

**GEOLOGICAL, DRILLING and
MAGNETOMETER ASSESSMENT REPORT
on the
IRON ROSS PROJECT**

(TENURE #389167, 389168, 389169)

MX-8-216

SAYWARD AREA, ELK CREEK

NANAIMO MINING DIVISION

N.T.S. 92K/05W (92K.031)

LONGITUDE 125°58'20"/ LATITUDE 50°18'42"N

For

Hillsborough Resources Limited

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GEOLOGICAL SURVEY BRANCH
VANCOUVER, B.C.

January 31, 2004

**Fieldwork between October 20, 2002 and December 15, 2002 and
May 15, 2003 and September 30, 2003**

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SUMMARY

- 1) The Ross, Iron Ross and Iron Bethea Claims (totalling 22 units) cover 4 main magnetite showings. The Iron Mike and Iron Joe (2 units) cover past producer Iron Mike.
- 2) The area is 6 km from tidewater on Kelsey Bay at the town of Sayward and about 52 km north of Menzies Bay.
- 3) The Iron Ross and Iron Bethea magnetite showings are a short distance (400m) west of the Iron Mike past producer.
- 4) 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.
- 5) 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.
- 6) 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.
- 7) 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).
- 8) 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.
- 9) Specific Gravity measurements average 5.1 with the following assay results

Al ₂ O ₃	CaO	Fe ₂ O ₃	K ₂ O	MgO	MnO	Na ₂ O	P ₂ O ₅	SiO ₂	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

- 10) 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.
- 11) 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.

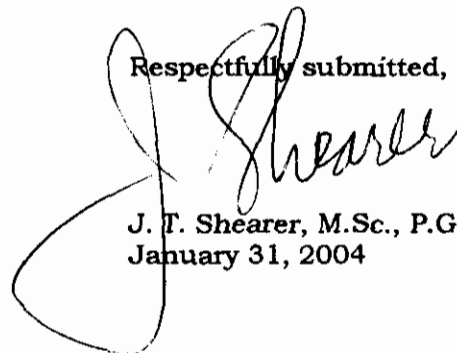
- 12) Bulk samples of 150 tonnes was excavated in November 2002 and continuing geological mapping completed.
- 13) Trenching was completed in February and October 2002 along line 11W (65m) and along 10+70W (75m) within gently dipping Quatsino limestone. The massive magnetite outcrop was stripped along a width of 65m.
- 14) 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.
- 15) 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.
- 16) 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 SiO₂.

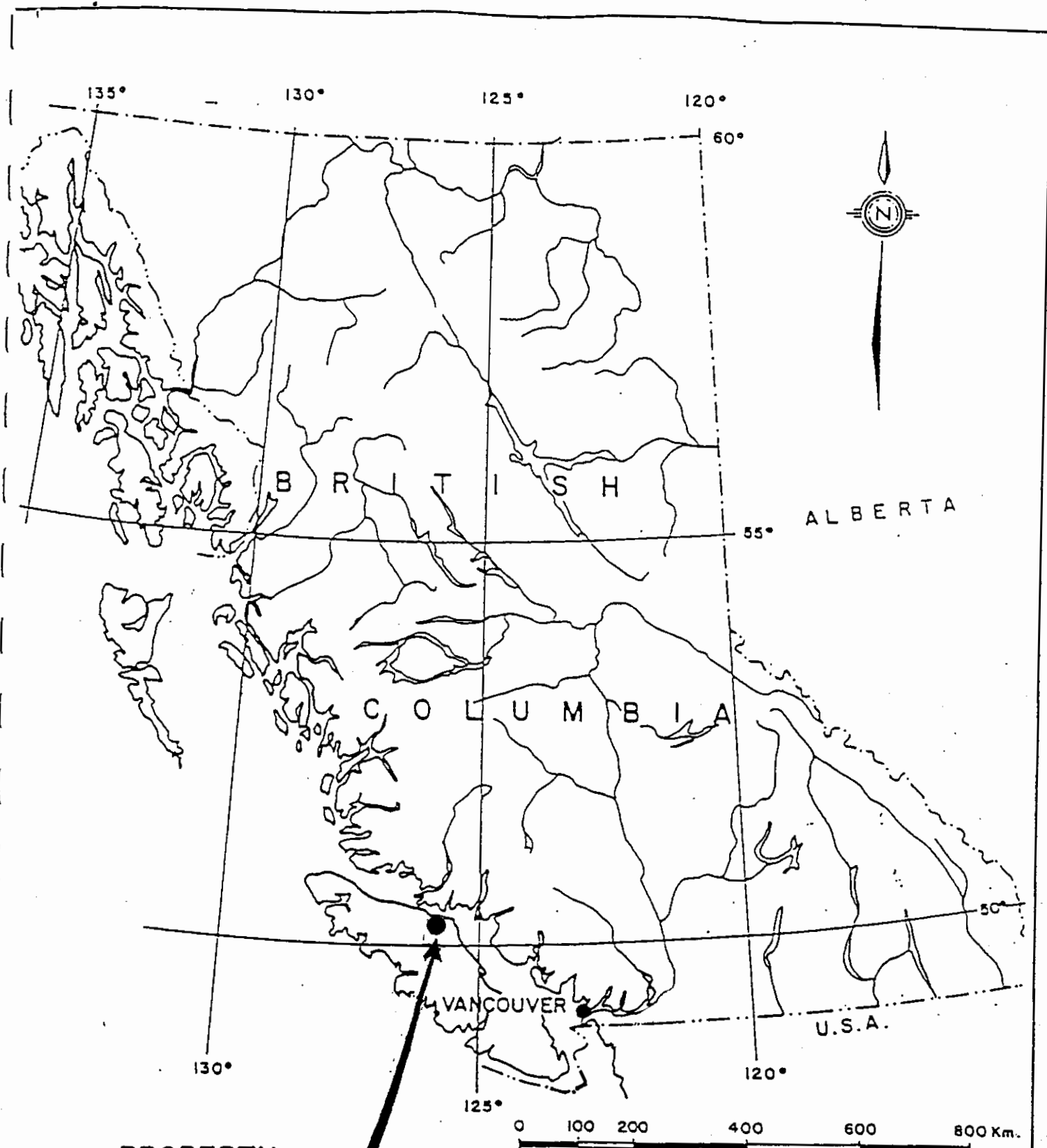
- 17) A ground magnetometer survey was completed in the summer of 2003 on well cut out lines totalling 12.0 line kilometres.
- 18) The Iron Steve Zone exhibits an intense, well defined, ground magnetometer anomaly approximately 30m wide by at least 150m long. Much of the anomaly has a 20,000 gamma contrast. The exact width is poorly constrained due to fewer lines to the south and the deposit appears to swing to the northwest. At least 25 drillholes are recommended.
- 19) 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.
- 20) A small magnetite zone is suggested by higher readings on Lines 18 and 20 between the West Pit and the Main Pit. Three holes are recommended.
- 21) A low order magnetic anomaly is present to the west of the West Pit. Two to four drill holes are warranted.
- 22) 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.
- 23) 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.

- 24) 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.
- 25) 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.
- 26) An area of 4000 gamma readings is present on the west side of Lines 45 and 46 in steeper terrain. Detail prospecting is recommended.
- 27) 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.
- 28) The lines southeast of the Iron Bethea deposit (Lines 55-58) all exhibit low background values suggesting low magnetite potential.
- 29) 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.
- 30) Hillsborough Resources was successful in excavating a high grade magnetite bulk sample of 150 tonnes, which was used in a super-heavy concrete application in a Vancouver construction project.
- 31) A follow-up diamond drill program is recommended for 2004, as outlined in this report, to explore for magnetite mineralization and define geological structure.

Respectfully submitted,



J. T. Shearer, M.Sc., P.Geo.
January 31, 2004



PROPERTY
LOCATION

HOMEGOLD RESOURCES LTD.		
IRON ROSS PROJECT		
ROSS CLAIMS LOCATION MAP		
NTS 92K/05W	September 2001	SCALE as shown
WORK BY J. T. Shearer, M.Sc., P. Geo		FIGURE 1

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.

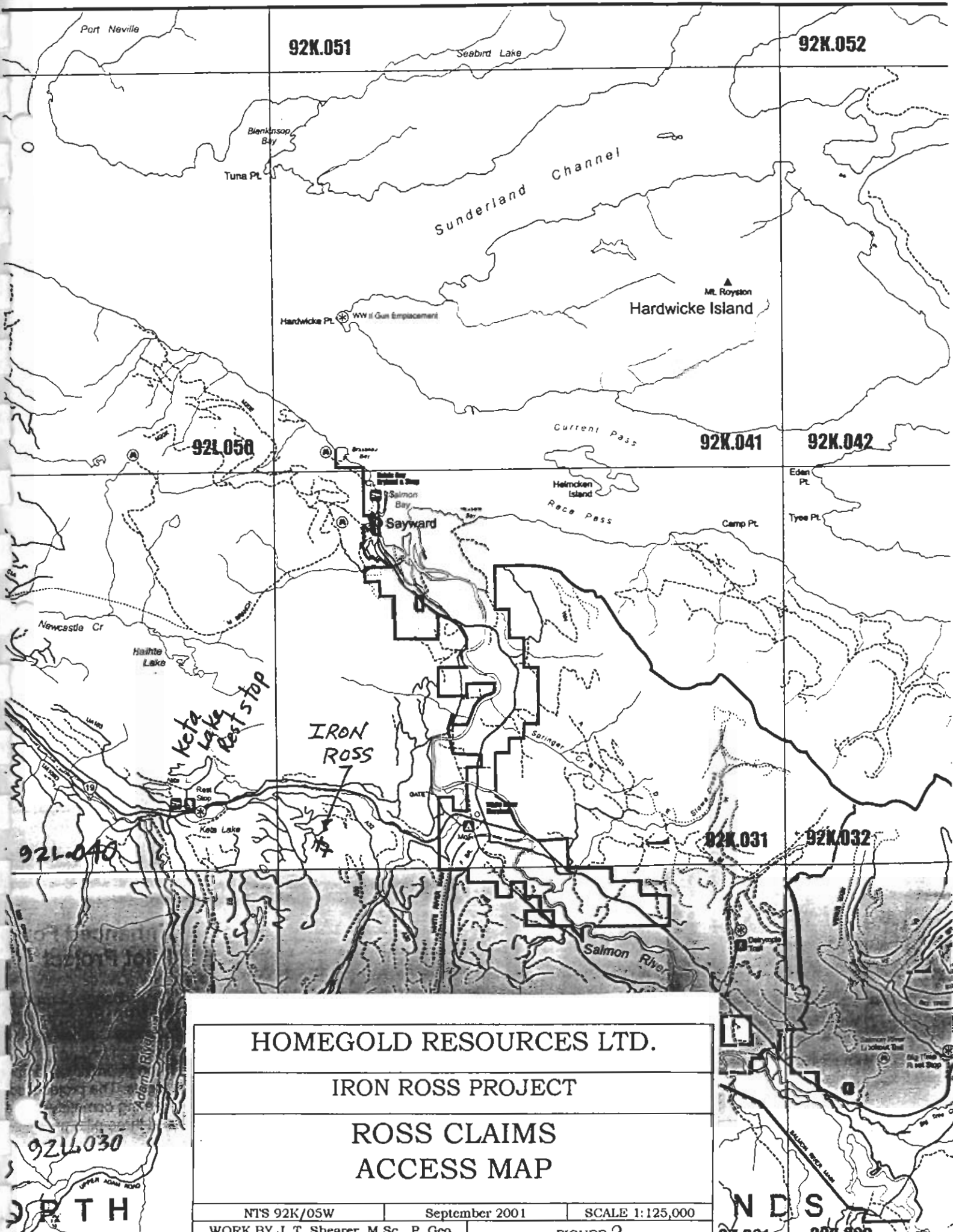
Magnetite concentrates from the Iron Mike were apparently shipped (by ocean-going vessel) out of Menzies Bay 52.2 km to the south. However, as part of a major reorganization of their island operations, the large dryland Log sort operated in Sayward by Weyerhaeuser is scheduled to be phased out during 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 that may start in early 2002 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% SiO₂, 5.1% Al₂O₃ but only 45% Fe₂O₃. Anyox slag also assays typically about 3% SO₃ 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.



HOMEGOLD RESOURCES LTD.

IRON ROSS PROJECT

ROSS CLAIMS
ACCESS MAP

NTS 92K/05W

September 2001

SCALE 1:125,000

WORK BY J. T. Shearer, M.Sc., P. Geo

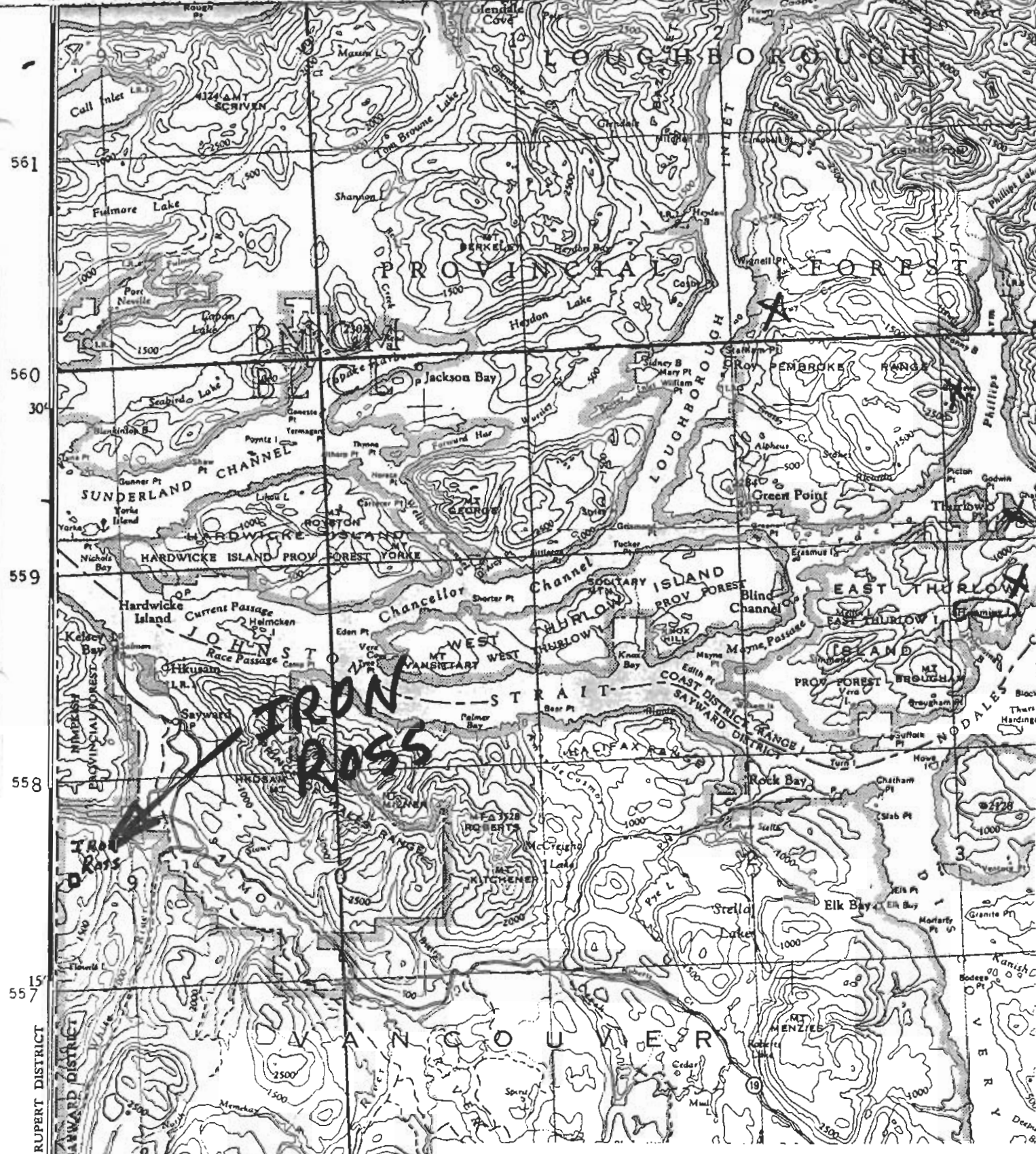
FIGURE 2

N D S

92K.021

92K.022

D P T H



561
560
30
559
558
557
556

RUPERT DISTRICT

HOMEGOLD RESOURCES LTD.		
IRON ROSS PROJECT		
ROSS CLAIMS ACCESS MAP		
NTS 92K/05W	September 2001	SCALE 1:125,000
WORK BY J. T. Shearer, M.Sc., P. Geo		FIGURE 2

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.

Formerly, 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 Tlowiis (lower Elk) Creek has been recently removed but recent plans call for this bridge to be re-installed and road construction built to access stands of old growth around the Iron Bethea area.

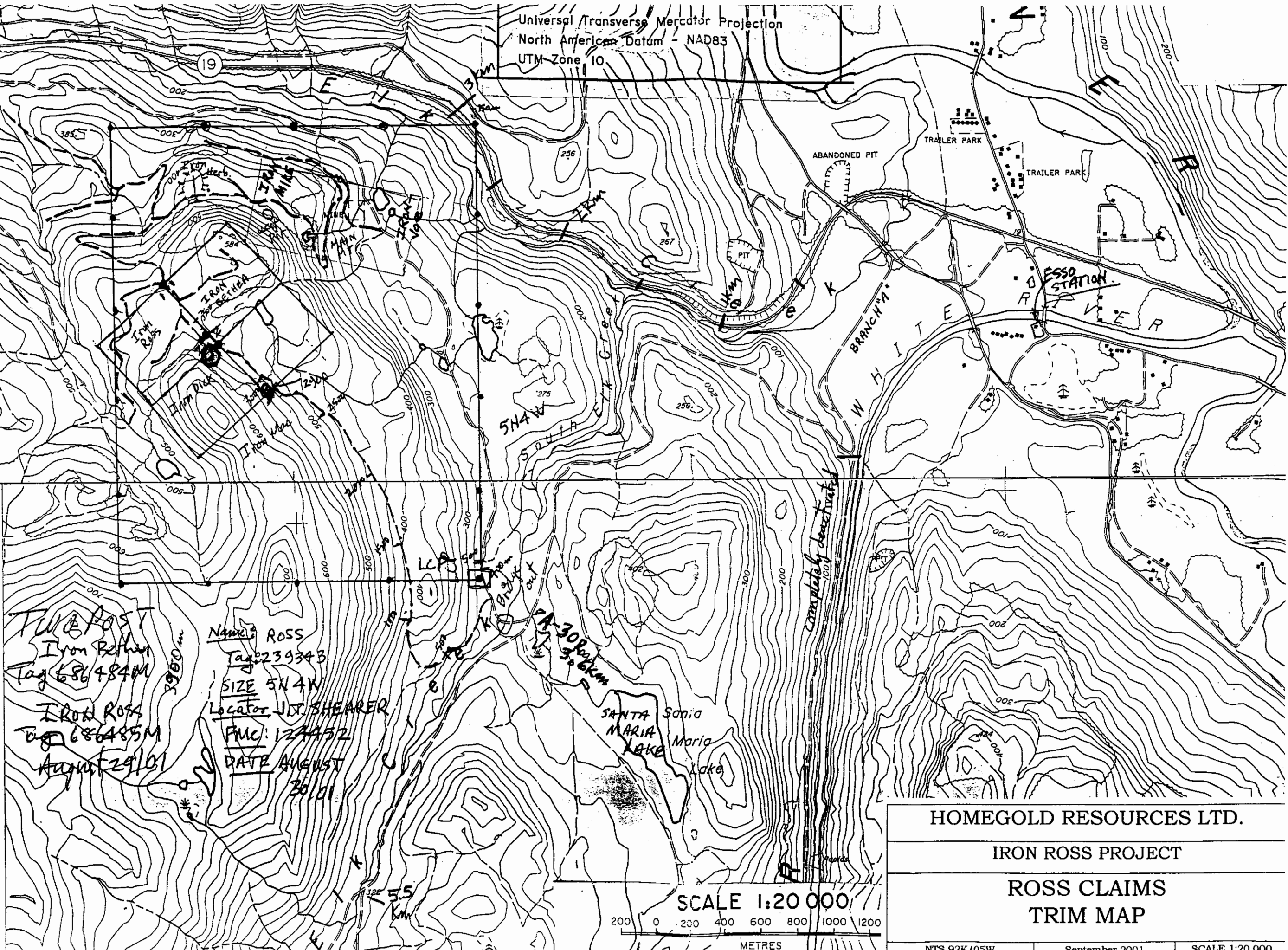
The claims have a variety of second growth and old growth patches of forest. Some of the second growth dates to the 1950's and 1960's along A-32 road. The second growth on the Elk Creek Mainline appears to be in the late 1980's and some harvesting is still taking place along A-30 and Elk Creek 500 branch.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

Universal Transverse Mercator Projection
North American Datum - NAD83
UTM Zone 10

Intrusive contact

5576000

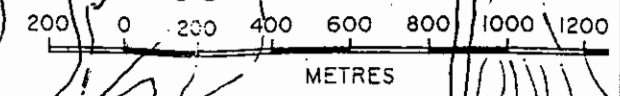
92K/05W



Iron Ross
Tag 686484M
Iron Ross
Tag 686485M
August 29/01

Name: ROSS
Tag: 239343
SIZE: 5N4W
Locator: J.T. SHEARER
FMC: 124452
DATE: AUGUST 26/01

SCALE 1:20 000



HOMEGOLD RESOURCES LTD.

IRON ROSS PROJECT

ROSS CLAIMS
TRIM MAP

CLAIM STATUS

The Iron Ross (Sayward) Project consists of 5 claims as listed in Table I and shown on Figure 3.

TABLE I
List of Claims

Claim Name	Tenure #	Size	Units	Date Located	Current Anniversary Date*	Owner
Ross	389167	4N4W	20	August 30, 2001	April 1, 2007	J. T. Shearer
Iron Bethea	389168	2 post	1	August 29, 2001	April 1, 2007	J. T. Shearer
Iron Ross	389169	2 post	1	August 29, 2001	April 1, 2007	J. T. Shearer
Iron Joe	231489	2 post	1	March 9, 2001/158	March 9, 2007	Hartt et.al.
Iron Mike	231490	2 post	1	March 9, 2001/158	March 9, 2007	Hartt et.al.

Total 24 Units

*by application of assessment work documented in this report.

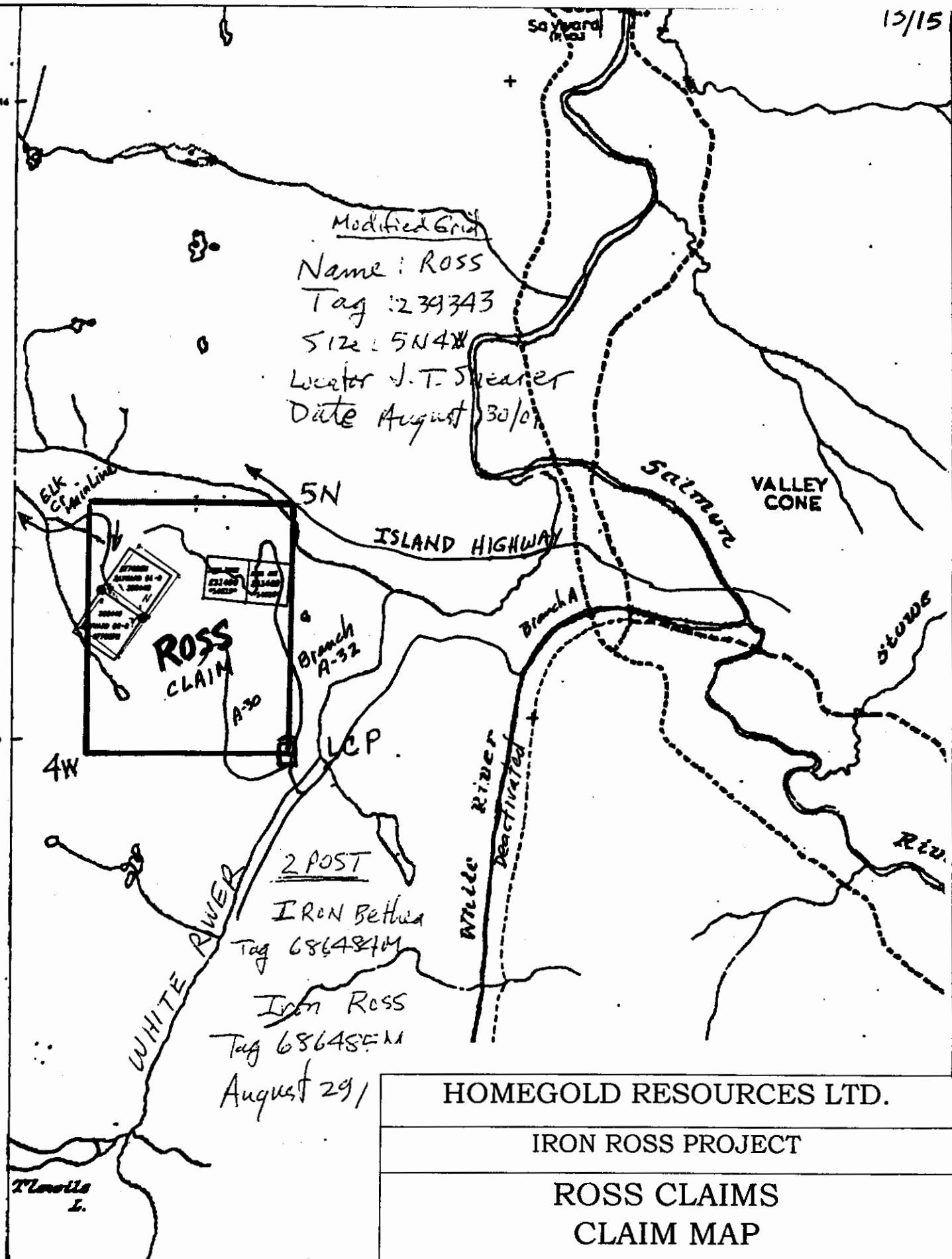
Mineral title is acquired in British Columbia via the Mineral Act and regulations, which require approved assessment work to be filed each year in the amount of \$100 per unit per year for the first three years and then \$200 per unit per year thereafter to keep the claim in good standing.

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 is taken up by 2-post claims Iron Mike (231490) and Iron Joe (231489). These two claims are owned by Margret Birkenhead 33.3334%, Eileen Hartt 33.3322%, and Audrey Larsen 33.3334% and presently are also under option to Hillsborough as of 2003.

In August 2002 the Iron Ross claims were optioned to Hillsborough Resources Limited.

Modified Grid
 Name: ROSS
 Tag: 1239343
 Size: 5N4W
 Locator: J.T. Shearer
 Date: August 30/01



HOMEGOLD RESOURCES LTD.		
IRON ROSS PROJECT		
ROSS CLAIMS CLAIM MAP		
NTS 92K/05W	September 2001	SCALE 1:31,680
WORK BY J. T. Shearer, M.Sc., P. Geo		FIGURE 4

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.
- 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.
- 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. 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.
- 2004 - Proposed diamond drilling.

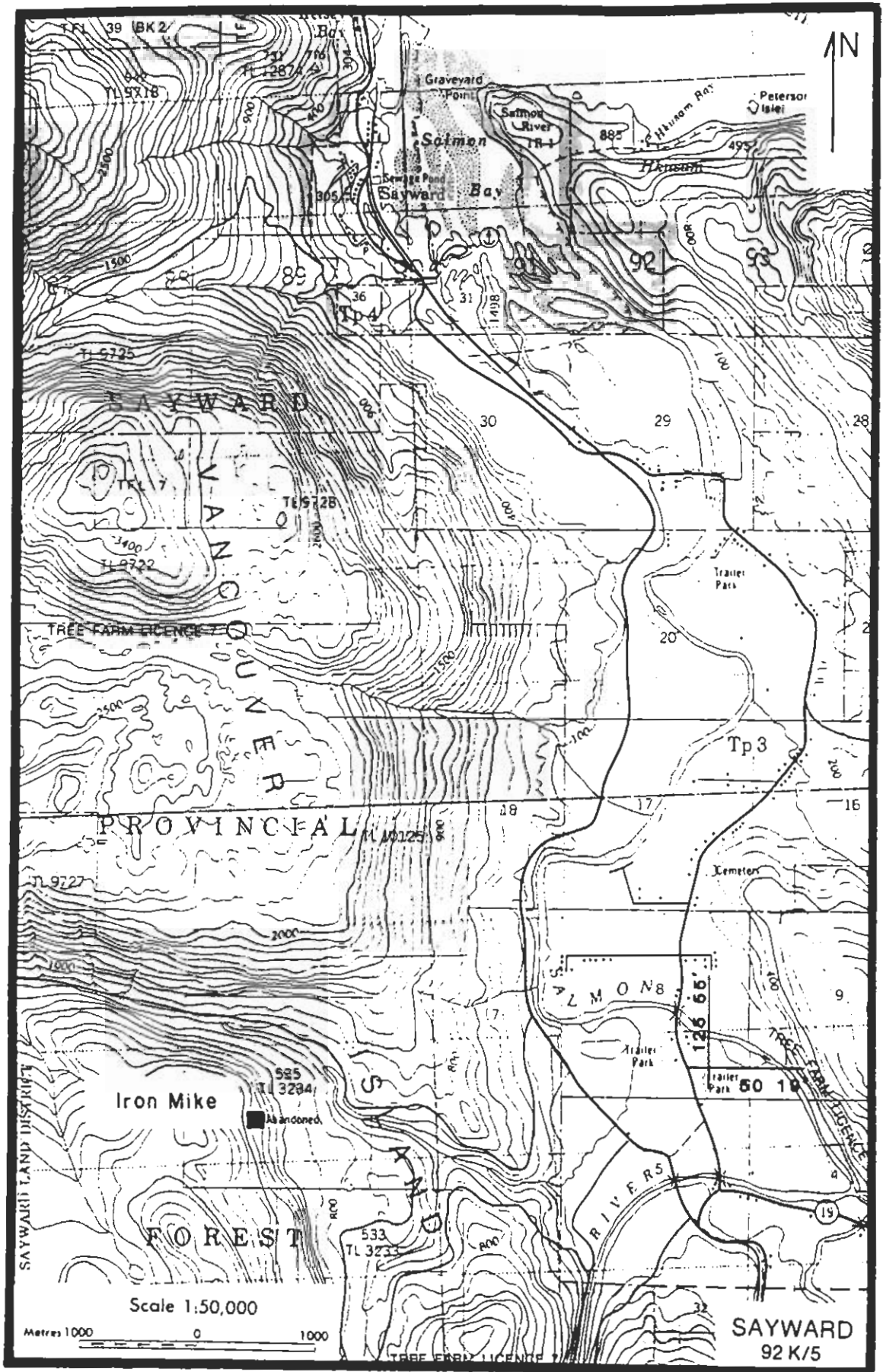


Figure 9 : Location of the Iron Mike mine

REGIONAL GEOLOGY

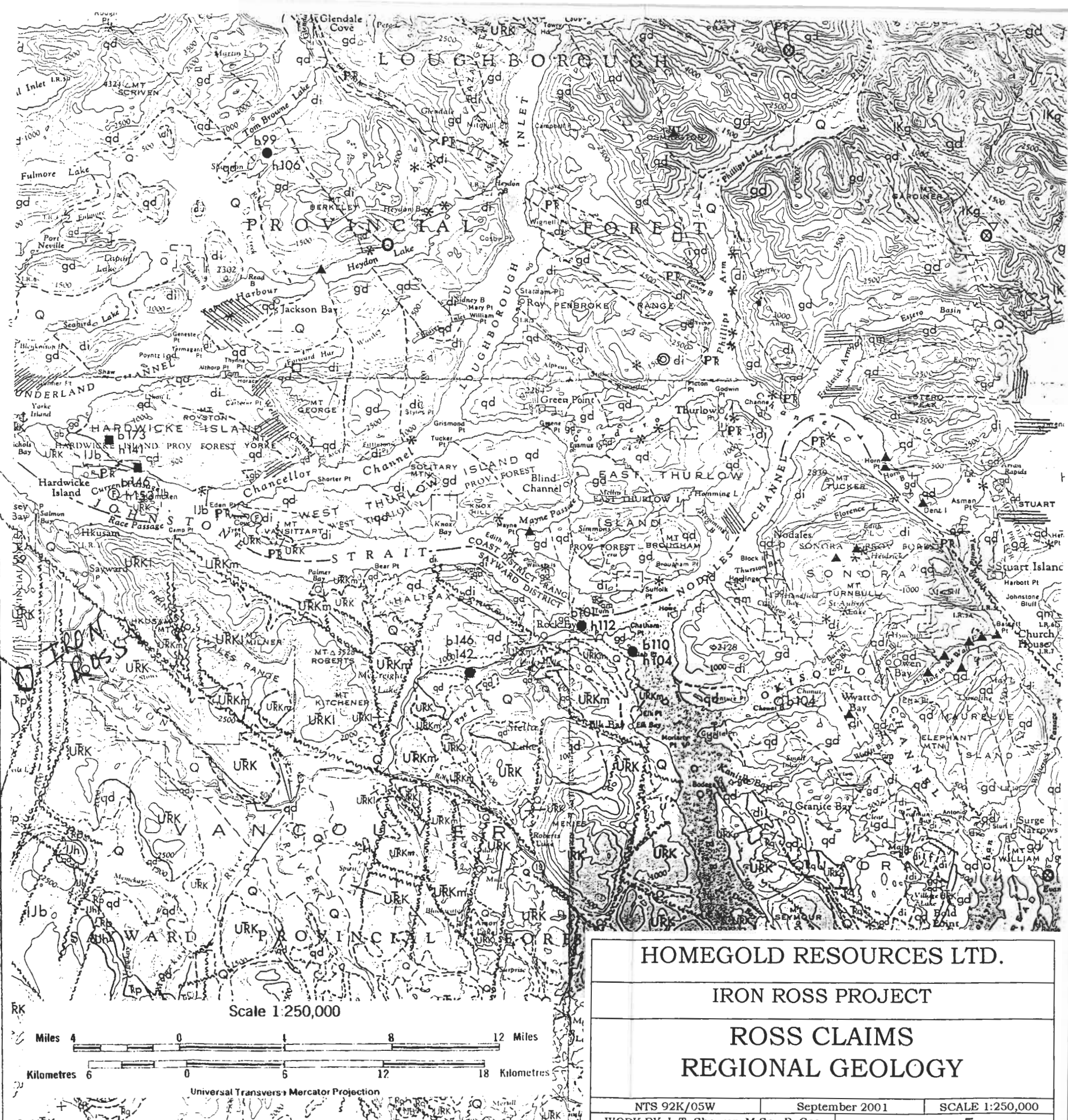
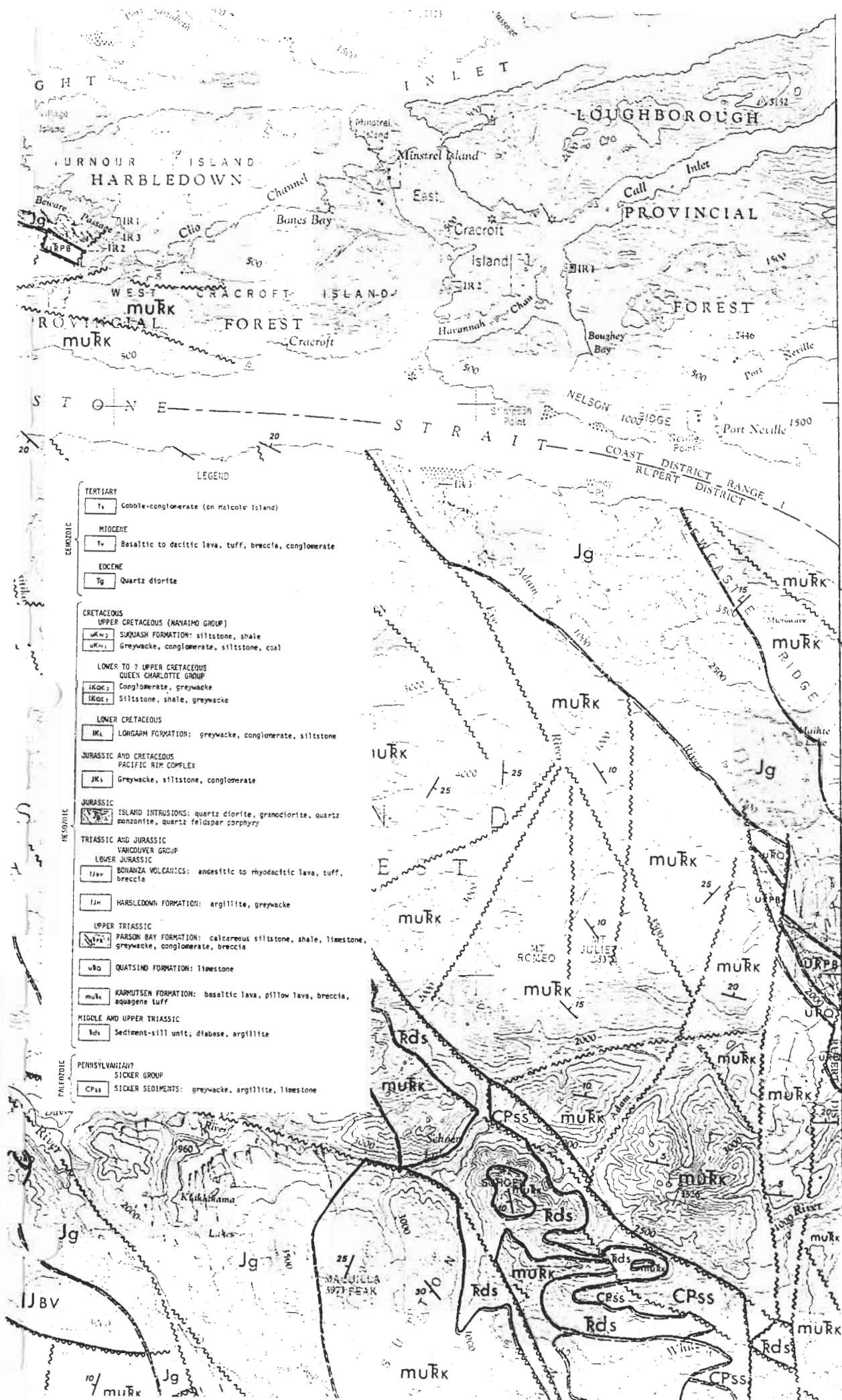
Regional geology has been mapped by Muller et al (1974) (92L) and Roddick (1980) (92K) and is published as Geological Survey of Canada Paper 74-8 on the general area to the west of the Iron Ross Project (Muller, Northcote and Carlise, 1974). Northern Vancouver Island and Adjacent Mainland has a complex structural history with frequent rejuvenation of major structures. All Paleozoic 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 intrusive 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.



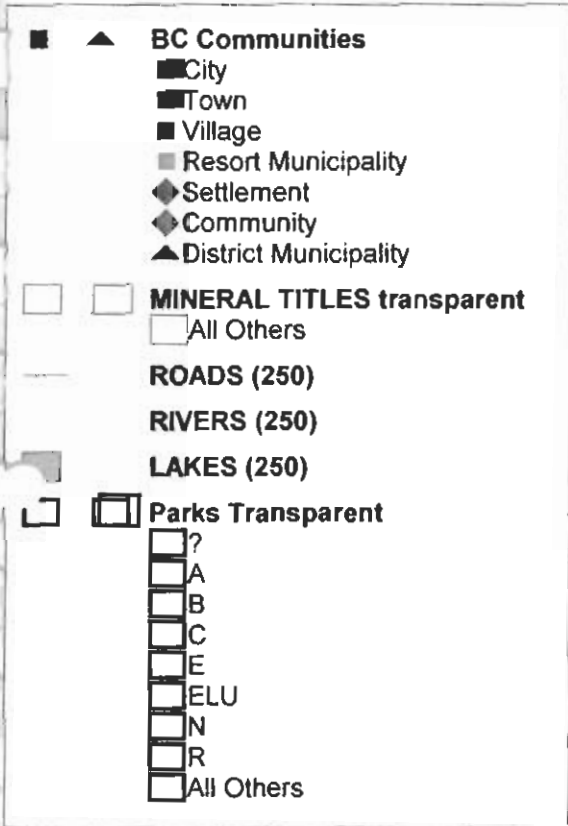
HOMEGOLD RESOURCES LTD.

IRON ROSS PROJECT

ROSS CLAIMS

REGIONAL GEOLOGY

NTS 92K/05W	September 2001	SCALE 1:250,000
WORK BY J. T. Shearer, M.Sc., P. Geo		FIGURE 5



SCALE 1 : 543,680



N



Regional
Geology

FIG 6

Tuesday, December 19, 2000 10:11 AM

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).

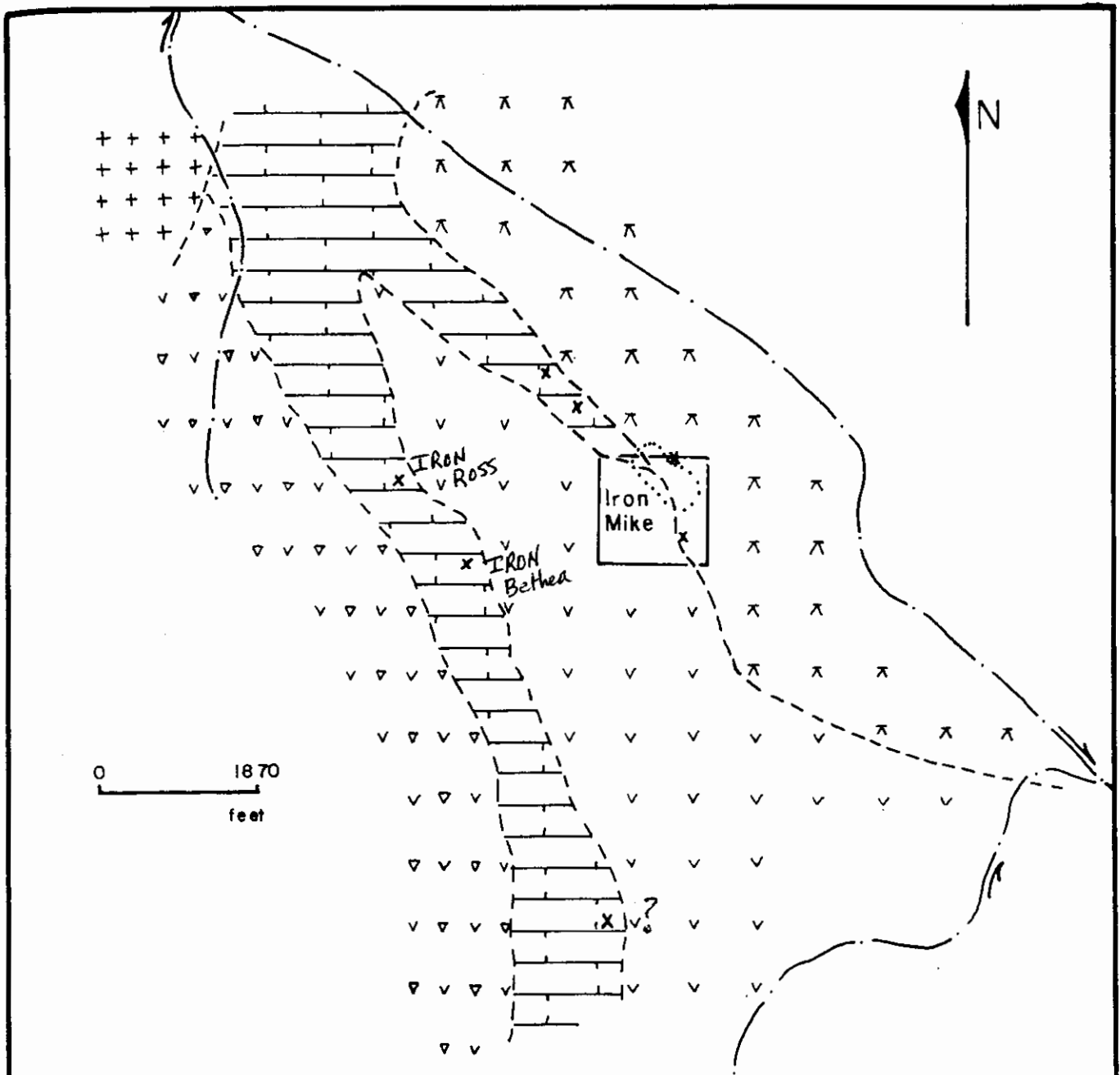
The ore remnants in the Main Pit are dark black medium crystalline nearly pure magnetite. The magnetite occurs as mainly massive to occasional thin bedded layers. In the West Pit area the magnetite occurs as irregular bands and lenses in a highly altered volcanic. The ratio of magnetite and altered volcanics 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.

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° to 40° west.



- + + Granite Intrusion
- v v v Tuff
- v v Volcanic Rocks
- | | | Limestone
- x x Pillowed Basalt

- contact
- outline of orebody
- x magnetite outcrop

Figure 10 : Sketch geol
(after Hill and Starck,)

HOMEGOLD RESOURCES LTD.		
IRON ROSS PROJECT		
ROSS CLAIMS LOCAL GEOLOGY		
NTS 92K/05W	September 2001	SCALE 1:22,440
WORK BY J. T. Shearer, M.Sc., P. Geo		FIGURE 6

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>	<u>Mag Fe (Sat)</u>
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.

