GEOCHEMISTRY AND GEOPHYSICAL

REPORT

ALPINE 1-38 CLAIMS

GRANT # YCO1902-YCO1938

MAYO MINING DISTRICT

NTS#115P/15

LAT: 63' 48 N

LONG: 136' 57 W

AUTHOR OF REPORT : SHAWN RYAN
WORK PERFORMED SEPTEMBER 2001

DATE OF REPORT JANUARY 2002

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SUMMARY

The Alpine1-38 grant # YC01902-YC01938 and Callum 1-8 claims grant # YC01939-YC01942 and YCO -YC019 , registered to Shawn Ryan will be renewed for five years. A grid was laid out over 43.8 kilometers. A Magnetic and VLF Survey was run over the entire grid. A few soil sample where taken over anomalous magnetic areas #1, #3 and #4. The geophysical survey revealed five distant magnetic areas and the soil sample help to interpret the magnetic anomalies.

INTRODUCTION

The Alpine claims where staked to cover a gold potential during the summer of 1998. Since then I have found what appear to be a base metal potential. My work this years was directed at giving a bigger picture of the whole area which would hopefully help in defining target areas. I feel the magnetic survey did give us a good picture. The VLF survey was not as conclusive but did correlate with various magnetic anomalies across the grid.

LOCATION

The Alpine claims block is located on the border of the Dawson, Mayo Mining district. It is 35 miles north west of Mayo at the headwaters of the Forty Mile creek.

ACCESS

Access is via helicopter from Mayo or Dawson. This early fall a helicopter came in from Mayo and met us at the Dredge on Clear Creek. We took two trips to get in, one sling load and one passenger load. We also left the same way.

PROPERTY GEOLOGY

The property geology according to the Sprague Creek geological map by Don Murphy shows the Alpine claims are located in the Tombstone strain zone of the Hyland Group. This group is located in the upper Proterozoic lower Cambrian rock unit. The Cominco assessment report # 091008 also points out to numerous intrusion of sills and dikes of two different age Some of the Mcquesten suite and some of the Tombstone suite. I have also found a old massive showing running 20% zinc with some Pb and copper. This showing is located on the creek edge at line L 9+750 N, station 5050 E. I also found what looked to be the same type of rock of massive zinc in quartz along the creek edge at around line L 10+900 N. I suspected it came from the high grade southern creek showing magnetic anomaly Area # 3.

WORK PERFORMED / METHODS

GRID WORK

I started by re-establishing Cominco old grid. Once located we re cut a the base line and extend it to the south for one kilometer. The total base line cut was 2.7 kilometers. The next part of the project was to re-establish Cominco old grid lines. We chain the base line and found Cominco old lines. Lines where established every 100 meters and we flagged the lines every 25 meters with orange flagging tape and wrote line and station number with permanent black maker. I wanted to follow Cominco old grid because the plan was to compare there I.P.data to the Magnetic and VLF survey. I ran the grid from line 9000 N to 11700 N and station 3750 E to 5400 E. There was a total of 2.7 kilometers of base line cut on BL 5000 E, plus 4.6 kilometers of flagged tie line. There was a total of 40.6 kilometers of flagged grid line put in.

GEOPHYSICAL SURVEYS

MAGNETIC SURVEY

I ran a magnetometer survey using two Scintrex Proton magnetometers. One was used as a base station which was located in the same spot close to camp. The base station ran taking reading every 30 seconds. The daily survey is corrected every night for a regional daily magnetic drift. I dump all the data on a laptop computer every night and the data was transfer to floppy disk for backup. I ran a magnetic contour program on the computer every night to see if any magnetic anomalies showed up. All magnetic anomalies where noted and where to be followed up with soil sampling program once the line cutting and flagged grid was complete.

The magnetic survey took a reading every 25 meters at the flagged station. There was 1732 magnetic reading taken across the whole grid.

VLF SURVEY

The VLF survey was run using a Scintrex VLF system. The survey was going good for three days until a hard rain storm soak the instrument. I had problem with the instrument at that point on. The rain damage my quadrature and led to a slower survey. The survey used Seattle Washington (25.2KhZ) as a transmission station. I took 1732 VLF reading across the entire grid area.

SOIL SAMPLING PROGRAM

I ran a soil sampling program on four general areas across various parts of the grid starting from the north end of the grid and moved my way to the south part of the grid. I called the Anomalies A to D. All soil sample where from a depth of 12-18 inch. Sample where placed in kraft bags and air dried in camp.

Anomaly A is located at the northern end of the grid on line 11-600 N in between station 4450 E to 4700 E and the next line over line 11-500 N in between station 4450 E to 4900 E. The next Anomaly B is located on line 10-700 N in between station 4100 E to 4300 E. Anomaly C is located on line 10-300 N in between station 4650 E to 4800 E and on line 10-200 N in between station 4250 E to 4475 E. Anomaly D covered eight lines starting at line 9-700 N to line 9-000 N in between station 4700 E to 5100 E.

INTERPRETATION

MAGNETIC SURVEY

The magnetic survey worked great in breaking up the region into at least three to potentially four different geologic units.

Area number one located in the northern part of the grid. It covers the entire grid area between lines 10+400 N and L 11+600 N. Base on noting various rock type found during the survey I noted a number of granite units found in the magnetic anomaly area. I could only assumed that the whole anomaly (magnetic high) is underlain by a granite unit.

Magnetic area number two would be the magnetic low area located just south of the granite area. This magnetic low is underlain by a silver-gray, brown and black sericite-chlorite schist and quartzite's. There also a quartz breccia found in a old trench along the Forty Mile creek at 10+360 N.

The third rock unit is a mag high area found running in a north-east directions mainly in-between lines L 10+100 N and L 10+200 N. This magnetic high anomaly expands to take in the Massive Sulfide Showing found in Forty Mile Creek.

The forth area is the second magnetic low area found in the south-west corner of the grid. I feel this area is related to a mineralized pelitic metasediments and magnetic low intrusions. The area has a large soil anomaly in As, Sn, Zn, Cu, and Pb.

The final area is located in the south-east corner. Its a magnetic high area. I noted granite on the ridge top. I feel the magnetic anomaly is again related to a granite system.

VLF SURVEY

The VLF survey has been plotted and overlain on the magnetic survey data (figure 1). I plotted 18 crossover areas across the whole grid area. All the VLF crossovers appear at magnetic contact areas. These crossover are most likely do to the change in geologic units. The crossovers located on the magnetic high anomalies could be related to sulphides. I was hopping to see a good crossover around the massive sulfide showing area but the showing is relatively flat lying so good VLF station coupling was a problem.

SOIL SAMPLING

The soil sampling was conducted on various geophysical anomalies the result where mixed and did show two different type of anomalies in there geochem signature.

Anomaly A located in the northern part of the grid on lines 11+600 N station 4450 E to 4700 E and line 11+500 N, station 4450 E to 4900 E. This area was covered with soil sampling because it showed up as a magnetic anomalous area and Cominco had found a I.P. anomaly going in a east-west direction. The results from the soil sample showed a minor gold anomaly of maximum value of 33 ppb Au. The ICP values showed no other anomalies except one tungsten value of 5 ppm W.

Anomaly B located on line 10-700 N in between station 4100 E to 4300 E. This anomaly showed a slight arsenic anomaly. The results on this line with other element such as zinc show a gradual rise compared to Anomaly A but much lower than Anomaly C.

Anomaly C located on lines 10-200 N and 10-300 N shows a increase in arsenic, zinc, copper and zinc.

Anomaly D located on lines 9-700 N to 9-000 N. This part of the grid showed very elevated value in arsenic, zinc, copper and arsenic. The anomalous values gets higher as one move to the extreme south end of the grid.

I feel the geochem anomalies found prove that there two different type of geochem signature. The first Anomaly A has a potential to be related to Tombstone type intrusion. I base that assumption on the lack of base metal anomalies and the direction it traveling. The next anomaly pattern of base metal could potential be related to the periluninous intrusion type system of the Mcquesten suite. Cominco has map this unit at the ridge top and related the high arsenic value to the tin mineralization system.

RECOMMENDATION

The next phase of exploration for the property would be to track down where the massive sulfide boulder came from found at the end of 2001 field season. It was found around L 10+500 N along the creek which is 4975 E. I fell this massive sulfide float has potentially come from the Magnetic Anomaly Area # 3. I would recommend follow up with prospecting the creek area around L10-200N to the Creek Massive Sulfide Showing at L 9+500N.

All VLF Crossovers, especially the Crossovers with Magnetic High anomalies associated with it should be soil sample and prospected.

