86-5-14416

GEOLOGICAL, GEOPHYSICAL AND GEOCHEMICAL REPORT

KC 1 and 2 CLAIMS

Latitude 56°30'North
Longitude 126°05.5' West

OMINECA MINING DIVISION
BRITISH COLUMBIA

NTS 94D/8E, 9E

14,416

for

Owner/Operator: SUNCOR INC.
RESOURCES GROUP
P.O. Box 38, 500 - 4 Ave. S.W.
CALGARY, ALBERTA
T2P 2V5

Golden Rule Resources Ltd.
150-1300-8th St. S.W.
Calgary, Alberta
T2R 1B2

by

Donald B. Cross, B.Sc.

December, 1985

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SUMMARY

Between June 26 and August 10, 1985 a 7 man crew spent 40 man-days in assessing the KC claims.

The KC 1 and 2 claims were optioned from Golden Rule Resources Ltd. by Suncor Inc., in June, 1985.

The work carried out on these claims was included as part of a larger regional exploration program of Golden Rule and Suncor lands.

Grid extensions, soil and rock sampling, VLF and magnetic surveys were completed on the claims during this period.

Anomalous values in Au, Ag, As and Cu were encountered. Maximum values returned are as follows:

Au(oz/ton)	Ag(oz/ton)	As(ppm)	Cu(ppm)
0.210	1.08 (approx)	2,000	2,600

Three weak VLF anomalies were recorded which are related to local structure rather than bedrock conductors.

Magnetic surveying confirms this interpretation. Numerous pods of magnetic material were outlined by the survey. Geological mapping indicates these bodies to be stratabound magnetite horizons.

LOCATION AND ACCESS

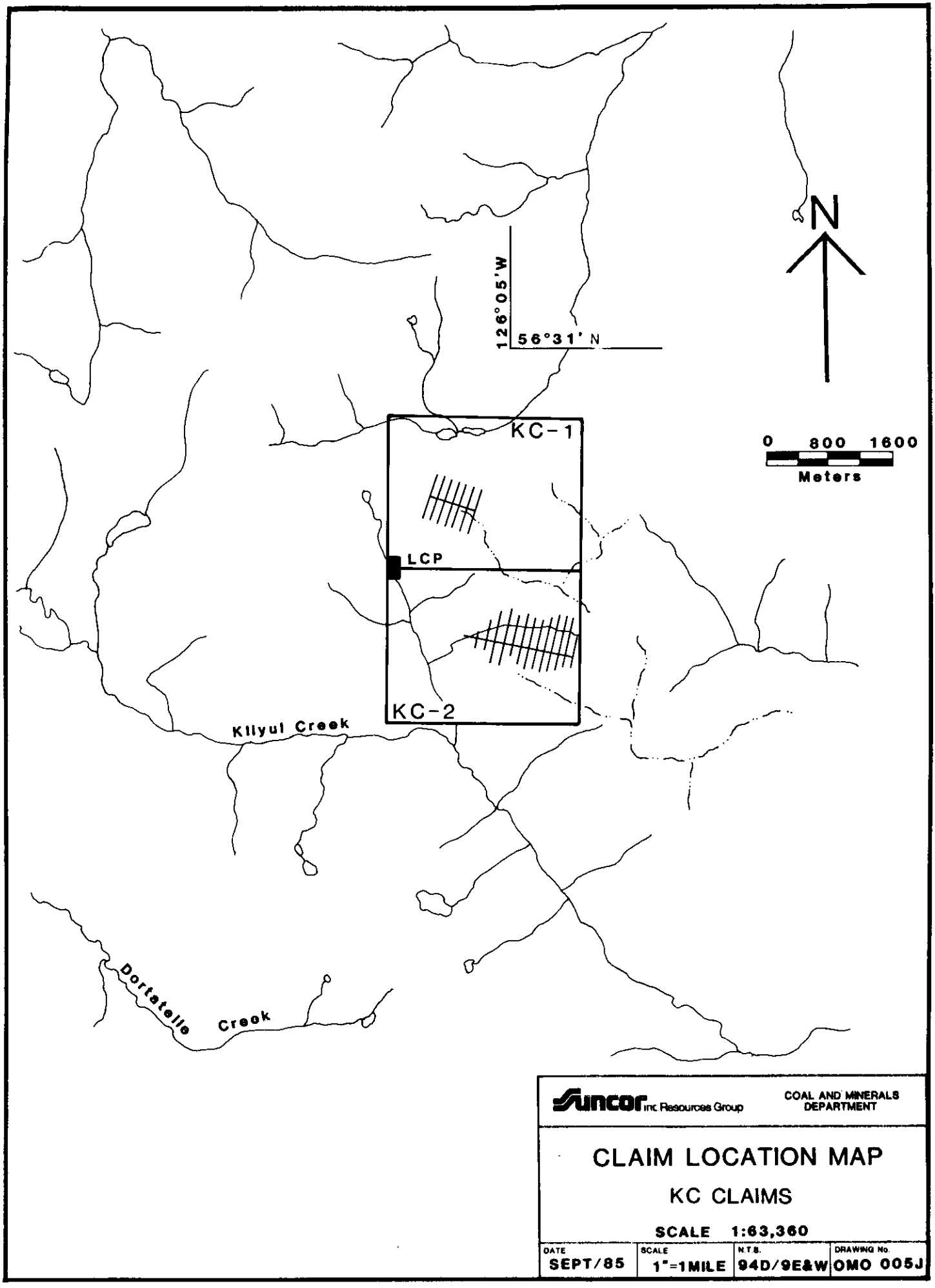
The KC 1 and 2 claims are located in the Omineca Mining Division, 215 km NNE of Smithers and 360 km NW of Prince George, B.C. at the headwaters of Kliyul Creek. The approximate geographic co-ordinates of the claim group are 56°30'N latitude and 126°05'W longitude. The claims are well located with respect to local infrastructure. The Omineca Development Road, which will be upgraded to provide road access to the Serem property in the Toodoggone Valley, lies 8 km north of the claims. A rough airstrip located 12 km to the northwest at Johanson Lake is suitable for small, wheel-equipped aircraft. Northern Mountain Helicopters maintains a summer base at Johanson Lake.

PROPERTY AND OWNERSHIP

The claims are jointly owned by Golden Rule Resources Ltd. and Suncor Inc.

CLAIM	UNITS	RECORD NUMBER	DATE OF RECORD
KC 1	20	2694	April 8, 1980
KC 2	20	2694	April 8, 1980

Suncor Inc. is in the process of earning a 55% undivided interest in the claims.



Suncor Inc. Resources Group

COAL AND MINERALS DEPARTMENT

CLAIM LOCATION MAP

KC CLAIMS

SCALE 1:63,360

DATE	SCALE	N.T.S.	DRAWING No.
SEPT/85	1"=1MILE	94D/9E&W	OMO 005J

PHYSIOGRAPHY AND GLACIATION

The claims lie within the Omineca Mountains physiographic subdivision of the Interior Plateau. The entire region has been subjected to glaciation and is characterized by wide U-shaped drift-filled valleys and deeply cut V-shaped upland valleys. Mountain peaks average 2000 metres above sea level and rise abruptly from the major valleys.

PREVIOUS WORK

(After Wilson, 1984)

The claims encompass the 'Banjo' and 'Independence' occurrences, first worked in the late 1940's. Early work consisted of a series of trenches and open cuts along quartz vein systems in tuff, breccia, and hornblende porphyry flows of the Takla Group volcanics.

Subsequent work carried out in the area (KLI claims) by Kennco Exploration and Sumac Mines Ltd. during 1970-1974 included detailed stream silt and soil sampling, induced polarization and ground magnetic surveying and drilling. Most of the work was done outside the current area of interest.

Work carried out by MP Minerals on the BAP claims (1974-76) consisted of soil sampling, detailed mapping, ground magnetic and electromagnetic surveying, and trenching over a small grid to evaluate a strongly sheared zone hosting a number of narrow quartz-chalcopyrite stringers. This grid was located within the current KC claim group but some distance from the Au/Ag quartz veins discovered by Golden Rule in 1981.

Work carried out in 1981 consisted of helicopter-supported reconnaissance geological mapping, prospecting, rock and stream silt geochemical sampling. The objectives were to locate and evaluate several known previous metal occurrences located within the claim group and to provide a preliminary assessment of the precious metals potential as a whole.

The stream silt sampling outlined a 600 metre long Au-in-silt anomalous zone along Kliyul Creek. Potentially economic values, up to 36,400 ppb Au (1.062 oz/ton), were obtained from samples collected from the prominent quartz vein system transecting the central region of the KC 1 claim.

In 1984, Golden Rule carried out helicopter-supported reconnaissance rock and stream silt geochemical sampling, prospecting, geological mapping, and ground magnetometer surveying with a four-man crew.

Follow-up work on the KC 1 claim included the establishment of a 2.5 line-km grid on which ground magnetic surveying and restricted geological mapping was carried out.

A total of 25 stream silt samples was collected at 100 metre intervals along previously unsampled creeks. Twenty seven (27) rock samples were collected from stream locations where anomalous Au/Ag-in-silt anomalies were known to exist.

The 'Banjo' and 'Independence' Cu/Au/Ag occurrences were re-examined by mapping and sampling. Six (6) rock samples were collected in the vicinity of these occurrences.

1985 EXPLORATION PROGRAM

The current program focussed on detailed examination of the KC2 claim in its extreme southeastern corner.

Grid rehabilitation and extension, geological mapping, soil and rock sampling and VLF and magnetic surveys were carried out by the field crew.

