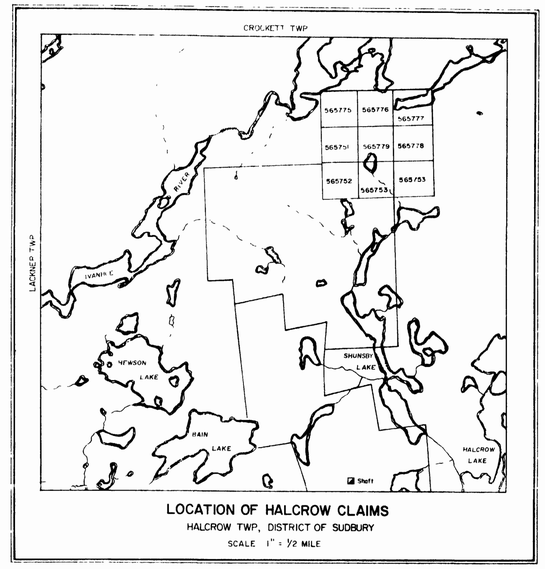
Base Line 0-00

Instrumentation · Crone Radem
Transmitter Station: Cutler, Maine, U.S.A.
Frequency : 17·8 kHz.
Line Interval : 100 m.
Station Interval · 12·5 m. and 25 m.
Profile Scale: 1 cm. = 10%
Personnel : K.Lai
Survey Dates : June 21-24/27, 1982

(−) (+)

EXPLANATION

- Lake edge
- Swamp
- Claim post, located
- Claim post, unlocated



LOCATION OF HALCROW CLAIMS
HALCROW TWP., DISTRICT OF SUDBURY
SCALE 1" = ½ MILE

N

GEOLOGICAL ASSOCIATION OF CANADA
A. W. BEECHAM
FELLOW

SULPETRO MINERALS LIMITED
TORONTO, CANADA

HALCROW CLAIMS Halcrow Twp
Northern Ontario

V.L.F. SURVEY - DIP ANGLE

SCALE 1:2,000

DRAWING NO. 33811

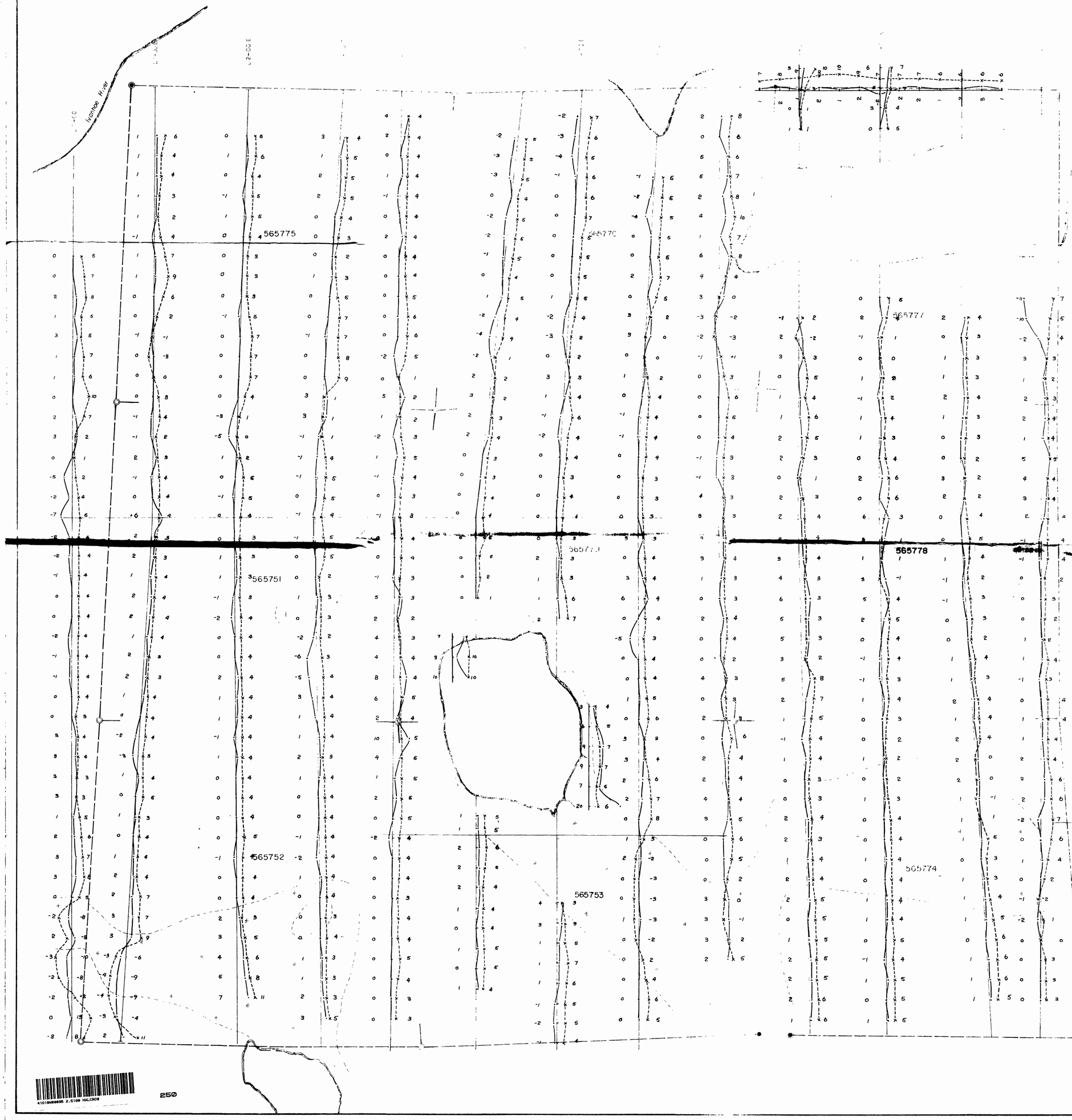
SHEET NO. 1 of 1

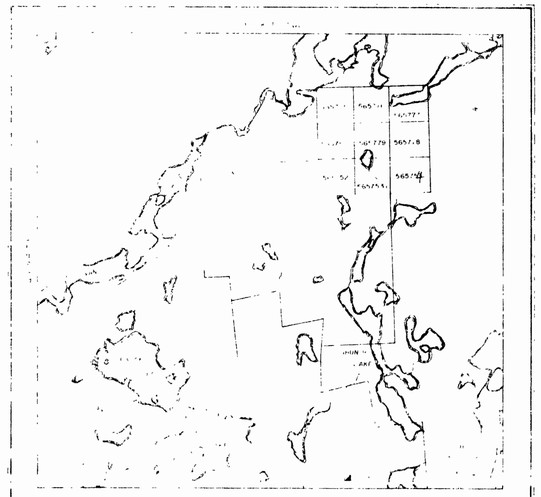
REPORT NO. N.S. 41 0/15

240

41018NW8695 2.5198 HALCROW

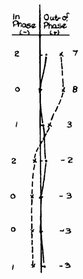
5190





LOCATION OF HALCROW CLAIMS

Instrumentation: Apex Parametrics Max-Min II
Frequency: 3555 Hz.
Coil Separation: 100 m
Station Interval: 25 m.
Line Spacing: 100 m.
Profile Scale: 1 cm = 10%
I.P. ————
O.P. x---x---x
Personnel: K.Lai, A.Millholland
Survey Dates: June 24-26, 1982.



EXPLANATION

- Lake edge
- Swamp
- Claim post, located
- Claim post, unlocated

GEOLOGICAL ASSOCIATION OF CANADA
A.W. BECHAM
12/11/82
FELLOW

SULPETRO MINERALS LIMITED

HALCROW CLAIMS Halcrow Twp. Northern Ontario

H.L.E.M. SURVEY - 3555 Hz.

1:2,000 | 33811 | 41 0/15

250

2.5190 HALCROW

2.5190

SUMMARY - GARNET GOLD SHOWINGS. 2.17526

THE PROPERTY IS COMPRISED OF 2 MINING CLAIMS P1190382,(12 UNITS-192 HA.) AND P1198784,(16 UNITS-256 HA.) STAKED IN THE NORTHEAST QUADRANT OF GARNET TOWNSHIP.
(RIDOUT PROVINCIAL SERIES N.T.S.410/NE., 82° 31' LONGITUDE,48° 45' LATITUDE.)
(GARNET CLAIM MAP NO. G-1130)

THE AREA LIES WITHIN A GENERALLY WEST-NORTHWEST TRENDING AND STEEPLY DIPPING SEQUENCE OF THOLEIITIC METABASALTS THAT ARE MASSIVE TO PORPHYRITIC IN TEXTURE.

RESEARCHING THE GARNET ASSASSMENT FILES IN THE TIMMINS ASSESSMENT OFFICE INDICATES THAT THERE WAS NO WORK DONE IN THE NORTH END OF OUR CLAIM BLOCK.

IN THE LATE FALL OF 1994 WHILE PROSPECTING IN GARNT TOWNSHIP A QUARTZ CARBONATE SHEAR ZONE WAS UNCOVERED BY MY PARTNERS AND I IN AN OLD E.B.EDDY GRAVEL PIT. THE SHEAR ZONE WAS TRACED FOR APPROX. ONE HUNDERED AND FIFTY FEET,NUMEROUS QUARTZ VIENS WERE ALSO EXPOSED A ALTERED PHORPHY DIKE WAS EXPOSED WITH IN THIS SYSTEM CHIP SAMPLES WERE TAKEN AND SENT OUT FOR ASSAY, THE VALUES RAN FROM .04 OZ/TON AU TO .115 OZ/TON AU. NO FURTHER EXPLORATION WAS DONE DUE TO THE LACK OF FUNDING - (CLAIM NO. P1198784) SEE ATTACHED SKETCH FOR MORE DETAIL.

APPROX. ONE MILE TO THE NORTHWEST ON MINING CLAIM P1190382,ON THE EAST SIDE APPROX TWO HUNDERED FEET EAST OF THE DORE LOGGING ROAD A QUARTZ CARBONATE ZONE WAS UNCOVERED AND SAMPLED FOR GOLD, SAMPLE RAN .105 OZ AU/TON.

FURTHER EXPLORATION IS WARRANTED IN THE FORM OF,

A - MECHANICAL STRIPPING ON BOTH SHOWINGS,(JOHN DEER 690B EXCAVATOR.)
B - WASHING STRIPPED AREAS BY MEANS OF A HIGH PRESSURE POWER WATER PUMP-(WAJAX MK 3)
C - HAND TRENCHING.
D - DRILLING WITH GAS PLUGGER - (BLASTING)
E - SAMPLING.
F - DETAIL LINE CUTTING (GRID), MAGNETOMETER SURVEY, VLF-EM SURVEY OVER THE SHOWINGS IF WARRENTED AT A LATER DATE.
G - ADDITIONAL PROSPECTING WITH IN THE CLAIM DLOCKS.

INTRODUCTION

THE GARNET GOLD SHOWINGS ARE LOCATED IN THE NORTHEAST QUADRANT IN GARNET TOWNSHIP IN THE SOUTHERN PART OF THE SWAYZE GREENSTONE BELT OF NORTHEASTERN ONTARIO.
THIS AREA WAS FIRST PROSPECTED FOR IORN IN THE EARLY 1900'S AND THEN BASE METALS IN THE 1920'S.
DURING THE 1930'S ATTENTION SHIFTED TO GOLD AND THE SWAYZE BELT WAS THE SCENE OF CONSIDER PROSPECTING, EXPLORATION AND DEVELOPMENT FOR PRECIOUS METALS.
THERE HAS BEEN VIRTUALLY NO EXPLORATION ACTIVITY FOR GOLD IN THIS AREA FROM THE 1940'S UNTIL THE MID 80'S WHEN WESTERN PACIFIC ENERGY WAS QUITE ACTIVE TO THE SOUTH AND WEST OF OUR CLAIM BLOCKS.

WHILE PROSPECTING IN GARNET TOWNSHIP IN THE LATE FALL OF 1993 AND MID SUMMER OF 1994 ON THEN MINING CLAIM (P1190380,) RESTAKED NOW MINING CLAIM (1198784) A QUARTZ CARBONATE SHEAR ZONE WAS UNCOVERED BY MEANS OF HAND STRIPPING IN A OLD E.B.EDDY GRAVEL PIT.
CHIP SAMPLES TAKEN FROM THIS NOW EXPOSED AREA RETURNED GOLD VALUES OF UP TO .115 OZ/TON AU.

THE GEOLOGY OF THE CHARACTERISTICS OF GOLD DEPOSITS IN THE SUPERIOR PROVINCE OF THE CANADIAN SHIELD IN GEOLOGY OF THE CANADIAN GOLD DEPOSITS, CAN. INST.MIN. MET. SPECIAL VOL.24,P.211-232, BY HODGSON,C.J. AND MACGEEHAN P.J. (1982).
GEOLOGY OF THE CUNNINGHAM-GARNET AREA, SUDBURY DISTRICT, ONTARIO DEPT. MINES ANN.
REPORT VOL. 51,PT.7.
BY MEEN V.B.(1944).