12102

SYMBOLS

- OUTCROP & OUTCROP AREA
- STRIKE & DIP
- JOINT - VERTICAL, INCLINED
- FAULT
- CONTACT - OBSERVED, INFERRED
- CREEK
- ROAD
- LAKE OR RIVER
- CREST OF PIT
- TOE OF PIT

LEGEND

- 5 UPPER BASALT OR UNDETERMINED
- 4 TUFF
- 3 LIMESTONE
- 2 MAGNETITE
- 1 LOWER BASALT

GEOLOGICAL BRANCH
ASSESSMENT REPORT

12,102
MAP #4

PART
1 OF 3

CONTOUR INTERVAL 100 FEET

DICKENSON MINES LIMITED

HOMEGOLD RESOURCES LTD.

IRON ROSS PROJECT

ROSS CLAIMS
PROPERTY GEOLOGY

NTS 92K/05W	September 2001	SCALE 1:5,000
WORK BY J. T. Shearer, M.Sc., P. Geo		FIGURE 7



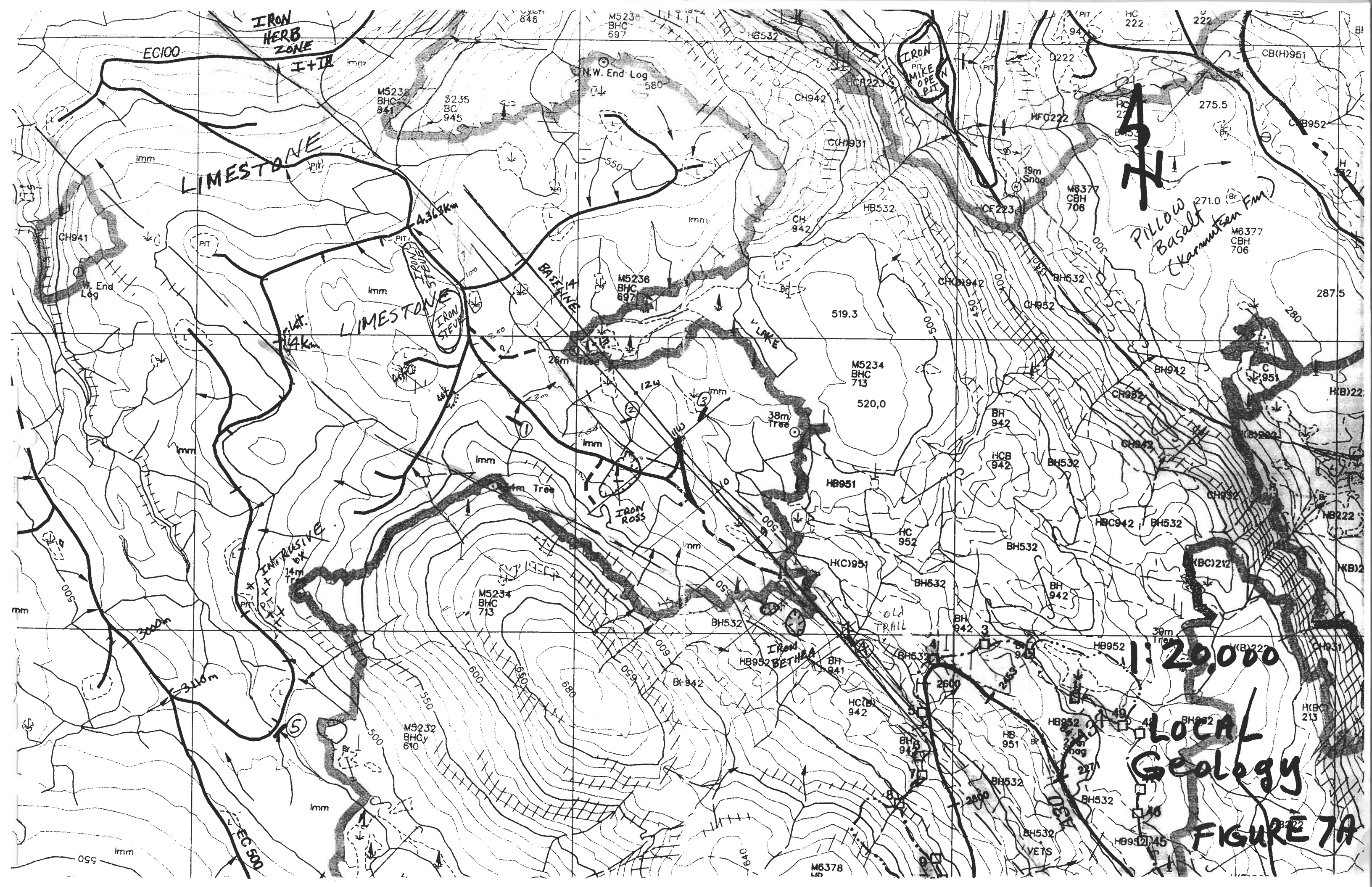
TRENCHING PROGRAM COMPLETED in OCTOBER 2002

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 outcrop as illustrated in Figure 10 (in pocket).



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 (in pocket).

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."

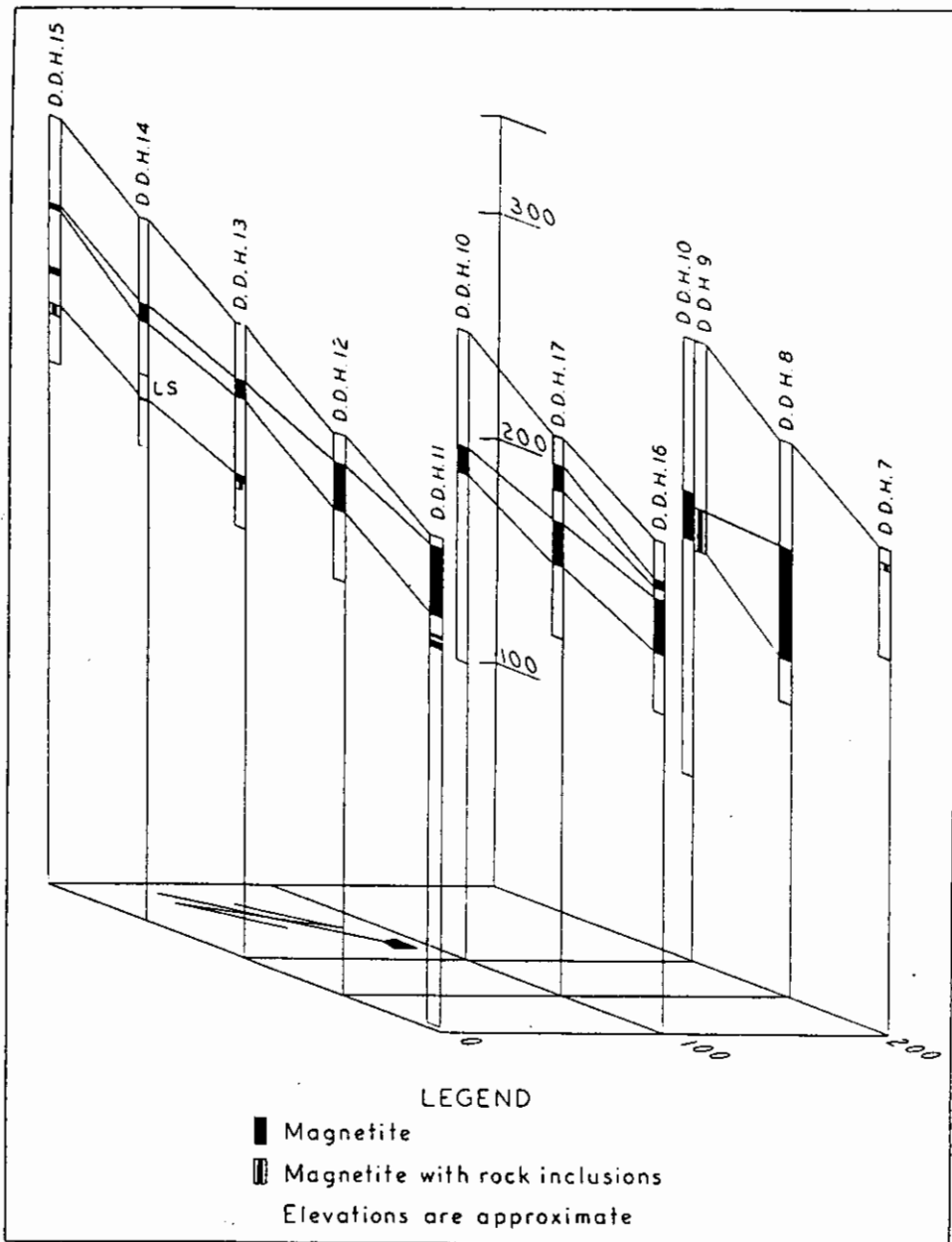


Figure 12. Diamond-drill intersections on the Iron Mike property.

ARMM.

1961
page 92

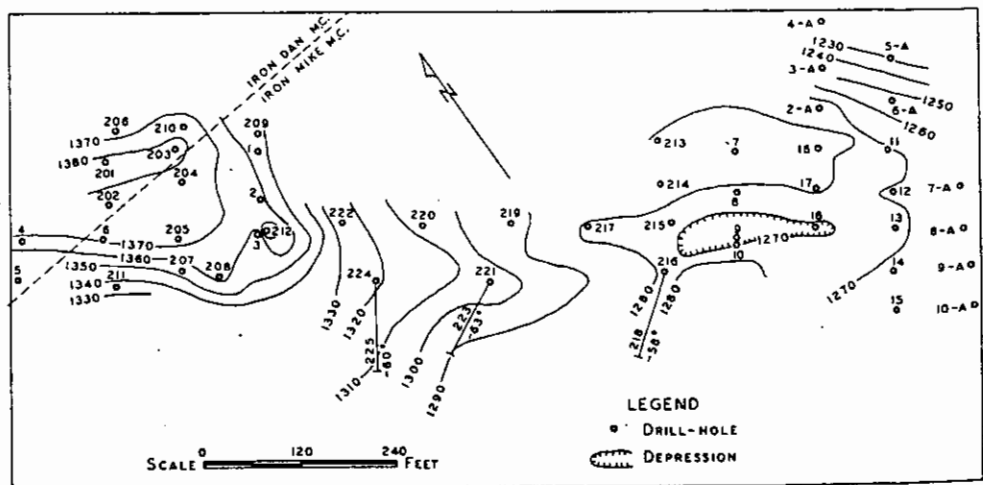


Figure 30. Orecan magnetite zone. Structural contours on hanging wall.

1965
ARMM. page 226

HOMEGOLD RESOURCES LTD.

IRON ROSS PROJECT

ROSS CLAIMS

DIAMOND DRILLING on IRON MIKE 1961
and

STRUCTURAL COUNTOURS on HANGING WALL

SCALE as shown

September 2001

WORK BY J. T. Shearer, M.Sc., P. Geo

FIGURE 8

PERCUSSION DRILLING OCTOBER 2002

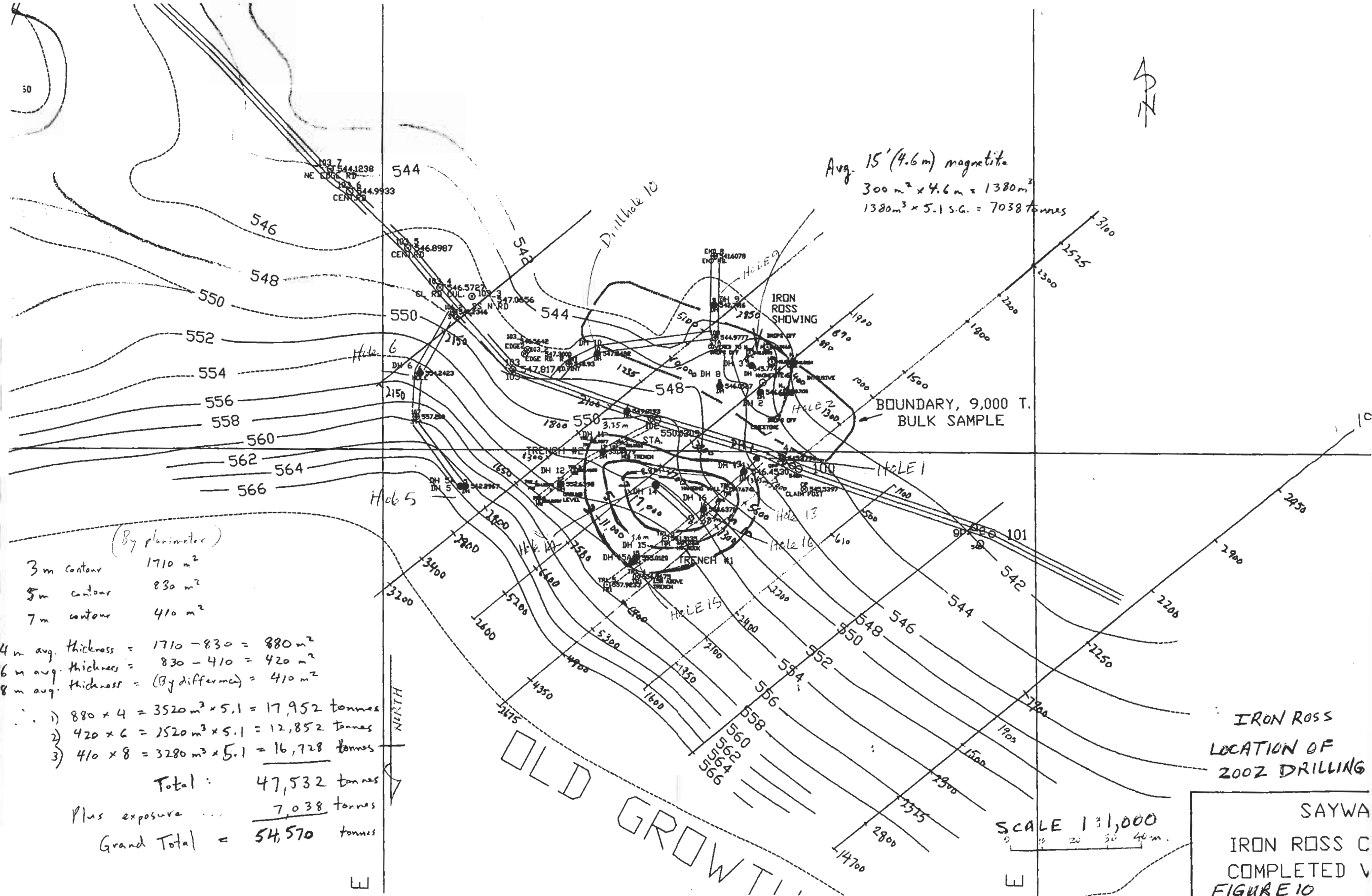
Percussion drilling in October 2002 totalled 970 feet (295.66m) in 17 holes mainly around the Iron Ross surface showing and in 2002 trenching as documented in Shearer (2002). (See figure 9 for locations.)

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 (refer to Appendix IV for drill logs). 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 southside 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.



Avg. 15' (4.6 m) magnetite
 $300 \text{ m}^2 \times 4.6 \text{ m} = 1380 \text{ m}^3$
 $1380 \text{ m}^3 \times 5.1 \text{ S.G.} = 7038 \text{ tonnes}$

BOUNDARY, 9,000 T. BULK SAMPLE

IRON ROSS
 LOCATION OF
 200Z DRILLING

SAYWA
 IRON ROSS C
 COMPLETED V
 FIGURE 10

SCALE 1:1,000

(By planimeter)

3 m contour 1710 m²
 5 m contour 830 m²
 7 m contour 410 m²

4 m avg. thickness = $1710 - 830 = 880 \text{ m}^2$
 6 m avg. thickness = $830 - 410 = 420 \text{ m}^2$
 8 m avg. thickness = (By difference) = 410 m^2

1) $880 \times 4 = 3520 \text{ m}^3 \times 5.1 = 17,952 \text{ tonnes}$
 2) $420 \times 6 = 2520 \text{ m}^3 \times 5.1 = 12,852 \text{ tonnes}$
 3) $410 \times 8 = 3280 \text{ m}^3 \times 5.1 = 16,728 \text{ tonnes}$

Total: 47,532 tonnes

Plus exposure 7,038 tonnes

Grand Total = 54,570 tonnes

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.

Drill records are contained in Appendix V. 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 Cross-Sections 0+20N to 1+20N (Figures 16 to 22) and on Longitudinal Sections 0+30 and 0+00, Figure 14 and 15 (in pocket).

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.

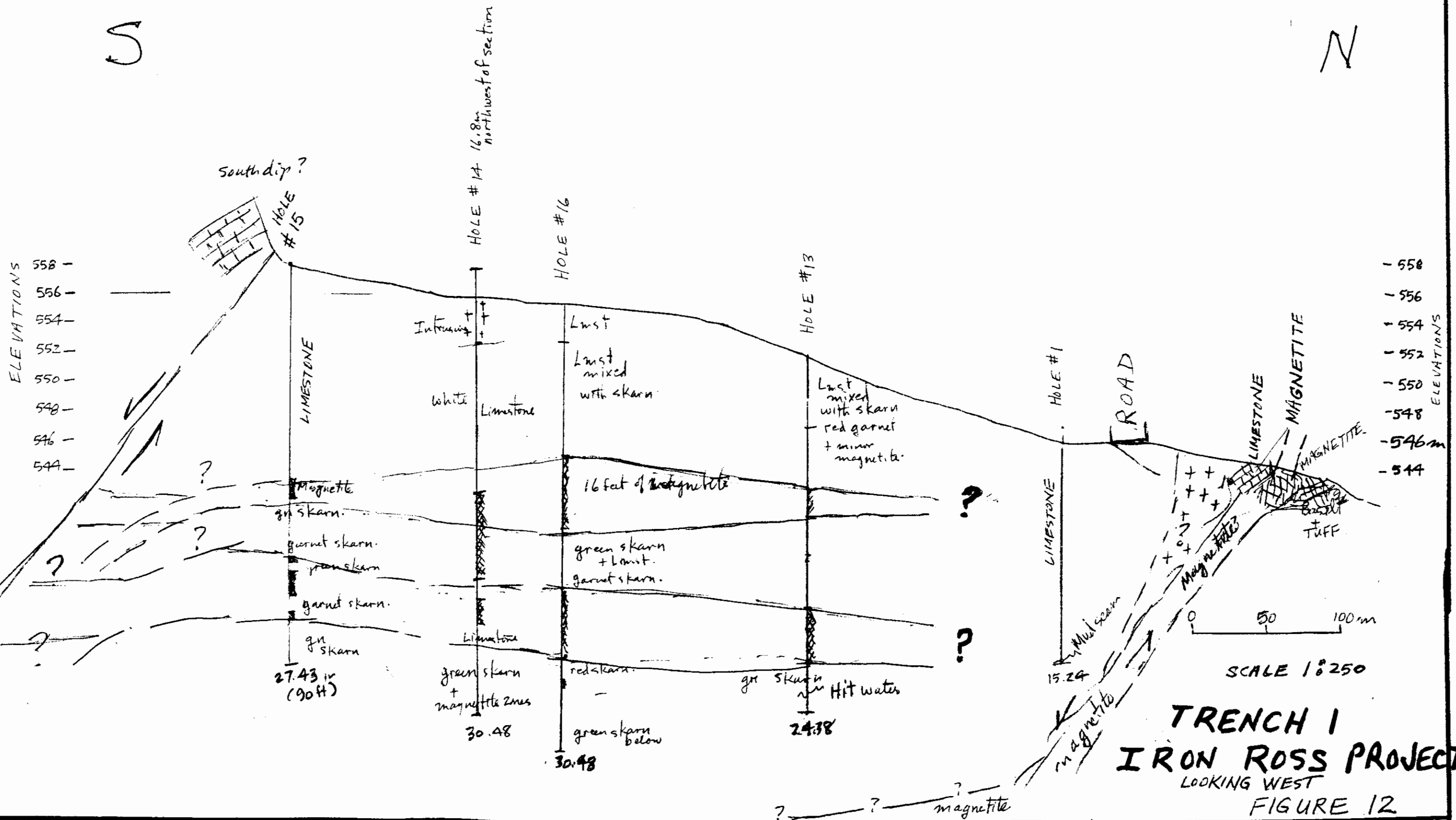
Additional percussion drill holes were drilled on the other known zones, Iron Herb I and Iron Herb II to the south east of the Iron Steve Zone. Drill Holes 03-22 and 23 were located north of Iron Steve Zone entirely within limestone intrusives.

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.

S

N



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 Mike Main Zone (from Atherton, 1983)

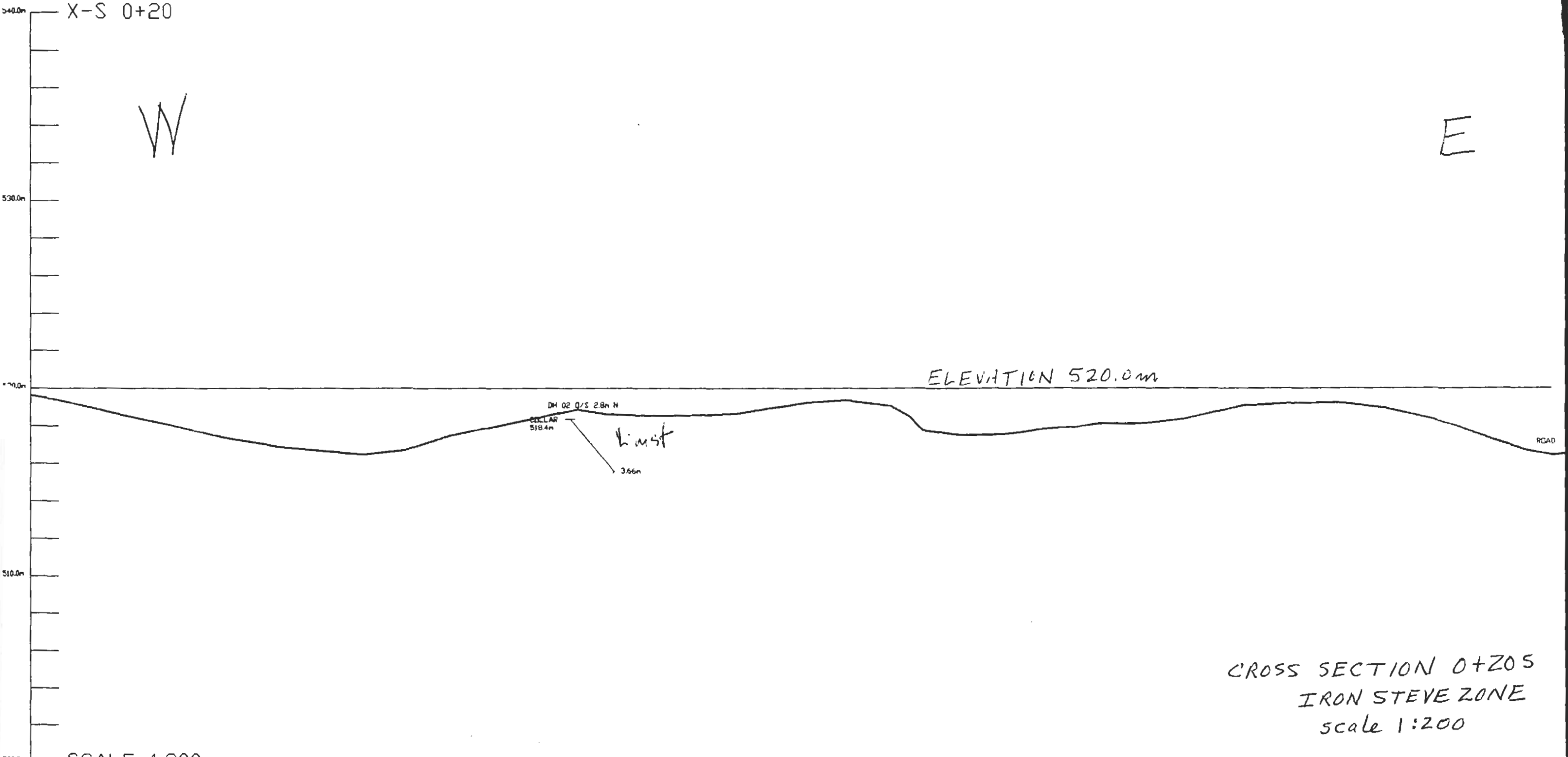
Section	Sample Number	*Interval Relative Height In Metres	Thickness in Metres	Mag. Fe Satmagan%	Grade Sol Fe %
2 East Wall	1701	437.1-437.5	0.6	53.6	58.5
	1702	437.5-438.3	0.8	15.8	17.3
	1703	438.3-439.2	0.9	41.6	45.8
	1704	439.2-441.1	1.9	16.3	26.5
	1705	441.1-442.0	0.9	25.9	29.8
3 East Wall	1706	437.1-441.7	4.6	49.0	52.0
4 East Wall	1707	437.3-439.0	1.7	37.7	42.7
	1708	444.6-447.5	2.9	55.6	58.7
5 South Wall	1709	437.0-439.0	2.0	48.6	53.5
	1710	440.1-442.2	2.1	44.6	49.2
6 South Wall	1711	436.6-439.2	2.6	53.3	57.7
	1712	439.2-441.8	2.6	57.2	60.0
7 South Wall	1713	437.7-440.2	2.5	53.4	57.3
	1714	440.2-442.7	2.5	53.4	56.7
8 South Wall	1715	439.0-442.0	3.0	45.5	49.1
	1716	442.0-445.0	3.0	48.4	52.7
	1717	446.9-448.5	1.6	56.6	60.3
9 South Wall	1718	439.7-443.2	2.5	57.6	61.9
	1719	443.2-446.8	3.6	31.2	36.4
10 South Wall	1720	437.1-441.1	4.0	39.9	43.3
	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 West Wall	1724	437.9-439.9	2.0	45.1	49.1
	1725	439.9-441.9	2.0	53.2	56.1

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

X-S 0+20

W

E



ELEVATION 520.0m

DH 02 0/S 28m N

COLLAR 518.4m

Linst

3.66m

ROAD

SCALE 1:200

CROSS SECTION 0+20S
IRON STEVE ZONE
scale 1:200

Looking North
FIGURE 16

X-S 0+40

W

E

ELEVATION

550.0m
540.0m
530.0m
520.0m
510.0m

Elevation 520.0m

DH 02 046 3.4m N
COLLAR 520.9m

soft
Lmst

possible
hole
in ground

blank

14.63m

DH 25 045 8.8m N

COLLAR 522.8m

magnetite

garnet skarn

Lmst

magnetite

garnet skarn

Lmst + garnet
skarn

15.85m

MAIN ROAD

SCALE 1:200

CROSS SECTION 0+40S
IRON STEVE ZONE
SCALE 1:200

LOOKING NORTH

FIGURE 17

X-S 0+55

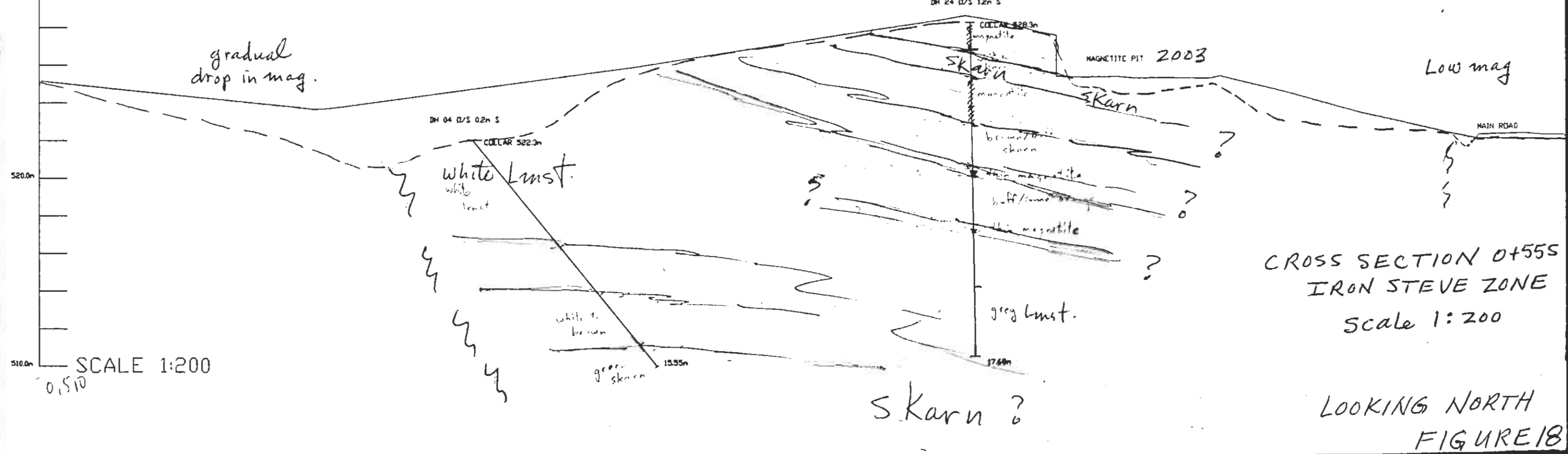
914,550

W

E

ELEVATION

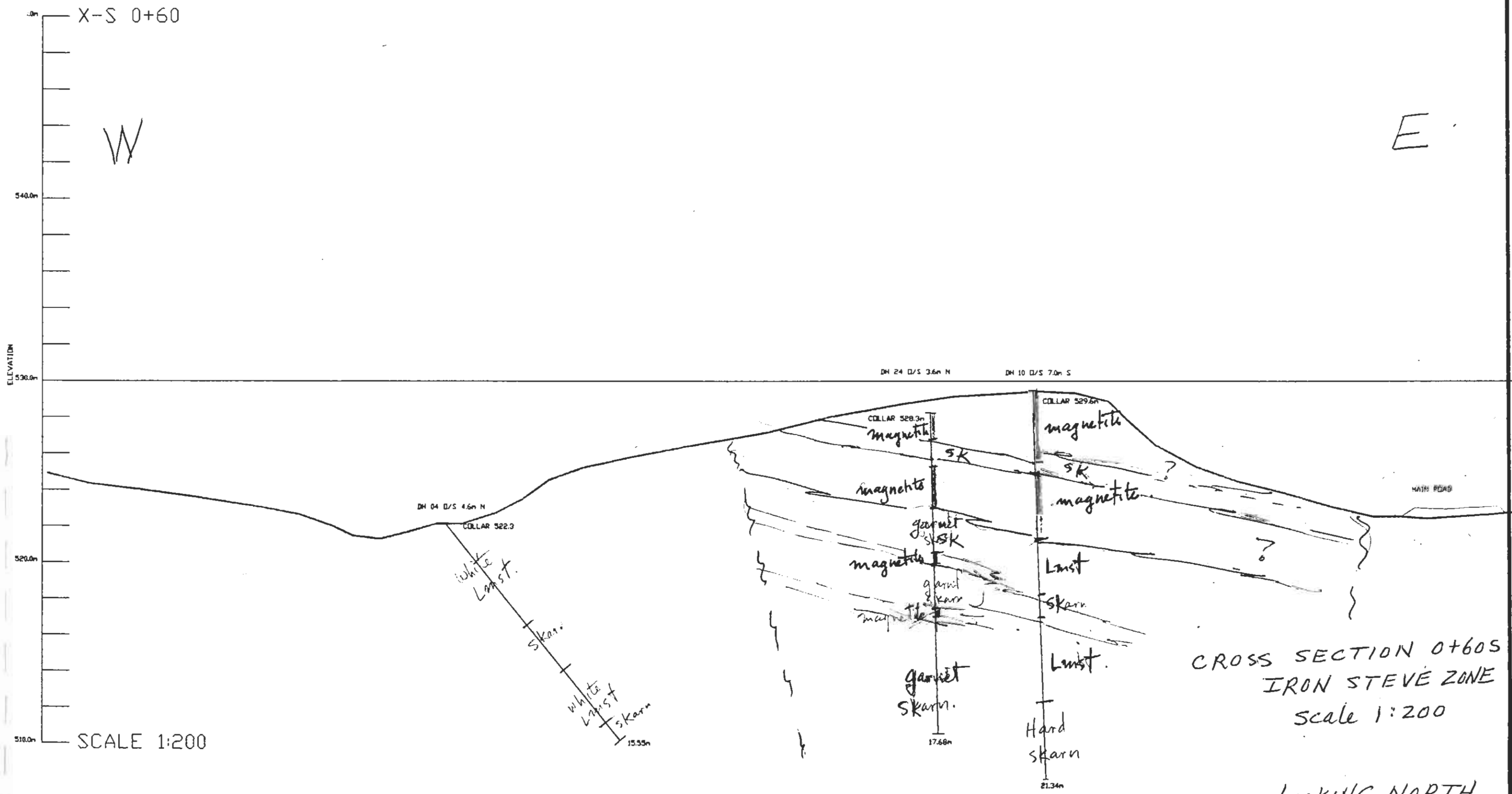
Elevation 530.0m



SCALE 1:200

CROSS SECTION 0+55S
IRON STEVE ZONE
Scale 1:200

LOOKING NORTH
FIGURE 18



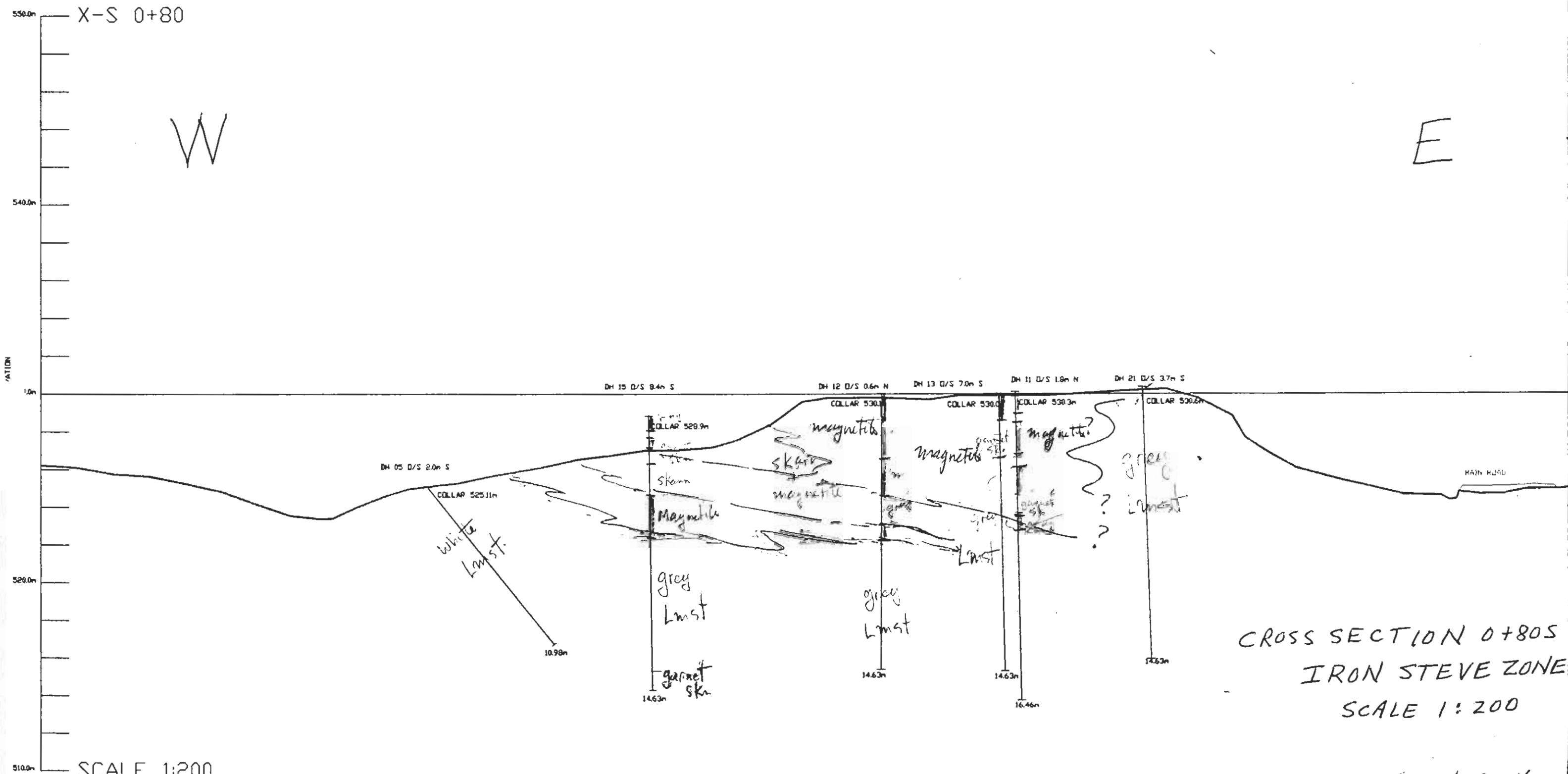
CROSS SECTION 0+60S
 IRON STEVE ZONE
 Scale 1:200

LOOKING NORTH
 FIGURE 19

X-S 0+80

W

E



CROSS SECTION 0+80S
 IRON STEVE ZONE
 SCALE 1:200

LOOKING NORTH

FIGURE 20

X-S 1+00

W

E

VATION
550.0m
540.0m
530.0m
520.0m
510.0m

DH 14 D/S 5.8m N DH 16 D/S 2.2m N

DH 06 D/S 0.8m S

COLLAR 527.7m

White
Lmst

9.15m

DH 17 D/S 4.2m S

COLLAR 529.0m

garnet
skarn
magi

grey
Lmst

14.63m

COLLAR 530.2m

magnetite

garnet
skarn

grey
Lmst

10.98m

COLLAR 530.2m

garnet
skarn

grey
Lmst

10.98m

MAIN ROAD

CROSS SECTION 1+100S
IRON STEVE ZONE
Scale 1:200

SCALE 1:200

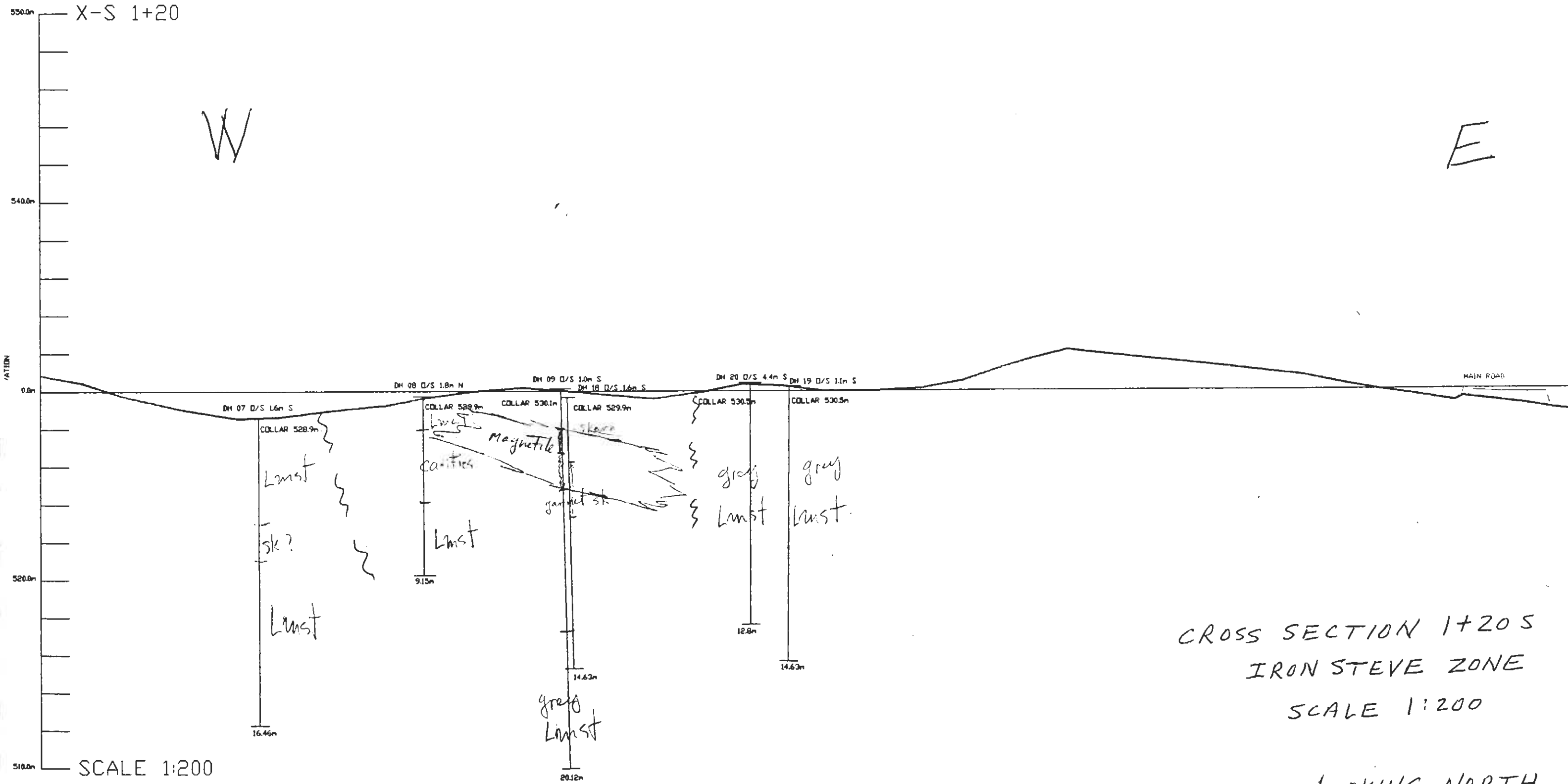
LOOKING NORTH

FIGURE 21

X-S 1+20

W

E



SCALE 1:200

CROSS SECTION 1+20 S
 IRON STEVE ZONE
 SCALE 1:200

LOOKING NORTH
 FIGURE 22

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	1727	440.6-442.9	2.3	59.3	62.5
16					
West Wall	1728	439.2-442.8	3.6	53.8	57.4
17					
West Wall	1729	438.8-441.9	2.1	50.0	53.1
18					
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	1732	439.9-441.9	2.0	44.8	58.6
20					
West Wall	1733	438.2-441.3	3.1	48.7	54.1
21					
West Wall	1734	439.9-441.9	2.0	28.1	37.0

*refers to elevation shown on 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	1746	475.1-478.1	3.0	24.8	27.7
South Wall	1747	478.1-481.1	3.0	31.6	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 on 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 on Map #5 only (in Atherton, 1983).

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 Map 2

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 Map 2

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) refer to Map 1.

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 8,170 μ T 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 Map 3

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

The present magnetometer survey shows a northwest-southeast magnetic anomaly on Lines 13, 14, 15 and 16 (maximum reading of 13,781 gammas) 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 Map 3

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 Map 3

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 Map 4

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 present (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 not extend to the southwest.

7) & 8) South of Iron Ross, Lines 41-48 and Iron Bethea, Liens 49-57 Map 5

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 present survey (2003) only partially covers 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.

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_2O_3 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 all this work but only applies for assessment credit for the work performed in 2003.

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.

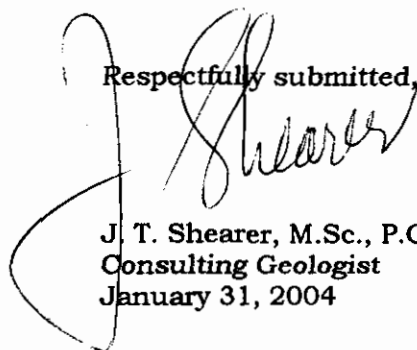
Hillsborough was successful in producing a high grade bulk sample from the Iron Steve Zone in 2003 which was used in super-heavy concrete applications.

