

ARIS SUMMARY SHEET

District Geologist, Nelson

Off Confidential: 90.02.13

ASSESSMENT REPORT 18387

MINING DIVISION: Slocan

PROPERTY: Kusp
LOCATION: LAT 50 08 30 LONG 117 36 30
UTM 11 5554340 456529
NTS 082K04E

CAMP: 007 Tillicum Mountain Area

CLAIM(S): Kusp, Nak 6, Nak 8

OPERATOR(S): Woodcock, J.R.

AUTHOR(S): Woodcock, J.R.

REPORT YEAR: 1989, 21 Pages

COMMODITIES

SEARCHED FOR: Zinc, Lead, Silver

KEYWORDS: Slocan Group, Pyroclastics, Anticline, Stratiform, Pyrite, Sphalerite
Galena, Silver

WORK
DONE: Physical, Geochemical
LINE 1.4 km
ROCK 16 sample(s) ; CU, PB, ZN, AG, CO, MN, SB
SOIL 40 sample(s) ; CU, PB, ZN, AG, CO, MN, SB
TREN 40.0 m 1 trench(es)

REPORTS: 06845, 07054, 17717
MINFILE: 082KSW161

SUB-RECORDER
RECEIVED
FEB 13 1989
M.R. # \$.....
VANCOUVER, B.C.

| | |
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| LOG NO: 0216 | RD. |
| ACTION: | |
| FILE NO: | |

KUSP PROPERTY

Slocan Mining Division 82K-4E

Nak 1-10, Kusp 1 and Naku 1 Claims

| | |
|--|-------|
| LOG NO: 0627 | RD. 1 |
| ACTION: Date received report back from amendments | |
| FILE NO: | |

for

ADASTRAL RESOURCES LTD.

FILMED

**GEOLOGICAL BRANCH
ASSESSMENT REPORT**

18,387

by

J. R. Woodcock

January, 1989

JRW

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THE KUSP PROPERTY

SUMMARY

The Kusp property lies in the Slocan Mining Division about 17 kilometers southeast of Nakusp. Although the claim block extends from the highway on the north to logging roads on the east (at the top of the ridge), access to the Discovery area at present is by helicopter.

In 1977, J. R. Woodcock discovered the Kusp mineralized zone and in 1978 he mapped the zone, did geophysical and geochemical work and a limited amount of drilling (308 meters). In 1987 Adastral Resources Ltd. acquired the property and extended the geochemical and VLF-EM survey discovering an anomaly that extended for more than 1200 meters and was open to the west. Work was renewed on the property in September 1987 when Woodcock visited the property to do some orientation surveys and plan further work. This was followed by some hand trenching.

Results of the geochemical work on the VLF-EM anomaly, especially in the trenches, shows that the EM anomaly is due to a metalliferous horizon in the volcanics, mainly a bleached sericitic schist with abundant pyrite and with anomalous base metals and silver.

Further work is recommended including an extension of the VLF-EM and geochemical survey westward, trenching of the peaks of the known VLF-EM anomaly and deepening of the trenches made in 1987. This should be followed by shallow drill holes spaced along the anomaly in an attempt to discover massive sulphides or trends that might lead to massive sulphides.

INTRODUCTION

In the summer of 1977, J. R. Woodcock observed a large gossan zone and associated bleached areas during an aerial reconnaissance. Silt samples taken along the foot of the steep mountain slope from the creeks draining this gossan area yielded some highly anomalous values in copper, lead, and zinc. The Kusp claims were staked to cover the anomalous drainages and their source area.

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In 1978, Dome Exploration (Canada) Ltd. and Ranworth Explorations Ltd. optioned the property. The 1978 work included a detailed examination of the main zone of interest including geological, geophysical, and geochemical work. This was followed by a limited drill program in which the main anomalous target was tested with 1012 feet (308 meters) of diamond drilling.

In 1979 work consisted primarily of geological mapping along and adjacent to the Kusp claim block. The geological mapping permitted a classification of rock types and units and the mapping of the main geological structures.

In 1987 the property was sold to Adastral Resources Ltd. and in July of 1988 a two-man crew completed a more extensive program of soil geochemistry and VLF-EM work. This new grid covered and extended beyond the small original grid of 1978. The results were covered in the report by J. R. Woodcock, August 19, 1988 which was submitted for assessment work on August 26, 1988.

