

NOV 20 1997

Gold Commissioner's Office  
VANCOUVER, B.C.

**Report of 1997 Exploration  
on the  
Kingpin and Kingpin Extension Mineral Claims**

KAM 97-0300509-710

Clinton/ Cariboo Mining Division

NTS 92P-15E / 93A-2E

Lat. 51° 59' Long. 120° 37'

Owned and operated by  
Herb Wahl

Prepared by:

H. Wahl, P.Eng. B.C.  
RR 4, S-12, C-4,  
Gibsons, B.C. V0N 1V0  
November, 1997

GEOLOGICAL SURVEY BRANCH  
ASSASSINATED

25,233

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## **SUMMARY**

The Kingpin Mineral Claims totalling 36 units (900 ha./ 2223 ac.) are located within the Clinton/Cariboo Mining Divisions some 75 km east of 100 Mile House, B.C. The property is sited on industrial logging lands within the Quesnel Trough volcanic subdivision of the Intermontane Belt.

This is the third report of work on the claims, and was occasioned by a new outcrop discovery of leached, oxidized gossan material uncovered by recent Ministry of Forests road building activity. The new zone is exposed for some 350 meters in the ditch of Burt Creek Road, where bedrock comes within 2 meters of surface.

Samples of goethite-limonite boxworks material have returned values to 713 Mo, 1125 Cu, 465 Pb, 2039 Zn, 13.9 Ag, 120.3 Cd, and 1450 Au (ppb). The zone trends northerly within silicified, pyritized, and skarn-altered argillites. Ultimate dimensions could exceed 1.5 km in strike, with a width of 3-400 meters. The new discovery is one of three targets (I.P. + geochem) lying within a northerly trending, metal anomalous, calcic-tuff argillite belt some 5 km long x 1 km wide. The belt is sandwiched between the 'TK' stock on the west which has contributed the skarn alteration effects and mafic volcanics on the east.

Expanded gridwork and trenching are recommended.

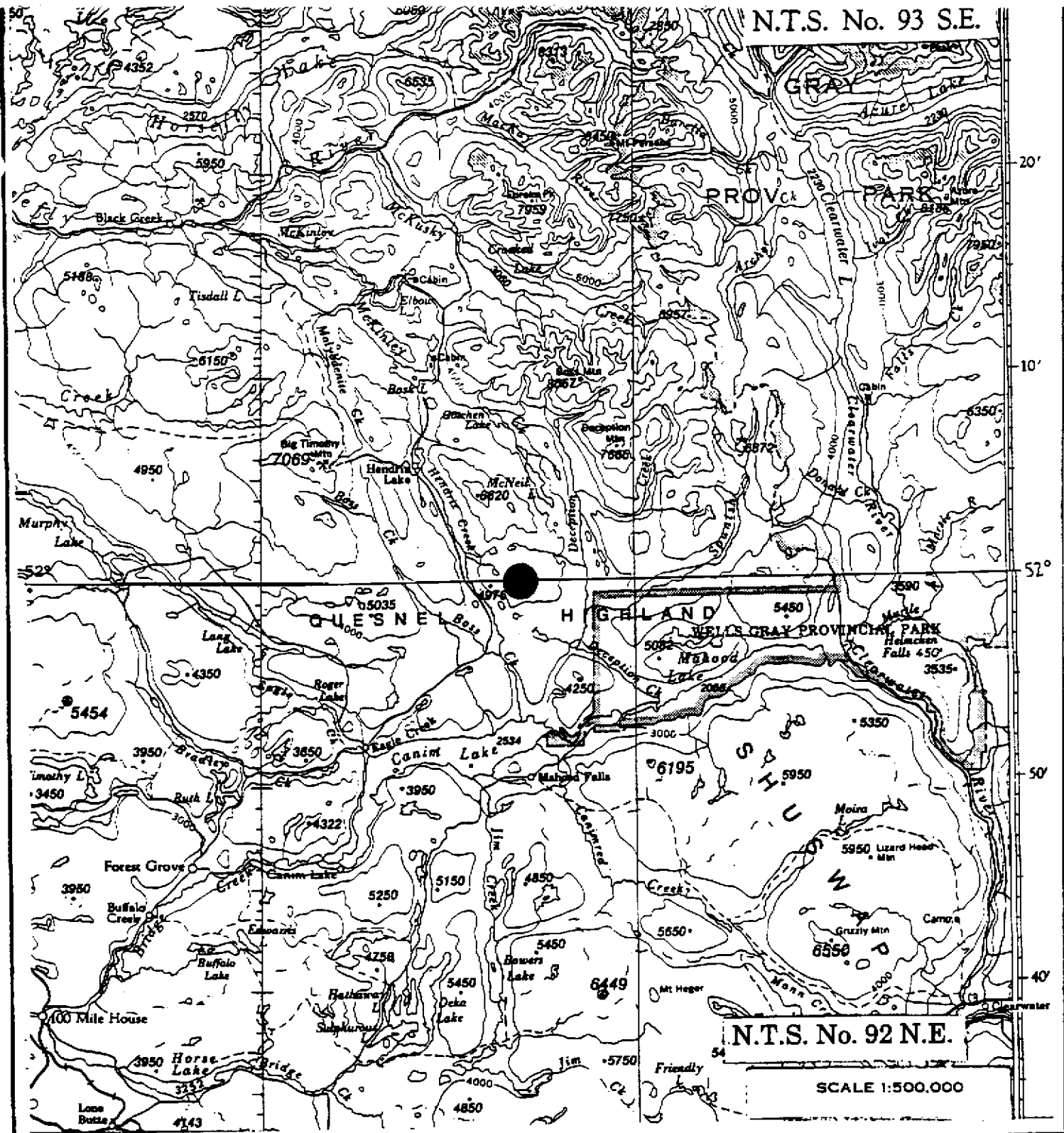
Costs of current work are \$15,460.15 with total costs to date being \$41,720.78, exclusive of fees.

## **INTRODUCTION**

The report documents on-going work on the Kingpin mineral claims covering the periods 27-30 June 1997, 01-08 September 1997, and 08-13 October 1997.

Expanded work was occasioned by a brand new, sheared, oxidized gossan zone uncovered by recent Ministry of Forests road-building activity (Burt Creek Road).

The gossan zone is exposed for 350 meters along the west side of the road where it traverses the Kingpin No. 6 and 9 claims. In addition, the M.O. F. dug two test pits 15 meters west of the ditch to 4 meter depth, which failed to reach bedrock. Material encountered was all orangey-red gossan soil containing some larger pieces of gossan boxworks. Bedrock of silicified heavily pyritized argillites was located 15 meters east of the road and a borrow pit some 20 X 80 meters wide was established here.



**FIG. 1 KINGPIN CLAIMS  
GENERAL LOCATION MAP**

Details of previous work can be found in references (1) and (2).

## **WORK PERFORMED**

27-30 June: Examination and preliminary sampling of new road zone exposure.

Stake Kingpin 11-17

1 rock sample

4 soil samples

4 silt samples

01-08 September: Line cutting, soil sampling, and more detailed rock sampling

970 meters line cutting

39 soil samples

19 rock samples

08-13 October Stake Kingpin 17-36 claim and soil sample location lines.

7 ea rock samples

7 ea silt samples

76 soil samples

5 km geology, outcrop checks

### Project Totals:

970 meters line cutting

119 soil samples

11 silt samples

27 rock samples

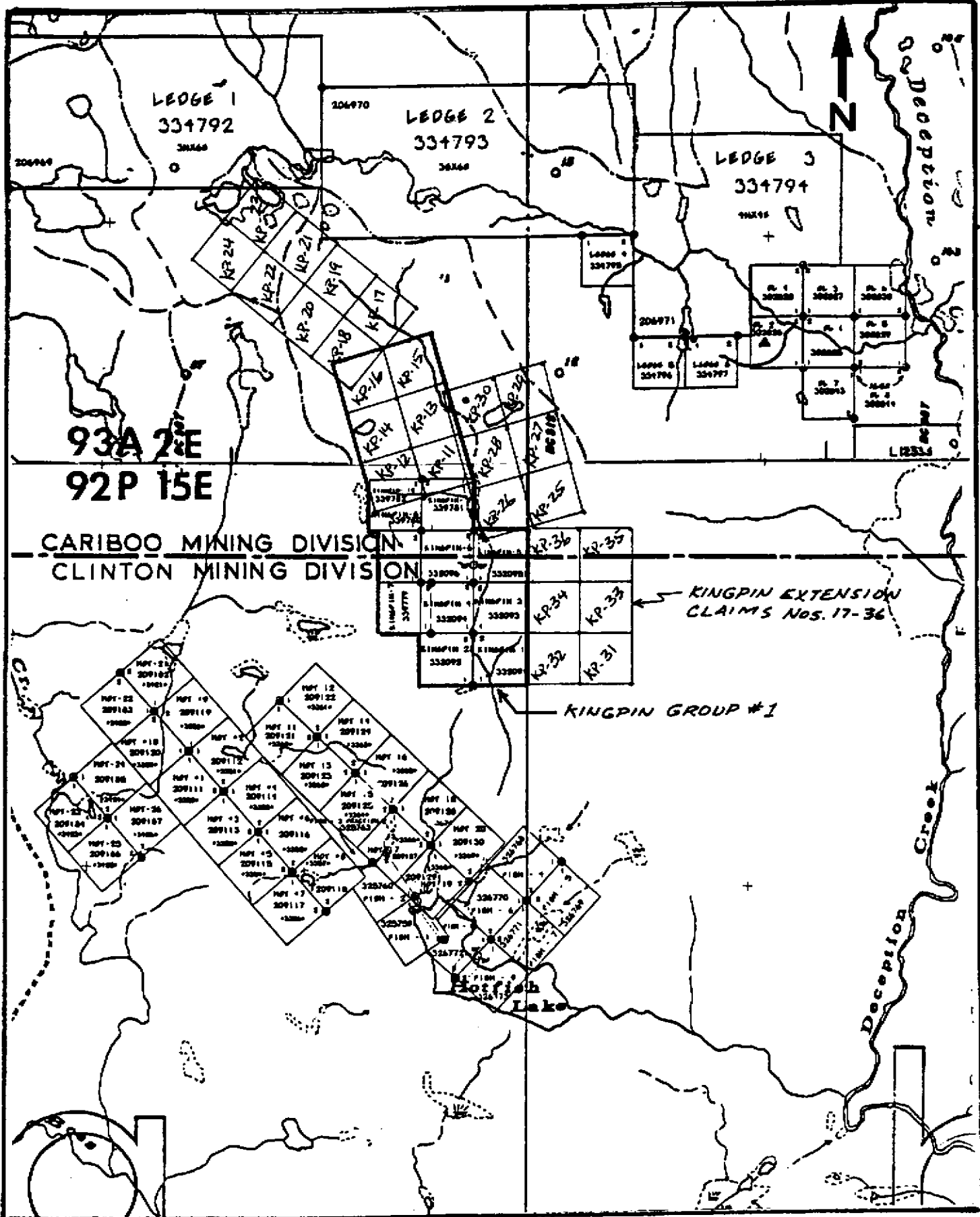
5 km. geology

## **LOCATION AND ACCESS (FIGS. 1& 2)**

The property is located 75 km east of 100 Mile House, B.C., or 20 km east of Eagle Creek. Access is via industrial logging roads, being east from Eagle Creek on the 6000 Rd. to the 7000 Rd., then 2 km east to the Burt Creek Road (new) then 4-5 kilometers easterly to the approximate center of the property.

Specific location details are:

NTS 92P - 15E  
Clinton/ Cariboo Mining Division  
Latitude 51° degrees 59'  
Longitude 120° degrees 37'



**FIG. 2 PROPERTY LOCATION MAP  
KINGPIN & KINGPIN EXTENSION CLAIMS  
SCALE 1: 50,000**

The claims are situated within the drainage basin of Art Creek. Current land use is zoned industrial logging, with active operations underway.

**PROPERTY**

The property consists of 36 2-post mineral claims as follows:

<u>Claims(s)</u>	<u>Tag/No.</u>	<u>Record Date/ Date Staked</u>	<u>Record Nos.</u>
Kingpin-1	659852M	18 Oct. 1994	332091
Kingpin-2	659853M	18 Oct. 1994	332092
Kingpin-3	659854M	18 Oct. 1994	332093
Kingpin-4	659855M	18 Oct. 1994	332094
Kingpin-5	614592M	18 Oct. 1994	332095
Kingpin-6	614593M	18 Oct. 1994	332096
Kingpin-7	655834M	02 Sept. 1995	339779
Kingpin-8	655835M	02 Sept. 1995	339780
Kingpin-9	655836M	02 Sept. 1995	339781
Kingpin-10	655837M	02 Sept. 1995	339782
Kingpin-11	660997	04 July 1997	357204
Kingpin-12	660998	04 July 1997	357205
Kingpin-13	660999	04 July 1997	357206
Kingpin-14	661000	04 July 1997	357207
Kingpin-15	640608	04 July 1997	357208
Kingpin-16	640609	04 July 1997	357209
<b>Kingpin Extension</b>			
Kingpin-17	640610	21 October 1997	359802
Kingpin-18	640611	21 October 1997	359803
Kingpin-19	640612	21 October 1997	359804
Kingpin-20	640613	21 October 1997	359805
Kingpin-21	640614	21 October 1997	359806
Kingpin-22	640615	21 October 1997	359807
Kingpin-23	640616	21 October 1997	359808
Kingpin-24	640617	21 October 1997	359809
Kingpin-25	640618	21 October 1997	359810
Kingpin-26	640619	21 October 1997	359811
Kingpin-27	640620	21 October 1997	359812
Kingpin-28	640621	21 October 1997	359813
Kingpin-29	640622	21 October 1997	359814

Kingpin-30	640623	21 October 1997	359815
Kingpin-31	640624	21 October 1997	359816
Kingpin-32	640625	21 October 1997	359817
Kingpin-33	640626	21 October 1997	359818
Kingpin-34	640627	21 October 1997	359819
Kingpin-35	670146	21 October 1997	359820
Kingpin-32	670147	21 October 1997	359821

The above are all staked in accordance with current provincial mining regulations. The total area claimed amounts to some 900 ha. (2223 acres).

The location line for Kingpin 31-36 intended as a 360° Azimuth, deviated some 12° westerly: this was apparently caused by a 5000  $\delta$  magnetic high.

An annual assessment expenditure of \$100/ claim is required during the first 3 years of tenure, increasing to \$200/ claim/ year thereafter.

## **TERRAIN/TOPOGRAPHY**

The property lies at elevations of 39-4500 feet ASL, spanning the drainage basin of Art Creek. Terrain west of the creek is flattish to gently sloping, with little outcrop, while ground to the east consists of rocky hummocks with interspersed swampy areas, and a more open timber cover. The West side of Art Creek is underlain by argillite strata which are more recessive weathering as opposed to the harder, more resistant mafic volcanics to the east.