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 that may start in early 2002 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_2 , 5.1% Al_2O_3 but only 45% Fe_2O_3 . Anyox slag also assays typically about 3% SO_3 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
January 31, 2004

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 Helper	\$ 10,000.00
	Contact Diamond Drilling (1,500 ft. @ \$19/ft.)	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	3,000.00
	Subtotal	<u>\$ 60,000.00</u>
(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 loads, 15 days, \$5/tonne approx.	25,000.00
	Barge from Sayward to Mitchell Island, \$5/tonne	30,000.00
	Load & Unload, Approx	4,500.00
	Crush at Site, Approx. \$5/tonne x 5,000 tonnes to specification	20,000.00
	Mob of Crusher and Tank Drill	5,000.00
	Road Use	5,000.00
	Supervision	5,000.00
	Subtotal	<u>\$ 115,000.00</u>
	TOTAL	\$175,500.00
(C)	Program 2005: Mine Permit work, application for 100,000 tonne per year production permit.	
	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 average, 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 & Reproduction	3,000.00
	First Nations Liaison	4,000.00
	Public Meetings & Advertising	2,000.00
	Total	<u>\$ 80,000.00</u>
Program 2004 & 2005	GRAND TOTAL	\$246,000.00

REFERENCES

- Annual Report of the Minister of Mines:
1961 - pg 92, 1962 - pg 96, 1963 - pg 99, 1964 - pg 152, 1965 - pg 225 & 420.
- Atherton, P. G., 1983a:
Report on Geological Survey and Sampling of the Pete #1, Iron Mike, Iron Joe Claims, Sayward Area, Vancouver Island, British Columbia for Dickenson Mines Limited, Dec. 29, 1983 10pp. Assessment Report 12,102 part 1.
- 1983b:
Report on Ground Magnetic Survey of the Pete #1 Claim Group Sayward Area, Vancouver Island, British Columbia for Dickenson Mines Limited, Dec. 29, 1983 10pp. Assessment Report 12,102 part 2.
- Carson, D. J. T., 1973:
The Plutonic Rocks of Vancouver Island, British Columbia: Their Petrography, Chemistry, Age and Emplacement, Geological Survey of Canada, Paper 72-44, Department of Energy Mines and Resources.
- Fischl, P., 1992:
Limestone and Dolomite Resources in British Columbia. B.C. Geological Survey, Open File 1992-18, 152 pp.
- Goudge, M. F., 1944:
Limestones of Canada, Their Occurrence and Characteristics, Report 811, part 5, pages 163-164, 175-176.
- Hancock, K. D., 1988:
Magnetite Occurrences in British Columbia, B.C. Energy and Miens, Open File, 1988 - 28, 154 pp.
- Hill, H. and Starck, L., 1963:
Report on the Hartt Iron Property of InterCan Development Ltd. Private Report.
- Hill, H., Starck, L. and Associates Ltd., 1964:
Property Report (Iron Mike); BCMEMPR Property File 92K.043, Sept. 29, 1964.
- 1965a:
Property Report (Iron Mike); BCMEMPR Property File 92K.043, Jan. 6, 1965.
- 1965b:
Property Report (Iron Mike); BCMEMPR Property File 92K.043, May 15, 1965.
- McKechnie, N. D., 1960:
Iron Mike, Mines and Petroleum Resources Report 1960, pp 105, 106.
- Muller, J. E., Northcote, K. E. and Carlise, D., 1974:
Geology and Mineral Deposits of Alert-Cape Scott Map Area (92L), Vancouver Island, B.C., Geological Survey of Canada, Paper 74-8, 77pp.
- Roddick, J. A., 1980:
Geology of 92K Map Sheet (Bute Inlet) and Notes on the Stratified Rocks of Bute Inlet Map Area, Geological Survey of Canada, Open File 480.

- Roddick, J. A. and Hutchison, W. W., 1972:
Plutonic and Associated Rocks of the Coast Mountains of British Columbia. Int. Geol. Confr., Twenty-fourth Session, Canada, Guidebook A04-Cor, 71p.
- 1974:
Setting of the Coast Plutonic Complex, British Columbia. Pacific Geology, 8, 91-108.
- Sangster, D., 1969:
The Contact Metasomatic Magnetite Deposits in Southwestern British Columbia, Geological Survey of Canada, Bulletin 172.
- Shearer, J. T., 2001:
Summary Report on the Iron Ross Property, October 1, 2001, 18 pp.
- 2002:
Geological and Trenching Report on the Iron Ross Project, Filed for Assessment Purposes, March 30, 2002, 21 pp.
- Sheldrake, R. F., 1983:
Report on a Helicopter Magnetometer Survey, Pet 1, Pete 2 and White 1 claims, Nanaimo Mining Division, Sayward Area, Vancouver Island, British Columbia for Dickenson Mines Limited.
- Woodsworth, G. J. and Roddick, J. A., 1977:
Mineralization in the Cost Plutonic Complex of British Columbia, South of Latitude 55°N. Geological Society of Malaysia, Bulletin 9, Nov. 1977, pg 1-16.

APPENDIX I

STATEMENT of QUALIFICATIONS

January 31, 2004

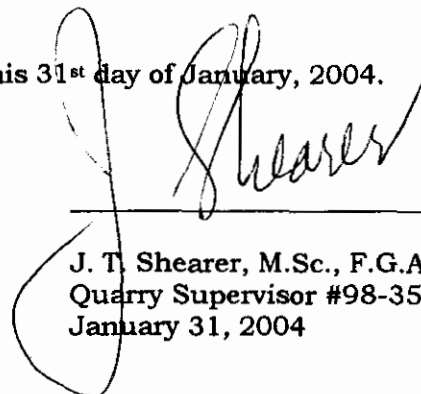
Appendix I

STATEMENT of QUALIFICATIONS

I, JOHAN T. SHEARER, of 1817 Greenmount Avenue, 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, Drilling and Magnetometer Assessment Report on the Iron Ross Project, Nanaimo Mining Division: dated January 31, 2004.
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 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 31st day of January, 2004.



J. T. Shearer, M.Sc., F.G.A.C., P.Geo.
Quarry Supervisor #98-3550
January 31, 2004

APPENDIX II

Statement of Costs 2003 & 2004

(current year only)

January 31, 2004

Appendix II

**STATEMENT of COSTS 2002 and 2003
IRON ROSS PROJECT, MX-8-216
Geological Mapping, Trenching, Bulk Sampling,
Percussion Drilling and Ground Magnetometer Survey**

Wages and Benefits

J. T. Shearer, M.Sc., P.Geo., Quarry Supervisor #98-3550		
Field Supervision, 3 days @ \$350/day, June 2003		\$ 1,050.00
Data Interpretation, Drill Chip Examination, 6.5 days @ \$300 per day, October 2003		1,950.00
Field Assisstant		
3 days @ \$200/day, June 2003		600.00
	GST	<u>252.00</u>
	Subtotal Wages	\$ 3,852.00

Transportation

Truck Rental, Fully equipped 4x4, 3 days @ \$65.50/day	196.50	
Gas	182.25	
Ferries	98.00	
Analytical (Chemex Labs)	1,933.51	
Equipment Rentals (Chainsaws, etc.)	567.12	
Mill Design & Scoping Studies (Industrial Mineral Incorp.)	3,400.00	
Line Cutting & Prospecting	13,080.57	
Grinding, Specific Gravity, Testing (International Metallurgical)	1,648.00	
Living Allowance, R.V. Park, 3 days @ \$85/day	255.00	
Road Construction (Stripping, Road Repair, Excavator), Douglas Contracting Ltd.	19,510.00	
Trenching, Bulk Sampling (Upland Contracting)	13,287.94	
Percussion Drilling (Rock Tech Industries)	19,699.70	
Crushing Bulk Sample, Upland Contracting	10,139.30	
Trucking Bulk Sample to Crusher	2,050.00	
Magnetometer & Magnetometer Survey - Rental & Labour	5,285.25	
Base Map Production, Eagle Mapping (Detail Photo Map)	11,300.00	
Miscellaneous (Road Fee)	2,000.00	
AutoCad Drafting (by Hillsborough Personnel)	593.40	
Supplies	1,858.46	
Baseline Sampling (Nova Pacific Environmental)	7,835.00	
Report Preparation	2,500.00	
Word Processing and Reproduction	<u>325.00</u>	
	Subtotal	\$ 117,745.00

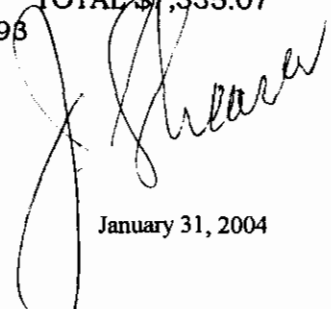
GRAND TOTAL \$ 121,597.00

Note: Subdivision of Costs Between 2 Groups

(A) Iron Joe & Iron Mike

Ground Magnetics, 1.5 Line km of Magnetics +	
Line Cutting = 12.5% of Magnetics (\$5,285.25)	= \$1,635.07
12.5% of Line Cutting & Prospecting (\$13,080.57)	= \$660.65
Physical 1.65km of Access Road 29.73% of total road work (\$19,510)	= <u>\$5,800.27</u>
	TOTAL \$7,335.07

(B) Work on Iron Ross Group \$121,597.00 - \$7,335.07 = \$114,261.93
(refer to the two filed Statement of Work)



APPENDIX III

ANALYTICAL RESULTS/ASSAY CERTIFICATES 2003 & 2004

January 31, 2004



ALS Chemex

EXCELLENCE IN ANALYTICAL CHEMISTRY

ALS Canada Ltd.

212 Brooksbank Avenue

North Vancouver BC V7J 2C1 Canada

Phone: 604 984 0221 Fax: 604 984 0218

HOMEGOLD RESOURCES LTD.

UNIT 5, 2330 TYNER ST

PORT COQUITLAM BC V3C 2Z1

Page: 1

Date: 9-FEB-2004

Account: MWE

CERTIFICATE VA04004811

Project: Iron Ross

P.O. No.:

This report is for 75 Rock samples submitted to our lab in Vancouver, BC, Canada on 2-FEB-2004.

The following have access to data associated with this certificate:

JOE SHEARER

SAMPLE PREPARATION

ALS CODE	DESCRIPTION
WEI-21	Received Sample Weight
LOG-22	Sample login - Rcd w/o BarCode
CRU-31	Fine crushing - 70% <2mm
SPL-21	Split sample - riffle splitter
PUL-31	Pulverize split to 85% <75 um

ANALYTICAL PROCEDURES

ALS CODE	DESCRIPTION	INSTRUMENT
S-IR08	Total Sulphur (Leco)	LECO
ME-XRF06	Whole Rock Package - XRF	XRF
OA-GRA06	LOI for ME-XRF06	WST-SIM
ME-ICP41	34 Element Aqua Regia ICP-AES	ICP-AES

To: HOMEGOLD RESOURCES LTD.
ATTN: JOE SHEARER
UNIT 5, 2330 TYNER ST
PORT COQUITLAM BC V3C 2Z1

This is the Final Report and supersedes any preliminary report with this certificate number. Results apply to samples as submitted. All pages of this report have been checked and approved for release.

Signature:



ALS Chemex

EXCELLENCE IN ANALYTICAL CHEMISTRY

ALS Canada Ltd.

212 Brooksbank Avenue
North Vancouver BC V7J 2C1 Canada
Phone: 604 984 0221 Fax: 604 984 0218

HOMEGOLD RESOURCES LTD.
UNIT 5, 2330 TYNER ST
PORT COQUITLAM BC V3C 2Z1

Page: 3 - A
Total # Tests: 3 (A - D)
Date: 9-FEB-2004
Account: MWE

Project: Iron Ross

CERTIFICATE OF ANALYSIS VA04004811

Sample Description	Method Analyte Units LOR	WEI-21	ME-XRF06	ME-XRF06	ME-XRF06	ME-XRF06	ME-XRF06	ME-XRF06	ME-XRF06	ME-XRF06	ME-XRF06	ME-XRF06	ME-XRF06	ME-XRF06	ME-XRF06
		Recvd Wt kg	SiO2 %	Al2O3 %	Fe2O3 %	CaO %	MgO %	Na2O %	K2O %	Cr2O3 %	TiO2 %	MnO %	P2O5 %	SrO %	BaO %
		0.02	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
IS-03-22-58-64		1.46													
IS-03-22-64-70		1.02													
IS-03-23-10-16		0.44													
IS-03-23-16-22		1.08													
IS-03-23-22-28		1.74													
IS-03-23-28-34		1.06													
IS-03-23-34-40		0.34													
IS-03-24-0-6		1.22	12.14	3.19	76.39	6.74	0.67	0.30	0.06	<0.01	0.17	0.29	0.04	0.01	-1.71
IS-03-24-10-16		2.80													
IS-03-24-16-22		2.18	32.41	10.75	32.15	18.89	2.54	0.50	0.14	0.01	0.51	0.89	0.11	0.02	0.19
IS-03-25-0-6		1.66													
IS-03-25-6-10		1.24	6.76	1.77	86.85	4.44	0.45	0.19	0.03	<0.01	0.09	0.22	0.03	<0.01	-2.32
IS-03-25-28-34		1.98	7.26	0.95	86.21	5.32	0.61	0.10	0.03	<0.01	0.06	0.22	0.02	0.01	-2.30
IH-03-27-10-16		1.00	42.70	6.70	26.52	12.73	4.72	0.17	0.10	0.03	0.68	0.35	0.10	0.01	3.81
IH-03-27-16-22		2.74													
IH-03-27-22-28		2.38													
IH-03-27-28-34		2.94													
IH-03-27-34-40		1.24													
IH-03-27-40-46		2.38													
IH-03-27-46-52		2.32													
IH-03-27-52-55		1.16													
IH-03-28-4-10		3.24													
IH-03-28-10-16		3.40	19.94	5.39	58.99	11.53	2.22	0.21	0.09	0.01	0.30	0.24	0.07	0.01	-0.10
IH-03-28-16-22		1.60													
IH-03-28-22-34		3.60													
IH-03-28-34-46		2.06													
IH-03-29-3-6		1.44	35.21	12.44	33.05	12.55	3.53	1.02	0.30	0.01	0.66	0.23	0.12	0.04	0.70
IH-03-29-6-10		1.90													
IH-03-29-10-16		2.02													
IH-03-29-16-22		1.64													
IH-03-29-22-28		3.60													
IH-03-29-28-34		2.56													
WP-03-31-4-10		2.64	11.28	2.26	79.23	5.21	1.52	0.15	0.05	<0.01	0.17	0.18	0.05	<0.01	0.02
WP-03-31-10-16		3.96	35.08	11.60	31.24	14.57	3.77	0.68	0.17	0.02	1.25	0.26	0.12	0.03	0.70



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HOMEGOLD RESOURCES LTD.
UNIT 5, 2330 TYNER ST
PORT COQUITLAM BC V3C 2Z1

Page: 2 - B
Total #. jes: 3 (A - D)
Date: 9-FEB-2004
Account: MWE

Project: Iron Ross

CERTIFICATE OF ANALYSIS VA04004811

Sample Description	Method Analyte Units LOR	ME-XRF06	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41
		Total % 0.01	Ag ppm 0.2	Al % 0.01	As ppm 2	B ppm 10	Ba ppm 10	Be ppm 0.5	Bi ppm 2	Ca % 0.01	Cd ppm 0.5	Co ppm 1	Cr ppm 1	Cu ppm 1	Fe % 0.01	Ga ppm 10
IS-03-01-1-6		98.30														
IS-03-01-6-12		99.50														
IS-03-01-25-30			0.3	0.31	742	<10	<10	<0.5	4	2.11	<0.5	160	5	16	>50	<10
IS-03-01-31-36			<0.2	0.55	256	<10	<10	<0.5	3	2.72	<0.5	49	7	198	>50	<10
IS-03-03-0-18		98.75														
IS-03-03-19-24			<0.2	3.01	151	<10	20	<0.5	<2	13.75	<0.5	28	5	302	4.11	<10
IS-03-03-25-30			<0.2	4.20	56	<10	20	<0.5	2	8.86	<0.5	21	5	85	4.46	10
IS-03-03-31-36			<0.2	2.58	56	<10	10	<0.5	2	6.98	<0.5	24	4	46	27.0	10
IS-03-03-37-48			<0.2	1.82	178	<10	10	<0.5	2	5.26	<0.5	95	7	21	32.8	<10
IS-03-03-49-00			<0.2	1.69	135	<10	<10	<0.5	<2	4.95	<0.5	72	6	23	38.7	<10
IS-03-05-0-18		99.43	<0.2	2.67	9	<10	100	<0.5	<2	9.08	<0.5	7	9	16	2.41	10
IS-03-05-19-24		99.83	<0.2	1.90	9	<10	50	<0.5	<2	20.6	<0.5	4	5	13	1.85	<10
IS-03-08-0-6			<0.2	0.10	3	<10	10	<0.5	<2	>25.0	<0.5	<1	2	7	0.16	<10
IS-03-08-07-12			<0.2	0.12	3	<10	10	<0.5	<2	>25.0	<0.5	<1	2	4	0.16	<10
IS-03-08-13-18			0.2	0.11	4	<10	10	<0.5	<2	>25.0	<0.5	<1	1	7	0.13	<10
IS-03-08-19-24			<0.2	0.14	5	<10	10	<0.5	<2	>25.0	<0.5	<1	2	5	0.16	<10
IS-03-08-25-30			<0.2	0.23	11	<10	10	<0.5	<2	>25.0	<0.5	<1	4	8	1.29	<10
IS-03-09-7-24		98.27														
IS-03-10-0-12		99.64														
IS-03-10-13-18		98.51														
IS-03-10-19-24		98.80														
IS-03-10-25-30		98.21														
IS-03-10-31-42			<0.2	1.04	53	<10	<10	<0.5	2	2.72	<0.5	1	6	41	>50	<10
IS-03-12-0-12		98.95														
IS-03-12-13-18		98.58														
IS-03-12-25-30/37-42			<0.2	2.83	150	<10	20	<0.5	<2	4.08	<0.5	38	19	36	25.6	10
IS-03-14-0-12		98.94														
IS-03-IS-0-6		98.77														
IS-03-IS-13-24		98.92														
IS-03-17-0-6		98.67														
IS-03-18-6-12			<0.2	0.84	421	<10	10	<0.5	3	2.55	<0.5	118	4	18	>50	<10
IS-03-18-12-18		98.89														
IS-03-22-1-6			<0.2	1.37	27	<10	30	<0.5	<2	1.32	0.6	12	32	32	2.05	<10
IS-03-22-6-10			<0.2	1.39	14	<10	40	<0.5	<2	1.18	0.5	8	20	25	1.62	<10
IS-03-22-10-IS			<0.2	1.88	8	<10	30	<0.5	<2	2.12	0.5	5	29	20	1.08	<10
IS-03-22-IS-20			<0.2	6.36	17	10	30	<0.5	<2	5.13	0.5	5	27	14	1.72	10
IS-03-22-20-25			<0.2	3.96	18	<10	30	<0.5	<2	3.28	<0.5	6	28	71	2.34	10
IS-03-22-25-34			<0.2	5.08	20	<10	50	<0.5	2	3.99	<0.5	15	21	89	3.08	10
IS-03-22-34-46			<0.2	4.55	13	<10	60	<0.5	<2	3.13	<0.5	14	19	98	3.26	10
IS-03-22-46-58			<0.2	4.75	12	<10	70	<0.5	<2	3.13	<0.5	17	24	89	3.01	10



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Page: 2 - C
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Project: Iron Ross

CERTIFICATE OF ANALYSIS VA04004811

Sample Description	Method	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41
	Analyte Units LOR	Hg ppm 1	K % 0.01	La ppm 10	Mg % 0.01	Mn ppm 5	Mo ppm 1	Na % 0.01	Ni ppm 1	P ppm 10	Pb ppm 2	S % 0.01	Sb ppm 2	Sc ppm 1	Sr ppm 1	Ti % 0.01
IS-03-01-1-6 IS-03-01-6-12 IS-03-01-25-30 IS-03-01-31-36 IS-03-03-0-18		<1	<0.01	<10	0.04	2120	5	0.01	53	70	26	<0.01	<2	1	5	0.01
IS-03-03-19-24 IS-03-03-25-30 IS-03-03-31-36 IS-03-03-37-48 IS-03-03-49-00		<1	<0.01	<10	0.04	2420	3	<0.01	45	90	24	0.14	<2	1	4	0.03
IS-03-05-0-18 IS-03-05-19-24 IS-03-08-0-6 IS-03-08-07-12 IS-03-08-13-18		1	0.06	<10	0.38	1180	1	0.11	4	410	4	0.83	<2	2	214	0.07
IS-03-08-19-24 IS-03-08-25-30 IS-03-09-7-24 IS-03-10-0-12 IS-03-10-13-18		2	0.06	<10	0.75	1490	1	0.11	4	930	5	0.23	<2	3	168	0.08
IS-03-10-19-24 IS-03-10-25-30 IS-03-10-31-42 IS-03-12-0-12 IS-03-12-13-18		2	0.04	<10	0.34	1250	1	0.07	9	610	11	0.11	<2	2	122	0.06
IS-03-12-25-30/37-42 IS-03-14-0-12 IS-03-IS-0-6 IS-03-IS-13-24 IS-03-17-0-6		1	0.02	<10	0.21	1470	1	0.03	28	400	17	0.06	<2	2	64	0.05
IS-03-18-6-12 IS-03-18-12-18 IS-03-22-1-6 IS-03-22-6-10 IS-03-22-10-IS		<1	0.02	<10	0.17	1480	2	0.02	29	270	15	0.07	<2	1	47	0.03
IS-03-22-IS-20 IS-03-22-20-25 IS-03-22-25-34 IS-03-22-34-46 IS-03-22-46-58		<1	0.10	<10	0.64	497	1	0.23	2	1000	3	0.06	<2	3	303	0.13
		2	0.06	<10	0.49	482	<1	0.13	3	720	3	<0.01	<2	2	372	0.09
		<1	0.01	<10	0.06	406	<1	0.01	2	30	<2	<0.01	<2	<1	450	<0.01
		1	0.01	<10	0.06	408	<1	0.01	1	40	<2	<0.01	<2	<1	390	<0.01
		<1	0.01	<10	0.06	460	<1	0.01	1	30	6	<0.01	<2	<1	355	<0.01
		<1	0.01	<10	0.06	463	<1	0.01	3	40	<2	<0.01	<2	<1	344	<0.01
		1	0.01	<10	0.07	478	<1	0.01	2	60	<2	<0.01	<2	<1	355	0.01
		1	0.01	<10	0.07	1320	3	0.01	31	100	26	0.05	<2	1	26	0.03
		1	0.04	<10	0.16	1505	2	0.22	41	430	11	0.03	<2	3	112	0.17
		<1	0.01	<10	0.10	1705	3	0.02	15	80	26	0.06	<2	1	26	0.02
		<1	0.05	10	0.25	328	1	0.12	6	970	8	0.02	<2	2	67	0.16
		<1	0.07	10	0.37	230	1	0.12	3	1000	7	0.02	<2	2	90	0.15
		1	0.06	10	0.27	238	1	0.10	3	1050	6	0.01	<2	2	51	0.13
		1	0.05	<10	0.34	391	1	0.58	8	1160	9	0.02	<2	3	353	0.21
		1	0.06	10	0.56	405	1	0.34	6	1320	13	0.07	<2	4	170	0.19
		2	0.07	<10	0.99	475	2	0.52	14	980	6	0.35	<2	7	215	0.22
		1	0.10	<10	0.89	432	1	0.55	10	980	4	0.35	<2	5	237	0.21
		1	0.12	<10	0.76	358	1	0.50	14	910	7	0.49	<2	4	249	0.21



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UNIT 5, 2330 TYNER ST

PORT COQUITLAM BC V3C 2Z1

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Total # Pages: 3 (A - D)

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Account: MWE

Project: Iron Ross

CERTIFICATE OF ANALYSIS VA04004811

Sample Description	Method Analyte Units LOR	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	S-IR08
		Tl ppm 10	U ppm 10	V ppm 1	W ppm 10	Zn ppm 2	S % 0.01
IS-03-01-1-6 IS-03-01-6-12 IS-03-01-25-30 IS-03-01-31-36 IS-03-03-0-18		10 <10	<10 <10	44 59	<10 <10	34 58	
IS-03-03-19-24 IS-03-03-25-30 IS-03-03-31-36 IS-03-03-37-48 IS-03-03-49-00		<10 <10 <10 <10 <10	<10 <10 <10 <10 <10	35 42 30 34 33	<10 <10 <10 <10 <10	32 42 33 25 25	
IS-03-05-0-18 IS-03-05-19-24 IS-03-08-0-6 IS-03-08-07-12 IS-03-08-13-18		<10 <10 <10 <10 <10	<10 <10 <10 <10 <10	60 40 1 1 <1	<10 <10 <10 <10 <10	35 37 19 23 28	
IS-03-08-19-24 IS-03-08-25-30 IS-03-09-7-24 IS-03-10-0-12 IS-03-10-13-18		<10 <10	<10 <10	1 3	<10 <10	27 24	
IS-03-10-19-24 IS-03-10-25-30 IS-03-10-31-42 IS-03-12-0-12 IS-03-12-13-18		<10	<10	50	<10	18	
IS-03-12-25-30/37-42 IS-03-14-0-12 IS-03-IS-0-6 IS-03-IS-13-24 IS-03-17-0-6		<10	<10	58	<10	31	
IS-03-18-6-12 IS-03-18-12-18 IS-03-22-1-6 IS-03-22-6-10 IS-03-22-10-IS		<10 <10 <10 <10	<10 <10 <10 <10	31 35 42 34	<10 <10 <10 <10	64 44 27 41	
IS-03-22-IS-20 IS-03-22-20-25 IS-03-22-25-34 IS-03-22-34-46 IS-03-22-46-58		<10 <10 <10 <10 <10	<10 <10 <10 <10 <10	67 77 115 86 90	<10 <10 <10 <10 <10	60 78 57 31 27	



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CERTIFICATE OF ANALYSIS VA04004811

Sample Description	Method Analyte Units LOR	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41
		Tl ppm 10	U ppm 10	V ppm 1	W ppm 10	Zn ppm 2
IS-03-22-58-64		<10	<10	74	<10	29
IS-03-22-64-70		<10	<10	30	<10	54
IS-03-23-10-16		<10	<10	86	<10	164
IS-03-23-16-22		<10	<10	102	<10	88
IS-03-23-22-28		<10	<10	116	<10	62
IS-03-23-28-34		<10	<10	99	<10	58
IS-03-23-34-40		<10	<10	120	<10	70
IS-03-24-0-6						
IS-03-24-10-16		<10	<10	24	<10	26
IS-03-24-16-22						
IS-03-25-0-6		<10	<10	49	<10	45
IS-03-25-6-10						
IS-03-25-28-34						
IH-03-27-10-16						
IH-03-27-16-22		<10	<10	124	<10	91
IH-03-27-22-28		<10	<10	112	<10	85
IH-03-27-28-34		<10	<10	103	<10	46
IH-03-27-34-40		<10	<10	68	<10	27
IH-03-27-40-46		<10	<10	70	<10	29
IH-03-27-46-52		<10	<10	66	<10	21
IH-03-27-52-55		<10	<10	67	<10	35
IH-03-28-4-10		<10	<10	54	<10	26
IH-03-28-10-16						
IH-03-28-16-22		<10	<10	78	<10	26
IH-03-28-22-34		<10	<10	114	<10	28
IH-03-28-34-46		<10	<10	112	<10	31
IH-03-29-3-6						
IH-03-29-6-10		<10	<10	110	<10	33
IH-03-29-10-16		<10	<10	52	<10	23
IH-03-29-16-22		<10	<10	23	<10	21
IH-03-29-22-28		<10	<10	20	<10	17
IH-03-29-28-34		<10	<10	95	<10	17
WIP-03-31-4-10						
WIP-03-31-10-16						



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UNIT #5, 2330 TYNER ST.
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 Certificate Date: 08-MAR-2002
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 P.O. Number :
 Account : MWE

Project :
 Comments: ATTN: JOE SHEARER

CERTIFICATE OF ANALYSIS

A0212447

SAMPLE	PREP CODE	Weight Kg	Al2O3 %	BaO %	CaO %	Cr2O3 %	Fe2O3 %	K2O %	MgO %	MnO %	Na2O %	P2O5 %	SiO2 %	SrO %	TiO2 %
525N+50E	244 200	2.58	0.46	< 0.01	0.47	< 0.01	98.00	0.85	0.16	0.16	0.29	0.03	2.95	< 0.01	< 0.01
500N+15W	244 200	1.96	0.42	< 0.01	54.02	< 0.01	0.82	0.47	0.14	0.04	0.16	0.05	1.68	0.11	0.01
535N+80F	244 200	2.56	0.80	< 0.01	3.41	< 0.01	84.00	0.79	0.25	0.21	0.30	0.07	5.49	< 0.01	< 0.01
535N+40E	244 200	3.56	0.74	< 0.01	1.82	< 0.01	91.00	0.70	0.18	0.18	0.26	0.11	3.68	< 0.01	< 0.01
535N on Rd	244 200	2.42	0.40	< 0.01	53.30	< 0.01	0.64	0.38	0.17	0.08	0.15	0.06	3.15	0.04	0.02
500N+10E	244 200	1.42	0.29	< 0.01	54.92	< 0.01	0.45	0.39	0.15	0.06	0.17	0.10	3.10	0.07	0.01
535N+20W	244 200	1.86	12.61	0.01	28.33	< 0.01	5.92	0.51	3.08	0.21	0.60	0.15	34.62	0.06	0.71

NOTE: ** UNITS = KILOGRAMS CaCO3 EQUIVALENT PER METRIC TONNE (Kg/MT)

CERTIFICATION: _____



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To: HOMEGOLD RESOURCES LTD.
UNIT #5, 2330 TYNER ST.
PORT COQUITLAM BC V3C 2Z1

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Account: MWE

Project : Iron Ross

CERTIFICATE OF ANALYSIS VA02007605

Method Analyte Units LOI	WEI-21	ME-XRF06	ME-XRF06	ME-XRF06	ME-XRF06	ME-XRF06	ME-XRF06	ME-XRF06	ME-XRF06	ME-XRF06	ME-XRF06	ME-XRF06	ME-XRF06	ME-XRF06	ME-XRF06
	Record Wt kg	SiO2 %	Al2O3 %	Fe2O3 %	CaO %	MgO %	MnO %	K2O %	TiO2 %	TiO2 %	NaO %	P2O5 %	SO %	SO %	LOI %
02-02 10'-20' Magnetite	2.22	10.64	2.31	79.52	5.92	1.37	0.11	0.05	0.02	0.12	0.40	0.04	<0.01	<0.01	-1.25
02-03 0'-10' Magnetite	5.74	7.20	2.07	86.06	4.78	0.60	0.08	0.05	0.02	0.10	0.35	0.03	<0.01	0.01	-1.74
02-03 10'-20' Magnetite	5.44	10.80	1.87	79.96	7.69	1.34	0.21	0.06	0.01	0.09	0.31	0.03	<0.01	0.01	-2.58
02-04 20'-30' Limestone	2.54	4.52	2.57	1.37	50.03	0.14	0.02	0.28	<0.01	0.04	0.05	0.05	0.05	<0.01	40.70
02-05 40'-50' Limestone	1.48	4.40	2.35	1.00	51.20	0.14	0.02	0.22	<0.01	0.04	0.06	0.03	0.05	<0.01	40.40
02-12 30'-40' Limestone	1.70	14.10	6.52	10.87	40.42	0.91	0.46	0.37	0.01	0.67	0.11	0.13	0.04	0.02	23.50
02-13 60'-70' Magnetite part	1.08	26.11	11.90	34.90	10.16	3.08	1.25	0.54	<0.01	0.52	0.21	0.11	0.04	0.02	7.92
02-14 20'-30' Limestone	1.20	5.45	1.27	1.46	50.95	0.18	0.05	0.08	0.01	0.04	0.07	0.06	0.05	<0.01	40.20
02-18 30'-40' Limestone	1.74	6.58	1.83	2.49	49.13	0.70	0.06	0.10	0.01	0.08	0.10	0.05	0.05	<0.01	38.60
02-14 50'-60' Magnetite	2.36	10.89	2.85	70.11	12.55	0.38	0.09	0.03	0.02	0.34	0.49	0.06	0.02	0.01	1.45
02-14 60'-70' Magnetite	3.24	20.31	6.41	53.95	13.66	1.91	0.43	0.08	0.01	0.37	0.50	0.08	0.02	<0.01	2.21
02-15 70'-80' Magnetite	4.70	26.25	7.88	42.43	20.12	1.02	0.41	0.07	0.02	0.73	0.86	0.14	0.02	<0.01	0.15
02-16 40'-50' Magnetite	2.42	21.75	7.05	54.88	11.35	1.07	1.10	0.09	0.01	0.31	0.29	0.11	0.05	0.01	1.20
02-16 70'-80' Magnetite	5.08	12.08	6.13	63.58	13.82	1.11	0.24	0.39	0.01	0.26	0.32	0.08	0.02	0.03	3.35
02-16 0'-10' Limestone	0.92	6.85	1.83	1.96	49.64	0.18	0.07	0.20	<0.01	0.05	0.08	0.14	0.05	<0.01	38.60
02-16 20'-30' Limestone	2.16	3.83	0.80	1.09	51.81	0.12	<0.01	0.05	<0.01	0.02	0.05	0.04	0.06	<0.01	41.90
02-17 20'-30' Limestone	0.84	27.54	8.79	31.20	19.53	1.41	0.82	0.99	0.01	0.22	0.49	0.11	0.02	0.06	7.31



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 Phone: 604 984 0221 Fax: 604 984 0218

To: HEMEGOLD RESOURCES LTD.
 UNIT #5, 2330 TYNER ST.
 PORT COQUITLAM BC V3C 2Z1

Page #: 2 - B
 Total # of pages : 2 (A - C)
 Date : 10-Jan-2003
 Account M#:

Project : Iron Ross

CERTIFICATE OF ANALYSIS VA02007604

Sample Description	Method	MS-ICP41	MS-ICP41	MS-ICP41	MS-ICP41	MS-ICP41	MS-ICP41	MS-ICP41	MS-ICP41	MS-ICP41	MS-ICP41	MS-ICP41	MS-ICP41	MS-ICP41	MS-ICP41	MS-ICP41
	Analyte Units LOE	Fe %	Ga ppm	Hg ppm	K %	La ppm	Mg %	Mn ppm	Mo ppm	Ni %	NI ppm	P ppm	Sb ppm	S %	Sb ppm	Se ppm
02-04 50'-60' Skarn		1.34	10	<1	0.03	<10	0.16	349	2	0.06	8	800	15	0.68	3	1
02-06 0'-10' intrusive dyke		2.52	10	<1	0.06	<10	0.48	314	<1	0.22	9	1260	6	0.38	5	4
02-07 30'-40' Intrusive skarn		-----														
02-08 10'-20' garnet skarn		4.86	10	<1	0.03	<10	0.14	566	2	0.09	9	240	2	0.14	<2	<1
02-10 10'-20' garnet/green		1.38	10	<1	0.02	<10	0.21	614	<1	0.18	4	1630	<2	0.02	<2	2
02-12 00'-90' green skarn		0.07	10	1	0.07	<10	0.32	184	2	0.42	11	860	5	0.04	2	2
02-12 90'-100' garnet/green sk		2.70	20	<1	0.37	<10	1.10	311	<1	0.35	17	800	<2	0.07	<2	4
02-13 0'-10' skarn/Lst.		0.59	<10	<1	0.02	<10	0.12	347	1	0.20	2	640	17	0.09	<2	1
02-13 30'-40' garnet/garnet sk		7.12 mag	10	<1	0.04	<10	0.37	1210	2	0.22	5	770	2	0.47	<2	3
02-13 40'-50' skarn/minor mag		4.20	10	<1	0.06	<10	0.54	946	1	0.30	11	750	<2	0.12	2	6
02-14 80'-90' skarn green		11.35	10	<1	0.06	<10	0.22	728	1	0.28	8	650	<2	0.06	<2	1
02-14 90'-100' skarn green		3.65	10	<1	0.03	<10	0.19	914	3	0.39	6	840	4	0.10	<2	2
02-15 60'-70' garnet/green mag		>15.0	10	<1	0.02	<10	0.16	1165	2	0.16	19	570	<2	0.25	<2	2
02-15 80'-90' green skarn		2.20	10	<1	0.22	<10	0.29	363	<1	0.52	12	1110	<2	0.05	2	3
02-16 50'-60' gn skarn/Lst		3.65	20	<1	0.17	<10	0.46	349	1	0.61	5	1150	2	0.21	<2	3
02-16 90'-100' gn skarn		3.74	20	<1	0.07	<10	1.71	795	1	0.44	17	660	4	0.10	<2	10
02-17 0'-10' magnetite		>15.0	20	<1	0.01	<10	0.18	1090	5	0.02	15	170	17	0.98	<2	<1



CERTIFICATE OF ANALYSIS
iPL v1J1161



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[116115:51:31:10101801]

Process Research Associates Ltd

Project : 0100101 M Ron
Shipper : Frank
Shipment: PO#: 2364
Analysis:
ICP(AqR-Metal)30
S(T) by LECO
Comment:

1 Samples

Out: Oct 17, 2001 In: Oct 16, 2001

CODE	AMOUNT	TYPE	PREPARATION DESCRIPTION	PULP	REJECT
B31108	1	CoarsePu	Coarse Pulp-- Sample pulv. & prep.	12M/Dis	00M/Dis

Analytical Summary

#	Code	Method	Units	Description	Element	Limit	
						Low	High
01	0135	Leco	%	S(tot) Assay by LECO in %	Sulfur (LECO)	0.01	100.00
02	0701	ICP	ppm	Al ICP (Incomplete Digestion)	Aluminum	100.	50000.
03	0702	ICP	ppm	Sb ICP	Antimony	5.	1000.
04	0703	ICP	ppm	As ICP	Arsenic	5.	10000.
05	0704	ICP	ppm	Ba ICP (Incomplete Digestion)	Barium	2.	10000.
06	0705	ICP	ppm	Bi ICP	Bismuth	2.	10000.
07	0707	ICP	ppm	Cd ICP	Cadmium	0.1	100.00
08	0708	ICP	ppm	Ca ICP (Incomplete Digestion)	Calcium	100.	100000.
09	0709	ICP	ppm	Cr ICP (Incomplete Digestion)	Chromium	1.	10000.
10	0710	ICP	ppm	Co ICP	Cobalt	1.	10000.
11	0711	ICP	ppm	Cu ICP	Copper	1.	20000.
12	0712	ICP	ppm	Fe ICP	Iron	100.	50000.
13	0713	ICP	ppm	La ICP (Incomplete Digestion)	Lanthanum	2.	10000.
14	0714	ICP	ppm	Pb ICP	Lead	2.	20000.
15	0715	ICP	ppm	Mg ICP (Incomplete Digestion)	Magnesium	100.	100000.
16	0716	ICP	ppm	Mn ICP	Manganese	1.	10000.
17	0732	ICP	ppm	Hg ICP	Mercury	3.	10000.
18	0717	ICP	ppm	Mo ICP	Molybdenum	1.	1000.
19	0718	ICP	ppm	Ni ICP	Nickel	1.	10000.
20	0719	ICP	ppm	P ICP	Phosphorus	100.	50000.
21	0720	ICP	ppm	K ICP (Incomplete Digestion)	Potassium	100.	100000.
22	0736	ICP	ppm	Sc ICP	Scandium	1.	10000.
23	0721	ICP	ppm	Ag ICP	Silver	0.1	100.00
24	0722	ICP	ppm	Na ICP (Incomplete Digestion)	Sodium	100.	50000.
25	0723	ICP	ppm	Sr ICP (Incomplete Digestion)	Strontium	1.	10000.
26	0747	ICP	ppm	Tl ICP (Incomplete Digestion)	Thallium	10.	1000.
27	0726	ICP	ppm	Ti ICP (Incomplete Digestion)	Titanium	100.	10000.
28	0727	ICP	ppm	W ICP (Incomplete Digestion)	Tungsten	5.	1000.
29	0729	ICP	ppm	V ICP	Vanadium	2.	10000.
30	0730	ICP	ppm	Zn ICP	Zinc	1.	20000.
31	0731	ICP	ppm	Zr ICP	Zirconium	1.	10000.

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* Our liability is limited solely to the analytical cost of these analyses.

BC Certified Assayer: David Chiu

IPL 15:53 10/11/01



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Process Research Associates Ltd

Project: 0100101 M Ron

Out: Oct 17, 2001
In : Oct 16, 2001

Page 1 of 1
[116115:51:31:10101801]

1 Samples

1=CoarsePulp

Symbol	Unit	CoarsePulp Sayward Hd	Limit Low	Limit High
S(tot)	%	0.22	0.01	100.00
Al	ppm	2665.	100.	50000.
Sb	ppm	<5.	5.	1000.
As	ppm	<5.	5.	10000.
Ba	ppm	102.	2.	10000.
Bi	ppm	<2.	2.	10000.
Cd	ppm	<0.1	0.1	100.0
Ca	ppm	6562.	100.	100000.
Cr	ppm	13.	1.	10000.
Co	ppm	128.	1.	10000.
Cu	ppm	216.	1.	20000.
Fe	ppm	644.	100.	50000.
La	ppm	<2.	2.	10000.
Pb	ppm	32.	2.	20000.
Mg	ppm	642.	100.	100000.
Mn	ppm	957.	1.	10000.
Hg	ppm	<3.	3.	10000.
Mo	ppm	8.	1.	1000.
Ni	ppm	<1.	1.	10000.
P	ppm	209.	100.	50000.
K	ppm	198.	100.	100000.
Sc	ppm	<1.	1.	10000.
Ag	ppm	<0.1	0.1	100.0
Na	ppm	174.	100.	50000.
Sr	ppm	5.	1.	10000.
Tl	ppm	<10.	10.	1000.
Ti	ppm	<100.	100.	10000.
W	ppm	<5.	5.	1000.
V	ppm	53.	2.	10000.
Zn	ppm	90.	1.	20000.
Zr	ppm	18.	1.	10000.

—No Test Ins=Insufficient Sample Del=Delay Max=No Estimate Rec=ReCheck m=x1000 %=Estimate % NS=No Sample

BC Certified Assayer: David Chiu



INTERNATIONAL PLASMA LABORATORY LTD.

CERTIFICATE OF ANALYSIS

iPL 01J1162



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Client : Process Research Associates Ltd
Project: Q100101 M Ron

1 Samples
L=PuIp

[116215:42:42:10101701]

Out: Oct 17, 2001
In : Oct 16, 2001

Page 1 of 1
Section 1 of 1

Sample Name	Type	Al2O3 %	BaO %	CaO %	Fe2O3 %	K2O %	MgO %	MnO %	Na2O %	P2O5 %	SiO2 %	TiO2 %	LOI %	Total %
Sayward Hd	PuIp	0.87	<0.01	1.49	91.24	<0.01	0.24	0.19	0.20	0.01	3.93	0.02	1.52	99.71

Minimum Detection	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
Maximum Detection	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	105.00
Method	WRock	WRock	WRock	WRock	WRock	WRock	WRock	WRock	WRock	WRock	WRock	WRock	WRock	WRock

—No Test Ins=Insufficient Sample Del=Delay Max=No Estimate Rec=ReCheck m=x1000 %=Estimate % NS=No Sample

10/17/01 15:43 iPL

HOMEGOLD RES.

64 SAMPLES REC'D ON JAN 22 (VA04002884) + 23 SAMPLES REC'D ON JAN 30

1	15-03-01-1-6'	Whole Rock		
2	15-03-01-6-12'	Whole Rock		
3	15-03-01-25-30'	ICP		
4	15-03-01-31-36'	ICP		
5	15-03-03-0-18'	ICP & Whole Rock		
6	15-03-03-19-24'	ICP		
7	15-03-03-25-30'	ICP		
8	15-03-03-31-36'	ICP		
9	15-03-03-37-48'	ICP		
10	15-03-03-49-00'	ICP		
11	15-03-05-0-18'	ICP & Whole Rock		
12	15-03-05-19-24'	ICP & Whole Rock		
13	15-03-08-0-6'	ICP		
14	15-03-08-07-12'	ICP		
15	15-03-08-13-18'	ICP		
16	15-03-08-19-24'	ICP		
17	15-03-08-25-30'	ICP		
18	15-03-09-7-12'	Combine with 19 & 20, Whole Rock		
19	15-03-09-13-18'	Combine with 18 & 20, Whole Rock		
20	15-03-09-19-24'	Combine with 18 & 19, Whole Rock		
21	15-03-10-0-6'	Combine with 22, Whole Rock		
22	15-03-10-7-12'	Combine with 21, Whole Rock		
23	15-03-10-13-18'	Whole Rock		
24	15-03-10-19-24'	Whole Rock		
25	15-03-10-25-30'	Whole Rock		
26	15-03-10-31-36'	Combine with 27, ICP		
27	15-03-10-37-42'	Combine with 26, ICP		
28	15-03-12-0-6'	Combine with 29, Whole Rock		
29	15-03-12-07-12'	Combine with 28, Whole Rock		
30	15-03-12-13-18'	Whole Rock		
31	15-03-12-25-30'	Combine with 32, ICP		
32	15-03-12-37-42'	Combine with 31, ICP		
33	15-03-14-0-6'	Combine with 34, Whole Rock		
34	15-03-14-7-12'	Combine with 33, Whole Rock		
35	15-03-15-0-6'	Whole Rock		
36	15-03-15-13-18'	Combine with 37, Whole Rock		
37	15-03-15-19-24'	Combine with 36, Whole Rock		
38	15-03-17-0-6'	Whole Rock		
39	15-03-18-6-12'	ICP		
40	15-03-18-12-18'	Whole Rock		
41	15-03-22-1-6'	ICP		
42	15-03-22-6-10'	ICP		
43	15-03-22-10-15'	ICP		
44	15-03-22-15-20'	ICP		
45	15-03-22-20-25'	ICP		
46	15-03-22-25-34'	ICP		
47	15-03-22-34-40'	Combine with 48, ICP		
48	15-03-22-40-46'	Combine with 47, ICP		
49	15-03-22-46-52'	Combine with 50, ICP		
50	15-03-22-52-58'	Combine with 49, ICP		
51	15-03-22-58-64'	ICP		

HOMEGOLD RES.

