

BRITISH COLUMBIA
PROSPECTORS ASSISTANCE PROGRAM
MINISTRY OF ENERGY AND MINES
GEOLOGICAL SURVEY BRANCH

PROGRAM YEAR: 1996/1997

REPORT #: PAP 96-53

NAME: MARY LUTJEN

**BRITISH COLUMBIA
PROSPECTORS ASSISTANCE PROGRAM
PROSPECTING REPORT FORM (continued)**

B. TECHNICAL REPORT

- One technical report to be completed for each project area.
- Refer to Program Requirements/Regulations, section 15, 16 and 17.
- If work was performed on claims a copy of the applicable assessment report may be submitted in lieu of the supporting data (see section 16) required with this TECHNICAL REPORT.

Name Mary A. Lutjen Reference Number 96/97 P114

LOCATION/COMMODITIES

Project Area (as listed in Part A) Nariko Project 82L/14W MINFILE No. if applicable _____

Location of Project Area NTS 82L/14W Lat 51 03 Long 119 28

Description of Location and Access see enclosed assessment report

Main Commodities Searched For _____

Known Mineral Occurrences in Project Area _____

WORK PERFORMED

1. Conventional Prospecting (area) see enclosed assessment report
2. Geological Mapping (hectares/scale) _____
3. Geochemical (type and no. of samples) _____
4. Geophysical (type and line km) _____
5. Physical Work (type and amount) _____
6. Drilling (no., holes, size, depth in m, total m) _____
7. Other (specify) _____

SIGNIFICANT RESULTS

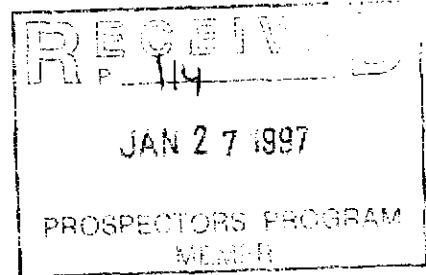
Commodities Cu 2926 ppm, Zn 1193 ppm, Au 140 Claim Name Nariko 1-8

Location (show on map) Lat _____ Long ppb Elevation _____

Best assay/sample type _____

Description of mineralization, host rocks, anomalies see assessment report

**ASSESSMENT REPORT
ON THE
MARIKO 1-8 CLAIMS**



PHYSICAL, GEOCHEMICAL AND GEOPHYSICAL

SHUSWAP LAKE AREA
LATITUDE 51 deg 03 min LONGITUDE 119 deg 28 min
NTS 82I/14W

BY

MARY A. LUTJEN
Certified Free Miner No.116218
Rural Route 1
Box 12
Lee Creek, British Columbia
January 1997

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INTRODUCTION The Mariko 1-2 Claims were staked on the 14th of June 1994 to cover an outcrop discovery of malacite, azurite and galena found during a regional survey of the area. The Mariko Claims are located in the Southwest quadrant of Croweoot Mountain, NTS 82L/14W, and are accessed via the Squilax/Anglemont highway to line 17 Road, then to Garland Road, from the end of Garland Road go 2.2 km to Onyx Creek Bridge, then 3.5 km to a Logging Landing, then approximately 400 m at an azimuth of 6 degrees to IP of the Mariko 1 & 2. A sample taken from the discovery zone ran Ag > 30 ppm, As 870 ppm, Ba 20 ppm, Cr 311 ppm, Cu > 10,000 ppm, Mo 17 ppm, Pb, 12 ppm, Sb > 10,000 ppm and Zn 1,992 ppm. The assay results correlated very nicely with some assays that I had done on samples taken from the Samatosum Open Pit. I submitted an application for a Prospectors Grant 1996 on the property and was accepted. In the months of June, July and August 1996 we did stream sediment sampling, topographical contour sampling, prospecting, baselines, gridlines, geochemical sampling, magnetometer surveys, VLF/EM surveys, and mapping. On the 24th of July 1996 I expanded the Mariko Claims to eight units, the Mariko 1-8 Claims. Work to date has outlined a lower zone of silicified limestone replacements, mineralized with galena, pyrite, antimony, copper, lead, zinc and gold; and, an upper zone of mineralized sediments in a Sedex type environment, mineralized with pyrite, copper, antimony, lead, zinc, silver and gold. The strike of both the lower zone and the upper zone remain open to the North and South.

PROPERTY AND OWNERSHIP The Mariko 1-8 Claims are eight 2-post claims staked in the Kamloops Mining Division and recorded in Kamloops, B.C. on the 30th of June 1996. All eight claims are 100% owned by Mary A. Lutjen; Rural Route 1, Box 12; Lee Creek, British Columbia; V0E-1M0. The claim dates are as follows:

Claim	No. of Units	Tenure No.	Record Date
Mariko 1	1	348628	24 July 1996
Mariko 2	1	348629	24 July 1996
Mariko 3	1	348630	24 July 1996
Mariko 4	1	348631	24 July 1996
Mariko 5	1	348632	24 July 1996
Mariko 6	1	348633	24 July 1996
Mariko 7	1	348862	28 July 1996
Mariko 8	1	348863	28 July 1996

LOCATION AND ACCESS The Mariko 1-8 Claims are located on NTS map 82L/14W to the East of Onyx Creek and North of Shuswap Lake. Access by road is available 6 months of the year and snowmobile the remainder. The Squilax/Anglemont Highway is an all weather road open 12 months of the year along with Line 17 and Garland road. Access would also be possible by helicopter 12 months of the year.

HISTORY There are no known mining operations in the area but several occurrences have been documented. The first is Crowfoot Mountain where mineralization occurs as replacement of limestones and marble bands of the Eagle Bay Formation. On the Bet Claims a sample, ran 28% lead, 17% zinc, 2,400 grams per ton silver and a trace of gold. On the Saul Claims mineralization consisted of two quartz filled veins, 13 meters apart, in green chloritic schist. The veins were mineralized with galena, chalcopyrite and "tin" minerals and occur as replacement of limestone and marble bands. The second is Anglemont Mountain where mineralization occurs in graphitic schists in contact with limestones, dolomites and limy quartzites of the Eagle Bay Formation. On the MB Claim a 1.5 to 2.0 meter wide, flatly dipping quartz vein strikes WNW containing argentiferous galena. The third is Onyx Creek where mineralization is also found in silicified limestone of the Eagle Bay Formation. On the Onyx Claim some very high grade galena was found associated with quartz in a sedimentary package.

PHYSIOGRAPHY The Mariko 1-8 Claims lie at an altitude from 762 meters to 1,372 meters with two small streams flowing through the North and South sections of the Claim Group. The terrane is mountainous and the slopes are generally steep. The dense underbrush consists of vine alders, willows, devils club and buck brush. The trees include cedar, hemlock, fir, cottonwood, pine and spruce. There is no timberline and the property is mostly forested. Several logging roads run through the property and Hydro is only 4 km away from the discovery zone.

REGIONAL GEOLOGY The property is underlain by Paleozoic graphitic schists in contact with limestone, dolomite and quartz of the Eagle Bay Formation. At the discovery a shear zone of silicification has dolomitized the limestone and produced a mineralized structure that is several meters wide and extends for over a 100 meters to the North. The shear zone is flat lying at about 10 to 30 degrees and dips to the West. The limestones are believed to be related to the Tshinikan member of the Eagle Bay Formation which outcrops in the headwaters of Onyx creek. The altered weathered outcrops are buff brown with white quartz veins running through them. The mineralization is predominantly pyrite with galena, malacite, azurite, calcopyrite, tetrahedrite and arsenopyrite. On the upper zone, located on baseline 700N + 100E, the host rocks are carbonaceous black shales, silicified limestones, conglomerates, quartz veins and cherty argillites. The mineralization is pyrite, arsenopyrite, barite, chalcopyrite, silver, lead and zinc, with minor amounts of nickel, chromium and molybdenum. This type of deposit is typically comprised of many beds of sulfides stacked one on top of the other with more than one bed economic. Individual laminae or beds may persist for over tens of kilometers within the depositional basin. Lines running to the West have minor outcrops of granitic gneiss that are believed to underlie the sedimentary package.

GEOLOGICAL SETTING Devonian granitoid gneiss of the Mount Fowler suite form discordant to subconcordant sheets within the Eagle Bay assemblages. The suite is typified by medium to coarse-grained granodiorite gneiss that contains up to 25% biotite, is strongly foliated, and commonly bears a lineation defined by biotite aggregates and quartz ribbons. Granitoid gneiss that intrudes the Shuswap assemblages at Celista Mountain looks identical to the Mount Fowler gneiss and thus probably is also Devonian. The Eagle Bay assemblage consists of a tripartite stratigraphic succession (units Ec, Em and Eq) that are structurally repeated by folds and possible thrusts, within which stratigraphic tops have yet to be identified. Ec is a heterogeneous assemblage of thinly interbedded calcisilicate schists, fine-grained grey and brown marble, quartz-sericite-phyllite, epidote-biotite-chlorite-actinolite schists. The latter schists are abundant and in some places dominant. Em is a white to medium grey marble. Eq is a light brown to greenish grey quartzite, biotite-quartz-muscovite schist, and minor conglomerates. The section is mostly inverted between Sicamous and Queest Mountain, is repeated by tight folds and possible thrusts in the Queest Mountain area and is right-way-up at North Queest Mountain.

1996 EXPLORATION PROGRAM On the 3rd of June 1996 we started the Mariko Project with stream sediment sampling and finished up with geophysical surveys on the 16th of August 1996. An outline of the program was as follows:

1. Stream sediment sampling .
2. Lithochemical sampling on topographical contours.
3. Prospecting and sampling the discovery zone.
4. Baseline construction.
5. Gridline construction.
6. Geochem sampling of baseline and gridlines.
7. Magnetometer survey over baseline and gridlines.
8. VLF/EM survey over baseline and gridlines.
9. Expanded the gridlines

10. Geochem sampling of expanded gridlines.
11. Magnetometer survey over expanded gridlines.
12. Prospecting, sampling and mapping the Mariko Claims.
13. VLF/EM survey over expanded gridlines.

STREAM SEDIMENT SAMPLING from the 3rd of July until the 7th Of July 1996. We sampled the two major drainages that cut the Mariko 1-8 Claims, one in the south and one in the north (see Stream Sediment Sample Map). The sampling program of the southern drainage started at its headwater and the first sample was labeled ML-SS-1-96; as follows, ML = Mary Lutjen, SS = stream sediment sample, 1 = sample #1, and 96 = the year of work 1996. From the headwaters of the southern drainage we traversed southwesterly down stream at 500 meter intervals and sampled the drainage as indicated on the map, ML-SS-1-96 thru ML-SS-7-96. We then sampled the northern drainage close to its headwaters at ML-SS-8-96 and from there down stream at intervals of 500 meters to ML-SS-14-96. All samples were stream sediments taken from the high energy flow of the stream to maximize the heavy metal potential.