## **GEOLOGY (FIG. 3, 4, Ref. 2)**

The Kingpin Claims lie within the Quesnel Trough volcanic-sedimentary belt of Triassic-Jurassic age, a subdivision of the Intermontane Belt.

Fieldwork over the past several years including current work has outlined the following geologic scenario.

An argillite/ mafic volcanic sequence has been intruded by a later stock ('TK' stock). Whether these strata were folded prior to intrusion is not known, however dips are vertical to steep near the contact, flattening-out towards the east.



Regional aeromagnetics suggest a southeasterly plunging anticlinal structure, cored by the biotite, hornblende quartz monzonite stock.

### **Argillite Unit (Fig. 3)**

The argillite unit (No. 4/Fig. 3) is the primary rock sequence of interest on the property. It forms a zone about 1 km in width being sandwiched between the overlying (?) mafic volcanic unit on the east, and the 'TK' stock on the west. New exposure in the M.O.F. borrow pit show the beds as steeply to vertically dipping close to the intrusive contact, with flatter dips towards the mafic volcanic contact.

Given the extensive mantle of glacial drift, the overall nature of the argillite unit is unknown. Scattered observations to date indicate the following. Exposures near the east side show dark and light colored beds (grey tones) with drag folded interbeds to ½ meter of cherty siliceous material (chemical sediment). Black colored beds are also present, but are not graphitic. Lighter colored banding is also present due to quartz carbonate layers. The beds overall carry abundant iron sulphides of pyrite and pyrrhotite, approaching near massive concentrations at some locales. Proximity to the 'TK' stock shows an increase in thermal alteration with the development of strong silicification and pyritization, and the conversion of quartz-carbonate layers to garnet, epidote, actinolite, calcsilicate skarn.

The new road cut zone is essentially a heavily sheared sulphide-rich zone developed in argillites proximal to the 'TK' stock. While most of the material at the M.O.F. test pit sites was gossan soil, samples KSX-1R to 3R (Appendix 1) were all examples of strong skarn alteration. Within the borrow pit, the argillites are intensely silicified and fractured, with 10-30% Po-py content. Thus, the road appears to follow a contact between strong (borrow pit) and intense (road ditch) sulphide mineralization.

In the borrow pit, weathering effects extend to 5-7 m below surface (punky, soft rock) while oxidized shears carry no fresh sulphides, and extend below the pit floor (10 m).

## **GEOCHEMISTRY/ SAMPLING**

Standard procedures were employed in collecting both soil and silt samples, i.e. intrenching tool, kraft bags. Average sample depth was 20 cm. The collected samples

were shipped to Acme Analytical Laboratories for analysis. Details are:

Kingpin 6/9 Area (Discovery Zone) (Fig. 3,4)

The sheared gossan zone is exposed for some 350 meters in the road ditch (west side) of the new M.O. F. road. An apparent bedrock roll brings this feature within 2 m. of surface. Overburden is a dark grey, clayey, stony glacial drift. Samples of gossan soil at random intervals returned variable results with maximums of 738 Cu, 315 Zn, 2.5 Ag, 6.8 Cd, (ppm) and 24 ppb Au.

Silts from seepages crossing the zone and probable extensions, contain low anomalous values for Zn to 422 ppm. Soil sample results for new lines 7.5 and 8.5 N, plus base line extension returned indifferent results. High silver/ cadmium results from the north end of the grid (Ref. 2) were closed off by the current sampling. Low silver values at the west end of L8.5N appear to correlate with the covered extension of the new gossan zone.

Kingpin Extension Claims (KP-17 to 36) (Fig. 3)

Soil samples were collected at measured intervals of 50 and/or 100 m. at stations marked on nearby tree blazes. All outcrops encountered were checked for rock type and mineralization.

Line KPA (2 km)

Results are generally low. Anomalous sites are:

800 NW	254 Cu, 3.1 Ag, 6.3 Cd
400 NW	141 Zn, 4.8 Cd
350 NW	127 Zn, 7.5 Cd
300 NW	220 Zn, 4.3 Cd

Due to good soil development west of Art Creek, most of the collected samples were B horizon material. A silt sample @ 1446 NW returned negligible values.

Line KPB (1.5 km)

Results again, are generally low. Outcrops of mafic volcanics are relatively abundant, overburden is thinner and the soil profile poorly developed. Most samples were drift or organic muck due to numerous swampy areas.

Noteworthy results are:

110 NW      163 Zn, 10.2 Cd

One silt sample @ 915N returned negligible values.

#### Line KPC

*Outcrop is abundant and soil cover poorly developed. Noteworthy results are:*

1150 N      1.9 Ag

800 N      2.0 Ag

400 N      2.3 Ag

100 N      175 Cu, 2.1 Ag, 10 Cd

Two silt samples at 200 N and 300N returned anomalous values for Cu (234, 260 ppm) plus anomalous values for Ag (2.7,3.3 ppm). The anomalous seep trends north-westerly and may mark the eastern argillite/volcanic contact. Some 700 meters northwest of this site (Ref 2, Fig. 7) a previous silt returned 798 Cu close to the argillite volcanic contact.

#### **MINERALIZATION (Fig. 3,4)**

Rock samples collected from the gossan zone and borrow pit are tabulated in Fig. 4, and described in Appendices 1 and 2.

*A preliminary evaluation suggests that strata bound mineralization of py-po-cu-zn-ag-cd has been sheared and thermally metamorphosed by intrusions of the 'TK' stock, with the addition of skarn alteration, quartz veining, and Pb-Au values. Intense oxidization extends to depths of plus 4 meters, and it is assumed that the limonite-goethite-boxworks chunks now lying on the back-fill surface of the M.O. F. test pits came from depth.*

The best values from 4 individual samples of this material are:

713 Mo, 1125 Cu, 465 Pb, 2039 Zn, 13.9 Ag, 120.3 Cd, and 1450 Au (ppb)

*Leaching effects are evident, and there is a good chance to locate multi-metal ore grade values at depth.*

Grid information to date, which is incomplete in the discovery area, suggests a 1.5 km. long zone (open at both ends) based upon Cd-Ag soil anomalies. A zone width of 400 meters is possible, lying between the road and the intrusive contact.

## CONCLUSIONS:

A fortuitous discovery of a multi-metal bearing gossan has been located on the Kingpin claim group by recent M.O.F. road building. The discovery outcrop is 350 meters long and open, and situated within 3-400 meters of an intrusive contact, which has thermally metamorphosed (skarn) metal-anomalous calcic-tuff-argillite stratigraphy. The zone of sulphide-rich stratigraphy bounds the 'TK' stock on the east, with a strike length of some 5 km. Two other targets are present on the claims being a strong soil geochem anomaly (850 X 200 m.) with values to 12 Ag, 1693 Cu, and 71.4 Cd., and a I.P. anomalous zone (+30 mv) 500 m x 200 m and open.

Preliminary soil sampling on the Kingpin extension claims did not locate any soil values of pressing interest, however this work was not comprehensive. Geological work was of value in firming the lithologic picture in this extensively covered area.

## RECOMMENDATIONS

Expanded grid work (line cutting, geochem, IP. Survey) in the Kingpin 6-8-9-10 area is required to define the extent of mineralization identified to date. The results of this work should be evaluated by trenching and drilling.

Prepared by

A handwritten signature in black ink, appearing to read 'H. Wahl', with a long horizontal flourish extending to the right.

Herb Wahl, P.Eng. B.C.

## PERSONNEL EMPLOYED AND STATEMENT OF COSTS

H. J. Wahl, P.Eng. B.C.  
RR4, S12, C-4,  
Gibsons, B.C. VON IVO  
Field work, supervision, and reporting

Michael W. Unger, Environmental Technologist,  
4501 West 8<sup>th</sup> Ave.,  
Vancouver, B.C. V6R 2A4  
Field Assistant, surveying and soil sampling

### Period: 27-30 June 1997

H. Wahl, 3 days @ \$500/day, geology and sampling	\$1500.00
Travel expense incl. road meals	237.29
Field Supplies	119.79
Field Vehicle 1996 Dodge 4X4, Lic. No. 4086PP, 3 days @ \$110./day	330.00
Acme 97-3362	135.52
Freight on samples	<u>5.08</u>
<b>Sub Total</b>	<b><u>\$2,327.68</u></b>

### Period 01-08 September 1997

H. Wahl, 8 days @\$500/day, field work	\$4000.00
Travel Expense	166.68
Accommodation – Rainbow Resort	368.00
Field Supplies	401.75
Freight, postage, permits	13.42
Maps, prints, xerox	22.91
Field Vehicle 8 days @ \$110/day 1996 Dodge 4X4, Assays, Acme 97-5256,5257	880.00
	<u>663.98</u>
<b>Sub Total</b>	<b><u>\$6,516.74</u></b>

Period 08-13 October 1997

H. Wahl, 6 days @ \$500/day. Field Work	\$3000.00
H. wahl, 4 days reporting @300/day	1500.00
M. Unger, contract, 6 days survey @\$200/day plus expenses	1000.00
Survey work and soil sampling	
Travel Expense	194.61
Field Supplies	376.52
Accommodation, Rainbow Resort	368.00
Maps, prints, xerox	36.10
Freight, postage, fees	27.74
Field Vehicle, 1996 Dodge 4X4 @ \$110/day, 6 days	660.00
Assays, Acme 97-6131,32,& 33	870.55
Report preparation (prints, maps, xerox)	<u>\$300.00</u>
<b>Sub Total</b>	<b><u>\$8,333.52</u></b>
<b>Grand Total</b>	<b><u>\$17,177.94</u></b>

Recapitulation

Total Program Costs	\$17,177.94
Less 10% for ground acquisition	<u>1,717.79</u>
Net Applicable to Assessment Work	<u>\$15,460.15</u>

Certified True and Correct



H. Wahl, P.Eng. B.C.

## REFERENCES

- (1) H. Wahl, P.Eng. BC , Report of Preliminary Exploration on the Kingpin Mineral Claims, September 1995
- (2) H. Wahl, P.Eng. B.C., Report of Follow-up Grid Work on the Kingpin Mineral Claims, December 1996.

## APPENDIX – 1

### Kingpin-Rock Sample Description List

01-08 September 1997

- KO2S-1R Grab, chloritic gouge ++ pyrite. Small fragment of quartz and qtz. carbonate has clots and disseminations of silvery py. Possible trace dissm: ZNS
- KO2S-2R Grabs, limonitic, rusty gouge. Total Feox.
- KO2S-3R Oxidized shear zone, punky FeOx. Vestige shearing strikes 348° dip 55° E
- KO2S-4R Oxidized rock, blue green color on fresh surface. Very fine grained crystalline qtz. plus 15% fine dissem. Py. Original carbonate may be leached out.
- KO2S-5R Rusty zone, from ditch. Pale grey qtz-carb rock, 1-5% dissm. Py, 1-2% dissm ZnS.
- KO2S-612 Rusty gouge. Odd harder fragment is quartz vein material with 10-15% very fine dissem. zns & py.
- KO25-7R Argillite, highly silic. 15% plus py, 1-2% ZnS, 0.5% cpy.
- KO2S-8R Milky and grey quartz vein material, coarse clots py, some assoc. with actinolite.
- KO2S-9R Rusty "clinkers". Total limonite –goethite materials, porous, vuggy.

- KO2S-10R Back-fill, top surface M.O.F. test pit. Orange-brown gossan material, odd harder piece is "clinker" similar to 9 R.
- KO2S-11R Sheared, bleached, heavily oxidized Rx. Abundant brown and red oxides of Zns?? As disseminations and streaks conformable with foliation.
- KO5S-1R Intensely silicified argillite. Possible abundant dissem. To heavily dissem ZNS? (darker brown color)
- KO5S-2R Large boulder, 0.75m, buff colored, prominent orangey-yellow stain calamine sheeted fabric, light colored slightly pinkish-white quartz, very fine grained. Scattered clots and sparse disseminated red-brown Fe-oxides along foliation planes. Moderately weathered.
- KO5S-3R Grabs, rusty oxidized shear zone 10m wide. Mostly rusty gouge. Harder pieces: No. 1 cellular buff, fine-grained weathered quartz. Very fine dissem py & zns. No. 2 quartz vein material, py, zns.
- KSX-1R Skarned argillite, quartz, epidote, garnet, 1-5%py vicinity KO2S-8R/9R area.
- KSX-2R Hi-silica skarn rock, 10-15% py. Some Si has patchy, cherty appearance.
- KSX-3R Fine grained sugary skarn rock (intensely altered argillite) actinolite, calc-silicates, 15-20% fine, disseminated po (magnetic).
- ACS-1R 7005 Cut block, grabs, 4 m rusty interstratal shear zone, outcrop moderately skarned argillite
- ACS-2R 7005 cut block, grabs over 10 m, 8m. NW of 1R. Rusty shear. Larger fragments quartz-garnet rich 10-15% po, odd red-brown speck of oxidized zns??



## Appendix 2

### Sample Description List

Trip of 08-13 Oct. 1997

Project: **Kingpin and Kingpin Extension**

- 970-1R      New Block Road ENE of final post KP 29/30, west termination of road. Dark colored mafic volcanic, magnetic (Po 10-15%) disseminated, traces cpy. Strong Si alteration.
- 970-2R      Borrow Pit, East Side road KP-6. Large blocks, angular rubble from excavator. Rusty, light grey fresh surface with color banding. Intensely fractured and altered argillite with criss-cross sulphide (silvery py) fracture fillings. Secondary vein textures, some seams to several millimeters. Rich Py.
- 970-3R      Borrow pit. Punky, heavily-oxidized, soft, chocolate –brown rock. Odd, py harder, less oxidized pieces have heavy stringers and disseminations silvery py & po? Slightly magnetic. Rare speck Cpy, harder pieces largely Si, probably more sulphide- rich variety of 2R.
- 970-4R      Borrow Pit. Light grey fresh surface. Total Si Rock with micro Si banding. 20-40% Py. Non-magnetic. Traces red-brown zns? Overall VFG texture.
- 970-5,6,7R      From September location KO2S-8,9R. M.O. F. test pit. Gossan boxworks.
- 970-8R      Grabs. 10 m Qtz/solid Rusty zone. New Borrow pit exposure 6000 Rd. 100 m SW of new Weldwood operation.