64 SAMPLES REC'D ON JAN 22 (VA04002884) + 23 SAMPLES REC'D ON JAN 30

52	15-03-22-64-70'	ICP			
53	15-03-23-10-16'	ICP			
54	15-03-23-16-22'	ICP			
55	15-03-23-22-28'	ICP			
56	15-03-23-28-34'	ICP			
57	15-03-23-34-40'	ICP			
58	15-03-24-0-6'	Whole Rock			
59	15-03-24-10-16'	ICP			
60	15-03-24-16-22'	Whole Rock			
61	15-03-25-0-6'	ICP			
62	15-03-25-6-10'	Whole Rock			
63	15-03-25-28-34'	Whole Rock			
64	15-03-27-10-16'	Whole Rock			
65	15-03-27-16-22'	ICP			
66	15-03-27-22-28'	ICP			
67	15-03-27-28-34'	ICP			
68	15-03-27-34-40'	ICP			
69	15-03-27-40-46'	ICP			
70	15-03-27-46-52'	ICP			
71	15-03-27-52-55'	ICP			
72	15-03-28-4-10'	ICP			
73	15-03-28-10-16'	Whole Rock			
74	15-03-28-16-22'	ICP			
75	15-03-28-22-28'	Combine with 76, ICP			
76	15-03-28-28-34'	Combine with 75, ICP			
77	15-03-28-34-40'	Combine with 78, ICP			
78	15-03-28-40-46'	Combine with 77, ICP			
79	15-03-29-3-6'	Whole Rock			
80	15-03-29-6-10'	ICP			
81	15-03-29-10-16'	ICP			
82	15-03-29-16-22'	ICP			
83	15-03-29-22-28'	ICP			
84	15-03-29-28-34'	ICP			
85	15-03-31-4-10'	Whole Rock			
86	15-03-31-10-16'	Whole Rock			
87	J MAIN	Whole Rock plus Sulfur			



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UNIT #5, 2330 TYNER ST.

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Page #: 1

Date: 10-Jan-2003

Account: MWE

CERTIFICATE VA02007604

Project : Iron Ross

P.O. No:

This report is for 17 ROCK samples submitted to our lab in North Vancouver, BC, Canada on 20-Dec-2002.

The following have access to data associated with this certificate:

JOE SHEARER

SAMPLE PREPARATION

ALS CODE	DESCRIPTION
WEI-21	Received Sample Weight
LOG-22	Sample login - Rcd w/o BarCode
CRU-31	Fine crushing - 70% <2mm
SPL-21	Split sample - riffle splitter
PUL-31	Pulverize split to 85% <75 um

ANALYTICAL PROCEDURES

ALS CODE	DESCRIPTION	INSTRUMENT
ME-GRA21	Au Ag 30g FA-GRAV finish	WST-SIM
ME-ICP41	34 Element Aqua Regia ICP-AES	ICP-AES

To: HOMEGOLD RESOURCES LTD.
ATTN: JOE SHEARER
UNIT #5, 2330 TYNER ST.
PORT COQUITLAM BC V3C 2Z1

This is the Final Report and supersedes any preliminary report with this certificate number. Results apply to samples as submitted. All pages of this report have been checked and approved for release.

Signature:



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Project: Iron Ross

CERTIFICATE OF ANALYSIS	VA02007604
-------------------------	------------

Method Analyte Units LOR	WEI-21 Recvd Wt kg	ME-GRA21 Au ppm	ME-GRA21 Ag ppm	ME-ICP41 Ag ppm	ME-ICP41 Al %	ME-ICP41 As ppm	ME-ICP41 B ppm	ME-ICP41 Ba ppm	ME-ICP41 Be ppm	ME-ICP41 Bi ppm	ME-ICP41 Ca %	ME-ICP41 Cd ppm	ME-ICP41 Co ppm	ME-ICP41 Cr ppm	ME-ICP41 Cu ppm
Sample Description	0.02	0.05	5	0.2	0.01	2	10	10	0.5	2	0.01	0.5	1	1	1
02-04 50'-60'	5.48	0.07	<5	<0.2	1.18	30	<10	30	<0.5	<2	>15.0	1.3	7	8	28
02-06 0'-10'	1.32	0.16	<5	<0.2	1.95	29	<10	30	<0.5	<2	2.29	<0.5	15	16	69
02-07 30'-40'	Not Recvd														
02-08 10'-20'	0.44	<0.05	<5	<0.2	1.63	252	<10	20	<0.5	5	>15.0	1.1	31	7	29
02-10 10'-20'	5.18	0.06	<5	<0.2	2.34	40	<10	10	<0.5	3	2.94	0.7	3	18	11
02-12 80'-90'	3.80	0.22	<5	<0.2	2.99	241	<10	30	<0.5	3	3.39	<0.5	6	15	38
02-12 90'-100'	4.96	0.07	<5	<0.2	3.34	68	<10	150	<0.5	4	3.06	0.5	9	15	31
02-13 0'-10'	1.38	0.10	<5	<0.2	0.88	28	<10	10	<0.5	6	>15.0	1.2	4	6	7
02-13 30'-40'	4.62	0.39	<5	<0.2	3.67	734	10	60	<0.5	2	7.48	1.4	39	15	44
02-13 40'-50'	4.42	0.16	<5	<0.2	4.22	529	10	50	<0.5	4	5.74	0.5	50	16	52
02-14 80'-90'	5.78	0.20	<5	<0.2	3.19	178	<10	60	<0.5	3	3.48	2.1	20	15	20
02-14 90'-100'	5.12	0.10	<5	<0.2	2.99	909	<10	60	<0.5	2	4.01	0.6	46	13	55
02-15 60'-70'	4.38	0.14	<5	<0.2	2.46	713	<10	10	<0.5	3	3.49	4.0	104	57	101
02-15 80'-90'	3.54	0.07	<5	<0.2	4.38	112	<10	60	<0.5	3	3.87	0.5	17	39	44
02-16 50'-60'	2.04	0.16	<5	<0.2	6.48	1125	10	90	<0.5	5	4.95	0.7	56	23	59
02-16 90'-100'	4.84	0.19	<5	0.2	6.82	98	<10	140	<0.5	<2	6.60	1.6	19	18	132
02-17 0'-10'	0.80	0.50	<5	<0.2	0.69	584	<10	10	<0.5	21	2.28	15.6	309	14	255



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Page #: 2 - B
 Total # of pages: 2 (A - C)
 Date : 10-Jan-2003
 Account: MWE

Project : Iron Ross

CERTIFICATE OF ANALYSIS VA02007604

Sample Description	Method Analyte Units LOR	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41
		Fe % 0.01	Ga ppm 10	Hg ppm 1	K % 0.01	La ppm 10	Mg % 0.01	Mn ppm 5	Mo ppm 1	Na % 0.01	Ni ppm 1	P ppm 10	Pb ppm 2	S % 0.01	Sb ppm 2	Sc ppm 1
02-04 50'-60'		1.34	10	<1	0.03	<10	0.16	349	2	0.06	8	800	15	0.68	3	1
02-06 0'-10'		2.52	10	<1	0.06	<10	0.48	314	<1	0.22	9	1260	6	0.38	5	4
02-07 30'-40'																
02-08 10'-20'		4.66	10	<1	0.03	<10	0.14	566	2	0.09	9	240	2	0.14	<2	<1
02-10 10'-20'		1.38	10	<1	0.02	<10	0.21	614	<1	0.18	4	1630	<2	0.02	<2	2
02-12 80'-90'		0.87	10	1	0.07	<10	0.32	184	2	0.42	11	860	5	0.04	2	2
02-12 90'-100'		2.70	20	<1	0.37	<10	1.10	311	<1	0.35	17	800	<2	0.07	<2	4
02-13 0'-10'		0.59	<10	<1	0.02	<10	0.12	347	1	0.20	2	640	17	0.09	<2	1
02-13 30'-40'		7.12	10	<1	0.04	<10	0.37	1210	2	0.22	5	770	2	0.47	<2	3
02-13 40'-50'		4.26	10	<1	0.06	<10	0.54	946	1	0.30	11	750	<2	0.12	2	6
02-14 80'-90'		11.35	10	<1	0.06	<10	0.22	726	1	0.28	8	650	<2	0.06	<2	1
02-14 90'-100'		3.65	10	<1	0.03	<10	0.19	914	3	0.39	6	840	4	0.10	<2	2
02-15 60'-70'		>15.0	10	<1	0.02	<10	0.16	1165	2	0.16	19	570	<2	0.25	<2	2
02-15 80'-90'		2.20	10	<1	0.22	<10	0.29	363	<1	0.52	12	1110	<2	0.05	2	3
02-16 50'-60'		3.65	20	<1	0.17	<10	0.46	349	1	0.61	5	1150	2	0.21	<2	3
02-16 90'-100'		3.74	20	<1	0.07	<10	1.71	795	1	0.44	17	660	4	0.10	<2	10
02-17 0'-10'		>15.0	20	<1	0.01	<10	0.18	1090	5	0.02	15	170	17	0.98	<2	<1



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Page #: 2 - C

Total # of pages: 2 (A - C)

Date: 10-Jan-2003

Account: MWE

Project: Iron Ross

CERTIFICATE OF ANALYSIS

VA02007604

Sample Description	Method Analyte Units LOR	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41
		Sr ppm 1	Ti % 0.01	Ti ppm 10	U ppm 10	V ppm 1	W ppm 10	Zn ppm 2
02-04 50'-60'		323	0.04	<10	<10	18	<10	75
02-06 0'-10'		83	0.10	<10	<10	63	<10	53
02-07 30'-40'								
02-08 10'-20'		295	0.03	<10	<10	18	<10	37
02-10 10'-20'		114	0.06	<10	<10	28	<10	30
02-12 80'-90'		172	0.10	<10	<10	27	<10	49
02-12 90'-100'		323	0.22	<10	<10	71	<10	53
02-13 0'-10'		324	0.03	<10	10	8	<10	81
02-13 30'-40'		207	0.06	<10	10	36	<10	46
02-13 40'-50'		197	0.08	<10	10	71	<10	50
02-14 80'-90'		202	0.07	<10	10	31	10	51
02-14 90'-100'		180	0.07	<10	10	21	<10	40
02-15 60'-70'		118	0.09	<10	10	57	10	202
02-15 80'-90'		197	0.11	<10	10	38	<10	39
02-16 50'-60'		207	0.09	<10	10	43	<10	44
02-16 90'-100'		269	0.13	<10	10	135	<10	132
02-17 0'-10'		14	0.02	<10	30	18	10	80

APPENDIX IV

DRILL LOGS, 2002

January 31, 2004

IRON ROSS MAGNETITE DRILL RECORD

Date: October 25, 2002

Project: Iron Ross; Location: Sayward Area

Drill: Rockpro Airtrac

Chip Samples Taken Every 10 Feet, Logged by J.T. Shearer, M.Sc., P. Geo.

HOLE #1, Location: Trench #1, South End Near Access Road

Visual Log

0-10	Limestone, White dust & chips
10-20	Limestone, White dust & chips
20-30	Limestone, White dust & chips
30-40	Limestone, Darker dust & chips, Minor skarn
40-50	45 Contact, Limestone
45-50	Wet Yellow Mud, Only material coming to surface,

End Of Hole at 50' (no return)

IRON ROSS MAGNETITE DRILL RECORD

Date: October 25, 2002

Project: Iron Ross; Location: Sayward Area

Drill: Rockpro Airtrac

Chip Samples Taken Every 10 Feet, Logged by J.T. Shearer, M.Sc., P. Geo.

HOLE #2, Location: On Magnetite Outcrop -68° Dust & Chips

Visual Log

0-10	0-2' Magnetite (black) 2-6' White Limestone 6-10' Magnetite (black)
10- 20	10-18' Magnetite black 18-19' white limestone 19-20' Magnetite (black)
20-30	20-23' "Lighter black" disseminated magnetite 23-26' White 26-28' Darker lighter black 4" of white 28-30' Magnetite (black)

End Of Hole 30 feet

IRON ROSS MAGNETITE DRILL RECORD

Date: October 25, 2002

Project: Iron Ross; Location: Sayward Area

Drill: Rockpro Airtrac

Chip Samples Taken Every 10 Feet, Logged by J.T. Shearer, M.Sc.,P.Geo.

HOLE #3, Location: South End of Second Trench in Magnetite

Visual Log

0-10	Magnetite, Mostly very black
10-20	10-12' Magnetite (black) 12-14' Lighter black (disseminated Magnetite) 14-20' Magnetite Black mostly
20-30	20-24' Magnetite (black) 24-30' Limestone, Dark grey - light grey

End Of Hole 30 feet

IRON ROSS MAGNETITE DRILL RECORD

Date: October 26, 2002

Project: Iron Ross; Location: Sayward Area

Drill: Rockpro Airtrac

Chip Samples Taken Every 10 Feet, Logged by J.T. Shearer, M.Sc.,P.Geo.

HOLE #4, Location: On New Upper Road

Visual Log

0-10	Limestone (White dust)
10-20	Limestone (White dust)
20-30	Limestone (White dust)
30-40	Limestone (White dust)
40-50	Greenish chips starting at 46'-48' (Green Skarn)
50-60	58'-60' Very soft, green skarn Brown garnet Green skarn
60-70	Early 60's brown & wet, take sample at 60'-62' 62' -Yellowish brown mud 64'-67' Very soft 67' Mud
70-80	Yellow mud, No Return
	End Of Hole 80 feet (wet at bottom)

IRON ROSS MAGNETITE DRILL RECORD

Date: October 26, 2002

Project: Iron Ross; Location: Sayward Area

Drill: Rockpro Airtrac

Chip Samples Taken Every 10 Feet, Logged by J.T. Shearer, M.Sc.,P.Geo.

HOLE #5, Location: -58° Angle Hole Toward 182° at Same Location as 4

Visual Log

0-20	Limestone, white dust
20-40	Limestone, white dust
40-50	Limestone, white dust
40-50	Limestone, white dust
50-60	Limestone, white dust
60-70	Limestone, white dust
70-80	Limestone, white dust

End Of Hole 80 feet

IRON ROSS MAGNETITE DRILL RECORD

Date: October 27, 2002

Project: Iron Ross; Location: Sayward Area

Drill: Rockpro Airtrac

Chip Samples Taken Every 10 Feet, Logged by J.T. Shearer, M.Sc.,P.Geo.

HOLE #6 Location: Halfway Down Access Road at Bend

Visual Log

0-10 Intrusive, Greenish dust

10-20 Intrusive, Greenish dust
Hit Cave at 17' No return

No Return
Bit in mud/clay

Start New Hole 2m East of 6

End Of Hole 20 feet
(mud seam)

IRON ROSS MAGNETITE DRILL RECORD

Date: October 27, 2002

Project: Iron Ross; Location: Sayward Area

Drill: Rockpro Airtrac

Chip Samples Taken Every 10 Feet, Logged by J.T. Shearer, M.Sc.,P.Geo.

HOLE #6a, Location: 2m East of 6

Visual Log

0-10 Limestone & Garnet, Intrusive

10-20 Hit mud seam

20-30

End Of Hole 30 feet
(mud seam)

IRON ROSS MAGNETITE DRILL RECORD

Date: October , 2002

Project: Iron Ross; Location: Sayward Area

Drill: Rockpro Airtrac

Chip Samples Taken Every 10 Feet, Logged by J.T. Shearer, M.Sc.,P.Geo.

HOLE #6b, Location:

Visual Log

Hit mud seam 20 feet

IRON ROSS MAGNETITE DRILL RECORD

Date: October 27, 2002

Project: Iron Ross; Location: Sayward Area

Drill: Rockpro Airtrac

Chip Samples Taken Every 10 Feet, Logged by J.T. Shearer, M.Sc., P.Geo.

HOLE #7, Location: On Main Road Near Trench #2

Visual Log

0-10	Dark skarn, Intrusive
10-20	Dark Intrusive, Skarn
20-30	Dark Intrusive, Skarn
30-40	Dark Intrusive, Skarn
40-50	Dark Intrusive, Skarn
50-60	At 53' Magnetite rubble, black dust 53-55: 1½' - 2' Magnetite Garnet
60-70	Limestone Cavity 67'-70'
	End Of Hole 70 feet (cavity)

IRON ROSS MAGNETITE DRILL RECORD

Date: October 26-27, 2002

Project: Iron Ross; Location: Sayward Area

Drill: Rockpro Airtrac

Chip Samples Taken Every 10 Feet, Logged by J.T. Shearer, M.Sc., P. Geo.

HOLE #8, Location: Trench 2 Near Magnetite Outcrop

Visual Log

0-10	0-8' Broken rock at top (limestone) Limestone, White dust 8-10' Cavity
10-20	Sample red garnet 19-20' Magnetite (black dust) for 1 foot
20-24	Magnetite & red garnet
24-30	Fix drill, No return, Loss of Hole

End of Hole 30 feet

IRON ROSS MAGNETITE DRILL RECORD

Date: October 27, 2002

Project: Iron Ross; Location: Sayward Area

Drill: Rockpro Airtrac

Chip Samples Taken Every 10 Feet, Logged by J.T. Shearer, M.Sc.,P.Geo.

HOLE #9, Location: Halfway Down First New Trench in Magnetite Subcrop

Visual Log

0-10	Black dust 0-6' Magnetite 6-10' White dust/green, Limestone & skarn
10-20	Greenish dust, some white chips
	End of Hole 20 feet

IRON ROSS MAGNETITE DRILL RECORD

Date: October 27, 2002

Project: Iron Ross; Location: Sayward Area

Drill: Rockpro Airtrac

Chip Samples Taken Every 10 Feet, Logged by J.T. Shearer, M.Sc.,P.Geo.

HOLE #10, Location: On East Side of New Tote Road

Visual Log

0-10	0-5' Green intrusive 5-10' White limestone chips
10-20	10-18' Brown garnet?, minor magnetite 18-20' Whitish, Green chips
20-30	20-26 Magnetite, Black dust 26-28 Garnet 28-30 Green chips
30-40	Lots of Magnetite & garnet in sample Could be caved material Green chips & dust

IRON ROSS MAGNETITE DRILL RECORD

Date: October 27, 2002

Project: Iron Ross; Location: Sayward Area

Drill: Rockpro Airtrac

Chip Samples Taken Every 10 Feet, Logged by J.T. Shearer, M.Sc.,P.Geo.

HOLE #11, Location: Halfway up Trench, 2nd Feb. Trench

Visual Log

0-10	Broken skarn intrusive at surface Limestone 6 ft down 6-10' Limestone plus significant brown skarn
10-20	Light grey dust Light green chips
20-30	Light grey dust Coarse limestone chips at end
30-40	Darker dust Marked less dust "Seam" contact at about 34" Magnetite 34'-40'
40-50	Magnetite 40'-45' 45'-46' Garnet 46'-50' White dust
50-60	Light grey dust Limestone & Calc-silicates, garnet
	End of Hole 60 feet

IRON ROSS MAGNETITE DRILL RECORD

Date: October 28, 2002

Project: Iron Ross; Location: Sayward Area

Drill: Rockpro Airtrac

Chip Samples Taken Every 10 Feet, Logged by J.T. Shearer, M.Sc.,P.Geo.

HOLE #12, Location: Vertical Hole at End of Trench

Visual Log

0-10	Limestone powder
10-20	Limestone, dark limestone
20-30	Limestone powder Some dark chips
30-40	Limestone
40-50	Limestone, dark powder (limestone?)
50-60	Light green chips
60-70	White limestone powder
70-80	Greenish chips Contact at 78', garnet
80-90	Light green
90-100	90-95' Red-brown garnet Light green chips Garnet & limestone

End Of Hole 100 feet

IRON ROSS MAGNETITE DRILL RECORD

Date: October 28, 2002

Project: Iron Ross; Location: Sayward Area

Drill: Rockpro Airtrac

Chip Samples Taken Every 10 Feet, Logged by J.T. Shearer, M.Sc., P.Geo.

HOLE #13, Location: Halfway Up First Feb. Trench

Visual Log

0-10 Skarnified intrusive & limestone broken at surface
to 8', Green chips
8-10' Then white limestone chips

10-20 Red garnet at 17'

20-30 Darker at 22'
Magnetite 22'-
Skarn
Limestone chips
Disseminated magnetite?

30-40 Black at 30' to 36', weak disseminated magnetite?
36' Green skarn & red
38'-40' White & red dust

40-50 Green skarn 40'-45'
Magnetite 45'-47'
Red dust 47'-50'

50-60 Early 50's green skarn?
55' Red garnet to 56'
Green skarn & red 56'-57'
57'-60 Solid magnetite

60-70 Solid magnetite 60'-65'
Skarny magnetite 65'-66'
Solid Magnetite 66'-69'
69'-70' Green chips, skarn

57-70 13 feet

70-80 Hit water
Magnetite chips on board
No dust

End Of Hole 80 feet

IRON ROSS MAGNETITE DRILL RECORD

Date: October 28, 2002

Project: Iron Ross; Location: Sayward Area

Drill: Rockpro Airtrac

Chip Samples Taken Every 10 Feet, Logged by J.T. Shearer, M.Sc., P. Geo.

HOLE #14, Location:

Visual Log

0-10	Dyke intrusive, green chips
10-20	11' Start of white limestone
20-30	White Limestone & dark limestone
30-40	Limestone
45 Contact	
Wet Yellow Mud	

End Of Hole 50 feet

IRON ROSS MAGNETITE DRILL RECORD

Date: October 28, 2002

Project: Iron Ross; Location: Sayward Area

Drill: Rockpro Airtrac

Chip Samples Taken Every 10 Feet, Logged by J.T. Shearer, M.Sc.,P.Geo.

HOLE #14A, Location:

Visual Log

0-10	Dyke intrusive, green chips
10-20	14' Start of white limestone
20-30	White Limestone & dark limestone
30-40	Limestone 39' – green skarn?
40-50	Limestone & skarn 40'-44' 44'-45' Magnetite to 50' 43'-50' = 15'
50-60	Solid magnetite 50'-58' massive magnetite 58'-59.6' Limestone skarn 59.5'-60' Magnetite
60-70	60'64' Magnetite 64'-67.5' Green skarn 67.5'-70' Magnetite
70-80	70'-73' Magnetite 73' Green skarn & white limestone
80-90	Green skarn 80'-81.5' Magnetite 81.5'-83' Magnetite 83'-89' Green skarn
90-100	Green skarn

End Of Hole 100 feet

IRON ROSS MAGNETITE DRILL RECORD

Date: October , 2002

Project: Iron Ross; Location: Sayward Area

Drill: Rockpro Airtrac

Chip Samples Taken Every 10 Feet, Logged by J.T. Shearer, M.Sc.,P.Geo.

HOLE #15 & 15A, Location: End of Trench #1

Visual Log

15A	Struck Limestone above 48' Hit magnetite
50-60	48'-52' Magnetite, Black dust 52'-60' Green skarn
60-70	Green skarn 63'-65' Garnet 65'-66' Magnetite, Black dust 66'-68' Garnet - green skarn 68'-70' Magnetite, Black dust
70-80	70'-74.5' Magnetite, Black dust 74.5'-75' Green skarn 75'-78' Magnetite, Black dust 78'-78.5' Red skarn, garnet 78.5'-80' Magnetite, Black dust
80-90	Skarn, green chips, green dust

End of Hole 90 feet

IRON ROSS MAGNETITE DRILL RECORD

Date: October , 2002

Project: Iron Ross; Location: Sayward Area

Drill: Rockpro Airtrac

Chip Samples Taken Every 10 Feet, Logged by J.T. Shearer, M.Sc.,P.Geo.

HOLE #16, Location: Halfway Between 15 & 13, 16.8m From 14

Visual Log

0-10	Limestone, white
10-20	Limestone & skarn
20-30	Limestone & skarn
30-40	Massive black magnetite at 34' 34'-50' = 16' of solid magnetite
40-50	14'-47' Solid massive magnetite 47'-50' Skarn & magnetite
50-60	Green & white skarn 50'-55' White limestone 55'-57' Garnet skarn 57'-60' Green skarn & limestone, minor magnetite
60-70	Garnet & green skarn Darker dust at 64', disseminated magnetite 68'-68' Massive magnetite 68-68.5' Skarn 68.5'-70' Massive magnetite
70-80	70'-78' Solid massive magnetite 78'-79 White 79'-79.5' Red garnet & magnetite 79.5'-80' Magnetite
80-90	80'-84' White limestone, red garnet skarn, light green skarn 84'-86' Magnetite 86'-90' Green skarn, disseminated magnetite
90-100	90'-97' Green skarn 97'-98' Garnet skarn 98-200' Green skarn

End Of Hole 100 feet

IRON ROSS MAGNETITE DRILL RECORD

Date: November 1, 2002

Project: Iron Ross; Location: Sayward Area

Drill: Rockpro Airtrac

Chip Samples Taken Every 10 Feet, Logged From Cuttings and Drillers
Observations by J.T. Shearer, M.Sc., P.Geo.

HOLE #17, Location: At Sawcut Showing 500m East of Iron Ross
45° Hole Toward 110°, 30' from Showing

Visual Log

0-10	Magnetite, Black dust?
10-20	Dark Limestone chips, 2 feet of magnetite
20-30	Dark Limestone chips
30-40	
40-50	White Chips, Limestone

APPENDIX IV

DRILL LOGS, 2003

January 31, 2004

Drillhole Summary, Sayward Magnetite Project, Sept/03

Hole #	From ft.	To ft.	Thickness ft.	Remarks	From metres	To metres
1	0	10	10	Dark Grey to Black	0	3.05
	10	20	10	Dark Grey to Black	3.05	6.10
	20	30	10	Variable, dull, some white	6.10	9.15
	30	36	6	Dark Grey	9.15	10.98
	36	41	5	Buff to White	10.98	12.50
	41	46	5	Light Greyish Green	12.50	14.02
2	0	12	12	Lmst; soft, no returns, stuck	0.00	3.66
3	0	12	12	Lmst; soft;	0.00	3.66
	12	15	3	Lmst; soft;	3.66	4.57
	15	18	3	Greenish, soft;	4.57	5.49
	18	22	4	White to grey (lmst?)	5.49	6.71
	22	31	9	Greenish, white; harder	6.71	9.45
	31	32	1	White to grey (lmst?)	9.45	9.76
	32	36	4	Dark grey to black (lmst)	9.76	10.98
	36	48	12	Hole wandering; stopped	10.98	14.63
4	0	6	6	Lmst; white	0.00	1.83
	6	12	6	Lmst; white	1.83	3.66
	12	15	3	White	3.66	4.57
	15	18	3	White	4.57	5.49
	18	24	6	White	5.49	7.32
	24	30	6	Green to light brown	7.32	9.15
	30	35	5	Greenish	9.15	10.67
	35	42	7	White	10.67	12.80
	42	48	6	White; last 2 ft brownish	12.80	14.63
	48	51	3	Greenish grey; hole stopped	14.63	15.55
5	0	12	12	White to light grey	0.00	3.66
	12	18	6	White to light grey; broken	3.66	5.49
	18	24	6	White, 7 ft. void	5.49	7.32
	24	30	6	no returns	7.32	9.15
	30	36	6	abandoned hole	9.15	10.98
6	0	6	6	fill	0.00	1.83
	6	12	6	White	1.83	3.66
	12	18	6	White to light grey;	3.66	5.49
	18	24	6	Hit void; still white showing	5.49	7.32
	24	30	6	Void to 26; no returns;	7.32	9.15
			0	abandoned hole.	0.00	0.00
7	0	6	6	White	0.00	1.83
	6	12	6	White	1.83	3.66
	12	18	6	White to light grey;	3.66	5.49
	18	24	6	Light grey to brownish	5.49	7.32
	24	30	6	White to light grey;	7.32	9.15
	30	36	6	Light grey w/ white	9.15	10.98

	36	42	6	Light grey w/ white	10.98	12.80
	42	48	6	Light grey, 1 to 2 ft void	12.80	14.63
	48	54	6	Light grey, hole wandering	14.63	16.46
				Abandoned hole.		
8	0	6	6	White	0.00	1.83
	6	12	6	White, 2 - 3 ft void	1.83	3.66
	12	18	6	White, 16-18 is void	3.66	5.49
	18	24	6	White, v. soft	5.49	7.32
	24	30	6	White, lost returns; end	7.32	9.15
9	0	7	7	Light grey	0.00	2.13
	7	12	5	Black	2.13	3.66
	12	18	6	Black, small void	3.66	5.49
	18	22	4	Black	5.49	6.71
	22	24	2	Brown	6.71	7.32
	24	30	6	Greyish & brownish	7.32	9.15
	30	36	6	Greyish & brownish	9.15	10.98
	36	42	6	Greyish & brownish	10.98	12.80
	42	48	6	Grey	12.80	14.63
	48	54	6	Grey	14.63	16.46
	54	60	6	Grey	16.46	18.29
	60	66	6	Grey, hole wandering; end	18.29	20.12
10	0	5	5	Black	0.00	1.52
	5	10	5	Black	1.52	3.05
	10	13	3	Black, some grey/white	3.05	3.96
	13	18	5	Brown, grey; 1 ft black	3.96	5.49
	18	22	4	Softer, variable	5.49	6.71
	22	27	5	Mostly magnetite, some waste	6.71	8.23
	27	34	7	Soft; limestone at base	8.23	10.37
	34	37	3	Soft limestone	10.37	11.28
	37	42	5	Orange, then white	11.28	12.80
	42	46	4	White, some greenish	12.80	14.02
	46	52	6	Lmst; soft	14.02	15.85
	52	56	4	Lmst; soft	15.85	17.07
	56	66	10	Skarn; hard	17.07	20.12
	66	70	4	Skarn; hard	20.12	21.34
11	0	5	5	Black	0.00	1.52
	5	10	5	Brown	1.52	3.05
	10	15	5	Black	3.05	4.57
	15	18	3	Brown	4.57	5.49
	18	23	5	Brown	5.49	7.01
	23	24	1	Black	7.01	7.32
	24	30	6	Brown to grey	7.32	9.15
	30	36	6	Grey	9.15	10.98
	36	42	6	Grey	10.98	12.80
	42	48	6	Grey	12.80	14.63
	48	54	6	Grey	14.63	16.46

18

12	0	6	6	Black	0.00	1.83
	6	12	6	Black	1.83	3.66
	12	18	6	Black, some brown @ 17ft.	3.66	5.49
	18	24	6	Grey	5.49	7.32
	24	26	2	Black	7.32	7.93
	26	30	4	Grey	7.93	9.15
	30	36	6	Grey, (end sampling)	9.15	10.98
	36	42	6	Grey	10.98	12.80
	42	48	6	Grey	12.80	14.63
13	0	2	2	Black	0.00	0.61
	2	3	1	Brown	0.61	0.91
	3	5	2	Black	0.91	1.52
	5	6	1	Brown	1.52	1.83
	6	12	6	Brown, slight black streaks	1.83	3.66
	12	18	6	Grey	3.66	5.49
	18	24	6	Grey	5.49	7.32
	24	30	6	Grey	7.32	9.15
	30	36	6	Grey	9.15	10.98
	36	42	6	Grey	10.98	12.80
	42	48	6	Grey	12.80	14.63
14	0	6	6	Black	0.00	1.83
	6	10	4	Black	1.83	3.05
	10	18	8	Brown to grey	3.05	5.49
	18	24	6	Grey, some brown	5.49	7.32
	24	30	6	Grey (end sampling)	7.32	9.15
	30	36	6	Grey	9.15	10.98
15	0	2	2	Black	0.00	0.61
	2	4	2	Brown	0.61	1.22
	4	5	1	Black	1.22	1.52
	5	8	3	Brown	1.52	2.44
	8	12	4	Light Brown	2.44	3.66
	12	15	3	Brown	3.66	4.57
	15	18	3	Black	4.57	5.49
	18	22	4	Black	5.49	6.71
	22	30	8	Grey	6.71	9.15
	30	36	6	Grey	9.15	10.98
	36	39	3	Grey	10.98	11.89
	39	42	3	Brown	11.89	12.80
	42	48	6	Light Brown to grey	12.80	14.63
16	0	6	6	Light brown	0.00	1.83
	6	12	6	Light brown to grey	1.83	3.66
	12	18	6	Grey	3.66	5.49
	18	24	6	Grey	5.49	7.32
	24	30	6	Grey	7.32	9.15
	30	36	6	Grey	9.15	10.98

17	0	6	6	Black	0.00	1.83
	6	12	6	Brown	1.83	3.66
	12	18	6	Brown w\1 to 2 ft black streak	3.66	5.49
	18	24	6	Brown to grey	5.49	7.32
	24	30	6	Grey	7.32	9.15
	30	36	6	Grey	9.15	10.98
	36	42	6	Grey	10.98	12.80
	42	48	6	Grey	12.80	14.63
18	0	6	6	Light brown to grey	0.00	1.83
	6	12	6	Light brown to grey	1.83	3.66
	12	20	8	Black	3.66	6.10
	20	24	4	Grey w\ brown streaks	6.10	7.32
	24	30	6	Grey w\ brown streaks	7.32	9.15
	30	36	6	Grey	9.15	10.98
	36	42	6	Grey	10.98	12.80
	42	48	6	Grey	12.80	14.63
19	0	6	6	Till	0.00	1.83
	6	12	6	Grey, slightly brown	1.83	3.66
	12	18	6	Grey	3.66	5.49
	18	24	6	Grey	5.49	7.32
	24	30	6	Grey	7.32	9.15
	30	36	6	Grey	9.15	10.98
	36	42	6	Grey	10.98	12.80
	42	48	6	Grey	12.80	14.63
20	0	6	6	Till	0.00	1.83
	6	12	6	Grey, slightly brown	1.83	3.66
	12	18	6	Grey	3.66	5.49
	18	24	6	Grey	5.49	7.32
	24	30	6	Grey	7.32	9.15
	30	36	6	Grey	9.15	10.98
	36	42	6	Grey	10.98	12.80
21	0	6	6	Grey	0.00	1.83
	6	12	6	Grey	1.83	3.66
	12	18	6	Grey	3.66	5.49
	18	24	6	Grey	5.49	7.32
	24	30	6	Grey	7.32	9.15
	30	36	6	Grey	9.15	10.98
	36	42	6	Grey	10.98	12.80
	42	48	6	Grey	12.80	14.63
22	0	6	6	Lmst.; soft	0.00	1.83
	6	10	4	Lmst.; soft	1.83	3.05
	10	15	5	Lmst.; soft	3.05	4.57
	15	22	7	Lmst.; soft	4.57	6.71
	22	28	6	Harder; grey to buff	6.71	8.54

	28	34	6	Grey	8.54	10.37
	34	40	6	Greenish grey	10.37	12.20
	40	46	6	Greenish grey	12.20	14.02
	46	52	6	Greenish grey	14.02	15.85
	52	58	6	Greenish grey	15.85	17.68
	58	64	6	Greenish grey	17.68	19.51
	64	70	6	Greenish grey	19.51	21.34
23	0	12	12	Fill : no returns	0.00	3.66
	12	24	12	No returns	3.66	7.32
	24	30	6	Soft; brownish w/white chunks	7.32	9.15
	30	36	6	Greenish grey; harder; last 4 ft.	9.15	10.98
				soft; poor returns		
	36	37	1	Soft lmst.	10.98	11.28
	37	38	1	Dropped into a void; abandon	11.28	11.59
24	0	5	5	Black	0.00	1.52
	5	6	1	White	1.52	1.83
	6	10	4	White	1.83	3.05
	10	18	8	Black	3.05	5.49
	18	22	4	Brown to Buff; hard	5.49	6.71
	22	26	4	Brown to Buff; hard	6.71	7.93
	26	27	1	Black	7.93	8.23
	27	28	1	Buff	8.23	8.54
	28	34	6	Buff, some orange; 1 thin black	8.54	10.37
	34	36	2	Buff	10.37	10.98
	36	36.5	0.5	Black	10.98	11.13
	36.5	40	3.5	Orange	11.13	12.20
	40	46	6	Orange, some grey	12.20	14.02
	46	52	6	Grey, some orange	14.02	15.85
	52	58	6	Grey, some orange	15.85	17.68
25	0	4	4	White lmst.	0.00	1.22
	4	6	2	Black	1.22	1.83
	6	10	4	Black	1.83	3.05
	10	16	6	Orange, some white	3.05	4.88
	16	22	6	White, grey, some orange	4.88	6.71
	22	25	3	White	6.71	7.62
	25	29	4	Black	7.62	8.84
	29	34	5	Black, thin white band	8.84	10.37
	34	37	3	Orange	10.37	11.28
	37	40	3	Greenish grey	11.28	12.20
	40	46	6	Grey	12.20	14.02
	46	52	6	Grey, some orange	14.02	15.85
26	0	6	6	Lmst.	0.00	1.83
	6	10	4	Greenish grey	1.83	3.05
	10	14	4	Greenish grey	3.05	4.27
	14	16	2	Orange bands	4.27	4.88
	16	22	6	Greenish grey	4.88	6.71

27	0	9	9	Road Fill	0.00	2.74
	9	10	1	No returns	2.74	3.05
	10	16	6	Dk Grey w/grn bands;some blk	3.05	4.88
	16	22	6	Dark grey to white	4.88	6.71
	22	28	6	Greenish (wet)	6.71	8.54
	28	34	6	Brownish (wet)	8.54	10.37
	34	40	6	No returns, wet	10.37	12.20
	40	41	1	v. green	12.20	12.50
	41	46	5	Greenish	12.50	14.02
	46	48	2	Greenish	14.02	14.63
	48	49	1	Dark grey	14.63	14.94
	49	52	3	Green & grey mixed	14.94	15.85
	52	55	3	Green & grey; darker	15.85	16.77
28	0	4	4	Fill	0.00	1.22
	4	8	4	White; soft	1.22	2.44
	8	10	2	Magnetite; dirty layers	2.44	3.05
	10	11	1	Green	3.05	3.35
	11	12	1	Black	3.35	3.66
	12	14	2	Black	3.66	4.27
	14	16	2	White	4.27	4.88
	16	22	6	Greenish	4.88	6.71
	22	28	6	Greenish, with grey	6.71	8.54
	28	34	6	Greenish, with grey	8.54	10.37
	34	40	6	Greenish; some white	10.37	12.20
	40	46	6	Greenish; some white	12.20	14.02
29	0	3	3	Fill	0.00	0.91
	3	3.5	0.5	Magnetite	0.91	1.07
	3.5	6	2.5	Soft white lmst.	1.07	1.83
	6	10	4	Greenish wh. w/ blk @9 -10ft.	1.83	3.05
	10	13	3	White	3.05	3.96
	13	14	1	Black	3.96	4.27
	14	15	1	Orange	4.27	4.57
	15	16	1	Green & Black mixed	4.57	4.88
	16	22	6	White; soft; variable;	4.88	6.71
	22	27	5	White; soft; variable;	6.71	8.23
	28	34	6	Green skarn	8.54	10.37
30	0	6	6	Till	0.00	1.83
	6	10	4	Soft; greenish	1.83	3.05
	10	16	6	Greenish; a bit hard	3.05	4.88
	16	22	6	Greenish; a bit hard	4.88	6.71
	22	28	6	Grey and Green	6.71	8.54
	28	34	6	Grey; buff @ 33	8.54	10.37
	34	40	6	Grey and white	10.37	12.20
	40	46	6	Grey and white	12.20	14.02
	46	52	6	Grey and white	14.02	15.85
	52	58	6	Greenish; end of hole	15.85	17.68
31	0	4	4	Road fill	0.00	1.22

	4	10	6	Magnetite; some white particles	1.22	3.05
	10	11	1	Magnetite; dirty; dull	3.05	3.35
	11	16	5	Buff to white	3.35	4.88
	16	22	6	Greenish; end hole	4.88	6.71

Drillhole Summary, Sayward Magnetite Project, Sept/03

Hole #	From ft.	To ft.	Thickness ft.	Remarks	From metres	To metres	Thickness metres	Sample Remarks
1	0	10	10	Dark Grey to Black	0.00	3.05	3.05	Save
	10	20	10	Dark Grey to Black	3.05	6.10	3.05	Save
	20	30	10	Variable, dull, some white	6.10	9.15	3.05	Save
	30	36	6	Dark Grey	9.15	10.98	1.83	Save
	36	41	5	Buff to White	10.98	12.50	1.52	Save
	41	46	5	Light Greyish Green	12.50	14.02	1.52	Save
2	0	12	12	Lmst; soft, no returns, stuck	0.00	3.66	3.66	O.K.
3	0	12	12	Lmst; soft;	0.00	3.66	3.66	O.K.
	12	15	3	Lmst; soft;	3.66	4.57	0.91	O.K.
	15	18	3	Greenish, soft;	4.57	5.49	0.91	O.K.
	18	22	4	White to grey (lmst?)	5.49	6.71	1.22	O.K.
	22	31	9	Greenish, white; harder	6.71	9.45	2.74	O.K.
	31	32	1	White to grey (lmst?)	9.45	9.76	0.30	O.K.
	32	36	4	Dark grey to black (lmst)	9.76	10.98	1.22	O.K.
	36	48	12	Hole wandering; stopped	10.98	14.63	3.66	O.K.
4	0	6	6	Lmst; white	0.00	1.83	1.83	Save
	6	12	6	Lmst; white	1.83	3.66	1.83	Save
	12	15	3	White	3.66	4.57	0.91	Save
	15	18	3	White	4.57	5.49	0.91	Save
	18	24	6	White	5.49	7.32	1.83	Save
	24	30	6	Green to light brown	7.32	9.15	1.83	Save
	30	35	5	Greenish	9.15	10.67	1.52	Save
	35	42	7	White	10.67	12.80	2.13	Save
	42	48	6	White; last 2 ft brownish	12.80	14.63	1.83	Save
	48	51	3	Greenish grey; hole stopped	14.63	15.55	0.91	Save
5	0	12	12	White to light grey	0.00	3.66	3.66	O.K.
	12	18	6	White to light grey; broken	3.66	5.49	1.83	O.K.
	18	24	6	White, 7 ft. void	5.49	7.32	1.83	O.K.
	24	30	6	no returns	7.32	9.15	1.83	O.K.
	30	36	6	abandoned hole	9.15	10.98	1.83	O.K.
6	0	6	6	fill	0.00	1.83	1.83	Save
	6	12	6	White	1.83	3.66	1.83	Save
	12	18	6	White to light grey;	3.66	5.49	1.83	Save
	18	24	6	Hit void; still white showing	5.49	7.32	1.83	Save
	24	30	6	Void to 26; no returns;	7.32	9.15	1.83	Save
			0	abandoned hole.	0.00	0.00	0.00	
7	0	6	6	White	0.00	1.83	1.83	Save
	6	12	6	White	1.83	3.66	1.83	Save
	12	18	6	White to light grey;	3.66	5.49	1.83	Save
	18	24	6	Light grey to brownish	5.49	7.32	1.83	Save
	24	30	6	White to light grey;	7.32	9.15	1.83	Save
	30	36	6	Light grey w/ white	9.15	10.98	1.83	Save
	36	42	6	Light grey w/ white	10.98	12.80	1.83	Save
	42	48	6	Light grey, 1 to 2 ft void	12.80	14.63	1.83	Save
	48	54	6	Light grey, hole wandering	14.63	16.46	1.83	Save
				Abandoned hole.				