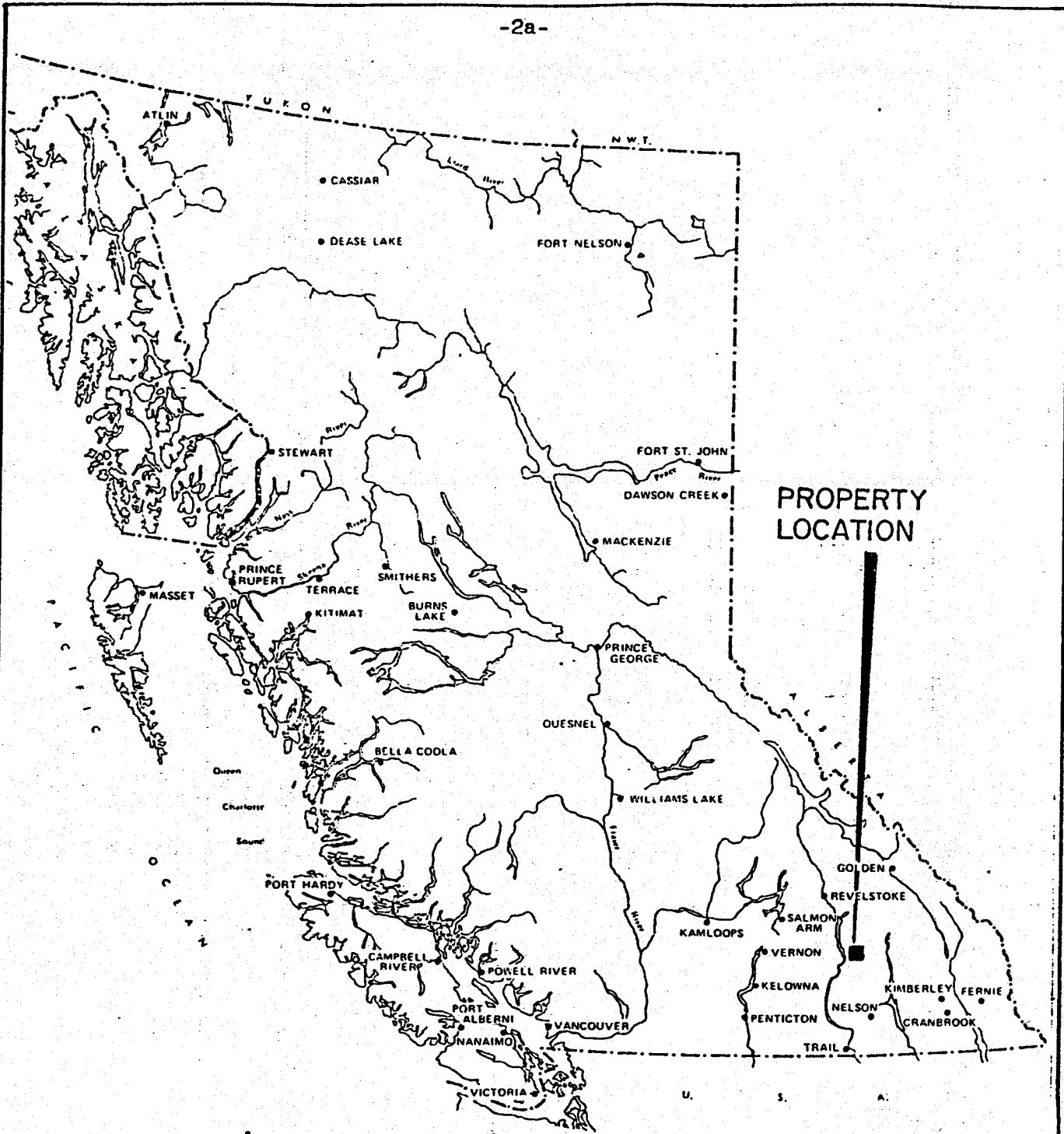
In September 1988 Woodcock visited the property to check the anomalies, check the road accessibility, do some orientation soil geochemistry and plan the next phase of the exploration. This led to a two-man crew returning to the property in late September 1988 to slash out eight of the flagged cross lines in preparation for a more sophisticated form of geophysics and to hand trench a coincident VLF-EM peak and silver-lead geochemical high. Because of a heavy early snowfall, the slashing was only completed on Lines 3 W and 4 W. During this phase of the field operation two 2-post claims were staked westward from the Kusp property to cover any possible fraction between the Kusp property and the Cominco claims.

LOCATION AND ACCESS

The Kusp property is at latitude 50° 08.5' N, longitude 117° 36.5' W, on Map Sheet 82K-4E. Summit Lake, which lies along the valley of Bonanza Creek, is just north of the property. Nakusp is 17 kilometers northwest of Summit Lake and a helicopter is based at Nakusp.

The claims extend from the bottom of the valley of Bonanza Creek southward up the steep slopes to the top of some very rugged mountains (Rugged Peak, Big Sister Mountain). Over a horizontal distance of 2.8 kilometers, elevations rise from 830 meters at Bonanza Creek to 2670 meters at the highest peaks. Slopes on the south side of the rugged mountains are less steep and are drained by McDonald Creek.

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PROPERTY
LOCATION



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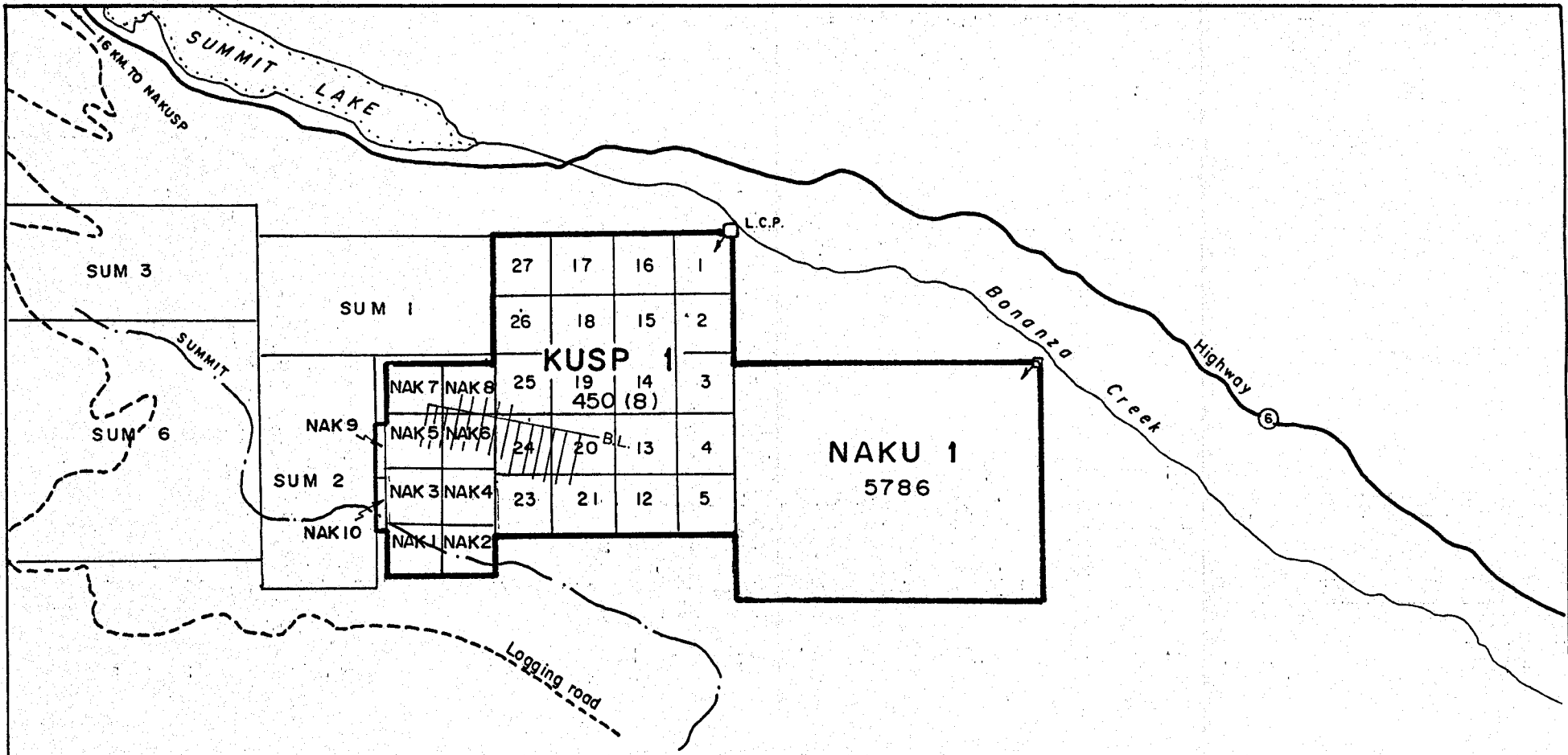
KUSP PROPERTY LOCATION MAP