A Summary of Expenditures relating to this work follows.

Sufficient work was accomplished to advance the renewal dates of the claims by 3 years to 1989.

1985 EXPENDITURES

PERSONNEL

C. Hartley	geologist	5 day x 135.50	$ 677.50
A. Smith	geologist	7 day x 135.50	948.50
W. Fisher	prospector	8 day x 123.72	989.76
I. Simpson	geological assistant	3 day x 72.49	217.47
S. Scott	geological assistant	5 day x 71.49	357.45
M. McDonagh	cook	8 day x 109.80	878.40
B. Dale	Geological assistant	4 day X 60.88	243.52

TRANSPORTATION

Fixed wing support mob-demob prorated	1,554.39
Fixed wing support direct costs	323.95
Helicopter - (Northern Mountain) 19.2 hrs @ $475/hr	9,020.00
Travel expenses prorated	709.10

CAMP SUPPORT

36 man-days @ $50/day	1,800.00

GEOCHEMICAL ANALYSIS

152 soil samples for Au, Ag, As, Cu, Pb, Zn@15.15/ea	2,302.00
76 rock samples for Au, Ag, As @ $15.10/ea	1,147.60
17 rock samples (fire assay) Au, Ag @ $11.30/ea	192.10
3 rock samples for Cu, Pb, Zn @ $6.30/ea	18.90

POST FIELD

Data plotting & report writing 6 days @ $186/day	1,116.00
Drafting 45 hrs x $25/hour	1,125.00
Reproduction	80.00
Secretarial 2 days x $150/hour	300.00
	24,001.64

GEOLOGY

The KC 1 and 2 claims are underlain by intercalated andesite tuffs, greywacke and calcareous argillite beds of the Takla Group rocks of Upper Triassic age. These rocks are intruded by Cretaceous age Omineca intrusions of hornblende feldspar porphyry.

The volcanic units contain stratiform deposits of magnetite which are well expressed on the regional aeromagnetic map and the magnetic survey carried out on the grid. A large regional magnetic high extends to the southeast away from the KC claims themselves as shown on Geophysical Map 5271G (1972). Regional mapping by other companies in the past has outlined large stratiform bodies of magnetite associated with anomalous values in copper.

The overall setting of the host volcanics is one of an exhalitive environment under submarine to subaerial conditions. Sedimentary rocks on the claim group contain appreciable amounts of carbonate in the matrix.

In addition to carbonate alteration the host rocks have been locally subjected to propylitic and phyllic alteration characterized by the presence of chlorite, epidote, silica, sericite and clay.

	Au(ppm)	Au(oz/t)	Ag(ppm)	Ag(oz/t)	As(ppm)	Cu(ppm)
KC-2136	2228	0.119	6.6			
KC-2151	5484	0.210	14.5	0.37	100	
KC-2161	1714	0.050	5.6	0.10	100	
KC-2161		0.003	1.2		800	2600
KC-2163		0.003	4.0		2000	943
KC-2180	1885	0.071	2.2	0.04	100	
KC-2186	2057	0.064	3.1	0.05	100	

These results represent maximum values obtained for the respective elements. In each case mineralization is associated with quartz-carbonate alteration in volcanics or their locally derived metasedimentary equivalents.

Anomalous values are associated with sulphides, particularly pyrite, in the various forms of cubic crystals, disseminations, veinlets and stringers of semi-massive pyrite.

Quartz-carbonate mineral assemblages have invaded shear zones (sample 2135), fractured magnetite iron formation (sample 2141), fine grained intrusives (sample 2137) and porous volcanogenic limestone (sample 2161). The majority of anomalous samples are hosted by sheared andesite tuff and related basic volcanics (samples 2136, 2143, 2145, 2146, 2148.).

Shear zones and gossans are found to trend in two basic directions 145° and 080° which coincide with the structural grain of the general area. The 145° direction is related to the general strike of the enclosing rocks whereas the 080° direction is indicative of cross-fractures.

The areal extent of the geological mapping was limited by the persistence late into the summer of a heavy snow pack. Snow-covered areas are marked on the geological map.

GEOCHEMISTRY

A total of 149 soil samples, from the KC2 grid, was taken and submitted to Apex Laboratories in Calgary for analysis. Detailed descriptions of analytical procedures for each element are described in the Appendix. Semi-quantitative analyses were carried out for As to determine levels above 100 ppm. No result is reported if As values fall below this level.

Sampling was carried out on the extended grid in an attempt to tie together the anomalous values from rock sampling. Where possible a sample was taken below the leached soil level on lines 100 metres apart. Sample intervals were maintained at 50 metres where a suitable location was found.

On the KC 2 grid no strong linear Cu soil anomalies are readily apparent. Isolated high values do occur but are spread in a seemingly random fashion on the grid probably reflecting the "pod" like nature of the mineralization.

Consistent, high Cu values are recorded in the "break in slope" soil sampling traverse immediately south of the KC 2 grid. This is likely due to hydromorphic transport from the anomalous areas located topographically above this soil line. Further to the west along this soil sample line the Cu values decrease probably because these locations are further removed from the mineralized area on the grid.

Pb shows no real increase over large areas of the grid, the maximum value attained being 41 ppm on the "break in slope" soil traverse.

Zn attains a maximum value of 200 ppm on the grid at L0+00 station 1+00N. Because of the relatively high mobility of Zn in the surface environment this anomaly is likely not located near its bedrock source.

Au values are generally elevated throughout the entire survey area. No readily distinguishable linear patterns emerge from the data. It is interesting to note that the anomalous Au values persist over the entire length of the westerly flowing stream whereas the anomalous Cu values terminate or become more scattered at the western end of the grid sampling. This tends to support the interpretation that an easterly striking fault underlies the creek bed in the grid area. The Au values are likely associated with the fault whereas the Cu values are attributed to localized pods of sulphide.

Ag values reach a maximum value of 1.2 ppm on the soil traverse line south of the grid between lines 0+00 and 1+00W.

GEOPHYSICS

On the KC-2 grid 9.0 line kilometers of magnetic and VLF surveys was completed.

The magnetic survey was carried out with a Scintrex MP-2 proton procession magnetometer.

Initially, the base line is read at each cross line and all values corrected for diurnal variation. When each successive grid line is read a correction to each line's readings is made at the baseline. This procedure is carried out until the entire grid has been read in this fashion.

A northwesterly trending magnetic horizon with peak values of 800 gammas was identified by the magnetic survey. This trend reflects the presence of a stratiform horizon of exhalitive magnetite iron formation lying at or near the surface. This horizon is characterized in bedrock either as conformable pods or structurally disrupted magnetite blocks. The prevailing direction of cross-faulting in the magnetite horizon is approximately 090°.

The eastern portion of the KC 2 grid is characterized by rocks of much lower magnetic susceptibility in the 0 to 100 gamma range (above a base of 58,000 gammas total field).

The VLF-EM survey was carried out with a Geonics EM-16 unit. This instrument measures the distortion of electromagnetic waves in the vicinity of conductive bodies, rock contacts and sometimes local topography.

Very weak cross-overs were recorded on the KC-2 grid survey. One readily definable weak cross-over of 5% occurs beginning at L4+00W, 1+00N and trending in an easterly direction to L2+00W, 3+00N. This anomaly is related to a structural feature which occupies the creek valley on the KC-2 grid. Its location is also confirmed by the magnetic survey where a definite east-west disruption in the contours occurs between L4+00W, 1+00N and L1+00W, 3+00N.

A weaker anomaly trends southeast, with the regional strike of the rocks, from L11+00W, 2+00S to L8+00W, 2+50S. This anomaly may simply reflect a lithology change between the magnetite iron formation and the enclosing rocks.

CONCLUSIONS

Anomalous values in Cu and Au were recorded in rocks and soils taken from the KC-2 grid. With the limited amount of work carried out to date it appears that these values are related to sulphide mineralization whose location is structurally controlled. Anomalous values are found in all rock types in quartz-carbonate alteration zones associated with late stage development of shearing both along and across strike.

Testing of the continuity of mineralization is required and would best be accomplished using a small portable drill.

RECOMMENDATIONS

1. Geochemical and geological coverage of the entire grid should be accomplished. Expansion of the grid to cover a larger area should be considered when the first phase of work has been completed.

2. Detailed follow-up of local stream sediment sampling should be carried out to identify and additional mineralized areas.

3. Magnetic coverage of any expanded grid would be useful in outlining extensions of existing known structures and for detailing the magnetite horizon.

4. Trench sampling and/or diamond drilling of selected bedrock locations should be carried out to test for continuity and grade of mineralization contained in late stage shear zones.

REFERENCES

WILSON, G.L. (1984) Golden Rule Resources Ltd., Report by Taiga Consultants Limited, KC 1 and Mineral Claims, Geological, Geochemical and Geophysical Report.

AUTHOR'S QUALIFICATIONS

I, Donald Cross, of the City of Calgary, Alberta do hereby certify that;

1. I hold a (Honours) Bachelor of Science Degree, 1974, Brock University.

2. I have practised my profession for more than 11 years.

3. I personally supervised the field crew carrying out mineral exploration work detailed in the attached report.

4. I am employed by Suncor Inc. as a Minerals Geologist.

Dated at Calgary, Alberta this 16th day of December, 1985.

D.B. Cross

Donald B. Cross

ANALYTICAL RESULTS

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.
.    64 LINE(S) FOUND OUT OF 218 LINES
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.THRU
*                KC2198
.  .  .
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*  .    .    .NUMBER.AA  PPB.FAA OZS.AA  PPM.FAA OZS.AA  PPM.AA  PPM.FAA PCT
*==.======.====.=======.=======.=======.=======.=======.=======.=======.=======.
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..... END REPORT .....