Hole #	From ft.	To ft.	Thickness ft.	Remarks	From metres	To metres	Thickness metres	
8	0	6	6	White	0.00	1.83	1.83	O.K.
	6	12	6	White, 2 - 3 ft void	1.83	3.66	1.83	O.K.
	12	18	6	White, 16-18 is void	3.66	5.49	1.83	O.K.
	18	24	6	White, v. soft	5.49	7.32	1.83	O.K.
	24	30	6	White, lost returns; end	7.32	9.15	1.83	O.K.
9	0	7	7	Light grey	0.00	2.13	2.13	Save
	7	12	5	Black	2.13	3.66	1.52	Split 50/50, then
	12	18	6	Black, small void	3.66	5.49	1.83	combine splits
	18	22	4	Black	5.49	6.71	1.22	for assay.
	22	24	2	Brown	6.71	7.32	0.61	Save
	24	30	6	Greyish & brownish	7.32	9.15	1.83	Save
	30	36	6	Greyish & brownish	9.15	10.98	1.83	Save
	36	42	6	Greyish & brownish	10.98	12.80	1.83	Save
	42	48	6	Grey	12.80	14.63	1.83	Save
	48	54	6	Grey	14.63	16.46	1.83	Save
	54	60	6	Grey	16.46	18.29	1.83	Save
	60	66	6	Grey, hole wandering; end	18.29	20.12	1.83	Save
10	0	5	5	Black	0.00	1.52	1.52	Split and
	5	10	5	Black	1.52	3.05	1.52	combine.
	10	13	3	Black, some greywhite	3.05	3.96	0.91	O.K.
	13	18	5	Brown, grey; 1 ft black	3.96	5.49	1.52	O.K.
	18	22	4	Softer, variable	5.49	6.71	1.22	O.K.
	22	27	5	Mostly magnetite, some waste	6.71	8.23	1.52	O.K.
	27	34	7	Soft; limestone at base	8.23	10.37	2.13	Save
	34	37	3	Soft limestone	10.37	11.28	0.91	Save
	37	42	5	Orange, then white	11.28	12.80	1.52	Save
	42	46	4	White, some greenish	12.80	14.02	1.22	Save
	46	52	6	Lmst; soft	14.02	15.85	1.83	Save
	52	56	4	Lmst; soft	15.85	17.07	1.22	Save
	56	66	10	Skarn; hard	17.07	20.12	3.05	Save
	66	70	4	Skarn; hard	20.12	21.34	1.22	Save
11	0	5	5	Black	0.00	1.52	1.52	Save
	5	10	5	Brown	1.52	3.05	1.52	Save
	10	15	5	Black	3.05	4.57	1.52	Save
	15	18	3	Brown	4.57	5.49	0.91	Save
	18	23	5	Brown	5.49	7.01	1.52	Save
	23	24	1	Black	7.01	7.32	0.30	Save
	24	30	6	Brown to grey	7.32	9.15	1.83	Save
	30	36	6	Grey	9.15	10.98	1.83	Save
	36	42	6	Grey	10.98	12.80	1.83	Save
	42	48	6	Grey	12.80	14.63	1.83	Save
	48	54	6	Grey	14.63	16.46	1.83	Save

Hole #	From ft.	To ft.	Thickness ft.	Remarks	From metres	To metres	Thickness metres	
12	0	6	6	Black	0.00	1.83	1.83	Split and combine
	6	12	6	Black	1.83	3.66	1.83	
	12	18	6	Black, some brown @ 17ft.	3.66	5.49	1.83	O.K.
	18	24	6	Grey	5.49	7.32	1.83	O.K.
	24	26	2	Black	7.32	7.93	0.61	O.K.
	26	30	4	Grey	7.93	9.15	1.22	Save
	30	36	6	Grey, (end sampling)	9.15	10.98	1.83	Save
	36	42	6	Grey	10.98	12.80	1.83	Save
	42	48	6	Grey	12.80	14.63	1.83	Save
13	0	2	2	Black	0.00	0.61	0.61	Save
	2	3	1	Brown	0.61	0.91	0.30	Save
	3	5	2	Black	0.91	1.52	0.61	Save
	5	6	1	Brown	1.52	1.83	0.30	Save
	6	12	6	Brown, slight black streaks	1.83	3.66	1.83	Save
	12	18	6	Grey	3.66	5.49	1.83	Save
	18	24	6	Grey	5.49	7.32	1.83	Save
	24	30	6	Grey	7.32	9.15	1.83	Save
	30	36	6	Grey	9.15	10.98	1.83	Save
	36	42	6	Grey	10.98	12.80	1.83	Save
14	42	48	6	Grey	12.80	14.63	1.83	Save
	0	6	6	Black	0.00	1.83	1.83	Split and combine
	6	10	4	Black	1.83	3.05	1.22	
	10	18	8	Brown to grey	3.05	5.49	2.44	Save
	18	24	6	Grey, some brown	5.49	7.32	1.83	Save
24	30	6	Grey (end sampling)	7.32	9.15	1.83	Save	
15	30	36	6	Grey	9.15	10.98	1.83	Save
	0	2	2	Black	0.00	0.61	0.61	Split then combine for assay
	2	4	2	Brown	0.61	1.22	0.61	
	4	5	1	Black	1.22	1.52	0.30	Save
	5	8	3	Brown	1.52	2.44	0.91	Save
	8	12	4	Light Brown	2.44	3.66	1.22	Save
	12	15	3	Brown	3.66	4.57	0.91	Save
	15	18	3	Black	4.57	5.49	0.91	Split and combine
	18	22	4	Black	5.49	6.71	1.22	
	22	30	8	Grey	6.71	9.15	2.44	Save
	30	36	6	Grey	9.15	10.98	1.83	Save
	36	39	3	Grey	10.98	11.89	0.91	Save
39	42	3	Brown	11.89	12.80	0.91	Save	
42	48	6	Light Brown to grey	12.80	14.63	1.83	Save	
16	0	6	6	Light brown	0.00	1.83	1.83	Save
	6	12	6	Light brown to grey	1.83	3.66	1.83	Save
	12	18	6	Grey	3.66	5.49	1.83	Save
	18	24	6	Grey	5.49	7.32	1.83	Save
	24	30	6	Grey	7.32	9.15	1.83	Save
17	30	36	6	Grey	9.15	10.98	1.83	Save
	0	6	6	Black	0.00	1.83	1.83	O.K.
	6	12	6	Brown	1.83	3.66	1.83	Save
	12	18	6	Brown w/1 to 2 ft black streak	3.66	5.49	1.83	Save
	18	24	6	Brown to grey	5.49	7.32	1.83	Save
	24	30	6	Grey	7.32	9.15	1.83	Save
	30	36	6	Grey	9.15	10.98	1.83	Save
36	42	6	Grey	10.98	12.80	1.83	Save	
42	48	6	Grey	12.80	14.63	1.83	Save	

Hole #	From #	To #	Thickness #	Remarks	From metres	To metres	Thickness metres	
18	0	6	6	Light brown to grey	0.00	1.83	1.83	Save
	6	12	6	Light brown to grey	1.83	3.66	1.83	Save
	12	20	8	Black	3.66	6.10	2.44	Save
	20	24	4	Grey w/ brown streaks	6.10	7.32	1.22	Save
	24	30	6	Grey w/ brown streaks	7.32	9.15	1.83	Save
	30	36	6	Grey	9.15	10.98	1.83	Save
	36	42	6	Grey	10.98	12.80	1.83	Save
	42	48	6	Grey	12.80	14.63	1.83	Save
19	0	6	6	TL	0.00	1.83	1.83	Save
	6	12	6	Grey, slightly brown	1.83	3.66	1.83	Save
	12	18	6	Grey	3.66	5.49	1.83	Save
	18	24	6	Grey	5.49	7.32	1.83	Save
	24	30	6	Grey	7.32	9.15	1.83	Save
	30	36	6	Grey	9.15	10.98	1.83	Save
	36	42	6	Grey	10.98	12.80	1.83	Save
	42	48	6	Grey	12.80	14.63	1.83	Save
20	0	6	6	TL	0.00	1.83	1.83	Save
	6	12	6	Grey, slightly brown	1.83	3.66	1.83	Save
	12	18	6	Grey	3.66	5.49	1.83	Save
	18	24	6	Grey	5.49	7.32	1.83	Save
	24	30	6	Grey	7.32	9.15	1.83	Save
	30	36	6	Grey	9.15	10.98	1.83	Save
	36	42	6	Grey	10.98	12.80	1.83	Save
21	0	6	6	Grey	0.00	1.83	1.83	Save
	6	12	6	Grey	1.83	3.66	1.83	Save
	12	18	6	Grey	3.66	5.49	1.83	Save
	18	24	6	Grey	5.49	7.32	1.83	Save
	24	30	6	Grey	7.32	9.15	1.83	Save
	30	36	6	Grey	9.15	10.98	1.83	Save
	36	42	6	Grey	10.98	12.80	1.83	Save
	42	48	6	Grey	12.80	14.63	1.83	Save
22	0	6	6	Lmat., soft	0.00	1.83	1.83	O.K.
	6	10	4	Lmat., soft	1.83	3.05	1.22	O.K.
	10	15	5	Lmat., soft	3.05	4.57	1.52	O.K.
	15	22	7	Lmat., soft	4.57	6.71	2.14	O.K.
	22	28	6	Harder, grey to buff	6.71	8.54	1.83	O.K.
	28	34	6	Grey	8.54	10.37	1.83	O.K.
	34	40	6	Greenish grey	10.37	12.20	1.83	O.K.
	40	46	6	Greenish grey	12.20	14.02	1.83	O.K.
	46	52	6	Greenish grey	14.02	15.85	1.83	O.K.
	52	58	6	Greenish grey	15.85	17.68	1.83	O.K.
	58	64	6	Greenish grey	17.68	19.51	1.83	O.K.
	64	70	6	Greenish grey	19.51	21.34	1.83	O.K.
23	0	12	12	Fill: no returns	0.00	3.66	3.66	
	12	24	12	No returns	3.66	7.32	3.66	O.K.
	24	30	6	Soft, brownish w/ white chunks	7.32	9.15	1.83	O.K.
	30	36	6	Greenish grey, harder, last 4 ft. soft, poor returns	9.15	10.98	1.83	O.K.
	36	37	1	Soft lmat.	10.98	11.28	0.30	O.K.
	37	38	1	Dropped into a void; abandon	11.28	11.58	0.30	O.K.
Hole #	From #	To #	Thickness #	Remarks	From metres	To metres	Thickness metres	
24	0	5	5	Black	0.00	1.52	1.52	O.K.
	5	8	3	White	1.52	1.83	0.30	Save
	8	10	2	White	1.83	3.05	1.22	Save
	10	18	8	Black	3.05	5.49	2.44	O.K.
	18	22	4	Brown to buff, hard	5.49	6.71	1.22	Split and combine
	22	26	4	Brown to buff, hard	6.71	7.83	1.12	Split and combine
	26	27	1	Black	7.83	8.23	0.40	O.K.
	27	28	1	Buff	8.23	8.54	0.30	Save
	28	34	6	Buff, some orange: 1 thin black	8.54	10.37	1.83	Save
	34	36	2	Buff	10.37	10.98	0.61	Save
	36	36.5	0.5	Black	10.98	11.13	0.15	Save
	36.5	40	3.5	Orange	11.13	12.20	1.07	Save
	40	46	6	Orange, some grey	12.20	14.02	1.83	Save
	46	52	6	Grey, some orange	14.02	15.85	1.83	Save
	52	58	6	Grey, some orange	15.85	17.68	1.83	Save
25	0	4	4	White lmat.	0.00	1.22	1.22	Save
	4	8	4	Black	1.22	1.83	0.61	Split and combine
	8	10	2	Black	1.83	3.05	1.22	Save
	10	16	6	Orange, some white	3.05	4.88	1.83	Save
	16	22	6	White, grey, some orange	4.88	6.71	1.83	Save
	22	25	3	White	6.71	7.62	0.91	Save
	25	28	3	Black	7.62	8.84	1.22	Split and combine
	28	34	6	Black, thin white band	8.84	10.37	1.52	Split and combine
	34	37	3	Orange	10.37	11.28	0.91	Save
	37	40	3	Greenish grey	11.28	12.20	0.91	Save
	40	46	6	Grey	12.20	14.02	1.83	Save
	46	52	6	Grey, some orange	14.02	15.85	1.83	Save
26	0	6	6	Lmat.	0.00	1.83	1.83	Save
	6	10	4	Greenish grey	1.83	3.05	1.22	Save
	10	14	4	Greenish grey	3.05	4.27	1.22	Save
	14	16	2	Orange bands	4.27	4.88	0.61	Save
	16	22	6	Greenish grey	4.88	6.71	1.83	Save
27	0	9	9	Road fill	0.00	2.74	2.74	
	9	10	1	No returns	2.74	3.05	0.30	
	10	16	6	Dark Grey w/ gm bands, some blr	3.05	4.88	1.83	O.K.
	16	22	6	Dark grey to white	4.88	6.71	1.83	O.K.
	22	28	6	Greenish (west)	6.71	8.54	1.83	O.K.
	28	34	6	Brownish (west)	8.54	10.37	1.83	O.K.
	34	40	6	No returns, wet	10.37	12.20	1.83	O.K.
	40	41	1	v. green	12.20	12.50	0.30	O.K.
	41	46	5	Greenish	12.50	14.02	1.52	O.K.
	46	48	2	Greenish	14.02	14.63	0.61	O.K.
	48	49	1	Dark grey	14.63	14.94	0.30	O.K.
	49	52	3	Green & grey mixed	14.94	15.85	0.91	O.K.
	52	55	3	Green & grey, darker	15.85	18.77	0.91	O.K.

Hole #	From ft.	To ft.	Thickness ft.	Remarks	From metres	To metres	Thickness metres	
28	0	4	4	Fill	0.00	1.22	1.22	
	4	8	4	White; soft	1.22	2.44	1.22	
	8	10	2	Magnetite; dirty layers	2.44	3.05	0.61	O.K.
	10	11	1	Green	3.05	3.35	0.30	O.K.
	11	12	1	Black	3.35	3.66	0.30	Spill and
	12	14	2	Black	3.66	4.27	0.61	combine
	14	16	2	White	4.27	4.88	0.61	O.K.
	16	22	6	Greenish	4.88	6.71	1.83	O.K.
	22	28	6	Greenish, with grey	6.71	8.54	1.83	O.K.
	28	34	6	Greenish, with grey	8.54	10.37	1.83	O.K.
	34	40	6	Greenish; some white	10.37	12.20	1.83	O.K.
	40	46	6	Greenish; some white	12.20	14.02	1.83	O.K.
29	0	3	3	Fill	0.00	0.91	0.91	O.K.
	3	3.5	0.5	Magnetite	0.91	1.07	0.15	O.K.
	3.5	6	2.5	Soft white lmst.	1.07	1.83	0.76	O.K.
	6	10	4	Greenish wh. W/ blk @9-10ft.	1.83	3.05	1.22	O.K.
	10	13	3	White	3.05	3.96	0.91	O.K.
	13	14	1	Black	3.96	4.27	0.30	O.K.
	14	15	1	Orange	4.27	4.57	0.30	O.K.
	15	16	1	Green & Black mixed	4.57	4.88	0.30	O.K.
	16	22	6	White; soft; variable;	4.88	6.71	1.83	O.K.
	22	27	5	White; soft; variable;	6.71	8.23	1.52	O.K.
	28	34	6	Green skarn	8.54	10.37	1.83	O.K.
30	0	6	6	Till	0.00	1.83	1.83	
	6	10	4	Soft; greenish	1.83	3.05	1.22	Save
	10	16	6	Greenish; a bit hard	3.05	4.88	1.83	Save
	16	22	6	Greenish; a bit hard	4.88	6.71	1.83	Save
	22	28	6	Grey and Green	6.71	8.54	1.83	Save
	28	34	6	Grey; buff @ 33	8.54	10.37	1.83	Save
	34	40	6	Grey and white	10.37	12.20	1.83	Save
	40	46	6	Grey and white	12.20	14.02	1.83	Save
	46	52	6	Grey and white	14.02	15.85	1.83	Save
	52	58	6	Greenish; end of hole	15.85	17.68	1.83	Save
31	0	4	4	Road fill	0.00	1.22	1.22	
	4	10	6	Magnetite; some white particles	1.22	3.05	1.83	O.K.
	10	11	1	Magnetite; dirty; dull	3.05	3.35	0.30	O.K.
	11	16	5	Buff to white	3.35	4.88	1.52	Save
	16	22	6	Greenish; end hole	4.88	6.71	1.83	Save

APPENDIX VI

RAW FIELD DATA for GROUND MAGNETOMETER SURVEY

January 31, 2004

OMNI-PLUS Tie-line MAG/VLF V12N Ser #418141
 TOTAL FIELD DATA (uncorrected)

Reference field: 55000.0
 Datum subtracted: 0.0 Date 5 JUN 3
 Operator: 3000
 Records: 27
 Bat: 17.2 Volt Lithium: 3.48 Volt
 Last time update: 6/05 14:29:00
 Start of print: 6/05 16:47:07

Line	1	Date	5 JUN 3	#1
POSITION	FIELD	ERR	DRIFT	TIME DS CULT
2	56467.6	.19	1468	0.0 14:34:23 88 1468
3	56133.8	.04	1134	0.0 14:37:43 88 1134
4	56088.5	.04	1089	0.0 14:39:44 88 1089
5	55960.5	.04	0961	0.0 14:41:06 88
6	55890.1	.04	890	0.0 14:42:40 88
7	55882.1	.05	882	0.0 14:43:30 88
8	55915.4	.04	915	0.0 14:44:33 88
9	55937.3	.04	937	0.0 14:45:19 88
10	56018.4	.04	1018	0.0 14:46:34 88
11	56090.2	.04	1090	0.0 14:47:22 88

Line	2	Date	5 JUN 3	#11
POSITION	FIELD	ERR	DRIFT	TIME DS CULT
22	55441.2	.04	441	0.0 14:53:08 88 65
33	55258.5	.04	259	0.0 14:59:16 88
43	56079.0	.05	1079	0.0 15:00:39 88
53	58360.3	.06	3360	0.0 15:01:54 88
63	58545.8	.06	3546	0.0 15:02:45 88 65
73	57061.6	.05	2062	0.0 15:03:37 88
83	56500.4	.06	1500	0.0 15:04:35 88 85
93	56202.3	.05	1202	0.0 15:05:33 88 55
103	55540.0	.06	540	0.0 15:06:10 88 65

Line	3	Date	5 JUN 3	#20
POSITION	FIELD	ERR	DRIFT	TIME DS CULT
113	54533.2	.05	467	0.0 15:10:23 88 55
123	55164.9	.07	165	0.0 15:12:37 88 65
133	59996.1	.87	4996	0.0 15:13:54 85 55
143	59735.9	.06	4736	0.0 15:15:04 88 66
153	56959.9	.14	1660	0.0 15:16:38 76
163	69404.2	13.14	1404	0.0 15:17:51 32 68
173	60224.1	.56	5224	0.0 15:18:50 43 56
183	58859.3	.06	3857	0.0 15:19:47 86

EOF

□□



*adjusted values layer
 adjustment = -55,000*

JUN6CORR.DMP

OMNI-IV Tie-line MAG Ser #418141
TOTAL FIELD DATA (Base stn. corrected)

Reference field: 55000.0
Datum subtracted: 0.0 Date 6 JUN 3
Operator: 3000
Records: 231
Bat: 17.1 Volt Lithium: 3.48 volt
Last time update: 6/06 8:18:00
Start of print: 6/06 19:16:25

Base stn. Pos: 1 Line: -1
Last time update: 6/04 13:09:00
Start of print: 6/06 19:17:06

3A

3A

Line	35	Date	6 JUN 3	#1
POSITION	FIELD	ERR	DRIFT	TIME DS CULT
-1488	11	53511.9	.13	755.0 8:49:14 85
-1503	21	53696.7	.10	756.0 8:50:55 88
-352	31	54647.3	.04	756.0 8:51:48 88
-1277	41	53702.6	.65	755.1 8:53:15 58
2742	51	57741.7	2.0	754.9 8:54:20 45
13333	61	68332.9	.86	755.3 8:55:43 53
2182	71	57181.6	.39	755.5 8:56:58 48
7220	81	64219.5	14.	756.2 8:58:03 34
18200	91	73799.6	43.	756.2 8:59:32 32
201835	101	75835.2	1.5	755.3 9:01:20 46
201971	111	75970.5	2.0	755.3 9:02:49 36
201698	121	75697.6	63.	754.5 9:04:52 32
18291	131	73290.9	85.	749.5 9:14:08 22
20076	141	75076.4	1.1	749.4 9:16:26 45
17398	151	72398.3	81.	748.1 9:19:36 22

LINE 35
chainage = 1+70 m
(on plan scales at 194 m)
why is chainage only 160??
avg slope between i. l. g.

Line	4	Date	6 JUN 3	#16
POSITION	FIELD	ERR	DRIFT	TIME DS CULT
86	11	55086.1	.32	746.4 9:26:23 53
-567	21	54433.4	.04	746.6 9:29:24 88
-619	31	54380.8	.04	746.8 9:30:08 88
-747	41	54253.0	.05	747.0 9:31:02 88
-1108	51	53891.7	.05	747.5 9:32:11 88
-2001	61	52938.5	.06	747.1 9:33:28 88
-2710	71	52089.9	.09	746.8 9:34:08 88
-6783	81	48216.9	.20	746.2 9:36:26 86
-7921	91	47079.2	.30	746.4 9:37:50 57
-6722	101	48277.8	.29	746.6 9:38:35 78
-3787	111	51013.1	.14	747.4 9:39:50 78
-2614	121	52386.0	.05	747.4 9:40:28 88
-2053	131	52946.9	.05	746.9 9:41:07 88
775	141	55775.2	.36	746.4 9:41:37 68
-879	151	54100.6	.10	746.1 9:41:58 78

Line	5	Date	6 JUN 3	#31
POSITION	FIELD	ERR	DRIFT	TIME DS CULT
157	10	55156.7	.04	746.7 9:47:23 88
137	20	55137.0	.04	745.8 9:49:39 88
166	30	55165.6	.04	745.9 9:50:36 88
432	40	55432.1	.04	745.5 9:51:35 88
059	50	55059.4	.04	745.2 9:52:24 88
-306	60	54693.6	.04	744.6 9:53:29 88
-541	70	54458.8	.04	744.4 9:54:10 88
-724	80	54075.6	.04	743.9 9:55:03 88
-1783	90	53217.1	.07	743.8 9:55:38 87

Line	6	Date	6 JUN 3	JUN6CORR.DMP
POSITION	FIELD	ERR	DRIFT	TIME DS CULT
221?	20	55129.3	.04	740.6 10:00:17 88
129	30	55093.0	.04	740.2 10:00:52 88

133	50	55132.3	.04	739.0	10:02:10	88
070	60	55069.6	.05	739.6	10:03:18	88
062	70	55062.1	.05	740.1	10:04:14	88
047	80	55096.9	.05	739.8	10:05:10	88
179	90	55178.9	.04	739.5	10:06:01	88
526	100	55526.1	.04	739.5	10:06:52	88
546	110	55546.0	.04	739.4	10:07:35	88
765	120	55764.7	.04	738.9	10:08:39	88

Line	7	Date	6 JUN 3	#52
POSITION	FIELD	ERR	DRIFT	TIME DS CULT
730	11	55730.3	.03	735.0 10:18:28 88
790	21	55790.1	.03	733.2 10:21:24 88
752	31	55751.5	.04	732.3 10:22:30 88
648	41	55648.0	.06	732.6 10:23:14 88
531	51	55530.9	.04	732.6 10:24:16 88
449	61	55448.7	.04	732.3 10:24:57 88
308	71	55307.6	.05	732.1 10:25:38 88
793	81	55793.4	.04	732.0 10:26:43 88
600	91	55599.9	.05	731.2 10:27:26 88
388	101	55388.3	.05	731.0 10:28:23 88

Scales @ 110m
??
road in

Line	8	Date	6 JUN 3	#62
POSITION	FIELD	ERR	DRIFT	TIME DS CULT
023	10	55023.0	.05	730.3 10:31:30 88
2481	20	57481.0	.10	730.4 10:33:28 88
557	30	55556.5	.06	730.3 10:34:03 86
193	40	55193.4	.04	730.5 10:35:09 88
045	50	55044.7	.05	730.6 10:36:01 88
121	60	55120.7	.04	730.0 10:38:11 88
027	70	55027.3	.05	730.9 10:39:12 88
021	80	55028.7	.04	731.6 10:39:56 88
040	90	55040.2	.05	732.3 10:40:56 88

Scales at 100m on plan
longer 80m??

Line	9	Date	6 JUN 3	#71
POSITION	FIELD	ERR	DRIFT	TIME DS CULT
282	10	55281.7	.04	732.5 10:42:32 88
340	20	55340.1	.05	731.3 10:45:01 88
200	30	55199.8	.04	730.9 10:45:46 88
112	40	55111.9	.04	730.5 10:46:33 88
077	50	55077.4	.05	730.3 10:47:08 88
085	60	55084.5	.05	730.4 10:48:05 88
077	70	55076.9	.04	730.7 10:48:56 88
176	80	55176.3	.04	730.9 10:49:41 88
278	90	55277.9	.05	730.6 10:50:50 88
381	100	55380.8	.04	730.5 10:52:16 88
365	110	55365.0	.05	730.4 10:52:57 88
391	120	54608.5	.06	730.0 10:53:52 88
143	130	55142.7	.04	729.7 10:54:28 88

✓

Line	10	Date	6 JUN 3	#84
POSITION	FIELD	ERR	DRIFT	TIME DS CULT
10	✓ 55181.8	.05	728.1	10:56:54 88
20	✓ 55199.7	.04	728.1	10:59:14 88
30	✓ 55254.2	.04	728.7	11:00:18 88
40	✓ 55295.1	.05	729.1	11:01:18 88
50	✓ 55245.0	.05	728.7	11:02:11 88
60	✓ 55185.1	.04	729.0	11:03:40 88
70	✓ 55170.8	.04	729.6	11:04:38 88

Readings include only 60m
70m on plan

Line	11	Date	6 JUN 3	#91
POSITION	FIELD	ERR	DRIFT	TIME DS CULT
10	✓ 55170.2	.04	729.1	11:06:18 88
20	55172.3	.04	729.4	11:08:18 88
30	55281.8	.06	729.2	11:09:13 88

JUN6CORR.DMP

40 55426.3[✓].04 729.1 11:09:52 88
 50 55797.5[✓].03 729.0 11:10:37 88

Line	52	Date	6	JUN	3	#96	
POSITION	FIELD	ERR	DRIFT	TIME	DS	CULT	
4855	10	59854.7	.13	715.7	12:18:21	85	
669	20	55668.9	.08	715.8	12:20:56	84	
03	30	55003.4	.05	717.5	12:22:19	88	
-50	40	54949.6	.04	718.5	12:23:31	88	
50	50	55050.0	.05	717.7	12:24:33	88	
131	60	55130.5	.04	719.5	12:27:08	88	
194	70	55193.8	.04	720.4	12:27:59	88	
254	80	55254.0	.05	720.3	12:28:34	88	
356	90	55355.9	.05	720.6	12:29:12	88	
475	100	55474.9	.04	720.5	12:30:38	88	
627	110	55626.8	.04	720.7	12:33:38	88	
675	120	55674.6	.04	720.4	12:35:00	88	
236	130	55736.4	.04	720.1	12:36:09	88	
359	140	55858.8	.04	719.5	12:37:04	88	
903	150	55902.7	.03	719.7	12:38:01	88	

*One is 150m
 missing 1 reading?
 should be 16?*

Line	56	Date	6	JUN	3	#111	
POSITION	FIELD	ERR	DRIFT	TIME	DS	CULT	
905	10	55904.9	.04	719.4	12:40:37	88	
970	20	55970.4	.04	719.4	12:43:04	88	
1038	30	56038.1	.04	720.1	12:43:44	88	
1039	40	56038.5	.04	720.4	12:44:40	88	
1032	50	56031.5	.03	720.2	12:45:09	88	
959	60	55959.1	.03	720.7	12:45:59	88	
949	70	55948.8	.04	719.9	12:46:34	88	
286	80	55285.6	.05	719.3	12:47:24	88	
712	90	55711.9	.04	718.8	12:48:03	88	
514	100	55814.2	.04	718.0	12:48:35	88	
1173	110	56172.9	.03	716.1	12:49:30	88	
387	120	55387.2	.04	715.0	12:50:35	88	
785	130	55184.8	.04	715.5	12:51:39	88	
-20	140	54979.5	.04	717.1	12:52:40	88	
-35	150	54914.6	.04	716.9	12:53:25	88	
450	160	55449.8	.04	716.7	12:54:33	88	
550	170	55549.8	.04	716.8	12:55:42	88	
220	180	55220.2	.04	717.2	12:56:21	88	
076	190	55076.3	.05	717.3	12:57:10	88	

Line	57	Date	6	JUN	3	#130	
POSITION	FIELD	ERR	DRIFT	TIME	DS	CULT	
802	10	55802.0	.04	715.6	13:01:14	88	
460	20	55460.1	.04	715.5	13:03:49	88	
252	30	55252.4	.05	716.6	13:04:42	88	
114	40	55113.7	.05	716.8	13:05:25	88	
180	50	55179.9	.04	717.6	13:06:10	88	
115	60	55114.9	.04	718.3	13:07:48	88	
072	70	55071.9	.04	718.9	13:08:24	88	
-04	80	54996.3	.05	720.6	13:09:03	88	
-06	90	54994.3	.05	719.4	13:09:32	88	
123	100	55123.4	.04	717.3	13:10:49	88	
085	110	55085.1	.05	717.4	13:11:26	88	
184	120	55183.6	.04	718.0	13:12:09	88	
691	130	55691.2	.05	718.9	13:13:00	88	
712	140	55712.2	.04	719.7	13:13:42	88	
507	150	55506.9	.04	719.5	13:14:58	88	
1455	160	56455.1	.03	720.2	13:15:35	88	
1145	170	56145.2	.05	720.0	13:16:15	88	
857	180	55856.6	.05	720.3	13:16:53	88	
831	190	55830.8	.04	720.8	13:17:26	88	
860	200	55859.7	.03	720.8	13:18:36	88	
865	210	55865.1	.04	721.5	13:19:21	88	
889	220	55888.5	.04	722.3	13:20:36	88	
899	230	55899.1	.04	720.4	13:21:32	88	
885	240	55885.0	.04	720.7	13:22:24	88	

JUN6CORR.DMP

813	250	55812.6	.04	719.0	13:23:52	88
760	260	55760.4	.05	719.0	13:24:49	88
690	270	55690.2	.04	720.3	13:25:42	88
638	280	55638.0	.04	721.1	13:26:45	88
855	290	55855.0	.04	721.5	13:27:24	88
679	300	55678.8	.04	721.4	13:28:13	88
681	310	55680.8	.03	720.1	13:28:59	88
673	320	55673.3	.05	718.9	13:29:34	88
565	330	55565.2	.04	719.9	13:30:17	88
573	340	55573.1	.04	719.4	13:31:12	88
615	350	55615.1	.04	719.4	13:32:03	88
582	360	55581.9	.04	720.9	13:32:48	88
588	370	55588.1	.04	722.8	13:33:30	88
575	380	55574.7	.05	724.5	13:34:17	88
521	390	55521.4	.05	725.6	13:35:16	88
502	400	55501.6	.04	726.2	13:36:01	88
488	410	55488.3	.04	725.0	13:36:56	88

Line 58 Date 6 JUN 3 #171

POSITION	FIELD	ERR	DRIFT	TIME	DS	CULT
334	10	55333.6	.04	721.9	13:41:55	88
373	20	55372.8	.05	720.4	13:45:17	88
424	30	55423.8	.04	720.4	13:46:02	88
432	40	55432.1	.04	720.8	13:46:42	88
430	50	55430.3	.04	722.5	13:47:25	88
454	60	55454.0	.04	724.2	13:48:03	88
412	70	55411.6	.04	724.3	13:48:39	88
419	80	55418.8	.04	726.0	13:49:08	88
449	90	55449.1	.04	725.5	13:49:44	88
466	100	55465.9	.04	725.5	13:50:15	88
480	110	55479.7	.04	725.8	13:51:10	88
518	120	55517.8	.04	724.9	13:52:23	88
572	130	55572.2	.04	724.5	13:53:02	88
445	140	55445.3	.04	724.4	13:53:56	88
471	150	55470.9	.04	723.6	13:54:32	88
515	160	55514.8	.04	723.8	13:55:06	88
620	170	55620.2	.04	723.5	13:55:48	88
763	180	55763.1	.04	723.5	13:56:28	88
784	190	55784.0	.04	723.5	13:57:13	88

Line 55 Date 6 JUN 3 #190

POSITION	FIELD	ERR	DRIFT	TIME	DS	CULT
500	10	55500.0	.04	722.6	14:05:27	88
601	20	55600.9	.04	722.4	14:07:35	88
792	30	55791.9	.04	722.1	14:08:16	88
895	40	55895.0	.03	722.3	14:09:03	88
884	50	55884.4	.03	721.9	14:09:37	88
731	60	55730.7	.03	722.1	14:10:20	88
718	70	55718.3	.04	722.2	14:11:04	88
769	80	55768.7	.04	722.2	14:11:35	88
087	90	55086.8	.05	722.1	14:12:30	88
370	100	55370.3	.04	722.3	14:13:10	88
1093	110	56092.7	.04	722.1	14:13:47	88
898	120	55898.0	.05	722.6	14:14:26	88
561	130	55560.6	.04	723.2	14:17:57	88
1211	140	56210.5	.04	724.1	14:19:10	88
1494	150	56494.3	.03	724.8	14:20:04	88
1540	160	56539.9	.04	724.8	14:20:43	88
1292	170	56292.3	.05	724.9	14:21:26	88
1118	180	56118.3	.04	725.7	14:22:06	88
349	190	55349.1	.04	725.2	14:22:53	88
223	200	54976.6	.04	725.3	14:23:41	88
271	210	54729.4	.06	725.2	14:24:25	88
135	220	55135.3	.04	725.4	14:25:09	88
045	230	55045.4	.04	725.5	14:25:51	88
191	240	54808.8	.05	725.7	14:26:33	88

Line 53 Date 6 JUN 3 #214
 POSITION FIELD ERR DRIFT TIME DS CULT

JUN6CORR.DMP

10	56491.2	.04	722.1	14:58:11	88
435 20	55435.2	.04	724.3	15:01:30	88
122 30	54968.3	.05	725.0	15:02:03	88
122 40	55040.4	.04	725.3	15:02:46	88
122 50	54922.7	.04	725.8	15:03:49	88
125 60	55124.5	.04	725.5	15:04:38	88
211 70	55211.1	.04	726.4	15:05:43	88
390 80	55389.8	.04	726.2	15:06:34	88
1136 90	56137.9	.08	727.0	15:07:27	88
100 100	56656.8	.03	728.5	15:08:12	88
110 110	56289.5	.04	729.9	15:09:18	88
120 120	55808.7	.05	730.7	15:10:26	88
130 130	55402.9	.04	731.3	15:11:28	88
140 140	54117.4	.06	732.3	15:12:18	88
150 150	52378.7	.11	734.0	15:13:06	88
160 160	54010.6	.05	735.5	15:16:06	88
170 170	55981.9	.05	733.8	15:16:40	88
180 180	57962.3	.06	732.9	15:17:18	88

← not inputted July 21/03

Checksum Error! Record #232

Line	0	Date	6 JUN 3	#232		
POSITION	FIELD	ERR	DRIFT	TIME	DS	CULT
0	0.0	.00	0.0	0:00:00	0	0.0

EOF

00

File Name: Jim's \ Seyward 2003 \ Conjugate new
 (Showing mag lines.)

OMNI-PLUS Tie-line MAG/VLF V12N Ser #418141
TOTAL FIELD DATA (uncorrected)

Reference field: 55000.0
Datum subtracted: 0.0 Date 7 JUN 3
Operator: 3000
Records: 204
Bat: 17.3 Volt Lithium: 3.48 volt
Last time update: 6/06 8:18:00
Start of print: 6/07 16:05:41

Line 53 Date 7 JUN 3 #1
POSITION FIELD ERR DRIFT TIME DS CULT
190 56369.7 .00 0.0 8:33:02 88

55000
Line 41 Date 7 JUN 3 #2
POSITION FIELD ERR DRIFT TIME DS CULT
4947 10 59946.5 .38 0.0 8:46:43 78 65
7007 20 62007.1 2.9 0.0 8:48:26 46 55
5321 30 60320.9 1.1 0.0 8:53:17 48 56
4026 40 59026.6 .18 0.0 8:54:48 78
4034 50 59034.2 .06 0.0 8:55:38 88
4844 60 59844.2 .08 0.0 8:56:21 78
7322 70 62321.6 .16 0.0 8:57:00 78 65
7403 80 62902.6 .17 0.0 8:57:47 88 55
5287 90 60286.5 .04 0.0 8:58:33 87 56
4753 100 59753.3 .05 0.0 8:59:18 88

← Should have been 4.41

Line 42 Date 7 JUN 3 #12
POSITION FIELD ERR DRIFT TIME DS CULT
452 10 55461.7 .05 0.0 9:02:27 87
749 20 55848.6 .19 0.0 9:06:08 78 55
2197 40 59197.3 .38 0.0 9:10:03 68 55
1112 50 56162.1 .05 0.0 9:12:12 87 56
1695 60 56674.7 .14 0.0 9:13:11 88 55
2129 70 57727.7 .02 0.0 9:14:03 88
2575 80 58594.6 .06 0.0 9:15:04 88 65
115 90 58595.4 .03 0.0 9:16:26 88 55
2419 100 57419.1 .03 0.0 9:17:22 88
1958 110 56958.3 .03 0.0 9:18:20 88
2349 120 57348.7 .03 0.0 9:20:00 88
2641 130 57641.0 .03 0.0 9:21:47 88
2764 140 57764.3 .03 0.0 9:22:43 88
2359 150 57359.2 .02 0.0 9:23:46 88
2026 160 57026.4 .03 0.0 9:25:04 88
2097 170 57097.0 .03 0.0 9:26:22 88
1772 180 56872.4 .03 0.0 9:27:23 88
1739 190 56738.8 .03 0.0 9:28:15 88
1599 200 56697.8 .39 0.0 9:29:04 88

Line 43 Date 7 JUN 3 #31
POSITION FIELD ERR DRIFT TIME DS CULT
2251 10 57251.0 .04 0.0 9:42:11 88
2440 20 57439.5 .02 0.0 9:45:54 88
2575 30 57575.4 .02 0.0 9:47:29 88
2169 40 57769.4 .04 0.0 9:48:09 88
2787 50 57767.1 .03 0.0 9:49:40 88
2503 60 57503.0 .03 0.0 9:50:41 88
2417 70 57416.5 .03 0.0 9:52:52 88 65
1881 80 56880.6 .03 0.0 9:54:15 88 55
770 90 55769.9 .05 0.0 9:54:57 88
-240 100 54760.3 .04 0.0 9:55:40 88
-1297 110 53703.1 .05 0.0 9:56:35 88
-679 120 54321.4 .03 0.0 9:57:24 88
-544 130 54456.1 .03 0.0 9:58:05 88

JUN7REMR.DMP

-164	140	54836.0	.03	0.0	9:58:41	88
691	150	55690.6	.05	0.0	9:59:37	88
1093	160	56092.8	.06	0.0	10:00:22	88
1382	170	56381.7	.05	0.0	10:01:04	88
778	180	55778.4	.05	0.0	10:01:44	88
750	190	55750.1	.04	0.0	10:02:23	88
894	200	55893.9	.07	0.0	10:03:05	88
1091	210	56091.4	.04	0.0	10:03:44	88
903	220	55902.8	.03	0.0	10:04:17	88

Line	44	Date	7	JUN	3	#53		
POSITION	FIELD	ERR	DRIFT	TIME	DS	CULT		
1121	10	56121.1	.03	0.0	10:11:50	88		
948	20	55947.9	.04	0.0	10:16:25	88		
1027	30	56026.5	.04	0.0	10:17:17	88		
1173	40	56172.9	.03	0.0	10:17:56	88		
1007	50	56007.4	.03	0.0	10:18:40	88		
847	60	55846.8	.03	0.0	10:19:39	88		
732	70	55731.5	.04	0.0	10:20:24	88		
553	80	55553.4	.03	0.0	10:21:01	88		
-63	90	54937.3	.04	0.0	10:21:24	88		
-43	100	54956.6	.04	0.0	10:22:03	88		
-369	110	54630.7	.03	0.0	10:22:37	88		
54	120	55054.3	.04	0.0	10:23:13	88		
226	130	55226.1	.04	0.0	10:23:42	88		
653	140	55652.7	.03	0.0	10:24:26	88		
2109	150	57108.8	.03	0.0	10:25:06	88		
2469	160	57669.4	.02	0.0	10:26:00	88		
2790	170	57790.2	.03	0.0	10:27:41	88		
3003	180	58002.8	.02	0.0	10:28:54	88		
3288	190	58288.1	.03	0.0	10:29:57	88		
3178	200	58178.2	.03	0.0	10:31:07	88		
3046	210	58045.7	.03	0.0	10:34:22	88		
2820	220	57879.7	.02	0.0	10:35:08	88		
2451	230	57451.3	.03	0.0	10:36:25	88		
2806	240	57805.9	.03	0.0	10:40:21	88		

Line	45	Date	7	JUN	3	#77		
POSITION	FIELD	ERR	DRIFT	TIME	DS	CULT		
1294	10	56293.9	.03	0.0	10:58:16	88		
1217	20	56217.3	.03	0.0	11:01:19	88		
1117	30	56116.7	.03	0.0	11:02:16	88		
1077	40	56057.3	.03	0.0	11:04:23	88		
968	50	55967.6	.03	0.0	11:05:07	88		
892	60	55881.7	.03	0.0	11:06:03	88		
785	70	55785.8	.03	0.0	11:06:48	88		
462	80	55461.8	.04	0.0	11:07:45	88		
120	90	55119.9	.03	0.0	11:08:32	88		
608	100	55608.0	.03	0.0	11:09:57	88		
604	110	55603.9	.03	0.0	11:10:49	88		
612	120	55611.8	.04	0.0	11:11:29	88		
1572	130	56578.1	.05	0.0	11:12:32	88		
2409	140	57407.5	.06	0.0	11:13:51	88		
3056	150	58055.6	.02	0.0	11:15:43	88		
3995	160	58995.1	.03	0.0	11:16:54	88		
4253	170	59252.8	.03	0.0	11:17:59	88		
2721	180	58721.2	.03	0.0	11:20:19	88	56	
3044	190	58046.3	.03	0.0	11:22:02	88	55	

Line	46	Date	7	JUN	3	#96		
POSITION	FIELD	ERR	DRIFT	TIME	DS	CULT		
3328	10	58327.9	.03	0.0	11:28:45	88		
4271	20	59270.5	.03	0.0	11:34:55	88		
4902	30	59901.6	.03	0.0	11:36:03	88	56	
4074	40	59073.8	.04	0.0	11:37:36	88		
3032	50	58031.8	.04	0.0	11:38:32	88		
1757	60	56757.2	.05	0.0	11:39:51	88	55	
898	70	55897.6	.04	0.0	11:41:02	88		
1239	80	56239.4	.03	0.0	11:42:21	88		

JUN7REMR.DMP

451	90	55451.3	.04	0.0	11:43:22	88
705	100	55725.1	.03	0.0	11:44:15	88
603	110	55623.3	.04	0.0	11:44:54	88
695	120	55675.0	.04	0.0	11:45:45	88
866	130	55866.1	.03	0.0	11:46:19	88
970	140	55969.6	.03	0.0	11:46:59	88
1007	150	56001.6	.04	0.0	11:47:38	88
1057	160	56056.5	.03	0.0	11:48:25	88
1117	170	56111.9	.03	0.0	11:49:03	88
1182	180	56182.3	.03	0.0	11:49:48	88
1328	190	56328.2	.03	0.0	11:50:26	88
1228	200	56227.7	.03	0.0	11:50:56	88

Line 47 Date 7 JUN 3 #116

POSITION	FIELD	ERR	DRIFT	TIME	DS	CULT
1448	10	56448.3	.04	0.0	11:53:54	88
1511	20	56311.4	.03	0.0	11:58:35	88
1255	30	56254.7	.04	0.0	11:59:23	88
1193	40	56193.1	.03	0.0	12:00:12	88
1113	50	56112.6	.04	0.0	12:00:56	88
1054	60	56054.4	.04	0.0	12:02:18	88
1035	70	56034.6	.03	0.0	12:03:04	88
982	80	55982.1	.03	0.0	12:03:41	88
970	90	55969.9	.03	0.0	12:04:34	88
958	100	55957.6	.03	0.0	12:05:23	88
942	110	55942.2	.03	0.0	12:06:10	88
923	120	55921.9	.04	0.0	12:06:55	88
959	130	55958.5	.03	0.0	12:08:39	88
1102	140	56102.2	.03	0.0	12:09:29	88
1304	150	56303.6	.03	0.0	12:10:45	88
1603	160	56603.4	.02	0.0	12:12:30	88
1875	170	56874.9	.02	0.0	12:13:41	88
2015	180	57015.3	.03	0.0	12:22:22	88
2053	190	57053.4	.03	0.0	12:23:33	88
1951	200	56950.5	.04	0.0	12:24:55	88
1802	210	56801.6	.03	0.0	12:25:49	88
1779	220	56778.5	.03	0.0	12:26:55	88

Line 48 Date 7 JUN 3 #138

POSITION	FIELD	ERR	DRIFT	TIME	DS	CULT
2015	10	57016.4	.03	0.0	13:11:39	88
2155	20	57155.0	.03	0.0	13:13:58	88 65
1835	30	56835.1	.04	0.0	13:15:09	88 55
1419	40	56419.0	.03	0.0	13:16:35	88 65
2085	50	57085.3	.04	0.0	13:18:26	88 55
1874	60	56874.3	.04	0.0	13:19:41	88
1731	70	56731.3	.03	0.0	13:20:28	88
1511	80	56511.0	.03	0.0	13:21:14	88
1396	90	56395.9	.03	0.0	13:22:10	88
1400	100	56400.3	.02	0.0	13:22:53	88
1375	110	56374.9	.03	0.0	13:23:35	88 85
1655	120	56655.5	.03	0.0	13:25:51	88 55
1402	130	56441.8	.03	0.0	13:27:08	88
1481	140	56480.6	.03	0.0	13:29:34	88 65
1355	150	56354.9	.03	0.0	13:30:46	88 55
1339	160	56339.2	.03	0.0	13:31:59	88
1319	170	56319.1	.03	0.0	13:33:13	88
1314	180	56314.3	.03	0.0	13:34:06	88
1319	190	56318.6	.03	0.0	13:36:04	88
1271	200	56271.0	.03	0.0	13:37:26	88
1252	210	56251.9	.04	0.0	13:38:55	88
1223	220	56222.8	.03	0.0	13:39:35	88
1268	230	56267.5	.03	0.0	13:40:25	88
1205	240	56205.0	.03	0.0	13:41:18	88 65
1275	250	56275.4	.03	0.0	13:42:13	88 55
1256	260	56256.1	.03	0.0	13:42:57	88
1258	270	56256.2	.03	0.0	13:44:20	88
1300	280	56300.3	.03	0.0	13:45:26	88
1268	290	56268.2	.03	0.0	13:46:58	88

300 56314.8 .03 0.0 13:47:54 88

Line	49	Date	7	JUN	3	#168		
POSITION	FIELD	ERR	DRIFT	TIME	DS	CULT		
5019	10	60018.6	.05	0.0	14:07:56	88		
12818	20	67818.5	.55	0.0	14:11:18	77		
7975	30	62975.3	2.0	0.0	14:13:04	67		
2977	40	57876.8	.04	0.0	14:14:00	86	56	
2060	50	57059.8	.03	0.0	14:15:12	88	55	
1517	60	56616.6	.04	0.0	14:15:59	88		
1709	70	56709.2	.03	0.0	14:16:48	88		
1394	80	56394.1	.03	0.0	14:17:48	88		
1299	90	56297.6	.02	0.0	14:18:47	88		
1322	100	56322.2	.04	0.0	14:19:47	88		
1260	110	56260.3	.02	0.0	14:20:29	88		
1227	120	56226.5	.03	0.0	14:21:14	88		
1180	130	56179.5	.03	0.0	14:21:55	88		
1140	140	56140.4	.04	0.0	14:22:37	88		
1049	150	56047.9	.03	0.0	14:23:38	88		
861	160	55861.3	.03	0.0	14:24:08	88		
519	170	55519.1	.04	0.0	14:24:58	88		
1350	180	56350.1	.04	0.0	14:25:54	88	65	

Line	50	Date	7	JUN	3	#186		
POSITION	FIELD	ERR	DRIFT	TIME	DS	CULT		
189	10	55187.9	.05	0.0	14:36:16	88		
734	20	55733.8	.03	0.0	14:38:45	88		
919	30	55918.6	.03	0.0	14:39:26	88		
1025	40	56025.2	.03	0.0	14:40:03	88		
1112	50	56111.5	.03	0.0	14:40:48	88		
1149	60	56149.0	.03	0.0	14:41:24	88		
1171	70	56171.3	.03	0.0	14:42:07	88		
1134	80	56133.7	.04	0.0	14:42:37	88		
1279	90	56278.6	.03	0.0	14:43:15	88		
958	100	55957.5	.04	0.0	14:43:50	88		
945	110	55944.9	.04	0.0	14:44:30	88		
931	120	55930.9	.04	0.0	14:45:04	88		
898	130	55895.9	.03	0.0	14:45:49	88		
842	140	55842.3	.03	0.0	14:46:42	88		
773	150	55722.6	.03	0.0	14:48:19	88		
707	160	55706.5	.03	0.0	14:48:56	88	65	
267	170	55267.2	.04	0.0	14:49:26	88	55	
294	180	55293.5	.03	0.0	14:50:10	88		
728	190	55723.1	.03	0.0	14:50:59	88		

EOF

□□

JUN9CORR

OMNI-IV Tie-line MAG Ser #418141
 TOTAL FIELD DATA (Base stn. corrected)

Reference field: 55000.0
 Datum subtracted: 0.0 Date 9 JUN 3
 Operator: 3000
 Records: 169
 Bat: 17.2 volt Lithium: 3.48 Volt
 Last time update: 6/09 8:51:00
 Start of print: 6/09 18:04:14

Base stn. Pos: 1 Line: -1
 Last time update: 6/09 8:23:00
 Start of print: 6/09 18:04:27

Line	19	Date	9 JUN 3	#1
POSITION	FIELD	ERR	DRIFT	TIME DS CULT
- 278	10	54721.8	.03	788.1 9:09:19 88
- 432	20	54568.4	.03	787.1 9:16:46 88
- 627	30	54373.4	.03	787.4 9:17:37 88
- 844	40	54156.4	.03	787.8 9:18:05 88
- 1476	50	53504.1	.03	789.6 9:20:25 88
- 2073	60	52926.5	.04	789.8 9:21:07 88
- 4331	70	50668.5	.13	789.8 9:21:51 78
- 7864	80	47136.1	1.2	790.4 9:22:27 45
- 15354	90	39646.4	1.3	791.2 9:23:20 68

Line	20	Date	9 JUN 3	#10
POSITION	FIELD	ERR	DRIFT	TIME DS CULT
- 1823	10	53176.6	.21	790.9 9:27:46 73
- 689	20	54310.6	.05	791.0 9:29:39 88
- 700	30	54299.6	.05	790.9 9:30:03 88
- 800	40	54396.1	.03	790.9 9:30:28 88

Line	21	Date	9 JUN 3	#14
POSITION	FIELD	ERR	DRIFT	TIME DS CULT
- 2776	10	52223.6	.05	789.7 9:43:24 88
- 3129	20	51870.8	.28	789.5 9:46:59 88
147	30	55666.7	2.2	789.8 9:47:39 68
3452	40	58451.5	.07	790.0 9:48:18 88
3002	50	58001.9	.04	790.1 9:49:09 88
2848	60	57866.0	.05	789.8 9:49:50 88
2808	70	57605.8	.03	789.6 9:50:17 88
2008	80	57005.6	.03	789.3 9:50:53 88
1573	90	56513.1	.03	789.7 9:53:50 88
1043	100	56043.0	.03	790.0 9:54:23 88
892	110	55892.0	.03	790.4 9:55:24 88
838	120	55837.6	.02	790.5 9:56:07 88
- 170	130	54829.5	.48	789.5 9:58:12 78
1134	140	56333.7	.02	789.6 9:58:53 88
777	150	55976.5	.02	789.7 9:59:28 88
783	160	55933.1	.03	789.0 10:01:15 88
781	170	55930.6	.12	788.9 10:02:01 88
874	180	55891.9	.03	788.7 10:02:42 88
295	190	55897.6	.03	788.6 10:03:15 88
1304	200	56305.7	.08	788.9 10:04:02 88
704	210	55757.1	.03	787.8 10:05:04 88
722	220	55727.9	.02	787.0 10:05:40 88
824	230	55689.3	.02	786.5 10:06:22 88
701	240	55708.6	.07	786.7 10:07:07 88
678	250	55677.7	.02	786.8 10:08:00 88
681	260	55689.1	.02	787.2 10:09:09 88
482	270	55482.7	.02	787.5 10:09:59 88
208	280	55348.0	.03	787.6 10:10:29 88
202	290	55625.8	.02	787.1 10:11:31 88

← last rdg does not fit on line.