LITHOGEOCHEMICAL SAMPLING ON TOPOGRAPHICAL CONTOURS from the 8th of June until the 13th of June 1996. We sampled three topographical contours that cut the Mariko 1-8 Claims (see Topographical Sample Map). The sampling was done at 500 meter intervals to the east and to the west from central reference points. The central reference points were ML-762-00E, ML-915-00E , and ML-1067-00E as follows; ML=Mary Lutjen, 762=762 meter topographical contour line, 00E=starting point on topological contour line. Sampling of the B-horizon was then done at 500 meter intervals to the east and west. The object of the survey was to locate old works, if any, and determine the extent of mineralization. No old works were found. 20 samples were taken from the three contour lines and bagged in 4"x 6" kraft sample bags and each station was flagged and recorded as outlined (see Topographical Sample Map).

PROSPECTING AND SAMPLING THE DISCOVERY ZONE from the 14th, 17th, and 18th of June 1996. We prospected the Discovery Zone (Southern Mineralized Zone) in an attempt to determine the strike and dip of the mineralization. The object of the survey was to determine the azimuth of the baseline that would trend with the mineralization and thus facilitate the geochemical and geophysical surveys to follow. After a detailed prospecting of the area we determined that a 6 degree azimuth on the baseline would best cover the extent of the mineralization as we knew it at that time. Our preliminary work of establishing a 6 degree azimuth baseline was rewarded later when we cut the North Mineralized Zone.

BASELINE CONSTRUCTION from the 19th of June until the 20th of June 1996. At a 6 degree azimuth we established a 1 kilometer baseline just north of the Mariko 3 & 4 Initial Post (IP). We put in the baseline station 00N + 00E and from there at 50 meter intervals chained and slope corrected the baseline to station 1000N + 00E (see Grid Map). A total of 21 stations were picketed and flagged to facilitate gridlines at 100 meter intervals. The line was brushed out and flagged with blue and pink ribbon. No trees were cut and access was maintained by going around the trees on the baseline.

GRIDLINE CONSTRUCTION from the 21st, 24th, and 25th of June 1996. At 90 degree angles to the baseline, gridlines were put in at 100 meter intervals on baseline stations 00N + 00E thru 1000N + 00E. Then each gridline station was flagged at 25 meter intervals from 00N + 00W to 00N + 300 W and 00N + 00E to 00N + 300E thru 1000N + 00W to 1000N + 300W and 1000N + 00E to 1000N + 300E (see Grid Map).

GEOCHEM SAMPLING OF BASELINE AND GRIDLINES from the 26th of June until the 29th of June 1996. We sampled the "B" horizon at 25 meter intervals along the gridlines. The "B" horizon was well developed and most of the samples were in a redish brown dirt. The depth of sampling was from 10 to 20 centimeters and each sample was placed in a brown 4"x 6" Kraft bag and labeled with the corresponding grid location. Sample 00N + 50W as follows; a geochem soil sample taken on line 00N at 50 meters west of the baseline. All samples were logged and stored in cardboard boxes.

MAGNETOMETER SURVEY OVER BASELINE AND GRIDLINES from the 1st of July until the 3rd of July 1996. The object of the survey was to determine possible fault contacts, geological structures, magnetic conductors and mineralized deposits. The magnetometer survey was conducted by Larry D. Lutjen using a Geometrics G-816/826A Total Field Proton Magnetometer serial # 6424. A magnetometer base station was maintained through out the survey and all readings were corrected for diurnal shifts (see Magnetometer Survey Map). The values were normalized by subtracting 57,000 gammas from each corrected station reading. This facilitated the contouring and all of the values were positive. For example station 00N + 00E is recorded 385 but was calculated 57,385 gammas after corrections and 57,000 was subtracted. The Geometrics G-816/826A magnetometer is capable of measuring a 1 gamma difference in the earth's total magnetic field. Changes in the total magnetic field at any one place in time can be generated by geological structures, metallic conductors, changes in the magnetic poles, and fault contacts. Metallic deposits that contain magnetic materials such as magnetite will generally give you a magnetic high while deposits that have been remelted by volcanism will generally give you a magnetic low. The results of the magnetometer survey were quite favorable and outlined both the north zone and the south zone as magnetic lows trending with the surface expression of the mineralization. There appears to be a break between the north zone and the south zone but because of the extent of overburden and lack of outcrop this could account for the disparity. Both zones appear to be open to the south and north. A highly mineralized carbonaceous black shale lense is exposed in the north zone and is presumed to overlie the silicious limestones on the south zone (?).

VLF/EM SURVEY OVER BASELINE AND GRIDLINES from the 4th of July until the 6th of July 1996. The object of the survey was to look for possible conductors such as fault contacts, geological structures, and mineralized deposits. The survey was done by Larry D. Lutjen with a Sabre model 27 VLF/EM serial #274 using Seattle, Washington at 18.6 KHz as the transmitting station (see VLF/EM Survey Map). The VLF/EM method utilizes electromagnetic fields transmitted from radio stations in the 15 - 25 KHz range. The signals are propagated with the magnetic component of the field horizontal to the direction of propagation in undisturbed areas. Conductivity contrasts in the earth create secondary fields that produce a vertical component with changes in field strength, attitude, and amplitude. These conductive areas are then located with the aid of a very delicate instrument, the Sabre model 27, and evaluated by measuring the various parameters. A contourable analysis of the survey is then done with a Fraser Filter plot. The Fraser Filter plot takes the sum and difference of four consecutive dip-angles from west to east, on a north/south baseline, to plot and contour the secondary field dip angle. The resultant positive plots are proportional to the conductor that has generated the secondary field. The results of the VLF/EM survey were most favorable over the mineralized zones both in the south and in the north. They outlined the mineralization in both zones and trend with the magnetometer survey. Both deposits remain open to the north and to the south.

EXPANDED THE GRIDLINES from the 7th of July until the 8th of July 1996. We added another 100 meters to the east gridlines to pick up any additional geophysical anomalies and extend the existing anomalies that were open and continuing to the east. All stations were flagged at 25 meter intervals from 00N + 300E to 400E up to and including 1000N + 300E to 400E.

GEOCHEMICAL SAMPLING OF EXPANDED GRIDLINES from 9th of July until the 10th of July 1996. We sampled the "B" horizon at 25 meter intervals along the extended gridlines. The depth of the sample was from 10 to 25 centimeters and each sample was placed in a 4"x 6" Kraft bag and labeled with the corresponding grid station. All samples were logged and stored in cardboard boxes.

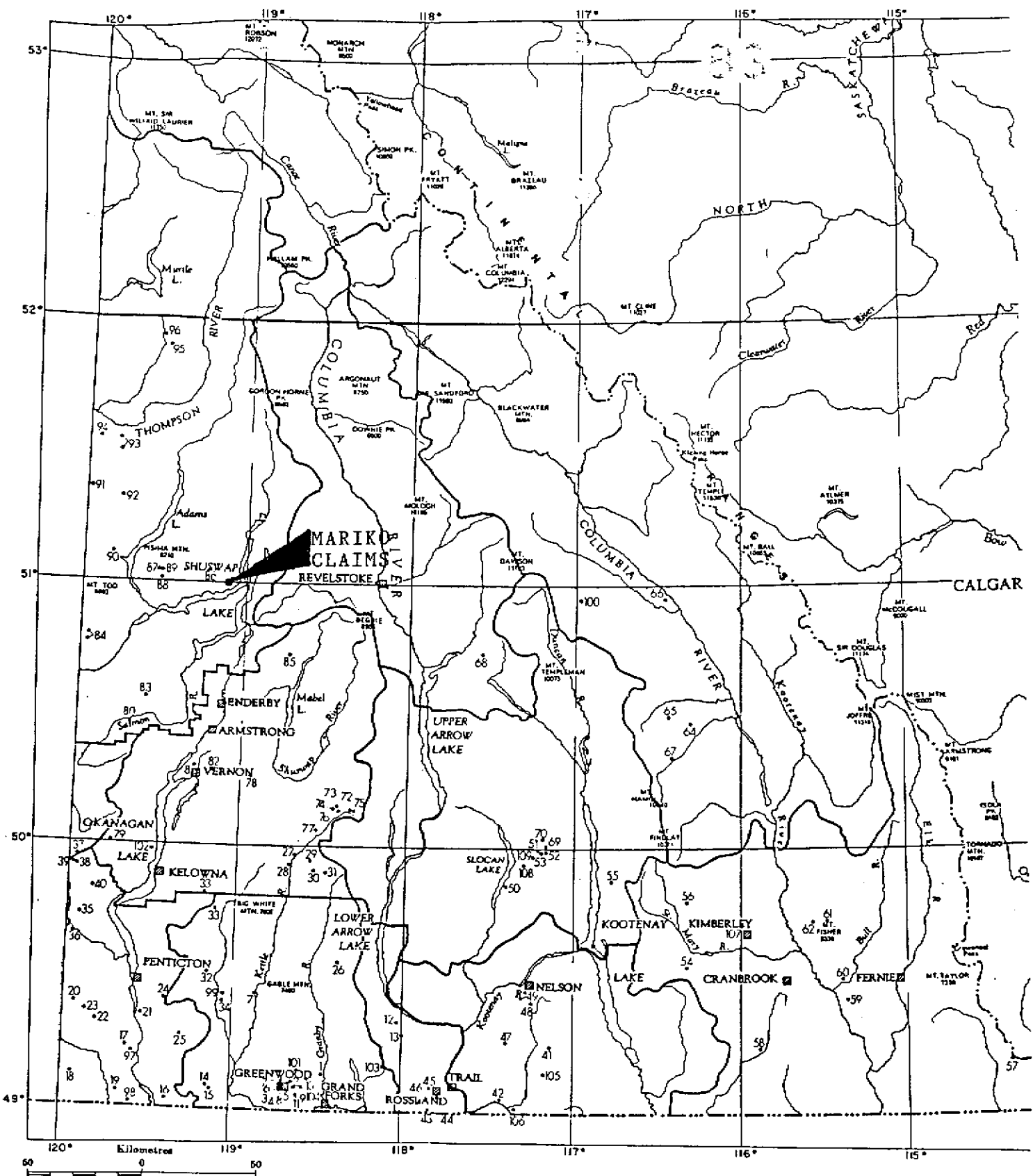
MAGNETOMETER SURVEY OVER EXPANDED GRIDLINES from the 11th of July until the 12th of July 1996. The extended magnetometer survey was done by Larry D. Lutjen using the same

magnetometer as the first survey serial # 6424. The data was also corrected and recorded on magnetometer map (see Magnetometer Survey Map).