0 100 200 400 KM.

J. R. WOODCOCK CONSULTANTS LTD.

APRIL 1987

FIGURE Nº 1



SUM CLAIMS
(June 1988)
COMINCO LTD.

ADASTRAL RESOURCES LTD.

**KUSP PROPERTY
CLAIM MAP**

N.T.S. 82K-4E

SLOCAN M.D., B.C.

0 1 2 3 KM.

J.R. WOODCOCK CONSULTANTS LTD.

FIGURE NO. 2

The very steep north-facing slopes have been subjected to a severe forest fire and almost complete burn. Subsequently a dense growth of brush and young evergreen trees has returned, making access up the steep slopes very difficult. The tops of the peaks, however, are above timber line.

Outcrops are abundant at the tops of the rugged peaks and in the heads of all of the cirques which drain northward through various small streams into Bonanza Creek. On the forest covered slopes, however, outcrops are mainly restricted to the creek beds and also in places on the steep interfluvial areas.

Logging roads have been placed in the area west of the Kusp claim group and these, along with fire access roads, extend to the ridge top which lies just south of the property. Although these logging roads are accessible with a two-wheeled vehicle throughout the summer months, the intervening area between the logging roads and the old drill sites and showings is quite steep and would entail some work for a road connection. In addition to the logging access roads, major highways and a railway lie along Bonanza Creek just north of the property.

CLAIMS AND OWNERSHIP

The Kusp property includes two 20-unit claims and ten 2-post claims. These claims, belonging to Adastral Resources Ltd., are held in the name of John R. Woodcock. The claims are in the Slocan Mining Division. The claim data is presented in Table I.

TABLE I

CLAIM DATA

| <u>Name</u> | <u>Tag. No.</u> | <u>Record No.</u> | <u>No. of Units</u> | <u>Record Date</u> |
|-------------|-----------------|-------------------|---------------------|--------------------|
| Kusp 1 | 12052 | 450 | 20 | August 9, 1977 |
| Nak 1 | 499023M | 5418 | 1 | July 31, 1987 |
| Nak 2 | 499024M | 5419 | 1 | July 31, 1987 |
| Nak 3 | 499025M | 5420 | 1 | July 31, 1987 |
| Nak 4 | 499026M | 5421 | 1 | July 31, 1987 |
| Nak 5 | 499027M | 5422 | 1 | July 31, 1987 |
| Nak 6 | 499028M | 5423 | 1 | July 31, 1987 |
| Nak 7 | 499029M | 5424 | 1 | July 31, 1987 |
| Nak 8 | 499030M | 5425 | 1 | July 31, 1987 |
| Nak 9 | 499033M | 5851 | 1 | Sept. 28, 1988 |
| Nak 10 | 499034M | 5852 | 1 | Sept. 28, 1988 |
| Naku 2 | 64989 | 5786 | 20 | July 29, 1988 |

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GENERAL GEOLOGY

The mountains south of Summit Lake owe their high and rugged topography to the resistant volcanic rocks which underlie this part of the Lardeau Map Sheet. Geological Survey maps (Hyndman, 1968 and Reid, 1976) show an area eight miles (13 km) long and up to two miles (3.2 km) wide underlain by the volcanic rocks that form the backbone of these rugged mountains. These geologists have assigned the volcanic rocks to the Slocan Group (Triassic to Lower Jurassic), which generally includes augite metabasalt and andesite flows and tuffs. Surrounding this volcanic group are some sedimentary rocks also included in the Slocan Group and presumably underlying the volcanic rocks. These include the grey to black phyllite, argillite, quartzite and minor tuffaceous sediments near the top. In order to get an elliptical outline to the volcanic area (terminating at both ends) the geologists have suggested a possible synclinal structure.

Woodcock, as a result of his mapping, has suggested that this is a basin of volcanic deposition and this volcanic pile has subsequently been thrust into a southerly dipping overturned anticline. Attitudes in the mapped area show a strike averaging about 100° azimuth and moderate to steep dips southwest. Drastic lateral facies changes occur in the coarse clastic and the pyroclastic units of this belt and some of the coarse clastic units disappear to the west where finer-grained equivalent units are exposed. The distribution of the rock units of the central belt including their interfingering and their drastic lateral facies changes suggest that these volcanic and sedimentary rocks were deposited in a basin or along the edge of a basin and that the basin extends westerly from the source area.

With his mapping, Woodcock has divided the sequence into seven units, most of which are a variety of pyroclastics but also include some coarse clastic sediments such as grits, greywacke and conglomerates. Most of the boulders and cobbles within the conglomerate are angular to sub angular.

One of the units within this group is a bleached white tuff which occurs adjacent to the mineralized tuffs along the main geochemical-geophysical anomaly. In the main part of the anomaly where the original drilling has been done this white tuff has abundant disseminated pyrite. It weathers to a white sticky clay in which most of the limonite has been leached out, leaving in places some yellow jarosite. This tuff stratigraphically overlies the carbonate-rich grey clastic which contains pyrite and traces of base metals and silver. Because it is on the overturned limb of the anticline the white tuff structurally underlies the carbonate-rich pyritic tuff.

Interpretation of graded bedding and of cross bedding found in various places shows that the structure is anticlinal and overturned and that the exposures of white tuff along the geophysical anomalies are actually on the overturned limb of the anticline.