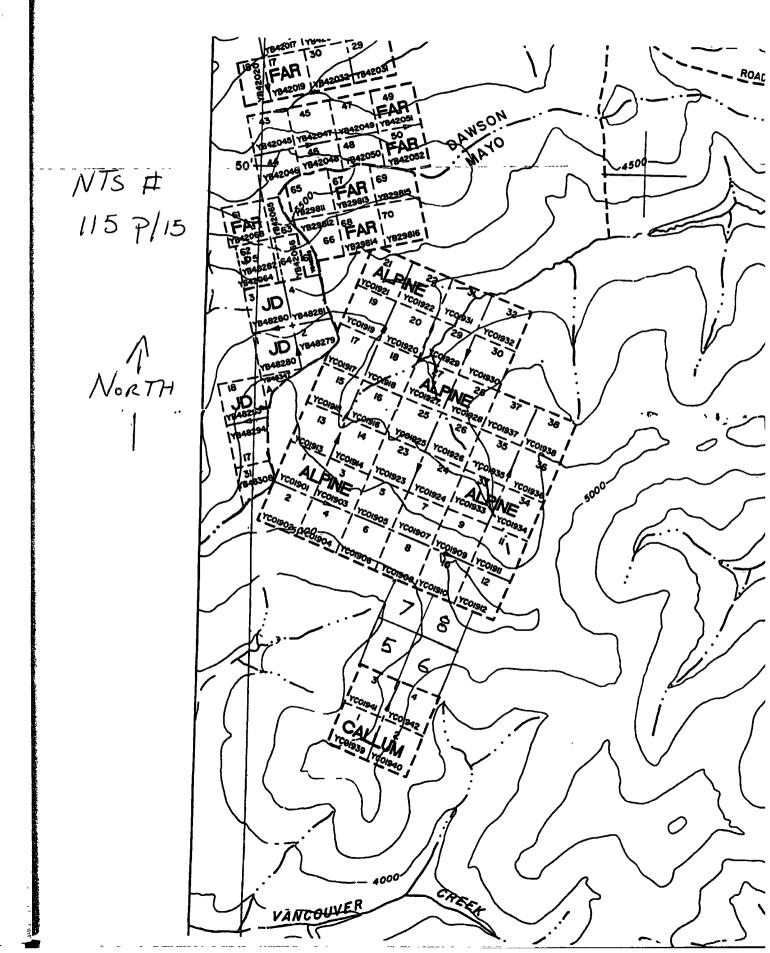
I feel the geophysical work has given us a good overall picture of the various rock units. This I feel was the biggest question to resolved, because of the various geochem signatures found in a small area. We can now focus on different deposit modeling in different geological units. The Magnetic Anomaly Area #1 should be given the highest priority for gold potential and Area #3 has a base metal potential and Area #4 has the tin, arsenic, and zinc mineralization potential.

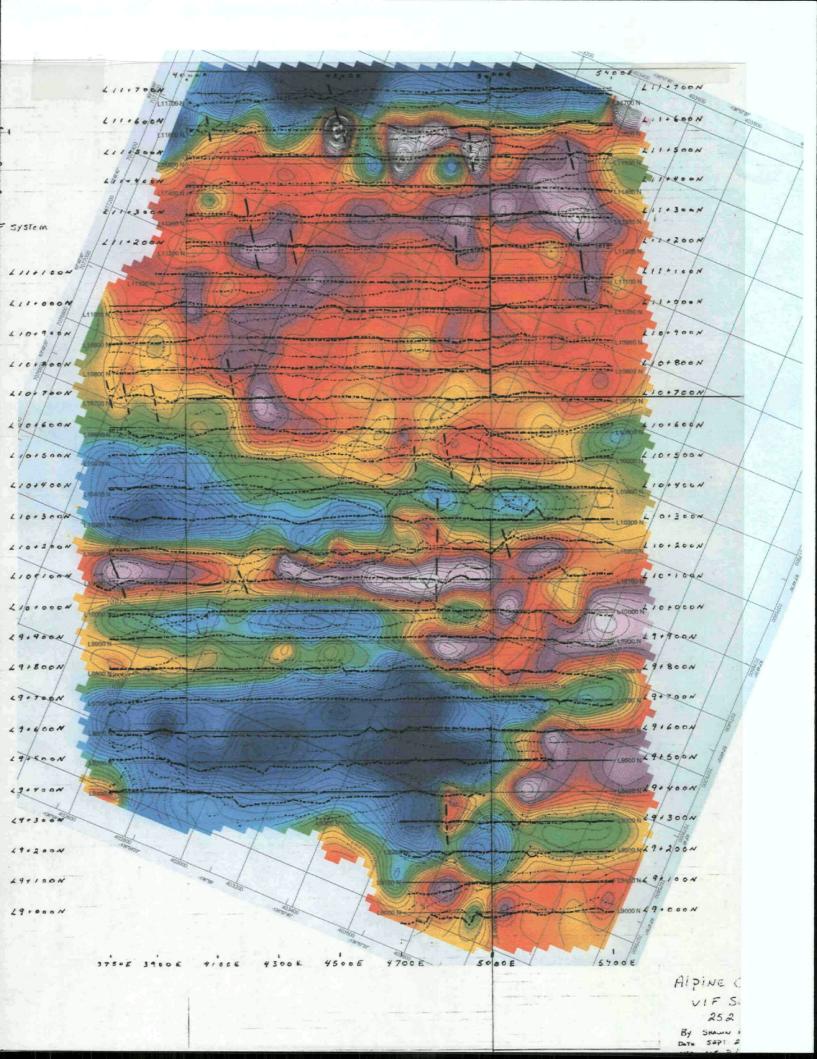
PROJECT COST

GRID WORK

2.7 kilometers of line cutting at \$450.00 KL 4.6 kilometers of flagged tie lines \$300.00 KL 40.6 kilometers of flagged lines at \$300.00 KL		\$1,215.00 \$1,380.00 \$12,180.00
GEOPHYSICAL SURVE	Y	
43.3 kilometers of Magnetic survey at \$250.00 KL 43.3 kilometers of VLF survey at \$250.00 KL		\$10,825.00 \$10,825.00
SOIL SAMPLING		
3 man days of soil sampling \$225.00 per day 1 day of prospecting at \$250.00		\$675.00 \$250.00
ASSAYING COST		
98 soil sample at \$10.00 ICP 56 soil sample at \$8.00 gold fire assay 3 rock samples at \$13.00 ICP		\$980.00 \$448.00 \$39.00
TRAVEL COST		
Helicopter cost 1.8 hour		\$1775.00
REPORT COST		
report writing cost		\$500.00
. .	TOTAL	\$41,092.00

Alpine claims 1-38



AIPINE Claims NTS H 115 P/15 2001 GRID LOCATION --. MAP 504 4500 N *00P 1000 

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YUKON'S COMPLETE QUALITY PRINTING CENTRE



Copper - LEAD - ZINC

411D Strickland Street, Whitehorse, Yukon Y1A 2K3

Phone : (403) 667-4639 Fax : (403) 668-2734

Date SEPTEMBER / 2001 Project AlpiNE Claims

Job No. By. SHAWN RYAN Soil SAMPLE

FIGURE #1



YUKON'S COMPLETE QUALITY PRINTING CENTRE

ARSENIC Soil Anomaly

411D Strickland Street, Whitehorse, Yukon Y1A 2K3

Phone (403) 667-4639 Fax (403) 668-2734

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98 Samples 98-Pulp

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AlpiNE Claims NTS # 115 P/15

LINE STATION Soil SAMPIR

MAYO Mining DISTRICT.



INTERNATIONAL PLASMA LABORATORY LTD

Client: Northern Analytical Laboraturies

CERTIFICATE OF ANALYSIS L 01J1201

Vancou 3 C 3E1 Canado Phone (604) 879-7878

Fax (604) 879-7898

Email ipl@direct ca Page 2 of 3 Section 1 of 1

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Vancor 8 C Canad 3E1 Phone (604) 879-7878 Fax (604) 879-7838 Email ipi@direct.ca