JUN9CORR

Line	22	Date	9	JUN	3	#43		
POSITION	FIELD	ERR	DRIFT	TIME	DS	CULT		
687	10	55687.3	.02	784.9	10:17:24	88		
695	20	55694.6	.02	783.4	10:19:45	88		
728	30	55728.2	.02	783.1	10:20:21	88		
731	40	55791.1	.03	782.9	10:21:02	88		
780	50	55679.5	.02	782.7	10:21:33	88		
818	60	55397.7	.03	782.2	10:22:20	88		
22470		55224.2	.03	781.8	10:23:05	88		
168	80	54832.5	.03	781.5	10:23:38	88		
739	90	54262.2	.03	781.0	10:24:12	88		
1293	100	53706.9	.03	778.9	10:26:18	88		
1558	110	53442.3	.03	778.2	10:27:01	88		
1306	120	53694.0	.02	777.5	10:28:32	88		
1168	130	53832.0	.05	777.3	10:29:04	88		
3897	140	51102.7	.50	776.9	10:29:36	68		
1524	150	53476.2	.03	776.5	10:30:12	88		
652	160	54347.6	.02	776.1	10:30:50	88		
278	170	54721.9	.03	775.7	10:31:21	88		

Line	23	Date	9	JUN	3	#60		
POSITION	FIELD	ERR	DRIFT	TIME	DS	CULT		
760	10	54239.6	.03	769.4	10:38:40	88		
1248	20	53752.1	.03	767.7	10:41:21	88		
4224	30	50776.4	.18	767.1	10:41:51	78		
2847	40	52053.2	.05	767.5	10:42:53	88		
698	50	54301.6	.04	767.3	10:43:23	88		
429	60	54571.0	.03	766.6	10:44:00	88		
66	70	55066.3	.03	765.8	10:44:48	88		
108	80	54892.2	.03	765.1	10:45:24	88		
115	90	54884.7	.03	766.6	10:47:29	88		
123	100	55123.2	.03	764.8	10:48:57	88		
249	110	55318.7	.03	763.9	10:50:05	88		
633	120	55532.6	.03	765.1	10:51:07	88		

Line	24	Date	9	JUN	3	#72		
POSITION	FIELD	ERR	DRIFT	TIME	DS	CULT		
1363	10	53637.1	.09	768.2	10:59:47	88		
1114	20	53885.7	.03	765.7	11:07:50	88		
1072	30	53927.7	.03	765.8	11:08:24	88		
1690	40	53309.8	.08	765.7	11:09:18	88		
1715	50	53284.9	.04	765.8	11:09:54	88		
2320	60	52679.7	.04	765.9	11:10:33	88		
2756	70	52243.6	.04	765.9	11:11:26	88		
2536	80	52463.6	.03	765.4	11:12:12	88		
1557	90	53433.4	.03	764.1	11:13:22	88		
256	100	54144.2	.03	764.4	11:14:36	88		
207	110	54792.6	.03	764.8	11:15:39	88		
307	120	55307.1	.03	763.7	11:16:37	88		
598	130	55597.9	.03	762.7	11:17:36	88		

Line	25	Date	9	JUN	3	#85		
POSITION	FIELD	ERR	DRIFT	TIME	DS	CULT		
811	10	54189.3	.04	764.8	11:20:59	88		
1317	20	53683.4	.04	765.0	11:23:41	88		
3005	30	51995.0	.06	764.8	11:24:56	88		
2428	40	52574.2	.03	765.1	11:25:32	88		
2033	50	52966.7	.02	765.5	11:26:10	88		
1153	60	53846.8	.03	765.7	11:26:49	88		
595	70	54404.5	.03	765.9	11:27:26	88		
562	80	54432.4	.04	766.2	11:28:00	88		
1134	90	53861.3	.03	764.9	11:28:27	88		
26	100	54963.7	.04	763.7	11:28:50	88		
368	110	54635.0	.03	763.4	11:29:14	88		

Line	26	Date	9	JUN	3	#96		
POSITION	FIELD	ERR	DRIFT	TIME	DS	CULT		
342	10	55341.6	.42	762.5	11:40:27	88		

JUN9CORR

- 5	20	54994.7	.07	761.4	11:42:43	88
277	30	55276.7	.05	761.1	11:43:06	88
752	40	55751.6	.05	761.0	11:43:30	88
2199	50	57199.1	.32	761.0	11:43:53	88
1490	60	56490.1	.46	760.7	11:44:15	58
107	70	55107.1	.05	760.4	11:44:38	88
299	80	55299.3	.03	760.0	11:45:01	88
180	90	55179.8	.03	759.8	11:45:22	88
190	100	55189.5	.03	759.2	11:46:18	88
345	110	55344.7	.03	758.9	11:46:44	88
207	120	55207.0	.03	758.5	11:47:08	88
176	130	55195.7	.03	757.9	11:47:36	88
244	140	55243.9	.03	756.5	11:48:56	88
282	150	55282.2	.03	756.6	11:49:23	88
211	160	55211.0	.05	757.0	11:50:00	88
220	170	55220.3	.03	756.6	11:50:27	88
722	180	55781.9	.04	756.1	11:50:58	88
445	190	55445.4	.04	755.8	11:51:33	88

oil road??
not entered
7/2/07/03

Line 27 Date 9 JUN 3 #115

POSITION	FIELD	ERR	DRIFT	TIME	DS	CULT
30	10	55030.4	.03	749.3	12:44:45	88
119	20	55119.0	.03	749.9	12:47:14	88
101	30	55101.4	.03	749.6	12:47:53	88
11	40	55011.2	.03	750.0	12:48:24	88
-42	50	54957.5	.03	750.7	12:48:58	88
8	60	55007.8	.05	749.0	12:49:59	88
-477	70	54523.0	.04	748.7	12:50:38	88
151	80	55151.1	.03	748.7	12:51:24	88
-25	90	54975.4	.04	749.5	12:52:31	88
68	100	55068.1	.03	749.9	12:52:57	88
118	110	55118.1	.03	750.0	12:53:26	88
261	120	55261.0	.03	749.9	12:53:56	88
163	130	55163.4	.22	749.7	12:54:30	78
177	140	55177.3	.03	749.6	12:55:02	88
562	150	55562.1	.03	751.2	12:56:15	88
865	160	55865.4	.03	751.7	12:56:54	88
3346	170	58348.0	.19	752.1	12:57:22	88
-1935	180	53064.8	.09	752.7	12:58:23	85
7193	190	64492.8	20.	752.6	12:58:51	32
1298	200	56298.2	1.1	752.4	13:00:06	44
990	210	55989.9	.05	752.9	13:00:34	88
390	220	55390.2	.03	753.5	13:01:02	88
72	230	55072.3	.03	753.5	13:01:30	88



Line 28 Date 9 JUN 3 #138

POSITION	FIELD	ERR	DRIFT	TIME	DS	CULT
-131	10	54869.2	.03	751.4	13:12:59	88
-738	20	54262.3	.04	757.7	13:16:11	88
-3388	30	51614.1	.20	757.8	13:17:29	78
-2403	40	52596.5	.04	757.6	13:19:49	88
-597	50	54403.0	.07	756.5	13:21:47	88
-954	60	54045.5	.04	756.7	13:22:25	88
-1804	70	53196.3	.21	756.8	13:23:00	88
-15	80	54984.9	.07	756.4	13:23:30	88
-9357	90	45642.5	4.4	756.1	13:23:55	32
-8873	100	46116.9	1.2	755.4	13:24:34	68
58	110	55058.2	3.2	754.1	13:25:45	34
8273	120	63272.7	2.5	753.5	13:26:20	42
-2466	130	52533.7	.41	752.4	13:27:09	54
3506	140	58505.5	.18	751.2	13:27:38	87
796	150	55796.3	.98	749.6	13:28:37	46
64	160	55063.5	.15	747.5	13:33:17	88
-367	170	54633.2	.04	747.9	13:33:52	88
-1068	180	53932.0	.08	748.0	13:35:01	88
670	190	55669.5	.04	748.0	13:35:39	88



Line 29 Date 9 JUN 3 #157

POSITION	FIELD	ERR	DRIFT	TIME	DS	CULT
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← 1 extra on line

Line	POSITION	FIELD	ERR	DRIFT	TIME	DS	CULT
10	54959.0	.03	752.5	13:43:57	88		
20	55020.0	.04	757.8	13:47:00	88		
30	58805.7	.52	758.9	13:47:41	58		
40	64464.9	69.	762.9	13:49:24	32		
50	50928.3	3.7	771.0	13:52:54	33		
60	53514.7	62.	772.5	13:58:38	32		
70	53996.9	.04	772.3	13:59:31	88		
80	52916.2	3.6	772.2	14:00:22	57		
90	61556.6	16.	773.1	14:02:18	23		
100	76922.3	5.0	772.7	14:02:56	33		
110	75091.2	88.	772.9	14:06:09	32		
120	74247.9	83.	773.1	14:08:10	22		
130	80335.7	91.	774.7	14:09:26	22		

JUN9CORR

*Not entered
(faulty readings).*

Checksum Error! Record #170

Line	0	Date	9 JUN 3	#170
POSITION	FIELD	ERR	DRIFT	TIME DS CULT
0	0.0	.00	0.0	0:00:00 0 0.0

EOF

00

OMNI-IV Tie-line MAG Ser #634358
TOTAL FIELD DATA (Tieline corrected)

Reference field: 55000.0
Datum subtracted: 50000.0 Date 10 JUN 3
Operator: 3000
Records: 196
Bat: 17.5 Volt Lithium: 3.48 volt
Last time update: 6/09 8:23:00
Start of print: 6/10 17:30:55

*⊖ in front of number
(only day registered -
settings are
different in Test Mode)*

*Subtract
number
5000*



Line	POSITION	FIELD	ERR	DRIFT	TIME	DS	CULT
-30							
624	-20	5624.2	.05	0.0	9:04:40	88	
1168	-30	6167.6	.07	0.0	9:06:01	88	
1281	-40	6281.4	.05	0.0	9:06:54	88	
1392	-50	6391.6	.05	0.0	9:07:37	87	
1391	-60	6381.4	.05	0.0	9:08:28	88	
1022	-70	6022.2	.05	0.0	9:09:12	88	
972	-80	5972.7	.05	0.0	9:10:13	88	

Line	POSITION	FIELD	ERR	DRIFT	TIME	DS	CULT
-31							
-316	-10	4684.4	.08	0.0	9:19:48	88	
-1963	-20	3036.6	.13	0.0	9:22:57	87	
405	-30	5404.7	1.7	0.0	9:23:33	46	
464	-40	5466.1	17.	0.0	9:24:35	32	
13504	-50	18504.0	2.6	0.0	9:25:07	43	
13626	-60	18626.2	9.2	0.0	9:25:42	43	
13646	-70	18646.1	6.1	0.0	9:26:19	42	
1696	-80	6696.3	.21	0.0	9:29:07	73	
-702	-90	4297.5	.35	0.0	9:29:40	86	
1901	-100	6800.5	.13	0.0	9:30:08	88	
1207	-110	6206.9	.05	0.0	9:30:39	88	
-970	-120	4030.1	.72	0.0	9:31:13	76	
-298	-130	4702.0	.06	0.0	9:31:47	88	

disregard these readings - location of stations questionable

Line	POSITION	FIELD	ERR	DRIFT	TIME	DS	CULT
-32							
724	-10	5723.7	.05	0.0	9:37:14	88	
773	-20	5773.1	.05	0.0	9:41:07	88	
2998	-30	7897.9	.13	0.0	9:42:06	88	
2205	-40	7204.5	19.	0.0	9:42:52	32	
1310	-50	6309.8	9.5	0.0	9:43:34	46	
-4337	-60	661.6	39.	0.0	9:44:09	43	
12512	-70	17512.3	28.	0.0	9:44:54	32	
12995	-80	17895.7	28.	0.0	9:46:28	42	

Line	POSITION	FIELD	ERR	DRIFT	TIME	DS	CULT
-33							
-1439	-10	3560.9	.43	0.0	9:50:23	53	
3291	-20	8290.8	32.	0.0	9:53:00	44	
-4165	-30	834.6	12.	0.0	9:53:24	53	
1492	-40	6491.5	9.4	0.0	9:53:47	55	
1196	-50	6185.9	2.4	0.0	9:54:44	36	
3807	-60	8506.9	.06	0.0	9:55:13	88	
146	-70	4854.3	.76	0.0	9:55:36	75	
-2013	-80	2987.3	.09	0.0	9:56:23	86	
-1145	-90	3855.1	.04	0.0	9:56:56	88	
947	-100	5947.1	.05	0.0	9:57:22	88	
796	-110	5796.1	.06	0.0	10:01:07	88	
756	-120	5755.8	.05	0.0	10:01:53	88	
742	-130	5946.3	.05	0.0	10:02:29	88	
971	-140	5888.3	.05	0.0	10:03:06	88	

100

JUL09MR #43

Line	-34	Date	10	JUN	3	DRIFT	TIME	DS	CULT
POSITION	FIELD	ERR							
634	-10	5633.9	.05	0.0	10:09:15	88			
522	-20	5522.2	.07	0.0	10:12:26	88			
623	-30	5623.8	.05	0.0	10:12:57	88			
1787	-40	6787.4	.19	0.0	10:13:40	78			
761	-50	5760.6	.21	0.0	10:14:46	78			
2794	-60	7793.6	.05	0.0	10:15:18	88			
5981	-70	10980.5	.07	0.0	10:16:07	86			
11356	-80	16356.3	.94	0.0	10:16:40	54			
5754	-90	10754.2	.33	0.0	10:17:10	63			
2274	-100	7273.8	.13	0.0	10:17:39	76			
-561	-110	4438.6	.12	0.0	10:18:13	85			
-297	-120	4703.2	.05	0.0	10:19:16	88			
172	-130	5172.1	.05	0.0	10:19:41	88			
694	-140	5694.3	.04	0.0	10:21:01	88			
911	-150	5910.6	.04	0.0	10:21:36	88			
900	-160	5899.7	.04	0.0	10:22:11	88			



Line -35 Date 10 JUN 3 #59

Line	-35	Date	10	JUN	3	DRIFT	TIME	DS	CULT
POSITION	FIELD	ERR							
896	-10	5896.1	.05	0.0	10:41:58	88			
935	-20	5935.4	.05	0.0	10:44:05	88			
1014	-30	6014.1	.05	0.0	10:44:37	88			
1634	-40	6634.4	.06	0.0	10:45:12	88			
889	-50	5889.0	.05	0.0	10:47:10	88			
914	-60	5913.9	.05	0.0	10:47:47	88			
1210	-70	6209.5	.05	0.0	10:48:09	88			
12244	-80	17243.6	59.	0.0	10:48:30	32			
12473	-90	18473.4	26.	0.0	10:49:28	42			
13564	-100	18584.2	8.8	0.0	10:50:30	53			
-676	-110	4374.4	.30	0.0	10:51:17	63			
530	-120	5529.9	.04	0.0	10:51:50	88			
816	-130	5815.8	.05	0.0	10:52:38	88			
934	-140	5933.8	.04	0.0	10:53:17	88			
910	-150	5907.8	.04	0.0	10:54:29	88			
826	-160	5825.5	.05	0.0	10:54:59	88			
727	-170	5727.4	.04	0.0	10:55:37	88			
809	-180	5808.6	.04	0.0	10:56:31	88			

Line -36 Date 10 JUN 3 #77

Line	-36	Date	10	JUN	3	DRIFT	TIME	DS	CULT
POSITION	FIELD	ERR							
885	-10	5884.6	.05	0.0	11:12:21	88			
1564	-20	6564.1	.05	0.0	11:14:38	88			
4219	-30	9217.6	.08	0.0	11:15:06	88			
11395	-40	16395.1	12.	0.0	11:15:54	55			
10144	-50	15144.0	21.	0.0	11:16:41	45			
-2852	-60	2147.7	3.2	0.0	11:17:44	32			
-674	-70	4326.0	.05	0.0	11:18:19	88			
5070	-80	10070.2	4.8	0.0	11:18:49	54			
-371	-90	4629.2	.15	0.0	11:19:16	74			
853	-100	5853.2	.04	0.0	11:19:42	88			
742	-110	5741.5	.05	0.0	11:20:14	88			
715	-120	5715.3	.05	0.0	11:21:08	88			
731	-130	5730.7	.04	0.0	11:21:47	88			
844	-140	5844.1	.05	0.0	11:22:39	88			
783	-150	5783.3	.04	0.0	11:23:24	88			

Line -37 Date 10 JUN 3 #92

Line	-37	Date	10	JUN	3	DRIFT	TIME	DS	CULT
POSITION	FIELD	ERR							
1264	-10	6264.2	.04	0.0	11:31:56	88			
659	-20	5658.8	.06	0.0	11:35:27	88			
3329	-30	8329.0	.15	0.0	11:37:24	88			
6544	-40	11544.1	.19	0.0	11:38:04	77			
2245	-50	7245.0	.15	0.0	11:38:51	74			
-1681	-60	3319.2	.85	0.0	11:39:27	85			
32	-70	5031.7	.05	0.0	11:41:35	88			
-19	-80	4981.4	.05	0.0	11:42:09	88			
409	-90	5409.1	.04	0.0	11:42:48	88			

-5000

JUL09MR

605	-100	5604.6	.05	0.0	11:43:32	88
574	-110	5673.8	.04	0.0	11:43:57	88
559	-120	5559.2	.05	0.0	11:44:25	88
543	-130	5542.7	.04	0.0	11:45:00	88
757	-140	5757.4	.04	0.0	11:46:26	88

Line	-38	Date	10	JUN	3	#106
POSITION	FIELD	ERR	DRIFT	TIME	DS	CULT
665	-10	5665.0	.05	0.0	12:32:14	88
500	-20	5499.8	.05	0.0	12:35:20	88
177	-30	5197.2	.04	0.0	12:35:53	88
137	-40	5137.4	.05	0.0	12:36:30	88
190	-50	5189.7	.05	0.0	12:37:21	88
422	-60	5421.8	.04	0.0	12:37:40	88
161	-70	5160.7	.05	0.0	12:38:01	88
435	-80	5434.7	.04	0.0	12:38:23	88
1531	-90	6530.6	.05	0.0	12:39:03	88
8	-100	5007.9	.18	0.0	12:39:34	87
-777	-110	4223.3	.07	0.0	12:40:15	87
-86	-120	4913.9	.04	0.0	12:40:59	88
272	-130	5272.0	.04	0.0	12:41:40	88
545	-140	5545.0	.04	0.0	12:43:17	88
541	-150	5540.6	.05	0.0	12:44:02	88
549	-160	5549.2	.06	0.0	12:44:35	88
622	-170	5621.7	.05	0.0	12:44:59	88

Line	-39	Date	10	JUN	3	#123
POSITION	FIELD	ERR	DRIFT	TIME	DS	CULT
634	-10	5634.1	.05	0.0	12:52:03	88
598	-20	5598.3	.05	0.0	12:55:49	88
1685	-30	6685.2	.05	0.0	12:56:36	88
3021	-40	8021.0	.04	0.0	12:57:15	88
6028	-50	11028.0	3.5	0.0	12:57:40	77
2305	-60	7305.4	.16	0.0	12:59:49	85
-114	-70	4885.5	.11	0.0	13:00:28	86
476	-80	5476.3	.07	0.0	13:00:59	88
125	-90	5124.9	.09	0.0	13:01:40	88
-6712	-100	287.9	7.6	0.0	13:03:12	74
-520	-110	4479.5	.10	0.0	13:03:56	86
37	-120	5037.2	.04	0.0	13:05:09	88
430	-130	5489.7	.05	0.0	13:05:50	88
500	-140	5500.3	.04	0.0	13:06:30	88
650	-150	5650.2	.05	0.0	13:07:06	88
799	-160	5798.5	.05	0.0	13:07:36	88
958	-170	5957.5	.04	0.0	13:08:27	88
924	-180	5924.2	.05	0.0	13:09:13	88

Line	-61	Date	10	JUN	3	#141
POSITION	FIELD	ERR	DRIFT	TIME	DS	CULT
1183	-10	6182.8	.04	0.0	13:22:52	88
1248	-20	6248.2	.05	0.0	13:23:53	88
1376	-30	6375.7	.04	0.0	13:25:41	88
1488	-40	6487.9	.05	0.0	13:26:15	88
1860	-50	6859.7	.05	0.0	13:26:51	88
3357	-60	8357.4	.08	0.0	13:27:22	88
10093	-70	15093.2	.35	0.0	13:27:51	74
8593	-80	13582.7	.08	0.0	13:30:13	88
2823	-90	7823.0	.31	0.0	13:31:16	74
559	-100	5559.2	.08	0.0	13:32:18	87
55	-110	5055.2	.07	0.0	13:32:55	88
431	-120	5431.3	.05	0.0	13:34:12	88
-487	-130	4513.1	.06	0.0	13:34:45	88
-753	-140	4246.6	.06	0.0	13:35:16	88
-47	-150	4952.8	.05	0.0	13:35:55	88
341	-160	5340.9	.08	0.0	13:36:49	88

Line	-62	Date	10	JUN	3	#157
POSITION	FIELD	ERR	DRIFT	TIME	DS	CULT
7741	-10	7741.4	.05	0.0	13:54:58	88

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JUL09MR						
3633	-20	8633.2	.04	0.0	13:59:56	88
3259	-30	8258.7	.13	0.0	14:00:52	88
1493	-40	6493.1	.07	0.0	14:01:58	86
824	-50	5823.5	.05	0.0	14:03:56	88
710	-60	5709.6	.21	0.0	14:04:38	78
34	-70	5033.8	.06	0.0	14:05:17	87
242	-80	5242.2	.05	0.0	14:05:52	88
-60	-90	4940.1	.05	0.0	14:06:32	88
-120	-100	4880.1	.05	0.0	14:07:08	88
54	-110	5053.9	.05	0.0	14:07:44	88

Line	-63	Date	10	JUN	3	#168		
POSITION	FIELD	ERR	DRIFT	TIME	DS	CULT		
7141	-10	6140.5	.04	0.0	14:29:44	88		
1192	-20	6191.7	.04	0.0	14:35:28	88		
1460	-30	6460.2	.05	0.0	14:35:59	88		
1383	-40	6383.4	.05	0.0	14:36:33	88		
1182	-50	6181.6	.04	0.0	14:37:23	88		
1228	-60	6227.7	.05	0.0	14:38:02	88		
1185	-70	6184.5	.04	0.0	14:38:40	88		
1339	-80	6339.2	.04	0.0	14:39:27	88		
1431	-90	6431.1	.04	0.0	14:40:08	88		
1565	-100	6565.1	.05	0.0	14:40:46	88		
1996	-110	6996.1	.04	0.0	14:41:33	88		
1945	-120	6945.2	.03	0.0	14:42:12	88		
1057	-130	6057.3	.05	0.0	14:44:27	88		
716	-140	5715.5	.06	0.0	14:45:09	88		
413	-150	5413.0	.06	0.0	14:47:44	88		
-51	-160	4949.2	.06	0.0	14:49:51	88		

Line	-64	Date	10	JUN	3	#184		
POSITION	FIELD	ERR	DRIFT	TIME	DS	CULT		
1342	-10	6341.9	.05	0.0	14:54:35	88		
1139	-20	6139.3	.05	0.0	14:56:46	88		
831	-30	5830.7	.05	0.0	14:57:20	88		
692	-40	5692.2	.05	0.0	14:58:02	88		
568	-50	5568.1	.05	0.0	14:58:38	88		
553	-60	5553.3	.06	0.0	14:59:02	88		

Line	-65	Date	10	JUN	3	#190		
POSITION	FIELD	ERR	DRIFT	TIME	DS	CULT		
959	-10	5958.9	.05	0.0	15:04:19	88		
1004	-20	6004.0	.05	0.0	15:06:43	88		
1022	-30	6021.9	.05	0.0	15:07:19	88		
1161	-40	6161.0	.05	0.0	15:08:08	88		
867	-50	5866.5	.05	0.0	15:08:41	87		
1195	-60	6194.9	.04	0.0	15:11:19	88		
1491	-70	6490.9	.04	0.0	15:12:01	88		

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JUN12REM

OMNI-PLUS Tie-line MAG/VLF V12N Ser #418141
TOTAL FIELD DATA (uncorrected)

Reference field: 55000.0
Datum subtracted: 0.0 Date 12 JUN 3
Operator: 3000
Records: 186
Bat: 17.0 Volt Lithium: 3.48 Volt
Last time update: 6/11 13:24:00
Start of print: 6/12 16:17:42

Line	65	Date	12 JUN 3	#1	
POSITION	FIELD	ERR	DRIFT	TIME DS CULT	
984	10	55983.5	.07	0.0	8:18:41 88
1074	20	56023.5	.03	0.0	8:20:36 88
1051	30	56051.0	.03	0.0	8:21:19 88
1056	40	56255.8	.03	0.0	8:22:08 88
992	50	55999.4	.03	0.0	8:22:44 88
1126	60	56185.5	.03	0.0	8:23:20 88
1505	70	56505.0	.03	0.0	8:24:09 88

Line	64	Date	12 JUN 3	#8	
POSITION	FIELD	ERR	DRIFT	TIME DS CULT	
1374	10	56374.1	.03	0.0	8:29:24 88
1053	20	56053.2	.03	0.0	8:31:04 88
785	30	55784.6	.03	0.0	8:31:34 88
650	40	55649.5	.03	0.0	8:32:12 88
476	50	55475.5	.03	0.0	8:32:50 88

Line	63	Date	12 JUN 3	#13	
POSITION	FIELD	ERR	DRIFT	TIME DS CULT	
1161	10	56160.8	.03	0.0	8:42:51 88
1038	20	56238.0	.02	0.0	8:44:30 88
1020	30	56620.0	.03	0.0	8:45:13 88
1379	40	56399.0	.03	0.0	8:45:47 88
1204	50	56203.8	.03	0.0	8:46:20 88
1250	60	56254.7	.03	0.0	8:46:53 88
1213	70	56212.7	.03	0.0	8:47:29 88
1379	80	56329.4	.03	0.0	8:48:08 88
1406	90	56405.5	.03	0.0	8:48:54 88
1576	100	56535.5	.02	0.0	8:49:28 88
1925	110	56825.2	.03	0.0	8:50:22 88
2020	120	57079.7	.02	0.0	8:50:58 88
1035	130	56034.5	.04	0.0	8:51:52 88
943	140	55943.3	.03	0.0	8:52:36 88
745	150	55725.4	.04	0.0	8:53:08 88
401	160	55458.5	.03	0.0	8:54:05 88

Line	62	Date	12 JUN 3	#29	
POSITION	FIELD	ERR	DRIFT	TIME DS CULT	
2772	10	57771.7	.03	0.0	8:57:53 88 65
3839	20	58839.1	.03	0.0	9:00:04 88 55
3197	30	58186.5	.03	0.0	9:00:59 88
1521	40	56581.0	.04	0.0	9:01:39 88
286	50	55836.3	.03	0.0	9:02:19 88
105	60	54895.1	.28	0.0	9:03:00 88
98	70	55087.9	.04	0.0	9:03:37 88
269	80	55265.1	.03	0.0	9:04:11 88
13	90	54937.3	.03	0.0	9:04:49 88
100	100	54917.1	.02	0.0	9:05:26 88
98	110	55098.2	.03	0.0	9:06:01 88
272	120	55271.6	.04	0.0	9:06:44 88

Line	61	Date	12 JUN 3	#41
POSITION	FIELD	ERR	DRIFT	TIME DS CULT

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1229	10	56229.3	.03	0.0	9:19:07	88	
1272	20	56272.4	.03	0.0	9:22:04	88	
1369	30	56369.2	.02	0.0	9:23:00	88	
1466	40	56466.0	.03	0.0	9:23:42	88	85
1631	50	56630.6	.04	0.0	9:24:16	88	65
2892	60	58892.2	.08	0.0	9:25:01	88	55
11236	70	66235.7	1.0	0.0	9:26:05	65	58
8338	80	63337.9	.20	0.0	9:27:19	77	55
5652	90	60652.4	.22	0.0	9:28:19	66	56
583	100	55583.0	.10	0.0	9:29:10	86	86
119	110	55119.1	.04	0.0	9:29:58	88	
461	120	55460.8	.03	0.0	9:30:33	88	
0	130	54499.9	.04	0.0	9:31:06	88	65
-640	140	54359.7	.03	0.0	9:31:40	88	55
-79	150	54921.2	.03	0.0	9:32:15	88	
362	160	55362.4	.03	0.0	9:33:16	88	



Line	39	Date	12	JUN	3	#57	
POSITION	FIELD	ERR	DRIFT	TIME	DS	CULT	
668	10	55667.5	.05	0.0	9:40:59	85	66
707	20	55707.0	.03	0.0	9:42:46	88	55
2099	30	57078.6	.03	0.0	9:43:18	88	
3048	40	58068.2	.04	0.0	9:43:55	88	
6448	50	61447.5	.61	0.0	9:44:28	88	58
1223	60	56223.0	.27	0.0	9:44:51	55	56
319	70	55318.7	.04	0.0	9:45:25	88	55
670	80	55671.1	.05	0.0	9:46:09	88	65
-1341	90	53658.7	.31	0.0	9:46:46	68	55
-5038	100	49962.4	.49	0.0	9:47:20	66	
-434	110	54566.3	.06	0.0	9:47:55	88	
162	120	55162.2	.02	0.0	9:48:40	88	
538	130	55537.6	.03	0.0	9:49:21	88	85
541	140	55540.9	.03	0.0	9:49:48	88	
663	150	55663.1	.03	0.0	9:50:18	88	55
826	160	55826.0	.03	0.0	9:50:56	88	
989	170	55988.8	.04	0.0	9:51:28	88	
967	180	55968.4	.04	0.0	9:52:06	88	



Line	38	Date	12	JUN	3	#75	
POSITION	FIELD	ERR	DRIFT	TIME	DS	CULT	
671	10	55690.8	.03	0.0	10:05:39	88	
525	20	55525.0	.03	0.0	10:07:28	88	
214	30	55213.7	.04	0.0	10:08:15	88	
049	40	55049.3	.03	0.0	10:08:52	88	
215	50	55214.5	.03	0.0	10:09:21	88	
320	60	55320.1	.03	0.0	10:09:46	88	
203	70	55202.5	.03	0.0	10:10:08	88	65
459	80	55457.9	.04	0.0	10:10:36	88	55
1560	90	56559.7	.04	0.0	10:11:13	88	
-439	100	54560.5	.08	0.0	10:11:43	88	85
-478	110	54522.0	.04	0.0	10:12:16	88	65
63	120	55062.6	.03	0.0	10:13:12	88	55
361	130	55360.9	.03	0.0	10:13:46	88	
598	140	55597.6	.03	0.0	10:14:20	88	65
587	150	55586.8	.03	0.0	10:14:57	88	55
571	160	55570.6	.03	0.0	10:15:28	88	
538	170	55637.9	.03	0.0	10:15:50	88	



Line	37	Date	12	JUN	3	#92	
POSITION	FIELD	ERR	DRIFT	TIME	DS	CULT	
1304	10	56304.0	.03	0.0	10:29:07	88	
755	20	55755.2	.04	0.0	10:30:47	88	
565	30	57565.6	.10	0.0	10:31:21	88	
7256	40	62256.2	.20	0.0	10:31:53	68	58
4633	50	59632.8	.05	0.0	10:32:24	88	56
-1818	60	53982.2	.39	0.0	10:32:57	55	
-838	70	54162.1	.04	0.0	10:33:18	88	55
11	80	54988.7	.03	0.0	10:34:29	88	
37	90	55037.4	.03	0.0	10:35:09	88	65



JUN12REM							
560	100	55499.9	.04	0.0	10:35:39	88	55
637	110	55637.4	.03	0.0	10:36:06	88	
701	120	55701.3	.03	0.0	10:36:36	88	
487	130	55488.5	.04	0.0	10:37:14	88	
643	140	55642.7	.03	0.0	10:38:15	88	65
759	150	55758.6	.03	0.0	10:38:54	88	

Line	36	Date 12	JUN 3	#107			
POSITION	FIELD	ERR	DRIFT	TIME	DS	CULT	
860	10	55859.5	.03	0.0	10:51:37	88	
1602	20	56602.4	.03	0.0	10:53:21	88	
4076	30	59075.5	.06	0.0	10:53:51	88	
2985	40	63984.7	.53	0.0	10:54:18	58	
19174	50	74174.1	39.	0.0	10:54:52	32	
25034	60	80033.7	90.	0.0	10:57:41	22	
8190	90	63190.2	3.0	0.0	11:02:34	43	58
1115	100	54884.8	.08	0.0	11:03:48	85	56
701	110	55901.3	.03	0.0	11:04:31	88	55
741	120	55741.1	.03	0.0	11:05:02	88	
709	130	55709.4	.03	0.0	11:05:35	88	
753	140	55753.2	.03	0.0	11:06:14	88	65
854	150	55854.6	.03	0.0	11:07:06	88	
723	160	55782.7	.03	0.0	11:07:55	88	55

Line	35	Date 12	JUN 3	#121			
POSITION	FIELD	ERR	DRIFT	TIME	DS	CULT	
892	10	55881.7	.19	0.0	11:21:15	53	56
935	20	55935.0	.03	0.0	11:24:26	88	55
1000	30	55999.9	.03	0.0	11:25:01	88	65
1556	40	56556.1	.04	0.0	11:25:32	88	
927	50	55927.2	.04	0.0	11:26:06	88	
923	60	55922.5	.03	0.0	11:26:33	88	55
1039	70	56039.3	.04	0.0	11:26:56	88	
9898	80	64898.1	2.4	0.0	11:27:20	34	88
10447	90	65446.8	76.	0.0	11:28:32	32	55
13224	100	68284.1	80.	0.0	11:29:48	22	55
3025	110	51974.7	.59	0.0	11:30:41	43	56
143	120	55142.8	.03	0.0	11:31:25	88	85
678	130	55678.3	.03	0.0	11:31:55	88	65
855	140	55855.2	.03	0.0	11:32:22	88	55
924	150	55924.2	.04	0.0	11:32:55	88	
870	160	55870.3	.03	0.0	11:33:43	88	
766	170	55765.8	.04	0.0	11:34:26	88	85
705	180	55705.3	.04	0.0	11:35:01	88	65
705	190	55804.8	.04	0.0	11:35:43	88	55

Line	34	Date 12	JUN 3	#140			
POSITION	FIELD	ERR	DRIFT	TIME	DS	CULT	
604	10	55603.9	.04	0.0	11:46:34	88	
492	20	55491.7	.03	0.0	11:49:52	88	
812	30	55811.9	.04	0.0	11:50:22	88	
1050	40	56049.8	.16	0.0	11:50:50	88	
1283	50	56282.6	.09	0.0	11:51:14	88	
2672	60	57672.4	.04	0.0	11:51:47	88	
6204	70	61203.9	.22	0.0	11:52:14	68	58
10819	80	65819.3	.98	0.0	11:52:47	68	55
5329	90	60329.1	.18	0.0	11:53:27	65	56
1024	100	56023.8	.13	0.0	11:53:53	86	
589	110	54411.2	.06	0.0	11:54:17	88	65
230	120	54770.0	.04	0.0	11:54:38	88	
280	130	55279.8	.03	0.0	11:55:00	88	
671	140	55670.8	.03	0.0	11:55:24	88	85
877	150	55876.6	.03	0.0	11:55:50	88	55

Line	33	Date 12	JUN 3	#155			
POSITION	FIELD	ERR	DRIFT	TIME	DS	CULT	
876	10	55875.7	.03	0.0	12:02:05	88	
929	20	55928.8	.03	0.0	12:04:54	88	
740	30	55740.3	.04	0.0	12:05:25	88	

Reran line but
used
previous
day's data.
(See June 10/03)

JUN12REM

779	40	55778.7	.03	0.0	12:06:03	88	
1151	50	56151.3	.12	0.0	12:06:32	88	
1245	60	53754.8	.10	0.0	12:06:57	88	65
-1873	70	53126.6	.07	0.0	12:07:39	88	55
295	80	54704.9	.18	0.0	12:08:36	88	85
1917	90	56917.1	.11	0.0	12:09:38	88	55
1181	100	56181.1	2.2	0.0	12:10:26	38	
-4428	110	50571.8	11.	0.0	12:11:00	34	
-7611	120	47388.6	2.8	0.0	12:11:31	33	86
-366	130	54633.8	59.	0.0	12:13:33	22	58
2452	140	57451.7	5.4	0.0	12:14:10	48	55
8636	150	63635.9	2.9	0.0	12:14:59	33	58
7427	160	62427.2	9.0	0.0	12:15:28	34	55
2617	170	57617.4	.57	0.0	12:16:34	56	56
781	180	55780.9	.04	0.0	12:17:09	88	85
686	190	55685.7	.04	0.0	12:17:40	88	55



Line	32	Date	12	JUN	3	#174	
POSITION	FIELD	ERR	DRIFT	TIME	DS	CULT	
-533	10	54466.8	.06	0.0	12:24:52	88	
792	20	55791.6	.12	0.0	12:27:06	88	65
1567	30	56567.3	.33	0.0	12:27:34	88	
-449	40	54550.7	.07	0.0	12:28:00	88	55
1722	50	56722.0	.14	0.0	12:28:28	88	
-1490	60	53510.3	2.1	0.0	12:28:59	45	
1994	70	56994.4	18.	0.0	12:30:33	36	55
19094	80	74094.2	75.	0.0	12:31:05	32	58
26781	90	81780.9	90.	0.0	12:32:22	22	

11. 2. 1 Line 32
entered
~~previous day's~~
~~data~~

→ then used previous day's data to continue.

Line	70	Date	12	JUN	3	#183	
POSITION	FIELD	ERR	DRIFT	TIME	DS	CULT	
236	10	55236.0	.04	0.0	12:43:46	88	
-336	20	54664.3	.04	0.0	12:44:45	88	
-1598	30	53401.8	.11	0.0	12:45:14	88	65
-423	40	54516.7	1.4	0.0	12:45:44	48	55

Continuation Line 32
 (heading S.)