Rock slides occur in a number of places. At the Discovery a hummocky topography, including a little closed basin has resulted from a rock slide. Similar features also occur along the white tuff horizon in several other places.

GEOPHYSICAL WORK

The VLF-EM results for the 1988 work were adjusted with a Fraser-filtered technique and the contoured results plotted to show an anomaly that extends across the map area for about 1200 meters, is open at both ends, with increasing strength to the west.

The coincidence of this VLF-EM anomaly with intermittent geochemical anomalies along its full strike length, the presence of pyritic altered rock in places along the zone and the lack of VLF-EM anomalies over the sediments to the north (no continuous graphite) indicate that the VLF-EM anomaly reflects a zone of sulphides.

GEOCHEMISTRY

The report of August 19, 1988 described the results of the geochemical soil survey and specifically the lead, silver, zinc, manganese, copper, and arsenic.

The highest part of the VLF-EM anomaly is on Line 7 W with the anomalous reading extending from 0 + 80 S to 0 + 40 S and with the peak between 1 + 00 S and 1 + 20 S. Soil samples were collected at the peak of this VLF-EM anomaly from the B-horizon at a depth of 30 cm. No broken rock was observed in these shallow pits and therefore depth of overburden could have been several meters. This steep slope is completely covered by vegetation consisting mainly of young balsam fir.

The results of this sampling and the previous adjacent sampling are presented in Table II.

| SOIL SAMPLE | | | | | | | | ROCK SAMPLE | | | | | | |
|-------------|------|-----|-----|------|-----|----|--|-------------|------|------|------|------|-----|----------|
| No. | Ag | Pb | Zn | Mn | Cu | Au | | No. | Ag | Pb | Zn | Mn | Cu | Au (ppb) |
| K 14 | 1.0 | 69 | 409 | 2463 | 403 | | | K/14 | 0.8 | 21 | 1290 | 1580 | 655 | |
| 20N | | | | | | | | | | | | | | |
| K013 | 8.9 | 336 | 306 | 698 | 33 | | | K113 | 1.6 | 70 | 254 | 963 | 119 | 36 |
| | | | | | | | | | | | | | | 20N |
| K 12 | 15.6 | 524 | 732 | 1099 | 124 | | | K112 | 1.2 | 140 | 341 | 315 | 100 | 21 |
| K 11 | 12 | 573 | 550 | 1323 | 70 | | | K111 | 2.0 | 293 | 276 | 398 | 120 | 34 |
| 10N | | | | | | | | K110 | 2.8 | 1076 | 709 | 1573 | 201 | 29 |
| K 10 | 10.1 | 465 | 506 | 979 | 56 | | | | | | | | | 10N |
| | | | | | | | | | | | | | | |
| 00 | | | | | | | | | | | | | | |
| K 9 | 16.8 | 770 | 407 | 1151 | 61 | | | K109 | 5.6 | 735 | 85 | 206 | 52 | 95 |
| K 8 | 17.6 | 635 | 586 | 2384 | 119 | | | K108 | 2.6 | 373 | 461 | 966 | 171 | 35 |
| K 7 | 28.8 | 330 | 612 | 1830 | 78 | | | K107 | 8.4 | 531 | 313 | 817 | 90 | 179 |
| 10S | | | | | | | | | | | | | | |
| K 6 | 27.7 | 415 | 692 | 2988 | 148 | | | K106 | 7.8 | 945 | 558 | 838 | 245 | 132 |
| K 5 | 49.2 | 364 | 778 | 3539 | 153 | | | K105 | 4.8 | 474 | 454 | 3135 | 278 | 113 |
| K 4 | 43.9 | 403 | 769 | 2838 | 127 | | | K104 | 5.0 | 244 | 435 | 961 | 171 | 80 |
| K 3 | 5.2 | 58 | 470 | 1414 | 127 | | | K103 | 14.8 | 248 | 170 | 689 | 79 | 144 |
| K 2 | 1.2 | 31 | 270 | 684 | 25 | | | K102 | 3.2 | 167 | 238 | 1889 | 75 | 37 |
| 20S | | | | | | | | | | | | | | |
| K 1 | 1.1 | 38 | 410 | 1210 | 72 | | | K101 | 1.1 | 33 | 255 | 916 | 31 | 6 |

Trenches along LSW with depths to bedrock

uphill



| |
|--|
| ADASTRAL RESOURCES LTD |
| KUSP PROPERTY |
| TRENCHES ALONG LSW ROCK & SOIL ANALYSES |
| SCALE 0 5 10 m |
| Nov, 1988 |