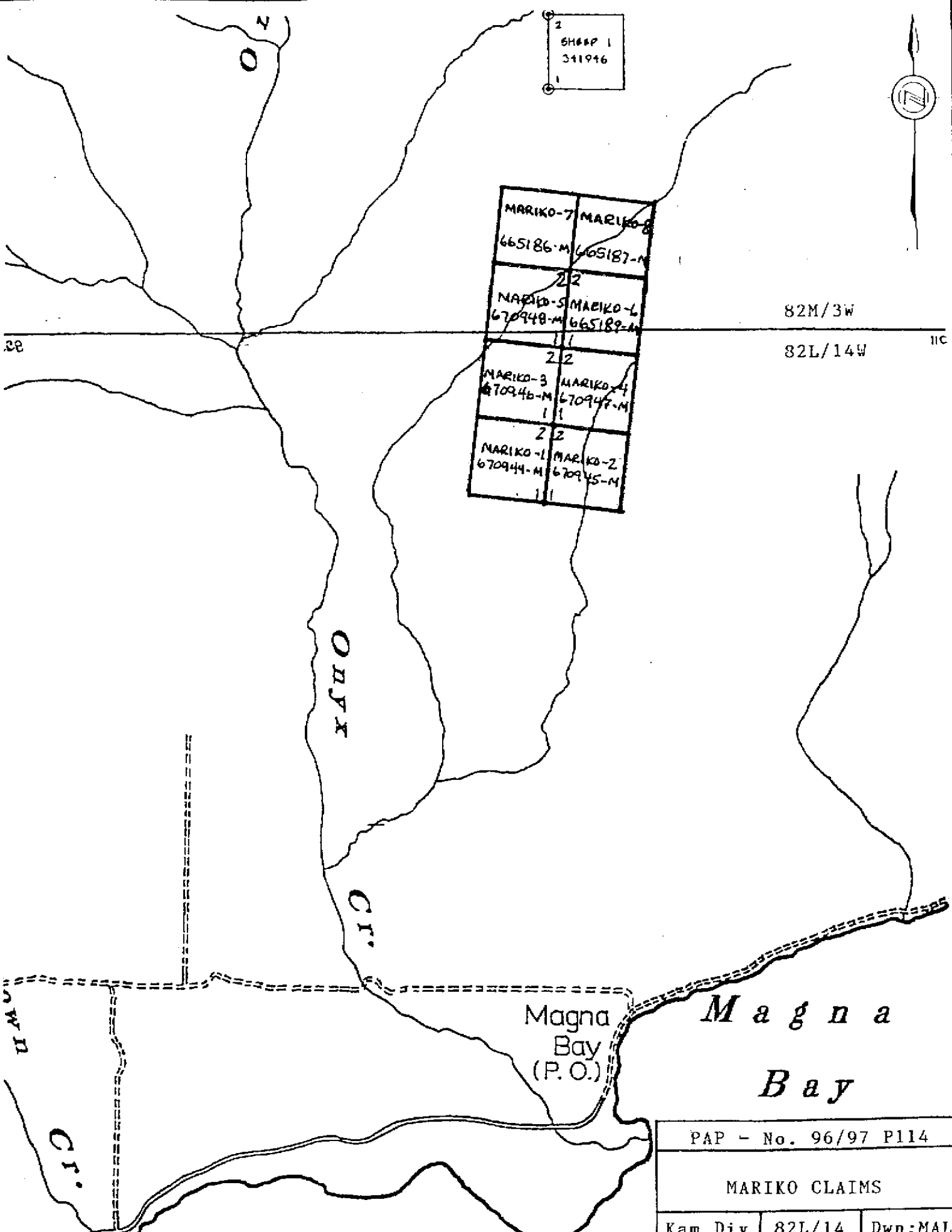
PROSPECTING, SAMPLING, AND MAPPING THE MARIKO CLAIMS from the 15th of July until the 18th of July 1996, including the staking of the Mariko 1-6 on the 24th of July 1996 and the staking of the Mariko 7-8 on the 28th of July 1996. Using the baseline and gridlines we tied in the roads, creeks, and lithogeochemical sample locations. All samples were rock, taken in place and flagged. Sample ML-1-96 as follows; ML=Mary Lutjen, 1=lithogeochemical sample #1, and 96=1996. Assay Results of the samples are recorded on the certificates of analysis, Ecotech Laboratories, Kamloops, B.C. (see ICP Certificate of Analysis).

VLF/EM SURVEY OVER EXPANDED GRIDLINES from the 14th of August until the 16th of August 1996. The extended VLF/EM survey was done by Larry D. Lutjen using the same Sabre model 27 serial # 274. The data was also Fraser Filtered and recorded on VLF/EM survey map (see VLF/EM Survey Map). On the 14th of August we were joined in the field by Mike Cathro, district geologist, who examined the north zone and the south zone.

CONCLUSIONS are that the Mariko 1-8 Claims represent an exciting new discovery in the Suswap Metamorphic Complex. Lithogeochemical sampling resulted in copper values to 2926 ppm, zinc values to 1193 ppm, silver values to 2.4 ppm, moly values to 41 ppm, lead values to 36 ppm, antimony values to 55 ppm, nickel values to 204 ppm, gold values to 140 ppb, arsenic values to 150 ppm, and barite values to 210 ppm. With the discovery of the north zone and the mineralized carbonaceous black shale, open to the north and to the east, the potential for a Sedex type deposit is extremely good.



PAP - NO.96/97 P114		
LOCATION MAP		
Kam Div	82L/14W	Dwn: MAL
Aug 1996	B.C.	Fig. 1



2
SHEEP 1
311946
1

MARIKO-7 665186-M	MARIKO-8 665187-M
2 2	
MARIKO-5 670948-M	MARIKO-6 665189-M
1 1	
2 2	
MARIKO-3 670946-M	MARIKO-4 670947-M
1 1	
2 2	
MARIKO-1 670944-M	MARIKO-2 670945-M
1 1	

82M/3W

82L/14W

11C

OHYX

CR.

Magna Bay
(P.O.)