## GEOCHEMICAL ANALYSIS CERTIFICATE

AA

AA

Wahl, Herb PROJECT KINGPIN File # 97-3362 Page 1

R.R. -4 S12 C4, Gibson BC V0N 1V0 Submitted by: Herb Wahl

SAMPLE#	Mo ppm	Cu ppm	Pb ppm	Zn ppm	Ag ppm	Ni ppm	Co ppm	Mn ppm	Fe %	As ppm	U ppm	Au ppm	Th ppm	Sr ppm	Cd ppm	Sb ppm	Bi ppm	V ppm	Ca %	P %	La ppm	Cr ppm	Mg %	Ba ppm	Ti %	B ppm	Al %	Na %	K %	W ppm	Au* ppb
KP5-1R	176	76	68	1991	16.4	34	8	1618	1.38	40	<8	<2	<2	1219	249.6	4	<3	51	18.25	.091	8	13	.57	111	.03	<3	.81	.02	.07	<2	16

Rock

ICP - .500 GRAM SAMPLE IS DIGESTED WITH 3ML 3-1-2 HCL-HNO3-H2O AT 95 DEG. C FOR ONE HOUR AND IS DILUTED TO 10 ML WITH WATER.  
 THIS LEACH IS PARTIAL FOR MN FE SR CA P LA CR MG BA TI B W AND LIMITED FOR NA K AND AL.  
 ASSAY RECOMMENDED FOR ROCK AND CORE SAMPLES IF CU PB ZN AS > 1%, AG > 30 PPM & AU > 1000 PPB  
 - SAMPLE TYPE: P1 ROCK P2 SOIL P3 SILT AU\* - IGNITED, AQUA-REGIA/MIBK EXTRACT, GF/AA FINISHED.(10 GM)

DATE RECEIVED: JUL 3 1997 DATE REPORT MAILED: July 11/97 SIGNED BY: *[Signature]* D. TOYE, C. LEONG, J. WANG; CERTIFIED B.C. ASSAYERS

APPENDIX 3



SAMPLE#	Mo ppm	Cu ppm	Pb ppm	Zn ppm	Ag ppm	Ni ppm	Co ppm	Mn ppm	Fe %	As ppm	U ppm	Au ppm	Th ppm	Sr ppm	Cd ppm	Sb ppm	Bi ppm	V ppm	Ca %	P %	La ppm	Cr ppm	Mg %	Ba ppm	Ti %	B ppm	Al %	Na %	K %	W ppm	Au* ppb
KP5-254	9	738	21	158	2.5	78	88	1993	3.90	19	<5	<2	3	3313	6.8	8	<2	169	2.43	.143	12	66	.88	272	.13	<3	5.89	.02	.96	<2	24
KP5-380	8	61	3	286	.5	23	12	483	3.91	168	<5	<2	<2	78	5.2	6	2	92	.58	.147	12	33	.17	34	.01	<3	.60	.01	.05	<2	8
KP5-409	9	139	123	315	1.3	25	32	1294	5.98	166	<5	<2	3	43	2.2	4	5	119	.47	.144	21	23	.11	26	<.01	<3	1.79	.01	.03	<2	17
KP5-630N	9	24	4	240	<.3	24	17	359	4.34	53	<5	<2	2	20	1.7	<2	<2	209	.48	.052	6	56	1.72	208	.26	<3	1.72	.01	.73	<2	3
RE KP5-630N	10	25	3	256	<.3	26	18	381	4.59	60	<5	<2	2	22	2.0	<2	<2	221	.51	.056	6	59	1.81	222	.28	<3	1.83	.01	.77	<2	2

Sample type: SOIL. Samples beginning 'RE' are Reruns and 'RRE' are Reject Reruns.

APPENDIX 3



ACME ANALYTICAL

Wahl, Herb PROJECT KINGPIN FILE # 97-3362

Page 3



ACME ANALYTICAL

SAMPLE#	Mo ppm	Cu ppm	Pb ppm	Zn ppm	Ag ppm	Ni ppm	Co ppm	Mn ppm	Fe %	As ppm	U ppm	Au ppm	Th ppm	Sr ppm	Cd ppm	Sb ppm	Bi ppm	V ppm	Ca %	P %	La ppm	Cr ppm	Mg %	Ba ppm	Ti %	B ppm	Al %	Na %	K %	W ppm	Au+ ppb
KP-5 0+453	10	75	19	301	.8	52	22	991	4.78	30	<5	<2	<2	77	7.4	<2	2	161	1.06	.120	11	42	.71	211	.10	<3	1.53	.02	.18	<2	6
KP IP 13/14 0+214	5	28	13	140	<.3	64	28	1422	4.75	30	<5	<2	2	40	.7	<2	<2	128	.51	.123	12	98	1.29	212	.14	<3	1.86	.03	.28	<2	3
KP IP 13/14 +455	4	62	12	233	.7	89	29	862	4.26	24	<5	<2	2	45	3.1	2	<2	144	.57	.093	17	101	1.39	240	.18	<3	2.27	.02	.37	<2	6
KP 15/16 +192	2	75	8	422	<.3	71	20	578	4.19	12	<5	<2	3	28	.5	<2	3	304	.75	.176	14	100	2.05	333	.30	<3	2.03	.02	.86	<2	4
RE KP 15/16 +192	2	72	4	409	<.3	69	19	557	4.05	14	<5	<2	4	27	<.2	<2	<2	292	.72	.169	13	95	2.00	323	.29	<3	1.97	.02	.84	<2	5

Sample type: SILT. Samples beginning 'RE' are Reruns and 'RRE' are Reject Reruns.

APPENDIX 3

All results are considered the confidential property of the client. Acme assumes the liabilities for actual cost of the analysis only.

Data 1 FA

GEOCHEMICAL ANALYSIS CERTIFICATE

Wahl, Herb PROJECT KINGPIN File # 97-5256  
 R.R. -4 S12 C4, Gibson BC VON 1V0 Submitted by: Herb Wahl



SAMPLE#	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P	La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Au*
	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	%	ppm	ppm	%	ppm	%	%	%	%	%	ppm	ppb
ACS-1R	5	244	4	80	2.5	57	24	337	4.25	<2	<8	<2	2	206	5.0	5	<3	176	1.47	.146	10	74	1.72	250	.27	<3	2.08	.07	.71	4	10
ACS-2R	5	145	13	305	2.8	44	19	287	3.99	<2	<8	<2	<2	519	18.9	8	<3	160	1.50	.139	10	57	1.23	589	.23	<3	2.27	.06	.75	10	7
KO2S-1R	10	272	8	113	2.3	62	28	129	3.92	7	<8	<2	3	35	17.6	<3	<3	199	.89	.189	19	50	.49	22	.05	5	1.03	.03	.20	<2	8
KO2S-2R	3	84	4	241	.3	47	23	404	4.63	7	<8	<2	2	45	13.4	<3	<3	113	.87	.175	20	43	.31	38	<.01	5	.93	.02	.07	<2	3
KO2S-3R	14	152	10	405	2.3	85	34	909	6.20	22	<8	<2	3	62	17.8	<3	<3	245	.94	.170	18	54	.35	92	.01	9	1.36	.02	.09	<2	11
KO2S-4R	147	165	<3	96	2.4	75	43	188	5.56	7	8	<2	<2	111	2.6	<3	<3	88	1.54	.142	10	27	1.03	46	.08	5	1.47	.06	.07	2	14
KO2S-5R	84	28	6	1378	11.6	23	8	1525	3.07	21	<8	<2	<2	148	144.3	5	<3	123	18.43	.075	31	30	2.26	5	<.01	5	.23	.03	.01	<2	5
KO2S-6R	30	86	514	769	13.9	37	26	429	3.81	42	<8	<2	<2	337	62.5	29	<3	132	1.33	.136	11	33	.71	78	.11	3	1.59	.08	.20	<2	87
KO2S-7R	21	113	215	825	8.6	67	36	189	3.79	58	<8	<2	<2	17	72.4	31	<3	96	.68	.142	9	27	.43	20	.13	<3	.57	.05	.14	<2	83
KO2S-8R	4	26	21	48	.8	18	14	4822	3.89	16	<8	<2	<2	72	2.4	5	3	49	6.34	.099	12	15	.50	31	<.01	8	.48	.01	.19	2	48
KO2S-9R	142	435	272	815	8.5	16	1	243	22.67	215	8	2	<2	4	50.3	69	23	13	.07	.105	2	5	.02	11	<.01	19	.14	<.01	.10	2	310
KO2S-10R	79	358	10	521	4.0	90	12	6469	17.29	81	<8	<2	2	219	133.5	4	<3	573	.46	.091	51	44	.22	1625	<.01	3	.97	.02	.10	<2	17
KO2S-11R	12	668	15	118	8.4	61	30	720	4.34	13	<8	<2	<2	2024	9.2	10	<3	217	1.74	.162	14	84	.70	173	.17	<3	3.24	.04	.56	<2	21
RE KO2S-11R	12	692	17	119	8.8	60	31	707	4.36	12	<8	<2	<2	2069	8.9	10	<3	219	1.76	.164	14	84	.71	172	.17	<3	3.32	.05	.58	<2	21
KO5S-1R	81	42	32	645	8.2	18	8	4007	14.80	23	<8	<2	<2	131	54.6	<3	<3	197	11.77	.038	28	18	2.81	32	<.01	<3	.54	.03	.03	<2	10
KO5S-2R	20	287	12	48	9.7	3	1	452	3.14	20	8	<2	2	155	1.5	8	<3	234	.49	.183	6	50	2.19	75	.28	<3	1.66	.11	1.09	2	47
KO5S-3R	12	289	45	662	8.6	44	27	1366	3.15	14	<8	<2	<2	2431	14.3	<3	<3	128	3.46	.142	13	32	.63	295	.12	4	3.79	.20	.34	<2	10
KSX-1R	9	483	5	89	2.0	50	20	345	2.93	12	<8	<2	<2	67	2.3	<3	<3	170	1.76	.155	12	45	1.09	53	.20	5	1.41	.10	.22	4	21
KSX-2R	179	83	12	1091	3.1	88	37	517	2.79	214	<8	<2	<2	93	146.5	6	<3	63	4.59	.140	14	23	.23	72	.13	4	1.01	.19	.06	<2	8
KSX-3R	5	14	11	268	.6	171	24	159	3.32	304	<8	<2	2	31	7.1	10	<3	144	.81	.161	15	43	.77	47	.15	3	1.00	.12	.27	2	10
STANDARD C3/AU-R	25	63	35	142	5.6	35	11	757	3.41	47	19	<2	17	31	22.9	17	22	82	.60	.089	20	169	.59	153	.10	20	1.94	.04	.16	19	440

ICP - .500 GRAM SAMPLE IS DIGESTED WITH 3ML 3-1-2 HCL-HNO3-H2O AT 95 DEG. C FOR ONE HOUR AND IS DILUTED TO 10 ML WITH WATER.  
 THIS LEACH IS PARTIAL FOR MN FE SR CA P LA CR MG BA TI B W AND LIMITED FOR NA K AND AL.  
 ASSAY RECOMMENDED FOR ROCK AND CORE SAMPLES IF CU PB ZN AS > 1%, AG > 30 PPM & AU > 1000 PPB  
 - SAMPLE TYPE: ROCK AU\* - IGNITED, AQUA-REGIA/MIBK EXTRACT, GF/AA FINISHED.(10 GM)  
 Samples beginning 'RE' are Reruns and 'RRE' are Reject Reruns.

DATE RECEIVED: SEP 10 1997 DATE REPORT MAILED: *Sept 24/97* SIGNED BY: *C. Leong* .D.TOYE, C.LEONG, J.WANG; CERTIFIED B.C. ASSAYERS