EOF

00

pts ✓

JUN8REMR

OMNI-PLUS Tie-line MAG/VLF V12N Ser #418141
TOTAL FIELD DATA (uncorrected)

Reference field: 55000.0
Datum subtracted: 0.0 Date 8 JUN 3
Operator: 3000
Records: 229
Bat: 17.0 Volt Lithium: 3.48 volt
Last time update: 6/06 8:18:00
Start of print: 6/08 17:53:07

20 Line 53 June 7
(same values)

Line	50	Date	8 JUN 3	#1
POSITION	FIELD	ERR	DRIFT	TIME DS CULT
200	56369.7	.00	0.0	8:24:22 88
210	56369.7	.00	0.0	8:25:19 88

Line	857	Date	8 JUN 3	#3
POSITION	FIELD	ERR	DRIFT	TIME DS CULT
10	55207.4	.03	0.0	8:53:55 88
20	55546.2	.03	0.0	8:55:59 88
30	55828.2	.04	0.0	8:56:39 88
40	55986.2	.03	0.0	8:57:18 88
50	56072.3	.03	0.0	8:57:56 88
60	56146.3	.02	0.0	8:58:25 88
70	56193.2	.03	0.0	8:58:49 88
80	56199.4	.03	0.0	8:59:24 88
90	56183.6	.02	0.0	8:59:59 88
100	56236.1	.03	0.0	9:00:37 88
110	56228.0	.03	0.0	9:01:18 88
120	56187.0	.03	0.0	9:01:56 88
130	56119.9	.03	0.0	9:02:50 88
140	56196.9	.02	0.0	9:03:29 88
150	56158.6	.02	0.0	9:04:07 88
160	55868.9	.03	0.0	9:04:30 88
170	55467.3	.03	0.0	9:04:59 88
180	54590.2	.11	0.0	9:05:33 88
190	55254.6	.20	0.0	9:06:10 88
200	61684.5	.30	0.0	9:06:30 56 58
210	57479.5	.11	0.0	9:07:05 87 56
220	55045.8	.06	0.0	9:07:42 88 55
230	51221.5	.49	0.0	9:08:32 67
240	54732.9	.14	0.0	9:09:20 88
250	54912.4	.48	0.0	9:19:06 58
260	55914.4	.03	0.0	9:19:33 88
270	56021.0	.02	0.0	9:20:02 88
280	56012.5	.02	0.0	9:20:29 88
290	55891.2	.02	0.0	9:20:55 88
300	55673.6	.04	0.0	9:21:42 88
310	55583.7	.03	0.0	9:22:46 88
320	55674.9	.03	0.0	9:26:17 88
330	55898.0	.08	0.0	9:27:55 88
340	56433.3	.03	0.0	9:28:51 88
350	57584.3	.10	0.0	9:29:26 88
360	58896.0	.26	0.0	9:29:52 88
370	58589.5	.28	0.0	9:30:33 88
380	58226.0	.06	0.0	9:31:09 88
390	56608.0	.04	0.0	9:32:08 88
400	56357.6	.03	0.0	9:32:42 88
410	56607.3	.03	0.0	9:33:40 88
420	56028.9	.07	0.0	9:34:27 88
430	56437.7	.03	0.0	9:35:00 88
440	57088.2	.02	0.0	9:35:35 88
450	57268.3	.03	0.0	9:36:07 88
460	59082.8	.21	0.0	9:36:37 88
470	58427.8	.20	0.0	9:37:10 88 56

From S. end (upper heading north downhill)



JUN8REMR

170	55052.2	.03	0.0	11:01:42	88
180	55343.9	.03	0.0	11:04:48	88
190	56255.0	.03	0.0	11:08:20	88
200	56041.1	.04	0.0	11:09:13	88
210	56111.6	.03	0.0	11:10:33	88
220	55941.6	.03	0.0	11:12:07	88
230	55894.8	.03	0.0	11:13:20	88
240	56124.0	.03	0.0	11:13:55	88
250	56484.5	.22	0.0	11:14:44	88
260	55998.4	.04	0.0	11:15:45	88
270	55538.7	.03	0.0	11:16:32	88
280	55374.9	.04	0.0	11:18:13	88



Line	13	Date	8	JUN	3	#128		
POSITION	FIELD	ERR	DRIFT	TIME	DS	CULT		
-3688	10	51332.3	.25	0.0	12:16:39	76		
-24	20	54976.3	63.	0.0	12:18:11	32		
-1257	30	53742.8	.29	0.0	12:19:42	68		140m.
6265	40	61264.8	.15	0.0	12:20:46	76	58	
2762	50	61762.4	.21	0.0	12:21:40	88	55	
3281	60	58281.0	.06	0.0	12:22:45	86	56	
2697	70	57697.4	.04	0.0	12:23:18	88	55	
2806	80	57805.7	.04	0.0	12:23:54	88		
2263	90	57263.2	.04	0.0	12:24:34	88		
1732	100	56731.7	.03	0.0	12:25:17	88		
1781	110	56261.2	.04	0.0	12:26:47	88		
1118	120	56117.9	.03	0.0	12:28:11	88		
957	130	55956.9	.04	0.0	12:29:11	88		
1106	140	56105.6	.03	0.0	12:30:10	88		
982	150	55962.1	.03	0.0	12:31:21	88		



Line	14	Date	8	JUN	3	#143		
POSITION	FIELD	ERR	DRIFT	TIME	DS	CULT		
1000	10	55999.8	.03	0.0	12:38:27	88	65	
1146	20	56145.9	.06	0.0	12:41:18	88	55	
1170	30	56190.1	.03	0.0	12:41:59	88		
1301	40	56301.2	.02	0.0	12:42:52	88		
1485	50	56485.1	.07	0.0	12:44:15	88		
1347	60	56847.2	.03	0.0	12:44:58	88		180m.
2297	70	57296.9	.11	0.0	12:45:31	88		
3019	80	58018.8	.03	0.0	12:46:01	88		
3260	90	58259.9	.03	0.0	12:46:42	88		
3011	100	58010.8	.05	0.0	12:47:14	88		
4734	110	59734.1	.03	0.0	12:47:39	88		
9105	120	64104.9	.80	0.0	12:48:07	58		
10729	130	65729.1	1.5	0.0	12:48:59	68		
-6035	140	48965.0	6.6	0.0	12:49:34	32	56	
-10616	150	44383.6	.35	0.0	12:50:25	55		
-7393	160	47607.2	1.1	0.0	12:51:04	48	55	
1016	170	56015.8	.13	0.0	12:51:28	75	58	
-4190	180	50809.8	11.	0.0	12:51:57	43	55	
-411	190	54539.3	.05	0.0	12:52:22	88		



Line	15	Date	8	JUN	3	#162		
POSITION	FIELD	ERR	DRIFT	TIME	DS	CULT		
-4710	10	50290.0	31.	0.0	12:57:53	42		
9936	20	64935.5	33.	0.0	12:59:43	22	58	
2328	30	57328.1	.50	0.0	13:00:12	44	56	210m.
-906	40	54093.8	.13	0.0	13:00:32	76	55	
-1249	50	53650.6	.42	0.0	13:00:52	58		
-4541	60	50458.9	1.7	0.0	13:01:17	87		
-9893	70	45316.7	.51	0.0	13:02:59	45	56	
-7031	80	47969.1	48.	0.0	13:05:34	22		
6403	90	61402.5	65.	0.0	13:06:31	32	58	
13187	100	68780.6	1.4	0.0	13:07:32	55	55	
11504	110	59503.9	.06	0.0	13:08:09	84	56	
3207	120	58207.2	.03	0.0	13:08:51	88		
3246	130	58296.3	.02	0.0	13:09:38	88	55	
3030	140	58029.9	.03	0.0	13:10:26	88		



JUN8REMR

150	57352.7	.03	0.0	13:11:05	88
1923	56922.9	.03	0.0	13:12:08	88
1657	56657.3	.03	0.0	13:13:15	88
1019	56418.6	.03	0.0	13:14:06	88
1295	56245.3	.03	0.0	13:15:52	88
1125	56128.1	.03	0.0	13:16:56	88
900	55965.7	.03	0.0	13:18:12	88
1141	56146.4	.03	0.0	13:19:33	88



Line 16 Date 8 JUN 3 #184

POSITION	FIELD	ERR	DRIFT	TIME	DS	CULT
953	10	55953.3	.07	0.0	13:28:56	88
1099	20	56099.2	.04	0.0	13:31:20	88
1215	30	56214.9	.03	0.0	13:31:55	88
1245	40	56264.7	.03	0.0	13:32:37	88
1164	50	56164.1	.03	0.0	13:33:06	88
1538	60	56537.7	.03	0.0	13:33:47	88
1796	70	56796.0	.03	0.0	13:34:33	88
2124	80	57123.5	.02	0.0	13:35:05	88
2404	90	57604.4	.03	0.0	13:35:38	88
3100	100	58099.9	.02	0.0	13:36:32	88
3957	110	58857.2	.02	0.0	13:37:10	88
4382	120	59382.4	.06	0.0	13:37:44	88
4893	130	59893.4	.05	0.0	13:39:05	88 56
695	140	55694.9	2.8	0.0	13:40:05	35
302	150	54698.1	.21	0.0	13:43:17	78 55
1199	160	56197.6	.92	0.0	13:57:28	48 65
2815	170	49189.7	23.	0.0	13:58:37	44 55
2505	180	52495.1	.21	0.0	14:00:18	78

170m



Line 17 Date 8 JUN 3 #202

POSITION	FIELD	ERR	DRIFT	TIME	DS	CULT
348	10	55347.5	.15	0.0	14:09:21	88
77	20	55076.8	.03	0.0	14:12:12	88
182	30	54818.4	.03	0.0	14:12:43	88
545	40	54455.3	.03	0.0	14:14:02	88
612	50	54387.8	.03	0.0	14:14:24	88
495	60	54505.1	.04	0.0	14:15:06	88
170	70	53288.9	.05	0.0	14:16:08	88
6573	80	48427.0	.14	0.0	14:16:52	65 56
2404	90	57403.5	.07	0.0	14:29:36	85 58
2219	100	57279.2	.81	0.0	14:30:18	88 55
2141	110	57141.1	.03	0.0	14:32:34	88
2064	120	57063.8	.03	0.0	14:34:09	88
1904	130	56904.3	.03	0.0	14:35:07	88
1506	140	56506.3	.03	0.0	14:36:02	88
1761	150	56766.2	.03	0.0	14:37:26	88
1516	160	56904.2	.03	0.0	14:39:39	88



Line 18 Date 8 JUN 3 #218

POSITION	FIELD	ERR	DRIFT	TIME	DS	CULT
1092	10	56091.7	.04	0.0	14:43:47	88
1214	20	56213.5	.06	0.0	14:53:56	88
1332	30	56332.1	.03	0.0	14:55:37	88
2740	40	55976.6	.03	0.0	14:57:16	88
678	50	55678.4	.03	0.0	14:57:57	88
169	60	55164.2	.04	0.0	14:58:44	88
3272	70	53728.2	.06	0.0	14:59:33	88
4950	80	50196.5	1.8	0.0	15:00:27	76
5457	90	51532.9	.04	0.0	15:01:48	88
1211	100	53787.3	.02	0.0	15:02:37	88
4186	110	54513.8	.03	0.0	15:03:12	88
57	120	54942.2	.03	0.0	15:03:39	88



EOF

JUN13REM

OMNI-PLUS Tie-line MAG/VLF V12N Ser #418141
TOTAL FIELD DATA (uncorrected)

Reference field: 55000.0
Datum subtracted: 0.0 Date 13 JUN 3
Operator: 3000
Records: 159
Bat: 17.0 Volt Lithium: 3.48 Volt
Last time update: 6/13 8:33:00
Start of print: 6/13 17:00:50

Line 70 Date 13 JUN 3 #1
POSITION FIELD ERR DRIFT TIME DS CULT
60 56369.7 .00 0.0 8:21:12 88

Line 71 Date 13 JUN 3 #2
POSITION FIELD ERR DRIFT TIME DS CULT
10 55536.0 .07 0.0 8:24:48 88 55
20 55279.0 .05 0.0 8:26:15 88
30 54662.3 .22 0.0 8:27:20 88
40 62733.9 2.9 0.0 8:28:20 34 58
80 63170.1 78. 0.0 8:36:12 22
90 50792.5 58. 0.0 8:38:12 22 56
100 51809.2 .07 0.0 8:40:13 88 58
110 54524.2 .03 0.0 8:42:04 88 55
120 55217.7 .03 0.0 8:43:24 88
130 55670.1 .03 0.0 8:44:37 88
140 56026.1 .03 0.0 8:46:47 88
150 56084.8 .04 0.0 8:48:09 88
160 56188.3 .02 0.0 8:49:35 88
170 56581.2 .07 0.0 8:50:27 88
180 56268.0 .03 0.0 8:51:29 88 65
190 56449.3 .03 0.0 8:52:17 88 55
200 56530.9 .03 0.0 8:53:03 88
210 56560.9 .02 0.0 8:54:03 88
220 56633.1 .03 0.0 8:54:56 88
230 56692.5 .03 0.0 8:55:59 88
240 56844.4 .03 0.0 8:56:53 88
250 56857.5 .03 0.0 8:58:19 88
260 56863.2 .03 0.0 8:59:27 88
270 56908.4 .02 0.0 9:00:17 88 85
280 56966.8 .03 0.0 9:01:05 88 65
290 56890.2 .03 0.0 9:02:06 88
300 56805.0 .03 0.0 9:02:55 88 55
310 56698.4 .02 0.0 9:03:42 88 85
320 56640.4 .03 0.0 9:04:32 88 55
330 56534.0 .14 0.0 9:05:13 88 85
340 56442.9 .03 0.0 9:06:02 88 55
350 56299.8 .03 0.0 9:07:07 88 65
360 56526.6 .03 0.0 9:07:35 88 85



Line 72 Date 13 JUN 3 #35
POSITION FIELD ERR DRIFT TIME DS CULT
1657 10 56656.6 .03 0.0 9:09:50 88 55
2170 20 57170.3 .19 0.0 9:10:43 88 65
1842 30 56641.5 .04 0.0 9:11:16 88 55
2096 40 57095.9 .16 0.0 9:11:37 78
1818 50 56818.2 .03 0.0 9:11:59 88
1735 60 56736.0 .03 0.0 9:12:19 88
1516 70 56516.4 .03 0.0 9:12:39 88
1555 80 56554.6 .04 0.0 9:12:59 88
1477 90 56477.4 .02 0.0 9:13:18 88
1825 100 56825.1 .05 0.0 9:13:38 88
1743 110 56762.9 .03 0.0 9:13:57 88
1877 120 56876.5 .04 0.0 9:14:14 88



JUN13REM

1746	130	56745.5	.03	0.0	9:14:33	88
1671	140	56670.5	.03	0.0	9:14:53	88
1432	150	56437.6	.03	0.0	9:15:11	88
1408	160	56407.8	.03	0.0	9:15:30	88
881	170	55881.0	.03	0.0	9:15:50	88
506	180	55505.8	.04	0.0	9:16:10	88
-169	190	54830.9	.04	0.0	9:16:29	88
-298	200	54102.2	.04	0.0	9:16:48	88
-1604	210	53395.9	.06	0.0	9:17:07	88
-2777	220	52223.0	.08	0.0	9:17:27	88 65
-9465	230	45515.2	26.	0.0	9:17:47	22 56
-226	240	54773.9	.52	0.0	9:18:25	55 58
-424	250	54576.1	.04	0.0	9:18:46	88 55
-37	260	54963.3	.03	0.0	9:19:27	88
33	270	55033.1	.04	0.0	9:19:48	88 65
-589	280	54413.3	.82	0.0	9:20:08	78 55
-1478	290	53522.1	.04	0.0	9:20:25	88
-1602	300	53398.4	.04	0.0	9:20:43	88
-1261	310	53739.4	.03	0.0	9:21:02	88
-1022	320	53998.0	.03	0.0	9:21:21	88
-622	330	54377.6	.03	0.0	9:21:39	88
-404	340	54596.3	.04	0.0	9:21:57	88
-101	350	54898.5	.04	0.0	9:22:16	88 65
88	360	55087.5	.03	0.0	9:22:36	88 55
250	370	55249.7	.04	0.0	9:22:55	88
-1129	380	53870.9	.62	0.0	9:23:28	78
1099	390	56098.5	.05	0.0	9:32:52	88
1369	400	56369.1	.03	0.0	9:33:14	88
1584	410	56583.9	.03	0.0	9:33:35	88
1426	420	56426.3	.02	0.0	9:33:57	88
1182	430	56162.3	.03	0.0	9:34:20	88
1392	440	56391.6	.03	0.0	9:34:41	88
1286	450	56266.1	.02	0.0	9:35:03	88
1232	460	56231.7	.03	0.0	9:35:24	88
1138	470	56837.7	.21	0.0	9:35:44	78 65
1252	480	56356.1	.03	0.0	9:36:05	88 55
1329	490	56329.3	.03	0.0	9:36:24	88 65
1606	500	56605.5	.04	0.0	9:36:45	88 55
1997	510	56996.9	.11	0.0	9:37:06	88 85
1963	520	56962.7	.09	0.0	9:37:27	78 55
1688	530	56587.8	.03	0.0	9:37:47	88
2095	540	57095.2	.19	0.0	9:38:07	78
1361	550	56361.3	.03	0.0	9:38:28	88
1304	560	56304.1	.03	0.0	9:38:49	88
1344	570	56344.4	.03	0.0	9:39:12	88
1212	580	56217.8	.03	0.0	9:39:37	88
1250	590	56259.7	.03	0.0	9:40:00	88 65
1182	600	56181.7	.03	0.0	9:40:21	88 85
1156	610	56156.3	.03	0.0	9:40:47	88 55
1159	620	56153.6	.03	0.0	9:42:47	88
1122	630	56122.2	.04	0.0	9:43:43	88
8151	640	56151.2	.04	0.0	9:44:38	88
1020	650	56030.3	.04	0.0	9:46:16	88
1022	660	56026.0	.04	0.0	9:47:46	88
1046	670	56043.1	.03	0.0	9:48:52	88
1085	680	56065.3	.04	0.0	9:49:52	88
1048	690	56048.4	.03	0.0	9:51:01	88
1081	700	56081.2	.04	0.0	9:51:57	88
1080	710	56085.1	.06	0.0	9:53:15	88
1083	720	56083.1	.04	0.0	9:54:04	88
1130	730	56130.2	.04	0.0	9:54:42	88
1041	740	55640.9	.11	0.0	9:55:28	78
1108	750	56108.1	.04	0.0	9:56:01	88
1040	760	56039.5	.04	0.0	9:57:40	88
1083	770	56082.9	.03	0.0	9:58:37	88
763	780	55962.8	.03	0.0	9:59:27	88
968	790	55966.0	.04	0.0	10:00:11	88
920	800	55900.4	.04	0.0	10:01:05	88
820	810	55860.3	.03	0.0	10:02:09	88

← road intersection of rock saw cut. (as per notes).

← by intersection at Ee 600 (see notes)

← end of road (took Right fork into trees) (see notes)

JUN13REM

859	820	55858.7	.03	0.0	10:03:17	88
- 599	830	56400.6	.07	0.0	10:03:57	88
896	840	55896.4	.05	0.0	10:05:22	88
706	850	55705.6	.04	0.0	10:05:50	88
525	860	55534.8	.04	0.0	10:06:16	88
512	870	55507.9	.03	0.0	10:06:43	88
445	880	55444.5	.03	0.0	10:07:10	88
449	890	55448.5	.02	0.0	10:07:36	88
427	900	55458.3	.02	0.0	10:08:02	88
494	910	55493.7	.02	0.0	10:08:29	88

✓
 ← end of line does not
 match map
 (spread out stations over
 line length).

Line	73	Date	13	JUN	3	#126	
POSITION	FIELD	ERR	DRIFT	TIME	DS	CULT	
10	55724.7	.02	0.0	11:42:59	88		
20	55535.0	.04	0.0	11:45:46	88		
30	55582.1	.03	0.0	11:46:46	88		
40	55571.3	.04	0.0	11:47:24	88		
50	55431.4	.04	0.0	11:48:13	88		
60	55227.2	.03	0.0	11:48:54	88		
70	55320.7	.04	0.0	11:49:47	88		
80	55259.7	.03	0.0	11:50:09	88		
90	55178.7	.03	0.0	11:50:33	88		
100	55210.0	.03	0.0	11:51:31	88		
110	55424.8	.03	0.0	11:53:11	88		

Jake Claims

Line	74	Date	13	JUN	3	#137	
POSITION	FIELD	ERR	DRIFT	TIME	DS	CULT	
10	56215.5	.03	0.0	13:15:05	88		
20	56378.0	.03	0.0	13:16:56	88		
30	56990.5	.03	0.0	13:17:18	88		
40	56279.9	.03	0.0	13:17:51	88		
50	55484.3	.03	0.0	13:18:23	88		
60	55407.2	.03	0.0	13:18:52	88		
70	55654.1	.03	0.0	13:20:45	88		
80	56096.6	.03	0.0	13:21:04	88		
90	56030.5	.04	0.0	13:21:27	88		
100	55509.5	.03	0.0	13:21:54	88		
110	55776.8	.03	0.0	13:22:14	88		
120	56275.4	.03	0.0	13:22:34	88		
130	56203.8	.03	0.0	13:22:55	88		
140	56617.7	.04	0.0	13:23:15	88		
150	56110.2	.03	0.0	13:23:35	88		
160	56222.3	.03	0.0	13:24:04	88		
170	56169.1	.03	0.0	13:24:24	88		
180	54979.1	2.8	0.0	13:24:58	55		
190	55928.5	.03	0.0	13:25:19	88		
200	55948.7	.03	0.0	13:25:49	88		
210	56024.6	.03	0.0	13:26:25	88		
220	55969.8	.14	0.0	13:26:42	88		
230	55967.1	.03	0.0	13:27:01	88		

Jake Claims

EOF

□□

APPENDIX VII

INTERNATIONAL METALLURGICAL TESTING

January 31, 2004

INTERNATIONAL METALLURGICAL AND ENVIRONMENTAL INC.

13-2550 Acland Road, Kelowna, B.C., CANADA, V1X 7L4, Telephone (250) 491-1722, Facsimile (250) 491-1723

January 6, 2003

Mr Steve Gardner
 Hillsborough Resources Limited
 PO Box 5000
 Campbell River, B.C.
 V9W 5C5

*PRELIMINARY
 REPORT*

*ICP & WHOLE ROCK ANALYSIS OF
 MAGNETITE ORE SAMPLES - EXPEDITED
 WORK OF JAN 20 & 21, 2003
 King
 JAN 17, 2003*

Dear Steve Gardner

A bulk sample of magnetite ore was submitted to International Metallurgical and Environmental Inc. for metallurgical testing and to evaluate the magnetite concentrate produced as a heavy media product for use in coal cleaning circuits.

The magnetite produced in this particular test program exceeds the specific gravity and percentage magnetics specifications but was marginally coarser than the magnetite generally supplied to coal cleaning operations.

Sample	Specific Gravity g/cc	Percent Magnetics (900 Gauss)	Passing 45 micron %	Passing 38 micron %	Passing 10 micron %
Magnetite Conc.	5.04	99.7	87.5	74.9	17.0
Magnetite specifications	>4.7	>95	>90	>75	<30

Approximately 10 kilograms of magnetite concentrate was produced and has been prepared for use in marketing surveys.

Test Procedure

A series of test grinds were conducted in a stainless steel laboratory rod mill to determine the grind size in relation to grind time. A batch of approximately 20 kilograms of material was ground to a size of 80% passing 174 microns and this was pumped as a slurry with water to a single stage magnetic drum separator. The process flowsheet is given in Diagram 1.

INTERNATIONAL METALLURGICAL AND ENVIRONMENTAL INC.

13-2550 Acland Road, Kelowna, B.C., CANADA, V1X 7L4, Telephone (250) 491-1722, Facsimile (250) 491-1723

The rougher magnetic concentrate produced was reground in a laboratory rod mill to a sizing of 80% passing 41 microns. This rougher concentrate was then processed using the single magnetic drum separator, circulating the slurry to simulate a multi-stage cleaning operation and the cleaner concentrate collected as the final magnetite product.

The magnetite concentrate was submitted for sizing analysis, percentage magnetics (Davis Tube at 900 gauss) and specific gravity determinations.

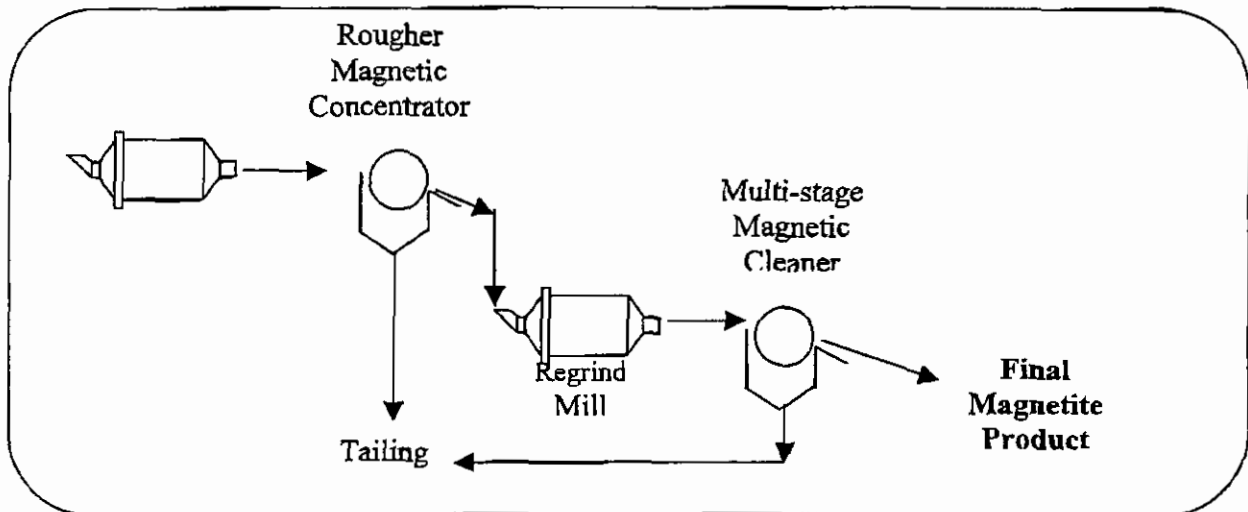


Diagram 1 – Magnetite testwork flowsheet

Results and Discussion

The bulk magnetite ore sample submitted to International Metallurgical and Environmental Inc. for testing contained approximately 80 percent magnetics.

At a primary grind size of 80 percent passing 174 μ m, the magnetic rougher concentrate contained 91.2% magnetics with a magnetics recovery of 99.0%. The rougher tails were analysed at 5.4% magnetics. (See Appendix 1). The primary grind size used for this testwork (80% passing 174 μ m) is approximately the grind size used in similar test programs conducted by International Metallurgical and Environmental Inc. on other magnetite ores.

The final cleaner concentrate produced was 99.7% magnetics and a cleaner tails sample analysed at 20.2% magnetics. As the cleaning circuit was operated in an open circuit configuration, no mass balance and recovery data was prepared. In a closed circuit configuration the cleaner tails would be re-circulated within the process circuit.

INTERNATIONAL METALLURGICAL AND ENVIRONMENTAL INC.

13-2550 Acland Road, Kelowna, B.C., CANADA, V1X 7L4, Telephone (250) 491-1722, Facsimile (250) 491-1723

The magnetite product had a sizing of 87.5% passing 45 micron and 17.0% passing 10 micron, marginally coarser than that typically supplied to coal cleaning operations. (See appendix 2). The fineness of the magnetite product was limited by the operating characteristics of the laboratory rod mill as the secondary grinding stage. The magnetite concentrate produced in a large scale operation is expected to be finer with the use of a ball mill for secondary grinding, operating in closed circuit with hydro-cyclones.

The specific gravity of the ground magnetite product was 5.04 g/cc.

The Bond Work Index of the bulk sample submitted for testing was determined to be 15.3kWhr/tonne. (Appendix 3)

A whole rock analysis and ICP multi-element analysis are given in Appendices 4 and 5. These results are in line with magnetite produced for use in coal processing plants.

Overall magnetite recovery from this material in a production scale operation is anticipated to be at least 95% and this testwork has indicated that the product will meet the specifications required by coal processing plants.

The optimum grind size for the Hillsborough magnetite ore must be established in relation to particle liberation size to determine the primary grinding power requirements and maximize magnetite recovery.

Please call with any questions

Yours truly

Jeff Austin, P.Eng., - President
International Metallurgical and Environmental Inc.

RESULTS
AWAITED
BUT EXPECTED
TO BE
TYPICAL OF
OTHER MINE
PRODUCTS



Appendix 1

International Metallurgical and Environmental Inc.
Magnetic Separation Test Summary

Project: Hillsborough
 Mag Sep Test No. 100
 Test Sample: Magnetite ore

Primary Grind: 7 min, $P_{80} = 174\mu\text{m}$

Metallurgical Balance

Sample	Weight %	Magnetics %	Distribution Magnetics %
Rougher Conc	85.2	91.2	99.0
Final Tail	14.8	5.4	1.0
Calculated Head	100.0	78.5	100.0
Sampled Head		82.8	
Cleaner Concentrate		99.7	n/a
Cleaner Tails		20.2	n/a

International Metallurgical and Environmental Inc.
Summary of Magnetite Analysis

Project : Hillsborough
Sample: Magnetite Concentrate
Reporting Date: December 31, 2002

Sample	Specific Gravity	Percent Magnetics (900 Gauss)	Passing 45 micron %	Passing 38 micron %	Passing 10 micron %
Magnetite Conc.	5.04	99.7	87.5	74.9	17.0

Jeffrey B. Austin, P. Eng. - President
International Metallurgical and Environmental Inc.

International Metallurgical and Environmental Inc.
Bond Ball Mill Work Index Determination

Project: Hillsborough Magnetite
Sample: Magnetite Composite
Mesh Size used in test: 200 mesh (75 μ m)

Weight of 700 cc of fresh feed : 1730.5g

Cycle	Revolutions	Product Oversize g	Product Undersize g	Circulating Load %	Product per Rev. g/rev
1	200	1,396.0	328.3	425.2	1.51
2	301	1,361.7	363.5	374.7	1.11
3	410	1,264.7	464.0	272.5	1.04
4	436	1,244.4	477.9	280.4	1.01
5	451	1,235.4	495.0	249.6	1.01
6	451	1,232.8	499.8	246.7	1.02

80 percent passing size for test feed :	4075	microns	} see attached screen analysis
80 percent passing size for product :	58	microns	
Average grindability of last 3 cycles :	1.013	grams/rev	
Calculated Bond Work Index :	15.3	kWhr/tonne	
	13.9	kWhr/st	

International Metallurgical and Environmental Inc.
Screen Analysis

Project: Hillsborough Magnetite
Sample: Magnetite Composite

Bond Work Index - Feed

Screen Size		% Retained		Cumulative % Passing
Mesh	Micron	Individual	Cumulative	
4	4750	9.5	9.5	90.5
6	3350	22.1	31.7	68.3
8	2360	11.4	43.1	56.9
10	1700	9.2	52.3	47.7
14	1180	7.8	60.0	40.0
20	850	6.1	66.2	33.8
28	600	5.5	71.6	28.4
35	425	4.2	75.9	24.1
48	300	4.2	80.1	19.9
65	212	3.8	83.9	16.1
100	150	3.1	87.0	13.0
150	106	2.5	89.4	10.6
200	75	2.7	92.1	7.9
270	53	1.6	93.7	6.3
400	38	1.7	95.4	4.6
Minus 400	-38	4.6	100.0	

Bond Work Index - Product

Screen Size		% Retained		Cumulative % Passing
Mesh	Micron	Individual	Cumulative	
65	212	0.0	0.0	100.0
100	150	0.1	0.1	99.9
150	106	0.2	0.3	99.7
200	75	2.7	3.0	97.0
270	53	20.4	23.4	76.6
400	38	21.0	44.4	55.6
Minus 400	-38	55.7	100.0	

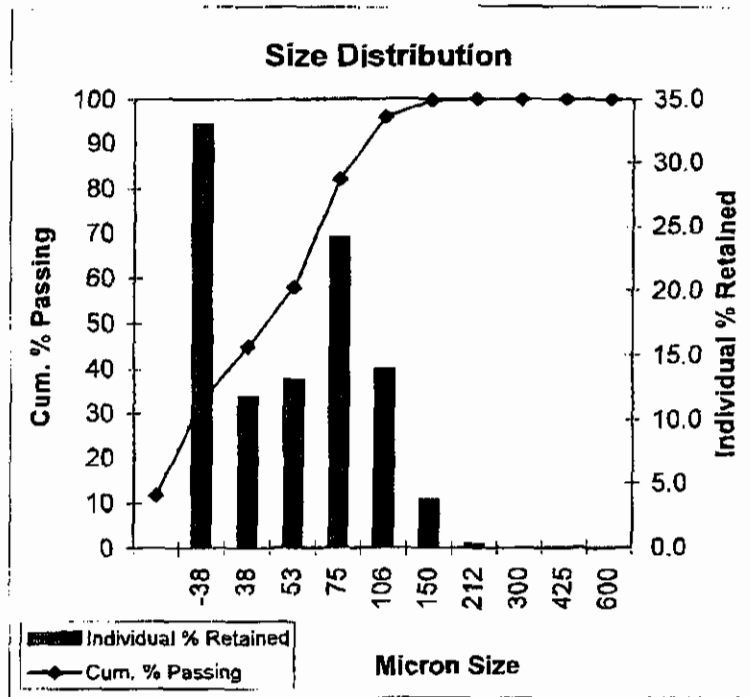
80 Percent passing size for feed
80 Percent passing size for product

4075 microns
56 microns

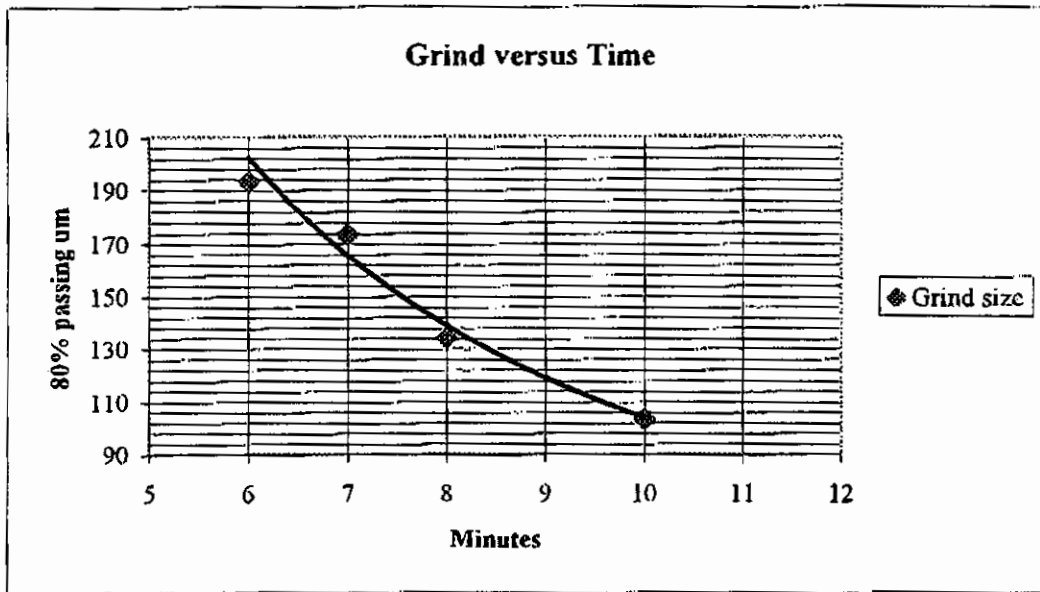
**International Metallurgical and Environmental Inc.
Screen Analysis Summary**

Project: Hillsborough - Sayward Project
Sample: Magnetite Feed - Grind #10 - 7 minute
Date: December 16, 2002
80 % passing 174 μm

Mesh Size	Micron Size	% Retained		Cum. % Passing
		Individual	Cumulative	
20	850	0.2	0.2	99.8
28	600	0.1	0.3	99.7
35	425	0.0	0.3	99.7
48	300	0.7	1.0	99.0
65	212	8.2	9.2	90.8
100	150	17.9	27.1	72.9
150	106	16.0	43.1	56.9
200	75	17.0	60.1	39.9
270	53	9.9	70.0	30.0
400	38	8.6	78.6	21.4
-400	-38	21.5	91.6	8.4



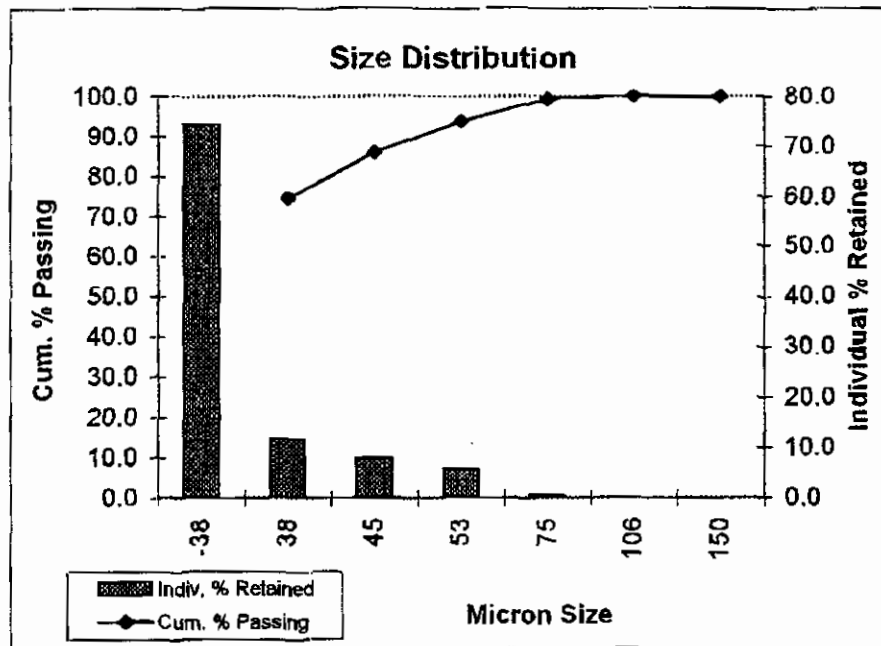
Hillsborough Magnetite - Primary Test Grind Sizes



International Metallurgical and Environmental Inc. Screen Analysis Summary

Project: Hillsborough
Sample: Test 100 - Ro Conc 22 min. re-grind
Date: December 19, 2002
80 % passing 41 μm

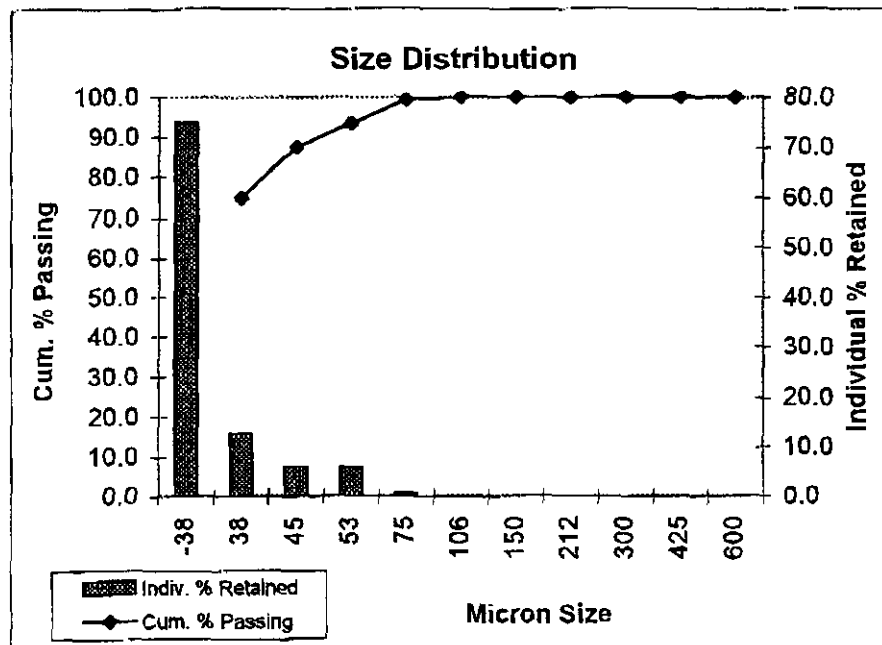
Mesh Size	Micron Size	% Retained		Cum. % Passing
		Individual	Cumulative	
28	600	0.0	0.0	100.0
35	425	0.0	0.0	100.0
48	300	0.0	0.0	100.0
65	212	0.0	0.0	100.0
100	150	0.0	0.0	100.0
150	106	0.0	0.0	100.0
200	75	0.6	0.7	99.3
270	53	5.6	6.3	93.7
325	45	7.8	14.1	85.9
400	38	11.5	25.6	74.4
-400	-38	74.4	100.0	



International Metallurgical and Environmental Inc. Screen Analysis Summary

Project: Hillsborough
Sample: Test 100 - Cleaner Conc
Date: December 31, 2002
80 % passing 41 μm

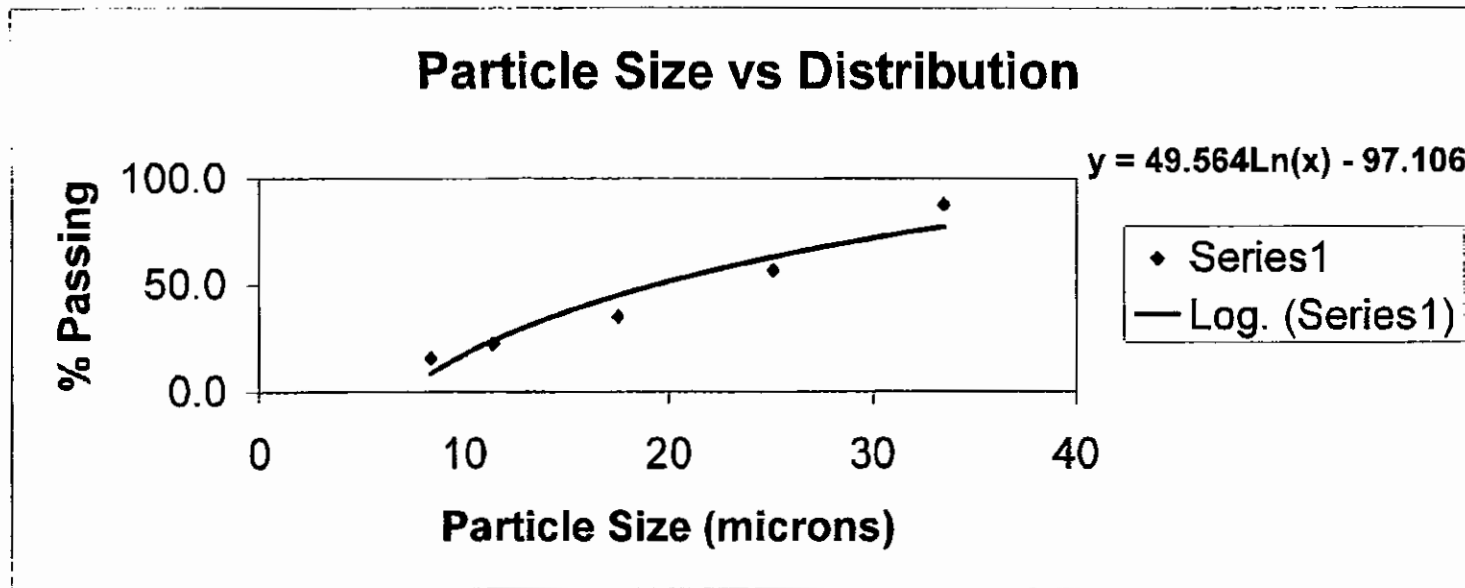
Mesh Size	Micron Size	% Retained		Cum. % Passing
		Individual	Cumulative	
28	600	0.0	0.0	100.0
35	425	0.0	0.0	100.0
48	300	0.0	0.0	100.0
65	212	0.0	0.0	100.0
100	150	0.0	0.0	100.0
150	106	0.0	0.0	100.0
200	75	0.6	0.6	99.4
270	53	5.9	6.5	93.5
325	45	6.0	12.5	87.5
400	38	12.6	25.1	74.9
-400	-38	74.9	100.0	



International Metallurgical and Environmental Inc.
Cyclosizing Analysis Summary

Project: Hillsborough
 Test No.: T100
 Sample: Cleaner Concentrate
 Reporting Date: December 31, 2002
 % Passing 10 µm: 17.0

Sieve Size		Wt grams	% Retained		Cumulative % Passing
Mesh Size	Cyclone Size (µm)		Individual	Cumulative	
Cyclone 1	34	6.24	12.5	12.5	87.5
Cyclone 2	25	15.52	31.0	43.5	56.5
Cyclone 3	18	10.82	21.6	65.2	34.8
Cyclone 4	11	6.38	12.8	77.9	22.1
Cyclone 5	8	3.35	6.7	84.6	15.4
Minus Cyclone 5	minus 8	7.69	15.4	100.0	
		50.0027			





Sandvik Rock Processing

Doc 3/5	154 P 2
From Sandvik	
To Peter H. Tse	
Phone 920 734 7100	
Fax 604-322-0181	
7671	
7671	
7671	

Feb. 5th, 2002

Process Research Associates Ltd.
9145 Shaughnessy Street
Vancouver, B.C. Canada V6P 6R9

Attention: Peter Tse

Enclosed are the results of testing the material received in a 5 gal. Bucket, on Jan 22, 2002. The material appeared to be a Magnetite Ore. The container received was not marked with any thing else.

The abrasion index of the samples was tested by the use of the Pennsylvania Abrasion index device, in which a 76-mm by 25-mm- by 6-mm (3-in by 1-in by 1/4-in.) piece of 500 Brielle SAE 4130 chrome-nickel-molybdenum steel rotates in a falling stream of ore under standard conditions and the weight loss is measured. The abrasion index (A) is then used to empirically predict wear rates of crusher liners.

During operation the single paddle strikes a column of falling rock or ore particles. The sampling size is four 400 gram samples of broken rock, mineral or ore, (assuming that the solid density is 160 pounds per cubic foot), which are sized to pass Tyler screen 0.742 and to be held upon screen 0.50. A complete test consists of 1,600 grams run as four batches of 400 grams each. Each 400 gram portion is run exactly 15 minutes by stop watch; then the drum is opened and cleaned out, a fresh lot of material is added and the test is continued. Before this test this paddle is demagnetized, and is accurately weighed on a balance, to a tenth of a milligram. After the completed run of 1,600 grams the paddle is removed and washed clean of all rock particles, dried, demagnetized and reweigh. The loss of weight recorded in tenths of a milligram represents the abrasive index for the particular rock, mineral or ore.