M a g n a
B a y

PAP - No. 96/97 P114

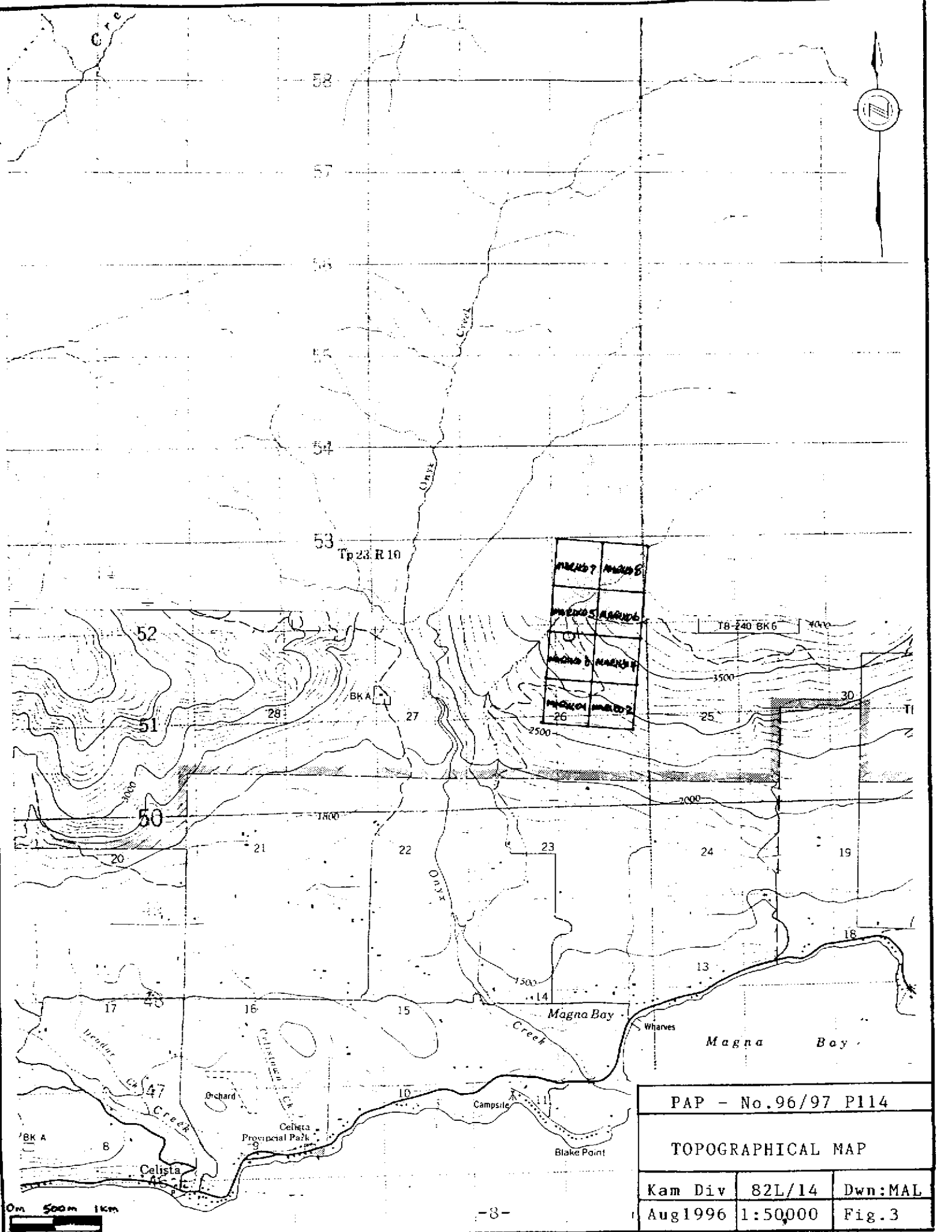
MARIKO CLAIMS

Kam Div	82L/14	Dwn: MAL
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AUG1996	1:31,680	Fig. 2
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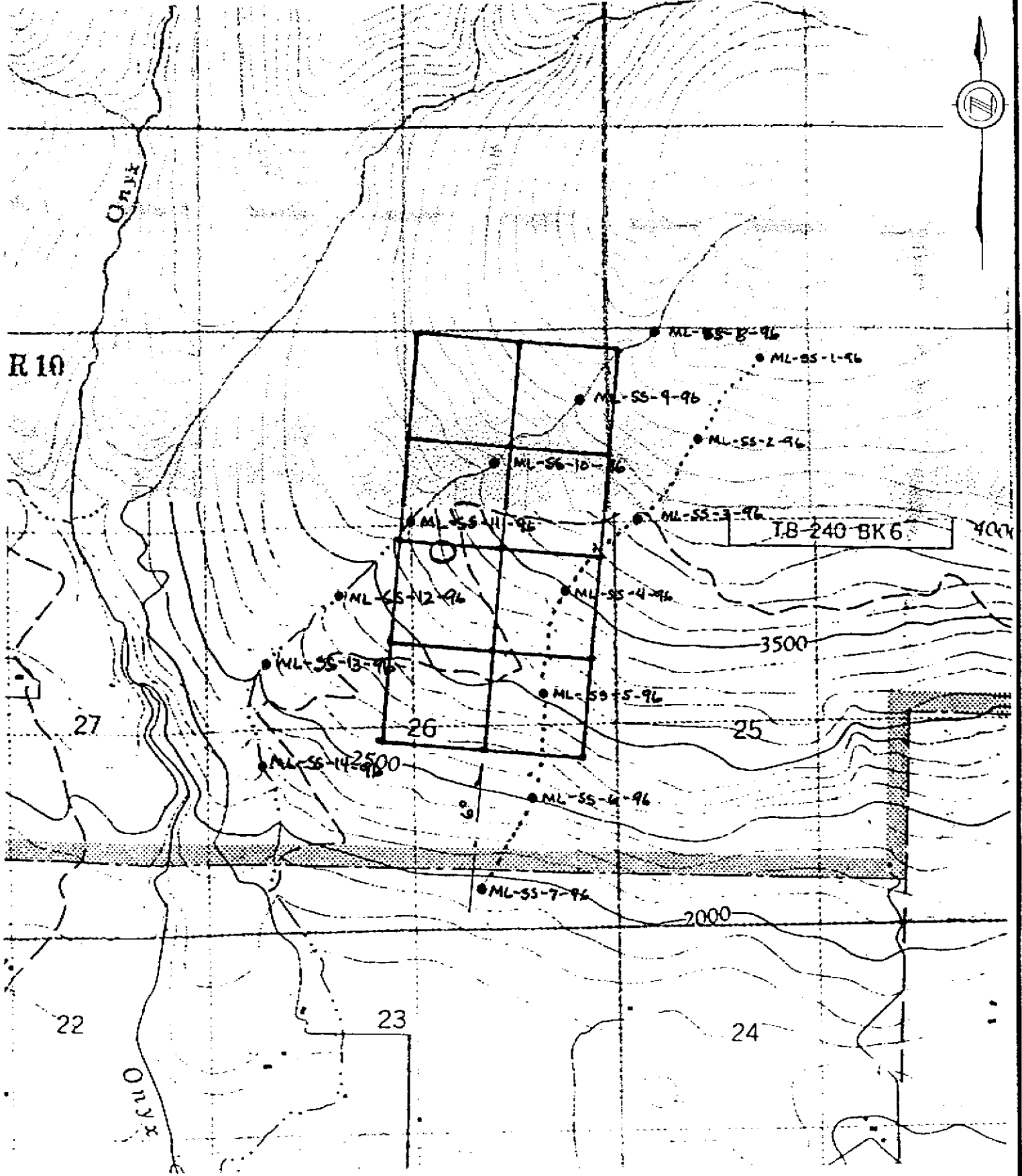
0m 500m 1000m

Blake



PAP - No.96/97 P114		
TOPOGRAPHICAL MAP		
Kam Div	82L/14	Dwn: MAL
Aug 1996	1:50000	Fig. 3

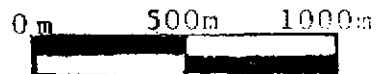
R 10



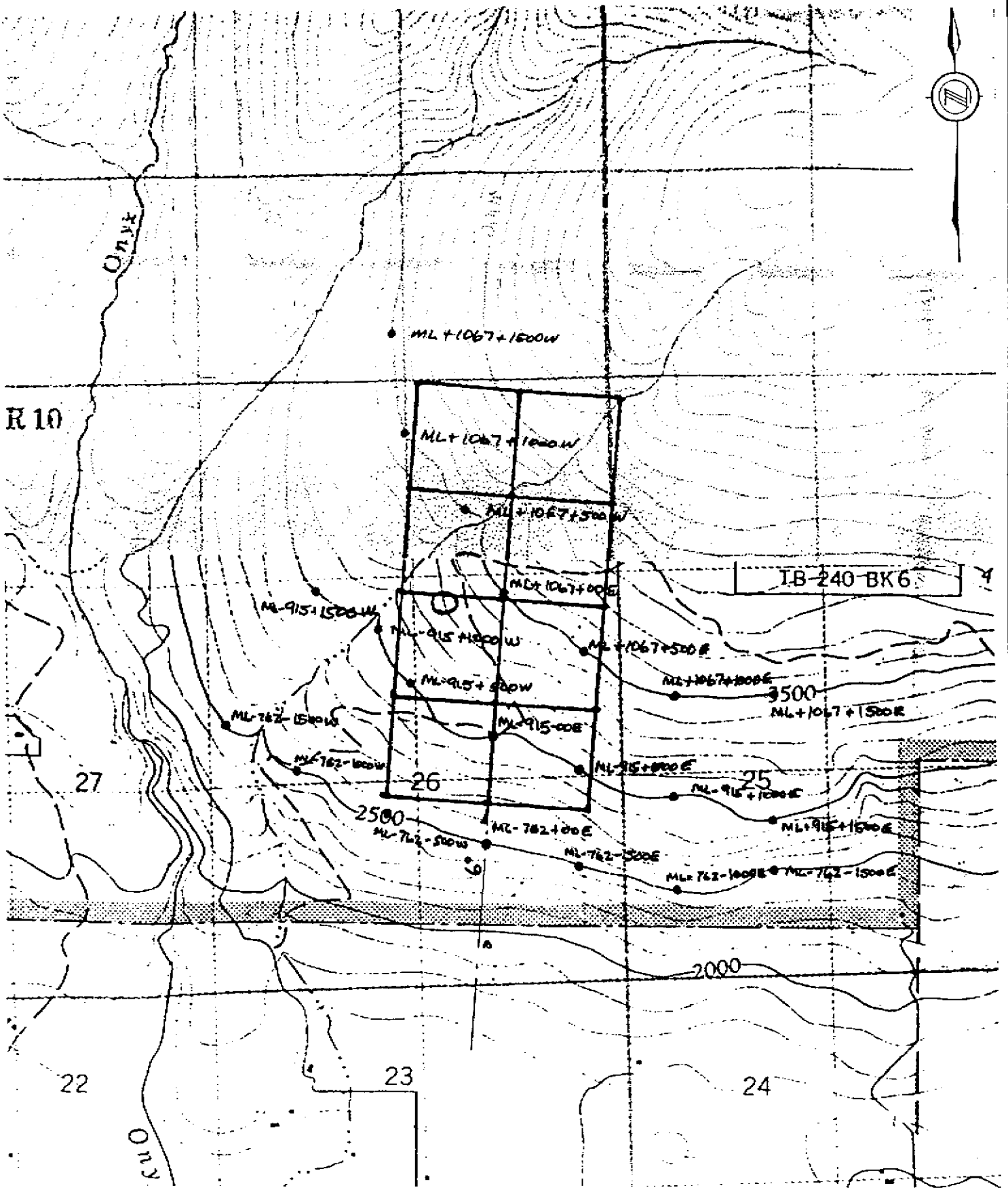
TB-240-BK6

3500

2000



PAP - No.96/97 P114		
STREAM SEDIMENT SAMPLING MAP		
Kam Div	82L/14W	Dwn: MAL
Dec1996	1:31,680	Fig.4



ML+1067+1500W

R 10

ML+1067+1000W

ML+1067+500W

IB-240-BK6

ML-915+1500W

ML+1067+000E

ML+1067+500E

ML-915+1000W

ML+1067+1000E

3500

ML-915+500W

ML-762+1500W

ML-915+000E

ML+1067+1500E

27

26

25

ML-915+1000E

2500

ML-762+500W

ML-762+000E

ML+915+1500E

ML-762+1500E

ML-762+1000E ML-762+1500E

2000

22

23

24

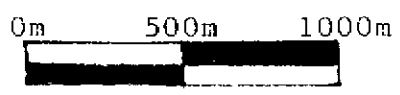
Onyx

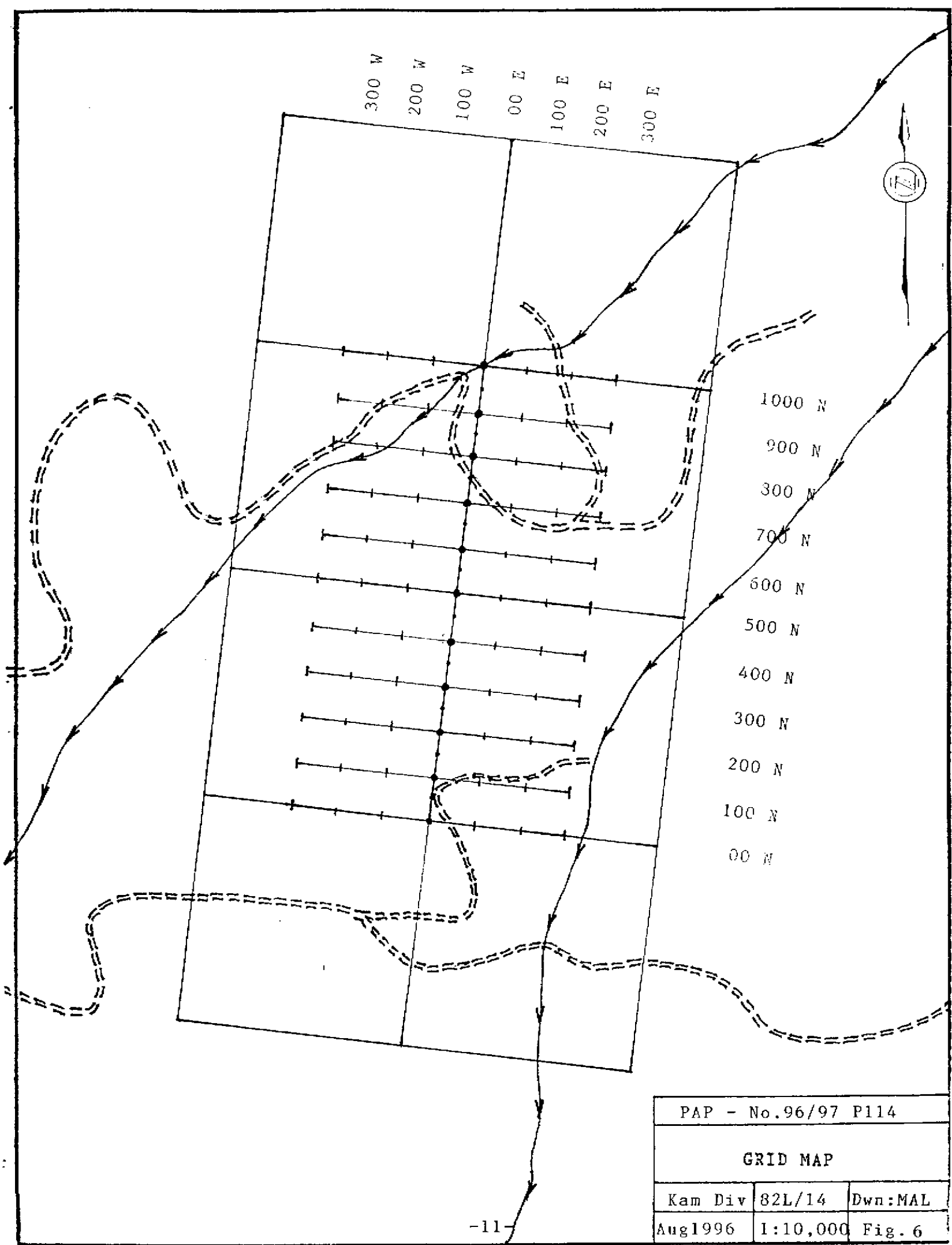
PAP - No.96/97 P114.