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50	04485	KC8019	38	0.2	100	54
50	04485	KC8020	29	0.2	100	125
50	04485	KC8021	68	0.4	100	116
50	04485	KC8022	58	0.3	100	88
50	04485	KC8023	24	0.4	100	58
50	04485	KC8024	91	0.3	100	120

50	04485	KC8025	55	0.4	100	113
50	04485	KC8026	96	0.2	100	122
50	04485	KC8027	84	0.3	100	106
50	04485	KC8028	34	0.1	100	78
50	04485	KC8029	60	0.3	100	72
50	04485	KC8030	19	0.1	100	104
50	04485	KC8031	96	0.3	100	118
50	04485	KC8032	36	0.2	100	96
50	04485	KC8033	19	0.2	100	50
50	04485	KC8034	58	0.5	100	140
50	04485	KC8035	24	0.8	100	30
50	04485	KC8036	12	0.1	100	48
50	04485	KC8037	14	0.3	100	269
50	04485	KC8038	18	0.4	100	126
50	04485	KC8039		0.5	100	876
50	04485	KC8045	38	0.2	100	168
50	04485	KC8046	5	0.2	100	32
50	04485	KC8047		0.3	100	46
50	04485	KC8048	98	0.7	100	205
50	04485	KC8049	101	0.6	100	179
50	04485	KC8050	5	0.3	100	22
50	04485	KC8051	5	0.4	100	50
50	04485	KC8052	125	0.3	100	61
50	04485	KC8053	29	0.5	100	38
50	04485	KC8054	43	0.3	100	76
50	04485	KC8055	50	0.5	100	588
50	04485	KC8056	600	1.3	100	578
50	04485	KC8057	24	0.4	100	369
50	04485	KC8058	21	0.3	100	66
50	04485	KC8059	9	0.1	100	26
50	04485	KC8060	12	0.1	100	46
50	04485	KC8061	171	0.8	100	302
50	04485	KC8062	41	0.9	100	164
50	04485	KC8063	5	0.1	100	34
50	04485	KC8064	5	0.1	100	40
50	04485	KC8065	10	0.2	100	76
50	04485	KC8066	19	0.3	100	86
50	04485	KC8067	139	0.8	100	663
50	04485	KC8068	5	0.1	100	15
50	04485	KC8069	394	1.8	100	1630
50	04485	KC8070	205	1.2	100	257
50	04485	KC8071	12	0.8	100	78
50	04485	KC8072	70	0.6	100	132
50	04485	KC8073	17	0.8	100	606
50	04485	KC8074	38	0.9	100	527

***** END REPORT *****

64 LINE(S) FOUND OUT OF 218 LINES

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KC2135

THRU

KC2198

DATE 26 NOV 85 13:11:10 RIO 90 26 NOV 85 MINERL

CHEMICAL LAB ANALYSIS REPORT FOR PROJECT:KC 1 AND 2 CLAIMS LAB : APX (TYPE F)

RS.	PRJYR	ROCK.	SAMPLE.	PB NUMBER.	AA PPM.	ZN AA	PPM.						
80	04485		KC2135										
80	04485		KC2136										
80	04485		KC2137										
80	04485		KC2138										
80	04485		KC2139										
80	04485		KC2140										
80	04485		KC2141										
80	04485		KC2142										
80	04485		KC2143										
80	04485		KC2144										
80	04485		KC2145										
80	04485		KC2146										
80	04485		KC2147										
80	04485		KC2148										
80	04485		KC2149										
80	04485		KC2150										
80	04485		KC2151										
80	04485		KC2152										
80	04485		KC2153										
80	04485		KC2154										
80	04485		KC2155										
80	04485		KC2156										
80	04485		KC2157										
80	04485		KC2158										
80	04485		KC2159										
80	04485		KC2160										
80	04485		KC2161										
80	04485		KC2162		17		51						
80	04485		KC2163		19		108						
80	04485		KC2164										
80	04485		KC2165										
80	04485		KC2166										
80	04485		KC2167										
80	04485		KC2168										
80	04485		KC2169										
80	04485		KC2170										
80	04485		KC2171										
80	04485		KC2172										
80	04485		KC2173										
80	04485		KC2174										
80	04485		KC2175										
80	04485		KC2176										
80	04485		KC2177		16		53						
80	04485		KC2178										
80	04485		KC2179										
80	04485		KC2180										

80	04485	KC2181
80	04485	KC2182
80	04485	KC2183
80	04485	KC2184
80	04485	KC2185
80	04485	KC2186
80	04485	KC2187
80	04485	KC2188
80	04485	KC2189
80	04485	KC2190
80	04485	KC2191
80	04485	KC2192
80	04485	KC2193
80	04485	KC2194
80	04485	KC2195
80	04485	KC2196
80	04485	KC2197
80	04485	KC2198

***** END REPORT *****

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. 152 LINE(S) FOUND OUT OF 218 LINES
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*50
. . .
.DATE 26 NOV 85 13:11:10 RID 90 26 NOV 85 MINERL
*CHEMICAL LAB ANALYSIS REPORT FOR PROJECT:XC 1 AND 2 CLAIMS LAB : APX (TYPE F)

*RS.	PRJYR	ROCK.	SAMPLE.NUMBER.	PB AA PPM.	ZN AA PPM.
50	04485		KC4105	10	56
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50	04485		KC4109	11	62
50	04485		KC4110	6	48
50	04485		KC5212	5	44
50	04485		KC5213	4	38
50	04485		KC5214	10	69
50	04485		KC5215	5	58
50	04485		KC5216	10	59
50	04485		KC5217	10	68
50	04485		KC5218	12	71
50	04485		KC5219	6	78
50	04485		KC5220	6	62
50	04485		KC5221	5	77
50	04485		KC5222	4	68
50	04485		KC5223	10	65
50	04485		KC5224	6	41
50	04485		KC5225	10	52
50	04485		KC5226	7	34
50	04485		KC5227	14	60
50	04485		KC5228	7	36
50	04485		KC5229	10	48
50	04485		KC5230	8	69
50	04485		KC5231	13	54
50	04485		KC5232	10	55
50	04485		KC6175	5	36
50	04485		KC6176	8	38
50	04485		KC6177	5	33
50	04485		KC6178	3	28
50	04485		KC6179	6	55
50	04485		KC6180	6	48
50	04485		KC6181	5	52
50	04485		KC6182	5	76
50	04485		KC6183	4	116
50	04485		KC6184	15	54
50	04485		KC6185	18	60
50	04485		KC6186	12	70
50	04485		KC6187	14	60
50	04485		KC6188	30	81
50	04485		KC6189	16	55
50	04485		KC6190	14	51
50	04485		KC6191	21	47
50	04485		KC6192	15	62
50	04485		KC6193	12	38
50	04485		KC6194	15	60
50	04485		KC6195	16	48

50	04485	KC6196	11	35
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50	04485	KC6198	9	38
50	04485	KC6199	13	51
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50	04485	KC6201	13	66
50	04485	KC6202	10	35
50	04485	KC6203	12	60
50	04485	KC6204	19	51
50	04485	KC6205	18	83
50	04485	KC6206	10	43
50	04485	KC6207	14	61
50	04485	KC6208	13	48
50	04485	KC6209	16	46
50	04485	KC6210	15	189
50	04485	KC6211	12	56
50	04485	KC6212	11	55
50	04485	KC6213	16	63
50	04485	KC6214	15	72
50	04485	KC6215	9	58
50	04485	KC6216	13	68
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50	04485	KC6218	12	61
50	04485	KC6219	16	124
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50	04485	KC6221	9	145
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50	04485	KC6223	10	137
50	04485	KC6224	15	138
50	04485	KC6225	14	197
50	04485	KC6226	14	167
50	04485	KC7000	19	1050
50	04485	KC7001	18	398
50	04485	KC7002	16	74
50	04485	KC8000	11	64
50	04485	KC8001	8	83
50	04485	KC8002	27	73
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50	04485	KC8007	12	43
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50	04485	KC8010	8	31
50	04485	KC8011	14	62
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50	04485	KC8015	11	68
50	04485	KC8016	11	64
50	04485	KC8017	9	69
50	04485	KC8018	6	52
50	04485	KC8019	6	49
50	04485	KC8020	18	65
50	04485	KC8021	6	30
50	04485	KC8022	14	66
50	04485	KC8023	11	37
50	04485	KC8024	12	45

50	04485	KC8025	11	48
50	04485	KC8026	4	122
50	04485	KC8027	6	102
50	04485	KC8028	14	78
50	04485	KC8029	16	67
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50	04485	KC8034	12	74
50	04485	KC8035	7	94
50	04485	KC8036	5	76
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50	04485	KC8038	7	33
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50	04485	KC8058	7	76
50	04485	KC8059	5	27
50	04485	KC8060	8	66
50	04485	KC8061	6	70
50	04485	KC8062	6	60
50	04485	KC8063	3	102
50	04485	KC8064	3	54
50	04485	KC8065	5	37
50	04485	KC8066	4	50
50	04485	KC8067	10	91
50	04485	KC8068	6	151
50	04485	KC8069	20	52
50	04485	KC8070	17	65
50	04485	KC8071	12	200
50	04485	KC8072	14	81
50	04485	KC8073	6	38
50	04485	KC8074	8	45

***** END REPORT *****

ANALYTICAL PROCEDURES

APEX ANALYTICAL LABORATORIES, CALGARY

SAMPLE PREPARATION

ROCKS AND DIAMOND DRILL CORE:

These samples are crushed by a primary jaw crusher then through a secondary cone crusher to a particle size of 1/4 inch. The sample is now riffled and a 200 gram portion is kept and pulverized in a temer mill to -200 mesh fraction. The remainder of the sample is kept as a reject. The pulverized sample is rolled to make sure it is well mixed and is then weighed and analyzed.