PROPERTY,LOCATION AND ACCESS TOPOGRAPHY AND VEGETATION

PROPERTY

THE PROPERTY CONSIST OF 2,UNPATENTED MINING CLAIMS (P1190382,12-UNITS-192,HA.)AND(P1198784,16-UNITS-256,HA.) IN THE NORTHEAST QUARDENT OF GARNET TOWNSHIP. (RIDOUT PROVINCIAL SERIES N.T.S.410/NE. 82° 31'LONGITUDE AND 48° 45' LATITUDE.) GARNET CLAIM MAO NO.G-1130, (PORCUPINE MINING DIVISION)

LOCATION AND ACCESS

THE LOCATION OF THE GARNET GOLD SHOWINGS IS LOCATED IN THE NORTHEAST QUARDENT OF GARNET TOWNSHIP IN THE PORCUPINE MINING DIVISION.
AIR DISTANCE APPROX. 73 MILES-(115,KILOMETERS) FROM TIMMINS ONTARIO TO THE CLAIM DLOCK IN GARNET TOWNSHIP.
ROAD DISTANCE APPROX. 170 KILOMETERS,90 KILOMETERS WEST OF TIMMINS ONT. VIA HIGHWAY 101 TO THE FOLEYET TIMBER LOGGING ROAD, 10 KILOMETERS EAST OF THE TOWN OF FOLEYET. YOU THEN TRAVEL SOUTH ON A (WELL MAINTAINED)GRAVEL LOGGING ROAD FOR APPROX. 80 KILOMETERS TO GARNET TOWNSHIP. APPROX 4 KILOMETERS SOUTHEAST OF THE NORTH BOUNDRY OF GARNET TOWNSHIP YOU WILL INTERSECT THE MAIN E.B.EDDY LOGGING ROAD. AT THIS POINT YOU TURN LEFT AND TRAVEL APPROX.1 KILOMETER NE AND ON THE WEST SIDE OF THE E.B.EDDY LOGGING ROAD YOU WILL SEE A LARGE ABANDED GRAVEL PIT.
THIS WILL PUT YOU IN THE CENTRE OF OUR CLAIM BLOCK AND THE AU SHOWING ON MINING CLAIM (P1198784.)

TOPOGRAPHY AND VEGATATION

THE WAKAMI RIVER FORMS THE MAIN TOPOGRAPHIC FEATURE OF THE AREA. THE WINDING COURSE OF THE RIVER TRENDS FROM THE NORTHWESTERN CORNOR OF THE CLAIM BLOCK.
HILLY AREAS WITH A MAXIMUM RELIEF OF 160 FEET OCCUR IN AREAS TO THE SOUTH. FLANKING AREAS ARE LARGELY COVERED TO COMPLETELY COVERED BY PLEISTOCENE OUTWASH DEPOSITS OF SAND AND GRAVEL AND BY HOLOCENE DEPOSITS OF THE WAKAMI RIVER SWAMP ACCUMULATIONS.

IN ABOUT THE 1900 A FOREST FIRE BURNT OVER MOST OF THE AREA , LEAVING SMALL STANDS OF LARGE RED PINE AND JACKPINE AND IN SWAMPY AREAS LARGE CEDARS.
IN THE EARLY 1990s E.B.EDDY FOREST LOGGING COMPANY HARVESTED POCKETS OF MATURE TIMBER TO THE EAST AND NORTH OF OUR CLAIM BLOCK WITH APPROX. 50% TO THE NORTH ON OUR CLAIM BLOCK REMAINS UNCUT OF MATURE WHITE SPRUCE AND POPULAR.
THE REFORESTED AREAS CNSIST OF JACK PINE AND SPRUCE PLANTATIONS.

PREVIOUS WORK

IN A REPORT FOR WESTERN PACIFIC ENERGY CORP.DATED JUNE 1995, L.D.S. WINTER OUTLINED A DETAILED HISTORY OF THE PREVIOUS AND CURRENT WORK (UP TO 1986)IN THE AREA.

THE AREA WAS MAPPED BY V.G.MEEN IN 1941, FOR THE ONTARIO DEPT. OF MINES AND REMAPPED IN 1977 BY G.M.SIRAGUSA OF THE ONTARIO GEOLOGICAL SURVEY.

INCO LTD. DRILLED 5 HOLES TO THE SOUTH OF OUR CLAIM BLOCK IN 1966 IN SEARCH FOR BASE METALS.

IN NOVEMBER 1984, L.D.S.WINTER AND R.POULIN DID A RECONNAISSANCE GEOLOGICAL SURVEY TO THE NORTH AND WEST OF OUR CLAIM BLOCK FOLLOWED BY AN AIRBORN GEOPHYSICAL SURVEY (VLF AND MAG) BY TERRAQUEST LTD. IN DECEMBER 1984 FOR WESTERN PACIFIC ENERGY CORP.

IN OCTOBER OF 1995 TWO GRIDS WERE CUT ON THE SOUTH END AND TO THE SOUTH OF OUR CLAIM BLOCK.
AN EAST GRID EAST OF THE DORE LOGGING ROAD AND A WEST GRID, WEST OF THE ROAD FOR A TOTAL OF 56.2 MILES OF LINE.

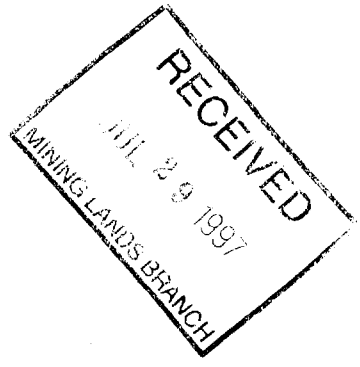
IN 1985 GROUND MAGNETOMETER, VLF AND SELF POTENTIAL SURVEYS WERE CARRIED OUY OVER PORTIONS OF THE GRID.
(L.D.S.WINTER, APRIL 1986.)

DURING THE WINTER OF 1985-86 WESTERN PACIFIC ENERGY CORP. CARRIED OUT A DIAMOND DRILLING PROGRAM OF 13 HOLES TOTALLING 5630 FEET.
ASSAYED MINERALIZED CORE INDICATED NO ECONOMIC GRADES OF AU MINERALIZATION WERE INTERSECTED.

TIMMINS FILES

CANADIAN NICKEL CO. LTD. GARNET TOWNSHIP, (FILE NO.T-2079)

WESTERN PACIFIC ENERGY CORP., (FILE NO.T-2969)



REGIONAL GEOLOGY

GARNET TOWNSHIP IS LOCATED IN THE SOUTH-CENTRAL SECTION OF THE SWAYZE GREENSTONE BELT WHICH IS AN ARCUATE ZONEEXTENDING FROM KUKATUSH, SOUTHWEST OF TIMMINS,SOUTH-WEST TO TOOMS TOWNSHIP WITH A SOUTHERN ARM EXTENDING EAST AND EAST-SOUTHEAST TO GOGAMA.THROUGH GARNET AND CUNNINGHAM TOWNSHIPS THE FORMATIONS ARE COSIDERED TO FACE NORTH SUGGESTING THIS MAY BE THE SOUTHERN LIMB OF A MAJOR SYNCLINORIUM OUTLINED BY THE GREENSTONE BELT. THE GREENSTONE BELT IS SURROUNDED ON ALL SIDES BY ROCKS OF GRANITOID COMPOSITION.

THE SOUTHERN ARM OF THE SWAYZE GREENSTONE BELT EXTENDS FOR A STRIKE LENGTH OF AT LEAST 100 KM. AND CONSISTS OF METAMORPHOSED THOLEIITIC BASALTS, CLASTIC METASEDIMENTS AND CHEMICAL SEDIMENTS REPRESENTED BY CHERT AND IORN FORM-ATION. MAFIC INTRUSIVE ROCKS ARE COMMONLY FOUND SPATIALLY ASSOCIATED WITH THE METAVOLCANICS AND LOCALLY BODIES OF SERPENTINIZED PERIODOTITE ARE ALSO PRESENT. SOME SMALL PLUTONS OF GRANITOID ROCKS INTRUDE THE GREENSTONE AND LAMPROPHRE DIKES HAVE BEEN REPORTED.

THE DOMINANT ROCK TYPE ON THE SOUTHERN LIMB OF THIS METAVOLCANIC BELT IS METAMORPHOSED THOLEIITIC BASALT WHICH TRENDS EAST-SOUTHEAST ACROSS THE AREA. THESE METAVOLCANICS ARE LOCALLY PILLOWED, VESICULAR OR AMYGDALOIDAL AND HAVE BEEN METAMORPHOSED TO GREENCHIST RANK. THIN LAYERS OF INTERMEDIATE TO ACIDIC CRYSTAL TUFFS ARE INTERBEDDED WITH THE FLOWS.

CYCLES OF CHEMICAL AND CLASTIC SEDIMENTATION OCCURED DURING THE DEVELOPMENT OF THE VOLCANIC PILE AND RESULTED IN THE DEPOSITION OF CHERT AND CHERT-IORN FORMATION CARRYING AS MUCH AS 60% MAGNETITE. SUPHIDE-RICH EXHALATIVE UNITS ARE ALSO PRESENT WITHIN THE CHEMICAL SEDIMENTS.DEFORMATION AND. FRACTURING HAS RESULTED IN THE DEVELOPMENT OF CHERT-BRECCIA IN SOME SECTIONS.

SPATIALLY, CLOSELY ASSOCIATED WITH THE MAIN CHERT UNITS ARE RELATIVELY SMALL BODIES OF FELDSPAR PORPHRY WHICH ARE CONSIDERED TO BE SUB-VOLCANIC FELSIC INTRUSIVES.

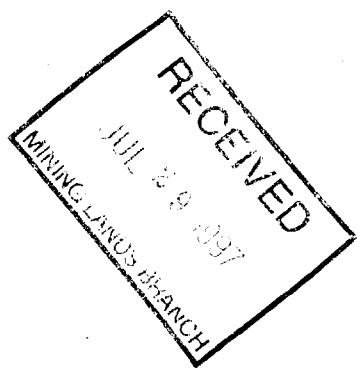
THE METASEDIMENTS WHICH APPEAR TO BE MORE EXTENSIVE IN THE EASTERN AND WESTERN PARTS OF THE BELT CONSIST OF POLYMICTIC CONGLOMERATE, AND MINOR ARKOSIC SANDSTONE AND MINOR SLATE. THE MAFIC INTRUSIVES OCCUR IN THE CENTRAL PART OF THE BELT ASSOCIATED WITH THE MAFIC METAVOLCANICS. THE COMPOSITION OF THESE ROCKS VARIES FROM DIORITE TO GABBRO, WITH GABBRO BEING DOMINANT. THE PERIDOTITE BODIES ARE MASSIVE,VARIABLY SERPENT-INIZED BODIES THAT MAY OR MAY NOT BE ASSOCIATED WITH THE GABBROIC INTRUSIVES.

THE METAMORPHIC FOLIATION IN THE AREA TRENDS WEST-NORTHWEST TO NORTHWEST AND DIPS VERTICALLY TO SUB-VERTICALLY.

THERE MAY BE FAULTING PARALLEL TO THE REGIONAL FOLIATION BUT THE MOST APPARENT DIRECTION OF FAULTING IS THE NORTH-NORTHWEST AS INDICATED BY OBSERVED OFFSETS, DISPLACEMENT OF UNITS AND AIRPHOTO LINEMENTS.
SOME EAST-NORTHEAST ZONES OF SHEARING ARE ALSO REPORTED.

PROPERTY GEOLOGY

THE GARNET CLAIM BLOCK IN THE NORTHEAST QUADRANT OF GARNET TOWNSHIP IS UNDERLAIN BY A WEST-NORTHWEST TREND-ING AND STEEPLY DIPPING SEQUENCE OF THOLEIITIC METABASALTS THAT ARE MASSIVE TO PORPHYRITIC IN TEXTURE.
THESE METAVOLCANICS ARE DARK GREEN IN COLOUR,RANGE FROM FINE TO MEDIUM GRAINED AND WHEN PORPHYRITIC CONTAIN WHITE PHENOCRYSTS OF PLAGIOCLASE.
PILLOWED VARITIES ARE PRESENT IN BOTH THE NORTHEASTERN AND SOUTHWESTERN PARTS OF THE CLAIM BLOCK.TWO NARROW BANDS OF FERRUGINOUS CHERT TO MAGNETITE IORN FORMATION WITH ASSOCIATION GRAPHITE OCCUR IN THE SOUTHWESTERN END OF THE PROPERTY AND TREND EAST-SOUTHEASTERLY APPROX. 400 FEET OUTSIDE THE SOUTHERN CLAIM BOUNDRY.



REFERENCES

1 - ASSESSMENT FILES, MINERAL DEPOSITS SERVICES,ONTARIO GEOLOGICAL SURVEY, TORONTO.

2 - GORDON,J.B. ET AL.(1979)
GOLD DEPOSITS OF ONTARIO, PART 2, ONTARIO GEOLOGICAL SURVEY, MINERAL DEPOSITS CIRCULAR 18.

3 - HODGSON,C.J.AND MACGEEHAN,P.J. (1982)
GEOLOGICAL CHARACTERISTICS OF GOLD DEPOSITS IN THE SUPERIOR PROVINCE OF THE CANADIAN SHIELD, IN GEOLOGY OF CANADIAN GOLD DEPOSITS, CAN.INST. MIN. MET.,SPECIAL VOL.24, P.211-232.

4 - MEEN,V.B.(1944)
GEOLOGY OF THE CUNNINGHAM-GARNET AREA, SUDBURY DISTRICT, ONTARIO, ONTARIO DEPT. MINES,ANN. REPORT, VOL.51,PT.7.

5 - SIRAGUSA,G.M.(1977)
CUNNINGHAM AND GARNET TOWNSHIPS, DISTRICT OF SUDBURY IN SUMMARY OF FIELD WORK,1977 BY THE GEOLOGICAL BRANCH,ONT.GEOL.SURV.,MISC.PAPER 75, 208 P.

