BRITISH TRON ROSS TRON ROSS TRON ROSS Ministry of Energy, Mines & Petroleum Resources Mining & Minerals Division BC Geological Survey ASSESSMENT F TITLE PAGE AND	
AUTHOR(S) V.T. S'HEARER, M.Sc., P.Geo SIGNATURE(S)	
NOTICE OF WORK PERMIT NUMBER(S)/DATE(S) M-X-216 YEAR OF WORK - STATEMENT OF WORK - CASH PAYMENT EVENT NUMBER(S)/DATE(S) EVENT # 4810 798	
PROPERTY NAME <u>IRON ROSS PROJECT</u> CLAIM NAME(S) (on which work was done) <u>ROSS</u> <u>Tenure # 503831</u>	
COMMODITIES SOUGHT	031)
LATITUDE <u>50 ° 8 ' 39 "</u> LONGITUDE <u>125 ° 58 ' 25 "</u> (at centre of w         OWNER(S)         1) <u>J. T. SHEARER</u> 2)	ork)
MAILING ADDRESS <u>Unit 5 - 2330 TYNER ST.</u> <u>PORT COQUITLAM, B.C.</u> OPERATOR(S) [who paid for the work] 1) <u>HOMEGOLD RESOURCES Ltd</u> 2)	
MAILING ADDRESS As above.	
PROPERTY GEOLOGY KEYWORDS (lithology, age, stratigraphy, structure, alteration, mineralization, size and attitude): The Claims are underlain by Quationo Limestone in Contact with Triase bacalts intruded by the Adams River batholith, Massive Magnetite is with garnet-epidote skarn, along contacts of the limestonet basalt. Con in 2005 was relogged. REFERENCES TO PREVIOUS ASSESSMENT WORK AND ASSESSMENT REPORT NUMBERS Assessment Report (1983), byt 27, 438 (2003)	12 Karmuten Regociated re dr. U.S.

TYPE OF WORK IN THIS REPORT	EXTENT OF WORK (IN METRIC UNITS)	ON WHICH CLAIMS	PROJECT COST APPORTIONED (incl. support)
GEOLOGICAL (scale, area)	1 1	)	
Ground, mapping	checking ground.	503831	2000
Photo interpretation	0		2000
GEOPHYSICAL (line-kilometres)			
Ground			
Magnetic			
Electromagnetic			
Airborne			
GEOCHEMICAL (number of samples analysed for)			
Soil			
Silt			
Rock			
DRILLING (total metres; number of holes, size) Core Non-core	ogging core	50383/	8,500
RELATED TECHNICAL			
Sampling/assaying			
Petrographic			
PROSPECTING (scale, area)			
PREPARATORY/PHYSICAL			
Line/grid (kilometres)			
Topographic/Photogrammetric			
Legal surveys (scale, area)			

# **GEOLOGICAL ASSESSMENT REPORT** on the **IRON ROSS PROJECT**

(TENURE # 503831) **MX-8-216** LATITUDE 50°18'39"N/LATITUDE 125°58'25"W UTM10 5577421N+288285E

## **SAYWARD AREA, ELK CREEK** NANAIMO MINING DIVISION NTS 92K/05W (92K.031)

for

Homegold Resources Ltd. Unit 5 – 2330 Tyner Street Port Coquitlam, BC **V3C 2Z** 

By

**BC Geological Survey Assessment Report** 32309

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February 1, 2011

Fieldwork between June 1, 2010 and November 15, 2010

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#### SUMMARY

- 1) This Assessment Report documents a re-logging of diamond drill core in 2010 from a program done in 2005 to further assess the resource potential for magnetite in the Sayward Area. This 2005 drilling was not filed for assessment credit.
- 2) The former Ross, Iron Ross and Iron Bethea Claims (totalling 22 modified grid units) cover 4 main magnetite showings were converted in MTO in 2005 to Tenure #503831 (totalling 42 cells or...).
- 3) The area is 6 km from tidewater on Kelsey Bay at the town of Sayward and about 52 km north of Menzies Bay.
- 4) The Iron Ross and Iron Bethea magnetite showings are a short distance (400m) west of the Iron Mike past producer.
- 5) Initial ore reserves at the Iron Mike mine were approximately 700,000 tons to 1.15 million tons @ 62% Fe (Atherton, 1983). Mining took place in 1965-1966. Drilling by 1965 delineated reserves of 688,277 tonnes proven and 266,983 tonnes probable grading 43.5% iron (Hill & Stark, 1965). Production by Orecan Mines Ltd. in 1965-1966 totalled 168,735 tonnes (82,862 tonnes of 62.25% concentrate). A further 29,937 tonnes of concentrate was shipped in 1969.
- 6) Extensive geological mapping, airborne and ground magnetometer work was completed by Dickenson Mines Limited in 1983. Four large ground magnetic anomalies coinciding with massive magnetite outcrops were identified by the 1983 work by Dickenson Mines Ltd.
- 7) The claims are underlain by garnet-epidote-magnetite skarn, which occurs along the contact between underlying Upper Triassic Karmutsen Formation volcanics and overlying Upper Triassic Quatsino Formation Limestone. Drilling in 2002 confirmed the presence of magnetite and skarn zone also totally within the limestone.
- 8) The largest 1983 magnetic anomaly is called the Iron Ross (formerly the Iron Dick). As defined by the 5000 gamma fluxgate contour its dimensions are 120m by 60m. Massive magnetite assayed (in 1983) 64.15% soluble Fe. A small massive magnetite showing 500m northwest of the anomaly was sampled in 1997 using a saw to cut a channel sample (now called the Iron Steve Zone).
- 9) Trenching in February 2002 has exposed the massive magnetite outcrop on the Iron Ross Zone over a length of 60m and thickness of at least 4m. Thirteen diamond drill holes were drilled at the Iron Ross Zone prior to 1965. However, the results of this drilling is not currently available.
- 10) Specific Gravity measurements average 5.1 with the following assay results

$AI_2O_3$	CaO	Fe <sub>2</sub> O <sub>3</sub>	K <sub>2</sub> O	MgO	MnO	Na <sub>2</sub> O	$P_2O_5$	SiO <sub>2</sub>	Zn	V	S
0.46	0.47	91.00	0.79	0.16	0.21	0.29	0.05	2.95	330	14	<0.01

- 11) 400m south of the Iron Ross is the Iron Bethea (formerly the Iron Mac) anomaly measuring 60m by 40m indicates a shallow southwest dip. Massive magnetite assayed (in 1983) 63.1% soluble Fe. Eight diamond drill holes were completed at the Iron Bethea Zone prior to 1965. However, the results of this drilling is not currently available.
- 12) The Iron Herb I and Iron Herb II magnetometer anomalies occur 750m north of the Iron Ross showing. Assays for skarn and magnetite at the poorly exposed Iron Herb II (1983) is 26.0% soluble Fe.
- 13) Bulk samples of 150 tonnes was excavated in November 2002 and continuing geological mapping completed.
- 14) Trenching was completed in February and October 2002 along line 11W (65m) and along 10+70W (75m) within gently dipping Quatsino limestone. The massive magnetite outcrop was stripped along a width of 65m.
- 15) A small bulk sample was excavated, trucked to Port Hardy and crushed to 7/8" minus. Various tests were conducted by OCL Industries for sandblasting purposes and by Ocean Cement for super heavy concrete.
- 16) Percussion drilling in October 2002 on the Iron Ross totalled 970 feet (295.66m) in 17 holes mainly around the Iron Ross surface showing and 2002 trenching.
- 17) Assays indicate zinc is uniformly low, likewise tungsten, mercury and cobalt. Lead, copper and arsenic are geochemically elevated in some samples especially the lower skarn zones. Sulphur is uniformly low. The gold shows more variation but the highest is only 0.5 ppm in hole 17.

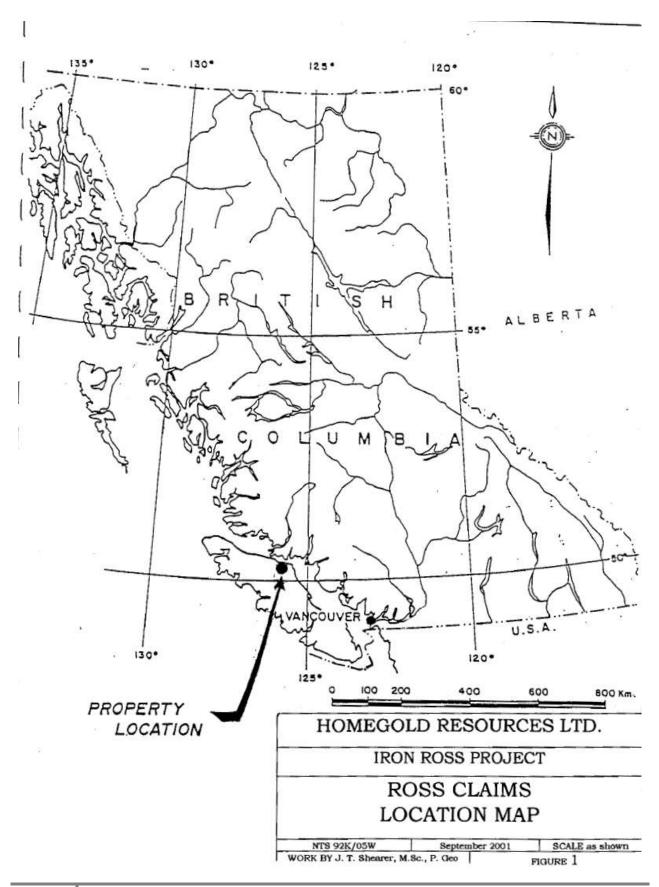
The XRF major elements shows some variation in the lower intervals logged as magnetite. The silica is elevated and this could be a function of sample collection. However, the limestone samples also have relatively higher  $SiO_2$ .

- 18) A ground magnetometer survey was completed in the summer of 2003 on well cut out lines totalling 12.0 line kilometres.
- 19) The Iron Steve Zone exhibits an intense, well defined, ground magnetometer anomaly approximately 30m wide by at least 150m long. Much of the anomaly has a 20,000 gamma contrast. The exact width is poorly constrained due to fewer lines to the south and the deposit appears to swing to the northwest. <u>Ten additional drillholes are recommended</u>.
- 20) The Iron Mike produced a limited tonnage in 1965-1966. The present survey indicates a lens of magnetite dipping to the southwest. A decline was collared on this lens but was not economically feasible. Old drill data shows a considerable zone of magnetite, which would only be amenable to underground mining methods. No drilling recommended.
- 21) A small magnetite zone is suggested by higher readings on Lines 18 and 20 between the West Pit and the Main Pit. <u>Three holes are recommended to firm up previous intersections</u>.
- 22) A low order magnetic anomaly is present to the west of the West Pit. <u>Two to four drill holes are</u> <u>warranted</u>.

- 23) The area between the Main Pit and the Iron Bethea Zone has a small anomalous zone near the south side of a hill. Prospecting and mapping are recommended.
- 24) The Iron Herb I Zone is a strong, continuous magnetic high extending a distance of at least 290 metres in length. Several drill holes are recommended as constrained by road access. Some new road and excavator trenching will need to be built to access the eastern part of the anomaly.
- 25) The Iron Herb II Zone is outlined by a magnetic anomaly about 120 metres long. At least four drill holes should be positioned along the main road and north branch to test the subsurface of the zone near Lines 39 and 61.
- 26) Line 41 is situated on the trench and drill fence on the south side of the Iron Ross deposit. From percussion drill data, the Iron Ross deposit is covered by 10 to 15 metres of limestone in the vicinity of 4000 to 7000 gamma total field magnetic response. Four holes are recommended to test for south continuations indicated on Line 42.
- 27) An area of 4000 gamma readings is present on the west side of Lines 45 and 46 in steeper terrain. Detail prospecting is recommended.
- 28) Iron Bethea is misplotted. The Iron Bethea deposit is indicated on Line 11, Line 53 and Line 52. The zone covers an area 60 to 90 metres long by 20 to 40 metres wide. Road extension of 190m and drilling is recommended.
- 29) The lines southeast of the Iron Bethea deposit (Lines 55-58) all exhibit low background values suggesting low magnetite potential.
- 30) Further percussion drilling was completed in the fall of 2003 on the Iron Steve zone and farther east for a total of 31 holes of 1403 feet (427.64m) of drilling.
- 31) A follow-up diamond drill program and bulk sample are recommended for 2011, as outlined in this report, to explore for magnetite mineralization and define geological structure.

Respectfully submitted,

J. T. Shearer, M.Sc., P.Geo. February 1, 2011



#### vi Geological Assessment Report on the Iron Ross Project February 1, 2011

#### INTRODUCTION

The Iron Ross Project is approximately 6 km from tidewater, west of the Community of Sayward, B.C. The main showings of massive magnetite are 400m west of the Iron Mike Mine, which operated in 1965-1966, producing from 168,735 tonnes about 112,799 tonnes of 62.26% iron concentrate.

Extensive airborne and ground magnetometer surveys were completed by 1983 by Dickenson Mines Limited, which outline 4 additional large massive to skarnified magnetite zones to the west of the Iron Mike main pit.

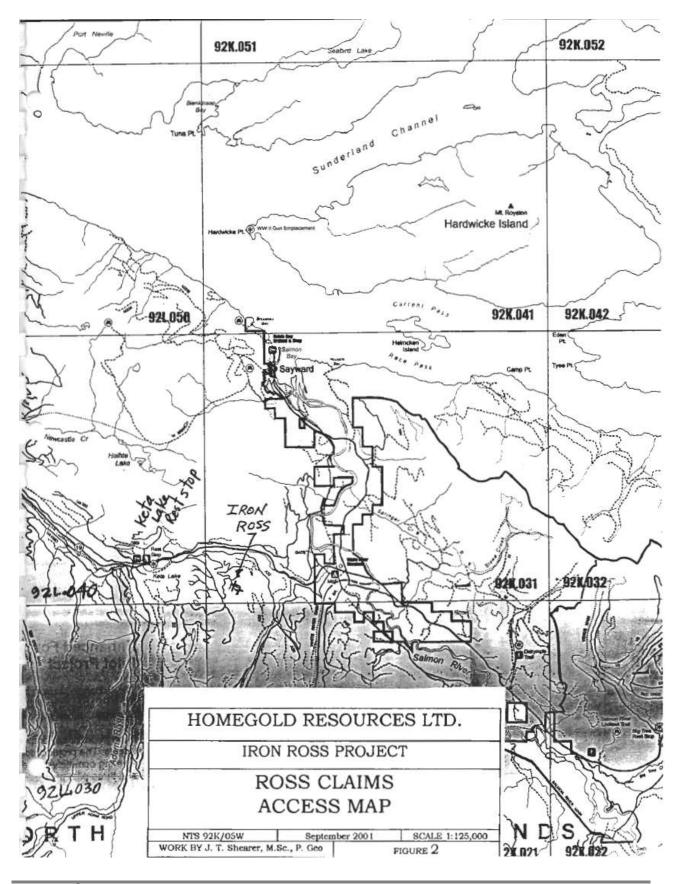
Magnetite concentrates from the Iron Mike were apparently shipped (by ocean-going vessel) out of Menzies Bay 52.2 km to the south. However, as part of a major reorganization of their island operations, the large dryland Log sort operated in Sayward by Weyerhaeuser is scheduled to be phased out during the near future, which may open up opportunities to barge out of Kelsey Bay. Most Weyerhaeuser logs will now go out of Menzies Bay. The Eve River log sort to the north has already been shut down.