Fig 3

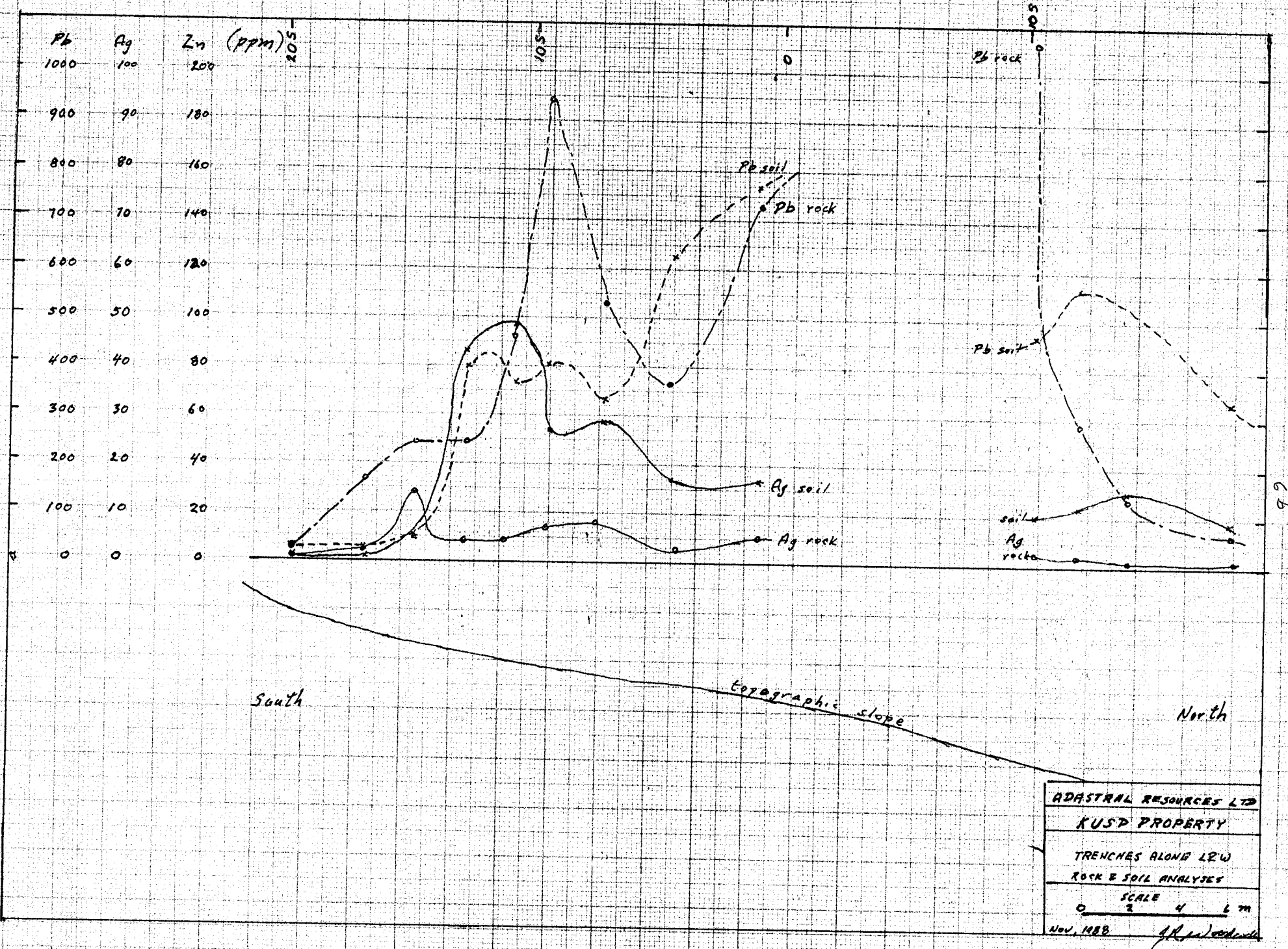


Fig 4

ADASTRAL RESOURCES LTD
 KUSD PROPERTY
 TRENCHES ALONG LRW
 ROCK & SOIL ANALYSES
 SCALE 1:4000
 0 2 4 6 m
 Nov. 1988

TABLE II

SAMPLING ON LINE 7 W

| <u>Sample No.</u> | <u>Location</u> | <u>Cu</u> | <u>Pb</u> | <u>Zn</u> | <u>Ag</u> | <u>Mn</u> |
|-------------------|-----------------|-----------|-----------|-----------|-----------|-----------|
| K 388 | 0 + 80 S | 261 | 43 | 112 | 2.2 | 97 |
| K 389 | 1 + 00 S | 16 | 16 | 80 | 2.4 | 156 |
| W 24 | 1 + 00 | 32 | 42 | 216 | 1.2 | 192 |
| W 23 | 1 + 07 S | 230 | 105 | 176 | 0.8 | 287 |
| W 22 | 1 + 13 S | 347 | 17 | 321 | 1.2 | 183 |
| W 21 | 1 + 20 S | 425 | 13 | 100 | 1.0 | 201 |
| K 390 | 1 + 20 S | 23 | 14 | 67 | 2.3 | 342 |
| K 391 | 1 + 40 S | 18 | 17 | 78 | 2.1 | 524 |

The sampling done by Woodcock was probably at a slightly greater depth than that done by the previous sampler and this may be reflected in some of the metal values in that the deeper sampling gives somewhat higher copper and zinc values and somewhat lower silver values. This might indicate that deeper sampling might enhance some of the base metal values over the VLF-EM anomaly.

In addition Woodcock also took a profile of samples at three localities on Lines 3 W, 2 W, and 2 W. The results of this sampling are given in Table III.

TABLE III

GEOCHEMICAL DEPTH PROFILES

| <u>Locality</u> | <u>Depth (cm)</u> | <u>Sample Numbers</u> | <u>Cu ppm</u> | <u>Pb ppm</u> | <u>Zn ppm</u> | <u>Ag ppm</u> | <u>Mn ppm</u> |
|-----------------|-------------------|-----------------------|---------------|---------------|---------------|---------------|---------------|
| L 3 W; 0 + 10 N | 45 | W 25 | 55 | 9 | 190 | 0.9 | 868 |
| | 30 | W 26 | 53 | 10 | 180 | 0.8 | 938 |
| | 12 | W 27 | 62 | 14 | 201 | 0.4 | 1204 |
| L 2 W; 0 + 18 N | 45 | W 28 | 67 | 451 | 262 | 6.0 | 619 |
| | 30 | W 29 | 86 | 564 | 335 | 6.8 | 736 |
| | 12 | W 30 | 56 | 358 | 236 | 2.9 | 625 |
| L 2 W; 0 + 10 S | 45 | W 31 | 197 | 284 | 585 | 20.0 | 2150 |
| | 30 | W 32 | 168 | 262 | 609 | 30.0 | 3364 |
| | 12 | W 33 | 168 | 299 | 586 | 45.0 | 2831 |

The results show that, for all practical purposes, there are no significant changes in results with depth of sampling between 12 cm and 45 cm.

In the small sampling pit placed by Woodcock at L 2 W, 0 + 10 S, highly altered bedrock was encountered in the bottom of the pit. This is sericitized rock with abundant limonite. In addition there is loose limonite on top of bedrock. Samples of these were also taken and analyzed as follows.

| Sample Number | Rock Type | Cu ppm | Pb ppm | Zn ppm | Ag ppm | Mn ppm |
|---------------|--------------------------|--------|--------|--------|--------|--------|
| W 34 R | limonite cemented debris | 273 | 265 | 913 | 8.2 | 1979 |
| W 35 R | altered white tuff | 114 | 396 | 410 | 5.6 | 948 |

In an attempt to get additional information on the anomaly a two-man crew hand trenched along Line 2 W in an attempt to reach bedrock. Figure 3 gives the results of this trenching along the line between 0 + 20 N and 0 + 20 S. The depths to bedrock are also indicated; between 10 N and 00 bedrock was not reached. Rock samples were taken of the altered limonitic bleached schist and samples of the soil B-horizon were taken at each sample site 30 cm above bedrock. Also a graph showing the profiles of the topography and the lead and silver both in rock and soil are given in Figure 4. These indicate a small peak especially with lead in rock and silver in soil at about 10 S but they also show an increase in metals, from both sides, toward a 10-meter length (0 + 00 to 0 + 10 S)) which was not uncovered.