CAT ALCOANDER'S WASHING THE OWNER, WHO

Client: Horthern Analytical Laboratories
Project: MOMMO22

98 Samples

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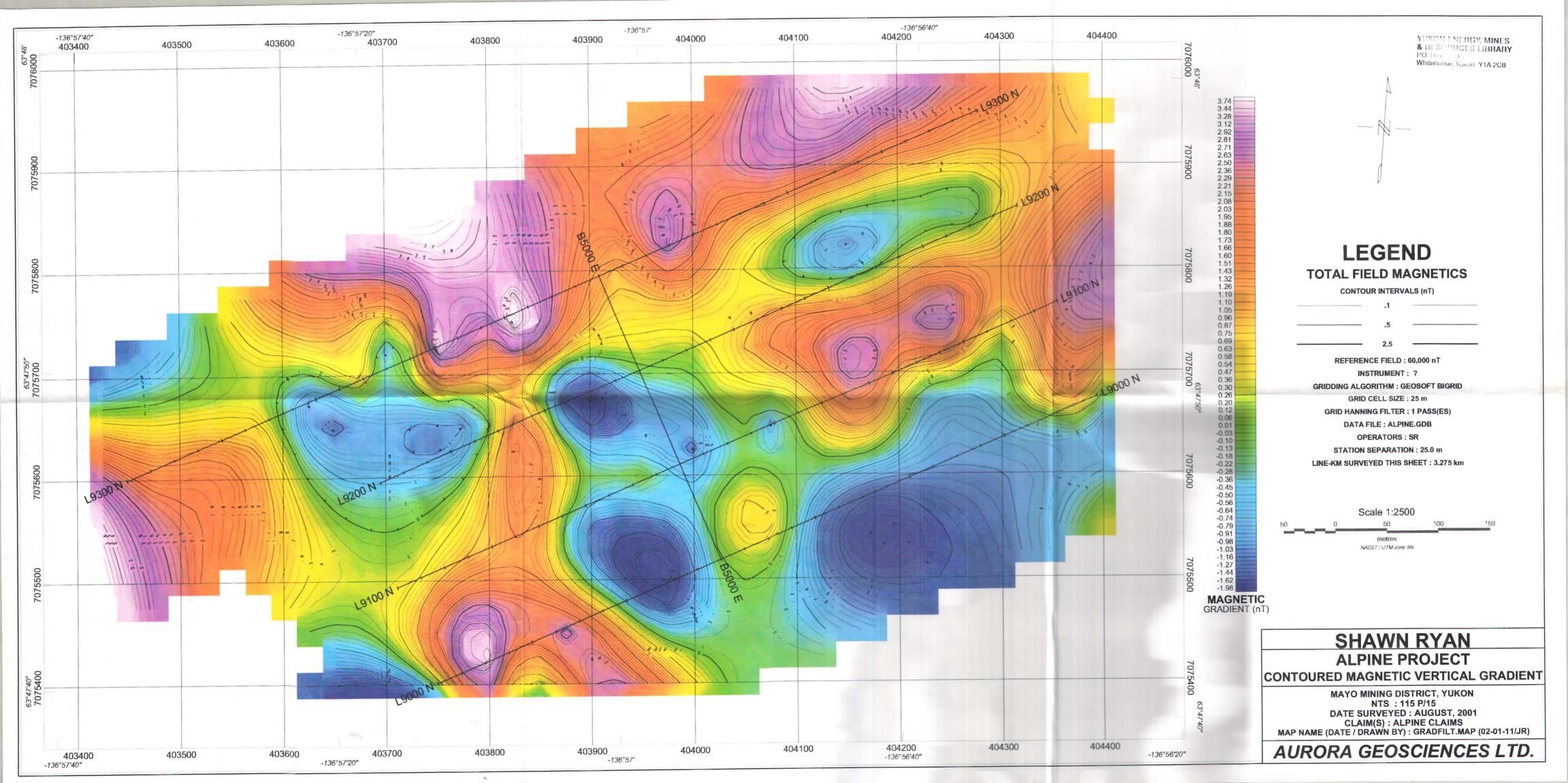
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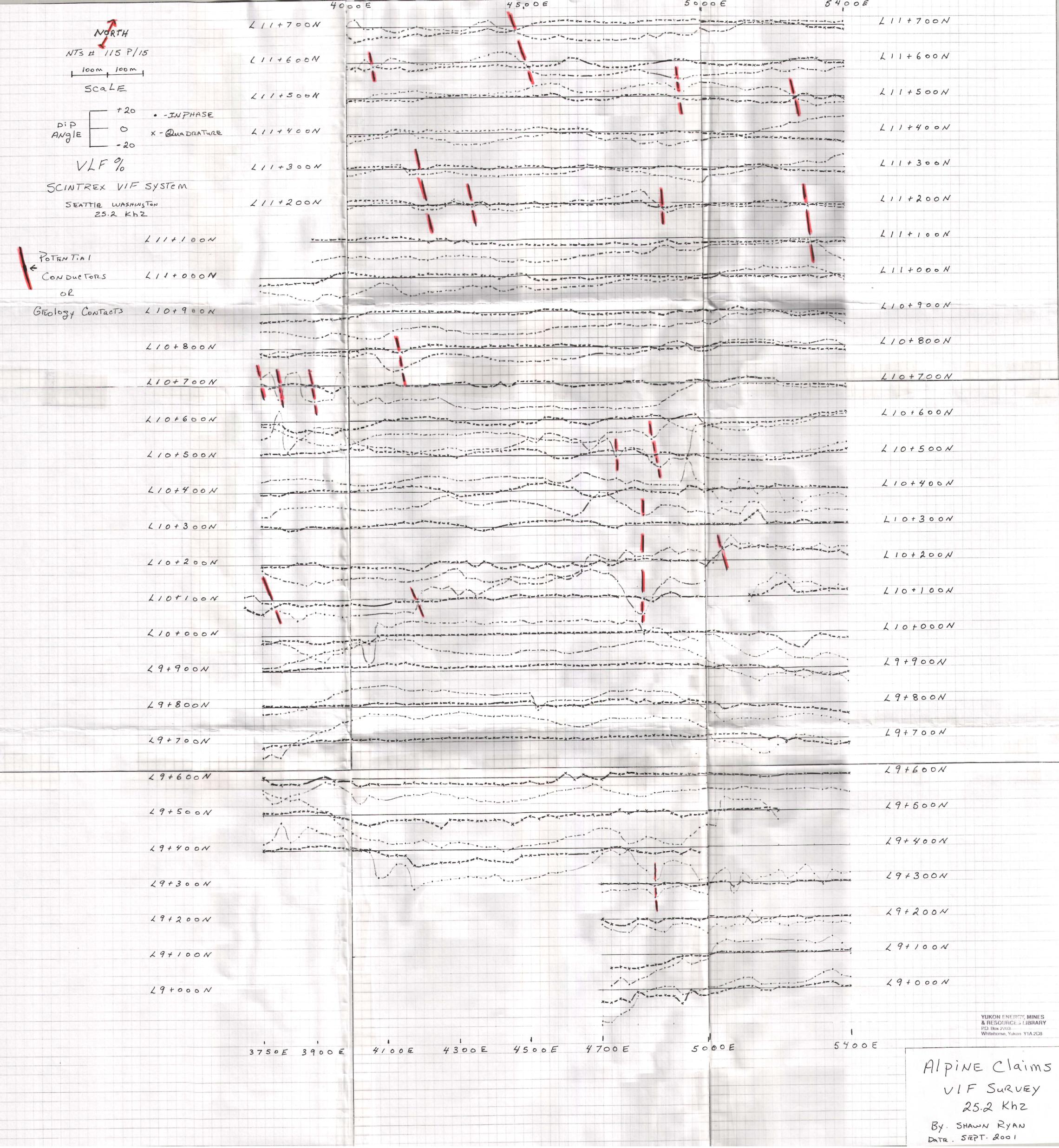
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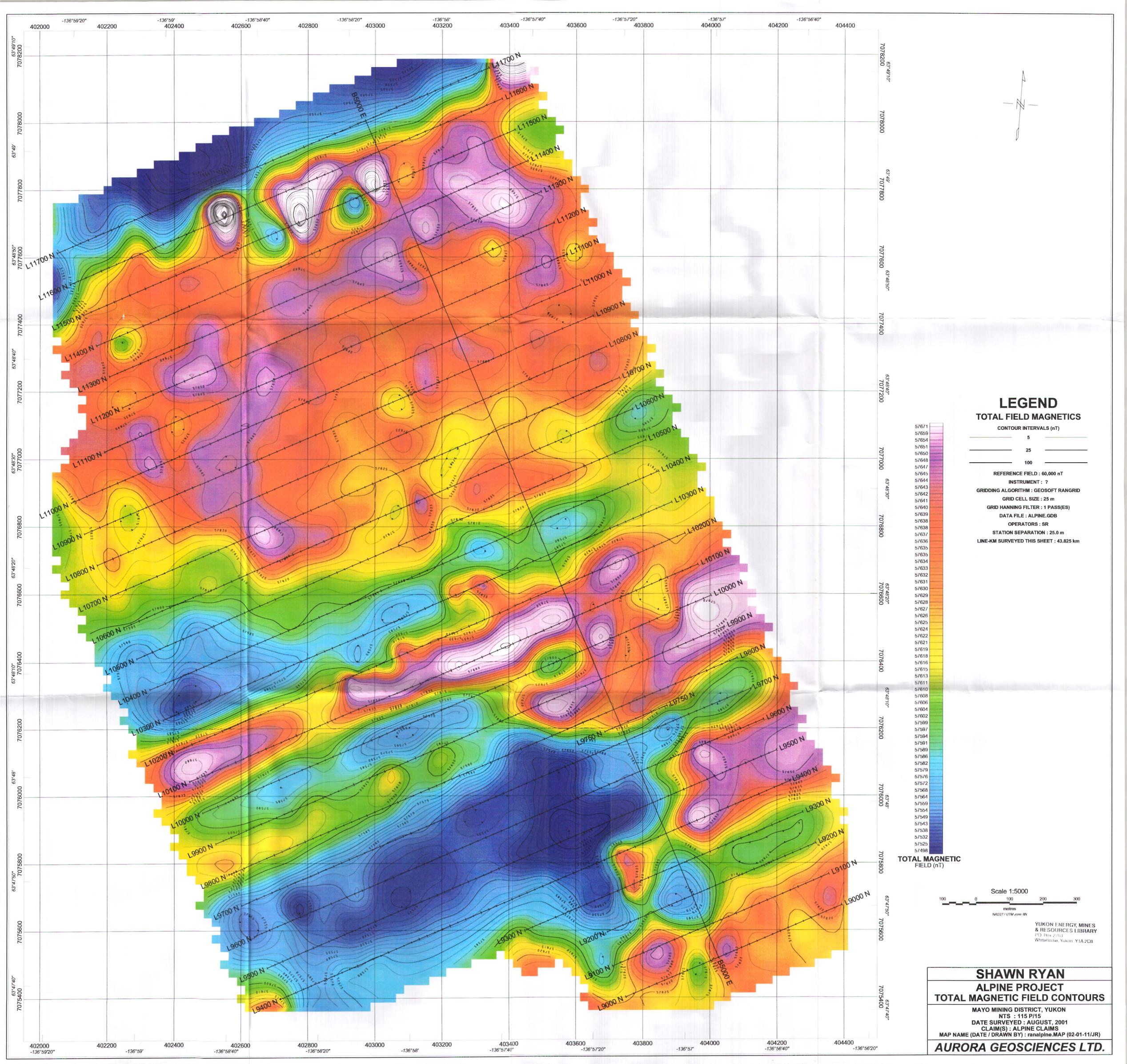
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ALPINE TARGET

A) PROJECT LOCATION

- 1) Alpine 1-38 claims
- 2) Mayo Mining Division, located on NTS # 115 P / 15 at Latitude 63' 47' 30 N, Longitude 136' 57 W.
- 3) Claim location map with proposed grid work is include in apendix of this proposal.
- 4) Claim map include in apendix. The alpine claims 1-38, YCO1901-YCO1938.