Much of the magnetite produced in British Columbia at the present time is from a sophisticated reprocessing of tailings (Craigmont) or small time hit and miss reprocessing coarse waste dumps (Texada Island and elsewhere). Possible markets for magnetite are: heavy aggregate for high-density concrete, heavy media for coal washing, sandblasting abrasives, high-density filter media and radiation shielding aggregates. Two major construction projects under consideration are the expansion of the sub-atomic research TRIUMF facility at the University of British Columbia and the Sumas-Duncan Natural Gas Pipeline (for pipe anchors) by BC Hydro and Williams Pipeline Company. There may also be increasing application to special designed heavy concrete foundations in areas of high hydrostatic ground pressure in areas like Richmond, B.C.

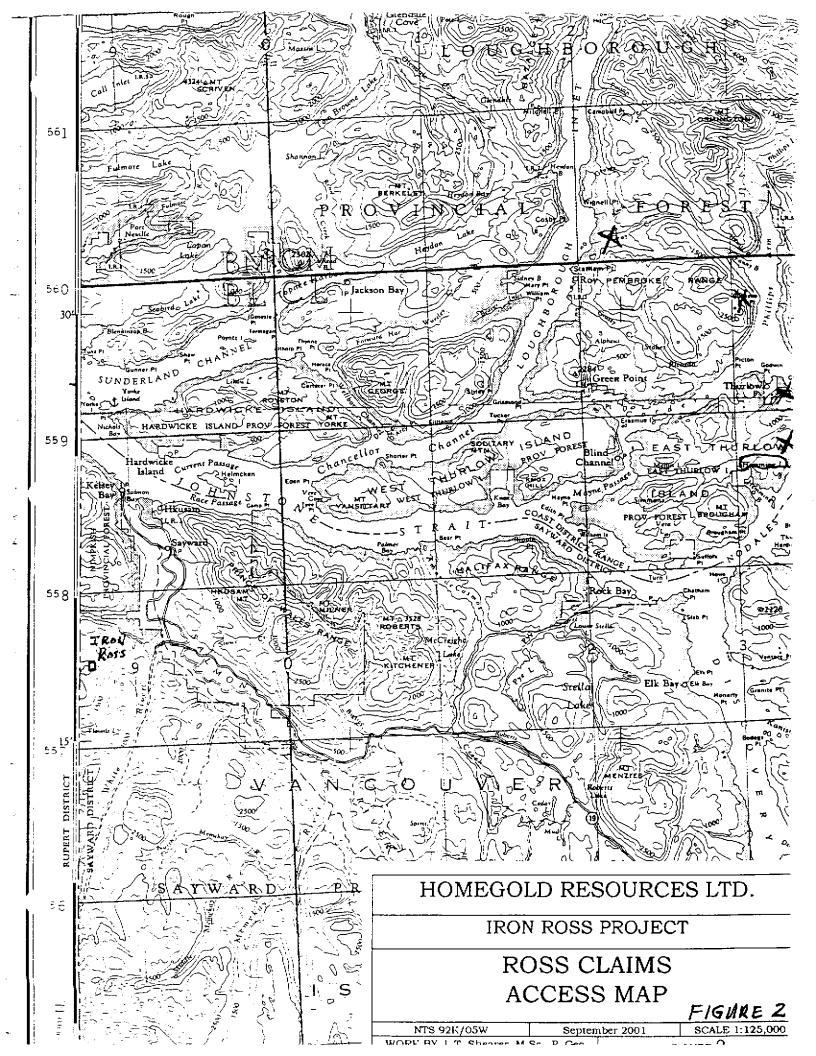
An alternative market may be as a raw material for cement plant use. The current supply from Anyox slag assays 36.4% SiO<sub>2</sub>, 5.1% Al<sub>2</sub>O<sub>3</sub> but only 45% Fe<sub>2</sub>O<sub>3</sub>. Anyox slag also assays typically about 3% SO<sub>3</sub> and has a relatively high Bond work index of >23. Bond work index of 10.7 and 15.0 have been obtained for magnetite from other properties on Vancouver Island. The average specific gravity for 3 samples from the Iron Ross Zone is 5.1.

Specifications for sandblasting are minus 20 mesh plus 100 mesh with most of the size distribution in the 50 to 70 mesh fractions. Arsenic should be below 50 ppm for total metals.

Product constraints for use as heavy media coal washing include (1) greater than 4.7 specific gravity, (2) greater than 95% magnetics, (3) not less than 90% passing 235 mesh (45 microns) and (4) not more than 30% passing 10 microns. Testing was conducted in 2003 to produce heavy media concentrate for use in marketing and market evaluation.



2 Geological Assessment Report on the Iron Ross Project February 1, 2011



#### LOCATION and ACCESS

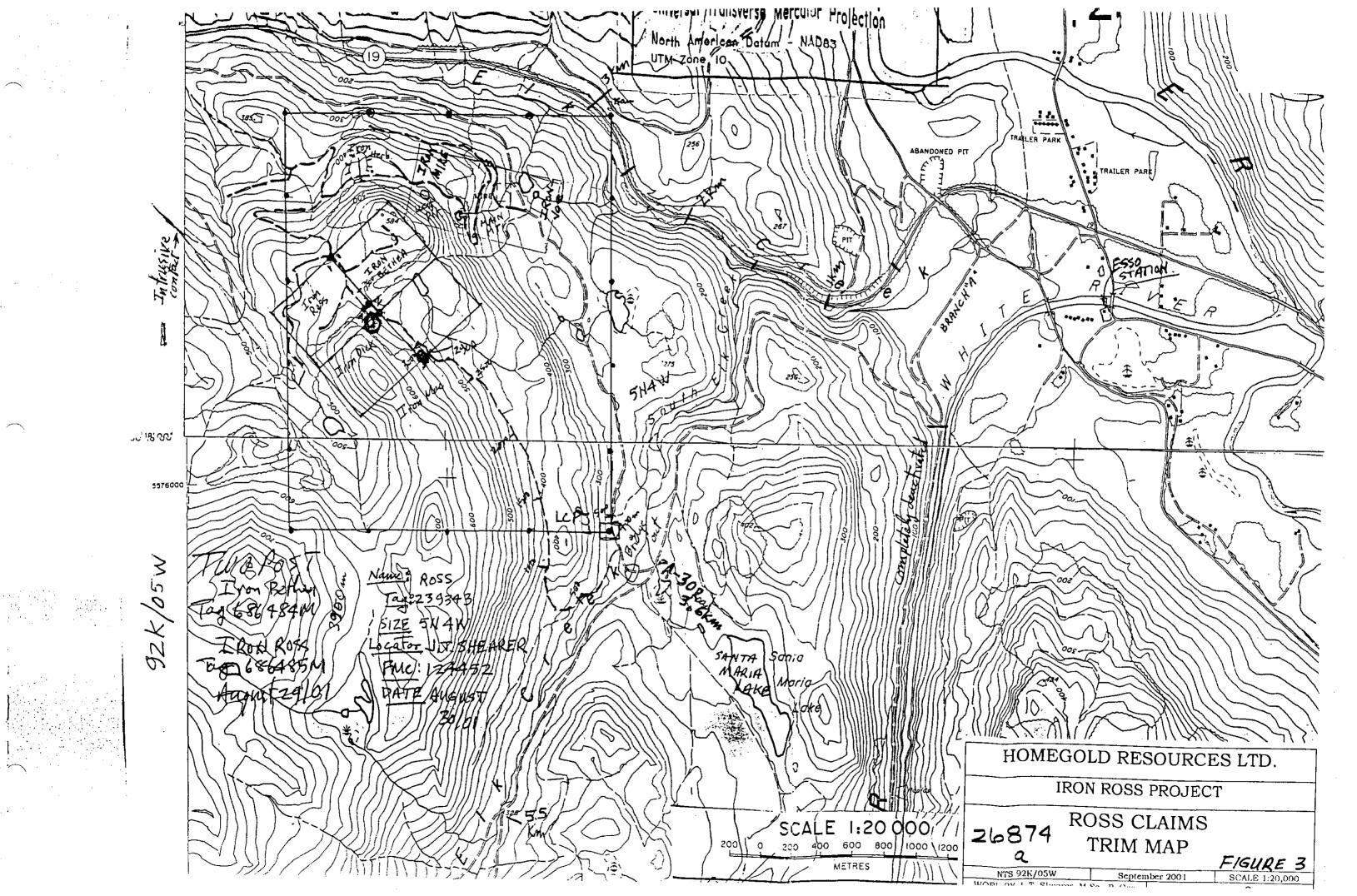
The Iron Ross Project is located about 6 km from tidewater at the town of Sayward B.C. Access is currently from the Elk Creek Mainline logging road, which crosses the Island Highway (Hwy 19) just east of the Keta Lake rest stop.

The magnetite showing on the Iron Ross (formerly the Iron Dick) is at 5.13 km along the Elk Creek Mainline from the Highway.

The area is within Tree Farm License #39 owned by Weyerhaeuser (North Island Timberlands, Block 2). Some of the logging in the Sayward Area is done on contract to Weyerhaeuser by Dyer Logging, Superintendent: Bruce Flower, phone 250-282-3381.

In the past, the Iron Mike Mine area was accessed by the White River road, Branch A and then along the Branch A-32. However, the Bridge on A-30 and 4-32 over Tlowlis (lower Elk) Creek has been recently removed but plans call for this bridge to be re-installed and road construction built to access stands of old growth around the Iron Bethea area.

The claims have a variety of second growth and old growth patches of forest. Some of the second growth dates to the 1950's and 1960's along A-32 road. The second growth on the Elk Creek Mainline appears to be in the late 1980's and some harvesting is still taking place along A-30 and Elk Creek 500 branch. Elevations range from 800 feet on the east to 3000 feet on the west.



#### **CLAIM STATUS**

The Iron Ross (Sayward) Project consists of 1 converted cell claim as listed in Table I and shown on Figure 4.

Claim Name	Tenure #	Size (ha)	Cells	Date Located	Current Anniversary Date*	Owner		
"Ross"	503831	866.93	42	August 30, 2001		J. T. Shearer		
Total 42 Cells								

TABLE I					
List of Claims					

\*by application of assessment work documented in this report.

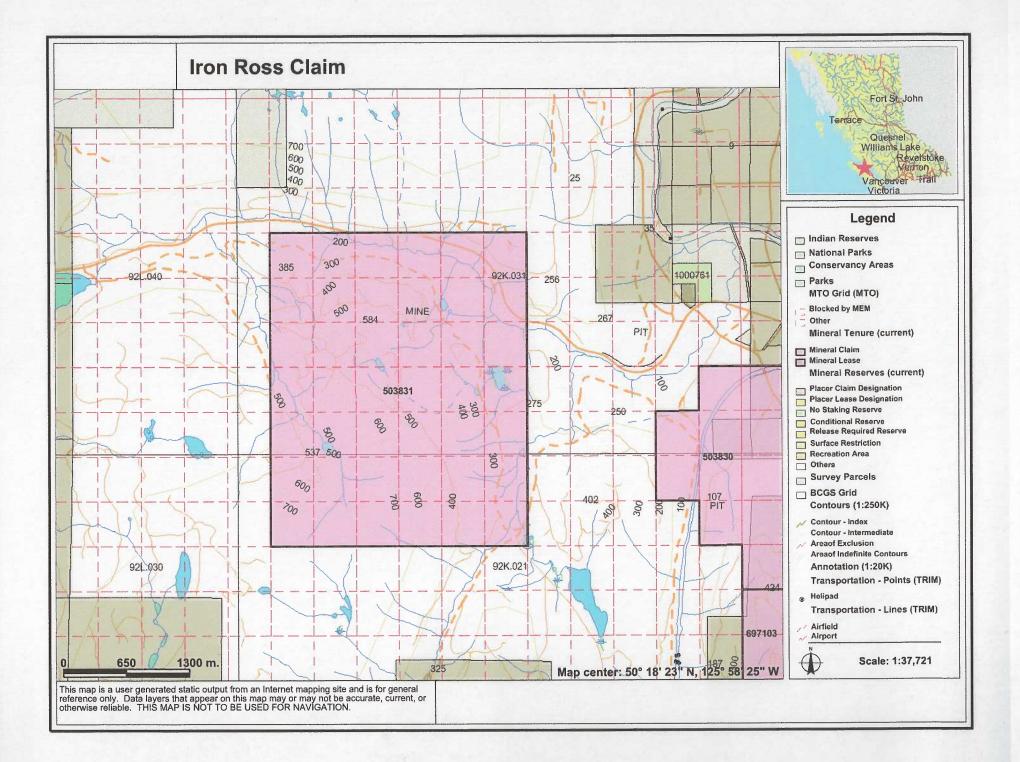
Mineral title is acquired in British Columbia via the <u>Mineral Act</u> and regulations, which require approved assessment work to be filed each year in the amount of \$4 per hectare per year for the first three years and then \$8 per hectare per year thereafter to keep the claim in good standing.

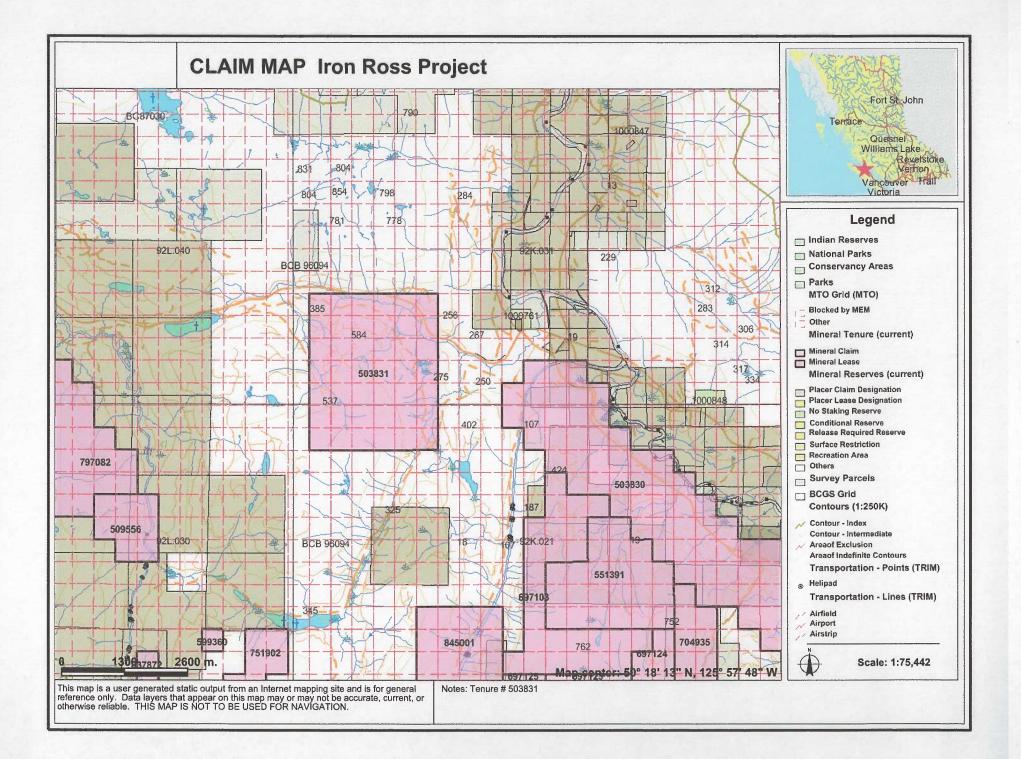
The original Ross claim and internal claims Iron Bethea and Iron Ross were converted in 2005 within the MTO (online) system.