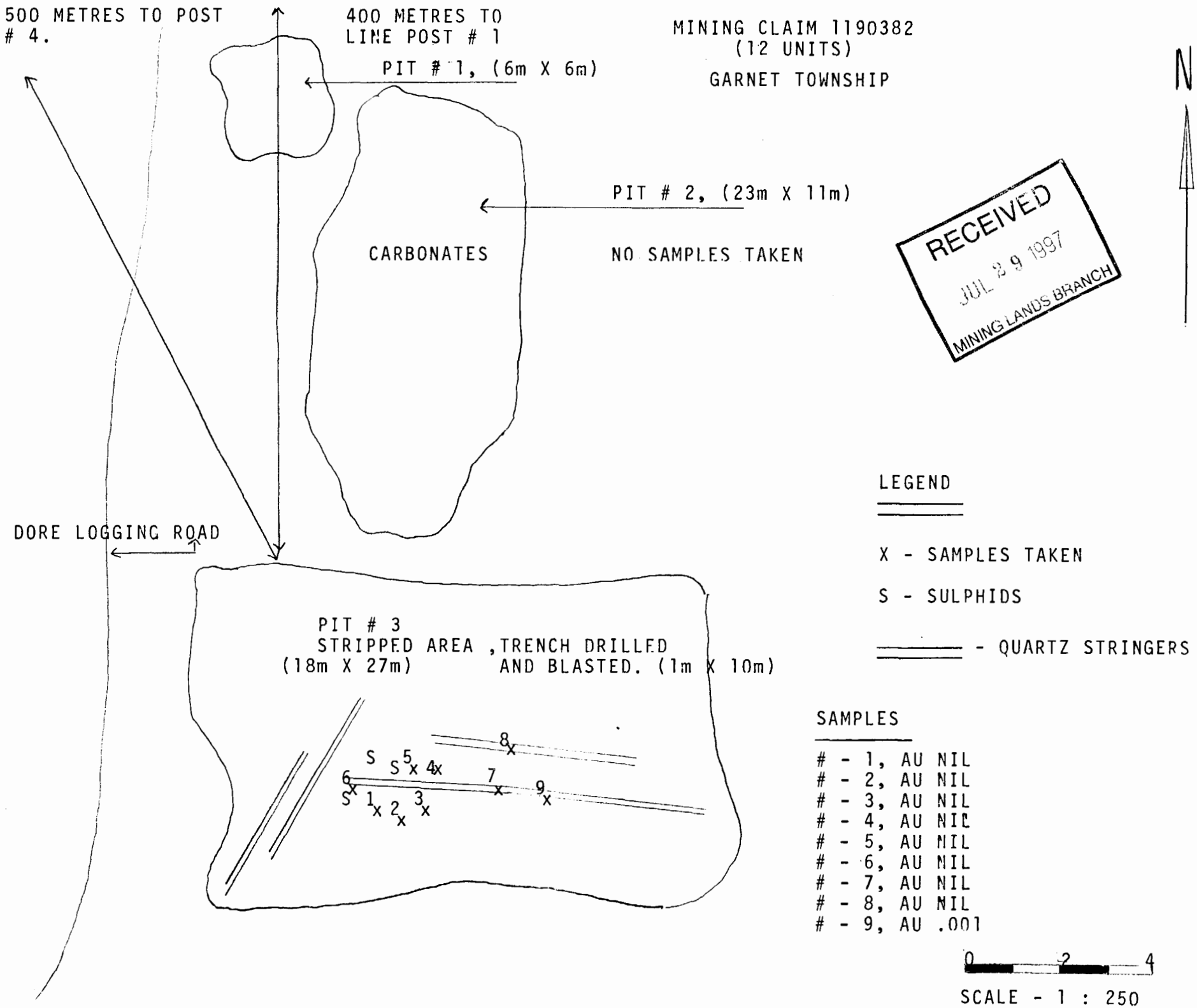
6 - SIRAGUSA,G.M.(1980)
GARNET TOWNSHIP, SUDBURY DISTRICT,ONTARIO, PRELIMINARY MAP P.2340, ONTARIO GEOL.SURVEY.

7 - WINTER,L.D.S.,(1985)
GEOLOGICAL REPORT ON THE GARNET LAKE PROPERTY, GARNET TOWNSHIP, DISTRICT OF SUDBURY, ONTARIO FOR WESTERN PACIFIC ENERGY CORPORATION. 18 P.

8 - MASSON,S.L.(1986)
GEOLOGICAL SURVEY REPORT ON THE GARNET LAKE PROPERTY,GARNET TOWNSHIP, DISTRICT OF SUDBURY, ONTARIO FOR WESTERN PACIFIC ENERGY CORPORATION 20 P.

9 - WINTER,L.D.S.,(1986A)
REPORT ON THE EXPLORATION PROGRAM ON THE GARNET TOWNSHIP PROPERTY,ONTARIO,FOR WESTERN PACIFIC ENERGY CORPORATION, 11 P.

10 - WINTER,L.D.S.,(1986B)
REPORT ON THE DIAMOND DRILLING PROGRAMME ON THE GARNET TOWNSHIP PROPERTY,ONTARIO FOR WESTERN PACIFIC ENERGY CORPORATION,DECEMBER 1985-FEBRUARY 1986, 9 P.



MINING CLAIM 1190382
(12 UNITS)

GARNET TOWNSHIP

LEGEND

X - SAMPLES TAKEN

S - SULPHIDS

_____ - QUARTZ STRINGERS

SAMPLES

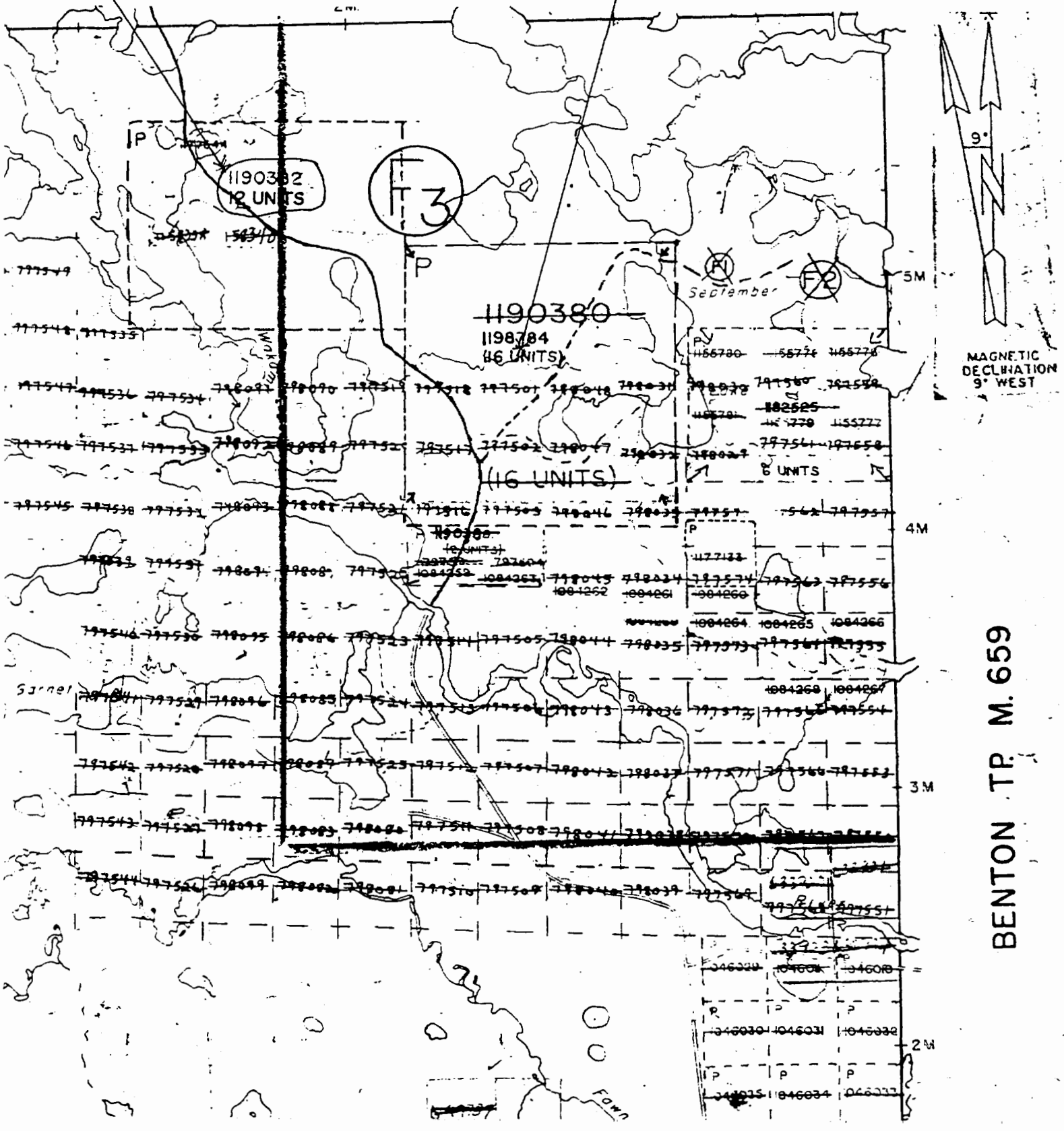
- 1, AU NIL
- 2, AU NIL
- 3, AU NIL
- 4, AU NIL
- 5, AU NIL
- 6, AU NIL
- 7, AU NIL
- 8, AU NIL
- 9, AU .001

0 2 4

SCALE - 1 : 250

(DOUGLAS LALONDE, PROJECT # 1)
PHOTO CLAIM MAP, GARNET TOWNSHIP
MINING CLAIM - P1190382.
AU. SHOWING, PROPOSED STRIPPING
AREA.

(FREDERICK ROSS, PROJECT # 1)
PHOTO CLAIM MAP, GARNET TOWNSHIP
MINING CLAIM - P1198784.
AU. SHOWING, PROPOSED STRIPPING
AREA.



Garnet Two

Final Report on The Garnet Project

The stripping of bedrock and the trench which was blasted was very disappointing. The assays from the trenchs nil and .001 in gold which is nothing in gold. The mineralized zones had lost of pyrite and very fine sulphides and periodite lots of it but there was no valves in gold. The dominant rock type on the north & south side of the mineralized zones or metovolcanic and tholeiitic Basalt which trend east - southeast across the area. The mineralized zones is part of a chert iron formation unit which is propably why the zone does not run in gold. There must of been a problem with the samples taken a year early when the Ross brother took samples. The samples must of got mixed up with other samples or something because the is surely no assays in gold there. Its a good look formation but no gold values. The property has no merit the claims will be left to go open and I am not filing the work which was done and I not wasting no more money and time on the property and area.

Douglas Falonde

Swastika Laboratories

A Division of TSL/Assayers Inc.

Assaying - Consulting - Representation

Established 1928

Assay Certificate

6W-4343-RA1

Company: **D. LALONDE**

Date: OCT-28-96

Project:

Attn: D. Lalonde

We hereby certify the following Assay of 9 Rock samples submitted OCT-22-96 by .

Sample Number	Au oz/ton	Au Check oz/ton
#1	Nil	Nil
#2	Nil	-
#3	Nil	-
#4	Nil	-
#5	Nil	-
#6	Nil	-
#7	Nil	-
#8	Nil	-
#9	0.001	0.001

One assay ton portion used.

Certified by G. Lalonde

P.O. Box 10, Swastika, Ontario P0K 1T0
Telephone (705) 642-3244 FAX (705) 642-3300

ONTARIO PROSPECTORS ASSISTANCE PROGRAM (OPAP)
FINAL SUBMISSION FORM 1995

INSTRUCTIONS: Please read the guidebook before completing form Please type or print
Submit completed form and supporting documentation
by January 31, 1996 (May 31, 1996 for winter program) to:
Incentives Office (Mining and Land Management Branch)
Ministry of Northern Development & Mines
5th Floor, 933 Ramsey Lake Rd., Sudbury, Ontario P3E 6B5

TO BE COMPLETED BY SUCCESSFUL GRANTEES AFTER PROJECT COMPLETION AND ACCOMPANIED BY WRITTEN REPORTS, MAPS, ETC.

Regular Project ☑ Winter Project ☐

Applicant Douglas Lalonde File Number OP96-083

Proposed project area(s) (Twp. or claim map name, latitude and longitude) Completed?

1. Garnet Twp - 82° 31' Longitude, 48° 45' Latitude Yes ☑ No ☐

2. _____ Yes ☐ No ☐

Changes to proposed project(s) (if any)

List other co-owners of the property with OPAP grants that worked on project
I Douglas Lalonde applied my OPAP on Claim P-1190381 myself.