B) ACCESS

The way to access the Alpine claims is via helicopter from Mayo, which is located 35 miles to the south-east.

C) 1) MINERALS

The main mineral sought after is Gold and Base metal such as Zn, Pb and Cu.

2) DEPOSIT TYPE / GEOLOGY

I have spent numerous hours reviewing data of different deposit models and have come up with two ideas. The ideas are base on known data from the property that has being compiled from past assement report and from new research from the scientific community.

Model deposit number one come from a research paper called "Intrusion-Related Gold Deposits Associated with Tungsten-Tin Provinces", by J. Thompson et al. In this paper the author discuss the Kori Kollo area of Bolivia. The Kori Kollo deposit comprise of steeply-dipping, sheeted array of gold-bearing pyrite veinlets(1.5% of the rock) bordered by quartz-sericite-pyrite alteration. The veinlets, 0.1-15 cm thick, consist of early pyrite with trace arsenopyrite and chalcopyrite and late minor amounts (<1%) of jamesonite, galena, stannite, bournonite, bismuthinite, stibnite, sphalerite, tetrahedrite and realgar. Approximately 60% of the gold is associated with the late polymetallic sulphides in veins, with the remainder occurring with pyrite in veins and disseminated in the wallrock porphyry. The gold/silver ratio is approximately six and gold occurs with elevated arsenic, antimony, copper, zinc, lead, tin, tungsten and bismuth contents. Unlike other deposit described in this paper, copper occurs with gold at Kori Kollo; however copper concentrations in the deposit average <100 ppm.

The Kori Kollo model give some weight to the geochem signature I'm finding on the property. I also found another paper called "Characteristic of Mineralization Associated with Intrusions of Mid-Cretaceous Tombstone-Tungsten Magmatic Belt, Yukon by Baker et al. On page 15, the topic of "Au Mineralization Hosted by Metasediments Rocks", discuss metasediments style of mineralization. It states that Quartz veins occur locally but most mineralization is replacement style. Disseminated and vein-related gold mineralization hosted by non-carbonate rocks occurs in several areas including Brewery Creek, Ida and locally at Clear Creek. Zones of this style are characterized by sheeted to stockwork quartz veins and quartz-rich breccias with variably disseminated minelization. Each style of mineralization is found both within and outside contact aureoles, and although usually distal to main-stage intrusions some zones are proximal to dikes. In both styles of mineralization, arsenopyrite and pyrite are the principal sulphides with lesser galena, sphalerite, chalcopyrite and jamesonite accompanied by muscovite, chlorite, quartz, carbonate and rutile.

Again this is the same geochem signature and actually geology. On the Alpine claim there is pyritic breccia zone along the Forty Mile creek drainage with anomalous Zn, Ag and As in soil over the area.

The second potential model deposit that should not be over looked is base-metal. I have found a 1 meter wide massive sulphide vein of Zn,Pb and Cu in a shear zone. This vein is located along the Forty mile creek. It stiking north-west and dipping 10 degrees to the north. The vein appear to be heading towards a large I.P. anomaly outline in 1982 by Cominco geophysical department. This massive sulphide showing could be part of a larger remobilised system.

Taken both these model potential into account make the Alpine claim block a interesting target.

The local geology describe by Don Murphy in Bulletin 6 of "Geology of McQuesten River Region, Northern McQuesten and Mayo Map Area, Yukon Territory. Don description is the area lies in the Tombstone Stain Zone, the Yusezyu Formation (unit PyT) comprise prominently foliated and lineated quartzofeldspathic and micaceous psammite and muscovite-chlorite(-biotite) phyllite. Don also has noted that the Alpine claims area has carbonate rocks and are more common in the structurally, and possibly stratigraphically, deeper southern part of the map area than elsewhere. This carbonate rich belt within the Yusezyu Formation extends from the Clear Creek map area in the west across Spraque Creek and into Seattle Creek map, where it occurs just above the Robert Service Thrust.

A Cominco Assement report on the Sterling claims describe the geology as a silvery-grey, brown and black sericite-chlorite schists and quartzites. These metasediments are part of the Yukon Group schists of Proterozoic age. Schistocity and bedding, which appear to be roughly coincident, dip gently to the north.

Intruding this unit are granitic plugs, of creataceous age. This unweathered intrusive is tan to grey in colour, fine to medium grained and occasionally contains phenocrysts of biotite and hornblende in a fine grained groudmass of quartz and felspar. Locally, this unit contains up to 5% pyrite ans lesser amounts of arsenopyrite.

Near vertical quartz veins cut the schist and tourmalinization is common along parts of the creek.

E) REASON

My main reason for applying for a target evaluation is because the Alpine Claims have as one geologist express lots of smoke. The Alpine Claims have receaved a fare amount of work in the past mostly for tin style minerelyzation. I have compiled data from assement reports, GCS reports, scientific reports and recent new geology maps.

The first piece of data used to target the Alpine area was Don Murphy new regional mapping. Don assayed various rock units on his 1994 regional mapping of the Spraque Creek Map. Don found two anomalous rock sample that where anomalous in Au, Ag, Cu, Pb, Zn, As, Bi. This led me to take notice of this new gold area. I was then very encouraged to find Jeff Bond,(YTG geologist) regional silt sampling program of the Clear creek and Spraque creek map sheets. Jeff found the highest gold assay (520ppb)on both maps sheets sitting on Forty Mile creek. The location was 2.5 kilometers downstream from Don Murphy anomalous rock sample.

Now this got my attention and I proceeded to evaluated all data I could get my hands on. I found in the Mayo Mining Recorder office a assement report from Cominco. Cominco did alot work in the late 70 and early 80. All work was directed towards tin deposits. Cominco did geology work and a I.P. survey. Cominco located several Tombstone intrusion dikes running along the ridge top over looking the Forty Mile creek. Cominco geophysical crew also found three I.P. anomaly along Forty Mile creek. One of these, Anomalies B which strike in a east-north-east pattern actully comes running towards Forty Mile creek 250 meters up stream from Jeff Bond silt geochem Au anomaly. I proceeded to prospected the area during the summer of 99 on a YTG grassroot prospecting program.

I relocated part of Cominco old grid and took a few soil sample over the I.P. anomalies. The results where mix. Gold value where low over Anomaly B and Anomaly A had marginal anomalies gold value with assay running from 5 to 26 ppb Au. This does indicate that gold is coming from Anomaly A but not as high as expected. What did return anomalous from Anomaly A was Zn. Value ranging over 100 ppm to a high of 242 ppm Zn. This type of anomaly was unexpecte but does make some sense with a one meter massive sulphide vein sitting 250 meters up stream from these anomalous Zn soil sample. The massive sulphide vein is striking north-west and dipping 10 degrees to the north. The direction it's dipping is interesting because it's heading right under Anomaly A. Could this vein be part of a remobilization system coming from Anomaly A?

Another interesting soil came from the ridge top over looking Forty mile creek. The soil ran 42ppb Au, 23ppm Ag, 107ppm Cu, 1382ppm Pb, 1192ppm Zn, 2836ppm As, 24ppm Cd and 31ppm Bi. This is very high geochem anomaly that should be follow up. The anomalous soil is situated 1 kilometer south-west of the massive sulphide showing. Again are they some how link together I'm unsure but the geochem signature does seem to lead this way. The geochem from the massive sulphide showing give a signature of 13ppb Au, 16.5ppm Ag, 6080 ppm Cu, 372ppm Pb, 22% Zn, 86ppm As, 19ppm Sb, 4ppm Hg, 3000ppm Cd, 331ppm Co.

Cominco exploration objective was to use I.P. to define possible sources of geochemical Sn anomalies. The cassiterite mineralization is believed to be associated with pyritized quartz plugs and dykes, which should respond to the I.P. method. They found three anomalies. Cominco geologist uncovered a rusty brecciated quartz-tourmaline on the side of Forty Mile creek. This is located on Anomaly A. The breccia was tested for Cu, Pb, Zn, Ag and Sn. The only anomalous value found was .11% Pb, .05% Zn, .20 o/z Ag and max Sn of .07%. A small test area but the rusty quartz breccia could represent a part of a larger breccia system.

There just so happen to be a new showing found within the last two years called the Bear Paw breccia zone. It's located 8 kilometers to the north-west of Anomaly A. The Bear Paw Breccia zone is found in Upper Proterozoic Hyland Gp., of the Tombstone strain-zone. It's alteration is pyrite, pyrrhotite, quartz and tourmaline. I will note that the first sampling of the Bear Paw breccia was mix. Some rock sample had gold values some did not(pers.comm.Greg Hart). This point out the need to take more samples from the same area, and not to get to discourage on the first few sample if they dont return anomalous values. Such as Cominco sampling of the breccia zone on Anomaly A.

The next piece of evidence found to increase the potential for gold target on the Alpine claim came from Stephens et al. report on Structural evolution and control on gold mineralization at Clear Creek, Yukon.