Under the present status of mineral claims in British Columbia, the consideration of industrial minerals requires careful designation of the products end use. An industrial mineral is a rock or naturally occurring substance that can be mined and processed for its unique qualities and used for industrial purposes (as defined in the *Mineral Tenure Act*). It does not include "Quarry Resources". Quarry Resources includes earth, soil, marl, peat, sand and gravel, and rock, rip-rap and stone products that are used for construction purposes (as defined in the *Land Act*). Construction means the use of rock or other natural substances for roads, buildings, berms, breakwaters, runways, rip-rap and fills and includes crushed rock. Dimension stone means any rock or stone product that is cut or split on two or more sides, but does not include crushed rock.

The northeast part of the Ross Claim was taken up by 2-post claims Iron Mike (231490) and Iron Joe (231489). These two claims were owned by Margret Birkenhead 33.3334%, Eileen Hartt 33.3322%, and Audrey Larsen 33.3334% lapsed in 2004.

In August 2002 the Iron Ross claims were optioned to Hillsborough Resources Limited and then in 2004 to Eagle Industrial Corp. The claim is now owned by J. T. Shearer.





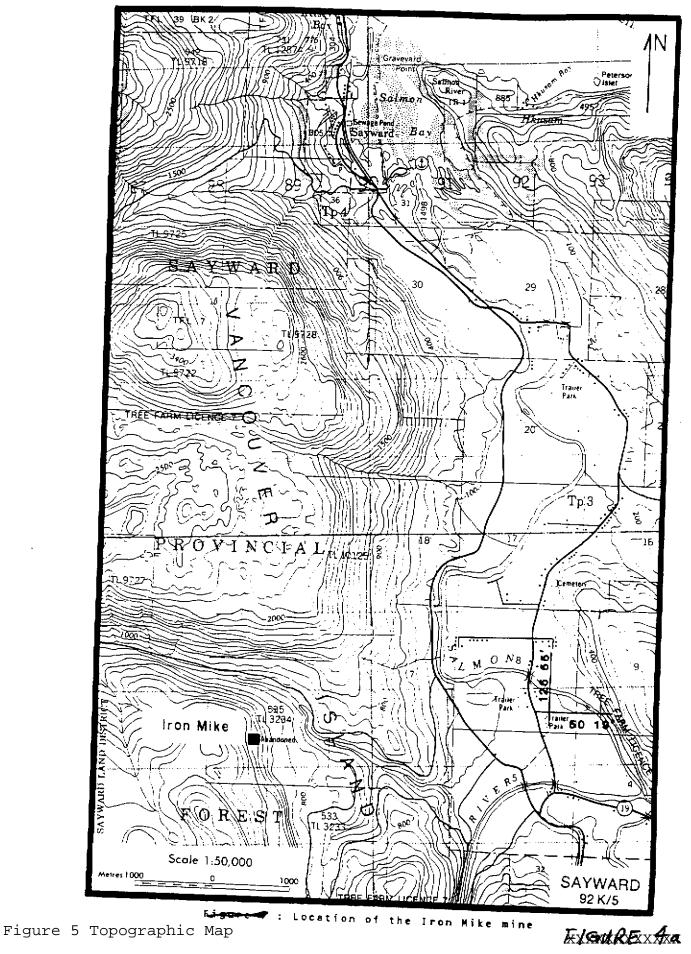
#### HISTORY

The mining history of the area is closely tied to the development of the Iron Mike mine. A summary of the main events is as follows:

- 1959 Iron ore discovered by R. Hartt.
- 1960 Property optioned to Marwell Construction from R. Hartt.
  - 19 drill holes for 1924 feet (Ex diameter)
  - 13 were drilled on Iron Mike claim.
  - Dip needle survey over Iron Mike (Main Zone) deposit and Iron Mac, Iron Dick and West Zone deposits (all on Ross Claim)
- 1961 Hartt & Associates diamond drilling (EX diameter) (24 drill holes of 2100 feet) and prospecting of claim.
  - Diamond drilling totalling 2,100 feet in twenty-four holes was done to the end of 1961 on the Iron Mike, Iron Dan, Iron John and Iron dick claims, and some stripping was done on the iron Ken. The diamond drill holes were grouped in four areas.
- 1963 Inter-Can Development Ltd. optioned the property on a ten year renewable lease royalty agreement.
  - Stripping and diamond drilling began, claims assigned to Orecan Mine Ltd.
- 1964 5,000 feet diamond drilling by Orecan.
  - -Stripping in preparation for open pit mining.
  - Reserves 700,000 tons to 1.15 million tons at 62% Fe.

-Iron Mike, Company office, 613, 744 West Hastings Street, Vancouver. The Company has under lease the Iron Mike (Hartt) property, 4 miles southwest of Sayward and 3 miles west of the junction of the Salmon and White Rivers. A crew of eight men constructed 3,000 feet of road, did 1,224 feet of diamond drilling in 14 holes, and completed the excavations for the crushing sections of the mill. A considerable amount of ore dressing testing was done in order to establish a satisfactory mill flow sheet.

- 1965-66 Most of magnetite on Main and West Pit Zones that was available to open pit mining, no methods are recorded.
  - Mine closed, mill sold.
- 1966-1983 No known work on claims.
- 1983 airborne Magnetometer by Dickenson Mines Limited followed by geological mapping, extensive sampling and ground magnetometer surveys.
- 1997 Area staked by J. L. Paquet of Campbell River, who re-staked and held the claims till 2001.
- 2001 Area acquired by staking by J. T. Shearer.
- 2002 Trenching and bulk sampling Jan.-Feb. 2002 and option to Hillsborough Resources Ltd. in August 2002.
- 2003 Road construction, bulk sampling, ground magnetometer. Further percussion drilling, Line cutting, geological mapping.
- 2005 Bulk sample, drill blast, truck, crush to 2 size products, barge product to Vancouver
- 2006 Proposed diamond drilling.



#### **REGIONAL GEOLOGY**

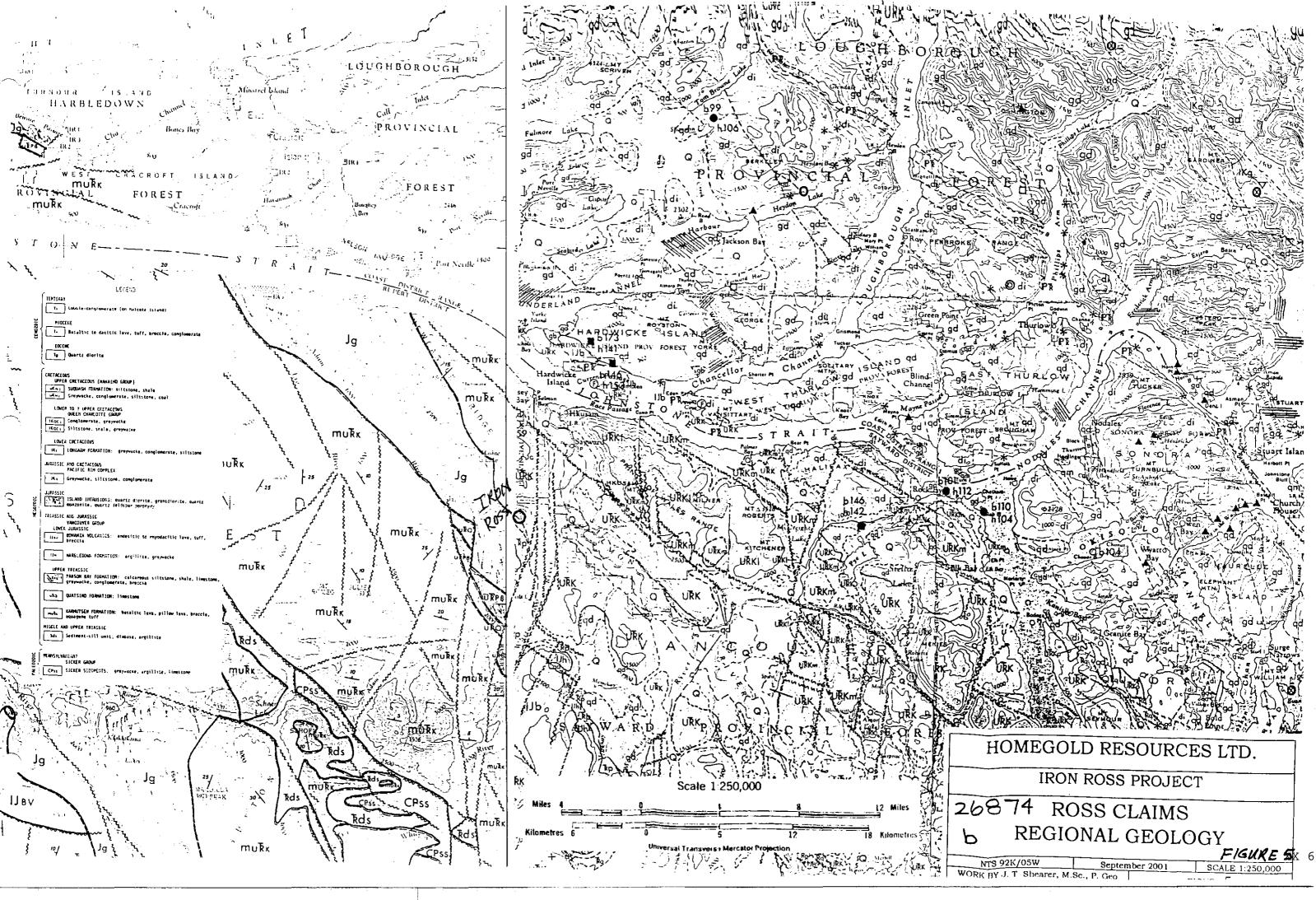
Regional geology has been mapped by Muller et.al. (1974) (92L) and Roddick (1980) (92K) and is published as Geological Survey of Canada Paper 74-8 on the general area to the west of the Iron Ross Project (Muller, Northcote and Carlise, 1974). Northern Vancouver Island and Adjacent Mainland has a complex structural history with frequent rejuvenation of major structures. All Palaeozoic rocks are affected by a series of southeast trending, upright to overturned, southwest-verging folds. An inspection of the regional geology map, Figure 5 (Roddick, 1980, O.F. 480), shows several elongate, fault-bounded slices of metasedimentary rocks sandwiched between separate and distinct plutons of the Coast Plutonic Complex.

The rocks underlying the claim group are part of the eastern limb of regional synclinal structure. The oldest rocks are in the area of Late Triassic, pillowed and porphyritic basalt of the Karmutsen Formation. This formation is estimated to be greater than 3000m thick.

The Quatsino Formation conformably overlies the Karmutsen Formation. The formation consists of Limestone up to 900m thick. Granitic intrusives are common within the formation and the limestone has been, in places, converted to marble and skarn.

The early Jurassic Bonanza Formation conformably overlies the Quatsino limestone. The lower part of the formation is composed of carbonaceous shale, calcareous shale and greywacke, occasional tuff units are present. The upper half of the formation is composed of dacitic to andesitic lavas with tuffs and breccias.

The Adams River Batholith intrudes all of the above rock types. In the Adams River area the intrusive is mainly granodiorite in composition with some quartz diorite along the lower contacts. The intrusive is early Jurassic in age. The contact with the lower Quatsino Formation is concordant in most places.



#### LOCAL GEOLOGY and MINERALIZATION

The area around the Main and West Pit (Iron Mike) areas is underlain by Karmutsen Formation basalt and an intravolcanic band of limestone, which is thought to be part of the Karmutsen Formation rather than the Quatsino Formation. The magnetite occurs on the same horizon as the limestone band and within the basalt (Atherton, 1983).

The volcanics that underlie the limestone and magnetite are pillowed to massive, fine-grained to porphyritic basalts. The pillows indicate tops to be to the west. The volcanics are slightly magnetic to non-magnetic and are generally fine grained. The rocks strike north-south and dip about 25° west. The volcanics are light grey to buff on the weathered surface to dark grey on the fresh surface. The porphyritic rocks contain hornblende phenocryst up to 1 cm long. Slickensides are present along some of the joint planes indicating some movement.

The upper basalt is similar to the lower basalt with more massive porphyritic lava than the pillowed variety. The rock is basically unaltered except in the area of magnetite concentrations. There is a 1-2m band of highly sheared basalt above the magnetite in the Main Pit. The volcanics in the magnetite zone in the West Pit exhibit contact skarn metamorphism. Epidote is common throughout the rock unit.

There is an exposure of limestone along the access road below the Main Pit. The rock is crystalline, granular weathered and pitted. The unit strikes 16° and dips 40° west. Earlier drilling by Orecan indicates the limestone is not continuous (Atherton, 1983).

The ore remnants in the Main Pit are dark black medium crystalline nearly pure magnetite. The magnetite occurs as mainly massive to occasional thin bedded layers. In the West Pit area the magnetite occurs as irregular bands and lenses in a highly altered volcanic. The ratio of magnetite and altered volcanics is variable from section to section. The distribution of magnetite in the pit is shown on the sample sections accompanying this report from the 1983 work by Atherton.

A reference in the Annual Report of the Minister of Mines (ARMM) for 1965 mentions: "On the Jim Mineral Claim some 1,400 feet westward from the southwest corner of the Iron Mike Mineral Claim, six holes have been drilled in an area of about 100 by 200 feet. Massive magnetite was cut in core lengths of 27 to 63 feet, all near surface. On the Ken Mineral Claim, about 1,300 feet south-southwest of the same Iron Mike corner, three holes have been drilled, all of which cut magnetite in core lengths up to 10 feet. The Jim and Ken areas are about 1,300 feet apart; a line joining them is sub-parallel to the Iron Mike Zone."

It would appear that this reference is to the currently named Iron Ross and Iron Bethea magnetometer anomalies.

The rocks underlying the west grid #1 area appear to be higher in section than those in the Main Pit area. It is not known if the limestone that occurs on this grid is a second horizon above the Main Pit area or whether the section is repeated by faulting. The geology is shown on Map 7.