I. WORK PERFORMED BY APPLICANT (Summary of Section IV)

No. days worked by applicant (that's only you)

1. Project #1 area/name Garnet Project

Traditional prospecting	No. of samples		
Geological surveys	Scale		
Geophysical surveys	Type	Miles/km	
Geochemical surveys	Type	No. of samples	
Drilling	Type Das Plugger	Ft./m 30 Holes 4' deep each	4
Stripping/Trenching	Method Back Hoe I was present while Backhoe worked		6
Other	Type Wash bedrock with power pump		2
		TOTAL	12

Form filled out by ☑ Applicant ☐ Other (please specify) _____
Report prepared by ☑ Applicant ☐ Other (please specify) _____
Technical Report Filed for Assessment Work Yes ☐ No ☒

I. WORK PERFORMED BY APPLICANT (Continued)

2. Project #2 area/name _____ No. days worked by applicant

Traditional prospecting	No. of samples ~~[illegible]~~	
Geological surveys	Scale _____	
Geophysical surveys	Type _____ Miles/km _____	
Geochemical surveys	Type _____ No. of samples _____	
Drilling	Type _____ Ft./m _____	
Stripping/Trenching	Method _____ _____	
Other	Type _____	
	TOTAL	

TOTAL DAYS (ALL PROJECTS) A _____
(Attach additional sheets for additional project areas as required)

RECEIVED
JUL 29 1997
MINING LANDS BRANCH

II. EXPENDITURES (total of all projects) - Summary of I and III

1. Number of working days **by applicant**
(A) x $100/day ..... X 12 days ..... $ 1200.00
2. Number of report preparation days **by applicant** x $100/day .... X 2 ..... $ 200.00
3. Analyses/Assay costs ... 9 Au Samples Taken @ 110.75 ..... $ 110.75
4. Equipment rentals/
Gas Plugger & Steel Bits $ _____
2 Days @ 150. per day $ 300.00 $ 300.00
5. Consumable Supplies For Blasting Power & Tape Fuse @ 708.13 $ 708.13

6. Contract services (state type)
# of workers 2 men operator & Helper $ _____
# of days worked 6 Days ..... $ 8792.00 $ 8792.00
Backhoe overburden $ _____

7. Travel (state method: road, air, etc.)
4X4 Veh. ..... $ _____
4000 K.M. X .30 @ KM. $ _____ $ 1200.00
..... $ _____

8. Food and Accommodation ... 12 days at @ 25.00 per Day ..... $ 300.00

9. Other expenses (specify, e.g. typing, printing, shipping of supplies)
..... $ _____ $ _____
..... $ _____ $ _____

10. Helpers ..... $ _____ $ _____
# of helpers.....
# of days worked.....

TOTAL EXPENDITURES ..... $ 12810.88

IV. DAILY REPORTS (Summarize work activity in Section I)

Day	Project Area	Date	Work Performed
1	Garnet Trap	July 5/96	Present while Backhoe is stripping
2	"	July 6/96	" " " " "
3	"	July 7/96	" " " " "
4	"		
5	"	July 8/96	Washing with Power Pump
6	"		
7	"	July 9/96	Present while Backhoe is stripping
8	"	July 10/96	" " " " "
9	"	July 13/96	" " " " "
10	"		
11	"	July 15/96	Washing with Power Pump.
12	"	Sept 11/96	Drilling with Gas Plugger
13	"	Sept 13/96	Drilling with Gas Plugger
14	"	Sept 14/96	Drilling with Gas Plugger
15	"	Sept 15/96	Blasting holes which was Drilled
16			
17			
18			
19			
20			
21			
22			
23			
24			
25			
26			
27			
28			
29			
30			
31			
32			
33			
34			
35			
36			
37			
38			
39			
40			
41			

Attach additional sheets as required.

V. SIGNIFICANT RESULTS (please complete)

Project Area	New Showings and/or Anomalies	Commodity	Best Analyses
Garnet Twp.			.001 Au

VI. CLAIMS STAKED DURING/AFTER PROSPECTING ACTIVITY (please complete)

Project Area	Claim Numbers	Number of Claim Units
	none	none

VII. OPTION AGREEMENTS RESULTING FROM OPAP PROJECT (please complete)

Optionee	Property/Claims	Dollar Value of Work Commitment
none		

The Ministry of Northern Development and Mines may verify all statements related to and made herein this application.

1. I am the person named in the Final Submission Form under the Ontario Prospectors Assistance Program.
2. I am ordinarily a resident of Canada.
3. I have complied with all the requirements of the said program.
4. I understand that it is an offence under the Ontario Mineral Exploration Act, R.S.O. 1990, to make a false or misleading statement and that all statements and all other information submitted in support of the said application are true and correct.
5. I was not employed by the Mines and Minerals Division of the Ministry while in receipt of the OPAP grant.
6. I am aware that any other Provincial or Federal Government financial assistance received for said application will be deducted from the amount of incurred "Total Eligible Expenses".

It is an Offence under subsection 8(1)(A) of the Ontario Mineral Exploration Act, R.S.O. 1990 to knowingly furnish false or misleading information.

Personal information on this form is obtained under the authority of the Ontario Mineral Exploration Act, R.S.O. 1990, sections 2, 3 and 4 and the Ontario Prospectors Assistance Program Regulation, sections 4, 5 and 6. The financial and technical information will be used for the purpose of determining the eligibility of the applicant to have a program designated for financial assistance and the amount of such assistance. Other information, such as statistical information about the individual projects will be used for the purpose of determining the overall effectiveness of the program. It may be disclosed for those purposes and I consent to its disclosure for such purposes. Questions about this collection should be directed to Supervisor, Incentives Office, Mining and Land Management Branch, Ministry of Northern Development and Mines, 5th Floor, 933 Ramsey Lake Road, Sudbury, Ontario P3E 6B5, Toll free 1-800-265-0834.

Signature of Applicant Douglas Lalonde Date Nov 27/96

Name (print) Douglas Lalonde

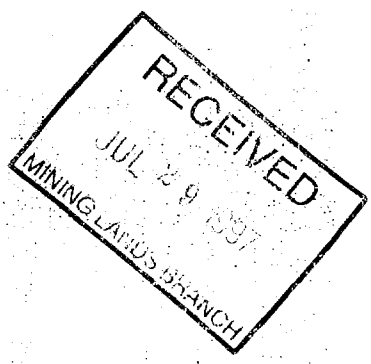
DATE July 19 76

NAME Bruce Carter

ADDRESS

POSTAL CODE

QUANTITY	DESCRIPTION	PRICE	AMOUNT
	Rental of gas		
	Stoppers - for 2 days		
	@ $1.50.00 per day		$3.00



CLERK	CASH	C.O.D.	CHARGE	ON ACCT.	MDSE. RET.	PAID OUT	TAX
	○	○	○	○	○	○	

I HAVE RECEIVED THE ABOVE IN GOOD ORDER.

X

TOTAL

MOORE® FLATPAKIT® 2 REDIFORM 5R096E

24355

Swastika Laboratories
P.O. Box 10
Swastika, Ontario
P0K 1T0

RECEIVED
NOV 9 '96
MINNOVA INC.

INVOICE

NO.: 00038417

DATE: 10/30/96

PAGE: 1

SOLD TO:

D. LALONDE
53 WAY AVENUE

TIMMINS, ON P4N 3C4

SHIP TO:

Same

GST Number: R132862640

Proj #/P.O. # N/A

ITEM NO.	QUANTITY	UNIT	DESCRIPTION	G	P	UNIT PRICE	AMOUNT
	9		Au			8.00	72.00
	9		Sample Prep			3.50	31.50
			Cert #6W-4343-RA1				
			GST @ 7%				7.25

Paid in full Nov 4/96

COMMENTS:

Net 30 Days

TOTAL	110.75

GST REG NO R121401160 ** INVOICE **

ORDER NUMBER	B/L NUMBER
00036812	20033683
INVOICE NUMBER	INVOICE DATE
38035151	12 09 96
TIME IN	TIME OUT

COMBINATION SHORT FORM OF STRAIGHT BILL OF LADING-EXPRESS SHIPPING CONTRACT ADOPTED BY RAIL FREIGHT AND EXPRESS CARRIERS SUBJECT TO THE JURISDICTION OF THE CANADIAN TRANSPORT COMMISSION.

SUPERIOR EXPLOSIVES
A BUSINESS UNIT OF ICI CANADA INC.

REMIT TO
ICI SUPERIOR EXPLOSIVES
P.O. BOX 159
FENWICK ON L0S 1C0
(905)892-5725

SHIPPED FROM:
MCINTYRE MINESITE
TIMMINS/SCHUMACHER , ON
P0N 1G0

PAGE: 1

SOLD TO
MISC A/R CUSTOMER - TIMMINS

TIMMINS ,ON
CANADA 000 000
40037049

SHIP TO
DOUG LALONDE
53 WAY AVE
TIMMINS
CANADA 000 000
0

DATE ORDERED	DATE REQUIRED	TIME REQUIRED	CUSTOMER REFERENCE NO.	MAG. LIC. NO.	P.S.T. NO.	TERMS
2/09/96	12/09/96		MR. LALONDE			NET 30 DAYS

DATE SHIPPED	SHIP VIA	ROUTING	SHIPPERS MAG. LIC.	VEHICLE NO.
2/09/96	CARRIER NOT IDENTIFIED			

QTY	UM	DESCRIPTION	CUST.PROD.	PRICE	UM	AMOUNT
		FOB SHIPPING POINT				
60	UN	FUSE ASSEMBLIES 3M MANSTART		96.30		385.2(
1	CS	GIANT GELATIN 25 X 200		173.80	CS	173.8(
1	EA	ADMINISTRATION FEE		40.00	EA	40.0(
		REGULATORY COMPLIANCE CHARGE				16.77
		7.0 % G.S.T. ON 615.77				43.10
		8. 0 % ONTARIO SALES TAX ON 615.77				49.26
		TOTAL AMOUNT				706.13

RECEIVED
JUL 29 1997
MINING LANDS BRANCH

PALLETS USED: | PALLETS RETURNED: | BAGS USED: | BAGS RETURNED:

OSS | NET

THESE PRODUCTS ARE SOLD AND SHIPPED IN ACCORDANCE WITH THE TERMS OF SALE ON THE REVERSE SIDE OF THIS DOCUMENT.

SPECIAL INSTRUCTIONS:

SUMMARY OF EMERGENCY RESPONSE PLAN

EMERGENCY RESPONSE TELEPHONE NUMBERS

CARDS OFFERED	CLASS	SHIPPER	CARRIER	CONSIGNEE
☐ YES ☐ NO	QUANTITY	SUPERIOR EXPLOSIVES	PER	PER
		PER		

2 SHIPPING ORDER (AGENT MUST DETACH AND RETAIN THIS SHIPPING ORDER AND MUST SIGN THE ORIGINAL BILL OF LADING - EXPRESS SHIPPING CONTRACT)

085835

[redacted]

Exploration

DOUG LALONDE
53 WAY AVE.
TIMMINS ONT.

JULY 15,1996

RE: TRENCHING GARNET TWP.
JULY 5, TO JULY 13,1996

JULY 5, FLOAT	=	$572.00
6 DAYS BACKHOE 10 HRS. @ $90.00 PER HR. - 60 hrs Total	=	5400.00
6 DAYS PICK UP @ $50.00 per day	=	300.00
6 DAYS GAS FOR PICK-UP @$35.00 PER DAY	=	210.00
6 DAYS HELPER $20.00 PER HR. X84 - Total	=	1680.00
6 DAYS OPERATOR 24 HRS. TRAVELLING @ $20.00	=	480.00
6 DAYS POWER SAW @$25.00 per day	=	150.00
TOTAL	=	$8792.00

RECEIVED
JUL 29 1997
MINING LAND BRANCH

YOURS TRULY,
Roland Collins
ROLAND COLLINS

Paid in full

199 Lois Crescent — Timmins, Ontario P4P 1G7 — Telephone (705) 268-0601 — Fax (705) 268-0601

Ontario Ministry of Northern Development and Mines

Declaration of Assessment Work Performed on Mining Land

Mining Act, Subsection 65(2) and 66(3), R.S.O. 1990

Transaction Number (office use): W.9760.00174
Assessment Files Research Imaging

Personal information ... Mining Act, the infor... Questions about th... 933 Ramsey Lake R...

41015SE0074 2.17526 GARNET

900 2.17526

...d 66(3) of the Mining Act. Under section 8 of the ... work and correspond with the mining land holder. ... Northern Development and Mines, 6th Floor,

Instructions: - For work performed on Crown Lands before **recording** a claim, use form 0240.
- Please type or print in ink.

1. Recorded holder(s) (Attach a list if necessary)

Name: FREDERICK ROSS	Client Number: 189352
Address: 958 PARK AVE.	Telephone Number: (705) 267-6796
TIMMINS, ON P4N 7K6	Fax Number:
Name: DOUGLAS LALONDE	Client Number:
Address: 53 WAY AVE.	Telephone Number:
TIMMINS, ON P4N 3C4	Fax Number:

2. Type of work performed: Check (✓) and report on only ONE of the following groups for this declaration.

☐ Geotechnical: prospecting, surveys, assays and work under section 18 (regs) ☑ Physical: drilling, stripping, trenching and associated assays ☐ Rehabilitation

Work Type: MECHANICAL STRIPPING & TRENCHING	Office Use
	Commodity
	Total $ Value of Work Claimed: 12,810.00
Dates Work Performed: From 05 (Day) 07 (Month) 96 (Year) To 15 (Day) 09 (Month) 96 (Year)	NTS Reference
Global Positioning System Data (if available) / Township/Area: GARNET TWP.	Mining Division: Porcupine
M or G-Plan Number: G-1130	Resident Geologist District: Timmins

Please remember to:
- obtain a work permit from the Ministry of Natural Resources as required;
- provide proper notice to surface rights holders before starting work;
- complete and attach a Statement of Costs, form 0212;
- provide a map showing contiguous mining lands that are linked for assigning work;
- include two copies of your technical report.

3. Person or companies who prepared the technical report (Attach a list if necessary)

Name: FREDERICK ROSS	Telephone Number: (705) 267-6796
Address: 958 PARK AVE., TIMMINS, ON P4N 7K6	Fax Number:
Name: DOUGLAS LALONDE	Telephone Number:
Address: 53 WAY AVE., TIMMINS, ON P4N 3C4	Fax Number:
Name:	Telephone Number:
Address:	Fax Number:

RECEIVED
JUL 29 1997
MINING LANDS BRANCH

RECEIVED (c)
APR 8 1998
TB 4:10
PORCUPINE MINING DIVISION

4. Certification by Recorded Holder or Agent

I, FREDERICK ROSS (Print Name), do hereby certify that I have personal knowledge of the facts set forth in this Declaration of Assessment Work having caused the work to be performed or witnessed the same during or after its completion and, to the best of my knowledge, the annexed report is true.

Signature of Recorded Holder or Agent: FROSS		Date: APRIL 8/97
Agent's Address: 958 PARK AVE., TIMMINS, ON P4N 7K6	Telephone Number: (705) 267-6796	Fax Number:

5. Work to be recorded and distributed. Work can only be assigned to claims that are contiguous (adjoining) to the mining land where work was performed, at the time work was performed. A map showing the contiguous link must accompany this form.