APPENDIX 4

GEOCHEMICAL ANALYSIS CERTIFICATE

Wahl, Herb PROJECT KINGPIN File # 97-5257 Page 1

R.R. -4 S12 C4, Gibson BC VON 1V0 Submitted by: Herb Wahl



SAMPLE#	Mo ppm	Cu ppm	Pb ppm	Zn ppm	Ag ppm	Ni ppm	Co ppm	Mn ppm	Fe %	As ppm	U ppm	Au ppm	Th ppm	Sr ppm	Cd ppm	Sb ppm	Bi ppm	V ppm	Ca %	P %	La ppm	Cr ppm	Mg %	Ba ppm	Ti %	B ppm	Al %	Na %	K %	W ppm
K LB.5N 500W	2	13	3	105	.6	22	8	148	3.56	5	<8	<2	3	17	1.6	<3	5	109	.15	.077	6	44	.44	69	.16	3	1.52	.01	.08	2
K LB.5N 480W	2	66	4	158	.5	53	16	189	3.64	10	<8	<2	4	26	2.6	3	4	129	.24	.093	9	65	.94	144	.17	7	2.16	.02	.10	<2
K LB.5N 460W	2	82	3	194	.5	55	13	275	3.79	11	<8	<2	3	25	1.9	<3	<3	159	.41	.119	7	66	1.04	141	.16	<3	1.99	.02	.11	<2
K LB.5N 440W	5	130	<3	99	2.1	38	6	183	2.57	4	<8	<2	2	49	5.5	<3	6	111	.50	.034	9	38	.43	87	.14	6	1.01	.02	.16	<2
K LB.5N 420W	6	89	3	51	1.5	25	4	128	2.11	6	<8	<2	2	16	3.2	3	3	78	.20	.083	8	30	.20	34	.10	<3	.65	.01	.12	<2
K LB.5N 400W	6	132	5	195	2.5	44	12	704	4.12	12	<8	<2	2	33	4.8	<3	5	144	.30	.082	11	53	.78	67	.10	<3	1.85	.01	.10	<2
K LB.5N 380W	4	85	9	120	3.0	37	8	231	3.28	17	<8	<2	2	27	5.0	<3	<3	115	.44	.073	9	54	.58	87	.13	3	1.23	.01	.16	<2
K LB.5N 360W	1	21	4	166	1.5	43	13	333	3.39	10	<8	<2	3	31	3.3	<3	<3	102	.27	.101	12	71	.82	96	.14	<3	2.00	.01	.10	<2
K LB.5N 320W	<1	16	<3	124	.6	41	10	203	3.09	4	<8	<2	2	22	1.3	<3	<3	95	.21	.083	10	73	.81	123	.16	5	1.62	.02	.08	<2
K LB.5N 300W	<1	42	4	99	.7	69	15	294	4.15	10	<8	<2	3	26	1.4	<3	3	119	.26	.089	12	107	1.29	130	.16	6	2.64	.01	.17	<2
K LB.5N 280W	1	20	6	69	.8	33	11	384	3.01	8	<8	<2	3	29	1.6	<3	4	93	.22	.060	12	70	.65	126	.13	3	1.21	.02	.11	<2
K LB.5N 260W	1	17	5	53	.7	25	15	498	2.67	4	<8	<2	3	26	1.1	<3	<3	70	.25	.066	14	54	.58	127	.12	<3	1.16	.01	.08	<2
RE K LB.5N 260W	1	17	5	55	.4	27	16	511	2.69	4	<8	<2	2	25	1.0	<3	<3	70	.25	.067	14	56	.59	122	.12	<3	1.19	.02	.09	<2
K LB.5N 240W	1	25	<3	89	.6	46	11	295	3.66	9	<8	<2	3	28	1.2	<3	7	87	.37	.137	17	77	.98	135	.12	<3	1.88	.02	.15	2
K LB.5N 220W	1	26	3	68	.6	49	11	283	3.37	11	<8	<2	4	19	1.0	<3	12	75	.20	.071	19	75	.93	106	.11	3	1.84	.01	.15	<2
K LB.5N 200W	<1	14	4	42	.6	27	6	163	2.34	4	<8	<2	3	14	.5	<3	<3	60	.12	.054	10	51	.50	81	.10	<3	1.38	.01	.08	<2
K LB.5N 180W	1	18	4	50	1.1	33	7	172	2.48	5	<8	<2	3	15	.7	<3	<3	61	.12	.055	13	60	.67	82	.12	<3	1.60	.02	.10	<2
K LB.5N 160W	1	14	9	76	.8	36	7	216	3.08	8	<8	<2	4	19	.8	<3	4	77	.18	.091	15	64	.66	100	.12	4	1.68	.01	.09	<2
K LB.5N 140W	<1	20	6	194	1.0	30	7	489	2.76	4	<8	<2	3	25	1.0	<3	<3	133	.13	.085	10	60	.72	153	.19	<3	1.69	.02	.08	<2
K LB.5N 120W	<1	24	<3	251	.6	56	11	638	3.42	<2	<8	<2	3	20	1.1	<3	<3	208	.19	.096	12	85	1.20	137	.22	<3	2.08	.01	.09	<2
K LB.5N 100W	1	15	4	158	1.2	38	7	193	4.16	6	<8	<2	6	16	1.1	<3	<3	143	.18	.359	14	83	.82	121	.16	4	2.39	.01	.09	3
K LB.5N 80W	1	12	9	123	.9	26	8	213	3.58	7	<8	<2	4	17	1.7	<3	<3	97	.23	.217	12	71	.71	149	.14	<3	2.36	.01	.08	<2
K LB.5N 60W	1	9	6	49	1.0	17	6	136	2.24	5	<8	<2	3	15	.8	<3	<3	52	.20	.074	11	38	.37	65	.09	<3	1.33	.02	.07	<2
K LB.5N 40W	1	21	<3	81	.5	43	15	395	3.55	11	<8	<2	4	19	1.1	<3	<3	83	.20	.093	13	72	.88	100	.14	5	2.32	.01	.12	<2
K LB.5N 20W	1	24	4	88	.8	41	10	221	3.49	9	<8	<2	2	21	1.3	<3	<3	93	.23	.046	11	78	1.15	112	.16	<3	2.27	.01	.14	<2
K L7.5N 300W	2	39	5	89	.9	54	18	725	3.27	10	<8	<2	2	29	4.6	<3	5	83	.22	.072	13	88	.80	133	.11	<3	1.72	.02	.13	<2
K L7.5N 280W	1	26	8	103	.5	65	13	321	3.08	13	9	<2	4	18	1.1	<3	<3	108	.22	.053	17	127	1.16	106	.14	4	1.68	.02	.16	<2
K L7.5N 260W	1	44	6	71	.9	73	22	679	3.68	17	<8	<2	2	24	2.1	<3	8	88	.19	.062	14	130	1.10	154	.10	<3	2.33	.01	.18	<2
K L7.5N 240W	1	44	<3	71	1.5	64	13	313	3.40	13	<8	<2	2	24	1.7	<3	<3	76	.22	.077	17	104	1.01	130	.09	6	2.24	.02	.15	2
K L7.5N 220W	1	28	10	64	.8	43	14	529	3.16	6	<8	<2	2	18	1.4	<3	<3	68	.15	.071	12	70	.63	119	.11	3	1.97	.02	.13	<2
K L7.5N 200W	<1	17	6	78	.6	42	9	245	3.21	4	<8	<2	5	17	.5	<3	<3	80	.15	.063	17	70	.82	121	.14	<3	1.82	.01	.12	<2
K L7.5N 180W	<1	27	6	88	.4	48	11	281	3.56	9	<8	<2	5	19	.9	<3	<3	85	.16	.049	17	77	1.01	123	.13	<3	2.07	.01	.17	<2
K L7.5N 160W	1	33	10	71	.8	59	13	285	3.54	10	<8	<2	5	13	.4	<3	<3	77	.10	.046	13	97	.92	111	.13	7	2.48	.02	.16	<2
K L7.5N 140W	<1	22	<3	172	1.1	51	10	196	3.85	7	<8	<2	5	27	.9	<3	<3	135	.27	.208	13	82	.98	172	.16	4	2.12	.01	.10	<2
K L7.5N 120W	2	18	6	168	.3	37	9	244	3.38	3	<8	<2	5	19	.9	<3	<3	104	.17	.074	11	66	.68	123	.14	<3	2.03	<.01	.08	<2
STANDARD C3	26	61	31	152	5.8	36	12	761	3.55	54	34	2	21	30	23.5	15	24	86	.59	.090	19	178	.62	149	.10	20	1.94	.04	.16	20

ICP - .500 GRAM SAMPLE IS DIGESTED WITH 3ML 3-1-2 HCL-HNO3-H2O AT 95 DEG. C FOR ONE HOUR AND IS DILUTED TO 10 ML WITH WATER.  
 THIS LEACH IS PARTIAL FOR MN FE SR CA P LA CR MG BA TI B W AND LIMITED FOR NA K AND AL.  
 - SAMPLE TYPE: SOIL Samples beginning 'RE' are Reruns and 'RRE' are Reject Reruns.

APPENDIX 4

DATE RECEIVED: SEP 10 1997 DATE REPORT MAILED: Sept 17/97 SIGNED BY: [Signature] D. TOYE, C. LEONG, J. WANG; CERTIFIED B.C. ASSAYERS

All results are considered the confidential property of the client. Acme assumes the liabilities for actual cost of the analysis only.

Data FA



SAMPLE#	Mo ppm	Cu ppm	Pb ppm	Zn ppm	Ag ppm	Ni ppm	Co ppm	Mn ppm	Fe %	As ppm	U ppm	Au ppm	Th ppm	Sr ppm	Cd ppm	Sb ppm	Bi ppm	V ppm	Ca %	P %	La ppm	Cr ppm	Mg %	Ba ppm	Ti %	B ppm	Al %	Na %	K %	W ppm
K 975N 100W	1	10	8	31	.6	11	4	274	1.30	3	<8	<2	<2	11	.4	<3	<3	39	.10	.031	10	26	.21	66	.10	<3	.77	.01	.06	<2
K 950N 100W	2	29	8	106	.4	48	12	272	3.46	10	<8	<2	<2	20	.8	3	<3	91	.20	.084	17	82	.99	125	.15	<3	2.21	.01	.13	2
K 925N 100W	1	27	9	79	.6	41	10	259	3.16	8	<8	<2	<2	21	1.1	3	<3	82	.24	.072	14	65	.87	118	.13	<3	2.20	.01	.14	<2
K 900N 100W	2	30	8	62	.7	37	14	621	2.60	6	<8	<2	<2	22	.8	<3	<3	69	.16	.049	20	61	.75	120	.09	<3	1.76	.01	.12	<2
K 870N 100W	1	6	8	32	<.3	6	3	335	1.48	3	<8	<2	<2	12	.4	<3	<3	45	.12	.092	8	21	.15	82	.10	<3	.48	.01	.06	<2
RE K 870N 100W	1	5	10	30	.3	7	3	330	1.47	<2	<8	<2	<2	12	.6	<3	<3	44	.12	.094	8	21	.15	82	.10	<3	.49	.02	.06	<2

Sample type: SOIL. Samples beginning 'RE' are Reruns and 'RRE' are Reject Reruns.

APPENDIX 4

GEOCHEMICAL ANALYSIS CERTIFICATE



Wahl, Herb PROJECT KINGPIN File # 97-6131

R.R. -4 S12 C4, Gibson BC V0N 1V0

SAMPLE#	Mo ppm	Cu ppm	Pb ppm	Zn ppm	Ag ppm	Ni ppm	Co ppm	Mn ppm	Fe %	As ppm	U ppm	Au ppm	Th ppm	Sr ppm	Cd ppm	Sb ppm	Bi ppm	V ppm	Ca %	P %	La ppm	Cr ppm	Mg %	Ba ppm	Ti %	B ppm	Al %	Na %	K %	W ppm	Au* ppb
KPAS 1446NW	5	32	7	65	<.3	45	34	1284	3.74	26	<8	<2	2	34	.3	<3	<3	111	.44	.095	9	85	1.00	145	.14	3	1.70	.02	.19	<2	5
KPB 915N	29	13	12	24	.4	20	11	43145	3.84	38	<8	<2	<2	125	1.5	5	<3	6	2.83	.174	<1	2	.04	1469	<.01	9	.11	.02	.06	<2	<1
KPC 200N	3	224	14	106	2.7	125	19	1658	3.51	26	14	<2	2	160	5.4	<3	<3	93	2.67	.123	28	111	.73	386	.07	7	2.82	.03	.27	<2	2
KPC 250N	4	38	13	76	.5	51	11	266	3.84	10	<8	<2	2	25	1.1	<3	<3	151	.33	.038	5	117	.94	97	.25	<3	1.50	.02	.11	<2	1
KPC 300N	4	260	19	153	3.3	205	26	808	5.52	40	<8	<2	5	79	4.1	<3	<3	121	1.06	.070	30	166	1.02	623	.11	3	4.28	.04	.40	3	14
KPC 1040N	1	15	8	27	.5	8	8	1390	1.46	5	<8	<2	<2	92	.7	<3	<3	35	2.89	.176	2	11	.09	370	.01	5	.27	.01	.03	<2	<1
RE KPC 300N	3	257	15	150	3.1	202	26	767	5.39	44	<8	<2	5	77	4.2	<3	<3	119	1.01	.068	29	162	1.00	615	.11	4	4.11	.05	.40	<2	4

ICP - .500 GRAM SAMPLE IS DIGESTED WITH 3ML 3-1-2 HCL-HNO3-H2O AT 95 DEG. C FOR ONE HOUR AND IS DILUTED TO 10 ML WITH WATER.  
 THIS LEACH IS PARTIAL FOR MN FE SR CA P LA CR MG BA TI B W AND LIMITED FOR NA K AND AL.  
 - SAMPLE TYPE: SILT AU\* - AQUA-REGIA/MIBK EXTRACT, GF/AA FINISHED.(10 GM)  
 Samples beginning 'RE' are Reruns and 'RRE' are Reject Reruns.