SOILS

Soil samples are dried and then screened through a 80 mesh stainless steel screen. The -80 mesh sample fraction is then weighed and analyzed. If a soil sample contains an excess of pebbles or is too small, then the entire sample must be pulverized to -200 mesh. This is the only way in which enough material may be found for analysis.

GEOCHEMICAL ANALYSIS - AQUA REGIA DIGESTION

1) Place 18 x 150 mm test tubes in aluminum digestion blocks.

2) Weigh 0.5 g of sample into test tubes.

3) Intersperse samples with blanks, checks and certified reference materials.

4) If samples are highly organic, dry ash in aluminum blocks on hot plates with hot plates set at 6-7 for 2-3 hours. Cool.

5) Add 2 ml conc. HNO_3 and heat 40-45 minutes with hot plates set a 5. Cool.

6) Transfer to wire racks but leave aluminum blocks on hot plates.

7) Add 3 ml conc. HCl. Let sit 15-25 minutes.

8) Add 2 ml H_2O to the blanks.

9) Place test tubes back in aluminum blocks, one row at a time watching for any samples that might have too violent a reaction.

   If samples start to overflow, cool test tubes in a beaker of cold water and then place back in aluminum blocks.

10) Digest samples for 2 hours.

11) Add 1.0 ml of ammonium acetate solution to each tube and leave on a hot plate a further 15 minutes.

12) Remove samples from aluminum blocks, transfer to wire racks and let cool.

13) Dilute to 10 ml with 1 N HNO_3: vortex and allow to stand for 3 hours.

14) Read on A.A. against similarly prepared standards.

NOTE: Arsenic analysis by semi quantitative method, is run from the above solutions using a varian AA-5 spec. and recorder (if necessary to graph results.

FIRE ASSAYING

The following is a brief outline of the mechanics of fire assaying for gold and silver.

The ore is mixed with litharge (PBO) and various fluxed and a reducing agent or oxidizing agent is added, (flour or niter) to form a lead button which weighs between 25 and 35 grams. The whole mix is melted in a fire clay crucible at around 1000°c for 30-40 minutes. The lead collects all the gold, silver and precious metals. The molten assay is taken from the furnace and poured into cone shaped iron molds and due to the differences in the specific gravity of the lead and the slag, the lead collects in the bottom of the mold. When cooled the lead button is separated from the slag and hammered into a cube for ease of handling. The button is then placed in a pre-heated cupel in a furnace with the temperature set at around 900°c. A current of air passes over the top of the cupel containing the lead. The lead is converted back to litharge and is absorbed by the cupel.

Gold and silver are not affected and so remain in the cupel as a small bead. After cupellation is complete (about 60 minutes), the cupel is removed from the furnace. The small bead is then cleaned, flattened with a hammer and transferred to a parting cup. This flattened bead consists of a mixture of gold and silver.

The bead is weighed on a gold balance or micro balance. The bead is parted by placing it in hot, dilute nitric acid which dissolves all the silver but leaves the gold intact. The gold is washed free of silver nitrate by decantations with water and dilute ammonium hydroxide and then annealed at red heat and weighed as pure gold. The difference between the two weighings is the weight of silver.

The bead is weighed in milligrams and the results expressed in ounces per ton in the original sample.

METHOD FOR THE DETERMINATON OF GOLD BY FIRE ASSAY

PRECONCENTRATON AND ATOMIC ABSORPTION ANALYSES

1. A 1 assay ton (29.166g) sample is weighed into a 30 g crucible, 1 mg of Ag is added as a collected agent.

2. Enough flux reducing or oxidizing reagent is added to produce a lead button.

3. The sample is transferred into an assay furnace and heated to 2000°F for 40-45 minutes.

4. The fusion is poured into a iron mould.

5. The slag is separated from the lead button in which Au and Ag has been alloyed.

6. The lead button is again transferred to a cupel in the assay furnace.

7. By heating slightly below melting point of Ag, Lead is eliminated either by vaporizing or absorbing into the cupel in about 40 minutes.

8. A bead which contains all the Au in the 1 assay ton sample is recovered on the cupel.

9. The bead is transferred to a 16 x 150 mm test tube, 1 ml of concentrated HNO_3, and 4 ml of 1:1 HCl are added to the tube.

10. The tube is heated on the hot plate for approximately 1 hour, or until all the residue is dissolved in the tubes.

11. The volume is adjusted to 10 ml with 1:1 HCl and the samples are mixed.

12. Samples are read on a Varian AA5 Atomic absorption spectrophotometer.

ROCK SAMPLE DESCRIPTIONS

KC-2 CLAIM

SAMPLE NO. (Field No.)	ROCK DESCRIPTION
2135 (KC-AS-25)	- 0.5 meter wide shear zone hosted in silicified intermediate volcanic rock - contains disseminated pyrite, aggregates and blebs of fine grained pyrite and trace chalcopyrite
2136 (KC-AS-21)	- narrow quartz vein hosted in andesitic tuff - weak epidote alteration - Pyrite, chalcopyrite and minor malachite in both host rock and quartz vein material.
2137 (KC-AS-36)	- sheared, silicified fine-grained intrusive - very abundant disseminated pyrite up to 3% as fine grains - rock possibly hypabyssal in orgin
2138 (KC-AS-35)	- silicified, mineralized shear zone - chlorite and sericite schist - host units - fine grained disseminated pyrite is present
2140 (KC-AS-1)	- small pod - 15 meters by 8 meters of massive magnetite - minor iron carbonate in fractures, locally calcite stringers - malachite, azurite staining in fractures
2141 (KC-CH-1)	- chip sample across massive magnetite pod - mineralization - massive fine-grained magnetite, minor malachite and azurite staining

KC-2 CLAIM

SAMPLE NO. (Field No.)	ROCK DESCRIPTION
2142 (KC-AS-3)	- mineralization near sedimentary/volcanic rock contact - near massive magnetite with aggregates and stringers of fine-grained pyrite and trace chalcopyrite - epidotized in fractures
2143 (KC-AS-4)	- silicified shear zone in chaloritized mafic volcanic rocks - sample from six meter long gossan zone - mineralization consists of veins and stringers of fine grained to medium grained pyrite and chalcopyrite - quartz present in veins to 2 cm wide
2144 (KC-AS-7)	- chloritized shear zone in mafic volcanics - quartz and epidote-bearing near massive pyrite veins in fractures and joints - series of sub-parallel veins
2145 (KC-AS-8)	- sheared, silicified volcanic rock containing stringer mineralization to 3mm wide - disseminated pyrite, chalcopyrite and epidote present
2146 (KC-AS-11)	- gossan within shear zone in silicified volcanics - mineralization includes stringers, disseminations and fracture coatings of pyrite & epidote - minor fine-grained chalcopyrite present

KC-2 CLAIM

SAMPLE NO. (Field No.)	ROCK DESCRIPTION
2147 (KC-AS-15)	- major gossan development in shear zone - massive sulphide veins to 2 cm in width, consisting of medium-grained pyrite and pyrrhotite and fine-grained magnetite
2148 (KC-SS-3)	- gossan zone within silicified, chloritized volcanic rock - mineralization consists of fine grained to medium grained pyrite both in stringers and disseminated - rock is weakly magnetic
2149 (KC-WF-1)	- quartz vein containing white to grey-black quartz - mineralization - stringers and aggregates of fine grained to medium grained pyrite and chalcopyrite - malachite and azurite staining present
2150 (KC-WF-2)	- wall rock hosting previous quartz vein sample - chloritized and silicified mafic volcanic - medium grained to fine grained pyrite, some as fractured cubes and some in stringers - trace fine-grained pyrite
2151 (KC-WF-5)	- calcite/dolomite vein at margin of magnetite pod - fine grained to medium grained chalcopyrite in stringers and disseminated - some medium-grained pyrite cubes - fine grained magnetite in lenses and disseminated - some malachite staining

KC-2 CLAIM

SAMPLE NO. (Field No.)	ROCK DESCRIPTION
2152 (KC-WF-6)	- gossan zone in chloritized mafic volcanics, dominated by fine grained magnetite (20%) with medium grained pyrite cubes and fine grained pyrite stringers, minor malachite/azurite staining in fractures. - Calcite in fractures
2153 (KC-WF-7)	- silicified gossan zone in chloritized mafic volcanic, medium grained pyrite in aggregates; fine grained pyrite in stringers and disseminated, minor silicification and epidotization related to shearing.
2154 (KC-WF-8)	- silicified vein? in chloritic mafic volcanic, mineralized zone 3 cm wide, fine grained magnetite 5-10%, epidote 20-25%, pyrite 15-20%, quartz 40-45%.
2155 (KC-WF-9)	- shear zone gossan, silicified in chloritic volcanics, stringers of pyrite and quartz and fine grained magnetite in stockwork system, trace epidote.
2156 (KC-WF-10)	- Extensively altered host rock (intrusive?), epidotized, chloritized mafics, mineralization consists of fine grained pyrite disseminated and in stringers, epidote also occurs in stringers.