W 9760.00174

	Mining Claim Number. Or if work was done on other eligible mining land, show in this column the location number indicated on the claim map.	Number of Claim Units. For other mining land, list hectares.	Value of work performed on this claim or other mining land.	Value of work applied to this claim.	Value of work assigned to other mining claims.	Bank. Value of work to be distributed at a future date.
eg	TB 7827	16 ha	$26, 825	N/A	$24,000	$2,825
eg	1234567	12	0	$24,000	0	0
eg	1234568	2	$ 8, 892	$ 4,000	0	$4,892
1	P-1190382	12	12,810	9,600	0	3,210
2						
3						
4						
5						
6						
7				2.17526		
8						
9						
10.						
11						
12						
13						
14						
15						
		Column Totals	12,810	9,600	0	3210

I, FREDERICK ROSS (Print Full Name), do hereby certify that the above work credits are eligible under subsection 7 (1) of the Assessment Work Regulation 6/96 for assignment to contiguous claims or for application to the claim where the work was done.

Signature of Recorded Holder or Agent Authorized in Writing	Date
	APRIL 8/97

6. Instructions for cutting back credits that are not approved.

Some of the credits claimed in this declaration may be cut back. Please check (✓) in the boxes below to show how you wish to prioritize the deletion of credits:

- [X] 1. Credits are to be cut back from the Bank first, followed by option 2 or 3 or 4 as indicated.
- [ ] 2. Credits are to be cut back starting with the claims listed last, working backwards; or
- [ ] 3. Credits are to be cut back equally over all claims listed in this declaration; or
- [ ] 4. Credits are to be cut back as prioritized on the attached appendix or as follows (describe):

RECEIVED JUL 29 1997 LANDS BRANCH

Note: If you have not indicated how your credits are to be deleted, credits will be cut back from the Bank first, followed by option number 2 if necessary.

For Office Use Only

Received Stamp	Deemed Approved Date	Date Notification Sent
RECEIVED (c) APR 8 1997 11:10	Date Approved	Total Value of Credit Approved
	Approved for Recording by Mining Recorder (Signature)	

Ontario Ministry of Northern Development and Mines

Statement of Costs for Assessment Credit

Transaction Number (office use)
W.9760.00174

Personal information collected on this form is obtained under the authority of subsection 6(1) of the Assessment Work Regulation 6/96. Under section 8 of the Mining Act, the information is a public record. This information will be used to review the assessment work and correspond with the mining land holder. Questions about this collection should be directed to the Chief Mining Recorder, Ministry of Northern Development and Mines, 6th Floor, 933 Ramsey Lake Road, Sudbury, Ontario, P3E 6B5.

Work Type	Units of Work Depending on the type of work, list the number of hours/days worked, metres of drilling, kilometres of grid line, number of samples, etc.	Cost Per Unit	Total Cost
MECHANICAL STRIPPING			$11,200
AND TRENCHING			
ASSAYS			$110
Associated Costs (e.g. supplies, mobilization and demobilization).			
	2.17526		
Transportation Costs			
VEHICLE ALLOWANCE			$1,200
Food and Lodging Costs			$300
		Total Value of Assessment Work	12,810

RECEIVED
JUL 29 1997
MINING LANDS BRANCH

Calculations of Filing Discounts:

1. Work filed within two years of performance is claimed at 100% of the above Total Value of Assessment Work.
2. If work is filed after two years and up to five years after performance, it can only be claimed at 50% of the Total Value of Assessment Work. If this situation applies to your claims, use the calculation below:

TOTAL VALUE OF ASSESSMENT WORK × 0.50 = Total $ value of worked claimed.

Note:
- Work older than 5 years is not eligible for credit.
- A recorded holder may be required to verify expenditures claimed in this statement of costs within 45 days of a request for verification and/or correction/clarification. If verification and/or correction/clarification is not made, the Minister may reject all or part of the assessment work submitted.

RECEIVED
(C)
APR 8 1997
TB 4:10
PORCUPINE MINING DIVISION

Certification verifying costs:

I, FREDERICK ROSS (please print full name), do hereby certify, that the amounts shown are as accurate as may reasonably be determined and the costs were incurred while conducting assessment work on the lands indicated on the accompanying Declaration of Work form as RECORDED HOLDER (recorded holder, agent, or state company position with signing authority) I am authorized to make this certification.

Signature: _____ Date: _____

Ministry of
Northern Development
and Mines

Ministère du
Développement du Nord
et des Mines

Ontario

Geoscience Assessment Office
933 Ramsey Lake Road
6th Floor
Sudbury, Ontario
P3E 6B5

Telephone: (888) 415-9846
Fax: (705) 670-5863

August 6, 1997

FREDERICK JOHN ROSS
958 PARK AVENUE
TIMMINS, Ontario
P4N-7K6

Dear Sir or Madam:

Submission Number: 2.17526

Subject: Transaction Number(s):		**Status**
	W9760.00174	Deemed Approval

We have reviewed your Assessment Work submission with the above noted Transaction Number(s). The attached summary page(s) indicate the results of the review. WE RECOMMEND YOU READ THIS SUMMARY FOR THE DETAILS PERTAINING TO YOUR ASSESSMENT WORK.

If the status for a transaction is a 45 Day Notice, the summary will outline the reasons for the notice, and any steps you can take to remedy deficiencies. The 90-day deemed approval provision, subsection 6(7) of the Assessment Work Regulation, will no longer be in effect for assessment work which has received a 45 Day Notice.

Please note any revisions must be submitted in DUPLICATE to the Geoscience Assessment Office, by the response date on the summary.

If you have any questions regarding this correspondence, please contact Steve Beneteau by e-mail at beneteau_s@torv05.ndm.gov.on.ca or by telephone at (705) 670-5855.

Yours sincerely,

ORIGINAL SIGNED BY
Blair Kite
Supervisor, Geoscience Assessment Office
Mining Lands Section

Correspondence ID: 11155
Copy for: Assessment Library

Work Report Assessment Results

Submission Number: 2.17526

Date Correspondence Sent: August 06, 1997 **Assessor:** Steve Beneteau

Transaction Number	First Claim Number	Township(s) / Area(s)	Status	Approval Date
W9760.00174	1190382	GARNET	Deemed Approval	July 07, 1997

Section:
10 Physical PTRNCH
10 Physical PSTRIP

Correspondence to:
Resident Geologist
South Porcupine, ON

Assessment Files Library
Sudbury, ON

Recorded Holder(s) and/or Agent(s):
FREDERICK JOHN ROSS
TIMMINS, Ontario

NOTES

400' surface rights reservation along the shores of all lakes and rivers.

F01 SILED ONLY Application (file 839742)

~~THIS TWP. IS SUBJECT TO FOREST ACTIVITIES IN 1992/93 FURTHER INFORMATION AVAILABLE ON FILE.~~

F2 THIS TWP. IS SUBJECT TO FOREST ACTIVITY IN 1993/94/95 FURTHER INFORMATION ON FILE. 1996

F3

THE INFORMATION THAT APPEARS ON THIS MAP HAS BEEN COMPILED FROM VARIOUS SOURCES, AND ACCURACY IS NOT GUARANTEED. THOSE WISHING TO STAKE MINING CLAIMS SHOULD CONSULT WITH THE MINING RECORDER, MINISTRY OF NORTHERN DEVELOPMENT AND MINES, FOR ADDITIONAL INFORMATION ON THE STATUS OF THE LANDS SHOWN HEREON.

DORE TP. M. 763

CUNNINGHAM TP. M.744

BENTON TP. M. 659

*FAWN TP. M.804

2.17526 BSTRIP, PTRNCH

1190380 (16 UNITS)
1198784 (16 UNITS)

1190382 12 UNITS

1206056
1206055
1206065
1206066

10 UNITS
12 UNITS
(16 UNITS)
(6 UNITS)
(12 UNITS)
(8 UNITS)
(4 UNITS)

1189875
1189920
1189877
1189922
1189878
1189918
1189919
1182854
1182855
1182856

Garnet
September

MAGNETIC DECLINATION 9° WEST

LEGEND

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

F.O.1 - Filed ONLY - see file 2-839742 Nov 19/95

DISPOSITION OF CROWN LANDS

TYPE OF DOCUMENT	SYMBOL
PATENT, SURFACE & MINING RIGHTS	●
SURFACE RIGHTS ONLY	●
MINING RIGHTS ONLY	●
LEASE, SURFACE & MINING RIGHTS	■
SURFACE RIGHTS ONLY	■
MINING RIGHTS ONLY	■
LICENCE OF OCCUPATION	▲
CROWN LAND SALE	C.S.
ORDER-IN-COUNCIL	O.C.
RESERVATION	⊗
CANCELLED	⊗
SAND & GRAVEL	S