DATE RECEIVED: OCT 15 1997

DATE REPORT MAILED: Oct 21/97

SIGNED BY: *C. Leong* TOYE, C. LEONG, J. WANG; CERTIFIED B.C. ASSAYERS

APPENDIX 5



GEOCHEMICAL ANALYSIS CERTIFICATE

Wahl, Herb PROJECT KINGPIN File # 97-6132 Page 1

R.R. -4 S12 C4, Gibson BC V0N 1V0



SAMPLE#	Mo ppm	Cu ppm	Pb ppm	Zn ppm	Ag ppm	Ni ppm	Co ppm	Mn ppm	Fe %	As ppm	U ppm	Au ppm	Th ppm	Sr ppm	Cd ppm	Sb ppm	Bi ppm	V ppm	Ca %	P %	La ppm	Cr ppm	Mg %	Ba ppm	Ti %	B ppm	Al %	Na %	K %	W ppm
KPA 1985NW	5	112	9	94	.3	111	30	776	4.99	20	<8	<2	2	41	.9	<3	<3	142	.38	.042	12	185	1.97	185	.24	<3	3.49	.02	.36	<2
KPA 1950NW	2	66	6	91	<.3	119	28	577	4.41	14	<8	<2	<2	31	.5	<3	<3	115	.45	.056	11	199	2.21	151	.23	<3	3.56	.03	.32	<2
KPA 1900NW	4	90	8	114	.3	101	33	945	5.06	19	<8	<2	<2	29	.8	4	<3	137	.29	.051	10	170	1.81	174	.22	<3	3.63	.02	.28	<2
KPA 1850NW	3	91	8	95	<.3	94	28	549	4.45	23	<8	<2	2	24	.9	4	<3	125	.27	.044	13	149	1.62	151	.24	<3	3.43	.02	.29	<2
KPA 1800NW	2	42	6	54	<.3	54	14	334	3.57	14	<8	<2	<2	20	.5	3	<3	101	.26	.033	10	102	1.20	89	.19	<3	2.41	.03	.12	<2
KPA 1750NW	2	42	9	54	.7	43	13	437	2.31	7	<8	<2	<2	36	.3	<3	<3	70	.37	.108	11	83	.89	119	.08	<3	1.96	.02	.11	<2
KPA 1700NW	4	40	7	80	.3	66	16	499	3.18	7	<8	<2	<2	25	.3	<3	<3	92	.30	.039	9	157	1.66	90	.20	<3	2.40	.02	.13	<2
KPA 1650NW	2	30	11	30	.9	27	14	699	1.12	2	<8	<2	<2	56	.4	<3	<3	23	.52	.145	16	55	.37	153	.02	3	1.35	.02	.08	<2
KPA 1600NW	2	39	6	7	.5	12	7	219	.69	6	8	<2	<2	34	.7	<3	<3	18	.37	.158	9	17	.06	69	<.01	<3	.50	.01	.03	<2
KPA 1550NW	1	20	7	21	<.3	16	5	134	1.12	2	<8	<2	<2	29	.3	<3	<3	38	.32	.093	7	48	.36	80	.07	<3	.96	.02	.05	<2
KPA 1500NW	<1	29	5	8	1.3	13	5	90	.99	2	<8	<2	<2	58	.8	<3	<3	11	.56	.158	7	13	.08	112	.01	3	.58	.01	.03	<2
KPA 1400NW	1	53	8	44	.5	42	9	260	1.94	10	<8	<2	<2	32	.7	<3	<3	61	.31	.078	14	92	.68	153	.10	3	2.17	.01	.15	<2
KPA 1350NW	2	44	6	51	<.3	44	12	271	2.66	6	<8	<2	<2	31	.5	<3	<3	84	.35	.049	9	89	1.02	105	.15	<3	1.84	.02	.14	<2
KPA 1300NW	3	62	9	31	1.4	41	7	146	1.92	6	<8	<2	<2	36	1.3	<3	<3	43	.58	.156	12	85	.46	131	.03	3	2.23	.02	.17	<2
RE KPA 1300NW	3	61	8	31	1.3	41	7	142	1.92	5	<8	<2	<2	36	1.4	<3	<3	42	.58	.156	12	82	.46	132	.03	<3	2.22	.02	.17	<2
KPA 1250NW	2	63	7	54	.5	44	12	309	3.48	9	<8	<2	<2	13	.7	<3	<3	92	.12	.051	8	88	.92	68	.12	<3	2.33	.02	.11	<2
KPA 1200NW	2	57	8	84	.6	61	23	736	3.96	13	<8	<2	<2	30	1.0	<3	<3	113	.36	.078	10	110	1.22	103	.16	<3	2.24	.02	.16	<2
KPA 1150NW	1	77	8	84	1.7	56	23	1052	3.46	12	<8	<2	<2	41	1.3	<3	<3	104	.56	.109	10	96	1.11	144	.08	4	2.26	.02	.20	<2
KPA 1100NW	1	72	12	74	1.0	57	28	1093	2.54	7	<8	<2	<2	36	.8	<3	<3	68	.50	.110	11	91	.99	130	.08	<3	2.15	.03	.19	<2
KPA 1050NW	1	39	9	85	.4	31	12	497	3.68	11	<8	<2	<2	18	.7	<3	<3	117	.27	.114	6	85	.86	96	.20	<3	1.49	.02	.11	<2
KPA 1000NW	2	49	10	92	.4	84	16	347	3.81	15	<8	<2	<2	27	.7	3	<3	103	.34	.058	11	105	1.06	111	.23	<3	1.92	.02	.16	<2
KPA 950NW	3	33	9	66	<.3	52	16	523	3.47	13	<8	<2	<2	28	.4	<3	<3	94	.46	.233	6	106	.91	203	.14	<3	1.63	.02	.13	<2
KPA 900NW	3	58	9	48	.3	38	12	326	3.99	16	<8	<2	<2	13	.7	<3	<3	121	.18	.043	8	80	.83	58	.23	<3	2.05	.02	.12	<2
KPA 850NW	1	47	8	112	.4	38	22	621	5.32	18	<8	<2	<2	18	.5	<3	<3	177	.33	.152	6	82	1.40	159	.28	<3	2.22	.02	.21	<2
KPA 800NW	9	254	9	41	3.1	43	40	1778	2.84	24	10	<2	<2	56	6.3	4	<3	96	1.36	.227	42	63	.56	154	.04	<3	2.74	.02	.11	<2
KPA 750NW	4	142	10	104	.8	68	36	1181	4.09	26	<8	<2	<2	27	1.2	3	<3	116	.64	.071	14	93	1.06	156	.15	<3	2.59	.02	.17	<2
KPA 700NW	2	33	10	93	<.3	34	14	595	3.56	12	<8	<2	<2	17	.6	<3	<3	111	.29	.052	8	70	.81	167	.19	<3	1.66	.02	.08	<2
KPA 650NW	2	27	8	71	.5	30	11	362	3.76	11	<8	<2	<2	34	.5	<3	<3	121	.51	.062	7	69	.91	135	.22	<3	1.67	.03	.11	<2
KPA 600NW	2	35	7	136	.3	45	17	582	3.95	15	<8	<2	<2	21	.7	<3	<3	113	.30	.161	7	94	1.18	107	.17	<3	2.12	.02	.08	<2
KPA 550NW	2	59	6	110	.4	53	22	466	4.18	19	<8	<2	<2	23	1.1	<3	<3	152	.40	.161	7	88	1.53	96	.26	<3	2.83	.02	.39	<2
KPA 500NW	2	51	8	111	.3	71	17	312	4.03	18	<8	<2	<2	26	1.6	4	<3	116	.41	.136	8	114	1.32	114	.20	<3	2.58	.03	.09	<2
KPA 450NW	1	52	10	92	.7	37	16	635	3.39	17	<8	<2	<2	34	1.1	<3	<3	114	.61	.079	8	72	.92	129	.18	3	1.64	.02	.08	<2
KPA 400NW	1	38	9	141	.5	51	19	762	3.53	21	<8	<2	<2	31	4.8	3	<3	113	.51	.104	8	91	1.13	145	.16	<3	2.00	.02	.10	<2
KPA 350NW	3	58	12	127	1.0	31	13	997	2.80	12	<8	<2	<2	34	7.5	<3	<3	123	.81	.076	7	54	.96	93	.14	<3	1.60	.02	.10	<2
KPA 300NW	2	41	8	220	.4	49	18	509	3.33	10	<8	<2	<2	28	4.3	<3	<3	149	.62	.085	9	80	1.02	105	.16	<3	1.72	.02	.10	<2
STANDARD C3	25	63	37	153	5.4	37	12	748	3.31	53	23	2	19	29	22.4	16	21	80	.58	.084	20	170	.59	141	.10	20	1.89	.04	.16	17
STANDARD G-1	1	4	6	39	<.3	7	5	536	2.11	<2	<8	<2	4	75	<.2	<3	<3	43	.67	.086	10	60	.57	224	.15	<3	1.01	.09	.47	3

ICP - .500 GRAM SAMPLE IS DIGESTED WITH 3ML 3-1-2 HCL-HNO3-H2O AT 95 DEG. C FOR ONE HOUR AND IS DILUTED TO 10 ML WITH WATER.  
 THIS LEACH IS PARTIAL FOR MN FE SR CA P LA CR MG BA TI B W AND LIMITED FOR NA K AND AL  
 - SAMPLE TYPE: SOIL Samples beginning 'RE' are Reruns and 'RRE' are Reject Reruns.

APPENDIX 6

DATE RECEIVED: OCT 15 1997 DATE REPORT MAILED: Oct 24/97 SIGNED BY: [Signature] D. TOYE, C. LEONG, J. WANG; CERTIFIED B.C. ASSAYERS

All results are considered the confidential property of the client. Acme assumes the liabilities for actual cost of the analysis only.

Data FA



SAMPLE#	Mo ppm	Cu ppm	Pb ppm	Zn ppm	Ag ppm	Ni ppm	Co ppm	Mn ppm	Fe %	As ppm	U ppm	Au ppm	Th ppm	Sr ppm	Cd ppm	Sb ppm	Bi ppm	V ppm	Ca %	P %	La ppm	Cr ppm	Mg %	Ba ppm	Ti %	B ppm	Al %	Na %	K %	W ppm
KPA 250NW	5	112	10	251	1.8	68	22	602	5.02	16	<8	<2	2	26	3.2	<3	<3	164	.30	.094	8	120	1.37	156	.20	<3	2.65	.02	.15	<2
KPA 200NW	2	49	10	113	1.0	43	18	565	3.80	16	<8	<2	<2	33	2.4	3	<3	124	.39	.095	13	82	1.19	138	.18	<3	2.12	.02	.13	<2
KPA 150NW	1	42	3	72	.6	43	18	699	3.37	17	<8	<2	<2	25	.7	<3	<3	101	.25	.088	10	85	1.10	95	.13	4	2.20	.02	.15	<2
KPA 100NW	4	63	5	77	1.2	51	15	544	4.54	23	<8	<2	2	26	.7	<3	<3	126	.24	.090	11	97	1.23	114	.19	<3	2.87	.02	.19	<2
KPA 50NW	3	37	6	30	.7	19	12	522	2.30	8	<8	<2	<2	28	1.2	<3	<3	65	.24	.089	11	40	.38	58	.07	3	1.47	.02	.07	<2
KPA 0NW	4	53	14	44	.7	25	61	2408	2.82	11	<8	<2	<2	31	1.6	<3	<3	72	.23	.144	16	48	.48	101	.03	<3	2.11	.01	.07	<2
KPB 1500N	1	30	<3	99	.3	42	26	653	6.97	11	<8	<2	<2	16	.3	4	<3	234	.48	.139	4	103	1.82	56	.32	<3	2.13	.03	.21	<2
KPB 1400N	2	25	5	178	.5	41	21	407	5.30	15	<8	<2	2	28	.8	<3	3	180	.33	.098	6	102	1.48	110	.36	<3	2.70	.02	.18	<2
KPB 1300N	1	55	7	47	.3	11	6	227	2.81	7	<8	<2	<2	22	2.3	<3	<3	98	.41	.042	4	44	.38	46	.24	3	.76	.01	.05	<2
KPB 1200N	2	34	6	81	2.0	26	9	676	2.53	4	<8	<2	<2	72	2.9	<3	<3	96	.32	.068	6	40	.72	202	.24	<3	1.30	.03	.18	<2
KPB 1100N	5	75	9	163	1.2	60	18	1562	3.82	17	<8	<2	2	46	10.2	5	<3	114	.93	.094	10	86	1.12	193	.14	4	2.73	.02	.18	<2
KPB 1050N	1	8	8	20	<.3	5	2	483	.52	<2	<8	<2	<2	112	.8	<3	<3	6	3.09	.118	<1	6	.10	140	<.01	7	.15	.01	.05	<2
RE KPB 1050N	2	7	7	20	.5	4	2	467	.52	<2	<8	<2	<2	111	.8	<3	<3	5	3.11	.117	<1	7	.10	138	<.01	7	.14	.01	.05	<2
KPB 1000N	1	4	<3	6	<.3	2	1	34	.10	<2	<8	<2	<2	91	<.2	<3	<3	1	3.23	.098	<1	1	.07	26	<.01	12	.06	.02	.03	<2
KPB 950N	2	4	6	16	<.3	3	1	73	.26	<2	<8	<2	<2	75	.5	<3	<3	3	2.36	.116	<1	1	.05	53	<.01	8	.07	.01	.04	<2
KPB 900N	3	14	10	50	.5	18	6	142	2.60	5	<8	<2	2	15	.4	<3	<3	78	.13	.053	9	52	.46	66	.15	3	1.74	.02	.05	<2
KPB 800N	1	37	8	33	1.1	15	5	189	1.30	2	<8	<2	<2	59	.7	<3	<3	47	1.88	.099	5	37	.43	150	.07	<3	1.01	.02	.04	<2
KPB 700N	2	11	4	15	<.3	6	4	1343	.63	2	<8	<2	<2	96	.7	<3	<3	10	3.75	.110	<1	3	.06	180	<.01	6	.11	.01	.02	<2
KPB 600N	3	51	7	111	<.3	68	21	486	5.11	10	<8	<2	2	25	.3	<3	<3	130	.37	.230	9	145	1.63	190	.21	<3	2.94	.02	.17	<2
KPB 500N	4	44	9	98	.3	54	15	307	5.38	12	<8	<2	4	14	.3	<3	<3	163	.19	.100	13	118	1.13	123	.23	<3	2.96	.01	.10	<2
KPB 400N	2	15	5	16	<.3	6	2	162	.39	<2	<8	<2	<2	60	.4	<3	<3	9	1.71	.106	1	3	.05	141	<.01	7	.16	.01	.02	<2
KPB 300N	2	16	6	56	<.3	25	9	179	2.59	4	<8	<2	2	13	<.2	<3	<3	81	.21	.087	5	64	.68	55	.18	<3	1.49	.02	.07	<2
KPB 200N	3	57	10	79	.3	68	18	340	4.57	16	<8	<2	2	22	.3	<3	<3	121	.27	.093	11	133	1.50	111	.17	<3	2.40	.01	.13	<2
KPB 100N	6	35	10	65	.3	62	13	246	4.31	12	<8	<2	2	16	.3	<3	<3	122	.25	.068	11	132	1.06	66	.19	<3	1.91	.01	.13	<2
KPB 00N	2	41	3	106	.3	51	17	406	3.80	4	<8	<2	<2	21	.6	<3	<3	97	.43	.136	5	105	1.91	272	.35	<3	2.36	.02	.19	<2
KPC 1500N	3	21	11	80	<.3	44	12	200	3.14	13	<8	<2	3	13	.3	<3	<3	87	.17	.086	12	92	.79	99	.15	<3	1.63	.02	.07	<2
KPC 1400N	2	64	13	119	.3	53	17	399	3.72	5	<8	<2	3	18	.5	<3	<3	98	.35	.161	7	109	1.22	138	.22	<3	2.42	.02	.12	<2
KPC 1250N	2	36	6	101	<.3	79	23	476	4.80	9	<8	<2	2	29	.3	<3	<3	162	.45	.117	9	175	1.91	200	.32	<3	2.85	.02	.25	<2
KPC 1200N	<1	7	6	18	<.3	6	2	104	.73	<2	<8	<2	<2	7	<.2	<3	<3	26	.08	.026	6	23	.22	92	.08	<3	.46	.02	.04	<2
KPC 1150N	2	82	10	80	1.9	62	9	385	2.50	8	<8	<2	<2	59	.5	3	<3	69	1.84	.164	15	77	.63	359	.06	6	2.21	.02	.15	<2
KPC 1100N	2	52	11	62	1.1	64	15	797	3.12	7	<8	<2	<2	47	1.2	<3	<3	75	.95	.049	17	99	.66	459	.11	<3	2.22	.02	.17	<2
KPC 1000N	3	17	12	50	.3	28	8	157	3.35	9	<8	<2	3	20	<.2	<3	<3	93	.22	.087	13	64	.64	142	.16	<3	1.46	.01	.07	<2
KPC 950N	3	95	5	69	<.3	45	25	666	5.15	7	<8	<2	2	36	.4	<3	<3	161	.81	.154	9	85	1.80	142	.28	<3	2.82	.03	.28	<2
KPC 900N	1	14	5	8	<.3	6	2	116	.32	3	<8	<2	<2	49	.2	<3	<3	10	1.09	.157	1	4	.05	149	<.01	<3	.21	.01	.05	<2
KPC 850N	1	16	5	18	<.3	6	8	1008	.52	<2	<8	<2	<2	77	.6	<3	<3	13	2.37	.090	1	3	.07	179	<.01	5	.22	.01	.01	<2
STANDARD G-3	26	65	37	158	5.7	38	13	773	3.52	55	18	<2	21	31	23.1	15	20	82	.60	.087	21	182	.61	150	.10	20	1.95	.04	.16	17
STANDARD G-1	1	4	<3	41	<.3	6	5	569	2.19	<2	<8	<2	6	79	<.2	<3	<3	43	.68	.086	10	16	.61	253	.15	3	1.07	.10	.52	4

Sample type: SOIL. Samples beginning 'RE' are Reruns and 'RRE' are Reject Reruns.