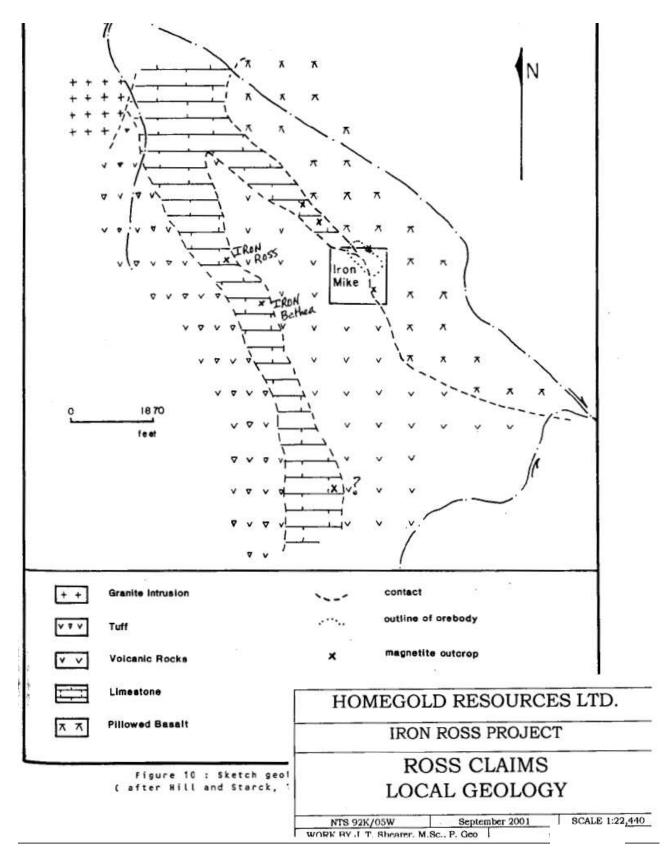


Figure 7 Local Geology (Generalized)

The volcanics below the limestone and magnetite are massive porphyritic to fine grained basalts. All of the outcrops are weakly magnetic. The rock strike north and dip  $20^{\circ}$  to  $40^{\circ}$  west.

The limestone occurs as a thin band in the volcanics. The rock has granular texture with some mica. The limestone occurs south of the baseline and is continuous for the length of the grid.

The magnetite occurs in two lensitic bodies. The outline of the occurrences has been outlined by the ground magnetic survey. The magnetite is poorly exposed. The Iron Bethea (formerly Iron Mac) occurrence is located between lines 7W and 8W. It is fine grained, massive nearly pure magnetite. One grab sample taken from the outcrop assayed 58% magnetic Fe. The Iron Ross (formerly Iron Dick) occurrence is exposed in magnetite outcrops located between lines 11W and 12W. Grab samples taken from these outcrops assayed 58.1% Fe and 66.6% Mag. Fe.

The magnetite in the Iron Ross (formerly Iron Dick) and Iron Bethea (formerly Iron Mac) occurrences is very similar to the magnetite in the Main Pit Zone indicated by the massive texture and lack of volcanic lenses in the magnetite.

Sampling in 1983 (Atherton, 1983, page 14) from the Iron Ross and Iron Bethea occurrences gave the following results:

	Sample #	% Mg. Fe Satmagan	% Sol. Fe	Description
Iron Bethea	1735	58.1	63.1	Massive magnetite
Iron Ross	1761	58.1	59.0	Massive magnetite
Iron Ross	1762	66.6	69.3	Magnetite and skarn

Tuff is present above the limestone. It consists of silicified tuff bands separated by limestone or other carbonate rich bands. The tuff is exposed on line 62W 1S and L O 1+25S. Abundant pyrite was seen in these two outcrops.

The upper basalts are fine grained and massive. They are mainly non-magnetic but some outcrops were faintly magnetic. This disseminated magnetite and the disseminated magnetite in the porphyritic basalt below the limestone might be the cause of the airborne magnetic high in the southeast part of the grid according to Atherton (1983).

The magnetite outcrop of the Iron Herb II deposit is much different than in the other occurrences. The Iron Herb II occurrence is located between lines 0 and 1E. The occurrence has one outcrop of lower grade magnetite and skarn that gave the following assay (Atherton, 1983):

		<u>Sol. Fe</u>	Mag Fe (Sat)
1758	26%		20.9%

The outcrop is not in the area of the highest magnetic anomaly and might not be representative of the whole occurrence. The magnetite occurs as lumpy concentration up to 1" in diameter in a greenish brown skarn. This showing is on a bench that extends north from the steep hill to the south of the grid. The position of the occurrence in relation to the Iron Herb I occurrence indicates faulting has occurred since the two occurrences have about 50 feet difference in elevation.

The Iron Herb I occurrence is not exposed in outcrop. Several large boulders occur north of the baseline that show the same lumpy appearance as the Iron Herb II showings.

#### PREVIOUS TRENCHING PROGRAM COMPLETED in OCTOBER 2002

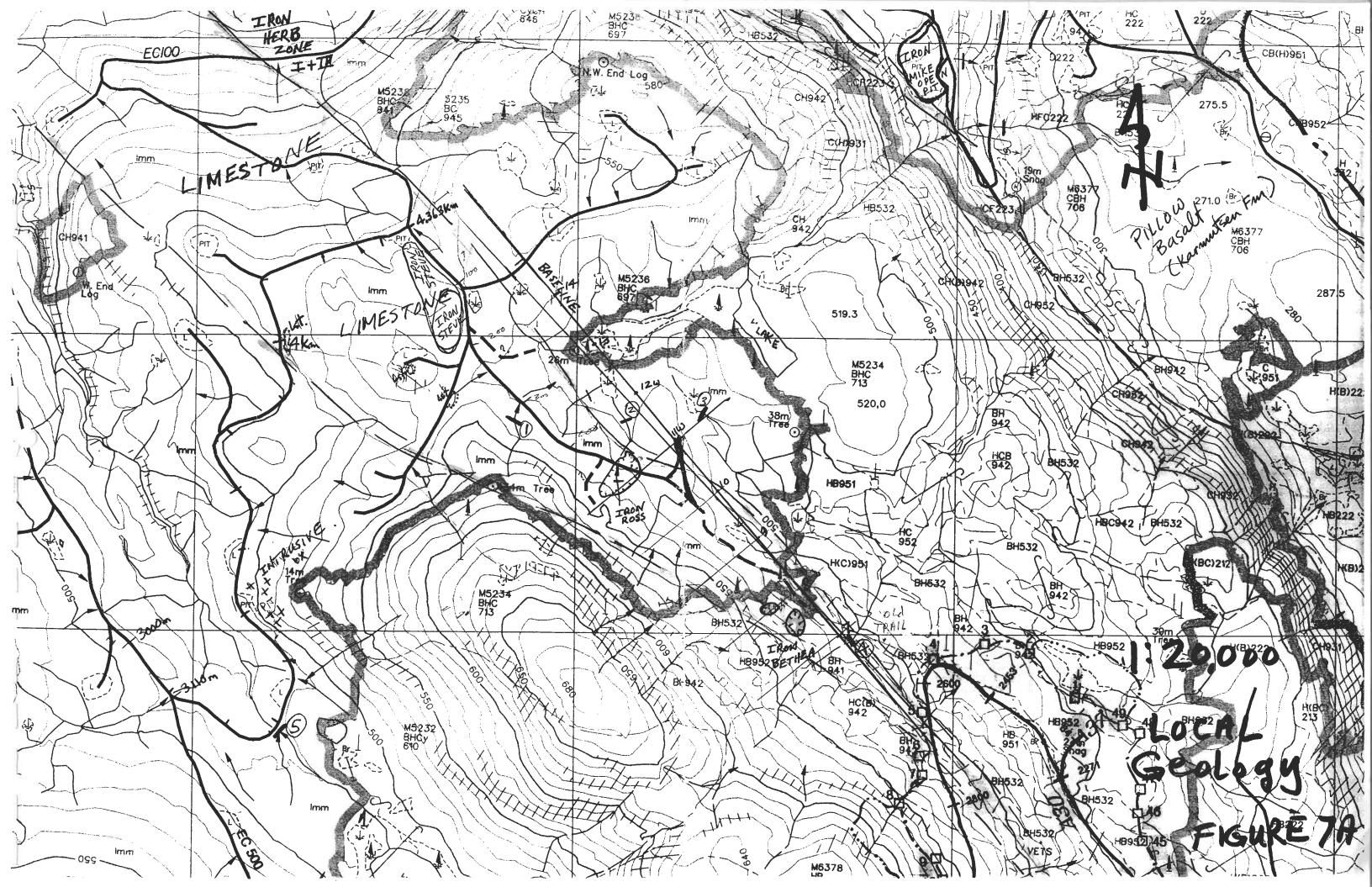
The work in 2001 to 2003 is outlined below:

- 1) Sampling & geological mapping
- 2) Road rehab and trenching

	Line 11W	Trail Building –	100m
Iron Ross	Line 10+75W		75m
	Line 11+25W		90m
	Saw Cuts Trench		31m
	7W		70m
Iron Bethea	7+50W		100m
	8W		<u>60m</u>
		Total Trail -	525m

- 3) Trenching, 150m of excavating
- 4) Excavate 10 tonnes for sandblasting media Crush to ½ inch minus Deliver to OCL in Surrey
- 5) Stripping of the Iron Steve Zone and producing a high grade bulk sample.

The trenching program completed in 2002 was a 75 metre trench along both line 11W and line 10+70W. Solid limestone bedrock was uncovered by this work. A trench was also completed along the 60m perimeter of the massive magnetite.



#### **PREVIOUS DIAMOND DRILLING (Prior to 1965)**

Coincident with the development and mining of the Iron Mike deposit prior to 1965-1966, there were a number of X-ray (in 1961) and small diameter core holes completed in the Iron Ross and Iron Bethea Zones, as outlined in Table II and plotted on Figure 10.

#### TABLE II DIAMOND DRILLHOLES IRON BETHEA ZONE

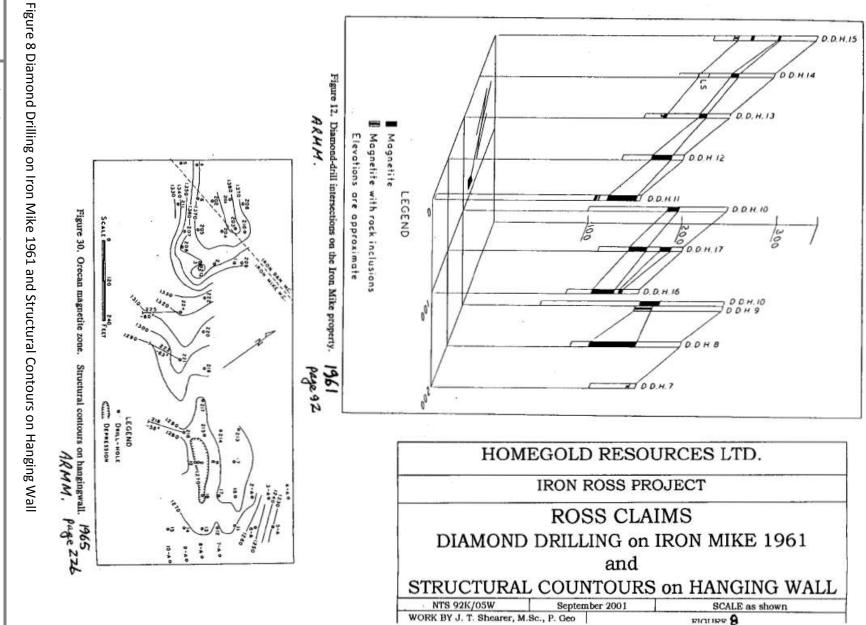
	Hole No.	Northing	Easting	Dip	Length	Azimuth	Remarks
1	X-1			-90		000	Prior to 1961
2	X-2			-90		000	Prior to 1961
3	XX-3			-90		000	Prior to 1961
4	501			-90	10' mag	000	Prior to 1965
5	502			-45	8' mag	050	Prior to 1965
6	503			-90	7' mag		1965
7	504			-45		050	1965
8	505			-45		230	1965

#### DIAMOND DRILLHOLES IRON ROSS ZONE

				Estimate Magnetite		
1	X-4		-90	663'	000	Prior to 1961
2	X-5		-90	27'	000	Prior to 1961
3	X-6		-90	35'	000	Prior to 1961
4	401		-90	42'	000	Prior to 1965
5	402		-90	35'	000	1965
6	403		-90	55'	000	1965
7	404		-90	35'	000	1965
8	405		-45	63'	230	1965
9	406		-45	27'	050	1965
10	407		-90		000	1965
11	408		-90		000	1965
12	409		-45		050	1965
13	410		-45		050	1965

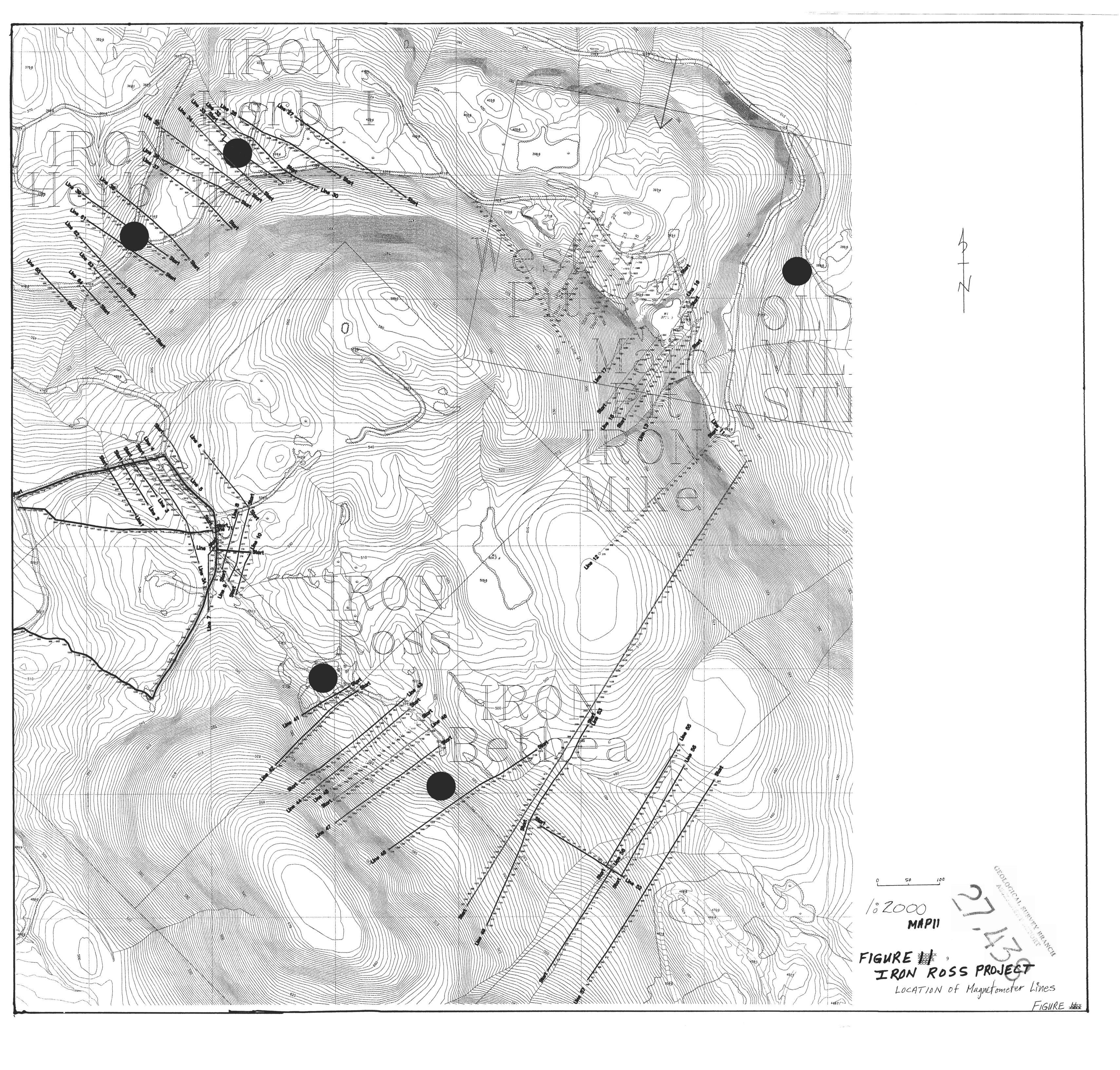
The drill logs and assays for this previous diamond drilling have not yet been located. The only reference to the results is contained in the Annual Report of the Minister Mines (ARMM) in 1965 pages 255 and 420:

"On the Jim Mineral Claim some 1,400 feet westward from the southwest corner of the Iron Mike Mineral Claim, six holes have been drilled in an area of about 100 by 200 feet. Massive magnetite was cut in core lengths of 27 to 63 feet, all near surface. On the Ken Mineral Claim, about 1,300 feet south-southwest of the same Iron Mike corner, three holes have been drilled, all of which cut magnetite in core lengths up to 10 feet. The Jim and Ken areas are about 1,300 feet apart; a line joining them is sub-parallel to the Iron Mike Zone."