KC-2 CLAIM

SAMPLE NO. (Field No.)	ROCK DESCRIPTION
2157 (KC-CH-11)	- silicified mafic volcanic, shear zone with up to 3% pyrite disseminated, fracture fillings and stringers present, trace chalcopyrite, epidote present.
2158 (KC-CH-13)	- Shear zone cutting both fine grain diorite and mafic volcanic, up to 1% fine grain disseminated pyrite with few small fracture, fillings, epidote and pyrite in stringers.
2159 (KC-CH-14)	- Shear zone in volcanics, alteration includes silicification and epidotization, fine grain disseminated pyrite to 3%, locally concentrated along joint surfaces.
2160 (KC-AS-17)	- Quartz vein in sheared chloritized volcanic rocks, vuggy white quartz with hematized fractures and limonite stain, fine to medium grained disseminated pyrite present.
2161 (KC-AS-20)	- Sediment wedge in volcanics consisting of limestone with calcite stringers, mineralization includes aggregates and stringers of medium grained chalcopyrite with minor malachite and pyrite.

KC-2 CLAIM

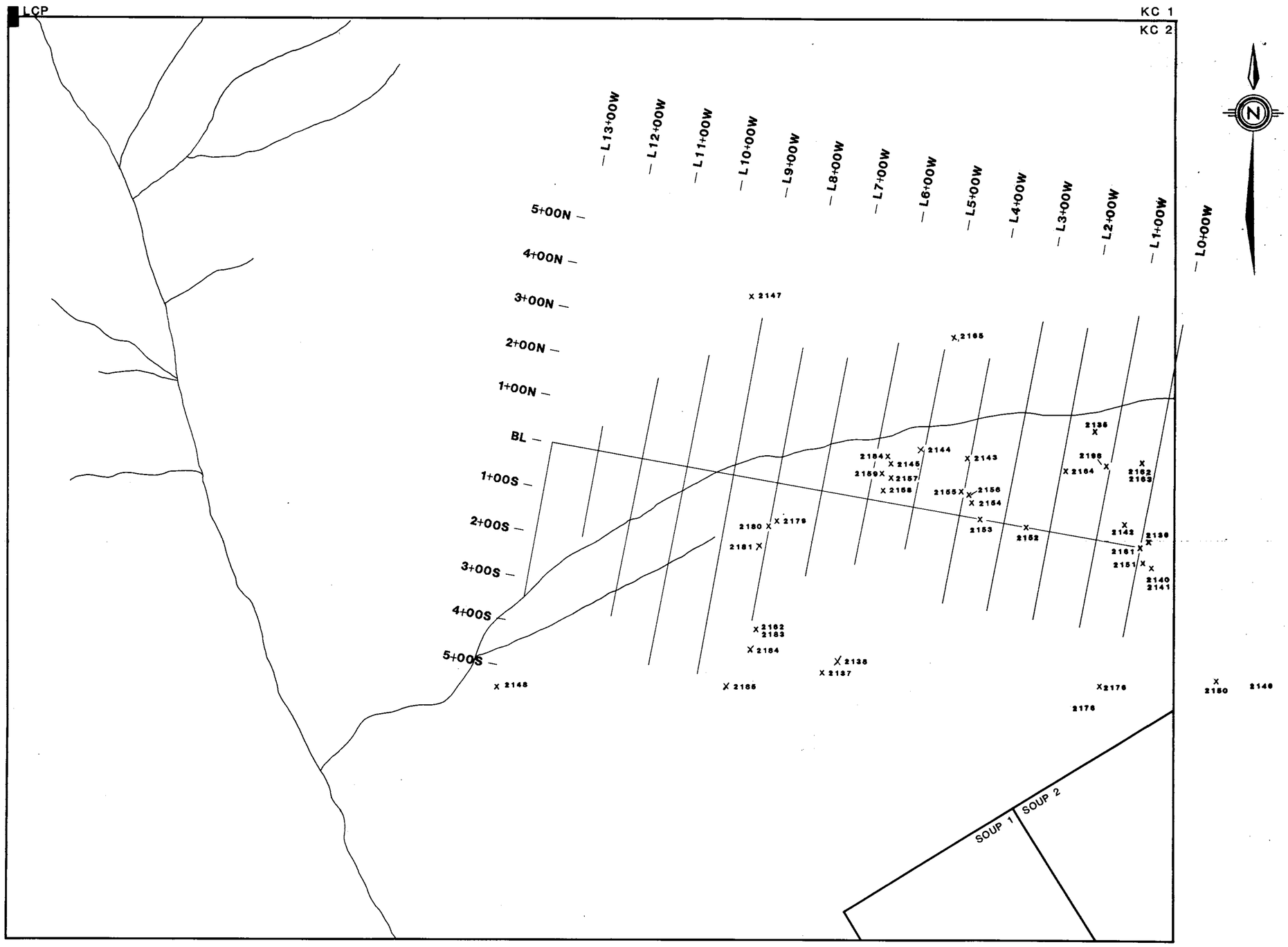
SAMPLE NO. (Field No.)	ROCK DESCRIPTION
2162 (KC-AS-23)	- Gossan zone in limestone, sample along strike length of gossan, mineralization both massive and stringers and includes chalcopyrite, pyrite, pyrrhotite, and magnetite.
2163 (KC-AS-24)	- Sample from centre of massive sulphide lens, mineralization dominated by pyrite, chalcopyrite and bornite with copper minerals concentrated in fractures.
2164 (KC-AS-27)	- Shear zone in altered volcanic rock, epidotization and silicification in vicinity, mineralization consists of disseminated fine grained pyrite with trace chalcopyrite.
2165 (KC-AS-28)	- Gossan zones in chloritized, silicified volcanic rocks, mineralization consists of medium grained pyrite in aggregates and stringers, with small massive pyrite zones, locally magnetite rich host rock.
2176 (KC-WF-24)	- 2-3 cm wide quartz vein containing medium to coarse grained chalcopyrite, medium grained galena and sphalerite, chalcopyrite up to 25% of quartz vein.

KC-2 CLAIM

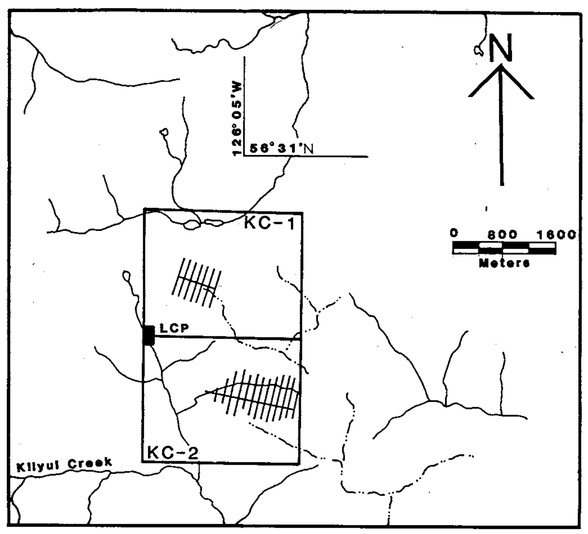
SAMPLE NO. (Field No.)	ROCK DESCRIPTION
2178 (KC-WF-26)	- Float, highly altered fine grained intrusive with small lenses and pods of near massive sulphide, mineralization includes abundant pyrite with some chalcopyrite, malachite and azurite.
2179 (KC-WF-30)	- Epidotized, chloritized volcanic host rock with abundant fine to medium grained pyrite (to 20%) and fine grain magnetite (to 10%), trace chalcopyrite.
2180 (KC-WF-31)	- 25-30 cm wide quartz vein, iron stained fractures, mineralization, pyrite medium grained, fractured cubes to fine grains; typically as aggregates.
2181 (CK-CH-18)	- Silicified diorite, disseminated pyrite with trace chalcopyrite, form shear zone, epidotization and sericitization.
2182 (KC-CH-19)	- Extremely siliceous, mafic to intermediate volcanic, 1-3% pyrite disseminated and in fracture fillings, sericite alteration extensive.
2183 (KC-CH-20)	- Extremely siliceous mafic to intermediate volcanic, 1-3% pyrite disseminated and in fracture fillings, sericite alteration and some epidote.
2184 (KC-CH-21)	- as 2183 and with weak carbonatization in fractures

KC-2 CLAIM

SAMPLE NO. (Field No.)	ROCK DESCRIPTION
2185 (KC-CH-22)	- Mafic volcanic intensely sheared, trace to 1% disseminated and fracture filled pyrite, alteration sericitization.
2186 (KC-WF-32)	- Sheared, iron stained quartz from a 25-30 cm wide quartz vein exposed for 6 m, no visible mineralization.
2198 (KC-WF-47)	- Quartz vein 2-5 cm wide, carbonate in fractures, medium grained chalcopyrite in vugs, minor malachite staining.