APPENDIX 6



SAMPLE#	Mo ppm	Cu ppm	Pb ppm	Zn ppm	Ag ppm	Ni ppm	Co ppm	Mn ppm	Fe %	As ppm	U ppm	Au ppm	Th ppm	Sr ppm	Cd ppm	Sb ppm	Bi ppm	V ppm	Ca %	P %	La ppm	Cr ppm	Mg %	Ba ppm	Ti %	B ppm	Al %	Na %	K %	W ppm
KPC 800N	3	37	11	65	2.0	58	12	484	2.75	7	<8	<2	<2	32	.6	<3	<3	52	.61	.126	16	65	.54	341	.05	4	3.07	.03	.28	<2
KPC 700N	3	40	8	128	.3	73	21	336	4.81	7	<8	<2	3	22	.5	<3	<3	154	.31	.173	12	140	1.36	136	.18	6	2.76	.02	.11	<2
KPC 650N	2	12	10	42	.6	18	5	145	1.98	5	<8	<2	<2	6	.3	<3	<3	57	.05	.039	9	34	.24	91	.11	<3	.96	.02	.05	<2
KPC 600N	<1	34	8	86	<.3	52	17	434	4.14	11	<8	<2	2	21	.3	<3	<3	105	.32	.082	14	97	.95	166	.17	4	1.99	.02	.13	<2
KPC 500N	<1	5	7	15	<.3	7	3	71	1.24	<2	<8	<2	<2	10	.3	<3	<3	45	.09	.021	7	31	.12	49	.10	<3	.39	.02	.04	<2
KPC 450N	2	30	8	98	.3	65	24	340	4.41	13	<8	<2	3	22	.6	<3	<3	87	.36	.069	17	137	1.10	189	.16	5	2.17	.02	.09	<2
KPC 400N	3	81	14	115	2.3	130	25	1608	5.10	25	<8	<2	<2	60	2.1	4	<3	99	1.25	.092	28	137	.91	508	.09	4	4.18	.03	.33	<2
RE KPC 400N	3	81	15	116	2.3	132	25	1641	5.15	25	<8	<2	<2	61	2.3	3	<3	99	1.27	.091	28	139	.92	519	.09	5	4.21	.03	.33	<2
KPC 100N	2	175	7	106	2.1	106	10	292	2.07	12	<8	<2	<2	241	10.0	<3	<3	48	3.47	.125	18	71	.48	242	.04	14	1.63	.02	.16	<2
STANDARD C3	25	61	34	156	5.7	37	12	767	3.44	53	19	<2	17	30	22.6	15	22	83	.59	.085	20	175	.60	145	.11	20	1.95	.04	.16	17
STANDARD G-1	<1	3	4	40	<.3	6	5	567	2.19	<2	<8	<2	5	80	<.2	<3	<3	46	.70	.089	11	17	.60	239	.16	4	1.06	.10	.50	4

Sample type: SOIL. Samples beginning 'RE' are Reruns and 'RRE' are Reject Reruns.

APPENDIX G

## GEOCHEMICAL ANALYSIS CERTIFICATE

AA

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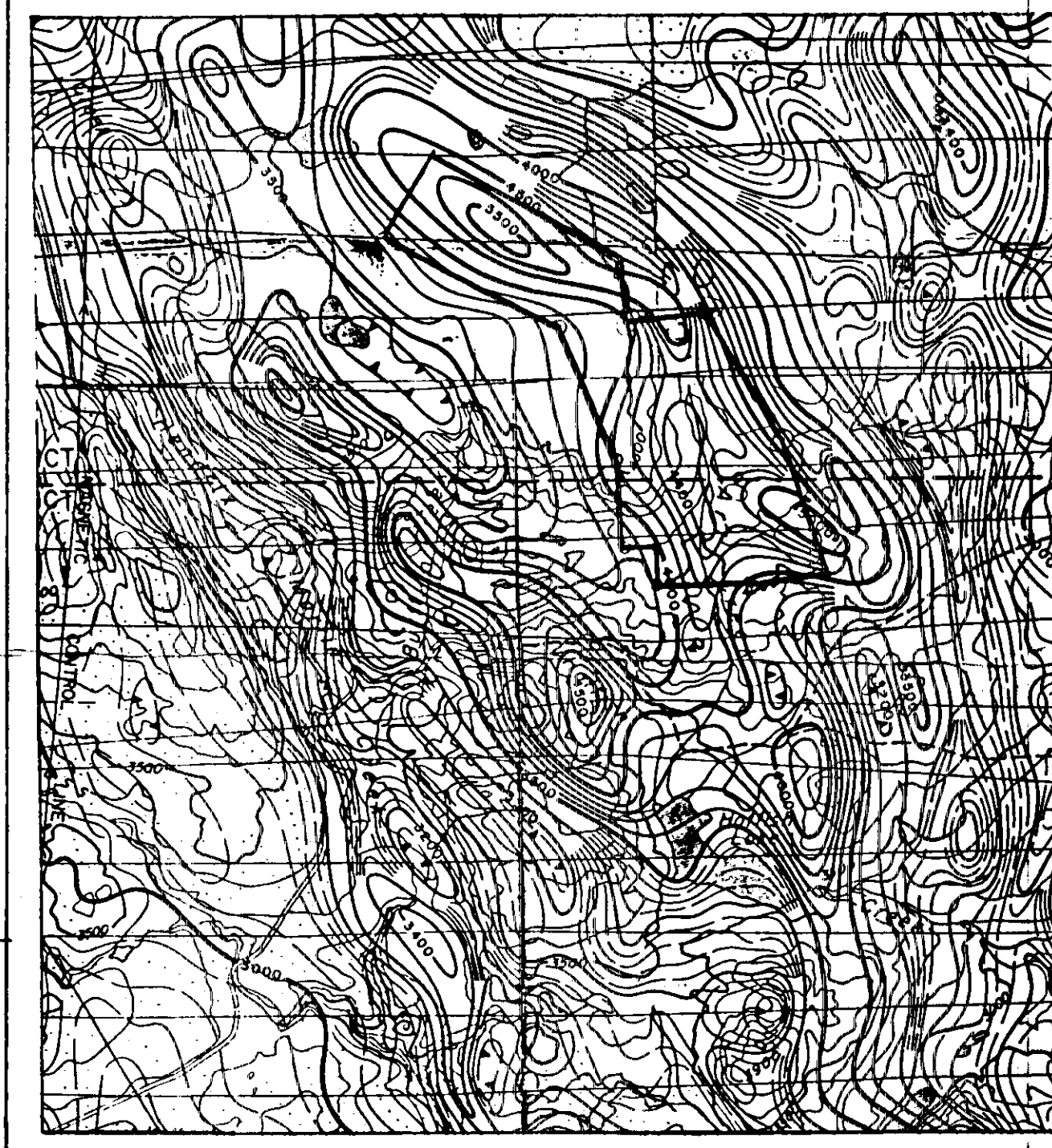
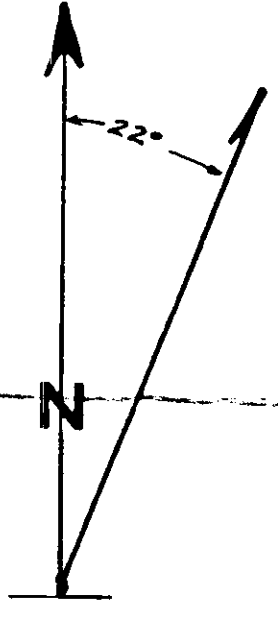
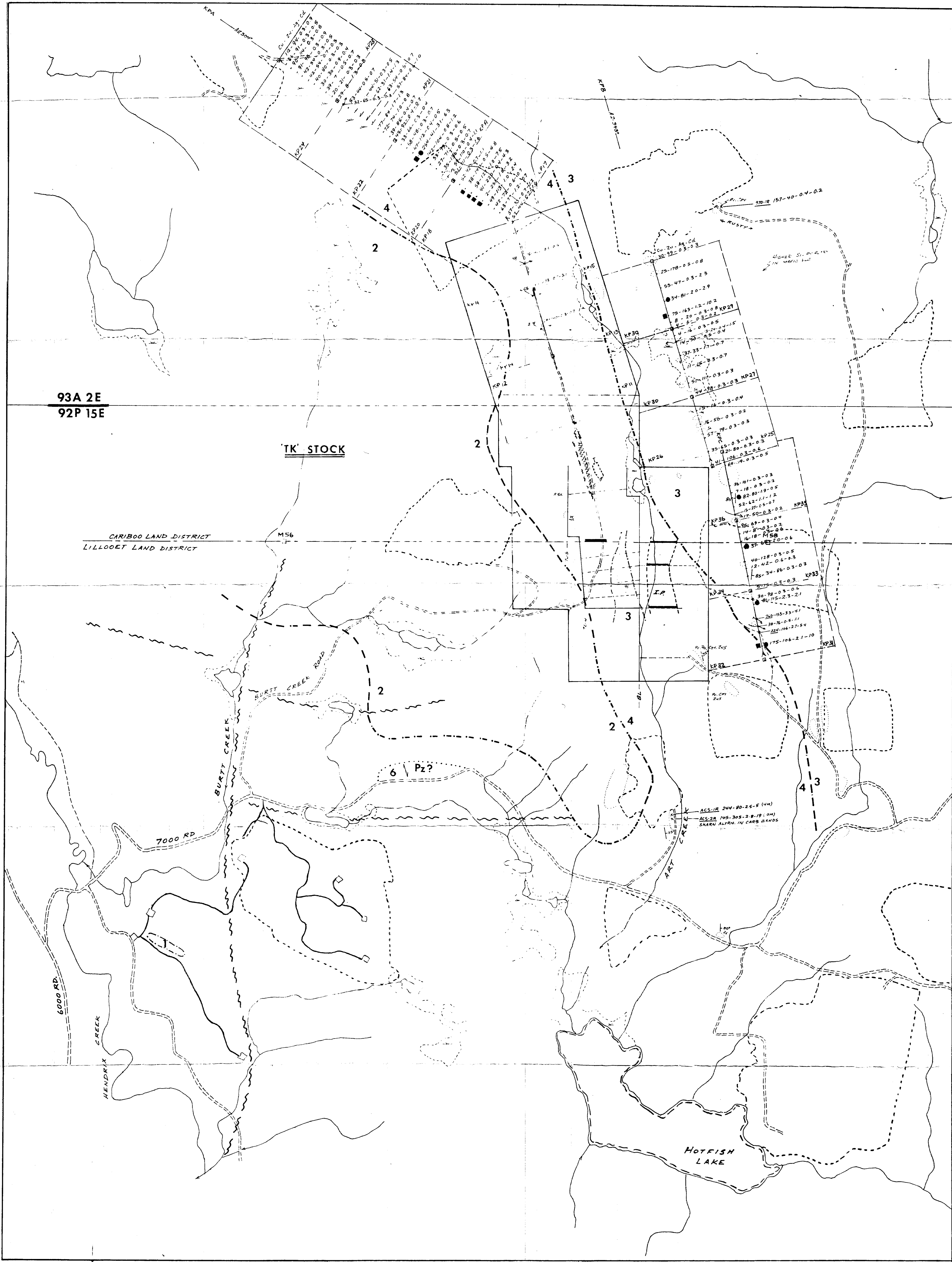
Wahl, Herb PROJECT KINGPIN File # 97-6133  
R.R. -4 S12 C4, Gibson BC VON 1V0

SAMPLE#	Mo ppm	Cu ppm	Pb ppm	Zn ppm	Ag ppm	Ni ppm	Co ppm	Mn ppm	Fe %	As ppm	U ppm	Au ppm	Th ppm	Sr ppm	Cd ppm	Sb ppm	Bi ppm	V ppm	Ca %	P %	La ppm	Cr ppm	Mg %	Ba ppm	Ti %	B ppm	Al %	Na %	K %	W ppm	Au* ppb
970-1R	4	157	3	40	.4	28	24	549	4.74	6	<8	<2	2	44	<.2	<3	<3	171	1.15	.175	6	29	1.32	108	.25	3	1.49	.14	1.08	3	2
970-2R	12	415	4	47	4.1	10	8	242	2.80	7	<8	<2	3	32	2.8	<3	<3	151	.50	.136	8	37	1.49	65	.24	5	1.56	.07	.51	4	17
970-3R	4	203	5	114	1.7	26	27	523	5.94	8	<8	<2	3	48	3.6	<3	<3	174	.87	.133	14	53	1.16	111	.26	<3	1.40	.09	.37	2	4
970-4R	2	400	<3	24	.9	10	6	118	1.55	2	<8	<2	4	16	.4	<3	4	102	.54	.124	10	28	.51	25	.22	<3	.73	.07	.27	2	6
970-5R	713	977	465	2039	13.3	60	18	1752	20.56	153	<8	3	4	7	120.3	133	36	20	.09	.058	4	9	.04	29	<.01	10	.29	.01	.18	<2	1450
970-6R	144	633	301	1522	9.8	29	3	343	20.19	194	<8	<2	4	5	78.7	102	15	18	.08	.106	2	5	.03	19	<.01	12	.24	.01	.18	<2	77
970-7R	137	1125	425	1153	13.9	41	10	1656	14.64	112	<8	<2	4	7	78.5	167	13	17	.07	.111	3	8	.04	26	<.01	10	.32	.01	.24	<2	118
RE 970-7R	137	1117	415	1150	13.9	41	9	1654	14.54	115	<8	<2	4	7	78.0	168	11	18	.07	.109	4	9	.04	33	<.01	9	.32	.01	.25	<2	105
970-8R	4	93	20	78	<.3	19	24	1179	7.23	19646	<8	<2	2	121	.9	677	4	58	1.94	.062	3	20	.21	136	<.01	6	.70	.02	.26	<2	80

ICP - .500 GRAM SAMPLE IS DIGESTED WITH 3ML 3-1-2 HCL-HNO3-H2O AT 95 DEG. C FOR ONE HOUR AND IS DILUTED TO 10 ML WITH WATER.  
THIS LEACH IS PARTIAL FOR MN FE SR CA P LA CR MG BA TI B W AND LIMITED FOR NA K AND AL.  
ASSAY RECOMMENDED FOR ROCK AND CORE SAMPLES IF CU PB ZN AS > 1%, AG > 30 PPM & AU > 1000 PPB  
- SAMPLE TYPE: ROCK AU\* - IGNITED, AQUA-REGIA/MIBK EXTRACT, GF/AA FINISHED.(10 GM)  
Samples beginning 'RE' are Reruns and 'RRE' are Reject Reruns.