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#### PREVIOUS PERCUSSION DRILLING OCTOBER 2002

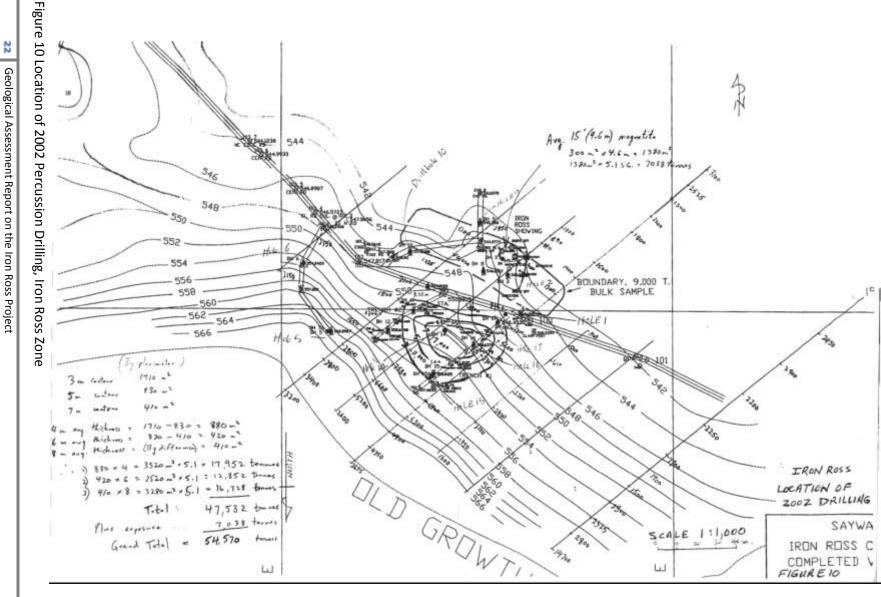
Percussion drilling in October 2002 totalled 970 feet (295.66m) in 17 holes mainly around the Iron Ross surface showing and in 2002 trenching as documented in Shearer (2002).

As the holes were drilled, the cuttings blown out of the holes were logged by J. Shearer, M.Sc., P.Geo. and a representative sample was collected in numbered plastic sample bags. These cutting samples are presently stored at the Homegold Office in Port Coquitlam.

Some limitations in using the percussion drill method were apparent. In hole #2002-1, limestone chips were easily recovered down to a depth of 45 feet but the lower contact was wet and the only return to surface was a small amount of yellow mud (gouge) along the contact. The lithology below 45 feet is unknown. A series of holes along Trench 2002-1 is shown on Figure 12 including Holes 2002-1,13,14, 15 and 16. Two lenses of massive magnetite were found completely contained within the limestone unit. The upper lens varied from 2m to 5m thick over a strike length of about 45 metres. From 3m to 5m below the upper lens, the lower lens varied from about 4m to 5m thick over the same strike length of 45 metres. Geological potential from these intersections suggest a range of about 50,000 tonnes of material rich in magnetite with a rough 1.5 to 2.0 stripping ratio. The stripped material would be mainly limestone.

The remaining drill holes (2002-2 to 12) were positioned along the magnetite outcrop on the south side of the access road situated at the contact of the limestone and underlying volcanics. Hole #2002-2 ended at 30 feet still within mostly massive magnetite. The upper trench-drill access is mainly within limestone and an unknown thickness of skarn starting at 50ft. depth. Hole 2002-11 halfway up the eastern trench intersected a magnetite lens between 34' and 45'.

To better understand the Iron Ross magnetite deposit at least two 60 metre long diamond drill core holes are recommended near hole 2002-13 and 16. A core hole below 45 feet near hole 2002-1 may be advantageous to define the sub-surface extent of the magnetite outcrop zone as it dips to the north.



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#### PREVIOUS PERCUSSION DRILLING AUGUST-SEPTEMBER 2003

Further percussion drilling was completed in the Fall of 2003 mainly on the Iron Steve Zone and farther east for a total of 31 holes totalling 1,403 feet (427.64m) of drilling.

As the holes were being drilled the cuttings were logged by Hillsborough personnel on a visual basis and a representative sample was collected in plastic sample bags every 10 feet or less. These chip samples were each examined by J. T. Shearer, M.Sc., P.Geo. and a suite was assayed both multi-trace element and major elements as shown in Appendix III. The chip samples from the 2003 percussion drilling are presently stored at the Homegold Resources Office in Port Coquitlam.

Most of the holes were drilled in and around the Iron Steve Zone (Holes 2002-1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21, 24 and 25) as plotted on Longitudinal Sections 0+30 and 0+00, Figure 14 and 15.

The cross-sections suggest that the massive magnetite zones could dip relatively gently to the east. Much of the known magnetite zones are found between 1+40N to 1+00N, a distance of over 60 metres. The width of the various magnetite zones varies from 20m to 30m. The cross-sectional thickness ranges from about 6 to 10 metres with variable magnetite content. This gives a general resource potential of about 60,000 tonnes of unknown Fe grade. Similarly to the Iron Ross Zone, the Iron Steve Zone, Figure 14, Longitudinal Section 0+30 shows at least 2 main magnetite zones separated by garnet skarn and hosted within the limestone.

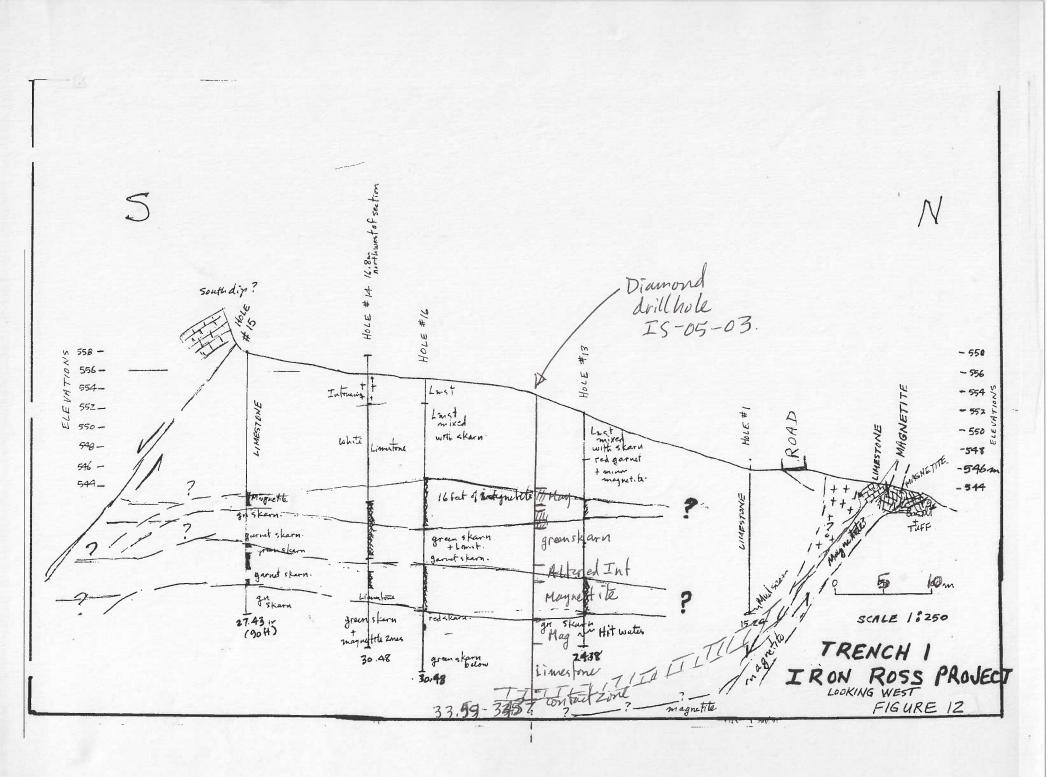
On the surface the Iron Steve Zone is mapped as several discontinuous pods of relatively pure massive magnetite separated by garnet-rich skarn. The ground magnetometer data suggests that the magnetite zones dip moderately shallowly to the east. The orientation of the magnetite zone should be further investigated by continued geological mapping.

The only holes west of the magnetite zones are Holes 2003-21, 16, 19 and 20. The main pods of massive magnetite should be further investigated by angle holes on sections 0+40N, 0+55N, 0+60N and 0+80N (perhaps 1+100N). The main access road is located conveniently to the west of these sections, 5 holes to be 15 to 20 metres in length each. Due to the skarn development at the bottom of holes 2003-25, 04, 05, 24, 10 and 15 might indicate a lower buried magnetite zone which is not seen in outcrop. A longer hole should test for this possibility with a length not less than 60 metres.

Additional percussion drill holes were drilled on the other known zones, Iron Herb I and Iron Herb II to the south east of the Iron Steve Zone. Drill Holes 03-22 and 23 were located north of Iron Steve Zone entirely within limestone intrusives.

Holes 03-23 and 29 were spotted near magnetometer line 32 (Iron Herb Zone). Magnetite was encountered in 03-28 from 2.44m – 3.05m and between 3.35m-4.27m. Hole 03-29 intersected magnetite between 0.91m-1.07m and again between 3.96m-4.27m within an extensive skarn zone. The holes appear to have been placed off the more intense part of the magnetometer anomaly.

Near the former producer, West Pit Holes 03-30 and 31 were drilled to investigate the magnetic anomaly and magnetite observed in road cuts. Holes 03-30 encountered an extensive skarn zone but little magnetite. Hole 03-31 intersected magnetite from 1.22m-3.35m with skarn below.



#### PREVIOUS SAMPLING in 1983 at IRON MIKE MAIN ZONE

The Main Pit area supplied most of the magnetite ore when the mine and mill were operating. The bulk of the magnetite ore that was amenable to open pit mining was removed during this operation. The 1983 survey by H. E. Neal & Associates Ltd. including chip sampling of the open pit (Atherton, 1983). All samples were sent to Lakefield Research Ltd., Lakefield Ontario. The sampling was done on vertical sections with the following results:

#### TABLE III

Sampling in 1983 at Iron Wike Main Zone (from Atherton, 1983)						
Section	Sample	*Interval Relative	Thickness in	Mag. Fe	Grade Sol	
	Number	Height In Metres	Metres	Satmagan%	Fe %	
2	1701	437.1-437.5	0.6	53.6	58.5	
East Wall	1702	437.5-438.3	0.8	15.8	17.3	
	1703	438.3-439.2	0.9	41.6	45.8	
	1704	439.2-441.1	1.9	16.3	26.5	
	1705	441.1-442.0	0.9	25.9	29.8	
3						
East Wall	1706	437.1-441.7	4.6	49.0	52.0	
4	1707	437.3-439.0	1.7	37.7	42.7	
East Wall	1708	444.6-447.5	2.9	55.6	58.7	
5	1709	437.0-439.0	2.0	48.6	53.5	
South Wall	1710	440.1-442.2	2.1	44.6	49.2	
6	1711	436.6-439.2	2.6	53.3	57.7	
South Wall	1712	439.2-441.8	2.6	57.2	60.0	
7	1713	437.7-440.2	2.5	53.4	57.3	
South Wall	1714	440.2-442.7	2.5	53.4	56.7	
8	1715	439.0-442.0	3.0	45.5	49.1	
South Wall	1716	442.0-445.0	3.0	48.4	52.7	
	1717	446.9-448.5	1.6	56.6	60.3	
9	1718	439.7-443.2	2.5	57.6	61.9	
South Wall	1719	443.2-446.8	3.6	31.2	36.4	
10	1720	437.1-441.1	4.0	39.9	43.3	
South Wall	1721	441.1-445.5	4.4	50.9	56.4	
12						
West Wall	1722	438.5-439.5	1.0	62.0	65.6	
13						
West wall	1723	438.5-440.8	2.3	34.9	38.1	
14	1724	437.9-439.9	2.0	45.1	49.1	
Caslasias A		a tha lasa Da <mark>as Dasta t</mark>				

#### Sampling in 1983 at Iron Mike Main Zone (from Atherton, 1983)

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West Wall1725439.9-441.92.053.2	56.1
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\*refers to elevation shown (Map #5 only, in Atherton, 1983).

Section	Sample Number	*Interval Relative Height In Metres	Thickness in Metres	Mag. Fe Satmagan%	Grade Sol Fe %
15	1726	438.6-440.6	2.0	45.2	49.5
West Wall 16	1727	440.6-442.9	2.3	59.3	62.5
West Wall 17	1728	439.2-442.8	3.6	53.8	57.4
West Wall 18	1729	438.8-441.9	2.1	50.0	53.1
West Wall	1730	439.2-441.5	2.3	51.9	55.6
19	1731	437.9-439.9	2.0	48.5	52.1
West Wall 20	1732	439.9-441.9	2.0	44.8	58.6
West Wall 21	1733	438.2-441.3	3.1	48.7	54.1
West Wall	1734	439.9-441.9	2.0	28.1	37.0

\*refers to elevation shown (Map #5 only, in Atherton, 1983).

The Sample Sections were located at 5m intervals. The geological description of each section is shown by Atherton, 1983 (on Sheet #6).