CONCLUSIONS

The Kusp property is underlain by a sequence of volcanic rocks, mainly pyroclastics, tuffs, and tuffaceous sediments in addition to interlayering and interfingering sedimentary horizons. Mineralization occurs over a width of more than 30 meters within a highly altered and bleached white tuffaceous rock. Where exposed, this mineralization consists of disseminated pyrite and pyrite lenses along with galena, sphalerite, and silver. This appears to be an exhalative metalliferous horizon within the volcanics of the Slocan Group.

A geophysical-geochemical survey done in 1988 traced the metalliferous horizon for over 1200 meters, still open to the west. The metalliferous horizon is reflected by a continuous VLF-EM anomaly incorporating peak highs and having coincident anomalous geochemistry discontinuously spaced along it. Anomalous geochemical values include Cu, Pb, Zn, Ag, and Mn with considerable variations in metal ratios along the conductor. In places Cu and Mn will be very anomalous; in other places Pb and Ag will be very anomalous. These changes in strength of the geochemical anomalies do not correspond with changes

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in the strength of the VLF-EM anomaly. They could be due to variations in the metal content of the zone; however there is good indication that sampling depth, where the soils are quite deep, has a very pronounced effect on the magnitude of the base metal anomalies. In places of no geochemical reflection but with good VLF-EM response, the bedrock may be covered with talus above which would lie the soil.

The hand trenching has verified the presence of geochemically anomalous and highly altered schistose rocks along the zone.

RECOMMENDATIONS

1. Additional trenching by hand should be done on the anomalies, specifically on the unexposed part of the present trenching on Line 2 W and also on the peaks of the VLF-EM anomaly on Lines 3 W and 7 W.
2. Consideration should be given to completing a more sophisticated type of EM survey.
3. The VLF-EM and geochemical survey should be carried on westward to the end of the claim holdings.
4. Drill sites should be selected for shallow holes to test this highly weathered mineralized horizon and to establish metal trends so that a deeper hole can be spotted to test down dip for massive sulphide layers.

J. R. Woodcock, P. Eng.

JRW:me

JRW

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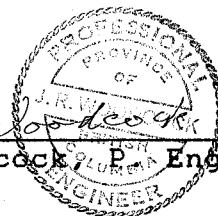
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J. R. Woodcock

J. R. Woodcock, P. Eng.

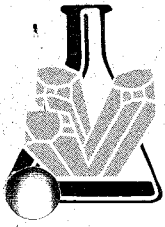


JRW:me

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APPENDIX I

ANALYTICAL RESULTS



MINERAL ENVIRONMENTS LABORATORIES LTD.

SPECIALISTS IN MINERAL ENVIRONMENTS
CHEMISTS • ASSAYERS • ANALYSTS • GEOCHEMISTS

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33 EAST IROQUOIS ROAD
P.O. BOX 867
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TELEPHONE: (705) 264-9996

Analytical Report

Company: J. R. WOODCOCK
Project:
Attention: J. R. WOODCOCK

File: B-1501
Date: SEPT. 15/88
Type: SOIL & ROCK

Date Samples Received : SEPT. 9/88
Samples Submitted by : J. R. WOODCOCK

Report on 13 SOILS, 2 ROCKS Geochem Samples
..... Assay Samples

Copies sent to:
1. J. R. WOODCOCK, VANCOUVER, B.C.
2.
3.

Samples: Sieved to mesh ...-80(SOIL)... Ground to mesh ...-100(ROCK)....
Prepared samples stored: X discarded:
rejects stored: discarded: X

Methods of analysis:
6 ELEMENT TRACE ICP

Remarks

COMPANY: J.R.WOODCOCK

PROJECT NO:

ATTENTION: J.R.WOODCOCK

MIN-EN LABS ICP REPORT

705 WEST 15TH ST., NORTH VANCOUVER, B.C. V7M 1T2

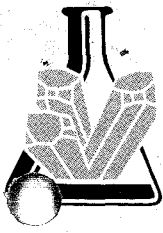
(604)980-5814 OR (604)988-4524 * TYPE SOIL GEOCHEM *

(ACT:FIRE) PAGE 1 OF 1

FILE NO: 8-1501/P1

DATE:SEPTEMBER 13, 1988

| (VALUES IN PPM) | AG | CO | CU | MN | PB | ZN |
|------------------|------|----|-----|------|-----|-----|
| W88-21S | 1.6 | 6 | 32 | 192 | 13 | 100 |
| W88-22S | 1.2 | 6 | 230 | 289 | 17 | 331 |
| W88-23S | .8 | 5 | 347 | 183 | 105 | 176 |
| W88-24S | 1.2 | 6 | 425 | 201 | 42 | 216 |
| W88-25S40 | .9 | 15 | 55 | 868 | 9 | 190 |
| W88-26S | .8 | 14 | 53 | 938 | 10 | 180 |
| W88-27S | .4 | 17 | 62 | 1204 | 14 | 201 |
| W88-28S40M | 6.0 | 6 | 67 | 619 | 451 | 262 |
| W88-29S40M | 6.8 | 8 | 86 | 736 | 564 | 335 |
| W88-30S40M | 2.9 | 4 | 56 | 625 | 358 | 236 |
| W88-31S40M | 20.0 | 24 | 197 | 2150 | 284 | 585 |
| W88-32S40M | 30.0 | 23 | 168 | 3364 | 262 | 609 |
| W88-33S | 45.0 | 21 | 168 | 2831 | 299 | 586 |
| W88-34R | 8.2 | 12 | 273 | 1979 | 265 | 913 |
| W88-35R | 5.6 | 13 | 114 | 948 | 396 | 410 |



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Analytical Report

Company: J.R. WOODCOCK CONSULTANTS
Project: KUSF
Attention: J.R. WOODCOCK

File: 8-1731
Date: OCT. 11/88
Type: ROCK & SOIL

Date Samples Received : OCT. 6/88
Samples Submitted by : J.R. WOODCOCK

Report on 14 ROCKS, 27 SOILS..... Geochem Samples
.....
..... Assay Samples
.....