TOPOGRAPHICAL SAMPLE MAP

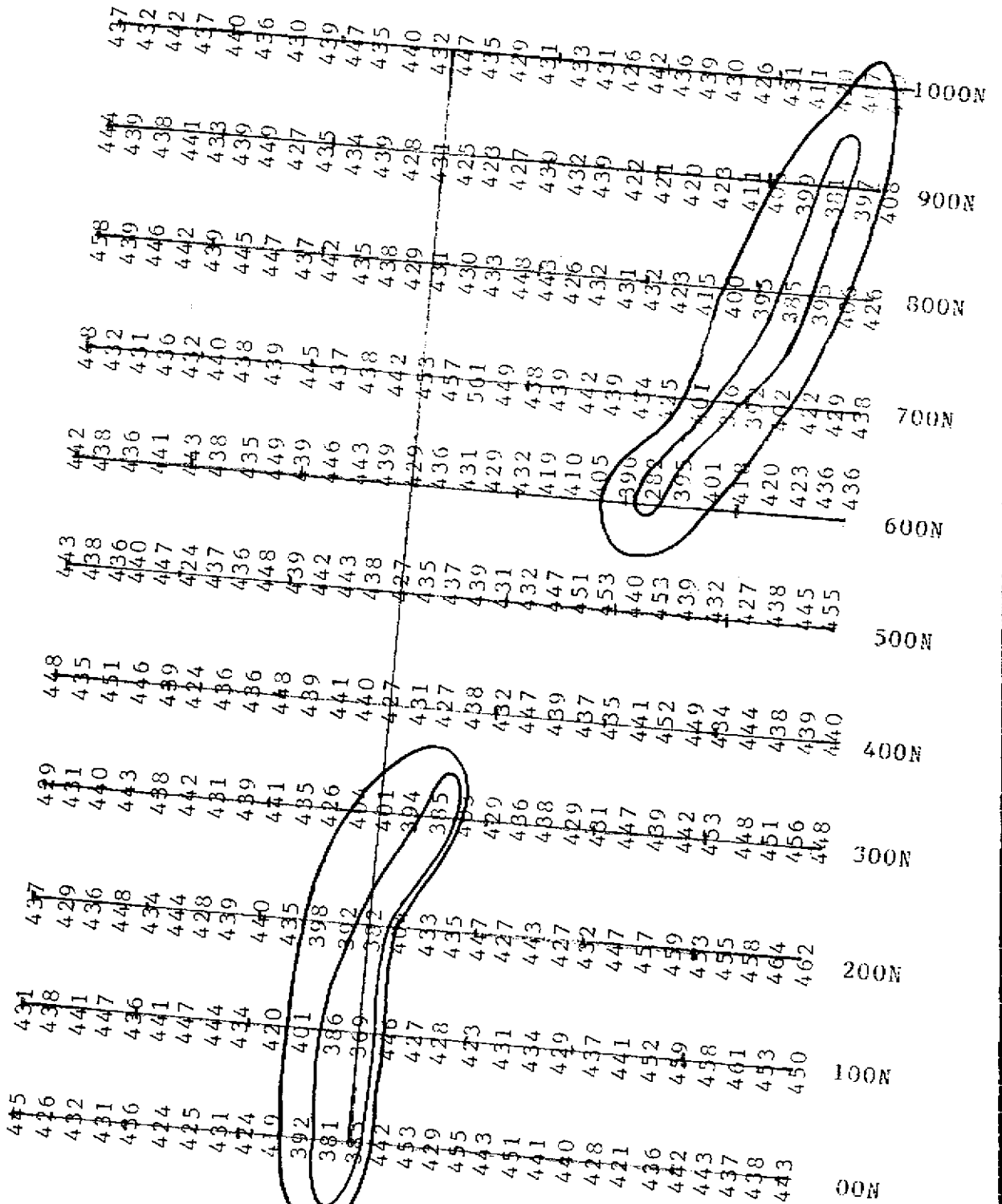
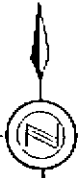
Kam Div 82L/14W Dwn:MAL

Dec1996 1:31,680 Fig.5





PAP - No.96/97 P114		
GRID MAP		
Kam Div	82L/14	Dwn: MAL
Aug1996	1:10,000	Fig. 6



300W

200W

100W

00E

100E

200E

0m 100m 200m



PAP - NO.96/97 P114		
MAGNETOMETER SURVEY		
Kam Div	82L/14W	Dwn:LDL
Dec 1996	1:5,555	Fig.7



300W

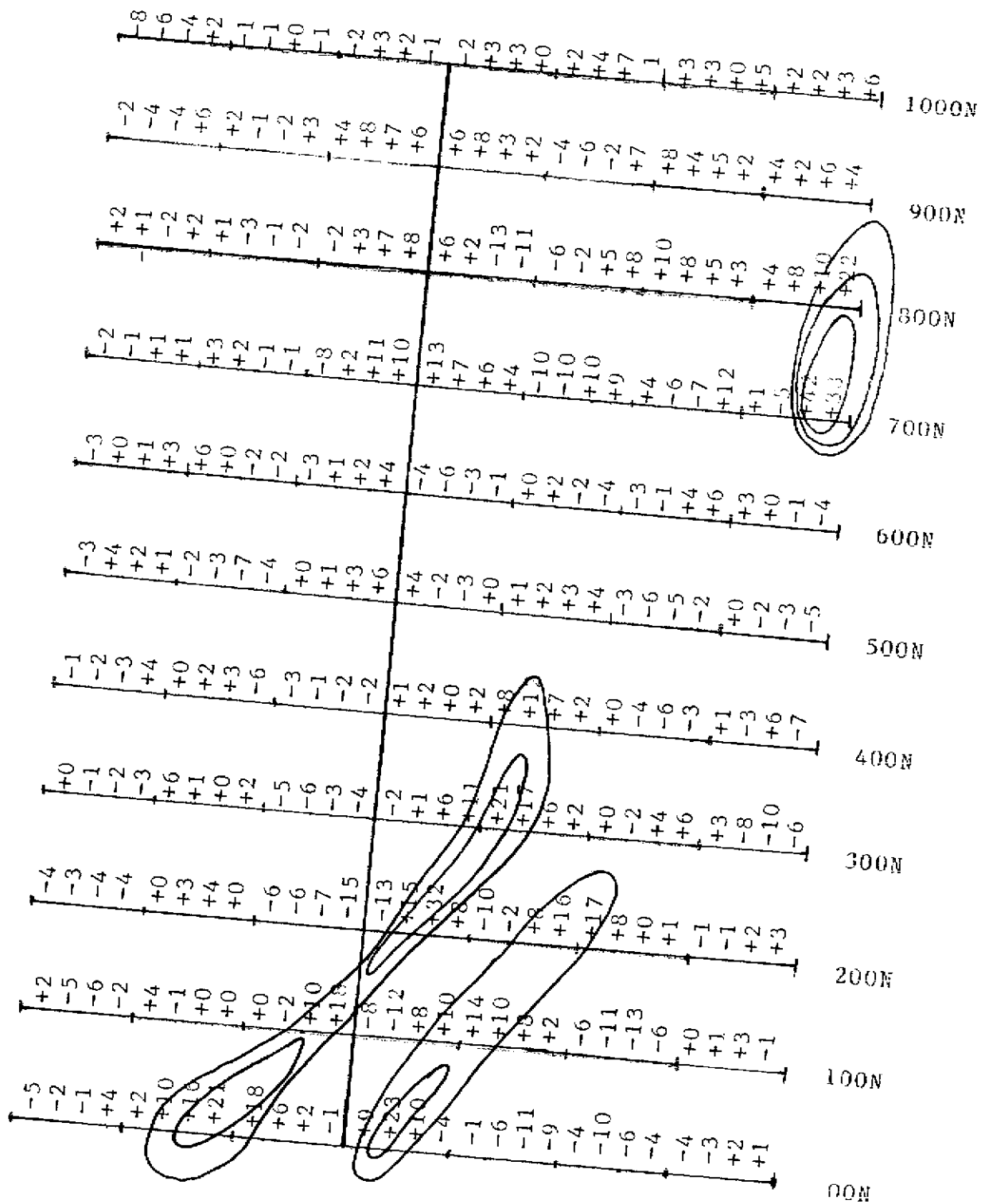
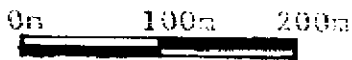
200W