Stephens explain that application of basic fault percolation analysis suggest the most favourable sites for pooling, and thus gold mineralization, are BF b fracture zones, east to east-southeast-striking (115*) connected to BF a fault conduits. Anomaly B of Cominco I.P. survey is heading in 80-85* direction. I wonder if this anomaly is link to a possible structure zone link between two large granite system. If you look at Bostock regional Geology map number 48-25A of the McQuesten, you will see a large granite dike running north-west parralle to the Forty Mile creek.

The granite stops abruply at around the eastern end of Anomaly B. You can also see a large granite dike that countinues offset to the west-north-west. I wonder could this be fault related and is the I.P. anomaly just coincidental that it lines up perfect with Stephens theory of BF b zone conecting two BF a zone. I think this new data of Stephen give Anomaly B some more credability as a gold target.

E) PROPOSED WORK

The proposed work is to cover all the anomalous area with one grid. The idea is that I have a couple of possible deposit model and that I cant link anything together. I feel that one grid covering all anomalies with geophysical work would help in interpretation and possibly led to a option deal.

I'm proposing to cut 5.4 kilometers of base line and tie line. I would then add 41.2 kilometers of flag lines. I will perform a magnetic survey on 46.6 kilometers of lines. I will also perform 41.2 kilometers of VLF-EM survey. The grid would cover and expand Cominco old grid. So that we can use geophysical data from a magnetic and VLF-EM survey to help in interpretation of Cominco I.P anomaly.

As for environmental concern the proposed work should be low impact. All cut lines will be less than 5 feet. Any large trees in our way of cut line will not be cut and we will go around them. All garbage will be flow out at the end of the job. No trenching is proposed on this project.

F) TECHNICAL REPORT

The technical report will include a description of the methods of survey and equipment used; dates of survey; number of stations established; kilometers of line surveyed; copies of geophysical readings or profiles; pertinent calculations; an interpretation of data collected which would include references to the available geology; and conclusions and recommendations shall be submitted.

G) ESTIMATE WORKING DAYS

The proposed number of working days for this project will be about 20-30 working days for two men.

Claim MAP

NOTICE

THIS MAP IS ISSUED AS A PRELIMINARY GUIDE FOR WHICH THE DEPARTMENT OF INDIAN AFFAIRS AND NORTHERN DEVELOPMENT WILL ACCEPT NO GRESPONSIBILITY FOR ANY ERRORS, INACCURACIES OR OMISSIONS WHATSOEVER.

SEE ADJACENT MAP SHEET(S) EDGES FOR ADJOINING MINERAL CLAMS

TOPOGRAPHY COMPILED FROM I 50,000 NATIONAL TOPOGRAPHIC SERIES CONTOUR INTERVAL 500 FEET

115-P-15

QUARTZ

LATITUDE 63° 45' TO 64° 05' LONGITUDE 136° 30' TO 137° CO'

CANADA

CEPARTMENT OF NORTHERN AFFAIRS AND NATIONAL RESOURCES NORTHERN ADMINISTRATION AND LANGS BRANCH MINING AND LANGS STANCH SCALE It 31,680

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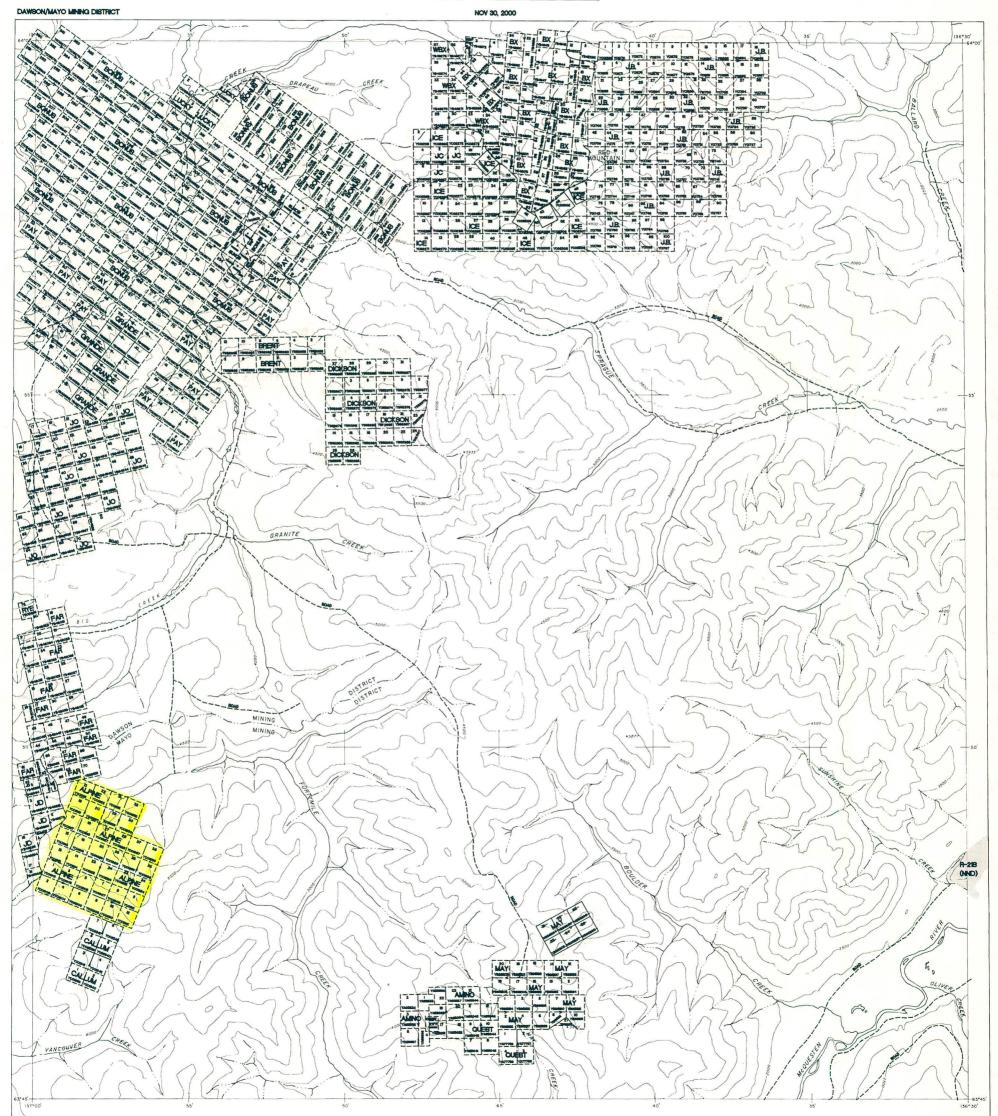
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PYT TOMBSTONE STRAIN ZONE

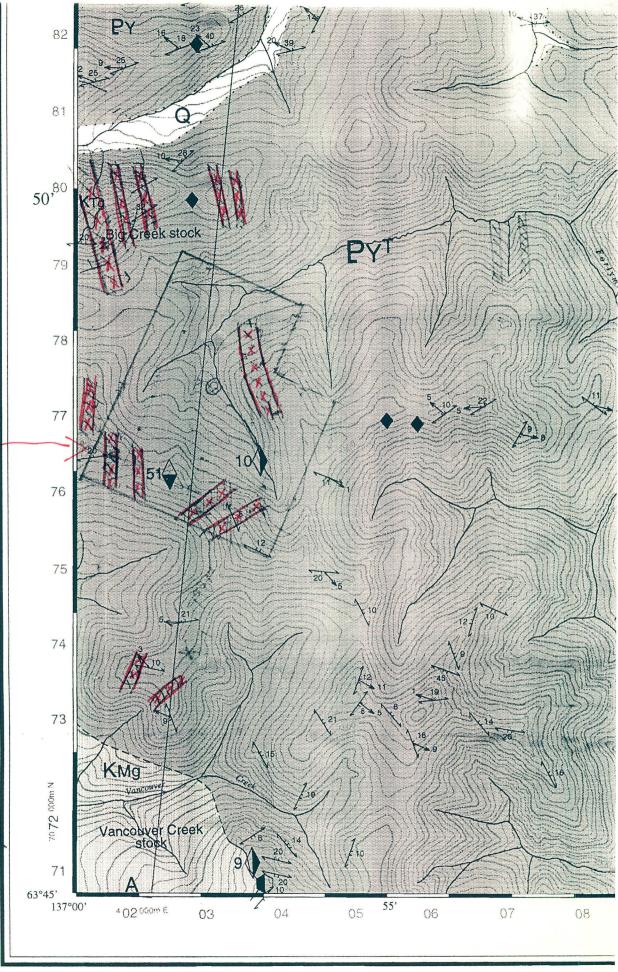
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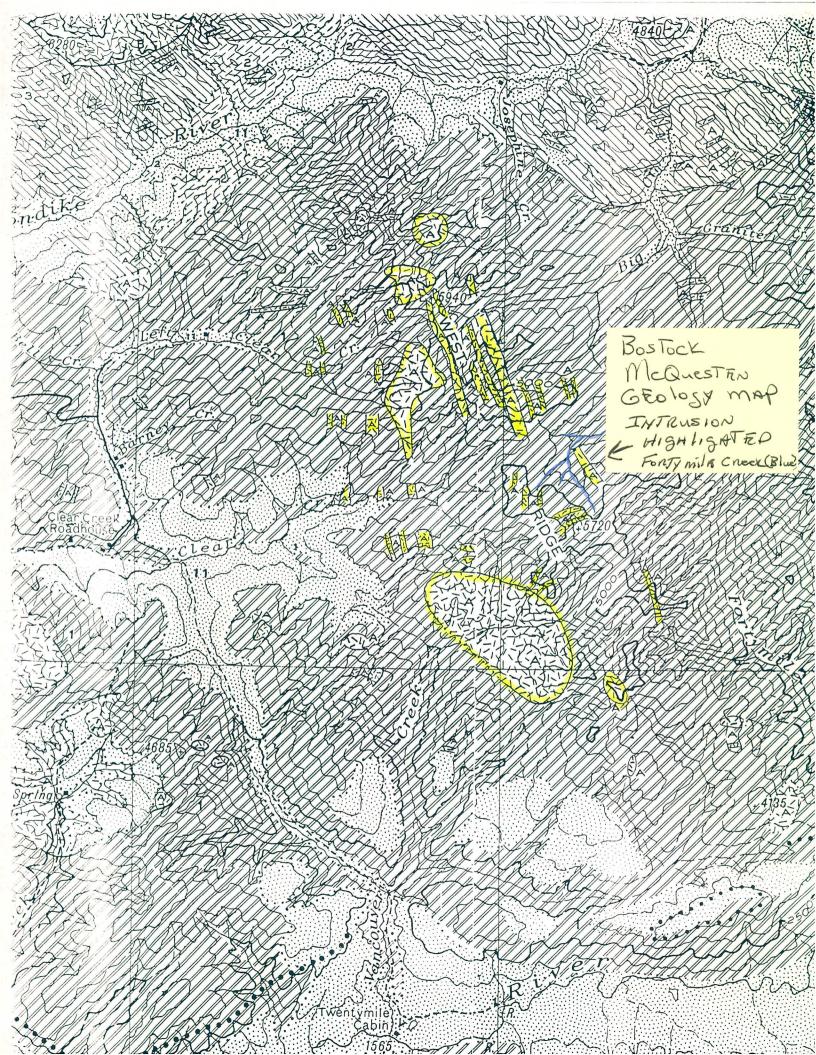
Alpina Claim.
Block