SCALE: 1 INCH 40 CHAINS

FEET 0 500 1000 2500 5000 7500 10000
METRES 0 200 400 800 1KM 2KM

ACRES	HECTARES
40	16

RECEIVED JUL 29 1997 MINING LANDS BRANCH

TOWNSHIP

GARNET

2.17526

DISTRICT

SUDBURY

ISSUED JUN 9 1997

MINING DIVISION

PORCUPINE

PORCUPINE MINING DIVISION

Received Jan 4/80

Ministry of Natural Resources

Ontario Surveys and Mapping Branch

Date April 27th, 1973

Whitney Block, Queen's Park, Toronto

Plan No. G-1130

200

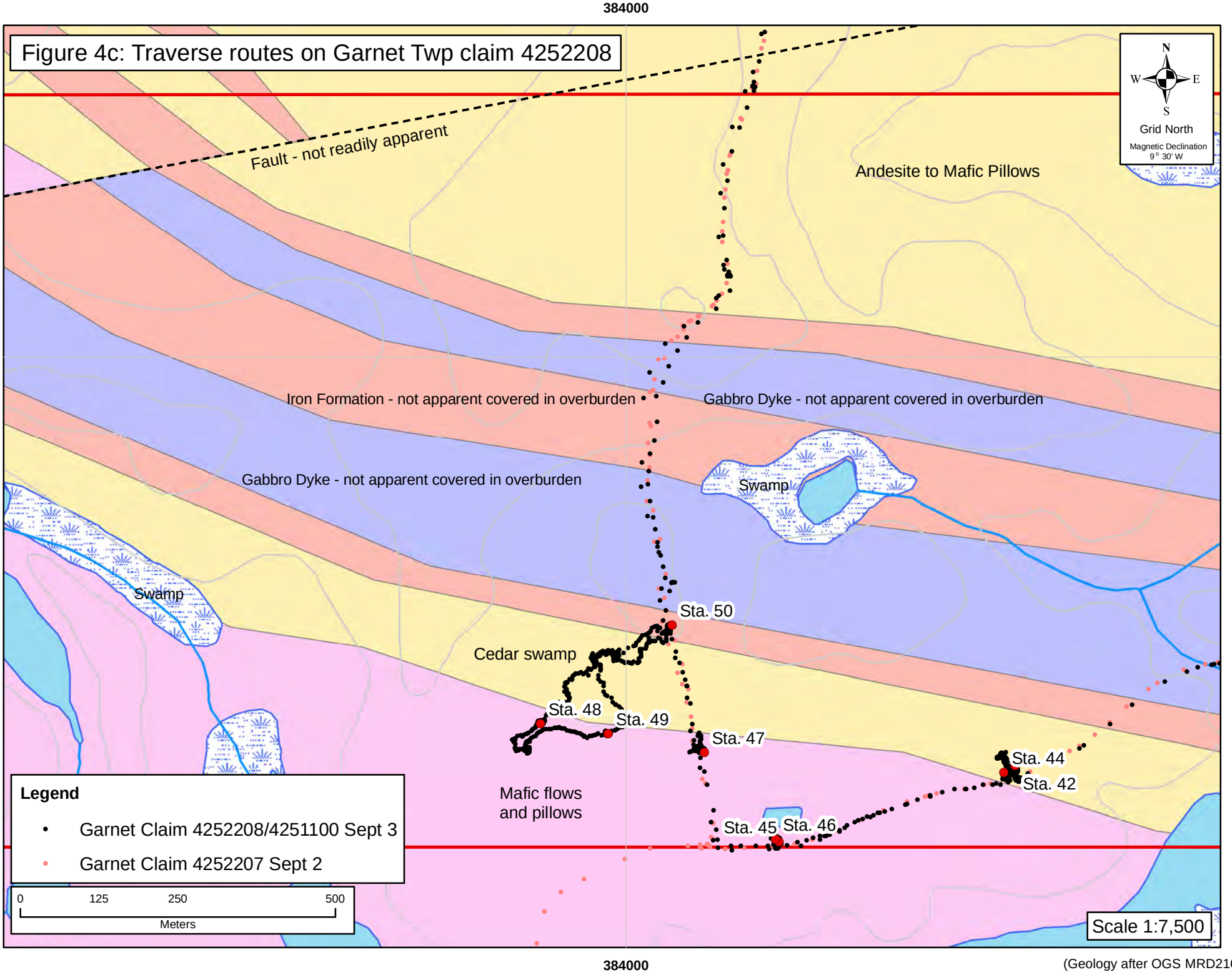
Appendix 2

Rock Descriptions

Sta_No	Date	NAD83Zn17_Easting	NAD83Zn17_Northing	EPE_M	Rock_Descrip	Structure_1	Strike_1	Dip_1	Structure_2	Strike_2	Dip_2	Structure_3	Strike_3	Dip_3	Photos	Claim_No	Sample_No
Sta. 11	1-Sep	381390	5287316	4	Mafic metavolcanics - pillows	Quartz shear	127	66S								4252207	
Sta. 12	1-Sep	381375	5287466	4	Gabbro Dyke	fracture	8	87E								4252207	675202
Sta. 13	1-Sep	381329	5287483	3	Gabbro Dyke	Strike	276	90								4252207	
Sta. 14	1-Sep	381328	5287482	3	Mafic metavolcanic rocks											4252207	
Sta. 15	1-Sep	381342	5287545	4	Mafic metavolcanic rocks											4252207	
Sta. 16	1-Sep	381351	5287545	4	Gabbro Dyke											4252207	
Sta. 17	1-Sep	381356	5287556	3	Mafic metavolcanic rocks											4252207	
Sta. 18	1-Sep	381321	5287588	3	Mafic metavolcanic rocks											4252207	
Sta. 19	1-Sep	381375	5287640	4	Mafic metavolcanic rocks											4252207	
Sta. 20	1-Sep	381506	5287587	3	Mafic metavolcanic rocks											4252207	
Sta. 21	1-Sep	381482	5287521	5	Mafic metavolcanic rocks											4252207	
Sta. 22	1-Sep	381467	5287430	5	Mafic metavolcanic rocks											4252207	
Sta. 23	1-Sep	382603	5287181	3	Mafic metavolcanics - pillows										1	4252207	
Sta. 24	1-Sep	382622	5287334	4	Gabbro Dyke	Strike	122	90								4252207	
Sta. 25	1-Sep	382718	5287916	3	Shear	Strike	85	82S							1	4252207	675203
Sta. 26	1-Sep	382723	5287938	4	Shear	Strike	85	82S							1	4252207	
Sta. 27	1-Sep	382685	5288125	5	Shear	Strike	100	90							1	4252207	675204
Sta. 28	1-Sep	382099	5288216	4	Shear	Strike	101	90								4252207	
Sta. 29	1-Sep	382106	5288204	4	Shear	Strike	101	90								4252207	675205
Sta. 30	1-Sep	381545	5288062	5	Mafic metavolcanic rocks											4252207	
Sta. 31	1-Sep	381840	5288070	4	Mafic metavolcanic rocks											4252207	
Sta. 32	1-Sep	381997	5288061	4	Mafic metavolcanic rocks											4252207	
Sta. 33	1-Sep	382046	5288214	4	Shear zone	Strike	101	90								4252207	675206
Sta. 34	1-Sep	382053	5288210	4	Sheared Amphibolite (ultramafic)	Strike	101	90								4252207	675207
Sta. 35	2-Sep	382574	5287109	6	Mafic metavolcanic - pillows	Tops of pillows	360									4252207	
Sta. 36	2-Sep	382713	5287100	6	Sheared Amphibolite (ultramafic)	Strike	101	90								4252207	
Sta. 37	2-Sep	382741	5287922	5	Shear zone	Strike	101	90								4252207	675208
Sta. 38	2-Sep	382840	5287903	4	Sheared Mafic Metasediments	Strike	111	90								4252207	
Sta. 39	2-Sep	382865	5287905	5	Shear	Strike	111	90								4252207	675209
Sta. 40	2-Sep	382852	5287902	5	Sheared Mafic Metasediments	Strike	111	90								4252207	675210
Sta. 41	2-Sep	382030	5288225	5	Sheared Mafic Metasediments	Strike	111	90								4252208	675211
Sta. 42	3-Sep	384618	5287351	5	Mafic metavolcanic rocks	Fracture	18	88E	Fracture	90	66N					4252208	
Sta. 43	3-Sep	384598	5387366	5	Mafic metavolcanic rocks	Fracture	239	88N	Fracture	100	90					4252208	675212
Sta. 44	3-Sep	384600	5287340	5	Mafic metavolcanic rocks											4252208	675213
Sta. 45	3-Sep	384243	5287230	3	Mafic metavolcanic rocks	Quartz vein	218	90								4252208	675214
Sta. 46	3-Sep	384237	5287234	4	Mafic metavolcanic rocks	Quartz vein	218	90								4252208	675215
Sta. 47	3-Sep	384124	5287372	3	Mafic metavolcanic rocks	Quartz-carbonate veins	245	90								4252208	
Sta. 48	3-Sep	383864	5287418	4	Mafic metavolcanic breccia											4252208	
Sta. 49	3-Sep	383971	5287402	4	Mafic metavolcanic breccia	Fracture	68	80S	Fracture	208	80SE	Fracture	120	90		4252208	
Sta. 50	3-Sep	384073	5287574	4	Mafic metavolcanic - pillows											4252208	
Sta. 51	3-Sep	385447	5288234	4	Mafic metavolcanic rocks											4251100	675216
Sta. 52	4-Sep	386076	5287026	5	Andesite											4251100	675217
Sta. 53	4-Sep	386090	5286980	5	Andesite	Shear strike	52	85S								4251100	675218
Sta. 54	4-Sep	386984	5287172	5	Silicate facies Fe-formation	Strike	298	78N								4251382	675219
Sta. 55	4-Sep	387593	5286646	5	Gabbro											4251382	
Sta. 56	4-Sep	388170	5287628	4	Porphyritic andesite	Weak shear	230	70W								4251382	
Sta. 57	5-Sep	385563	5287751	4	Silicate facies Fe-formation	Shear strike	173	90								4251100	
Sta. 58	5-Sep	385568	5287772	5	Andesite											4251100	
Sta. 59	5-Sep	385462	5287728	5	Gabbro											4251100	
Sta. 60	5-Sep	385518	5287466	5	Dacite											4251100	
Sta. 61	5-Sep	386325	5287441	5	Porphyritic andesite											4251100	
Sta. 62	5-Sep	386626	5287030	5	Gabbro											4251100	
Sta. 63	6-Sep	386776	5287260	4	Ultramafic											4251382	675220
Sta. 64	6-Sep	386772	5287268	4	Silicate facies Fe-formation	Shear strike	111	90								4251382	675221
Sta. 65	6-Sep	385984	5287797	3	Gabbro	Fracture	11	90	Fracture	269	80					4251100	
Sta. 66	7-Sep	386989	5287171	4	Silicate facies Fe-formation											4251382	675222
Sta.66a	7-Sep	386989	5287170.7	4	Silicate facies Fe-formation											4251382	675223
Sta.66b	7-Sep	386989	5287170.4	4	Silicate facies Fe-formation											4251382	675224
Sta.66c	7-Sep	386989	5287170	4	Silicate facies Fe-formation											4251382	675225
Sta. 67	7-Sep	382726	5287935	3	Shear zone	Strike	85	82S								4252207	675226
Sta.67a	7-Sep	382719	5287921	3	Shear zone	Strike	85	82S								4252207	675227
Sta.67b	7-Sep	382719	5287920.7	3	Shear zone	Strike	85	82S								4252207	675228
Sta.67c	7-Sep	382719	5287920.3	3	Shear zone	Strike	85	82S								4252207	675229
Sta. 68	7-Sep	382047	5288221	3	Sheared Mafic Metasediments											4252207	675230
Sta. 69	7-Sep	382050	5288212	4	Sheared Mafic Metasediments											4252207	675231
Sta. 70	7-Sep	382049	5288201	4	Shear zone	Strike	95	85S								4252207	675232
Sta. 70a	7-Sep	382049	5288200.7	4	Shear zone	Strike	95	85S								4252207	675233