DATE RECEIVED: OCT 15 1997 DATE REPORT MAILED: Oct 27/97 SIGNED BY: *C. Leong* D. TOYE, C. LEONG, J. WANG; CERTIFIED B.C. ASSAYERS

APPENDIX 6



**LEGEND**

- 1 QUARTZ FELDSPAR PORPHYRY, PYRITIC
  - 2 BIOTITE-HORNBLENDE QUARTZ MONZONITE
  - 3 MAFIC VOLCANICS
  - 4 ARGILLITE
  - 5 FELSIC VOLCANICS
  - 6 QUARTZ-BIOTITE-FELDSPAR GNEISS  
PALEOZOIC BASEMENT??
- ROAD, LANDING
  - CUT BLOCK AREA
  - SILT SITE Cu-Zn-Ag-Cd (PPM)
  - △ FLOAT SITE Cu-Zn-Ag-Cd (PPM)
  - x OUTCROP SITE Cu-Zn-Ag-Cd (PPM) (WIDTH)
  - GOSSAN ZONE
  - GRIL LINE I.P. ZONE
  - CLAIM LOCATION LINE 'KPA', ETC.
  - Cd ≥ 4.0 PPM
  - Ag ≥ 2.0 PPM
  - Assay order Cu-Zn-Ag-Cd

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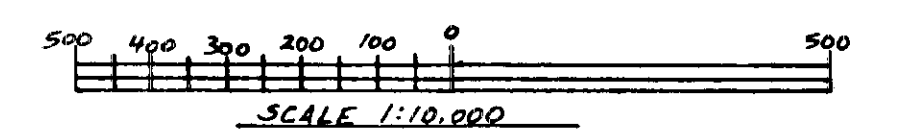
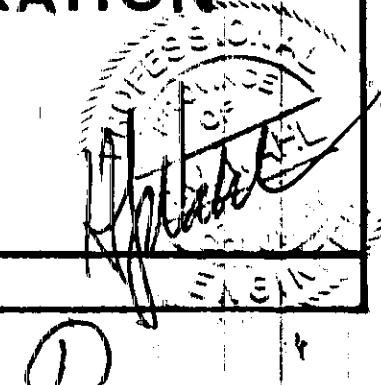


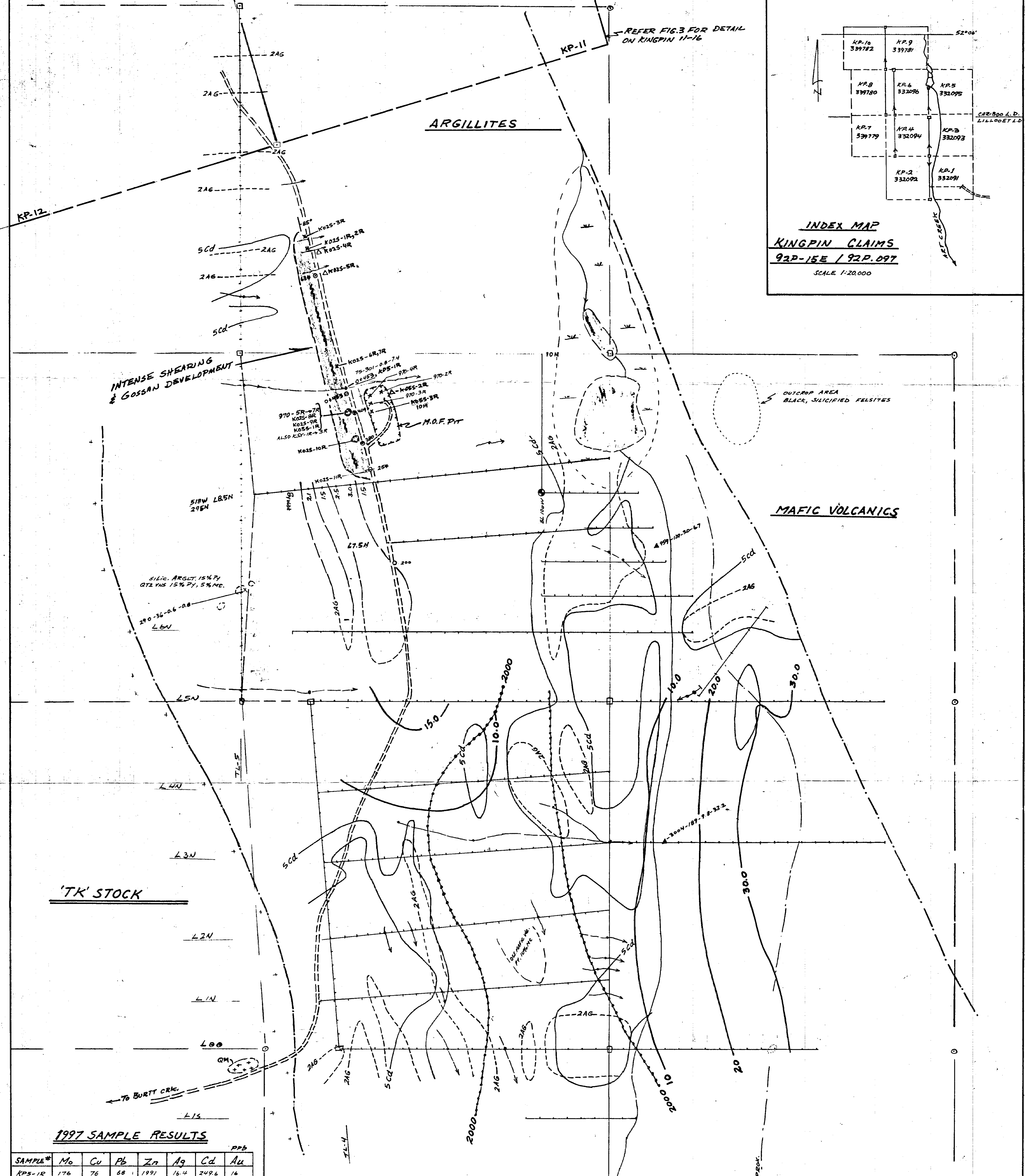
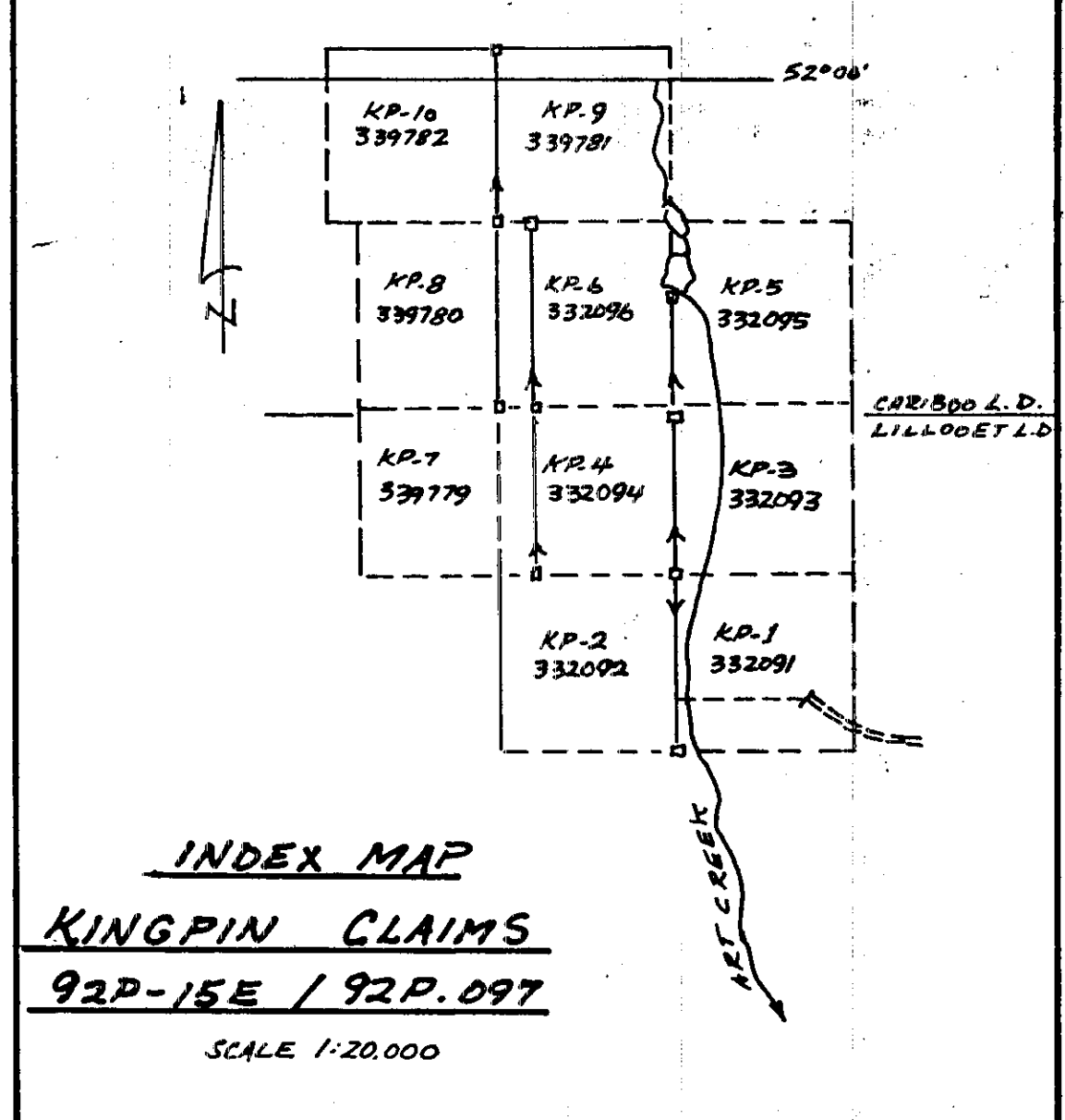
FIG. 3

KINGPIN & KINGPIN EXTENSION

RESULTS OF 1997 EXPLORATION







**1997 SAMPLE RESULTS**

SAMPLE#	Mo	Cu	Pb	Zn	Ag	Cd	Au
KPS-1R	176	76	68	1991	16.4	249.6	16
KPS-254	9	738	21	158	2.5	6.8	24
KPS-380	8	61	3	286	0.5	5.2	8
KPS-409	9	139	123	315	1.3	2.2	17
KPS-630	9	24	4	240	0.3	1.7	3
K025-1R	170	272	8	113	2.3	17.4	8
K025-2R	3	84	4	241	0.3	13.4	3
K025-3R	14	152	10	405	2.3	17.8	11
K025-4R	147	145	3	96	2.4	2.6	14
K025-5R	84	28	4	1378	11.6	144.3	5
K025-6R	30	86	514	759	13.9	62.5	87
K025-7R	21	113	215	825	8.6	72.4	83
K025-8R	4	26	21	48	0.8	2.4	48
K025-9R	142	435	272	815	8.5	50.3	310
K025-10R	79	350	10	521	4.0	133.5	17
K025-11R	12	648	15	118	8.4	9.2	21
K025-12R	81	42	32	645	8.2	54.6	10
K025-2R	20	287	12	48	9.7	1.5	47
K025-3R	12	289	45	662	8.6	14.3	10
K025-1R	9	483	5	89	2.0	2.3	21
K025-2R	179	83	12	1091	3.1	146.5	8
K025-3R	5	14	11	268	0.6	7.1	10
970-2R	12	415	4	47	4.1	2.8	17
970-3R	4	203	5	114	1.7	3.6	4
970-4R	2	400	3	24	0.9	0.4	6
970-5R	713	977	465	2039	13.3	120.3	1450
970-6R	1444	633	301	1522	9.8	78.7	77
970-7R	137	1125	425	1153	13.9	78.5	118

\* GOSSAN BOXWORKS SAMPLES  
 \* GOSSAN 'SOIL' SAMPLES

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**FIG. 4**  
**KINGPIN CLAIM GROUP**  
 CLINTON M.D.