KEY MAP



LEGEND

ROCK SAMPLE LOCATION

x ROCK SAMPLE FROM OUTCROP

SCALE IN METERS

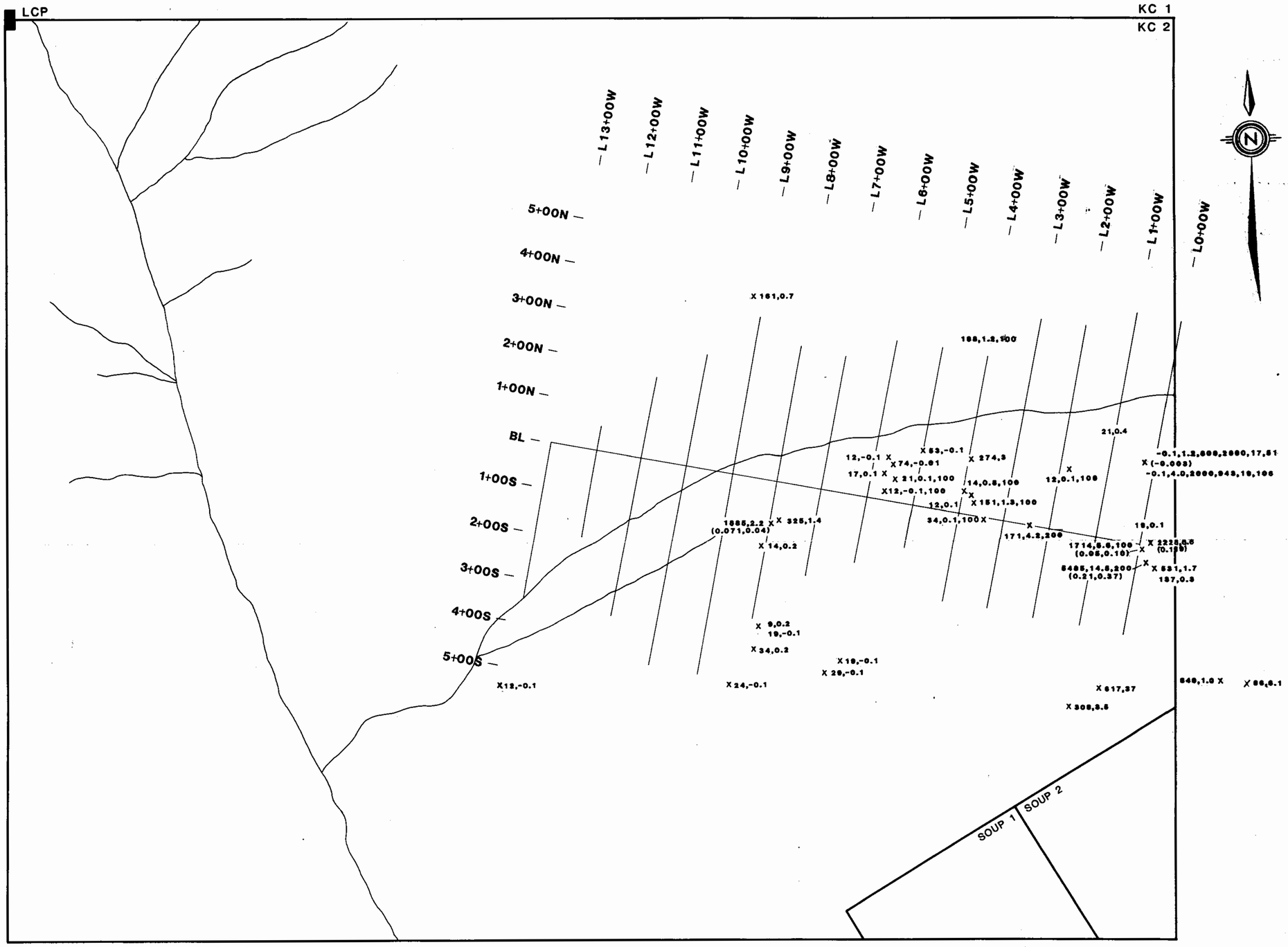
0 50 100 200 300 400 500

Suncor Inc. Resources Group — COAL AND MINERALS DEPARTMENT

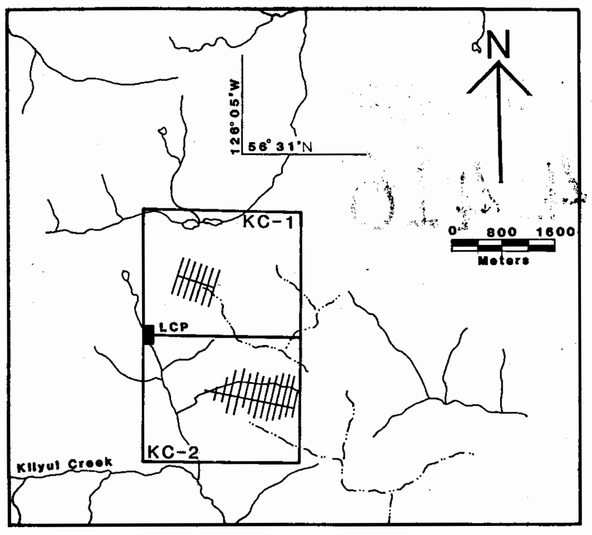
OMINECA OPTION
KC CLAIM 2

ROCK SAMPLE LOCATIONS

DATE	SCALE	N.T.S.	DRAWING No.
Sept. 12/85	1:5000	94D 8E&9E	KC001



KEY MAP



LEGEND

X -0.1 , 1.2 , 800 ,2600 , 17 , 51

- Zn(ppm)
- Pb(ppm)
- Cu(ppm)
- As(ppm)
- Ag(ppm)
- Au(ppb)

(0.21 , 0.37)

- Ag(oz/ton)
- Au(oz/ton)

Note: Minus (-) sign indicates less than,As value indicated only when≥100 ppm

SCALE IN METERS

0 50 100 200 300 400 500

Suncor inc. Resources Group — COAL AND MINERALS DEPARTMENT

OMINECA OPTION
KC CLAIM 2

ROCK SAMPLE ANALYTICAL RESULTS

DATE	SCALE	N.T.S.	DRAWING No.
Sept.12/85	1:5000	94D 8E&9E	KC002

GEOLOGICAL BRANCH
ASSESSMENT REPORT

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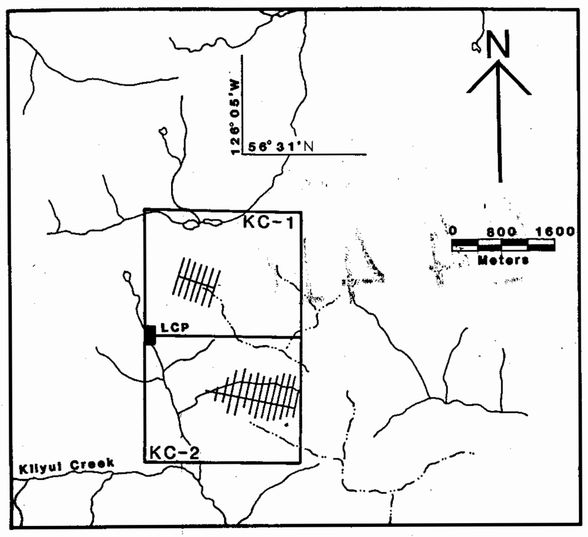
KEY MAP



● SOIL SAMPLE LOCATION

SCALE IN METERS

0 50 100 200 300 400 500

Suncor Inc. Resources Group — COAL AND MINERALS DEPARTMENT

OMINECA OPTION
KC CLAIM 2
SOIL SAMPLE LOCATIONS

DATE	SCALE	N.T.S.	DRAWING No.
July 5/85	1:5,000	94D-8E&9E	KC003

GEOLOGICAL BRANCH
ASSESSMENT REPORT

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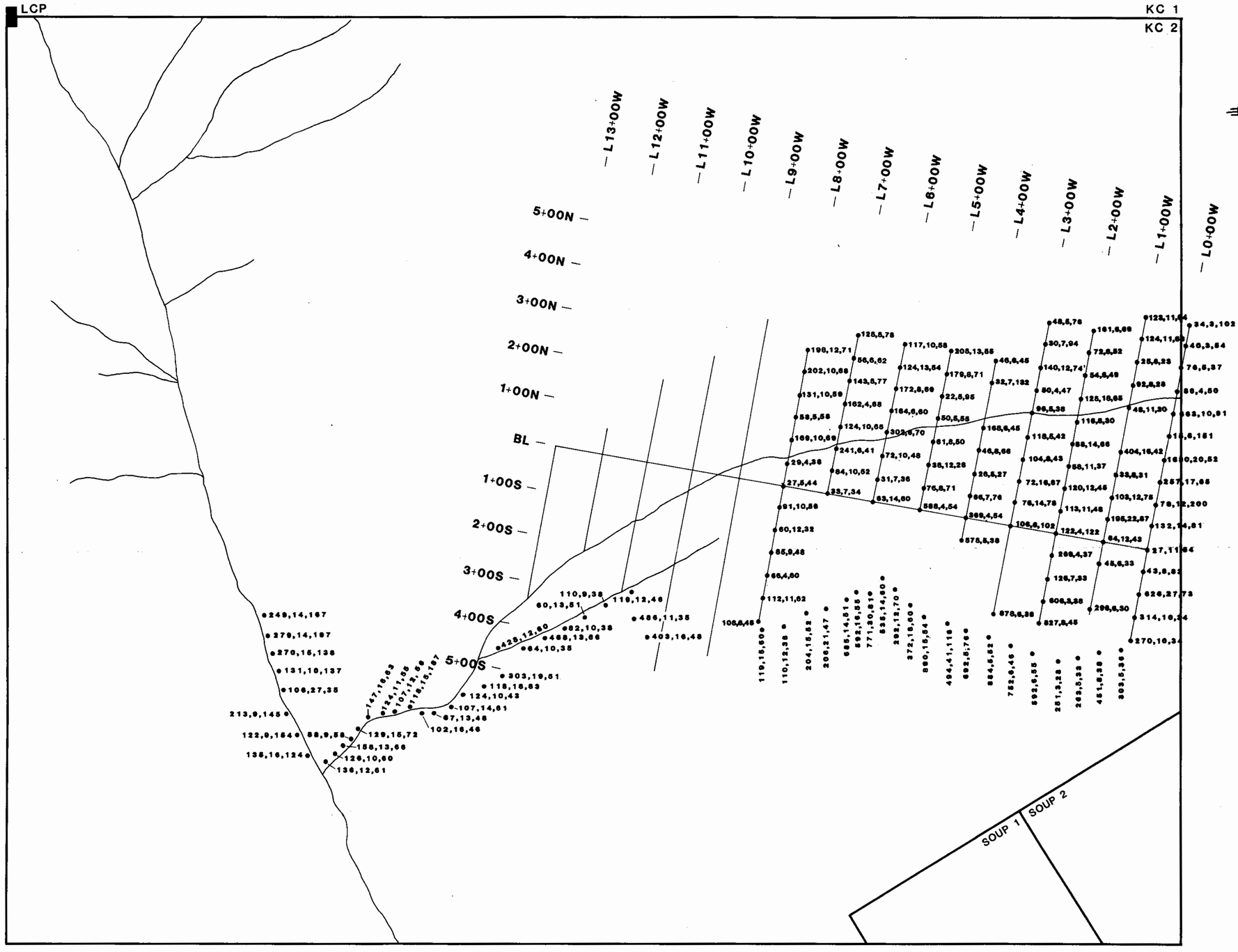
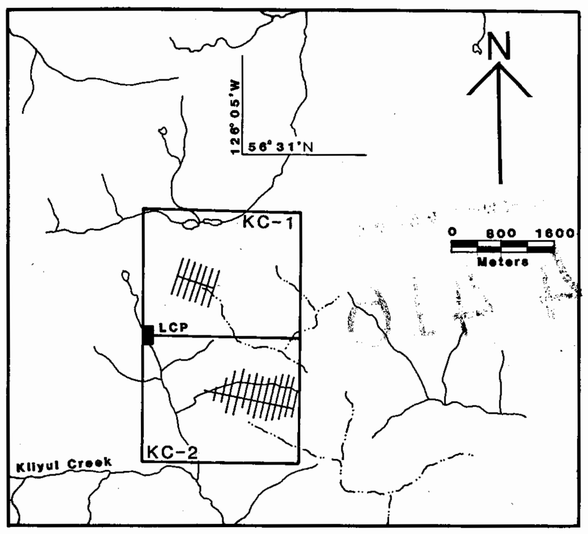