Sections were chip sampled at 10m intervals in the West Pit. The sections and sample locations are shown on Sheet #7 (in Atherton, 1983). The results are as follows:

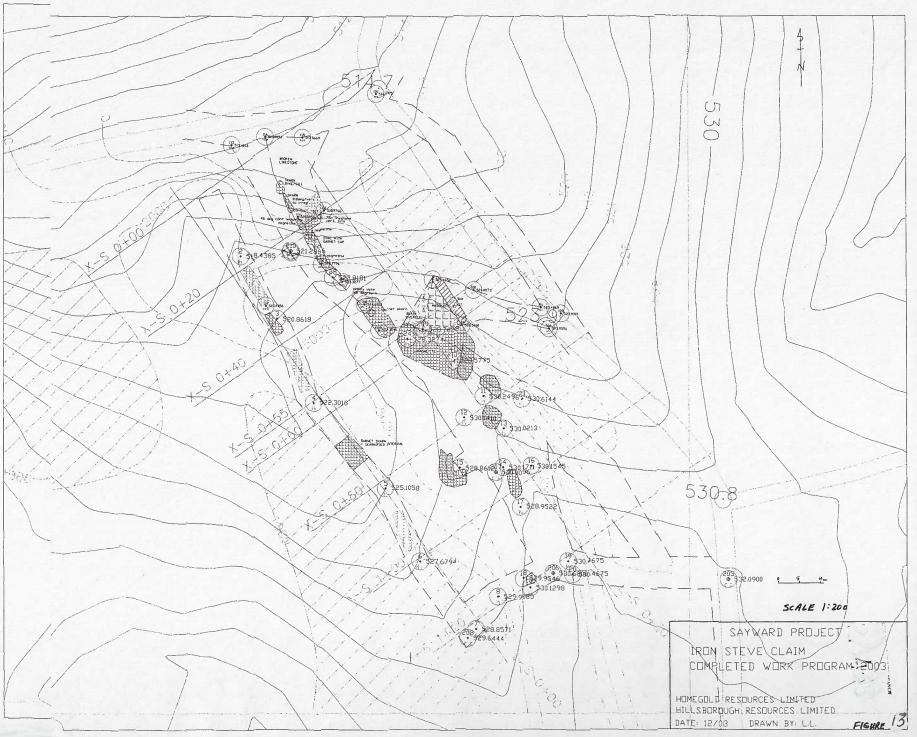
Section	Sample Number	*Interval Relative Height In Metres	Thickness in Metres	Mag. Fe Satmagan%	Grade Sol Fe %
22	1736	475.7-478.0	2.3	56.6	59.0
South Wall	1737	478.0-479.7	1.7	33.9	36.1
	1738	479.7-480.9	1.2	54.6	57.0
23	1739	474.7-475.8	1.1	43.5	46.7
South Wall	1740	475.8-479.9	1.6	21.1	23.7
	1741	477.4-479.8	2.4	51.4	54.5
24	1742	474.8-477.3	2.5	54.6	57.4
South Wall	1743	477.3-479.3	2.0	26.6	29.1
25	1744	475.4-477.4	2.0	21.4	23.9
South Wall	1745	477.4-479.4	2.0	37.3	39.3

26 South Wall	1746 1747	475.1-478.1 478.1-481.1	3.0 3.0	24.8 31.6	27.7 34.5
	1748	481.1-483.1	2.0	30.8	33.3
27	1749	476.4-478.9	2.5	31.5	33.4
South Wall	1750	478.9-481.4	2.5	47.5	50.2

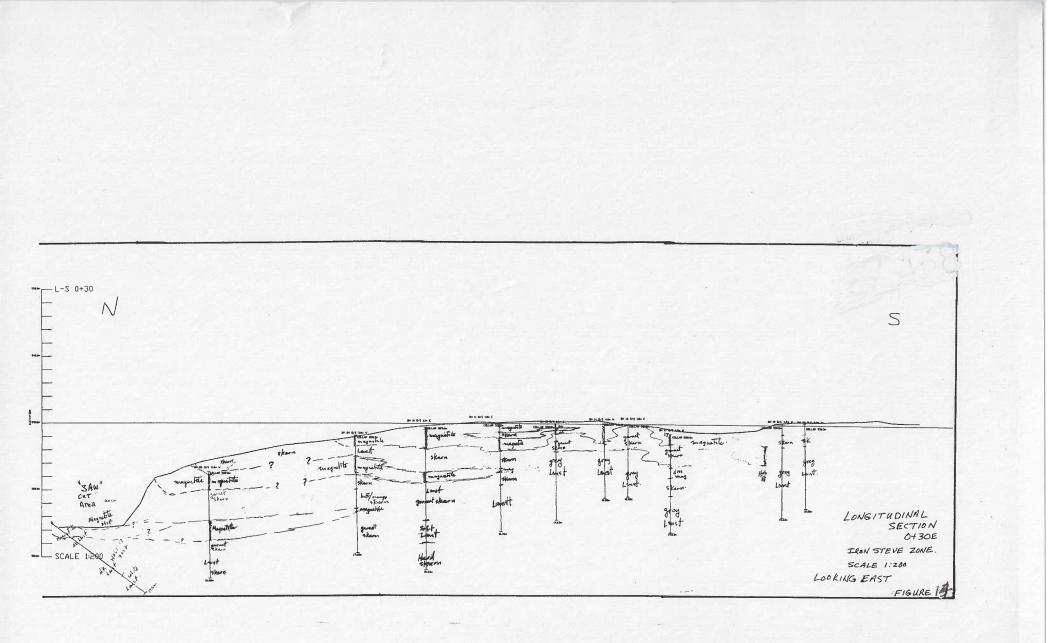
\*refers to elevation shown (Map #5 only, in Atherton, 1983).

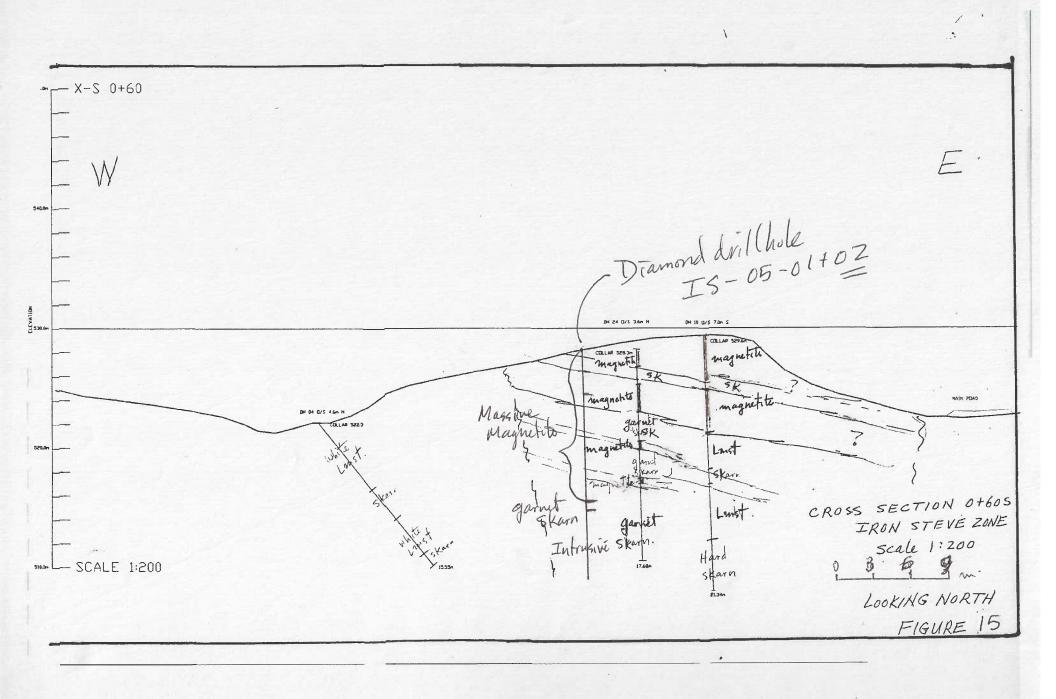
Section	Sample Number	*Interval Relative Height In Metres	Thickness in Metres	Mag. Fe Satmagan%	Grade Sol Fe %
28	1751	477.5-480.0	2.5	18.0	20.1
South Wall	1752	480.0-482.5	2.5	14.7	16.7
29	1753	478.2-480.5	2.3	20.5	22.5
West Wall	1754	480.5-482.5	2.0	33.3	35.4
30	1755	478.2-480.5	2.3	14.5	18.0
West Wall	1756	480.5-482.8	2.3	24.5	26.9

\*refers to elevation shown (Map #5 only, in Atherton, 1983.



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#### **GEOPHYSICS 1983 AIRBORNE and GROUND MAGNETOMETER 1983**

The purpose of the ground magnetic survey in 1983 was to follow up broad magnetic anomalies located by an airborne magnetic survey conducted during April 1983. Two grids, grid #1 and #3, were located along the axis of broad magnetic highs (Atherton, 1983).

The instrument used was a Scintrex MF-1 Fluxgate magnetometer, which has the following accuracy scale  $\pm$  .5% 100 to 10,000 gammas and  $\pm$  1% 100,000 gammas.

The method used for diurnal correction was a progressive adjustment for each survey loop and using a BL 7+00W on grid #1 and BL 3+00E on grid #3 as the base station. The time interval for base station checks was 1 to 2 hours.

The results are presented on map #8 with the unit measured in gammas. The contour interval is 1000 gammas, which is considered adequate for locating magnetite concentrations. The readings were measured at 25m intervals and less over anomalous areas.

The values represent vertical intensity and are relative only to the individual base stations for each grid. The primary base station for both grids was BL 2+00E on grid #3 and all values are relative to that station.

The survey outlined four areas of interest on the two grids. They are designated Iron Bethea (formerly Iron Mac), Iron Ross (formerly Iron Dick), Iron Herb I and Iron Herb II. They are shown on Figure #8, scale 1:5,000.

The Iron Bethea (formerly Iron Mac) anomaly is located between lines 7W and 8+25W south of the baseline on grid #1. Readings up to 15,550 gammas were obtained. The anomaly represents an area 60m by 40m. The shape of the anomaly indicates a shallow SW dip to the magnetite concentration. The anomaly is confirmed by the presence of magnetite occurrence between 7+50W and 7+25W along the logging trail.

The smaller magnetic loop located at line 7W 0+50 MS is likely an extension of the Iron Bethea (formerly Iron Mac) anomaly.

The Iron Ross (formerly the Iron Dick) anomaly is located between 10+75W and 11+50W on grid #1. The anomaly is 100m south of the baseline. Readings up to 11,000 gammas were obtained. The anomaly covers an area 120m by 60m as defined by the 5,000 gamma contour. Outcrop evidence confirms that this anomaly is caused by magnetite.

The Iron Herb I anomaly consists of two magnetic highs with readings up to 18,100 gammas. The magnetic highs are separated by a magnetic low. The south anomaly is from 1+75E to 2+00E on the baseline to 75m north on lines 2E and 2+50W. This anomaly represents an area 85m by 50m. The northern anomaly centred at 100N on line 2+50E and 0+75N on line 3E.

The anomaly covers an area 35m by 95m. No outcrop evidence was found to confirm this anomaly. The presence of large boulders located in the same area as the magnetic low dividing the two anomalies indicates magnetite is the source.

The Iron Herb II anomaly is located from 0+12.5W as the baseline to 0+50E as the baseline to 0+45N on line 0+50E. The anomaly covers an area 120m by 50m by the 5,000 gamma contour.

A smaller anomaly was located at 1+50N on line 3+00W. This was located over an area of slightly magnetic basalt.

#### **GROUND MAGNETOMETER JUNE 2003**

#### **SURVEY AREAS**

#### 1) Iron Steve Area, Lines 1-10

A close-spaced ground magnetometer survey was completed by Hillsborough personnel between June 4 and June 16 on lines cut by chainsaw using an Omni-Plus mobile total field magnetometer. (serial #418141). Diurnal magnetic field variation was corrected using an Omni-Plus stationary base station (serial #634358).

#### 1a) Recce Lines Around Iron Steve Area, Lines 71 & 72

The Iron Steve Area is covered by Lines 1, 2, 3, 3a, 4 and 5. The possible southerly extension of the Iron Steve Zone is partially covered by Line 3A and 71.

Lines to the east are lines 6, 7, 8, 9, 10, 11 and 72.

The deposit is exposed on Line 3 and 3a by natural outcrops and old trenches. An irregular siliceous magnetite lens is exposed near the side of the road and was sampled in previous years (1997?) with a channel cut with a diamond saw. Two old packsack holes have been observed.

As shown on map 2, the 5000 gamma and 10,000 gamma contour starts about 42m south on Line 3 and Line 3a at 50m south. Values in the 20,000 gamma range continue south on line 3a from 80m to at least 115m south. High values continue on Line 3a south of Line 71 to 190m south. The total field measurements by the Omni-Plus are limited in absolute accuracy when in areas of very steep magnetic gradient.

The strongly negative readings on Line 4 and 72 suggest that the Iron Steve deposit dips relatively moderately shallowly to the east. Perhaps the deposit has a steeper dip in the southern portion (but the data coverage to the south is not adequate to determine).

#### **Drillhole Recommendation:**

A program of 20 drillholes was submitted in a Notice of Work at 15m spacing by S. Gardner, P.Geo. I concur with these 20 holes but would also strongly recommend several more holes be spotted at the intersection of Line 3a and Line 71 and south along Line 3a (a total of at least 5 holes at 15m spacing).

The Iron Steve deposit occupies a small low ridge from about 536m elevation to 516m elevation. A general magnitude of possible resource available to an open cut might be on the order of 20m wide x 10m deep x 60m long x 4.5 SG = 54,000 tonnes. Of course, drilling is required to confirm any possible tonnage and the deposit is expected to be irregular in detail. A larger volume of magnetite material may be too deep for open cut extraction.

#### 1a) Recce Lines

Lines 6 through 10, located to the immediate east of the Iron Steve deposit do not appear to indicate any anomalous magnetic values. Line 71 indicates highly anomalous values near its intersection with Line 3a up to 8,170y with a higher value width of about 30m. Readings on Line 72 starting near the base station location and going around the Iron Steve Zone shows negative values to the northwest of the Iron Steve Zone (similar to Line 4) with relatively stable background values to the south of the deposit.

#### 2) Iron Mike Mine and West Pit Area, Lines 12-17

The Iron Mike Mine produced 168,735 tonnes averaging about 45% Fe to make 112,799 tonnes of concentrate averaging 62.26% Fe.

The magnetometer survey shows a northwest-southeast magnetic anomaly on Lines 13, 14, 15 and 15 (maximum reading of 13,781gammas) which is just upslope from the southwest corner of the Pit where a decline was collared to follow a large lens of magnetite visible in the pit wall. The present survey confirms that this magnetite lens dips to the south-southwest at a moderate angle. On a cursory examination, it appears that steepness of the slope precludes any large amount of magnetite being available for open cut extraction. The plan in the 1960s was to mine this magnetite by underground methods. A considerable tonnage of magnetite was outlined by diamond drilling in support of the proposed underground operation. This underground operation apparently was not financially viable.

#### 4) West Pit Area, Lines 18-25

A small magnetic anomaly is present on Line 18; the 1,000 gamma contour shows an anomaly 30mx50m. Old records suggest that diamond drilling in the 1960s intersected magnetite in this area. Three drillholes are recommended.

The West Pit produced magnetite ore in the 1960s. A weak magnetic anomaly is present on Line 21 to the west of West Pit, having a maximum value of 3,452 gammas. This anomaly is relatively weak suggesting a low grade magnetite zone or a more deeply buried magnetite zone. Two to four holes are warranted.

#### 3) Area Between Iron Mike & Iron Bethea, Lines 11 & 12

Line 12 starts southeast of the Iron Mike Pit about 160m. All values on Line 12 are in the background range. Line 11 starts near the start of Line 12 and doglegs about 100m southeast of Line 12. There is a low order anomaly on the south end of the middle hill. The 2,000 gamma contour is 60m in length with the highest reading 4,083 gammas (elevation 510m). Another low order anomaly 50m southwest of the previous anomaly is about 45m long on the 2,000 gamma contour at elevation 498m. Both of these low order anomalies should be checked with prospecting and follow-up magnetic survey lines.