100W

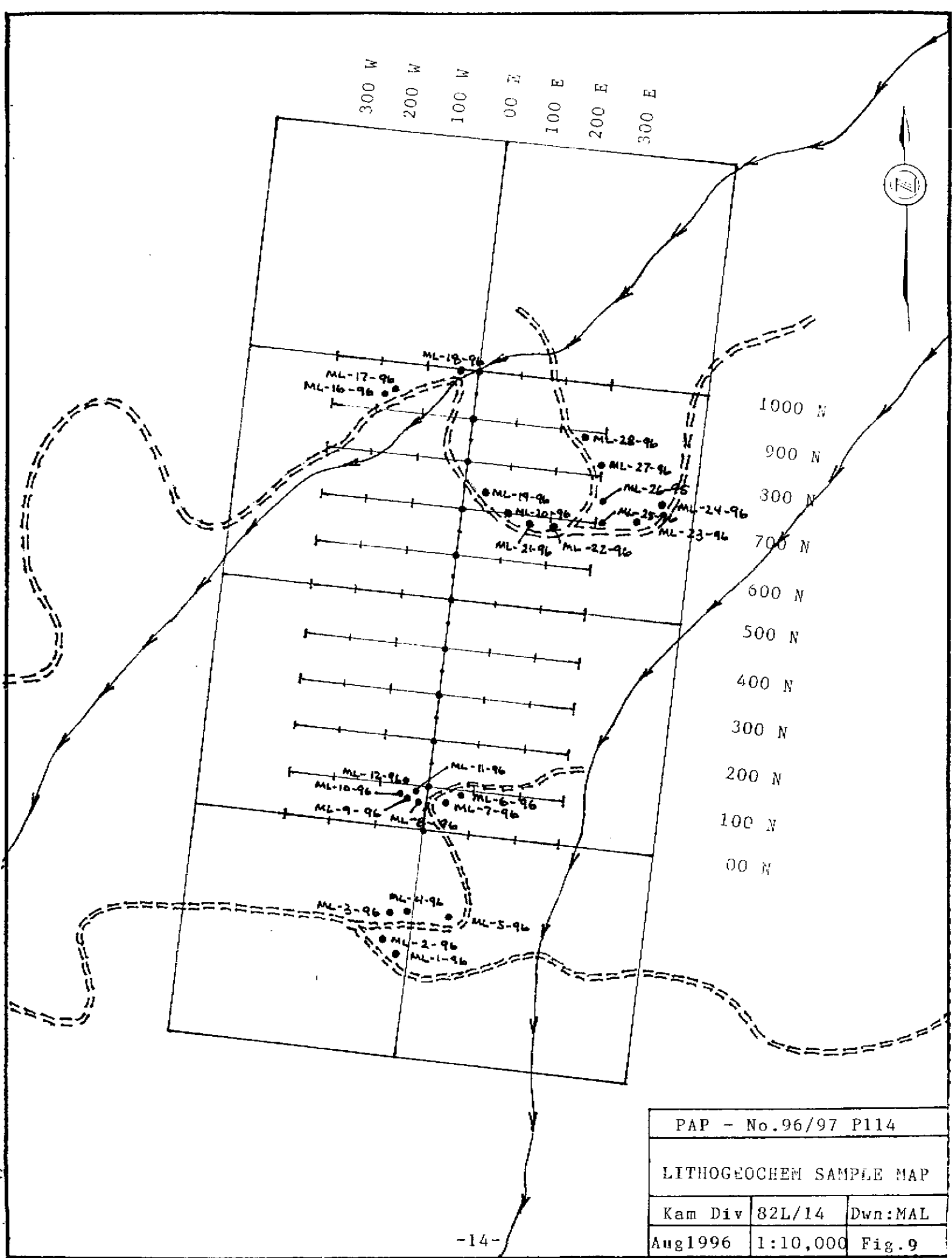
00E

100E

200E



PAP - NO.96/97 P114		
VLF/EM SURVEY MAP		
Kam Div	82L/14W	Dwn:LDL
Dec 1996	1:5,555	Fig.8



MARY A. LUTJEN
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604-679-8022

***** WORK EXPERIENCE IN THE MINING INDUSTRY *****

1983-1984... Field Technician on the Golden Eagle Project, Scotch Creek, B.C., for Barnes Creek Minerals Corporation, including construction of baseline, gridlines and geochemical survey; and, similar survey in Modoc County, Golden Quartz Project, Adin Pass, California.

1984-1985... Field Technician on the Golden Eagle Project, Scotch Creek, B.C., for Barnes Creek Minerals Corporation, including gridline construction, litho-geochemical sampling, and geophysical data collection. Completed the MEMPR Rock and Mineral Course and worked as Field Technician on the Otto Claims, Adams Plateau, B.C. for Barnes Creek Minerals Corporation.

1985-1986... Field Technician on the Golden Loon Project, Little Fort, B.C. including geophysical and geochemical surveys; and, assessment work survey on the Lost Cabin Mine and Golden Quartz Project, Adin Pass, California.

1986-1987... Field Technician on the Golden Loon Project, Little Fort, B.C., including soil sampling, grid construction, and geophysical data collection; and, assessment work on the Platinum Giant Project, Salmon Arms, B.C. including explorational grids and soil sampling.

1987-1988... Field Technician for Souix City Resources Ltd. on the King George Project, Kettle River, B.C. including gridlines and soil sampling; and, soil sampling and geophysical data collection on the Golden Loon Project, Little Fort, B.C.

1988-1989... Field Technician for Barnes Creek Minerals Corporation on Lost Cabin Project, Adin Pass, California; including sample collection and geophysical survey; and, grids, soil sampling, and geophysical survey on the Golden Fiddler Project, Harris Creek, B.C.

1989-1990... Field Technician for Barnes Creek Minerals Corporation on the Lost Cabin Project, Adin Pass, California; and, Golden Fiddler Project Harris Creek, B. C. including geochemical and geophysical surveys and grid reconstruction.

1990-1991... Field Technician and diamond drilling assistant on the Lost Cabin Project, Adin Pass, California; and, explorational survey on the Golden Eagle Project, Scotch Creek, B.C. for Barnes Creek Minerals Corporation.

1991-1992... Field Technician on the Dixie Queen Project in the Lost Cabin Gold Camp, Adin Pass, California; and, geochemical and geophysical surveys on the BJ 1-4 claims, Lightning Peak, B.C.

1992-1993... Field Technician on the Goldfinger 1-10 claims, Bennett Range, Yukon, including lithogeochemical sampling and explorational grids; and, baseline, gridlines, and soil sampling on the Hess Gold Mine Project, Stone Coal Canyon, California.

1993-1994... Field Technician on the Goldfinger Project, Bennett Range, Yukon, for Barnes Creek Minerals Corporation, including geochemical and geophysical surveys; and, assessment work surveys on the Lost Cabin Project, Adin Pass, California.

1994-1995... Field Technician on the Goldfinger Project for Barnes Creek Minerals Corporation on the Bennett Range, Yukon; and, assessment work on the Hess Gold Mine, Stone Coal Canyon, California, and the Lost Cabin Gold Mine, Adin Pass, California.

Mary A. Gutzan

I **LARRY D. LUTJEN** of Rural Route No. 1, Post Office Box 12; Chase, British Columbia; having graduated from the College of San Mateo (U.S.) in 1965 with a degree in Electronics, did my post graduate work at the University of California (Berkeley) in 1966, and received my teaching credentials from Merrit College in 1967. I taught Electronics for the United States Navy at the Naval Air Station in Alameda California from 1962 to 1969. The following is a synopsis of my work experience in the mining industry:

1958-1962 Surface and subsurface mining on the Hard Quartz claim, Adin Mountain, California including drilling, blasting, timbering, and highgrading.

1963-1969 Prospecting with John Harden on the Warner Range (Calif), Lovelock plateau (Nevada), and Shieffer Mountain (Calif) for gold, silver, mercury, tungsten, copper, lead, and zinc. We staked several claims in California and Nevada.

1972-1976 Geophysical prospecting in the Scotch Creek area using a Sharpe SE 600 horizontal and vertical loop on VLF and self potential surveys. We staked several claims including the Silver King and the Silver Queen.

1977-1980 Geophysical and geochemical surveys in the Shuswap Lake and Adams Plateau with a McPhar 800 vertical field magnetometer and B horizon sampling. Geophysically surveyed the Lost Cabin Mine on Shieffer Mountain California resulting in an option to Lorcan Resources Ltd.

1982-1983 Received my geophysical certification from the British Columbia Ministry of Mines and Malasapina College. Geophysical survey for Aurun Minerals Ltd. on Ground Hog Basin using a Geonics 816-G Proton Magnetometer and an EM-16 VLF/EM, including geochemical sampling of the B horizon, geophysical mapping, and grid layout. Geochemical sampling of the B horizon and geological surveying for Tylox Resources Ltd. on the Au-1 and Au-2 claims in the Monashee Pass area British Columbia.

1983-1984 Geophysical survey for MacKenzie Range Gold Inc. on the Golden Eagle Project using a Sabre Model 27 VLF/EM, Scintrex MF-2, and S.P. potential difference surveying. Geophysical and geochemical survey for MacKenzie Range Gold Inc. on the Golden Quartz Project Adin Pass California using a Scintrex Fluxgate Magnetometer MF-2, Sabre Model 27, and S.P. potential difference evaluations.

1984-1985 80km of geophysical and geochemical surveys for Barnes Creek Minerals Corporation on the Golden Eagle Project including mapping, profiles, contours and interpretation. Geophysical assessment report for Mr. M. Riley on the Otto claims on the Adams Plateau, British Columbia. 30km of geophysical and geochemical surveys for Noranda Exploration Ltd. on the Birk Creek Project. 10km of geochemical and geophysical surveys for Noranda Exploration Ltd. on the London Ridge Project. All projects sampled the B horizon and used a Scintrex MF-2, Sabre Mod. 27, and potential difference sampling.

1985-1986 Assessment report, geochemical, and geophysical surveys (30km) for Barnes Creek Minerals Corporation on the Golden Loon Project Little Fort, B.C. 30km of geophysical and geochemical

surveys for Lacana Mining Corporation on the Comstock Project (optioned to Lacana by L.Lutjen) Adams Plateau, B.C.. Assessment reports on the Golden Eagles I & II (40 units), Silver Weasel 1 & 2 (40 units), and Golden Loons 1-9 (176 units) for Barnes Creek Minerals Corporation. All projects sampled the B & C horizons and used a Scintrex MF-2, Geonics 816-G, Sabre Mod. 27, and S.P. potential difference surveying.

1986-1987 50km of geophysical and geochemical surveys for Mineta Resources Ltd. on the Golden Loon Project (optioned to Mineta) Little Fort, B.C.. 10km of geophysical surveys for Barnes Creek Minerals Corporation on the Platinum Giant Project, Salmon Arms British Columbia. 20km of geochemical and geophysical surveys for Westwego Resources Ltd. on the Lost Cabin Project (optioned to Westwego Resources Ltd.) Shieffer Mountain California. Assessment reports for Barnes Creek Minerals Corporation on the Golden Eagles I & II (40 units), Golden Popes (80 units), and Golden Skarns 1 & 2 (40 units). All projects sampled the B & C horizons and used a Scintrex MF-2, Geonics 816-G, Sabre Mod. 27, and S.P. potential difference surveying.

1987-1988 10km of geophysical and geochemical surveys for Souix City Resources Ltd. on the King George Claims, Kettle River British Columbia. 10km of geophysical surveys for Westwego Resources Ltd. on the Lost Cabin Project, Shieffer Mountain California. Assessment reports for Barnes Creek Minerals Corporation on the Golden Skarns (40 units), Lost Lightning Peak Mine (20 units), Golden Popes (40 units), Platinum Giant Project (40 units), and Golden Eagles (40 units). 40km of geochemical and geophysical surveys for Mineta Resources Ltd. on the Golden Loon Project (optioned to Mineta). All projects sampled the B & C horizons and used a Scintrex MF-2, Geonics 816-G, Sabre Mod. 27, and S.P. potential differences.

1988-1989 10km of geochemical and geophysical surveys for Westwego Resources Ltd. on the Lost Cabin Group (optioned to Westwego). 7.5km of geophysical surveys with Corona Corporation on the Platinum Giant Project. Assessment reports on the Golden Eagles I & II (40 units), Golden Pope 1 & 2 (40 units), Lost Lightning Peak Mine (20 units), and Golden Skarn 1 & 2 (40 units). 10km of geophysical and geochemical surveys for Souix City Resources on the King George Project (76 units). 200 meters of diamond drilling (A-core) for Barnes Creek Minerals Corporation on the Golden Fiddler Project, Harris Creek British Columbia. All projects sampled the B & C horizons and used a Scintrex BGS-1SL, Scintrex MF-2, Geonics 816-G, S.P. potential differences, Sabre Mod. 27, and Boyles BBS-1 diamond drill.