KEY MAP



LEGEND

92 , 10 , 87
Cu(ppm)
Pb(ppm)
Zn(ppm)

SOIL SAMPLE LOCATION

SCALE IN METERS

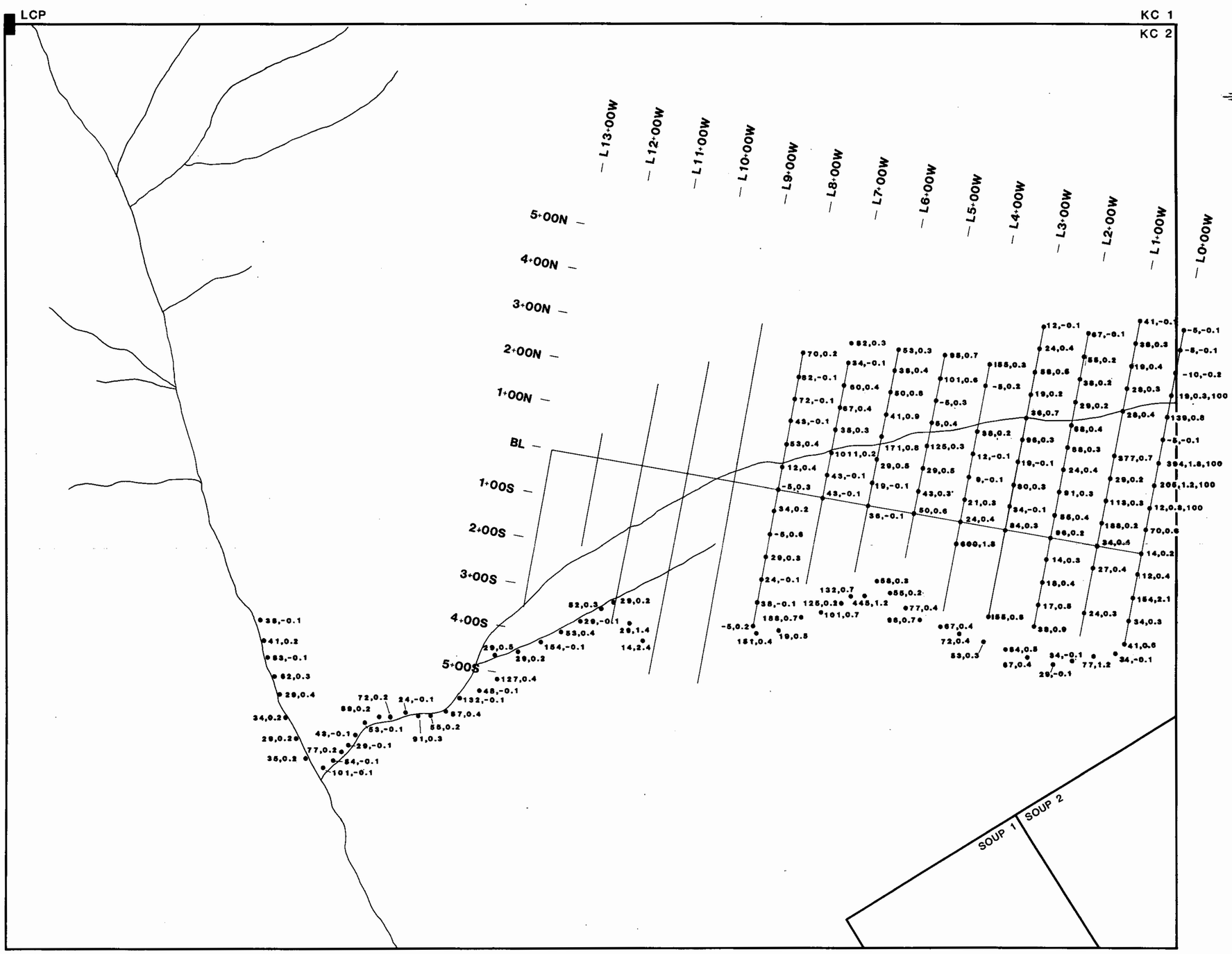
0 50 100 200 300 400 500

Suncor Inc. Resources Group — COAL AND MINERALS DEPARTMENT

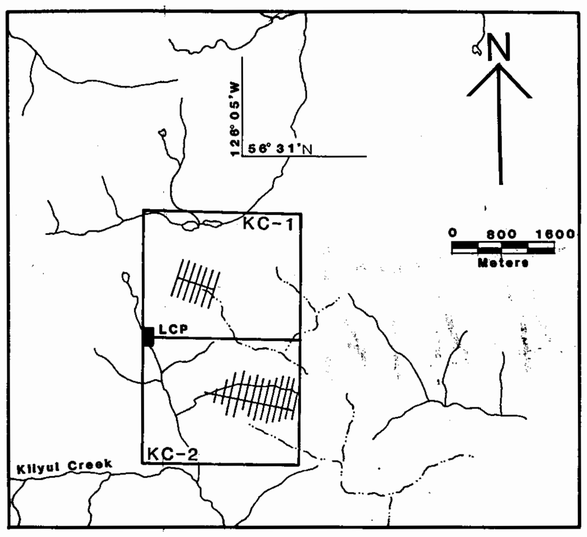
OMINECA OPTION
KC CLAIM 2

SOIL SAMPLE ANALYTICAL RESULTS
Cu,Pb,Zn

DATE	SCALE	N.T.S.	DRAWING No.
Sept.12/85	1:5000	94D 8E&9E	KC004



KEY MAP



LEGEND

•19 , 0.3 , 100

- 19 → Au(ppb)
- 0.3 → Ag(ppm)
- 100 → As(ppm)

Note: As value indicated only when ≥ 100ppm.