GEOSCIENCE MAP
1996-2
SPRAQUE CREEK
AREA

NTS 115 P/ 15







EXPLORATION NTS: 115P COMINCO LTD.

WESTERN DISTRICT 28 November 1980

GEOPHYSICAL SURVEY)
ON THE

NEL GROUP

INTRODUCTION

A five man Cominco geophysical crew completed an 18.9 km induced polarization survey on the Nel Group from Aug. 11-29.

The exploration objective was to use I.P. to define possible sources of geochemical Sn anomalies. The cassiterite mineralization is believed to be associated with pyritized quartz plugs and dykes; which should respond to the IP method:

This report describes the procedure and results of the I.P. survey completed on the Nel Group.

LOCATION AND ACCESS

The Nel Group is located approximately 35 kms northeast of McQuesten, Yukon, and is within 12 km of a road. The closest point of this road to the property can be reached by turning east off the Klondike highway 30 kms up the road from McQuesten (heading towards Dawson City). This turnoff by Barlow Lake runs through a department of highways gravel pit. Approximately 20 kms from the highway the winding single lane dirt road reaches Clear Creek, where the left fork of the road heading up the stream must be taken. After another 5 kms and numerous creek crossings one reaches the beginning of a long uphill ascent, just past Nel's Placer Claim. A large clearing at the bottom of this hill is the closest point of the road to the Nel Group. A helicopter from Mayo or Dawson City is then required for the last 12 kms.

GEOPHYSICAL SURVEYS

Induced Polarization (I.P.)

A Huntec Mark III receiver was used in conjunction with a Phoenix IPT1 2.5~kw transmitter and generator. Resistivity and chargeability readings were taken for 4 separations (ie. n=1,2,3 and 4) which are presented in

pseudo-section form on plates 187-80-5 through 187-80-22. The anomalies on these plates have been classified as follows:

-13

Chargeability -

40-60 msec. on n=1,2 moderate >60 msec. on n=1,2 strong >40 msec. on n=3,4

Resistivity

<500 Ω meters at n=1.2

The lines were surveyed 100 metres apart at a station interval of 50 meters. Chargeability and resistivity values for n=1 are presented in plan form on plates 187-80-3 and 187-80-4. Anomalies indicated in pseudo-section are also included in the chargeability plan to incorporate anomalies at depth with what is plotted for n=1.

Mention should also be made to the problem of transmitting good, steady currents, especially in the areas above tree line where abundant talus and scree occurred. Tin foil electrodes and plenty of salt water were used for current stakes, in trying to improve on currents which were sometimes below 0.1 amps.

Description of Results

Three anomalies stand out which have high chargeabilities coincident with low resistivity. They have been labelled A,B, & C on plates 187-80-3 and 4.

Anomaly A rises quickly from background to a plateau having considerable width, extending almost the full length of the last few southern lines. High chargeabilities of about 2 to 3 times background are maintained in conjunction with low resistivities. Chargeabilities vary within this anomaly to give four distinctive peaks more or less symmetrically bisected by the creek. The resistivity low, on the other hand, is limited to the area on the east side of the creek. This zone remains open to the south.

Anomaly B, to the north, is very narrow and strikes sub-parallel to line 11,500N. The chargeabilities form a very sharp, strong high at the baseline, where the resistivities also take a sharp dip with respect to their surroundings. Significantly higher resistivities to the north of this anomaly point to the possibility of a change in lithology. This zone remains open to the east and west.

Anomaly C, centered on line 11,300N, station 4800E, is associated with disseminated pyrite found nearby. The chargeability high is not quite as large as the previous 2 anomalies discussed, but it is still greater than double the background values. The resistivity over this small, sharp anomaly is also very low.

Two eastern extensions were surveyed on lines 11,100N and 11,200N, where a previous McPhar I.P. survey had spotted metal factor anomalies. The present survey encountered an area of lower resistivity (which could account for a metal factor anomaly), but no coincident chargeability high.

CONCLUSIONS

The I.P. survey has discovered 3 anomalous zones having chargeabilities considerably higher than background. They are associated with low resistivity. Anomaly A to the south has a wide, plateau-like chargeability high. Anomaly B to the north is a long, narrow zone which is close to and possibly associated with anomaly C centered on line 11,300N, station 4800E.

Respectfully submitted by:

Ingo Oackasch

Geophysicist

Alan Scott Geophysicist

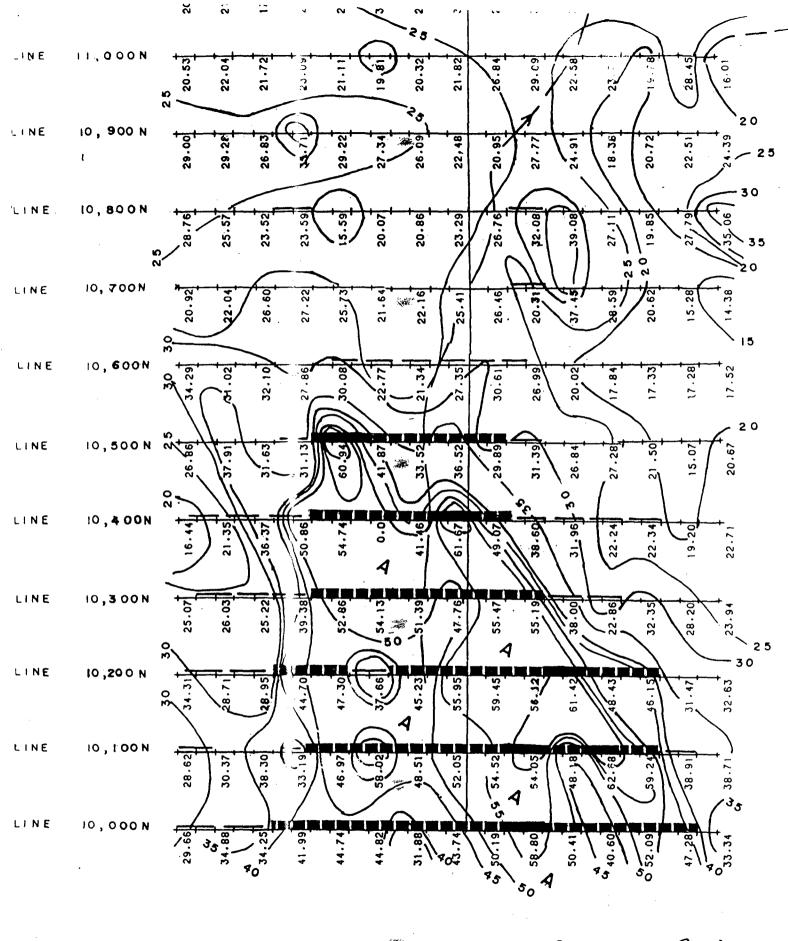
Approved for release by:

G. Harden Manager, Western District

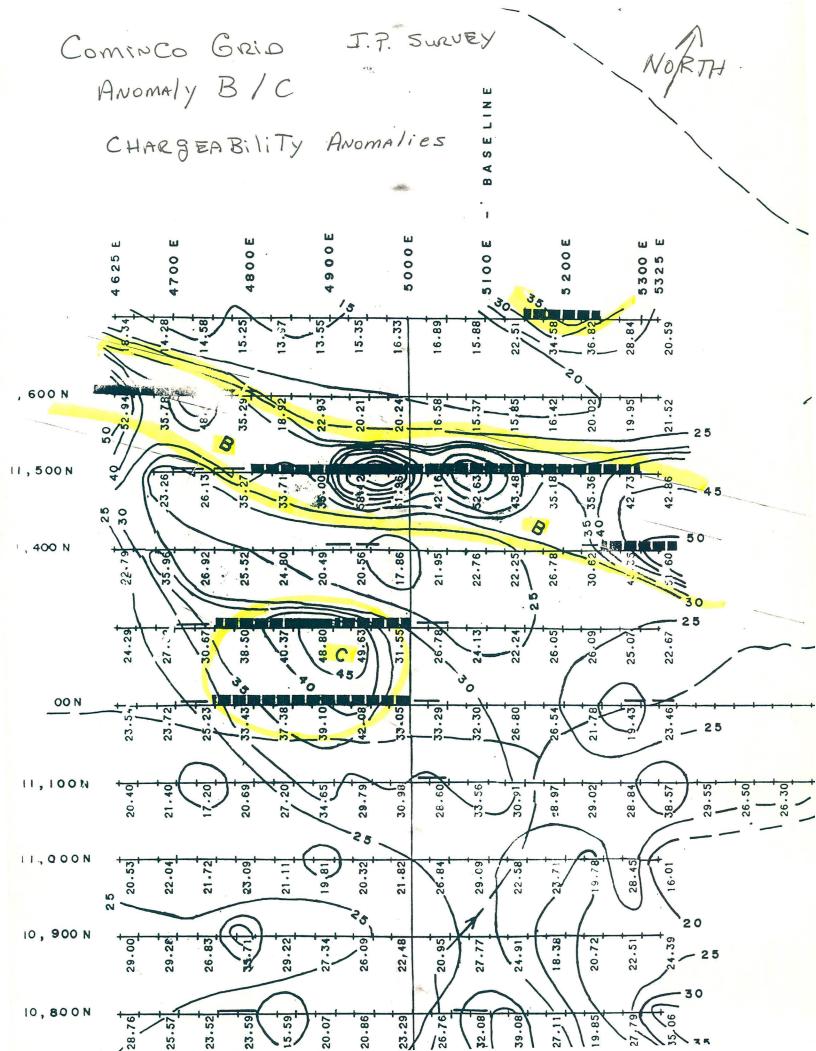
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Distribution

Mining Recorder (2) Western District (1) Geophysics File (1)



Cominco Grio Anomaly A Alpina Claim





I.P. ANOMALY

Cominco Grio Location

INTERNATIONAL PLASMA LABORATORY LEO

Project: PO# 05730

Client: Northern Analytical Laboratories

Phone (604) 879-7878

Fax (604) 879-7898

Out: Sep 02, 1999 Page 1 of 1 Section 1 of

8 Samples 8=Pulo F081815:45:46:990902997 In: Aug 31, 1999

Sample Name	Ağ pp	Tieu?	Pb)	PPR PPR	AS Sb ppm ppm	_	Mo Ti	Bi ppn	ppm	'Co ppm	Ni ppm	Ba ppm	ppm		y ppm	Mn ppm	La ppe	Sr ppm	Zr ppm	Sc ppm	Ţi ‡	(A)	Can X	Fe 1	Hg \$	K X	Na X	p *	
ALPSR 99802, P. ALPSR 99816 P. ALPSR 99831 P. ALPSR 99833 P. ALPSR 99834 P. ALPSR 99834 P. ALPSR 99833 P. ALPSR 99834 P. ALPSR	1.8 4.2 0.7 1.2	8 13 1866 551 22	87 7 6 3	15 97 39	718 < 4.7x 19 108 < 46 < 654	< < < <	1 < 2 < 2 < 2 < 1 < 3	568 5	« « « «	42 42 20 5	12 67 43 17.	132 12 10 4 30	< < < < < < < < < < < < < < < < < < <	66 118 41 67 72	< 3 10 6	25 37 299 99 55	12 7 6 3	16 24 47 27 4	14 1 3 2 4		< 0.02		0.03 ⁴ 1.48	1.07 124	0.01 0.03 0.04 0.01	0.10	0.03 0.23	0.01 0.03	***************************************
	10:.2. 16:.5 0.7	2661 60807 27	372	F106 227 526	4975 5 186 19 1071 <	< (4) <	< < < < < < < < < < < < < < < < < < <	2	15.5 0.34 0.4	95 331 8	13 8 7	2 4 9	« « «	170 147 206	< < <	29 109 234	< 3	i 1	1 1 1	< < <	<	0.03 0.02 0.06	< 4	F.67:			0.02	< <	

ROCK SAMPLE LOCATION MAP NEXT PASE.

Alpse 99237 - MASSIVE Sulphide SHOWING

Min Limit Max Reported*



Produced and printed by the SURVEYS AND MAPPING BRANCH, DEPARTMENT OF MINES AND TECHNICAL SURVEYS, 1961, from air photographs taken in 1949 and 1953.

O ROCK SAMPLE LOCATION JAMPIR LOCATION MAP



CERTIFICATE OF ANALYSIS iPL 99H0822

2036 Columbia Street Vancouver, B.C. Canada V5Y 3E1 Phone (604) 879-7878 Fax (604) 879-7898

INTERNATIONAL PLASMA LABORATORY LTD

Client: Northern Analytical Laboratories **Project:** P0#05742

13 Samples 13=Pulp

[082216:47:34:99090399]

Out: Sep 03, 1999 In: Aug 31, 1999

Page 1 of 1 Section 1 of 1

	Sampl	e Na	ame	•	Ag } ppm	Cu ppm	Ppm Ppm	Zni ppm	As ppm p	Sb ppm	•	Mo ppm p	pm .	Bi]	Cd }	Co ppm	Ni ppm	Ba ppm	ppm W	Cr ppm	V ppm	ppm		Sr ppm	Zr ppm	.Sc ppm	Ti *	Al X	Ca *	Fe *	Mg *	K *	Na *	P *	
	ALPAA ALPS9 ALPS9 ALPSR 99505	99 S 9 SS 99 S	15) 02	P P	0.6 0.2 0.2 0.9 0.7	39 17 24 43 185	24 16 43 41 13	183 102	1721 84 59 1227 28	<	< < < <	1 2 1 1 2	< < < < < < < < < < < < < < < < < < <	< < < < 43	3.3	13 14 10 10 11	35 14 26 26 26 26	108 129 87 61 109	Υ	18 21 16 12 23		1129 1121 810 292 244		17 16 30 8 55	1 1 1	1 (1 (1).02).01 <	1.39 1.07 0.85	0.25 2 0.21 2 0.48 2 0.03 3 0.18 5	2.56 (2.38 (3.86 (0.36 0.34 0.24	0.03 0.03 0.05	0.02 0.02 0.02	0.06 0.07 0.05	
Ps	99506 99507 99508 99510 MCF 99 MCSR 9	9- SS	501 - 501	P P 2 P	0.8 0.9 1.5 3.0 0.3 0.3	314 493 478 107 22 31 58	24 17 24 1382 21 11 11	83	16 < 2836 20 17 15	\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \		2 2 1 1 3 2 3	۷ ۷ ۷	201 97 74 31 2		20 10 12 14 9	43 26 37 32 15	134 179 176 89 205 396 627 335	~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~	27 26 29 12 17	22	676 414 696 1030 376 681 305	15 17 16 17	22 30 55 40 27 78 42	2 2 2 1 1	3 (4 (2 (4 (5 ().05 ().05 ().01 ().04 (2.65 (2.75 (0.71 (1.09 (0.20 5 0.20 8 0.28 8 0.11 4 0.89 2 0.89 2	8.07 (8.57 (4.78 (2.59 (0.35 0.35 0.22 0.41	0.05 0.07 0.07 0.14 0.11	0.06 0.09 0.02 0.03	0.07 0.06 0.06 0.25	
	SCSR !				0.2	19	6	59 67	13	<	<	2	\ <	₹	<	14	24	335	*	26 39	65	705	15	58	1	4 0	.08	1.39	0.81 3	3.01 ().45).88 \	g.21∙	0.03	0.14	/

Alpanges 10 - Riogr Top Soil Anomal y - Location on Rock Sample Location Map.