1989-1990 100 meters of diamond drilling for Barnes Creek Minerals Corporation on the Golden Fiddler Project (20 units). 10km of geophysical and geochemical surveys on the Golden Eagles 1 & 2 (40 units) for Barnes Creek Minerals Corporation. 10km of geochemical surveys on the Golden Skarns 1 & 2 (40 units) for Barnes Creek Minerals Corporation. Assessment reports on the Platinum Giants 1 & 2 (40 units), Golden Popes 1 & 2 (40 units), Golden Stake 1 & 2 (40 units), Golden Fiddler (20 units), and King George Mine (76 units). All projects sampled the B & C horizons and used a Scintrex BGS-1SL, sabre Mod. 27, S.P. potential differences, Geonics 816-G, and Scintrex MF-2.

1990-1991 350 meters of diamond drilling (A-core) for Westwego Resources Ltd. on the Lost Cabin Project. 100 meters of diamond drilling (A-core) for Barnes Creek Minerals Corporation on the Golden Eagle 1 & 2 (40 units). 10km of geophysical and geochemical surveys for Barnes Creek Minerals Corporation on the King George Mine Project (76 units). Assessment reports on the Golden Eagles 1 & 2 (40 units), Lost Lightning Peak Mine (20 units), Golden Skarns (40 units), Golden Popes 1 & 2 (40 units), and Platinum Giants 1 & 2 (40 units). 5km of geochemical surveys for Barnes Creek Minerals Corporation on the Dixie Queen Project (33 claims), Adin Pass California. All projects sampled the B & C horizons and used a Scintrex BCS-1SL, Sabre Mod. 27, Boyles BBS-1, Geonics 816-G, S.P. potential differences, and Scintrex MF-2.

1991-1992 Assessment work surveys for Barnes Creek Minerals on the Golden Popes 1&2, King George Mine, Platinum Giants, BJ 1-4, Lost Cabin Mine, Dixie Queens and Golden Quartzs. Assessment work surveys for Pharlap Resources Ltd. on the Why 1&2, GM 2 and GM 3, Sweep and Duffer. The surveys included geochemical sampling of the B and/or C horizons, VLF/EM surveys with a Sabre Mod.27, Mag surveys with a Geonics 816-G and a Scintrex MF-2 and SP potential differences.

1992-1993 Grassroots Prospecting on the Bennett Range Project (NTS 105D/2), staked the Goldfinger 1-10 on finger Mountain Bennett Range, assessment work surveys for Barnes Creek Minerals Corp. on their California Project Dixie Queen, Lost Cabin Mine, Golden Quartz and Hess Gold Mine. Assessment work survey on the Lone Coyote Project NTS 82M/3. Assessment work survey on the Frank Hall Mine. The geophysical surveys were done with a Geonics 816G proton magnetometer, Scintrex MF-2 flux-gate magnetometer, a Sabre Mod. 27 VLF/EM and SP potential differences.

1993-1994 Prospecting on the L-331 Group (104M/8&9), staked the Engineer North (104M/9), assessment work survey on the Goldfinger 1-10 (105D/2), assessment work surveys on Barnes Creek Minerals Corporation California Project the Lost Cabin Mine and the Daddy Hess Mine, Assessment work surveys on the Goldfields 1-10 (92I/15W), assessment work surveys on the King George Mine (82E/15E), and staking the Mariko 1 & 2 (82L/14W). The geophysical surveys were done with a geonics 816G proton magnetometer, Scintrex MF-2 flux-gate magnetometer, a Sabre model 27 VLF/EM and SP potential differences.

1994-1995 Grassroots Prospecting on the Judas Mountain Project (NTS 105D/08), assessment work survey on the Goldfields 1-10 (92I/15W), assessment work survey the King George Mine (82E/15E), assessment work survey on the Mariko 1 & 2 (82L/14W), assessment work survey on the Goldfinger 1-10 (105D/02) and staked the L & L claims (92I/10) and Win claims (92I/10). The geophysical surveys were done with a Geonics 816G proton magnetometer, Scintrex MF-2 flux-gate magnetometer, a Sabre model 27 VLF/EM and SP potential differences.



MALASPINA COLLEGE

Statement of Course Completion

LARRY D. LUTJEN

has

Successfully Completed 180 Hours of Instruction
in

MINERAL EXPLORATION FOR PROSPECTORS

PRESENTED BY B.C. MINISTRY OF ENERGY, MINES AND PETROLEUM RESOURCES
B.C. MINISTRY OF EDUCATION

APRIL 16 to 30, 1983 - MESACHIE LAKE, B.C.

MAY 2, 1983

Dated at Nanaimo,
British Columbia, Canada



Malaspina
College

A handwritten signature in cursive, likely belonging to the Director or Dean.

Director / Dean

A handwritten signature in cursive, likely belonging to the Registrar.

Registrar

A handwritten signature in cursive, likely belonging to the instructor.

Instructor

BIBLIOGRAPHY

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BCGS MINERAL EXPLORATION REVIEW 1995

BCGS OPEN FILE 1990-30, Bradford J. Johnson

SAMPLE PREPARATION

A. RECEIVING AND SORTING

1. Each lot shipment of samples received will be assigned a unique job number by the Chief Assayer. This number together with the following information is to be entered in pen (not pencil) into the sample log book:
 - Job number
 - Client name and address
 - Date and time received
 - Names of individuals to receive results
 - Name of person receiving samples
 - Analyses required
 - Type of sample (ie. Core, Soil, Chip - Assay or Geochem)
2. Organize sample bags on a sorting table, so that sample tags or bag markings are in a logical alphanumerical sequence as indicated on sample shipment form submitted by client.
3. Enter the sample description into the log book and assign a lab number to each sample. Each lab number that has been assigned must also be marked on the sample bag using a felt pen.
4. Using the numbering stamp, mark the sample pulp bags with the lab number preceded by the assigned number.

4-Dec-96

ECO-TECH LABORATORIES LTD.
10041 East Trans Canada Highway
KAMLOOPS, B.C.
V2C 6T4

ICP CERTIFICATE OF ANALYSIS AK 96-1353

MARY LUTJEN
RR#1, BOX 12, SITE 11
CHASE, BC
VOE 1M0

Phone: 604-573-5700
Fax : 604-573-4557

ATTENTION: MARY LUTJEN

No. of samples received: 25
Sample type: SOIL
PROJECT #: M1 - 8
SHIPMENT #: NONE GIVEN

Values in ppm unless otherwise reported

Et #.	Tag #	Ag	Al %	As	Ba	Bi	Ca %	Cd	Co	Cr	Cu	Fe %	La	Mg %	Mn	Mo	Na %	Ni	P	Pb	Sb	Sn	Sr	Ti %	U	V	W	Y	Zn
1	M 1-8 700N+00E	1.2	3.12	5	280	5	0.53	<1	14	39	35	4.19	<10	0.48	519	2	0.02	59	980	26	<5	<20	26	0.09	<10	46	<10	10	87
2	M 1-8 700N+25E	0.2	2.51	5	315	<5	0.49	1	18	53	38	4.88	<10	0.75	802	3	0.01	73	490	26	<5	<20	26	0.08	<10	52	<10	4	114
3	M 1-8 700N+50E	0.4	1.59	<5	135	<5	0.24	<1	14	33	12	3.68	<10	0.40	529	<1	0.01	30	1010	20	<5	<20	14	0.09	<10	53	<10	<1	72
4	M 1-8 700N+70E	0.4	3.11	<5	270	<5	0.40	<1	16	37	29	4.24	<10	0.47	735	2	0.02	56	640	26	<5	<20	25	0.09	<10	43	<10	10	107
5	M 1-8 700N+100E	0.4	2.87	10	275	<5	0.28	<1	18	41	30	4.50	<10	0.56	650	2	0.01	61	650	28	<5	<20	21	0.07	<10	46	<10	6	109
6	M 1-8 700N+125E	1.8	1.37	5	315	<5	1.25	1	14	35	36	3.23	<10	0.47	1848	3	<0.01	46	900	42	<5	<20	52	0.03	<10	32	<10	8	89
7	M 1-8 700N+150E	0.2	1.75	10	190	<5	0.30	<1	21	48	50	4.97	<10	0.74	627	4	<0.01	64	650	22	<5	<20	17	0.04	<10	47	<10	7	98
8	M 1-8 700N+175E	0.2	2.12	10	215	<5	0.39	<1	27	62	74	6.21	<10	0.93	824	5	<0.01	84	880	26	<5	<20	21	0.06	<10	63	<10	10	120
9	M 1-8 700N+200E	0.2	2.20	<5	215	<5	0.38	<1	25	59	77	5.77	<10	0.89	757	3	<0.01	82	860	26	<5	<20	22	0.06	<10	60	<10	8	121
10	M 1-8 800N+00E	0.2	3.39	5	120	5	0.25	<1	7	10	6	2.21	<10	0.09	254	<1	0.02	12	1770	20	<5	<20	13	0.13	<10	28	<10	3	51
11	M 1-8 800N+25E	<0.2	1.64	<5	145	10	0.14	<1	9	15	5	2.65	<10	0.13	352	<1	0.01	15	2130	16	<5	<20	7	0.09	<10	37	<10	<1	73
12	M 1-8 800N+50E	<0.2	1.79	<5	205	<5	0.41	<1	15	29	25	3.86	<10	0.39	507	3	0.01	43	720	38	<5	<20	20	0.06	<10	43	<10	<1	91
13	M 1-8 800N+70E	0.4	2.37	<5	235	<5	0.36	<1	15	30	21	3.98	<10	0.36	521	2	0.01	50	590	20	<5	<20	17	0.07	<10	42	<10	1	114
14	M 1-8 800N+100E	0.4	2.15	15	245	<5	0.50	<1	14	28	25	3.82	<10	0.34	845	2	0.01	47	550	22	<5	<20	20	0.07	<10	41	<10	3	113
15	M 1-8 800N+125E	<0.2	2.85	5	315	10	0.24	<1	15	36	25	4.06	<10	0.43	487	2	0.01	57	800	24	<5	<20	8	0.07	<10	46	<10	3	112
16	M 1-8 800N+150E	0.2	3.40	<5	250	5	0.20	<1	19	43	28	4.66	<10	0.51	451	2	0.01	66	700	28	<5	<20	15	0.07	<10	47	<10	3	126
17	M 1-8 800N+175E	0.6	2.42	10	245	<5	0.23	<1	14	31	23	3.79	<10	0.37	389	1	0.01	46	980	22	<5	<20	16	0.06	<10	46	<10	2	117
18	M 1-8 800N+200E	0.6	2.61	<5	165	10	0.13	<1	12	25	20	3.28	<10	0.27	337	<1	0.01	38	1430	20	<5	<20	11	0.08	<10	41	<10	2	95
19	M 1-8 900N+00E	<0.2	1.68	<5	155	<5	0.23	1	26	70	44	5.76	<10	1.08	780	5	<0.01	63	890	22	<5	<20	18	0.05	<10	73	<10	<1	119
20	M 1-8 900N+25E	<0.2	1.15	<5	190	<5	0.24	<1	12	23	13	3.34	<10	0.23	521	2	<0.01	22	2290	16	<5	<20	19	0.06	<10	35	<10	<1	89

MARY LUTJEN

ICP CERTIFICATE OF ANALYSIS AK 96-1353

ECO-TECH LABORATORIES LTD.