Sample Number	Abrasion Index	Sandvik Test #
	0.0846	A02105

For comparison purposes the test appeared to have characteristics that would generally indicate less than normal wear when crushed in a compression type crusher. As a general observation it should be noted that during the test the

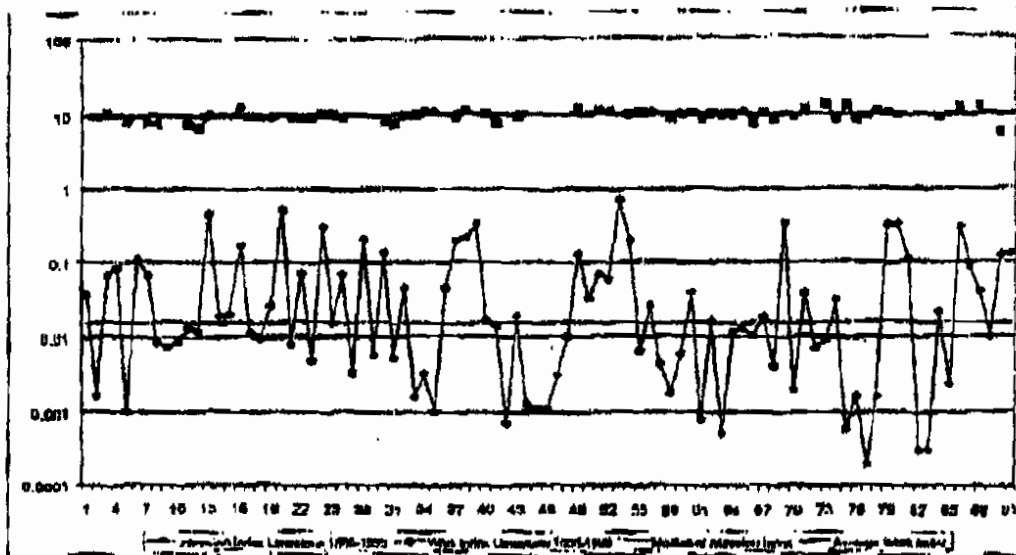
Sandvik Rock Processing
1051 N. Lindale Drive
Appleton WI, 54914

Phone 920-734-7600

Fax 920-734-7151

material did breakdown fairly quickly in the impact testing device. This may result in a slightly misleading index for crushing.

As a quick reference, the abrasion test values for tested limestone obtained in the Sandvik rock lab for the last two years, together with the corresponding high energy work index values, are displayed in the table below. The line across the high energy work index values represents the mean of the values, whereas the line across the abrasion values represents the median of all tests. The mean work index for limestone is 9.41 kwh/st, while the median abrasion index for limestone is 0.0152.



Regards:
 Jerry Heckert
 Supervisor Application Eng. & Laboratory Testing

Sandvik Rock Processing
 1051 N. Lindale Drive
 Appleton WI 54914

Phone 920-734-7600

Fax 920-734-7131



BOND MILL GRINDABILITY TEST* REPORT

Client: Tilbury Cement
Test: BI-1
Sample: Magnetite-Sayward

Date: 2-Oct-01
Project: 0100101

TEST CONDITIONS:

Cycle	Oversize Wt. (grams)	Product Wt. (grams)	Feed Undersize (grams)	Net Product (grams)	Product per Rev. (grams/rev.)	Required Rev. (rev.)
1	1,393	1,035	880	145	1.45	100
2	1,767	661	379	282	1.30	216
3	1,748	630	242	437	1.26	346
4	1,743	685	249	436	1.24	351
5	1,737	691		440	1.24	356
6	1,735	693		439	1.23	356

SIZE ANALYSIS

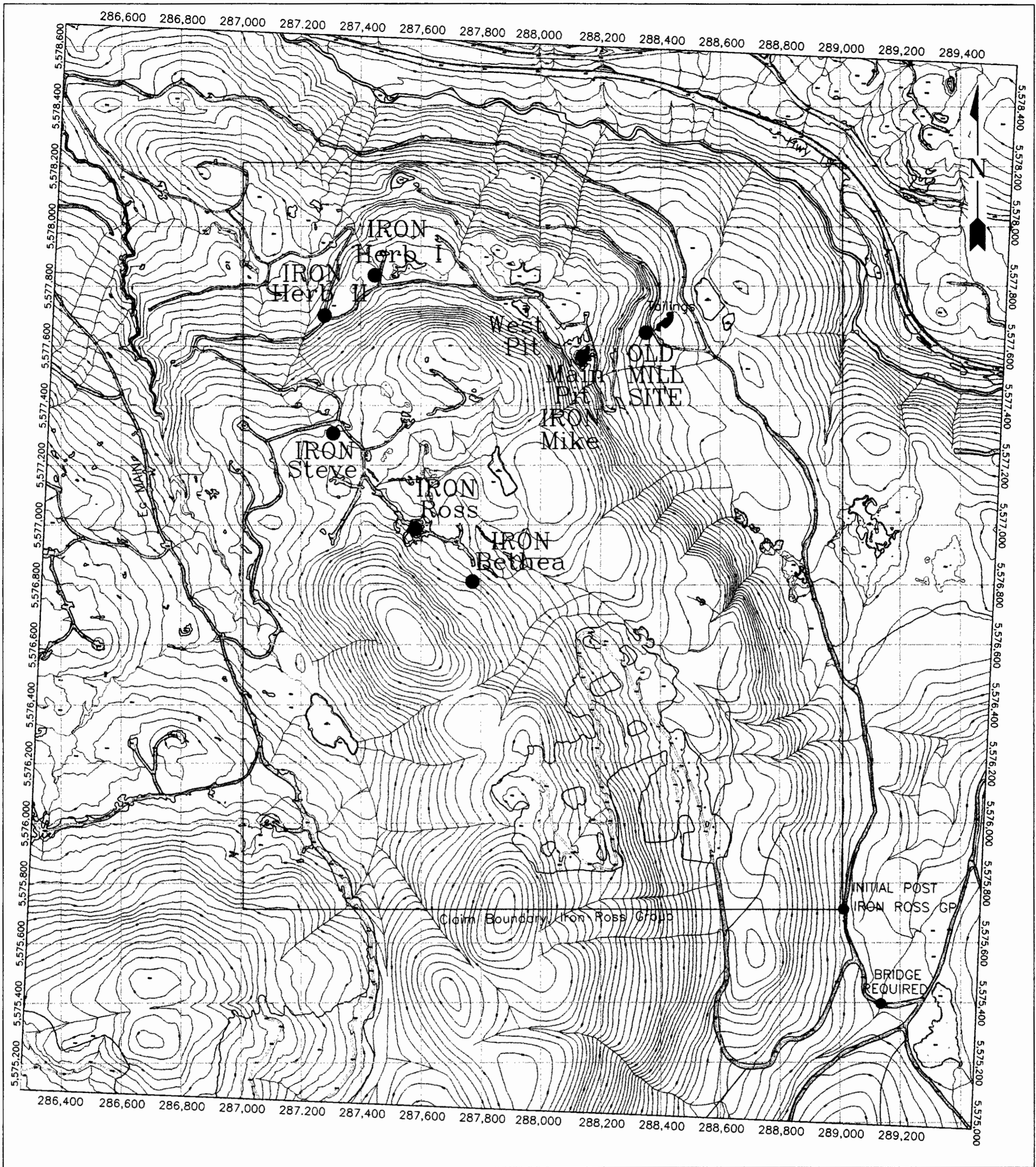
Sieve Size		% Passing	
Tyler mesh	μm	Feed	Product
8	2,380	98.3	
10	1,680	92.7	
14	1,190	84.8	
20	841	79.8	
28	595	74.6	
35	420	69.4	
48	297	64.1	
65	210	57.8	
100	149	51.2	
150	105	43.5	
200	74	36.6	100.0
270	53	25.9	66.6
325	44	23.2	58.5
400	37	22.0	49.4

TEST RESULTS

Material Charge Wt.-700 mL(r) = 2,428
 Test Screen (μm) = 74
 Undersize in Feed (%) = 36.64
 Circulating Load (%) = 251
 Gby (ave.) = 1.24
 Product P_{70} (μm) = 61.6
 Feed F_{70} (μm) = 856
 W (kWh/ton) = 14.9
 W (kWh/tonne) = 16.4

* Bond, F.C. Crushing and Grinding Calculations, Part I and II. British Chemical Engineering 6: 37-391, 543-544, 1960.

FILE No. 949 10/09 '01 13:06 ID: TILBURY CEMENT
 FAX: 949 2420



SAYWARD MAGNETITE PROJECT

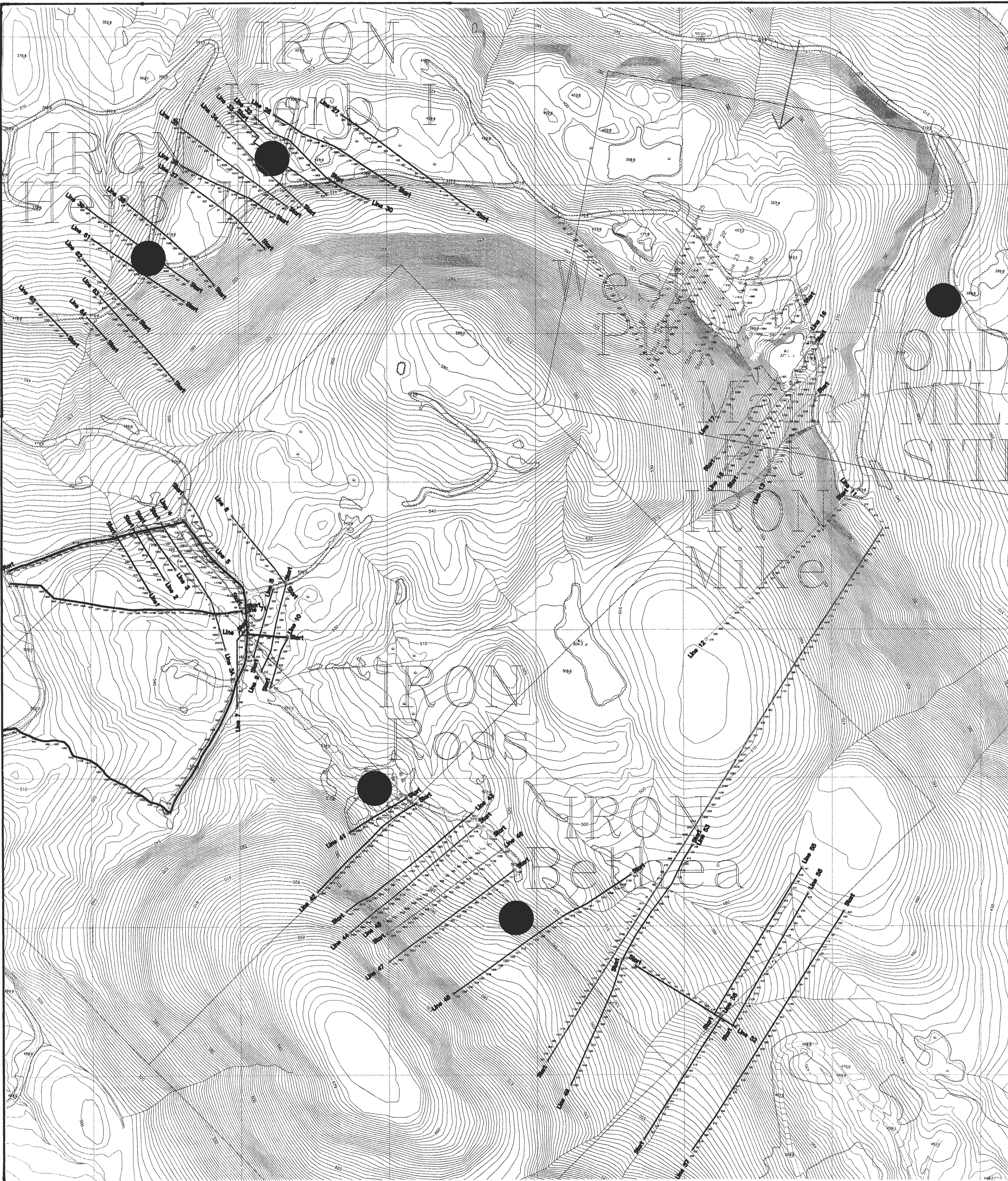
SCALE: 1:10,000	DATE
	May 2003

LOCATION MAP
SHOWING CLAIM BOUNDARIES
AND
KNOWN MAGNETITE OCCURRENCES

HILLSBOROUGH RESOURCES LTD

FIGURE 9
GEOLOGICAL SURVEY
ASSESSMENT
FIGURE 9
SAYWARD MAP

27,438



0 50 100
 1:2000
 MAP II

FIGURE 11
IRON ROSS PROJECT
 LOCATION of Magnetometer Lines

27,439
 GEOLOGICAL SURVEY BRANCH
 ALBERTA

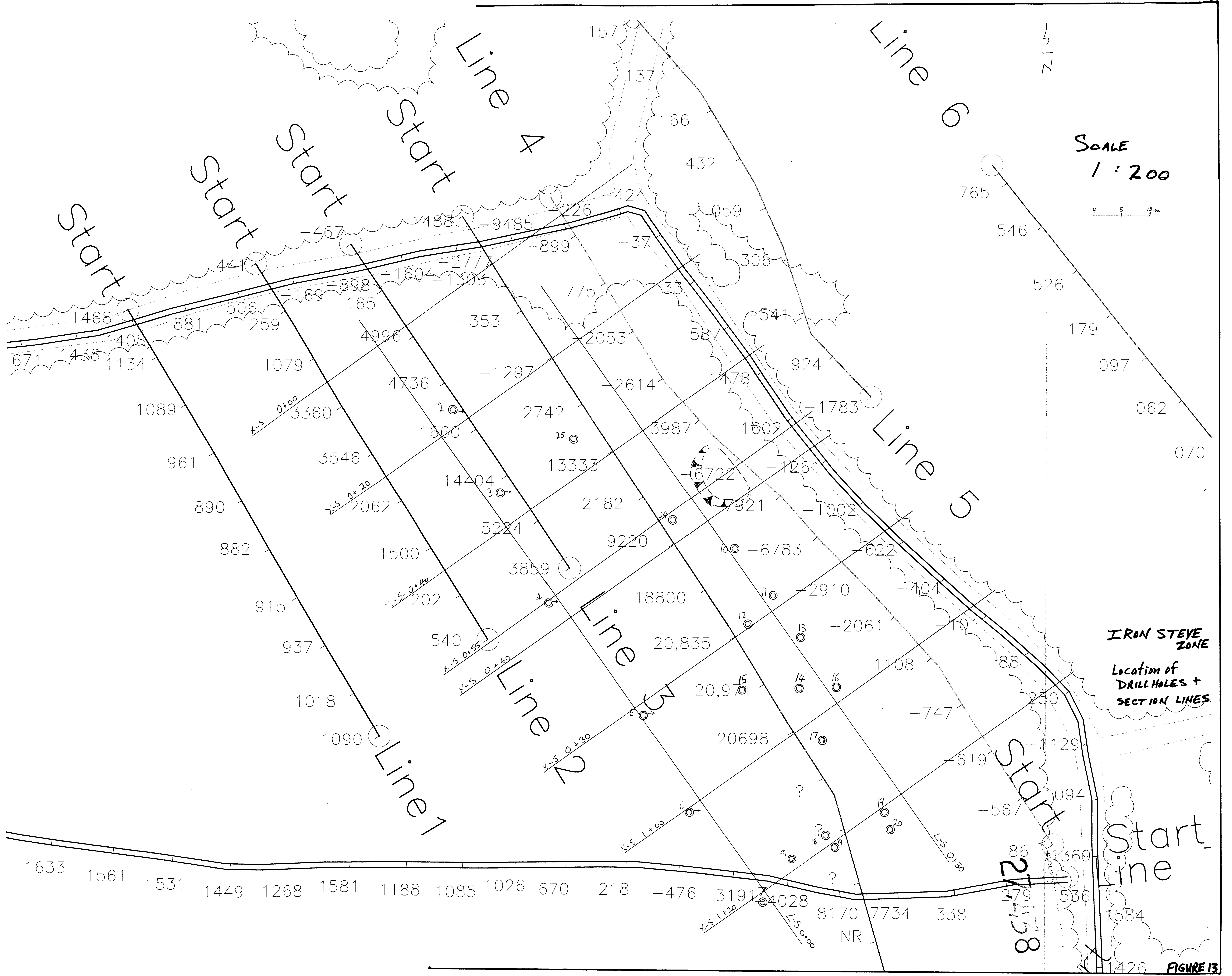
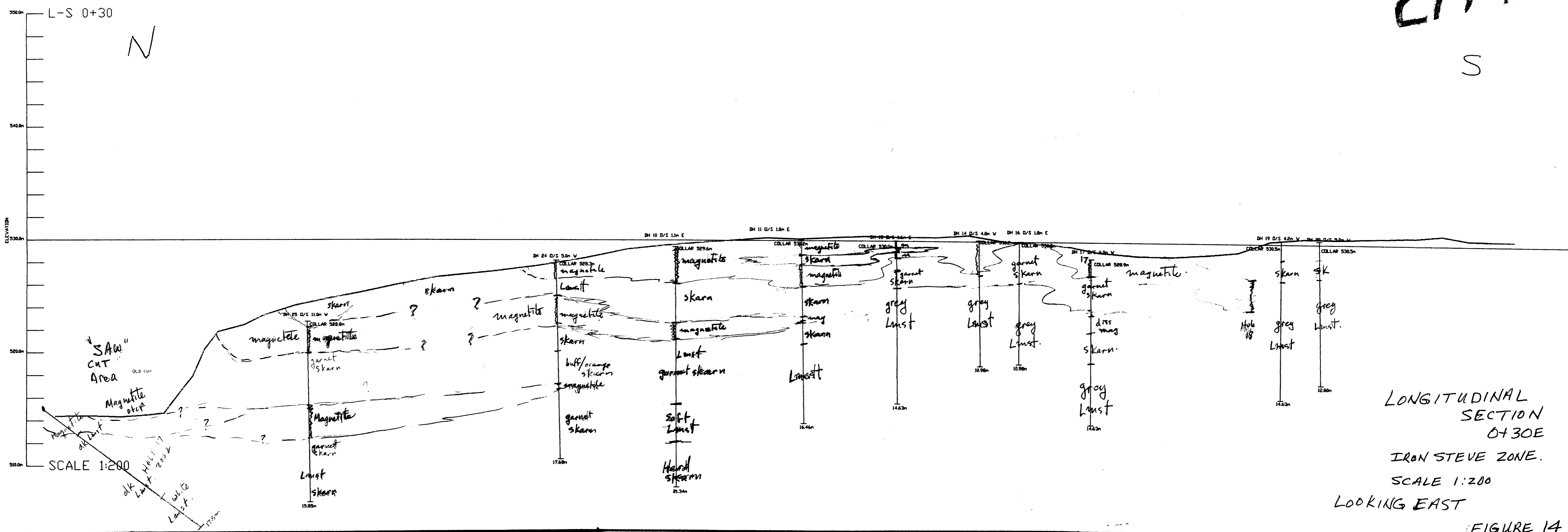


FIGURE 13

27,438

S

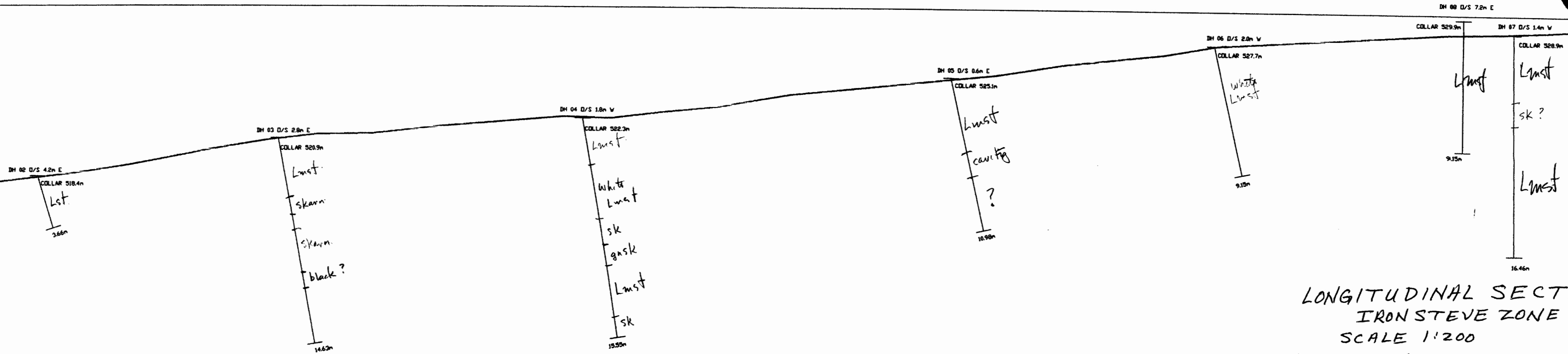


LONGITUDINAL SECTION
0+30E
IRON STEVE ZONE.
SCALE 1:200
LOOKING EAST

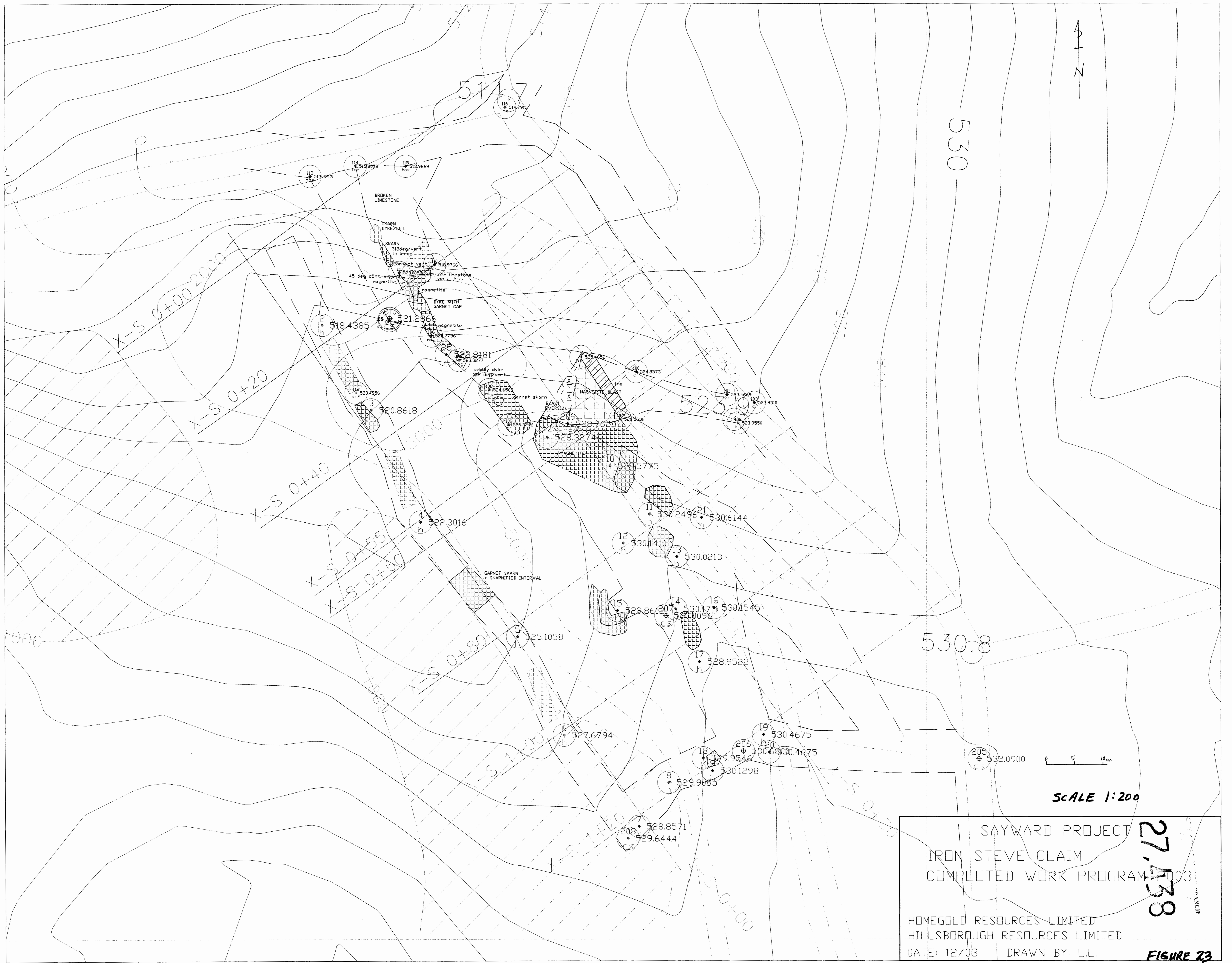
FIGURE 14

L-S 0+00
 N
 ELEVATION
 550.0m
 540.0m
 530.0m
 520.0m
 510.0m
 SCALE 1:200

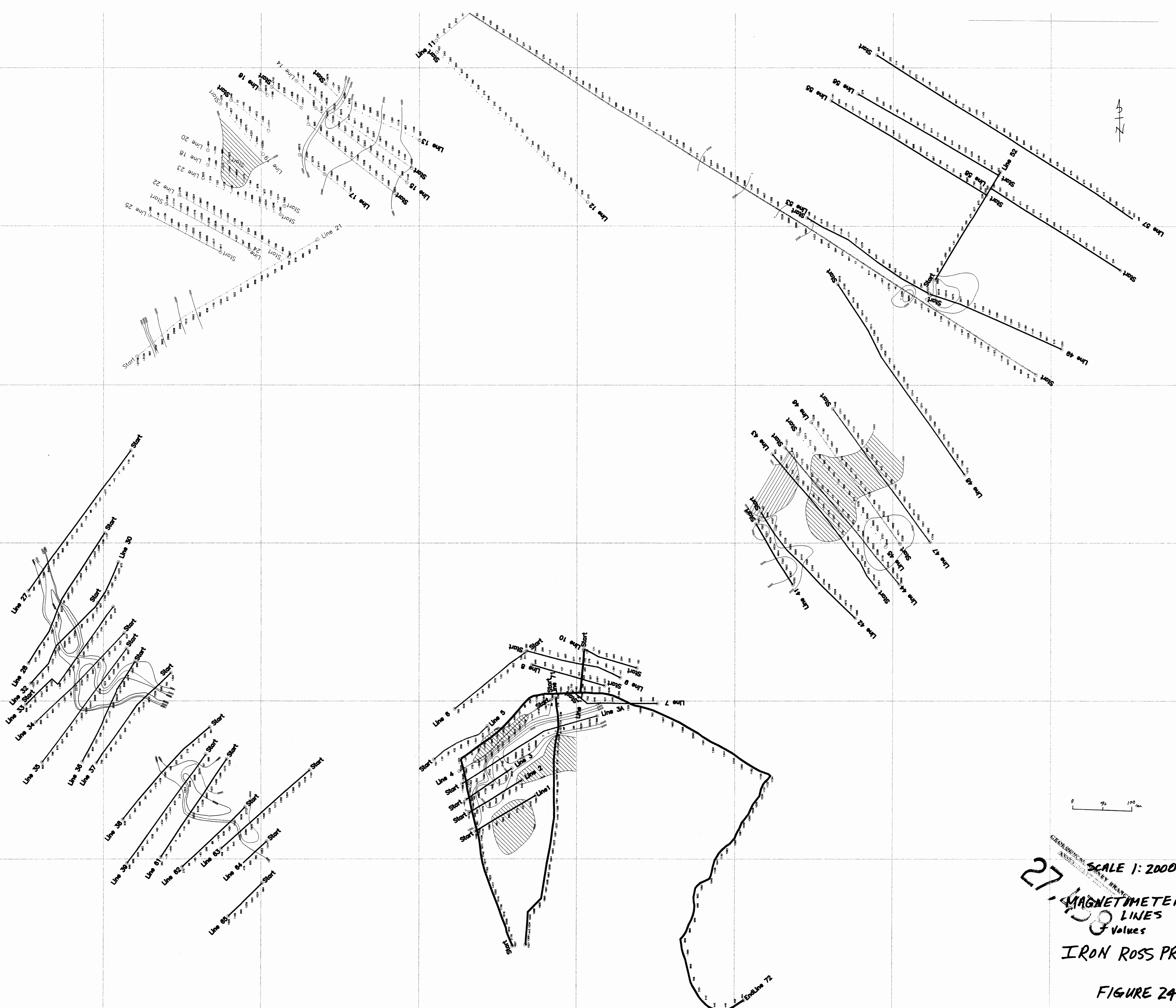
GEOLOGICAL SURVEY
 ASBESTOS
 27,438



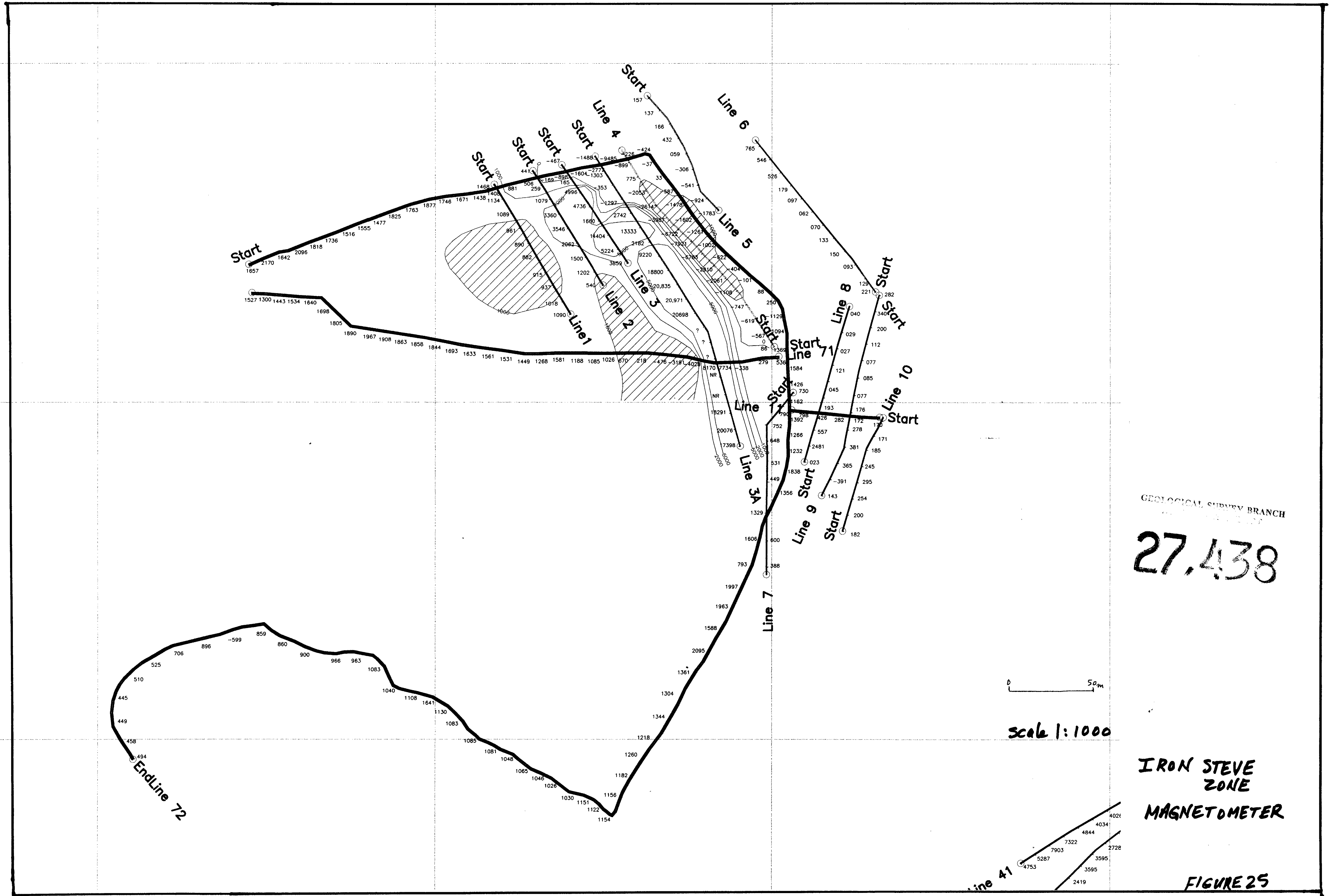
LONGITUDINAL SECTION 0+00
 IRONSTEVE ZONE
 SCALE 1:200
 LOOKING EAST
 FIGURE 15



SAYWARD PROJECT
 IRON STEVE CLAIM
 COMPLETED WORK PROGRAM 2003
 27.1538
 HOME GOLD RESOURCES LIMITED
 HILLSBOROUGH RESOURCES LIMITED
 DATE: 12/03 DRAWN BY: L.L.
 FIGURE 23



27
 GEOMETRICAL SKETCH
 SCALE 1:2000
 MAGNETOMETER LINES
 Values
 IRON ROSS PROJECT
 FIGURE 24

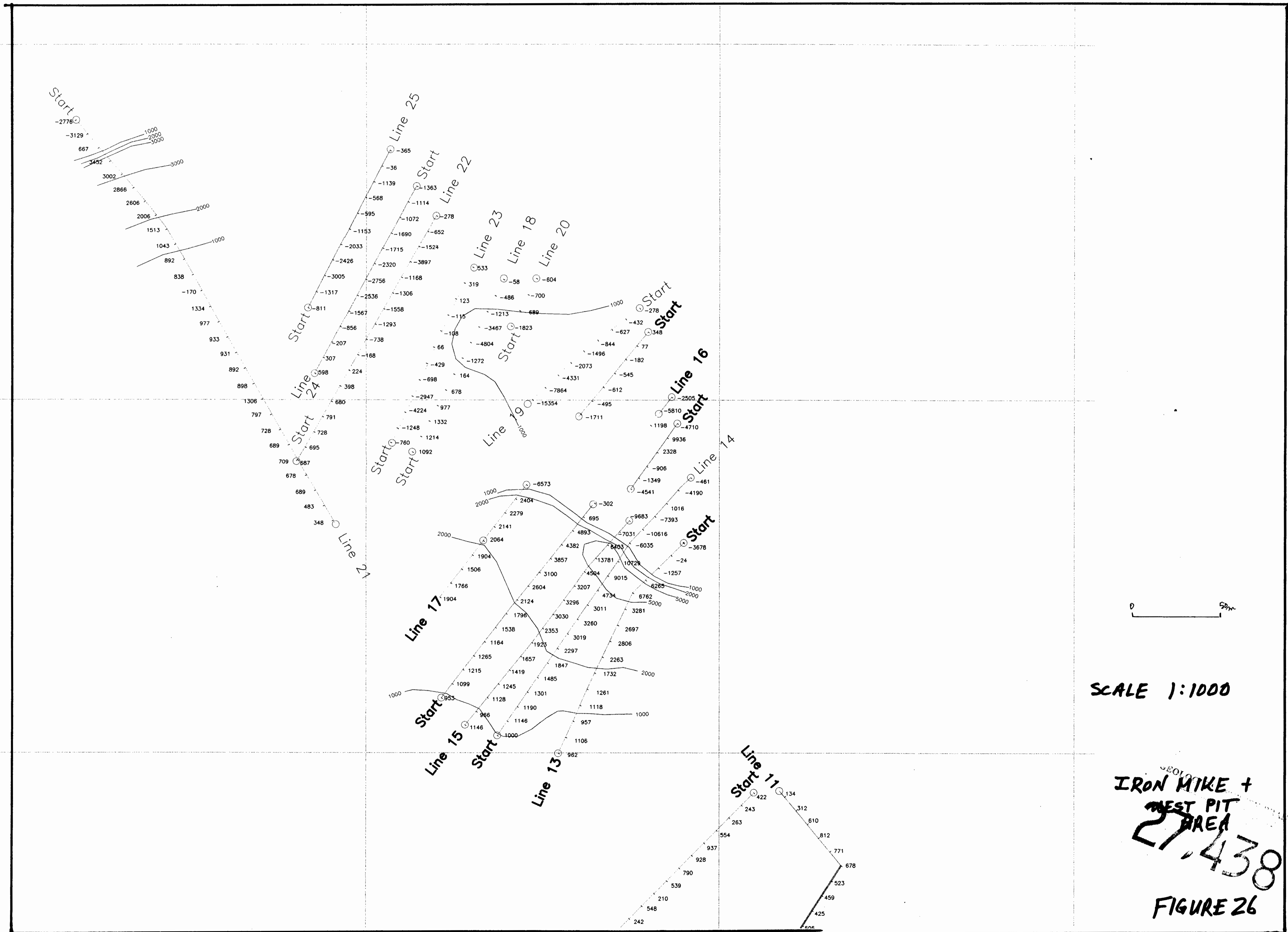


GEOLOGICAL SURVEY BRANCH
 27.438

0 50m
 scale 1:1000

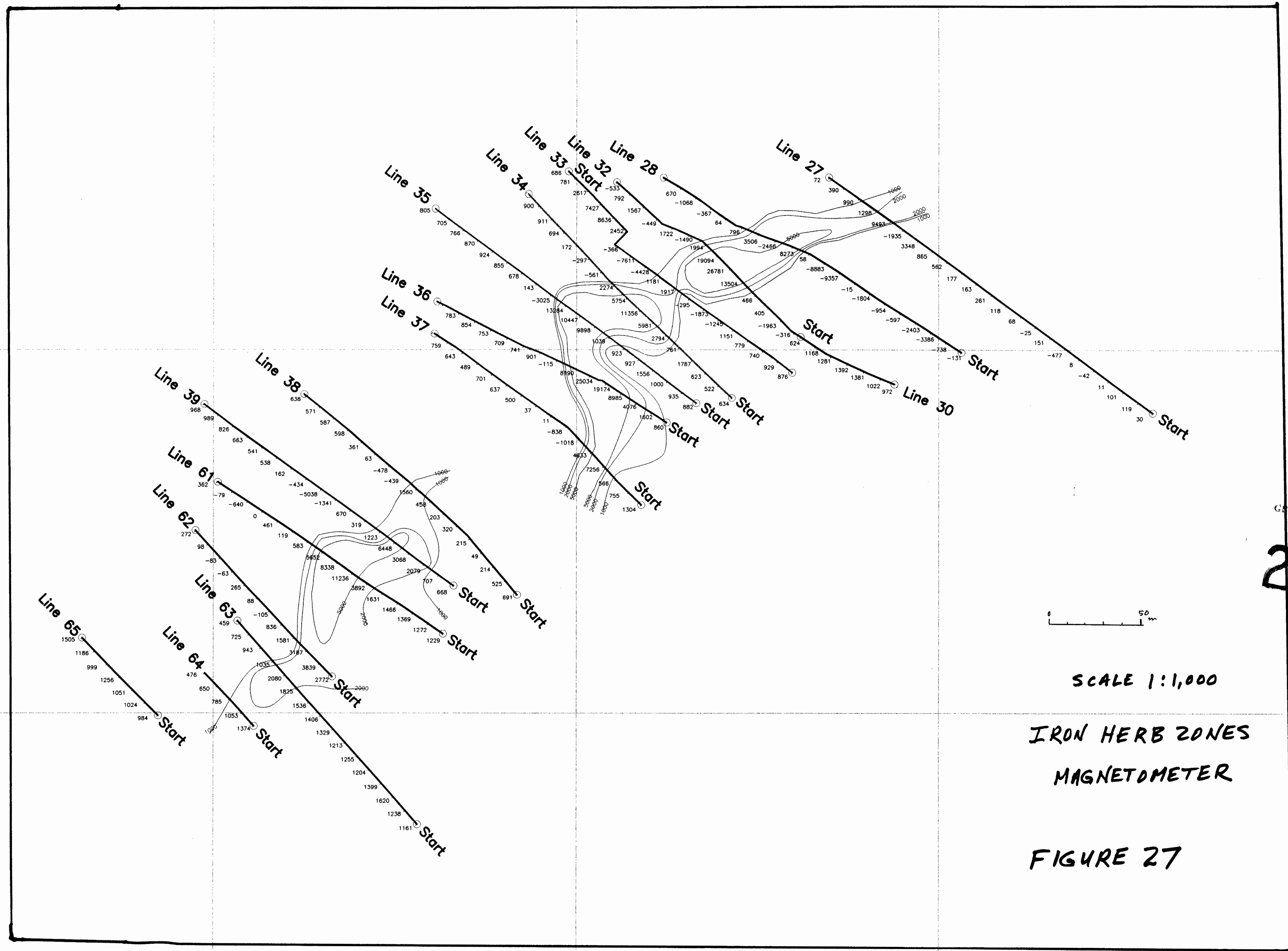
IRON STEVE
 ZONE
 MAGNETOMETER

FIGURE 25



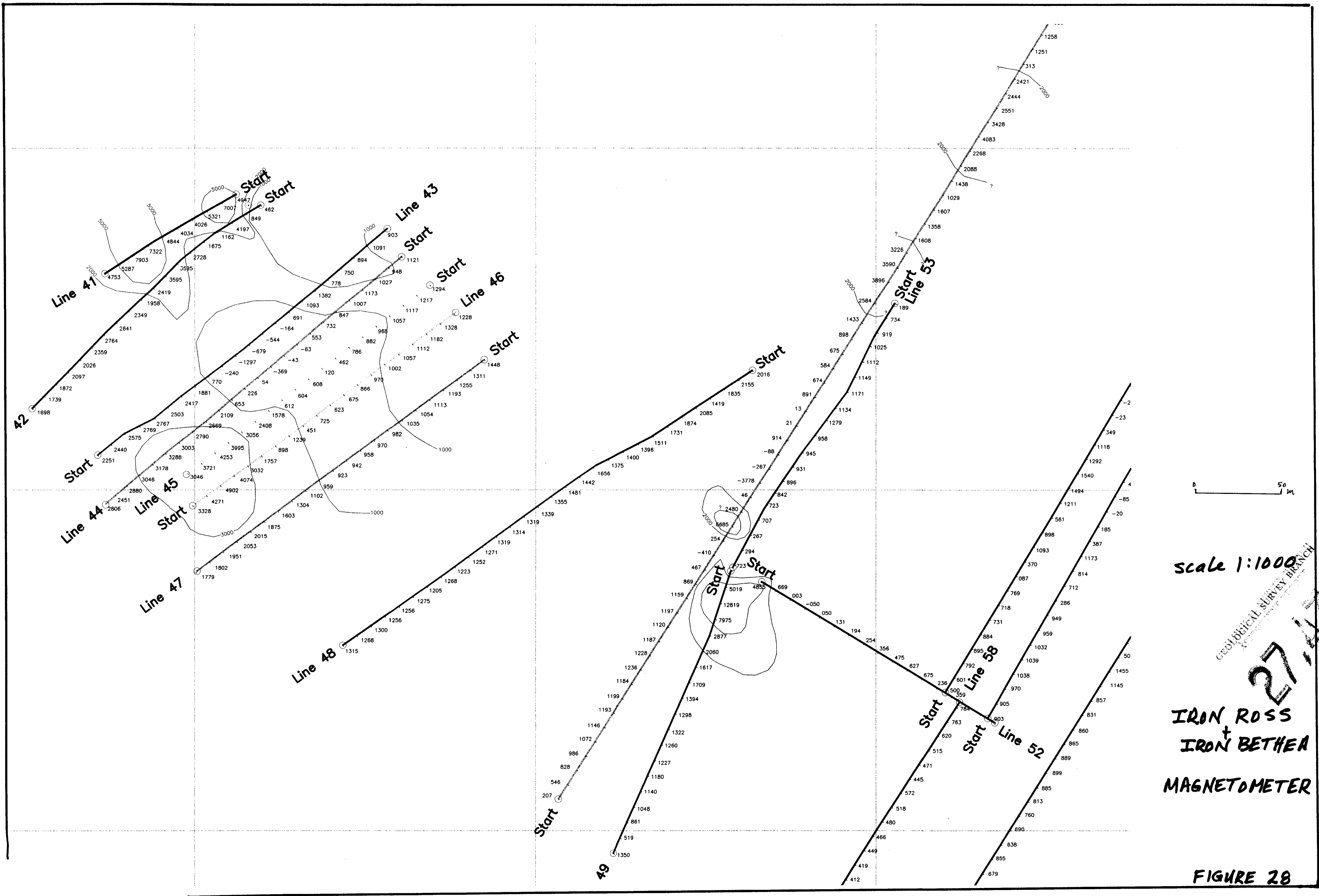
SCALE 1:1000

IRON MIKE +
WEST PIT
AREA
27-438
FIGURE 26



GEOLOGICAL SURVEY BRANCH
 ASSESSMENT REPORT
 27.438

SCALE 1:1,000
 IRON HERB ZONES
 MAGNETOMETER
 FIGURE 27



scale 1:1000

IRON ROSS
+
IRON BETHA
MAGNETOMETER

FIGURE 28

GEOLOGICAL SURVEY BRANCH
27/4/58