Sta_No	Date	NAD83Zn17_Easting	NAD83Zn17_Northing	Comment_1
Sta. 11	1-Sep	381390	5287316	Mafic metavolcanic rock exhibiting well-preserved pillows with quartz-carbonate-amphibole outlining pillow selvages; a single 3cm wide quartz filled shear crosscuts the rocks at 127°/-66°S; pillow tops to the north with flow direction
Sta. 12	1-Sep	381375	5287466	Massive, medium-grained gabbro dyke, weak chlorite alteration to pyroxene, some of which appear to have retrograded to amphibole (actinolite-tremolite), crosscutting calcite and quartz filled fracture at 008°, dipping 87°E
Sta. 13	1-Sep	381329	5287483	Medium-grained, massive gabbro dyke with 40-45% white to yellowish plagioclase and weakly chlorite altered pyroxene
Sta. 14	1-Sep	381328	5287482	Mafic metavolcanic rocks, chlorite altered with sericite alteration along fractures and along contact zone with gabbro; occasional flame-like structures emanate from contact zone composed of recrystallized plagioclase (albite)
Sta. 15	1-Sep	381342	5287545	Mafic metavolcanic rocks that exhibit retrograde chlorite alteration to upper greenschist or lower amphibolite facies weakly sericitized and silicified rocks; possible flow with dark green amphibole clots after mafic fragments or clasts
Sta. 16	1-Sep	381351	5287545	Medium-grained, massive gabbro dyke with 40-45% white to yellowish plagioclase and weakly chlorite altered pyroxene
Sta. 17	1-Sep	381356	5287556	Mafic metavolcanic rocks that exhibit retrograde chlorite alteration to upper greenschist or lower amphibolite facies weakly sericitized and silicified rocks; possible flow with dark green amphibole clots after mafic fragments or clasts
Sta. 18	1-Sep	381321	5287588	Mafic metavolcanic rock exhibiting well-preserved pillows with quartz-carbonate-amphibole outlining pillow selvages; a single 3cm wide quartz filled shear crosscuts the rocks at 127°/-66°S; pillow tops to the north with flow direction
Sta. 19	1-Sep	381375	5287640	Mafic metavolcanic rocks exhibiting minor Fe-carbonate alteration, is weakly magnetic and intensely chlorite altered at the expense of some amphiboles; chlorite also occurs as clots within minor fractures
Sta. 20	1-Sep	381506	5287587	As at Sta. 19; very fine-grained to fine-grained, strongly chlorite altered and weakly sericite altered metavolcanic rocks
Sta. 21	1-Sep	381482	5287521	As at Sta. 19; very fine-grained to fine-grained, strongly chlorite altered and weakly sericite altered metavolcanic rocks
Sta. 22	1-Sep	381467	5287430	As at Sta. 19; very fine-grained to fine-grained, strongly chlorite altered and weakly sericite altered metavolcanic rocks
Sta. 23	1-Sep	382603	5287181	Well preserved pillow structures in mafic metavolcanic rocks that appear to be upper greenschist to lower amphibolite facies metamorphism with retrograde alteration to chlorite; moderate silicification to the rock
Sta. 24	1-Sep	382622	5287334	Gabbro dyke crosscutting mafic metavolcanic rocks at 122°/-90°, approximately 10 metres wide; unit is medium-grained comprised of 40-45% yellow-white subhedral plagioclase interlocking with weakly chlorite altered pyroxenes
Sta. 25	1-Sep	382718	5287916	Shear zone in mafic metavolcanic rocks - crenulated with an ultra mylonitic texture, numerous augens of boudinaged quartz veins alternating with rusty yellow-brown clots, however, no visible sulphides were observed
Sta. 26	1-Sep	382723	5287938	Shear zone in probable mafic metavolcanic debris flow with heterolithic fragments of mafic and dacitic origins that exhibit rotation and stretching within the mylonitic textured shear; strong sericite alteration to groundmass
Sta. 27	1-Sep	382685	5288125	Shear zone in probable mafic metavolcanic debris flow with heterolithic subrounded to subangular fragments of mafic and dacitic origins that exhibit rotation, elongation and stretching within the mylonitic textured shear
Sta. 28	1-Sep	382099	5288216	Contact between the shear zone and mafic metavolcanic host rocks; metavolcanics exhibit intense to strong sericite alteration, with carbonate coating all fracture walls within the metavolcanics; recrystallized plagioclase occurs in
Sta. 29	1-Sep	382106	5288204	0.5 to 1%, ≤ 0.1cm diameter, subrounded pyrite ± chalcopyrite disseminated fine-grained aggregates and grains hosted within very fine-grained to fine-grained silicified amphibolite occurring within the shear
Sta. 30	1-Sep	381545	5288062	Mafic metavolcanic rocks that appear to be a flow unit, massive, very fine-grained to fine-grained, moderately chlorite altered upper greenschist to amphibolite grade metavolcanics crosscut by numerous calcite-quartz filled fractures
Sta. 31	1-Sep	381840	5288070	Mafic metavolcanic rocks that appear to be a flow unit, massive, very fine-grained to fine-grained, moderate to strong chlorite altered upper greenschist to amphibolite grade metavolcanics
Sta. 32	1-Sep	381997	5288061	Mafic metavolcanic rock exhibiting well-preserved pillows and strong chlorite alteration, with quartz-carbonate-amphibole outlining pillow selvages; pillow tops to the north
Sta. 33	1-Sep	382046	5288214	Strongly silicified and sheared mafic metavolcanic rocks with 1-2% fine-grained pyrite and trace chalcopyrite occurring along shear planes as disseminated grains and aggregates
Sta. 34	1-Sep	382053	5288210	Silicified amphibolite (ultramafic) with black clots of chlorite and trace to 1% fine-grained disseminated pyrite grains and aggregates and very trace amounts of chalcopyrite; shear strikes 101°/-90°
Sta. 35	2-Sep	382574	5287109	Mafic metavolcanic pillows with tops that appear to be directed north; noses of pillows suggest an eastward flow direction; pillows are well preserved with rusty selvages; metamorphic grade appears to be upper greenschist to
Sta. 36	2-Sep	382713	5287100	Silicified amphibolite (ultramafic) with black clots of chlorite and only very trace fine-grained widely disseminated pyrite grains; shear strikes 101°/-90°
Sta. 37	2-Sep	382741	5287922	Shear zone with disseminated fine-grained trace amounts of pyrite and very trace amounts of chalcopyrite; shear is crosscutting metavolcanic rocks
Sta. 38	2-Sep	382840	5287903	Strongly schistose and sheared mafic metasedimentary rocks and metavolcanic tuffs; squarish broken quartz eyes and grains which exhibit rotation; unit is finely laminated along shear planes with occasional sedimentary features
Sta. 39	2-Sep	382865	5287905	Intense shearing in carbonate altered mafic metavolcanic rock with strong sericite alteration and silicification; trace sulphides as finely disseminated grains and aggregates consisting of pyrite and chalcopyrite; unit is mylonitic
Sta. 40	2-Sep	382852	5287902	Strongly schistose and sheared mafic metasedimentary rocks and metavolcanic tuffs; squarish broken quartz eyes and grains which exhibit rotation; unit is finely laminated along shear planes with occasional sedimentary features
Sta. 41	2-Sep	382030	5288225	Strongly schistose and sheared mafic metasedimentary rocks and metavolcanic tuffs; squarish broken quartz eyes and grains which exhibit rotation; unit is finely laminated along shear planes with occasional sedimentary features
Sta. 42	3-Sep	384618	5287351	Mafic metavolcanic rocks that exhibit weak silicification, weak to moderate carbonate alteration and strong chlorite alteration (retrograde)
Sta. 43	3-Sep	384598	5387366	Moderately silicified mafic metavolcanic rocks with 1-2% pyrite aggregates disseminated within the massive groundmass; crosscutting fracture sets 1) 239°/-88° and 2) 100°/-90° crosscuts the unit
Sta. 44	3-Sep	384600	5287340	Mafic metavolcanic rock that has been hydrothermally altered with recrystallized coarse-grained plagioclase set in an amphibole (actinolite-tremolite) altered chloritized fine-grained massive groundmass hosting trace Py and Cpy
Sta. 45	3-Sep	384243	5287230	7 cm wide quartz vein crosscutting mafic metavolcanic rocks; vein hosts 1-2% blebs of chalcopyrite, malachite, pyrite and galena as disseminations in the white to smoky gray translucent quartz matrix; strong chlorite alteration
Sta. 46	3-Sep	384237	5287234	Mafic metavolcanic rock that has been hydrothermally altered with recrystallized coarse-grained plagioclase set in an amphibole (actinolite-tremolite) altered chloritized fine-grained massive groundmass; crosscutting quartz vein
Sta. 47	3-Sep	384124	5287372	Moderately silicified and strongly chloritized massive mafic metavolcanic rocks with a gray to grayish green colouration on fresh surface; unit is crosscut by 0.1 to 0.5cm wide veinlets of quartz and carbonate intergrowths at
Sta. 48	3-Sep	383864	5287418	Mafic metavolcanic breccia in fault zone, no orientation to fault, outcrop not large enough to measure in thick swamp and overburden; mafic metavolcanic fragments cemented in chlorite, amphibole and silica
Sta. 49	3-Sep	383971	5287402	Fracture brecciated mafic metavolcanic rocks hosting very fine-grained widely disseminated pyrite
Sta. 50	3-Sep	384073	5287574	Mafic metavolcanic pillows with tops that appear to be directed north; noses of pillows suggest an eastward flow direction; pillows are well preserved with rusty selvages; metamorphic grade appears to be upper greenschist to
Sta. 51	3-Sep	385447	5288234	Silicified mafic metavolcanic rocks that appear to be amphibolite grade hosting widely disseminated trace amounts of pyrite and chalcopyrite
Sta. 52	4-Sep	386076	5287026	Light greenish gray fine-grained silicified massive andesite; appears to be flow; unit hosts trace disseminated blebs and aggregates of fine-grained pyrite
Sta. 53	4-Sep	386090	5286980	Light greenish gray fine-grained silicified massive andesite; appears to be flow; unit hosts crosscutting shear at 052°/-85°S that is carbonate altered and hosts trace disseminated blebs and aggregates of fine-grained pyrite
Sta. 54	4-Sep	386984	5287172	Silicate facies Fe-formation of finely banded alternating layers of silica (chert), silica + magnetite (Fe), and quartz + carbonate; non oxidized (no hematite); strike of unit is 298/-78N in contact with chlorite altered dacitic-andesite to the
Sta. 55	4-Sep	387593	5286646	Massive, medium-grained gabbro, weak chlorite alteration to pyroxene, some of which appear to have retrograded to amphibole (actinolite-tremolite), intergrown with 35-40% yellow-white subhedral plagioclase
Sta. 56	4-Sep	388170	5287628	Porphyritic andesite with 15-20% subhedral white to yellowish white weakly sericitized plagioclase feldspar crystals supported in a very fine-grained to fine-grained glassy light greenish gray groundmass; very trace fine-grained
Sta. 57	5-Sep	385563	5287751	Sheared metasedimentary rocks of silicate facies Fe-formation hosting boudinaged and 'Z' to 'S' folded quartz veins and chert layers; some open space vugs with dogstooth spar (quartz) growths; no sulphides; slickensides
Sta. 58	5-Sep	385568	5287772	Medium-grained, massive medium green andesite with moderate to strong chlorite alteration; unit supports 2-5% subrounded quartz-eyes
Sta. 59	5-Sep	385462	5287728	Fine-grained to medium-grained massive gabbro with weakly to moderately chloritized pyroxenes and yellow-white subhedral 40-45% sericitized plagioclase intergrowths
Sta. 60	5-Sep	385518	5287466	Fine-grained to medium-grained massive, weakly to moderately chloritized dacite
Sta. 61	5-Sep	386325	5287441	Porphyritic andesite with 15-20% subhedral white to yellowish white weakly sericitized plagioclase feldspar crystals supported in a very fine-grained to fine-grained glassy light greenish gray groundmass
Sta. 62	5-Sep	386626	5287030	Fine-grained massive gabbro with strong chlorite alteration to pyroxenes and sericite alteration to subhedral yellow- to greenish-white plagioclase
Sta. 63	6-Sep	386776	5287260	Strongly chlorite-altered ultramafic unit with chloritized pyroxenes intergrown with dark green coloured subhedral medium-grained plagioclase (Ca-rich) set in a fine- to medium-grained, strongly carbonate-altered groundmass
Sta. 64	6-Sep	386772	5287268	Silicate facies Fe-formation, very fine-grained, black, strongly magnetic, alternating bands of magnetite interlayered with chert-quartz-Fe-magnetite, with occasional quartz eyes; unit has the appearance of lamprophyre; unit is
Sta. 65	6-Sep	385984	5287797	Massive, medium-grained gabbro with strong chlorite alteration to pyroxenes and sericite alteration to plagioclase; occasional vugs of amphibole and 0.5 to 0.8cm wide irregular discontinuous stringers of white quartz supporting
Sta. 66	7-Sep	386989	5287171	5cm x 5cm x 30cm channel cut in silicate facies Fe-formation supporting 10-15% pyrite and 2-3% arsenopyrite as continuous and discontinuous veins associated with intrusive quartz veining
Sta.66a	7-Sep	386989	5287170.7	5cm x 5cm x 30cm channel cut in silicate facies Fe-formation supporting 10-15% pyrite and 2-3% arsenopyrite as continuous and discontinuous veins associated with intrusive quartz veining
Sta.66b	7-Sep	386989	5287170.4	5cm x 5cm x 30cm channel cut in silicate facies Fe-formation supporting trace pyrite associated with translucent quartz veins and veinlets
Sta.66c	7-Sep	386989	5287170	5cm x 5cm x 30cm channel cut in silicate facies Fe-formation supporting trace pyrite associated with translucent quartz veins and veinlets
Sta. 67	7-Sep	382726	5287935	5cm x 5cm x 30cm channel cut in shear zone with disseminated fine-grained trace amounts of pyrite in trace disseminated amounts and as continuous and discontinuous veinlets
Sta.67a	7-Sep	382719	5287921	5cm x 5cm x 30cm channel cut in shear zone with disseminated fine-grained trace amounts of pyrite in trace disseminated amounts and as continuous and discontinuous veinlets
Sta.67b	7-Sep	382719	5287920.7	5cm x 5cm x 30cm channel cut in shear zone with disseminated fine-grained trace amounts of pyrite in trace disseminated amounts and as continuous and discontinuous veinlets
Sta.67c	7-Sep	382719	5287920.3	5cm x 5cm x 30cm channel cut in shear zone with disseminated fine-grained trace amounts of pyrite in trace disseminated amounts and as continuous and discontinuous veinlets
Sta. 68	7-Sep	382047	5288221	6cm x 5cm x 25cm channel cut in mafic metasedimentary rocks sheared and crosscut by intrusive quartz veinlets supporting disseminated trace pyrite and chalcopyrite associated with quartz stringers
Sta. 69	7-Sep	382050	5288212	6cm x 5cm x 25cm channel cut in mafic metasedimentary rocks sheared and crosscut by intrusive quartz veinlets supporting disseminated trace pyrite and chalcopyrite associated with quartz stringers
Sta. 70	7-Sep	382049	5288201	6cm x 5cm x 25cm channel cut in intensely sheared mafic metasedimentary rocks with Fe-carbonate staining forming elongate stringers and clots supporting trace pyrite
Sta. 70a	7-Sep	382049	5288200.7	6cm x 5cm x 25cm channel cut in intensely sheared mafic metasedimentary rocks with Fe-carbonate staining forming elongate stringers and clots supporting trace pyrite

Sta_No	Date	NAD83Zn17_Easting	NAD83Zn17_Northing	Comment_2
Sta. 11	1-Sep	381390	5287316	to 120°-130° based on majority of pillow fronts (noses)
Sta. 12	1-Sep	381375	5287466	
Sta. 13	1-Sep	381329	5287483	
Sta. 14	1-Sep	381328	5287482	suggestive of hydrothermal alteration; metavolcanic metamorphic grade appears to be upper greenschist to lower amphibolite
Sta. 15	1-Sep	381342	5287545	
Sta. 16	1-Sep	381351	5287545	
Sta. 17	1-Sep	381356	5287556	stronger sericite alteration occurs in proximity with gabbro dyke
Sta. 18	1-Sep	381321	5287588	localized sections exhibit strong sericite alteration with recrystallized plagioclase and minor Fe-carbonate alteration, no sulphides observed; minor quartz-calcite veins up to 2cm wide are discontinuous - possible extensional fracture filling
Sta. 19	1-Sep	381375	5287640	
Sta. 20	1-Sep	381506	5287587	
Sta. 21	1-Sep	381482	5287521	
Sta. 22	1-Sep	381467	5287430	
Sta. 23	1-Sep	382603	5287181	
Sta. 24	1-Sep	382622	5287334	
Sta. 25	1-Sep	382718	5287916	strong sericite alteration to sheared groundmass
Sta. 26	1-Sep	382723	5287938	
Sta. 27	1-Sep	382685	5288125	strong sericite alteration to sheared groundmass
Sta. 28	1-Sep	382099	5288216	sections with lesser to moderate sericite alteration
Sta. 29	1-Sep	382106	5288204	
Sta. 30	1-Sep	381545	5288062	
Sta. 31	1-Sep	381840	5288070	
Sta. 32	1-Sep	381997	5288061	
Sta. 33	1-Sep	382046	5288214	
Sta. 34	1-Sep	382053	5288210	
Sta. 35	2-Sep	382574	5287109	lower amphibolite; weak saussuritization/sericite alteration with moderate silicification
Sta. 36	2-Sep	382713	5287100	
Sta. 37	2-Sep	382741	5287922	
Sta. 38	2-Sep	382840	5287903	visible
Sta. 39	2-Sep	382865	5287905	
Sta. 40	2-Sep	382852	5287902	visible
Sta. 41	2-Sep	382030	5288225	visible
Sta. 42	3-Sep	384618	5287351	
Sta. 43	3-Sep	384598	5387366	
Sta. 44	3-Sep	384600	5287340	
Sta. 45	3-Sep	384243	5287230	to the mafic metavolcanic rocks
Sta. 46	3-Sep	384237	5287234	hosts minor (> trace but <0.5%) chalcopyrite, pyrite and galena; veins strikes 218°/-90°
Sta. 47	3-Sep	384124	5287372	245°/-90° strike; localized zones of hornfels
Sta. 48	3-Sep	383864	5287418	
Sta. 49	3-Sep	383971	5287402	
Sta. 50	3-Sep	384073	5287574	lower amphibolite; weak saussuritization/sericite alteration with moderate silicification
Sta. 51	3-Sep	385447	5288234	
Sta. 52	4-Sep	386076	5287026	
Sta. 53	4-Sep	386090	5286980	
Sta. 54	4-Sep	386984	5287172	north; to the south unit disappears under thick glacial overburden; contact is parallel to strike of Fe-formation; several 6-10cm wide quartz veins parallel to the strike hosted within the Fe-formation that has trace-0.5% pyrite
Sta. 55	4-Sep	387593	5286646	
Sta. 56	4-Sep	388170	5287628	widely disseminated pyrite supported in the groundmass; unit is weakly fractured with a narrow (15-20cm wide) shear striking 230°/70°W
Sta. 57	5-Sep	385563	5287751	on some surfaces suggest lateral or horizontal movement
Sta. 58	5-Sep	385568	5287772	
Sta. 59	5-Sep	385462	5287728	
Sta. 60	5-Sep	385518	5287466	
Sta. 61	5-Sep	386325	5287441	
Sta. 62	5-Sep	386626	5287030	
Sta. 63	6-Sep	386776	5287260	
Sta. 64	6-Sep	386772	5287268	sheared at 111°/-90°
Sta. 65	6-Sep	385984	5287797	chlorite selvages and possible actinolite-tremolite; fracture set at 011°/-90° crosscut by 269°/-80°N fractures
Sta. 66	7-Sep	386989	5287171	
Sta.66a	7-Sep	386989	5287170.7	
Sta.66b	7-Sep	386989	5287170.4	
Sta.66c	7-Sep	386989	5287170	
Sta. 67	7-Sep	382726	5287935	
Sta.67a	7-Sep	382719	5287921	
Sta.67b	7-Sep	382719	5287920.7	
Sta.67c	7-Sep	382719	5287920.3	
Sta. 68	7-Sep	382047	5288221	
Sta. 69	7-Sep	382050	5288212	
Sta. 70	7-Sep	382049	5288201	
Sta. 70a	7-Sep	382049	5288200.7	


384000
Figure 4c: Traverse routes on Garnet Twp claim 4252208
N
W
E
S
Grid North
Magnetic Declination
9° 30' W
Fault - not readily apparent
Andesite to Mafic Pillows
5288000
Iron Formation - not apparent covered in overburden
Gabbro Dyke - not apparent covered in overburden
Gabbro Dyke - not apparent covered in overburden
Swamp
Swamp
Sta. 50
Cedar swamp
Sta. 48
Sta. 49
Sta. 47
Sta. 44
Sta. 42
Mafic flows
and pillows
Sta. 45
Sta. 46
Legend
Garnet Claim 4252208/4251100 Sept 3
Garnet Claim 4252207 Sept 2
0
125
250
500
Meters
Scale 1:7,500
384000
(Geology after OGS MRD216)