Copies sent to:

1. J.R. WOODCOCK CONSULTANTS, VANCOUVER, B.C.
- 2.
- 3.

Samples: Sieved to mesh -80 (SOIL).. Ground to mesh ... -150 (ROCK)...

Prepared samples stored: X discarded:
rejects stored: discarded: X

Methods of analysis:

AU-FIRE GEOCHEM
6 ELEMENT TRACE ICP

Remarks

.....
.....
.....
.....
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.....
.....
.....
.....
.....

COMPANY: J.R.WOODCOCK

MIN-EN LABS ICP REPORT

(ACT:F31) PAGE 1 OF 1

PROJECT NO: KUSP

705WEST 15TH ST., NORTH VANCOUVER, B.C. V7M 1T2

FILE NO: 8-1731/P1

ATTENTION: J.R.WOODCOCK

(604)980-5814 OR (604)988-4524

* TYPE SOIL GEOCHEM *

DATE:OCTOBER 10, 1988

| (VALUES IN PPM) | AG | CU | MN | PB | SB | ZN |
|------------------|------|-----|------|-----|----|-----|
| K88501 | 1.1 | 72 | 1210 | 38 | 12 | 401 |
| K88502 | 1.2 | 25 | 684 | 31 | 10 | 270 |
| K88503 | 5.2 | 127 | 1414 | 58 | 10 | 470 |
| K88504 | 43.9 | 127 | 2838 | 403 | 28 | 769 |
| K88505 | 49.2 | 153 | 3539 | 364 | 33 | 778 |
| K88506 | 27.7 | 148 | 2988 | 415 | 22 | 692 |
| K88507 | 28.8 | 78 | 1830 | 330 | 19 | 612 |
| K88508 | 17.6 | 119 | 2384 | 635 | 19 | 586 |
| K88509 | 16.8 | 61 | 1151 | 770 | 14 | 407 |
| K88510 | 10.1 | 56 | 979 | 465 | 4 | 506 |
| K88511 | 12.0 | 70 | 1323 | 573 | 11 | 550 |
| K88512 | 15.6 | 124 | 1099 | 524 | 14 | 732 |
| K88513 | 8.9 | 33 | 698 | 336 | 2 | 306 |
| K88514 | 1.0 | 403 | 2463 | 69 | 8 | 409 |
| N88401 | .9 | 27 | 1344 | 44 | 2 | 182 |
| N88402 | 1.3 | 35 | 1200 | 39 | 2 | 198 |
| N88403 | 3.0 | 63 | 1385 | 47 | 1 | 215 |
| N88404 | 1.8 | 15 | 740 | 31 | 2 | 209 |
| N88405 | 1.2 | 1 | 447 | 29 | 4 | 212 |
| N88406 | 1.0 | 3 | 284 | 32 | 4 | 162 |
| N88407 | .8 | 1 | 2001 | 27 | 1 | 128 |
| N88408 | 2.0 | 1 | 162 | 23 | 2 | 83 |
| N88409 | 1.8 | 4 | 198 | 23 | 1 | 69 |
| N88410 | 1.4 | 5 | 334 | 31 | 3 | 128 |
| N88411 | .8 | 4 | 316 | 24 | 1 | 144 |
| N88412 | .9 | 1 | 644 | 23 | 1 | 72 |
| N88413 | 1.3 | 2 | 320 | 24 | 1 | 83 |

COMPANY: J.R.WOODCOCK CONSULTANTS

MIN-EN LABS ICP REPORT

(ACT:FIRE) PAGE 1 OF 1

PROJECT NO: KUSP

705 WEST 15TH ST., NORTH VANCOUVER, B.C. V7M 1T2

FILE NO: 8-1731R

ATTENTION: J.R.WOODCOCK

(604)980-5814 OR (604)988-4524

* TYPE ROCK GEOCHEM *

DATE: OCTOBER 11, 1988

| (VALUES IN PPM) | AG | CU | MN | PB | SB | ZN | AU-PPB |
|-----------------|------|-----|------|------|----|------|--------|
| K88R101 | 1.1 | 31 | 916 | 33 | 7 | 255 | 6 |
| K88R102 | 3.2 | 75 | 1889 | 167 | 10 | 238 | 37 |
| K88R103 | 14.8 | 79 | 689 | 248 | 14 | 170 | 144 |
| K88R104 | 5.0 | 171 | 961 | 244 | 13 | 435 | 80 |
| K88R105 | 4.8 | 278 | 3135 | 474 | 16 | 454 | 113 |
| K88R106 | 7.8 | 245 | 838 | 945 | 21 | 558 | 132 |
| K88R107 | 8.4 | 90 | 817 | 531 | 16 | 313 | 179 |
| K88R108 | 2.6 | 171 | 966 | 373 | 10 | 461 | 35 |
| K88R109 | 5.6 | 52 | 206 | 735 | 12 | 85 | 95 |
| K88R110 | 2.8 | 201 | 1573 | 1076 | 10 | 709 | 29 |
| K88R111 | 2.0 | 120 | 398 | 293 | 8 | 276 | 34 |
| K88R112 | 1.2 | 100 | 315 | 140 | 9 | 341 | 21 |
| K88R113 | 1.6 | 119 | 963 | 70 | 8 | 254 | 36 |
| K88R114 | .8 | 655 | 1580 | 21 | 9 | 1290 | 40 |

KUSP PROPERTY
STATEMENT OF COSTS

WAGES AND FEES

J. R. Woodcock:

| | | |
|----------------------|------------------------|-------------|
| Sept. 5-7/88 - | 2 1/4 days | |
| Sept. 8-Oct. 11/88 - | 2 3/4 days | |
| Jan. 1-30/89 - | <u>2/3 days</u> | |
| Total | 5 2/3 days @ \$400/day | \$ 2,267.00 |