Et #.	Tag #	Ag	Al %	As	Ba	Bi	Ca %	Cd	Co	Cr	Cu	Fe %	La	Mg %	Mn	Mo	Na %	Ni	P	Pb	Sb	Sn	Sr	Ti %	U	V	W	Y	Zn
21	M 1-8 900N+50E	0.6	2.25	<5	315	<5	1.11	1	24	59	71	5.86	<10	0.83	2241	5	<0.01	83	620	26	<5	<20	57	0.04	<10	56	<10	7	108
22	M 1-8 900N+75E	<0.2	1.44	<5	120	<5	0.10	<1	20	50	45	5.15	<10	0.71	432	4	<0.01	53	710	20	<5	<20	7	0.03	<10	56	<10	<1	106
23	M 1-8 900N+100E	0.2	1.71	<5	200	<5	0.45	1	29	50	51	5.37	<10	0.80	1470	4	<0.01	69	1130	26	<5	<20	26	0.04	<10	57	<10	2	127
24	M 1-8 900N+125E	0.2	2.47	<5	170	<5	0.20	<1	16	30	20	3.77	<10	0.35	391	<1	0.01	45	890	32	<5	<20	18	0.08	<10	43	<10	<1	105
25	M 1-8 900N+150E	<0.2	2.20	<5	235	<5	0.22	<1	23	46	32	5.17	<10	0.66	493	4	<0.01	61	1010	24	<5	<20	13	0.05	<10	54	<10	<1	144

QC DATA:


Repeat:

1	M 1-8 700N+00E	1.2	3.05	5	275	<5	0.52	<1	15	39	34	4.19	<10	0.46	519	<1	0.02	58	980	30	<5	<20	26	0.09	<10	45	<10	10	88
10	M 1-8 800N+00E	0.2	3.32	10	115	5	0.24	<1	7	9	5	2.17	<10	0.09	255	<1	0.02	12	1710	18	<5	<20	13	0.13	<10	28	<10	3	49
19	M 1-8 900N+00E	<0.2	1.65	<5	150	<5	0.23	<1	26	69	43	5.70	<10	1.06	780	4	<0.01	62	890	22	<5	<20	15	0.05	<10	72	<10	<1	117

Standard:

GEO'96		1.0	1.86	60	150	<5	1.74	<1	18	59	80	4.11	<10	1.06	666	<1	0.02	24	620	20	<5	<20	58	0.12	<10	76	<10	6	67
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df/1353
XLS/96


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 Frank J. Pezzotti, A.Sc.T.
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4-Dec-96

ECO-TECH LABORATORIES LTD.
10041 East Trans Canada Highway
KAMLOOPS, B.C.
V2C 6T4

ICP CERTIFICATE OF ANALYSIS AK 96-1355

MARY LUTJEN
RR#1, BOX 12, SITE 11
CHASE, BC
V0E 1M0

Phone: 604-573-5700
Fax : 604-573-4557

ATTENTION: MARY LUTJEN

No. of samples received:25
Sample type: ROCK
PROJECT #: M 1-8
SHIPMENT #:NONE GIVEN

Values in ppm unless otherwise reported

Et #.	Tag #	Au(ppb)	Ag	Al %	As	Ba	Bi	Ca %	Cd	Co	Cr	Cu	Fe %	La	Mg %	Mn	Mo	Na %	Ni	P	Pb	Sb	Sn	Sr	Ti %	U	V	W	Y	Zn
1	ML - 1 - 96	5	<0.2	0.10	15	30	<5	>10	<1	3	12	<1	1.33	<10	>10	583	<1	<0.01	4	470	<2	50	<20	405	<0.01	<10	12	<10	3	15
2	ML - 2 - 96	5	0.2	0.65	150	125	<5	>10	4	25	73	10	5.71	<10	8.84	538	8	<0.01	204	400	4	30	<20	757	<0.01	<10	93	<10	<1	202
3	ML - 3 - 96	5	0.4	0.87	30	120	<5	>10	2	72	26	281	8.61	<10	4.76	372	7	<0.01	73	3750	4	10	<20	286	<0.01	<10	30	<10	22	167
4	ML - 6 - 96	5	<0.2	2.89	10	55	<5	1.87	1	41	118	4	8.30	10	3.03	2766	9	<0.01	59	840	24	<5	<20	53	0.01	<10	124	<10	<1	132
5	ML - 7 - 96	5	<0.2	1.06	<5	140	<5	>10	2	57	32	106	9.57	<10	6.21	726	6	<0.01	75	3250	4	10	<20	222	<0.01	<10	30	<10	8	160
6	ML - 8 - 96	5	<0.2	0.60	150	130	<5	>10	5	31	70	159	5.75	<10	8.68	568	7	<0.01	203	1680	4	25	<20	751	<0.01	<10	88	<10	<1	266
7	ML - 9 - 96	5	<0.2	0.78	75	125	<5	>10	5	27	38	7	5.65	<10	8.23	595	4	<0.01	191	200	12	30	<20	593	<0.01	<10	110	<10	<1	256
8	ML - 10 - 96	10	<0.2	0.36	85	35	<5	>10	3	22	140	13	4.03	<10	6.66	746	11	<0.01	113	710	6	25	<20	423	<0.01	<10	32	<10	<1	124
9	ML - 12 - 96	5	1.0	0.08	<5	15	<5	0.43	8	3	467	2926	0.82	<10	0.19	71	20	<0.01	12	<10	36	20	<20	10	<0.01	<10	8	<10	<1	1193
10	ML - 14 - 96	5	<0.2	0.05	<5	10	<5	0.17	<1	2	671	1428	0.84	<10	0.07	79	28	<0.01	15	<10	2	<5	<20	3	<0.01	<10	4	<10	<1	148
11	ML - 15 - 96	5	0.4	0.74	60	120	<5	>10	2	97	43	249	>10	<10	7.14	556	9	<0.01	183	2560	6	10	<20	510	<0.01	<10	25	<10	12	101
12	ML - 16 - 96	5	<0.2	1.58	<5	195	<5	0.23	<1	11	161	9	4.25	<10	1.15	418	8	<0.01	65	950	18	<5	<20	20	<0.01	<10	40	<10	<1	162
13	ML - 17 - 96	5	0.4	1.43	<5	210	<5	0.24	1	15	139	42	3.44	<10	0.97	327	8	0.01	75	570	18	<5	<20	16	<0.01	<10	44	<10	<1	121
14	ML - 18 - 96	10	<0.2	1.99	<5	175	<5	0.29	<1	16	210	15	4.36	10	1.22	190	10	0.01	59	930	20	<5	<20	21	<0.01	<10	40	<10	<1	97
15	ML - 19 - 96	5	0.4	1.46	<5	175	<5	0.47	1	10	123	27	2.96	20	1.14	238	7	<0.01	44	1930	26	5	<20	22	<0.01	<10	42	<10	9	111
16	ML - 20 - 96	5	1.4	1.31	<5	160	<5	0.22	1	13	92	41	3.32	20	1.07	186	8	<0.01	78	1030	36	<5	<20	10	<0.01	<10	49	<10	5	137
17	ML - 21 - 96	140	2.4	1.37	5	120	<5	0.34	<1	8	178	50	3.15	<10	0.60	46	32	<0.01	83	1740	32	<5	<20	10	0.01	<10	118	<10	6	157
18	ML - 22 - 96	5	1.0	0.63	45	200	<5	0.20	<1	2	90	14	1.76	<10	0.25	29	41	<0.01	54	1380	18	<5	<20	8	<0.01	<10	64	<10	4	108
19	ML - 23 - 96	5	1.8	0.93	<5	120	<5	0.09	<1	9	283	9	3.14	<10	0.41	110	17	<0.01	45	360	24	<5	<20	4	<0.01	<10	45	<10	<1	119
20	ML - 24 - 96	20	1.8	0.62	<5	170	<5	0.07	<1	6	199	20	2.19	<10	0.31	80	10	<0.01	44	360	24	<5	<20	2	<0.01	<10	30	<10	<1	134

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Et #.	Tag #	Au(ppb)	Ag	Al %	As	Ba	Bi	Ca %	Cd	Co	Cr	Cu	Fe %	La	Mg %	Mn	Mo	Na %	Ni	P	Pb	Sb	Sn	Sr	Ti %	U	V	W	Y	Zn
21	ML - 25 - 96	5	1.2	0.83	<5	185	<5	0.07	<1	9	206	36	2.29	<10	0.54	111	13	<0.01	64	340	18	<5	<20	3	<0.01	<10	35	<10	<1	118
22	ML - 26 - 96	5	<0.2	0.98	<5	45	<5	>10	<1	11	80	29	2.58	<10	4.50	927	3	<0.01	30	640	6	30	<20	189	<0.01	<10	27	<10	11	34
23	ML - 27 - 96	10	2.6	0.44	<5	130	<5	0.06	<1	3	170	6	1.75	<10	0.07	29	12	<0.01	26	280	14	<5	<20	2	<0.01	<10	26	<10	<1	81
24	ML - 28 - 96	5	0.8	0.09	140	35	<5	3.05	1	26	253	12	8.08	<10	1.26	436	18	0.04	62	330	6	<5	<20	425	<0.01	<10	9	<10	<1	23
25	ML - 29 - 96	10	1.6	0.77	<5	115	<5	0.09	<1	10	148	44	2.58	<10	0.55	112	9	<0.01	73	370	18	<5	<20	4	<0.01	<10	30	<10	<1	144

QC DATA:


Repeat:

1	ML - 1 - 96	5	<0.2	0.09	5	30	<5	>10	<1	3	14	12	1.34	<10	>10	591	<1	<0.01	4	480	<2	55	<20	403	<0.01	<10	11	<10	2	17
10	ML - 14 - 96	5	<0.2	0.05	<5	10	<5	0.16	<1	3	680	1389	0.86	<10	0.07	75	28	<0.01	15	<10	4	5	<20	4	<0.01	<10	4	<10	<1	159
19	ML - 23 - 96	5	1.8	0.93	<5	130	<5	0.09	<1	9	283	7	3.15	<10	0.41	111	17	<0.01	44	360	26	<5	<20	4	<0.01	<10	45	<10	<1	130

Standard:

GEO'96		150	1.0	1.72	60	165	<5	1.79	1	20	61	76	4.17	<10	1.04	707	<1	0.01	24	680	22	10	<20	50	0.10	<10	73	<10	12	75
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df/1355
XLS/96


ECO-TECH LABORATORIES LTD.
 Frank J. Pezzotti, A.Sc.T.
 B.C. Certified Assayer