Alpanges 12 - Soil From Commo Grio L-10+400 N ST-5000 E

Alpanges 15 - Soil From 1 11 L-10+400 N ST-4850 E

3 1 10 2 0.1 Min Limit Max Reported* Method ----No Test Ins=Insufficient Sample Del=Delay Max=No Estimate Rec=ReCheck m=x1000 %=Estimate % NS=No SampleP=Pulp

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	Client : North Project: WO#00		lytic	al Labo	pratories	33	3 Sar 33=Pu	nples	,	<i>></i> د			<u>ر</u> ر		' '		[]	L02514	:59:0	5:991	02799			t 27. t 25.			Pa Se	ige ection		of 1 of 1	
	Sample Name	Pt ppb	Ag ppm	Cu ppm	Pb1 Zi ppm ppi			_	T1 ppm	Bi ppm	Cd ppm	Co ppm	Ni ppm	Ba ppm	ppm W	Cr ppm	ppm V	Mn ppm	La ppm	Sr ppm	Zr ppm	Sc ppm >-	Ti Xo	A7 - *⊕		Fe *	Mg X	K *	Na *	P X	
	Marie 1902 Marie 1900 Marie 1900 Marie 1904 Marie 1904		12.8 0.2 < 0.2 0.1	1599 13 22 31 13	6 11- 4 21 12 4: 7 1 6	25	59 < < <	< 2 < 13 < 2 < 1 < 1	Y Y Y Y Y	< < < <	< < < <	2 3 5 15 6 1	17	303 121 220 20 47	·	88 34 127 76 93	22	4446 2622 526 84 72	12 23 6 4 <	70 125 72 22 15	1 6 6 2 1	30.	< 0 15 2 06 0	.13 .27 1 .38 0	24 % .68 .41	4.29 5.38 2.48 1.32 0.51	0.25 1.45 0.14	0.02 0.43 0.02	0.01 0.17 0.07	0.01	
主	ASSOCIATES CHARLESTON CHARLESTON CHARLESTON ALPAASO1		0.2 0.2 0.3 0.2 0.2	102 32 103 3 14	6 12 11 3 16 21 64	51 < <	< < < < < <	< 1 < 59 < 2 < 1 < 2	V V V V V		< < < < < < < < < < < < < < < < < < <	T 1	9 8 20 3 16	48 825 6 88 61	· · · · · ·	64 82 71 167 19	2 9 12 < 35	50 69 165 982 157	3 < 4 12	17 24 42 39 7	1 1 2 1 <	< 0.	< 0 03 0 < 0	.15 0 .54 1 .07 1	. 07 . 06 . 08	1.87 1.56 3.39 0.80 2.38	0.01 0.12 0.42	0.07 < 0.03	0.07 0.02 0.02	0.02	
3:	ALPAAS02 ALPAAS03	P	0.2 0.3 < 0.2 0.1	16 31 23 37 26	21 82 43 16 9 4 6 6 7 7	73/	<	< 2 < 1 < 1 < 2 < 2	V V V V		< < < <∺	6 13 8 8	17 29 12 36. 28	84 69 220 325 246	<	20 13 24 42 39	35 22 46 53 62	258 699 264 443 365	12 15 8 16 10	6 8 22 37 39	1 1 1 2	1 0. 3 0. 3 0.	02 0 08 1 09 1	72 0 00 0 23 0	. 10 . 51 . 59	2.45 2.77 1.69 2.31 2.60	0.28 0.51 0.68	0.03 0.07 0.28	0.01 0.02 0.02	0.05 0.07 0.08	
ų-		P	0.1 < < 0.1	22 12 12 17 23	11 70 7 58 8 53 5 55 10 58	9 < 8 6 9	< :.	< 2 < 1 < 1 < 1 < 2 <	V V V V V V	V V V V V	< < < < < < <	9 8 8 7	16 18 15	277 216 179 171 157	< < < < < < < < < < < < < < < < < < <	28 25 23 18 23	64 57 51 35 55	320 251 242 606 399	12 13 12 11 11	57 48 49 69 76	3 2 2 1 5	3 0. 2 0.	10 1 09 1 06 1	19 0. 11 0. 08 1.	. 90 . 79 . 17	2.52 (2.15 (1.98 (1.78 (2.39 (0.55 0.50 0.47	0.06 0.06 0.07	0.04 0.04 0.03	0.12 0.09 0.08	
5·			0.1 < <	8 24 20 23 16	7 49 6 71 8 76 7 83 5 45	13 23 18 29 16	<	<pre></pre>	< < < < < < < < < < < < < < < < < < <	*	< < < < <	6 13 11 13	31	95 203 187 189 139	·	15 37 35 34 20	36 78 76 90 45	414 376 563 486 427	11 9 21 22 10	43 82 43 55 43	3 4 2 4 2	5 0 4 0 5 0	l4 1. l2 1. l5 2.	<i>77</i> 1.	41 82 06	1.79 (2.90 (2.84 (3.24 (2.01 ().91 ().68 ().83 (0.16 0.08 0.09	0.05 0.04 0.06	0.09 0.12 0.10	
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24/08/99

Certificate of Analysis

Page 2

Shawn Ryan

WO#05730

Certified by

			Certified by
	Comparts #	Au	
	Sample #	.ppb	
S	ALPS99SS06	11	
s ·	ALPSR99S02	<5	
s ·	ALPSR99S03	16 -	
s	ALPSR99S04	18	•
S	ALPSR99S05	66 ~	
s	ALPSR99 S06	222 -	
s	ALPSR99 S07	182 -	
s	ALPSR99 S08	267 -	
s	ALPSR99S09	8	
s	ALPSR99S10	42 -	
S	ALPF99S01	< 5	
S	ALPF99S02	5	
s S	ALPF99S03	11	
o m	ALPF99S04	10	,
m	ALPF99S05	15	
m	ALPCASS	24	
ſ	ALPSR99R02	12	
r	ALPSR99R16	123	
r	ALPSR99R31	931	
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Certificate of Analysis

Page 1

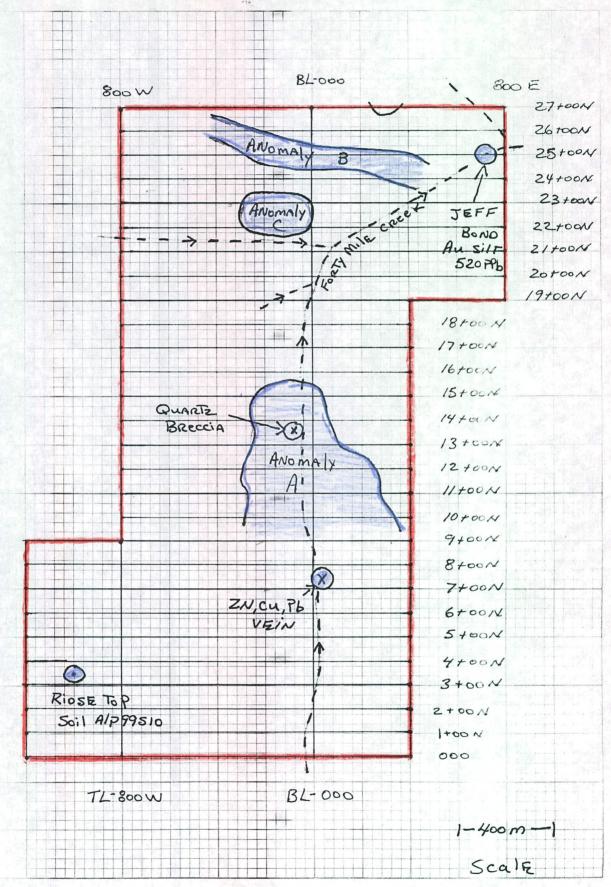
Shawn Ryan

WO#05730

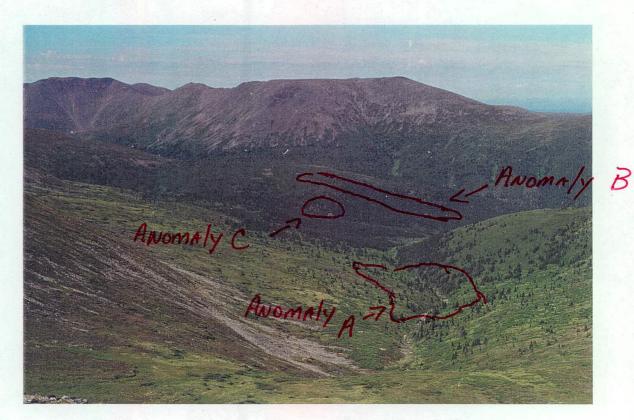
Certified by

	Sample #	Au ppb	
m s m s	MCF99SS01 :: MCF99SS02 :: MCF99SS03 : MCF99SS04 : MCF99SS05 :	365 12 8 <5 <5	
m s s s m	MCSR99SS01 MCSR99SS02 MCSR99SS03 MCSR99SS04	14 - 11 13 - <5 9	
	SCSR99SS0614 SCR99FSS01 2 SCRF99SS02 SCRF99SS03 MCSR99S13	378 - <5 77 5 <5	GRT THIS SAMPIA RERW
s s s s	ALPBB99S01 ALPBB99S06 207 ALPBB99S07 333 ALPCC99S08 333	<5 <5 5 <5 <5	
S S S S S	ALPAA99S11 ALPAA99S12 ALPAA99S13 ALPAA99S14 ALPAA99S15	20 -	↑ ↑ •
s s m s	ALPS99SS01 ALPS99SS02 ALPS99SS03 ALPS99SS04 ALPS99SS05	5 7 - 6 6 8	

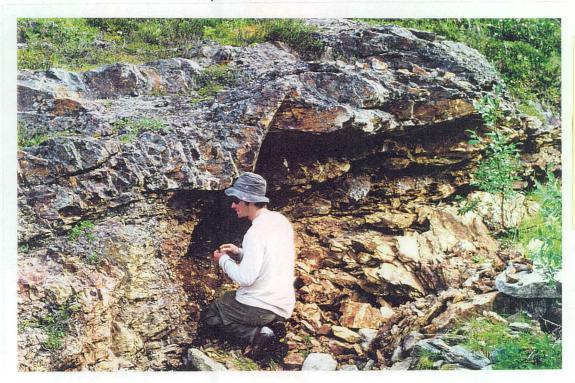




Alpine Claims I.P. ANOMALY
1-38 A.B.C.



LOOKING N-NW TOWARD Big CREEK STOCK. FORTY MILE CREEK



MASSIVE SULPHIDE VEIN