GEO-COMPOSITE PLAN  
 Cd-Ag GEOCHEM VS I.P. SURVEY  
 UP-DATED SEPT-OCT 1997

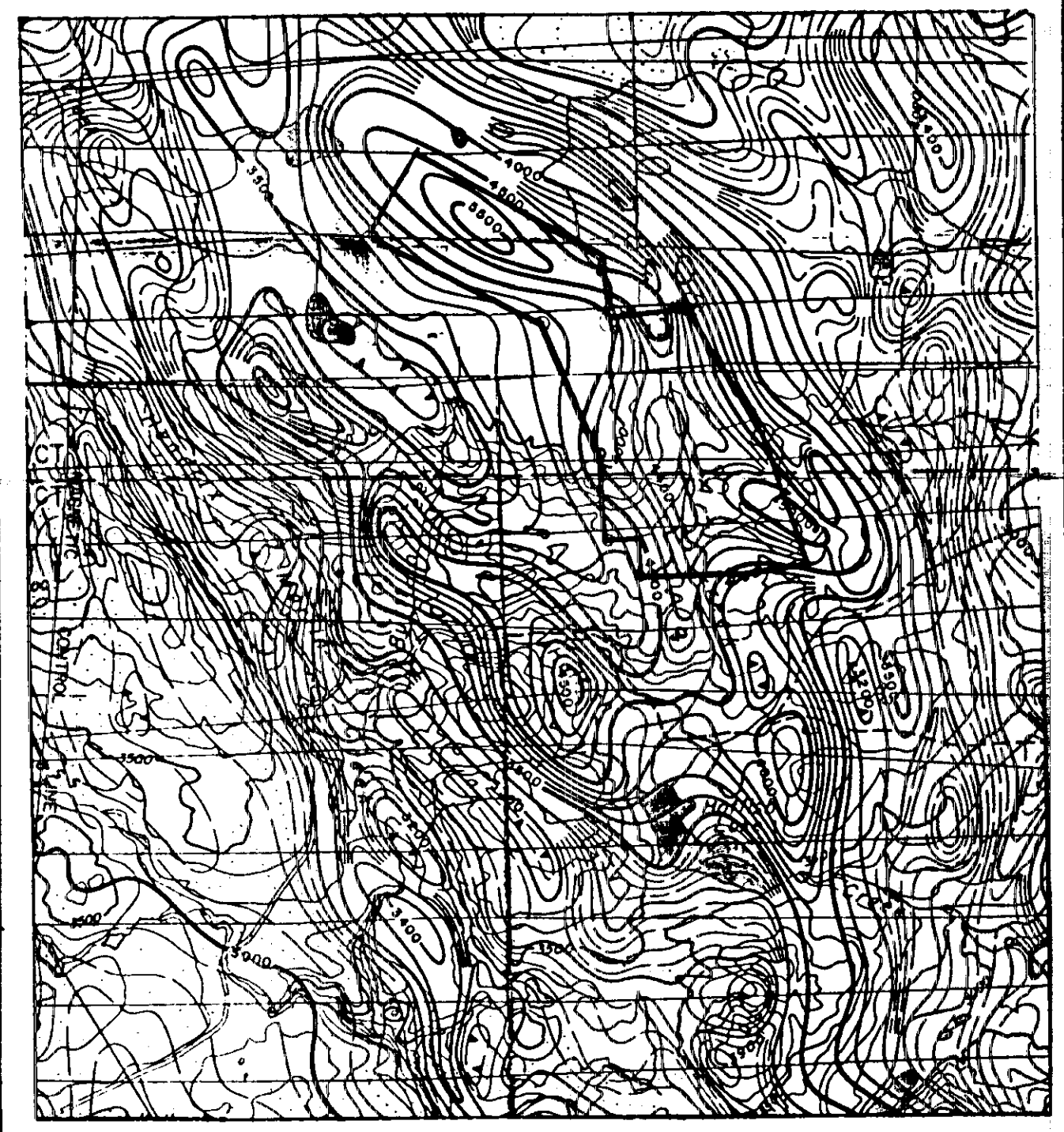
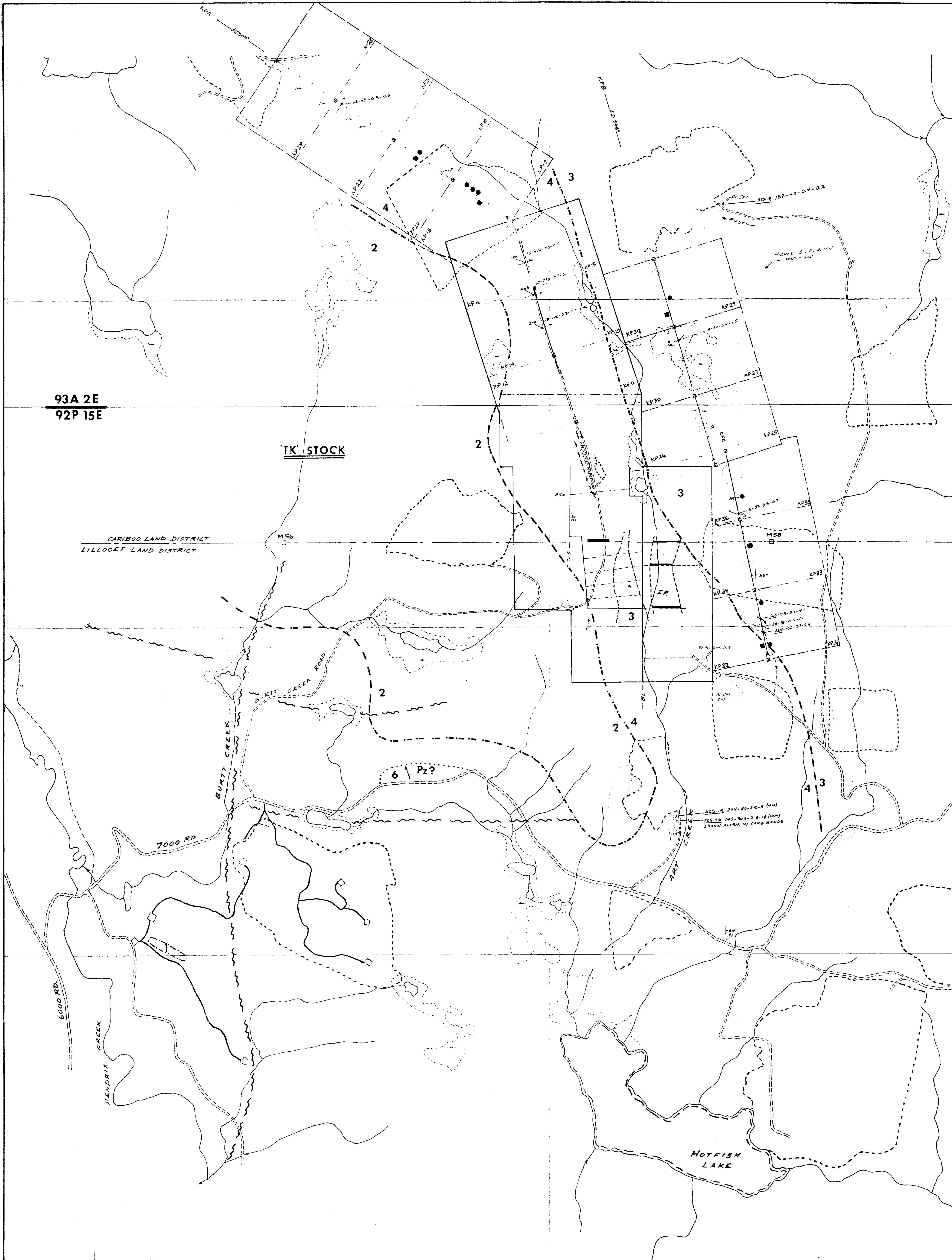
**I.P. DATA**

CHARGEABILITY CONTOURS  
 10-15-20-30 mV/VOLT  
 RESISTIVITY CONTOUR ≅ 2000 OHM METERS

SCd CADMIUM ≅ 5PPM  
 ZAG SILVER ≅ 2PPM

Δ FLOAT Cu-Zn-Ag-Cd  
 X OUTCROP - do -





**LEGEND**

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- ROAD LANDING
- CUT BLOCK AREA
- SILT SITE Cu-Zn-Ag-Cd (PPM)
- FLDAT SITE Cu-Zn-Ag-Cd (PPM)
- X OUT-ROD SITE Cu-Zn-Ag-Cd (PPM) (WIDTH)
- GOSSAN ZONE
- GRID LINE I.P. ZONE
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GEOLOGICAL SURVEY BRANCH  
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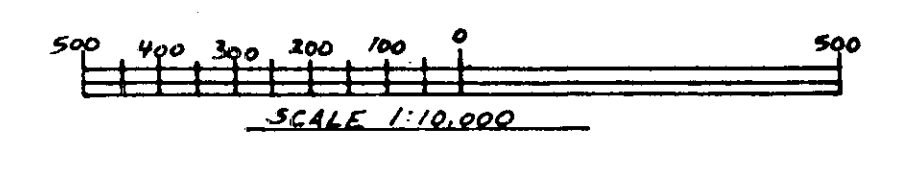
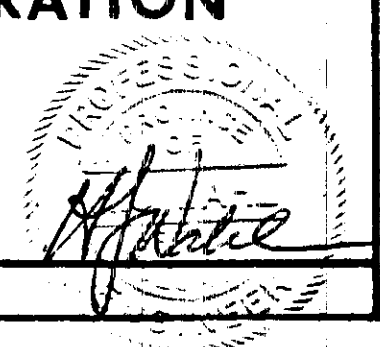


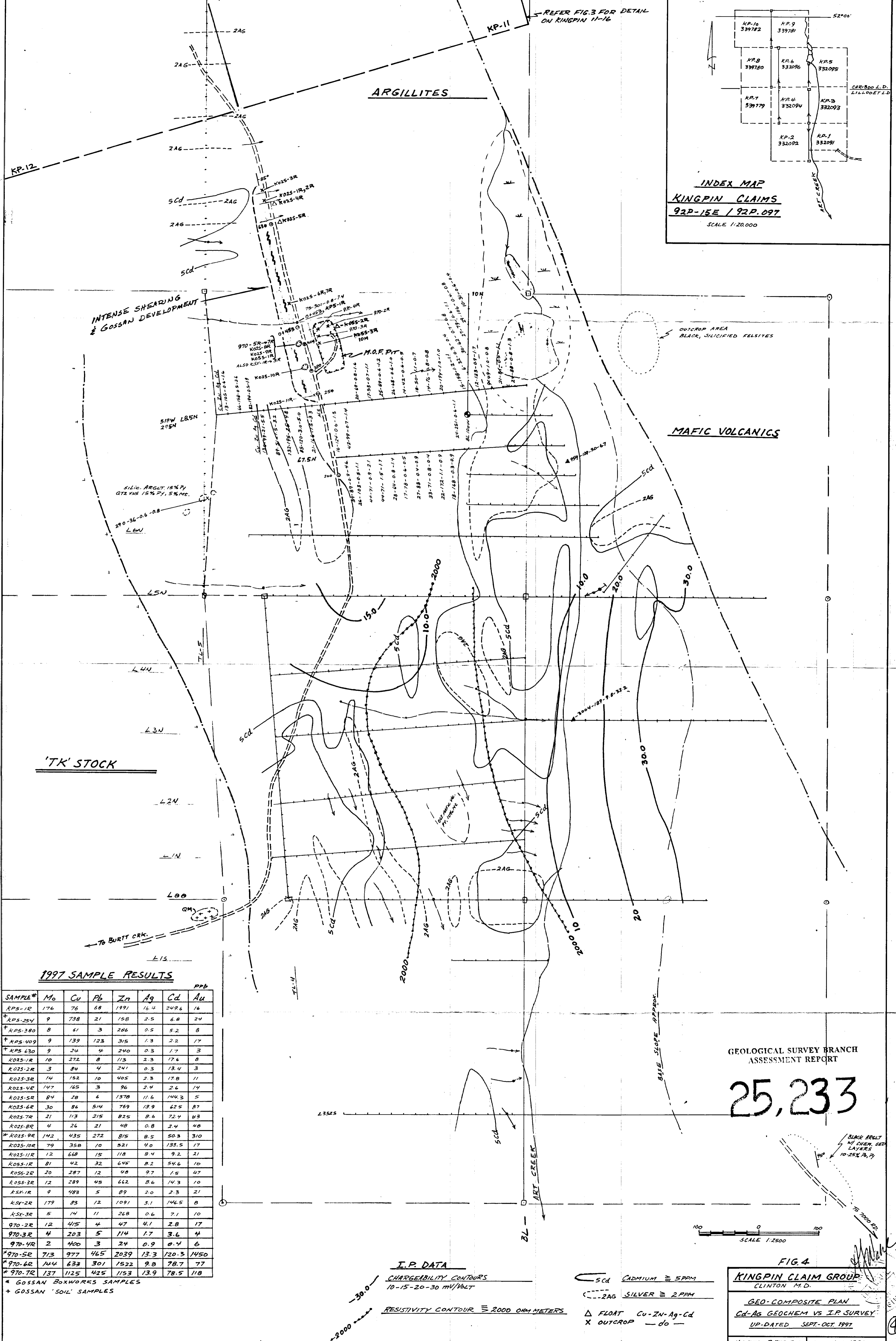
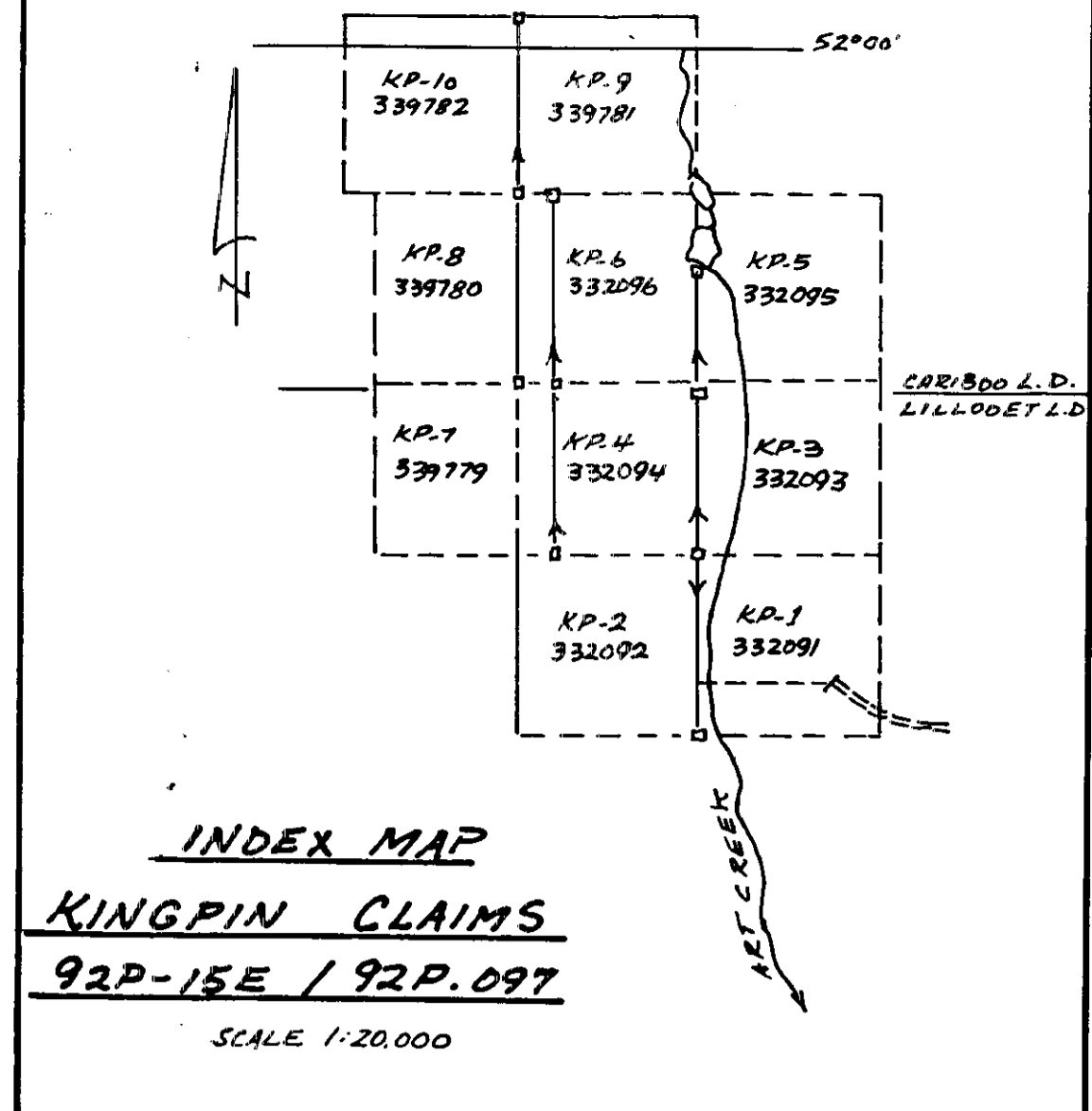
FIG.3

KINGPIN & KINGPIN EXTENSION

RESULTS OF 1997 EXPLORATION







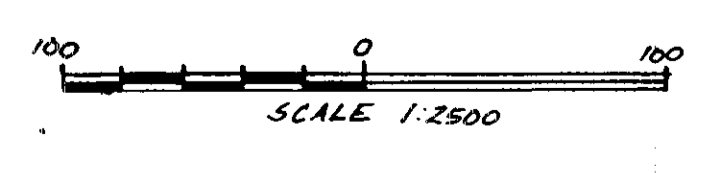
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**GEOLOGICAL SURVEY BRANCH ASSESSMENT REPORT**

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RESISTIVITY CONTOUR = 2000 OHM METERS

SCD CADMIUM = 5PPM  
2AG SILVER = 2PPM  
△ FLOAT Cu-Zn-Ag-Cd  
X OUTCROP - do -

**FIG. 4**

**KINGPIN CLAIM GROUP**  
CLINTON M.D.  
GEO-COMPOSITE PLAN  
Cd-Ag GEOCHEM VS I.P. SURVEY  
UP-DATED SEPT-OCT. 1997  
H. WAHL, P. ENG. B.C. OCT-NOV. 1996