N. Wychopen:

| | | |
|----------------------|------------------------|----------|
| Sept. 16-Oct. 2/88 - | 14 days @ \$187.50/day | 2,625.00 |
|----------------------|------------------------|----------|

M. Kilby:

| | | |
|----------------------|------------------------|----------|
| Sept. 19-Oct. 2/88 - | 14 days @ \$187.50/day | 2,625.00 |
|----------------------|------------------------|----------|

M. Earnshaw (secretarial work re report):

| | | |
|-----------------|--------------------------|--------------|
| Jan. 16-30/89 - | 3 3/4 hrs. @ \$18.00/hr. | <u>67.50</u> |
|-----------------|--------------------------|--------------|

| | | |
|--------------------------|--|-------------|
| Sub Total - Wages & Fees | | \$ 7,584.50 |
|--------------------------|--|-------------|

| | | |
|------------|--|----------|
| HELICOPTER | | 1,875.20 |
|------------|--|----------|

| | | |
|-----------------------------|--|----------|
| TRAVEL, FOOD, ACCOMMODATION | | 1,661.16 |
|-----------------------------|--|----------|

| | | |
|----------------|--|--------|
| TRANSPORTATION | | 853.57 |
|----------------|--|--------|

| | | |
|----------|--|--------|
| ANALYSES | | 480.00 |
|----------|--|--------|

| | | |
|------------------|--|---------------|
| EQUIPMENT RENTAL | | <u>335.50</u> |
|------------------|--|---------------|

| | | |
|-----------|--|-------------|
| Sub Total | | \$12,789.93 |
|-----------|--|-------------|

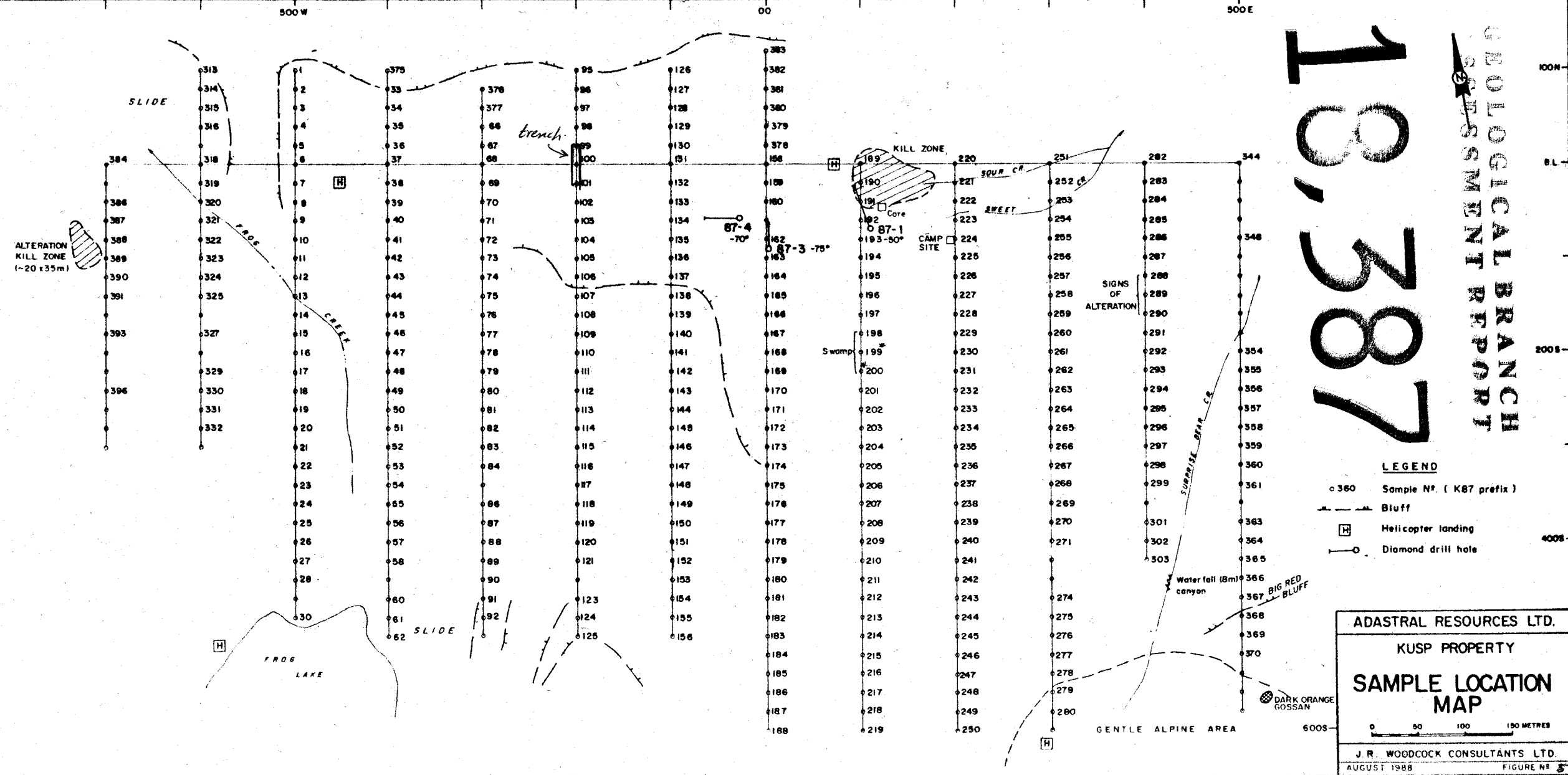
| | | |
|--|--|--------|
| Remainder of application of Aug. 26/88 | | 129.15 |
|--|--|--------|

| | | |
|-------|--|----------------------|
| Total | | \$12,919.08 ===== |
|-------|--|----------------------|



18,387

GEOLOGICAL BRANCH
 SUBSISTMENT REPORT



- LEGEND**
- 360 Sample N°. (K87 prefix)
 - Bluff
 - [H] Helicopter landing
 - Diamond drill hole

ADASTRAL RESOURCES LTD.
 KUSP PROPERTY
SAMPLE LOCATION MAP

0 50 100 150 METRES

J. R. WOODCOCK CONSULTANTS LTD.
 AUGUST 1988

FIGURE N° 5