#### 5) & 6) Iron Herb I & II, Lines 27-37 and Lines 38-39, 61-65

The Iron Herb I and II areas were covered in the 1983 fluxgate vertical field survey (Alterton, 1983). The Iron Herb I area in the 1983 survey was described as two magnetic anomalies separated by a central low. Values were up to 18,100 gammas (vertical field). The two anomalies were approximately 85m x 50m and 95m x 35m in extent.

In the 2003 survey the Iron Herb I area extends in an arcuate fashion from beyond Line 37 on the west to beyond Line 27 a distance of at least 290 metres. The central core of the Iron Herb anomaly are mainly well above 10,000 gammas up to 25,034 gammas. The zone appears to dip toward the south.

Drillholes can be positioned relatively easily along the north road beginning from the main road at Line 34 at about 40m to 50m along the branch road. Several holes could be positioned from this locality to test the thickness of the magnetite zone. Excavator trenching is also recommended up the small knoll to the east where a clearing-swamp is shown on the map.

The Iron Herb II anomaly is described from the 1983 survey as a magnetic high 120m x 50m in extent. In the present (2003) survey the Iron Herb II anomaly is about 120m long between Lines 38, 39, 61 and 62 but is somewhat irregular and variable in station values. The highest value is 11,236 gammas. The zone appears to dip to the south-southwest. At least 4 drillholes should be positioned along the main road and north branch to test the subsurface of the zone near Lines 39 and 61.

There is a 75m gap between Line 37 and Line 38. The trend of the Iron Herb I and Iron Herb II anomalies suggest a possible 60 metre right lateral offset between the anomalies due to a possible northwest-southeast fault or that perhaps the zones are separate lenses.

Lines 63, 64 and 65 suggest that the Iron Herb II anomaly does <u>not</u> extend to the southwest.

#### 7) & 8) South of Iron Ross, Lines 41-48 and Iron Bethea, Liens 49-57

#### 7) Iron Ross

Line 41 is situated on the trench and drill fence on the south side of the Iron Ross deposit. From percussion drill data, it is known that the Iron Ross magnetite deposit is covered by about 10 to 15 metres of limestone in the vicinity of the 4,000 to 7,000 gamma response. The two stations on Line 42 of 3595 suggest that there may be some extension of the deposit to the south extending from the central cross trench, a distance of about 30 metres. A couple more percussion holes are recommend in this area, likewise 20m west of the start of Line 42 (4,197 gammas).

An area of 4,000 gamma plus readings is present on the west side of Lines 45 and 46 about 120-160m south of the Iron Ross in somewhat steeper terrain. Some detail prospecting is in order to check for magnetite outcrops or float. The steepness of the slope may preclude open cut reserves being present.

Line 48 is entirely background values.

#### 8) Iron Bethea

The "dot" for Iron Bethea appears to be misplotted. The higher magnetic values on Line 11 (6,685 gammas), Line 53 (up to 12,819 gammas) and Line 52 (4,855 gammas) appear to partially reflect the position of the Iron Bethea zone. In the 1983 survey, the Iron Bethea magnetic anomaly (formerly the Iron Mac) was within Lines 7W to 8+25W (old grid) covering an area 60m x 40m with readings up to 15,550 gammas over vertical field. The magnetic pattern suggested a shallow southwest dip.

The 2003 survey only partially covered the area of interest but might range from 60m to 90m long by 20m to 40m wide. Two additional lines parallel to the southeast of Line 49 would give sufficient coverage. The old road past the Iron Ross deposit would need to be extended about 190m along the old (1950s) logging road, which can be traced to the new logging road corner near the middle of Line 57. Further prospecting and eventually drilling are recommended on the Iron Bethea as access is improved.

Some unknown tonnage, by way of open cut, is potentially available subject to favourable results of future work.

The lines southeast of Iron Bethea (Lines 55, 56, 57 and 58) all exhibit low background values suggesting low magnetic potential.

#### 2010 RE-LOGGING of PREVIOUS DIAMOND DRILL CORE (from June 2005 core)

The core from the diamond drill program conducted with a Boyles 37 Unitized drill rig producing NQ core in June 24, 2005 was re-logged between June 1, 2010 and November 15, 2010.

The drill core was originally stored in Sayward and then subsequently moved to the Fish Hatchery facility near Adephi Creek. The core is presently stored behind the main shop under a tarp.

		Drill Hole L	Data (re-	logged	in 2010)	
Hole #	UTM	Length (m)	Dip	Az	Elev. (m)	Remarks
IS-05-01	50°18′32.43″N	26.82 (88 ft.)	-90°	N/A	527m	Just north of bulk sample
	125°59'10.95"W					area, Iron Steve Zone
IS-05-02	50°18′32.43″N	54.56 (179 ft.)	55°	065	527m	Bulk Sample Area Iron Steve
	125°59'10.95"W					Zone
IS-05-03	50°18'22.88"N	63.70 (208 ft.)	75°	058	540m	Middle of 2002 Trench Iron
	125°58'58.62"W					Ross Zone

TABLE IV Drill Hole Data (re-logged in 2010)

The logs for diamond drill hole IS-05-01 to 03 are contained in Appendix III. This diamond drilling was not submitted for assessment credit. This current report documents a re-logging of holes IS-05-01 to IS-05-03. The locations of the diamond drill holes are shown on Figure 7.

Hole IS-05-01 – The Magnetite zone is well exposed on surface. The upper Magnetite zone was intersected from surface down to 1.90m where a very fine grained green igneous sill was encountered from 1.90m to 2.48m. Only a narrow skarn interval was encountered before more green altered intrusive to the end of the hole at 26.82m (88 ft.).

Hole IS-05-02 – Hole IS-05-02 was drilled to investigate whether the altered intrusive encountered in hole IS-05-01 was contained in a vertical structure. Massive magnetite was intersected in hole IS-05-02 from surface to 12.22m which is underlain by orange-brown garnetite. Less altered chloritized intrusive starts at 20.89m.

Hole IS-05-03 was spotted in Trench 1 above the Iron Ross Zone. Fine grained limestone was encountered from 2.44m to 10.36m above a magnetite-skarn zone from 10.36m-24.75m. Massive pure magnetite was intersected between 11.84 to 14.56m (2.72m) and 20.96m to 24.75m (3.97m). This is the "Upper Zone". The contact zone exposed east of the access road was intersected between 33.59m and 34.37m.

#### **CONCLUSIONS and RECOMMENDATIONS**

The known massive magnetite zones covered by the Ross Mineral Claim have been explored intermittently for some time since discovery in the late 1950's. Assays by previous workers indicate over 62% Fe<sub>2</sub>O<sub>3</sub> as relatively coarse crystalline magnetite.

A program of trenching and bulk sampling was completed in early 2002, followed by percussion drilling in later 2002, a ground magnetometer survey in June 2003 and further percussion drilling in September 2003. This report documents the results of a diamond drill program in 2005 with a re-logging of the core. This work was not previously submitted for assessment credit.

Extensive airborne and ground magnetometer surveys were completed in 1983 by Dickenson Mines Limited, which outline 4 additional large massive to skarn and magnetite zones to the west of the Iron Mike main pit.

Hillsborough was successful in producing a high grade bulk sample from the Iron Steve Zone in 2003 which was used in super-heavy concrete applications.

Much of the magnetite produced in British Columbia at the present time is from a sophisticated reprocessing of tailings (Craigmont) or hit and miss reprocessing coarse waste dumps (Texada Island). Possible markets for magnetite are: heavy aggregate for high-density concrete, heavy media for coal washing, sandblasting abrasives, high-density filter media and radiation shielding aggregates. Two major construction projects under consideration are the expansion of the sub-atomic research TRIUMF facility at the University of British Columbia and the Sumas-Duncan Natural Gas Pipeline (for pipe anchors) by BC Hydro and Williams Pipeline Company. There may also be increasing application to special designed heavy concrete foundations in areas of high hydrostatic ground pressure in areas like Richmond, B.C.

An alternative market may be as a raw material for cement plant use. The current supply from Anyox slag assays 36.4% SiO<sub>2</sub>, 5.1% Al<sub>2</sub>O<sub>3</sub> but only 45% Fe<sub>2</sub>O<sub>3</sub>. Anyox slag also assays typically about 3% SO<sub>3</sub> and has a relatively high Bond work index of >23. Bond work index of 10.7 and 15.0 have been obtained for magnetite from other properties on Vancouver Island.

A diamond drill program is recommended for 2004 consisting of a series of short angle holes along the limestone contact at the Iron Steve Zone, two short vertical holes at the Iron Ross Zone to investigate both the limestone hosted magnetite and limestone-basalt contact magnetite. If the logging access roads open up the Iron Bethea area then two angle holes would be warranted at Iron Bethea Zone.

Respectfully submitted,

J. T. Shearer, M.Sc., P.Geo. Consulting Geologist February 1, 2011

## ESTIMATE of COSTS for FUTURE WORK

Program 2004: Follow-up Geological Mapping and Select Diamond Drilling

(A)	Project Supervision: J. T. Shearer, M.Sc., P.Geo.		
	Room, Board and Transportation and H	elper	\$ 10,000.00
	Contact Diamond Drilling (1,500 ft. @ \$19/f	t.) 28,500.00	
	Excavator/Bulldozer to move drill		5,000.00
	Consumables @ \$5/ft.		7,500.00
	Mob & Demob of Dill & Bulldozer		2,000.00
	Analytical		4,000.00
	Report Preparation, Drafting & Reproduction	on <u>3,000.00</u>	
		Subtotal	\$ 60,000.00
(B)	Additional Bulk Samples, 5,000 tonnes		
	Load & Haul to Crusher & Load Trucks with	Excavator @ \$2.50/tonne	12,500.00
	Drill/Blast Tank Drill \$160/hr.		8,000.00
	Truck to Sayward 30 tonne Trucks, 250 load	ls, 15 days, \$5/tonne approx.	25,000.00
	Barge from Sayward to Mitchell Island, \$5/t	conne	30,000.00
	Load & Unload, Approx		4,500.00
	Crush at Site, Approx. \$5/tonne x 5,000 ton	nes to specification	20,000.00
	Mob of Crusher and Tank Drill		5,000.00
	Road Use		5,000.00
	Supervision		5,000.00
		Subtotal	\$ 115,000.00
		TOTAL	\$175,500.00
(C)	Program 2005: Mine Permit work, applica permit.	ation for 100,000 tonne per year p	production
	Geological Mapping, Drill Supervision:		
	J. T. Shearer, M.Sc., P.Geo. & Assistant		\$ 10,000.00
	Mapping, Survey Control, Lease Survey		9,000.00
	Definition Drilling, 1,000 ft @ \$16/foot aver	age,	
	percussion and diamond drilling		16,000.00
	Mob & Demob and Supplies		4,000.00
	Assay – Analytical		3,500.00
	Mine Planning & Product Design		16,000.00
	Forestry Cutting Plan		3,000.00
	Environmental Survey		5,500.00
	Acid Rock Drainage Sampling and Report		2,000.00
	Permit Application and Reporting		2,000.00
	Report Preparation, Word Processing & Rep	production	3,000.00
	First Nations Liaison		4,000.00
	Public Meetings & Advertising		2,000.00
		Total	\$ 80,000.00
Progr	ram 2004 & 2005 GRAND TOTAL		\$246,000.00

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**APPENDIX I** 

# STATEMENT OF QUALIFICATIONS

**FEBRUARY 1, 2011** 

#### Appendix I

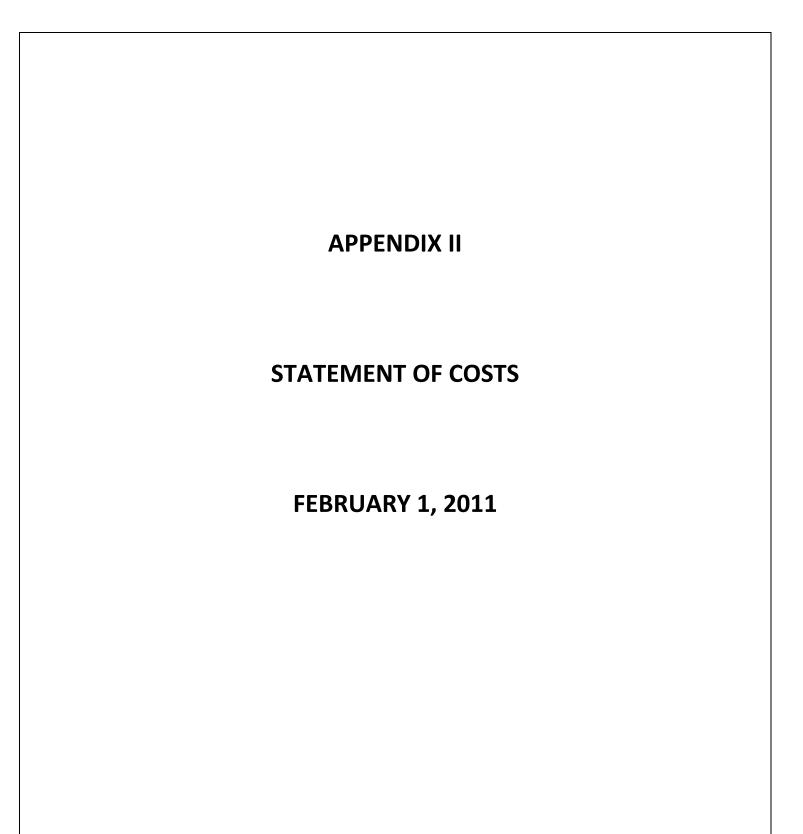
#### STATEMENT of QUALIFICATIONS

I, JOHAN T. SHEARER, of 3572 Hamilton Street, in the City of Port Coquitlam, in the Province of British Columbia, do hereby certify:

- 1. I am a graduate of the University of British Columbia (B.Sc., 1973) in Honours Geology, and the University of London, Imperial College (M.Sc., 1977).
- 2. I have over 30 years experience in exploration for base and precious metals and industrial mineral commodities in the Cordillera of Western North America with such companies as McIntyre Mines Ltd., J. C. Stephen Explorations Ltd., Carolin Mines Ltd. and TRM Engineering Ltd.
- 3. I am a fellow in good standing of the Geological Association of Canada (Fellow No. F439) and I am a member in good standing with the Association of Professional Engineers and Geoscientists of British Columbia (Member No. 19,279) and a member of the CIMM and a fellow of the Society of Economic Geologists (SEG), Fellow #723766.
- 4. I am an independent consulting geologist employed since December 1986 by Homegold Resources Ltd. at #5-2330 Tyner St., Port Coquitlam, B.C.
- 5. I am the author of the present report entitled "Geological Assessment Report on the Iron Ross Project, Nanaimo Mining Division: dated February 1, 2011.
- 6. I have visited the property on Nov. 29 & 30, 2001, Feb. 6-12, 2002, March 14-17, 2002, October 20-October 29, 2002 and June 2003 and October 2003. I re-logged the diamond drill core between June 1, 2010 and November 15, 2010 I have carried out mapping, percussion drilling and sample collection and am familiar with the regional geology and geology of nearby properties. I have become familiar with the previous work conducted on the Iron Ross Project by examining in detail the available reports and maps and have discussed previous work with persons knowledgeable of the area.
- 7. I own an interest in the Ross, Iron Ross and Iron Bethea Claims and own Homegold Resources Ltd.