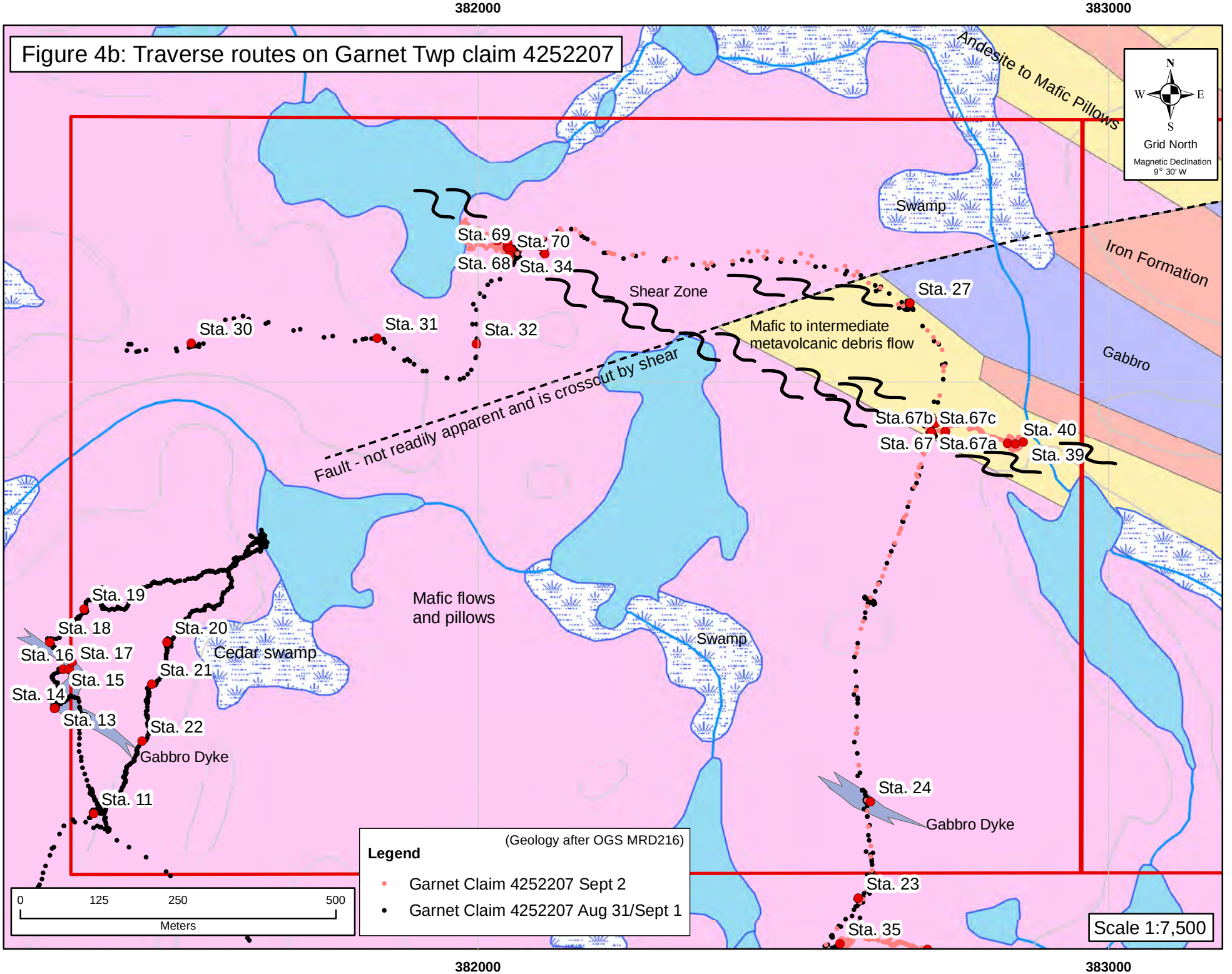


Figure 4b: Traverse routes on Garnet Twp claim 4252207
382000
383000
5288000
Andesite to Mafic Pillows
Iron Formation
Gabbro
Swamp
Shear Zone
Mafic to intermediate
metavolcanic debris flow
Fault - not readily apparent and is crosscut by shear
Mafic flows
and pillows
Cedar swamp
Gabbro Dyke
Gabbro Dyke
Sta. 69
Sta. 70
Sta. 68
Sta. 34
Sta. 27
Sta. 30
Sta. 31
Sta. 32
Sta.67b
Sta.67c
Sta. 40
Sta. 67
Sta.67a
Sta. 39
Sta. 19
Sta. 18
Sta. 20
Sta. 16
Sta. 17
Sta. 21
Sta. 15
Sta. 14
Sta. 13
Sta. 22
Sta. 11
Sta. 24
Sta. 23
Sta. 35
N
W
E
S
Grid North
Magnetic Declination
9° 30' W
(Geology after OGS MRD216)
Legend
Garnet Claim 4252207 Sept 2
Garnet Claim 4252207 Aug 31/Sept 1
0
125
250
500
Meters
Scale 1:7,500

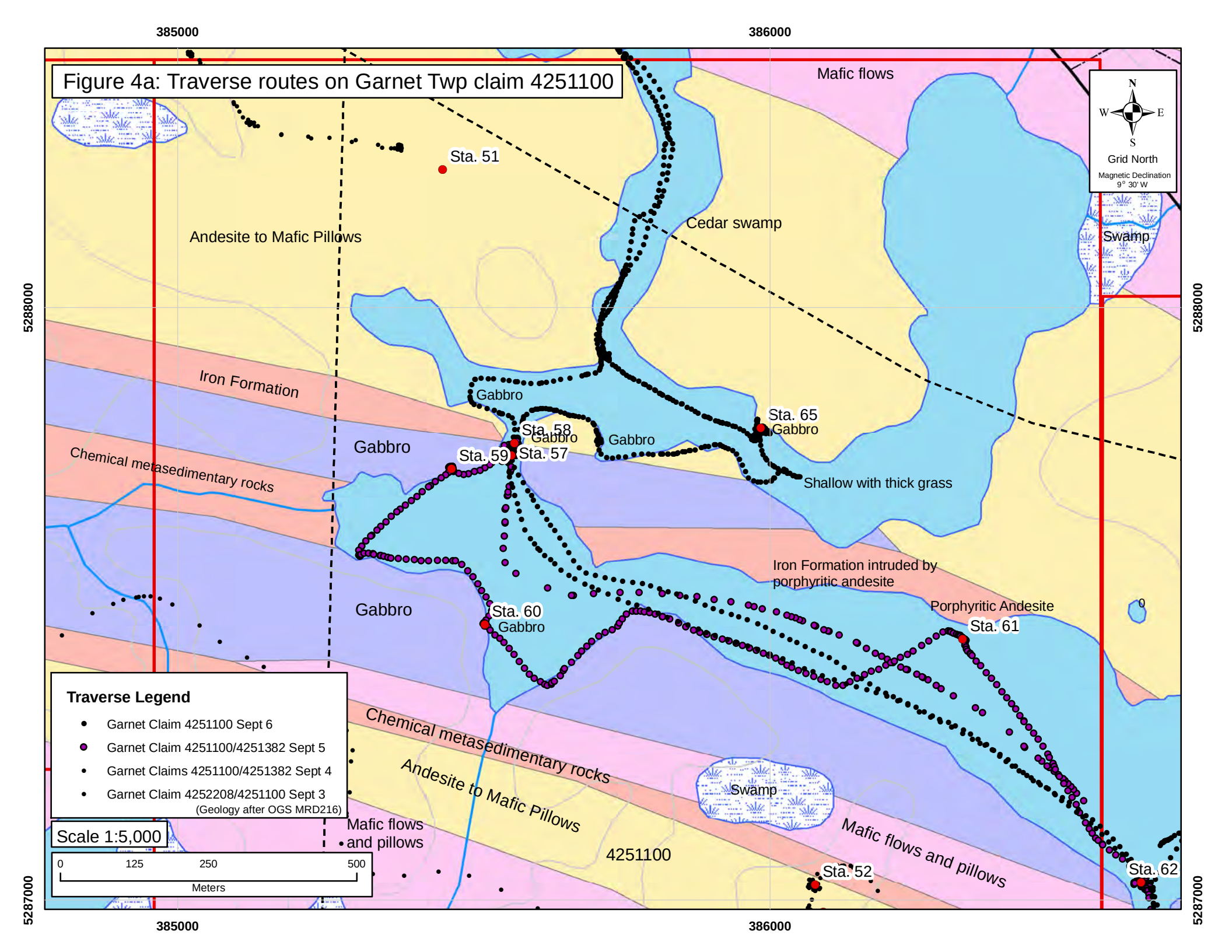
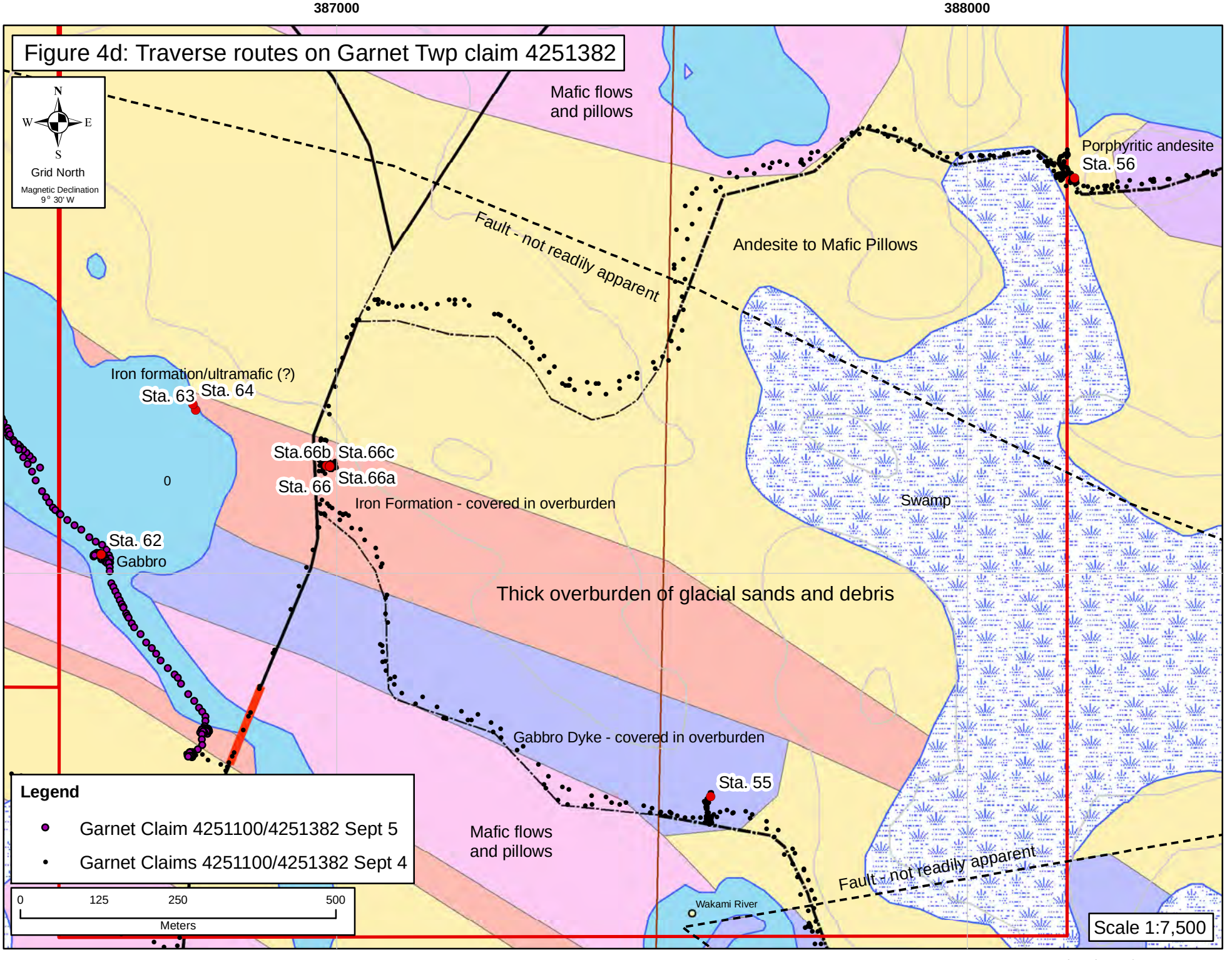


Figure 4a: Traverse routes on Garnet Twp claim 4251100
385000
386000
5288000
5287000
Mafic flows
Sta. 51
Andesite to Mafic Pillows
Cedar swamp
Swamp
N
W
E
S
Grid North
Magnetic Declination
9° 30' W
Iron Formation
Gabbro
Chemical metasedimentary rocks
Sta. 58
Gabbro
Sta. 59
Sta. 57
Gabbro
Sta. 65
Gabbro
Shallow with thick grass
Iron Formation intruded by
porphyritic andesite
Porphyritic Andesite
Sta. 61
Gabbro
Sta. 60
Gabbro
Chemical metasedimentary rocks
Andesite to Mafic Pillows
Swamp
Mafic flows and pillows
Mafic flows
and pillows
4251100
Sta. 52
Sta. 62
Traverse Legend
Garnet Claim 4251100 Sept 6
Garnet Claim 4251100/4251382 Sept 5
Garnet Claims 4251100/4251382 Sept 4
Garnet Claim 4252208/4251100 Sept 3
(Geology after OGS MRD216)
Scale 1:5,000
0
125
250
500
Meters



(Geology after OGS MRD216)