Dated at Port Coquitlam, British Columbia, this 1<sup>st</sup> day of February, 2011.

J. T. Shearer, M.Sc., F.G.A.C., P.Geo. Quarry Supervisor #98-3550 February 1, 2011



### Appendix II

## Statement of Costs Iron Ross Project

Geological J.T. Shearer, M.Sc., P.Geo.,		without HST
4 days @ \$700/day, Re-logging, June 6+7, Aug. 4, Sept. 15+16, Oct. 18, 2010		\$ 2,800.00
2 days @ \$700/day, Geological		1,400.00
	Sub-total on Wages	\$ 3,800.00
Expenses		
Truck Rental, 6 days @ \$98.50/day,		591.00
Hotel in Campbell River – 2 men, \$120 x 6		720.00
Meals & Supplies		650.00
S. L. Shearer, Core Catcher, 6 days @ \$300/day		1,800.00
June 6+7, Aug. 4, Sept. 15+16, Oct. 18, 2010		
Report Preparation		2,100.00
Drafting		800.00
Word Processing and Reproduction		350.00
	Sub-total	\$ 7,011.00
	Grand Total	\$ 10,811.00

Event # 4810798 Total value of work \$10,500 Total applied \$13,870.85 PAC (3,370.85) Applied November 18, 2010

# **APPENDIX III**

# DRILL LOGS, 2010 RE-LOGGING

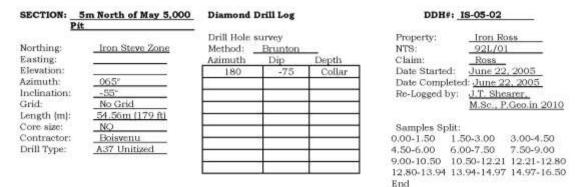
**FEBRUARY 1, 2011** 

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SECTION:	5m North of May Pit	Diamond Drill Log	DDH#: 18-05-01
Northing: Easting: Elevation:	Iron Steve Zone	Drill Hole survey Method: <u>Brunton</u> Azimuth Dip Depth	Property:         Iron Ross           NTS:         921/01           Claim:         Ross
Azimuth: Inclination: Grid: Length (m):	No Grid	180 -75 Collar -75 down	Date Started: June 21, 2005 Date Completed: June 22, 2005 Re-Logged by: J.T. Shearer, M.Sc., P.Geo.in 2010
Core size: Contractor: Drill Type:	_NO _Boisvenu 		Samples Split: 0-1.90 magnetite 1.90-3.50 3.50-5.00 5.00-6.50 (end]

from (m)	to (m)	Description	from/to	width (m)	MgO %
0.00	1.90	MAGNETITE: massive, black, minor disseminated whitish garnet distributed in rough bands – layers – approximately about 10% to 15% garnet anhedral crystals, highly fractured, fractures mainly sub-parallel to core axis.			
		Lower contact broken appears to be along low angle fractures			-
1.90	2.48	GREEN ALTERED INTRUSIVE: fine grained, felted medium green colour, very abundant chlorite and actinolite, fine grained throughout			
2.48	5.51	BROWN GARNET SKARN: massive, brown overall, some lesser felted green, skarnified intrusive Epidote rich zone at 2.85m-3.05m			
5.51	26.82 E.O.H.	GREEN ALTERED INTRUSIVE: minor variation from very dark green to lighter medium green, the darker green sections appear less altered and have indistinct sparse phenocrysts			
		Minor brownish interval – garnetiferous section from 11.09m- 11.48, calcareous shear zone 14.94m-15.80m, shearing is almost sub-parallel to core axis to 15° to core axis. Broken rubbly fractured core 18.20m-20.90m some gouge on fractures, most fractures are parallel to core axis.			
		Core relatively massive and less fractured from 20.90m down to 26.82m (E.O.H.) A few smaller fractures at 10°-15° to core axis more chlorite along and coating high angle fractures			0
		End of Hole 26.82m [88 feet]			-

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from (m)	to (m)	Description	from/to	width (m)	MgC %
0.00 1	12.22	MASSIVE MAGNETITE: black, relatively fine grained with coarser sections, magnetite associated with variable minor amounts of disseminated brownish to light grey garnet.			
		Irregular veinlets and lenses of white calcite Some of the garnet disseminated crystals are up to 4mm across but most are 1mm or less and arranged commonly in rough bands.			
		Slighly more garnet interval 4.84m-5.04m crudely aligned at about 50° to core axis.			
		Core recovery: 0-12' = 8' = 66% 12'-19' = 7' = 100% 19'-29' = 10'1' 29'-39' = 10'2'			
		Green chlorite film on fracture, sub-parallel to core axis at 8.52m- 8.73m, white sparry calcite layer - band - 6.51m-6.59m.			
		Banded at 10.10m is at 32° to core axis. At 9.00m finer magnetite with garnet layer contact with coarser magnetite			
		Much coarser crystalline 10.58m-10.73m, with breccia zone having chlorite matrix, breccia "view" is at 10° to core axis, angular magnetite fragments 11.09m-11.31m garnet rich "layer" Lower contact sharp at 38° to core axis.			
12.21	12.80	MASSIVE GARNET: orangish-brown, very fine grained contacts and layer continue to be 38° to core axis Contact somewhat gradational over about 5cm and tends to be higher angle – indistinct at about 45°-50° to core axis.			
12.80	13.94	DARK GREEN ALTERED INTRUSIVE (Skarnified): mottled appearance		8	

Page 2 of 2

<ul> <li>.97 GARNET and CALCITE SKARN: reddish brown garnet mixed v and alternating with patch white calcite, minor green actinolite and other calc-silicates</li> <li>.89 GREEN SKARN (Skarnified) INTRUSIVE: medium green, fine grained overall, pronounced brecciated texture in upper part.</li> </ul>			
			-
			-0
Abundant accessory brown garnet down to 20,60m, then a gradational chante to less obviously skarnified dark green intrusive over about 1 metre. Absence of dark green at 20,89m.			
32 LESS ALTERED CHLORITIZED INTRUSIVE: lighter green cold generally, some minor darker green intervals Abundant medium green chlorite lenses and pellet shaped structures 25.46m-26.38m (green skarn), (amygdaloidal appearance), uniform medium green altered intrusive,	our		
.56 "AMYGDALOIDAL" ALTERED INTRUSIVE: characterized by chloritic and calcite filled "amygule"-like structures, highly fractured with low angle (<10" to core axis) fractures			
This texture could also be altered crystals which have been alte to resemble amygules, minor pyrite films along high angle fractures, very chloritic on fracture surfaces	ered		
	to		
	<ul> <li>Skarnification pronounced throughout interval down to massive red garnet zone 18.92m-19.07m at 56° to core axis. Immediate below the garnet zone is a short interval of MAGNETITE from 19.23m-19.34m at 10° to core axis, very chloritic</li> <li>Abundant accessory brown garnet down to 20.60m, then a gradational chante to less obviously skarnified dark green intrusive over about 1 metre.</li> <li>Absence of dark green at 20.89m.</li> <li>LESS ALTERED CHLORITIZED INTRUSIVE: lighter green colligenerally, some minor darker green intervals</li> <li>Abundant medium green chlorite lenses and pellet shaped structures 25.46m-26.38m (green skarn), (amygdaloidal appearance), uniform medium green altered intrusive.</li> <li>"AMYGDALOIDAL" ALTERED INTRUSIVE: characterized by chloritic and calcite filled "amygule"-like structures. highly fractured with low angle (&lt;10° to core axis) fractures</li> <li>This texture could also be altered crystals which have been altered resemble amygules, minor pyrite films along high angle fractures, very chloritic on fracture surfaces</li> <li>Highly fractured between 42.90m-44.95m mainly sub-parallel core axis, somewhat convoluted, brownish fracture coating 45.31m-48.00m of mainly 10°-20° fractures from 52.80m - might</li> </ul>	Skarnification pronounced throughout interval down to massive red garnet zone 18.92m-19.07m at 56° to core axis. Immediately below the garnet zone is a short interval of MAGNETITE from 19.23m-19.34m at 10° to core axis, very chloritic         Abundant accessory brown garnet down to 20.60m, then a gradational chante to less obviously skarnified dark green intrusive over about 1 metre. Absence of dark green at 20.89m.         32       LESS ALTERED CHLORITIZED INTRUSIVE: lighter green colour generally, some minor darker green intervals Abundant medium green chlorite lenses and pellet shaped structures 25.46m-26.38m (green skarn), (amygdaloidal appearance), uniform medium green altered intrusive.         56       "AMYGDALOIDAL" ALTERED INTRUSIVE: characterized by chloritic and calcite filled "amygule"-like structures, highly fractured with low angle (<10° to core axis) fractures	Skarnification pronounced throughout interval down to massive red garnet zone 18.92m-19.07m at 56" to core axis. Immediately below the garnet zone is a short interval of MAGNETITE from 19.23m-19.34m at 10" to core axis, very chloritic         Abundant accessory brown garnet down to 20.60m, then a gradational chante to less obviously skarnified dark green intrusive over about 1 metre. Absence of dark green at 20.89m.         32       LESS ALTERED CHLORITIZED INTRUSIVE: lighter green colour generally, some minor darker green intervals Abundant medium green chlorite lenses and pellet shaped structures 25.46m-26.38m (green skarn), (amygdaloidal appearance), uniform medium green altered intrusive.         56       "AMYGDALOIDAL" ALTERED INTRUSIVE: characterized by chloritic and calcite filled "amygule"-like structures, highly fractured with low angle (<10" to core axis) fractures

#### Page: \_\_\_\_\_2 of \_2\_\_\_\_

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SECTION:	Trench #1	Diamond I	Orill Log		DDH	18-05
Northing: Easting: Elevation:	Iron Ross Zone	Drill Hole s Method: Azimuth	arvey Brunton Dip	Depth	Property: NTS: Claim:	  R
Azimuth: Inclination: Grid: Length (m): Core size:	058° -75° <u>No Grid</u> 63.70m (208 ft) NO	058	-75	Collar	Date Starte Date Compl Re-Logged b	d: <u>Jur</u> eted: <u>Ju</u>
Contractor: Drill Type:	Boisvenu A37 Unitized				Samples Sp 7.50-9.00 10.79-11.84 14.56-16.00 19.00-20.00	9.00-1 11.84- 16.00-

5-03

Property:	Iron Ross	
NTS:	92L/01	
Claim:	Ross	
Date Started	June 23, 2005	
Date Comple	ted: June 24, 2005	
Re-Logged by	<ul> <li><u>J.T. Shearer.</u></li> <li><u>M.Sc., P.Geo.in 201</u></li> </ul>	0
Samples Spli	ta:	
7.50-9.00	9.00-10.36 10.36-10	79

1-13.00 13.00-14.56 0-17.50 17.50-19.00 0-20.96 20.96-22.00 22.00-23.00 23.00-24.00 24.00-24.75 End

from (m)	to (m)	Description	from/to	width (m)	MgO %
0.00	2.44	CASING TO 8' (2.44M): No core recovery			
2.44	10.36	LIMESTONE: dark grey to black, fine grained numerous chert nodules, well laminated to banded		91 27	2
		Core recovery: 8'-19' = 8' 19'-29' = 9'10" 29'-39' = 9'11" 39'-49' = 10' 49'-59' = 10' 59'-69' = 9'10" 69'-79' = 9'10" 79'-89' =			
10.36	10.79	MAGNETITE and GARNET: black fine grained magnetite intercalated and interbanded with light brown garnet, banding at 70° to core axis.			
10.79	11.84	GARNET-ACTINOLITE SKARN: light green in upper part – actinolite-chlorite cominant from 11.52m-11.84m massive reddish brown garnet with thin discontinuous bands of chlorite-cale- silicates, Garnet breccia with magnetite matrix at lower contact.			
11.84	14.56	MASSIVE MAGNETITE: black, fine grained intercalated/banded with variable amounts of brownish garnet and light green chlorite Some irregular feather chlorite, convoluted magnetite-swirl texture with lighter grey calc-silicates, reddish garnet at 12.20m			
		Loôlingite at 13.74m filling and coating 10" to core axis fracture, white films on some fracture surfaces, sharp increase in white silver metallic mineral (probably loôlingite) from 13.84m-14.05m Slight increase in amount of chlorite and garnet toward lower contact. Contact broken but appears to be about 70°			

Page 2 of 2

from (m)	to (m)	Description	from/to	width (m)	MgO %
14.56	20.96	GREEN SKARN-ALTERED INTRUSIVE: very fine grained, some vague indistinct brecciation texture, general bleaching, minor irregular lenses of epidote.			
		Contact at about 75° to core axis, Lower contact from 20.90m contains "breccia" fragments of magnetite and sparry white calcite epidote and garnet			à
20.95	24.75	MASSIVE MAGNEITE: black, mainly fine grained, occasional irregular small bleb of white sparry calcite, one larger calcite lense at 21.88m is 2 cm wide, minor bands of brownish garnet at 21.44m, about 5mm wide (convoluted). Medium green chlorite at 24.12m			
24.75	31.95	ALTERED (Skarnified) INTRUSIVE: dark to medium green, well fractured, 10° to core axis fracture zone, core quite shattered throughout, gouge and rubbly core 29.40m-29.85m			
		Lower contact altered and sheared at 42° to core axis, clots of brown garnet and band of dark green chlorite. Contact relatively sharp			
31.95	33.59	<b>MEDIUM GREY LIMESTONE:</b> fine crystalline, highly fractured, most fractures are at low angles to core axis or sub-parallel to core axis, some of the 60° fractures are bleached for about 10mm on each side which give the appearance of banding in the limestone		-	
		Near lower contact - fractures at 5° to core axis are filled with 1mm thick hematite, minor pyrite along fractures, generally the limestone has a slight brownish colour Fractures at the contact are coated with chlorite, contact brecciated.			
33.59	34.37	CONTACT ZONE with MAGNETITE: highly brecciated and		-	-
		sheared, yellow-brown fault gouge on 35° to core axis fractures, magnetic fragments from 33.59m-33.64m, associated garnet contains local abundant chalcopyrite, abundant brown garnet and calcite matrix, breccia zone sub-parallel to core axis. Rubbly core at end of interval, sheared at about 42° to core axis.		ā.	0
34.37	36.00	SHEARED ALTERED INTRUSIVE: medium green, fine grained, cut by network of white sub-parallel to core axis calcite veinlets Gradational lower contact			
36.00	63.70	ALTERED (Chloritic) INTRUSIVE: medium to dark gree, fine			-
	E.O.H.	grained, chlorite banding 38.78m at 75" to coare axis also principle fracture orientation roughly 15" to core axis		25	-
		Skarnified intervals – layering close to 85° to core axis from 46.20m-48.46m, shear zone 50.08 at 35° to core axis, relatively uniform from 53.00m to E.O.H., Porphyritic from 62.80m-63.70m			