SCALE IN METERS

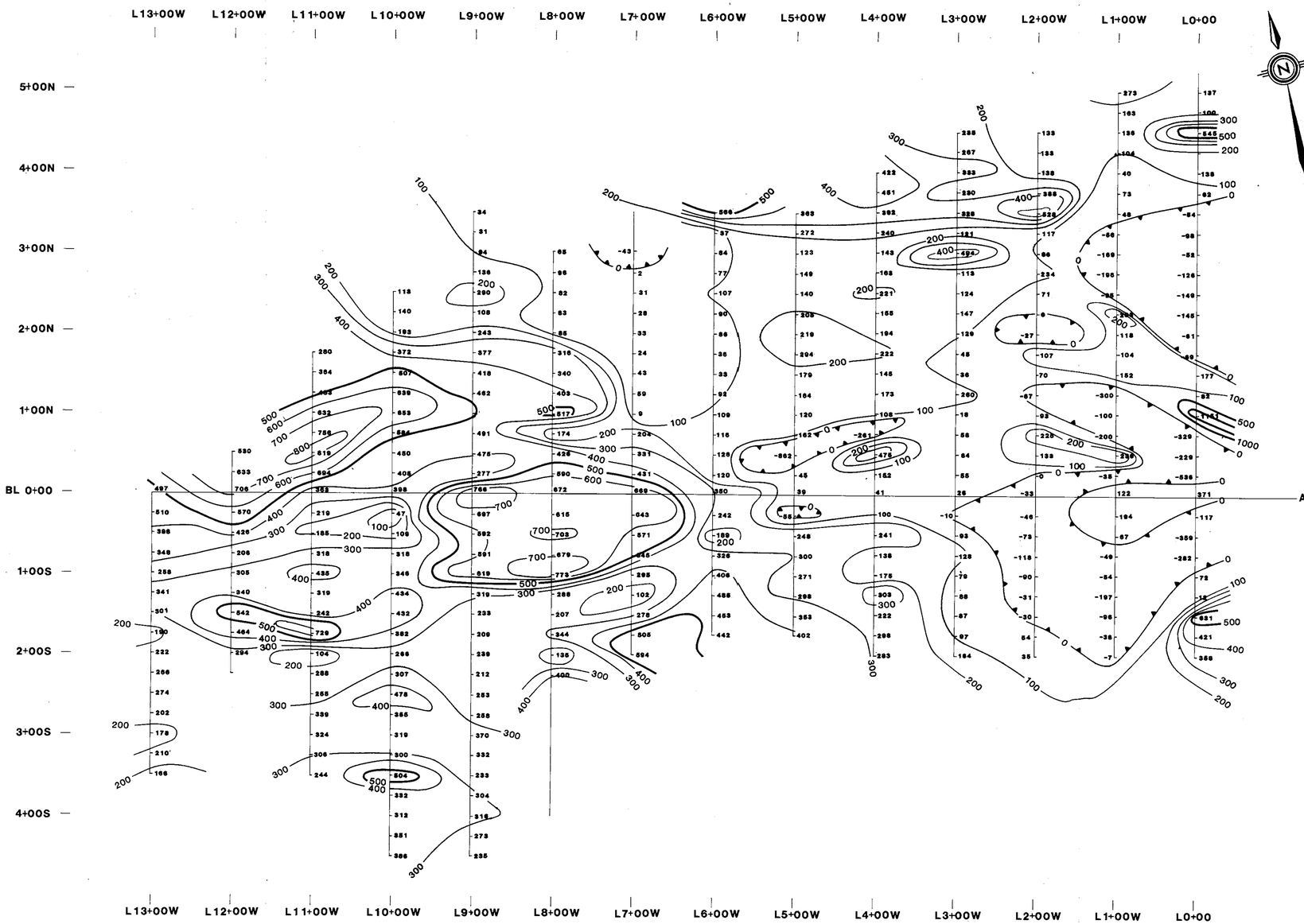
0 50 100 200 300 400 500

Suncor inc. Resources Group — COAL AND MINERALS DEPARTMENT

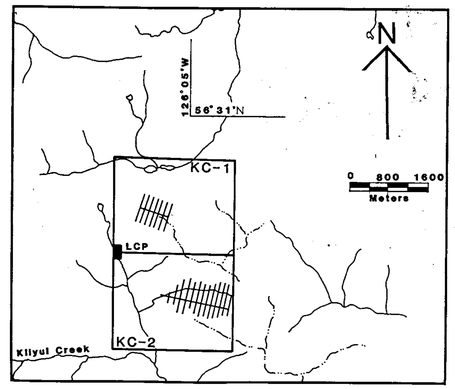
OMINECA OPTION
KC CLAIM 2

SOIL SAMPLE ANALYTICAL RESULTS
Au Ag As

DATE	SCALE	N.T.S.	DRAWING No.
Sept.12/85	1:5000	94D 8E&9E	KC005



KEY MAP



LEGEND

INSTRUMENT : SCINTREX M.P.2
ACCURACY : ±2 GAMMAS
BASE : 58,000 GAMMAS
OPERATOR : I. SIMPSON
CONTOUR INTERVAL : 100 GAMMAS

SCALE IN METERS

0 50 100 200 300 400 500

Suncor Inc. Resources Group — COAL AND MINERALS DEPARTMENT

OMINECA OPTION
KC CLAIM 2

MAGNETOMETER SURVEY
BEAR LAKE B.C.
Plotted By: I. Simpson

DATE	SCALE	N.T.S.	DRAWING No.
JULY 1985	1:2500	94D/8E	KC006

GEOLOGICAL BRANCH
ASSESSMENT REPORT

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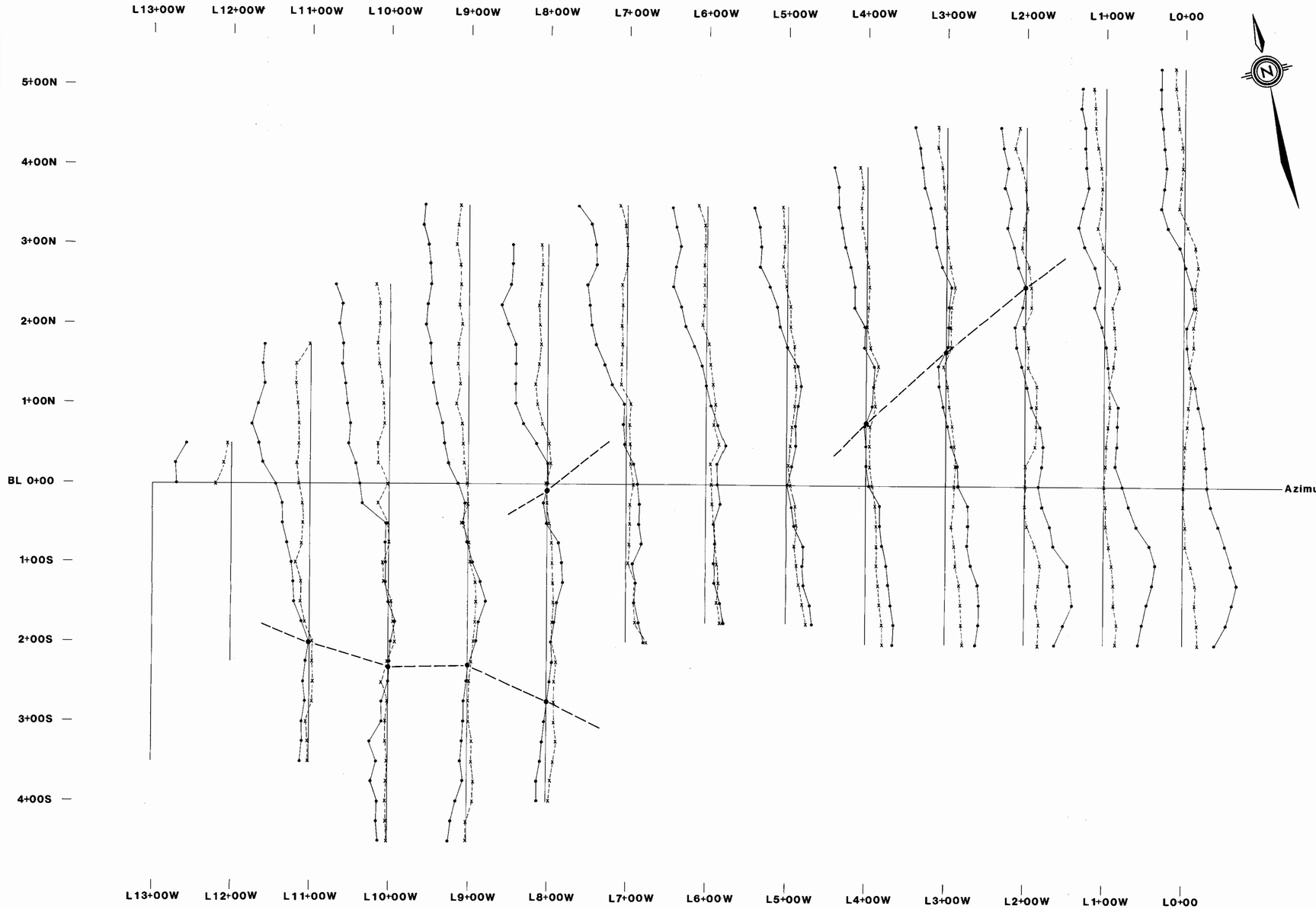
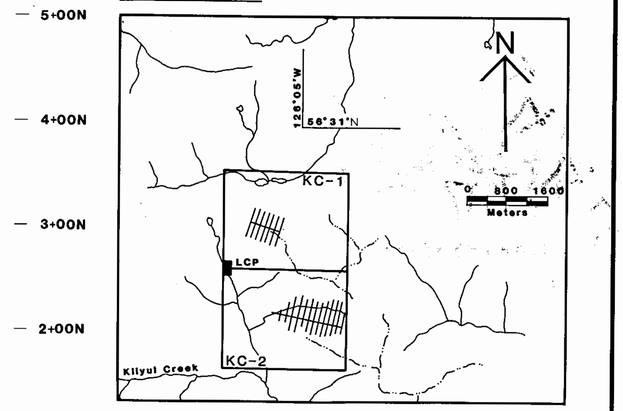


KEY MAP



LEGEND

INSTRUMENT : GEONICS EM-16
Tx : CUTLER MAINE
Fq : 24.0 kHz
DIRECTION TO STATION : 095°
READING DIRECTION : SOUTH
PROFILE SCALE : 1cm=20%
OPERATOR : S. SCOTT
IN PHASE
QUADRATURE
CROSS-OVER
VLF CONDUCTOR

SCALE IN METERS

0 50 100 200 300 400 500

Suncor Inc. Resources Group — COAL AND MINERALS DEPARTMENT

OMINECA OPTION
KC CLAIM 2
V.L.F. SURVEY
BEAR LAKE B.C.
Plotted By : S. Scott

DATE	SCALE	N.T.S.	DRAWING No.
JULY 10/85	1 : 2500	94D 8E/9E	KC007

GEOLOGICAL BRANCH
ASSESSMENT REPORT

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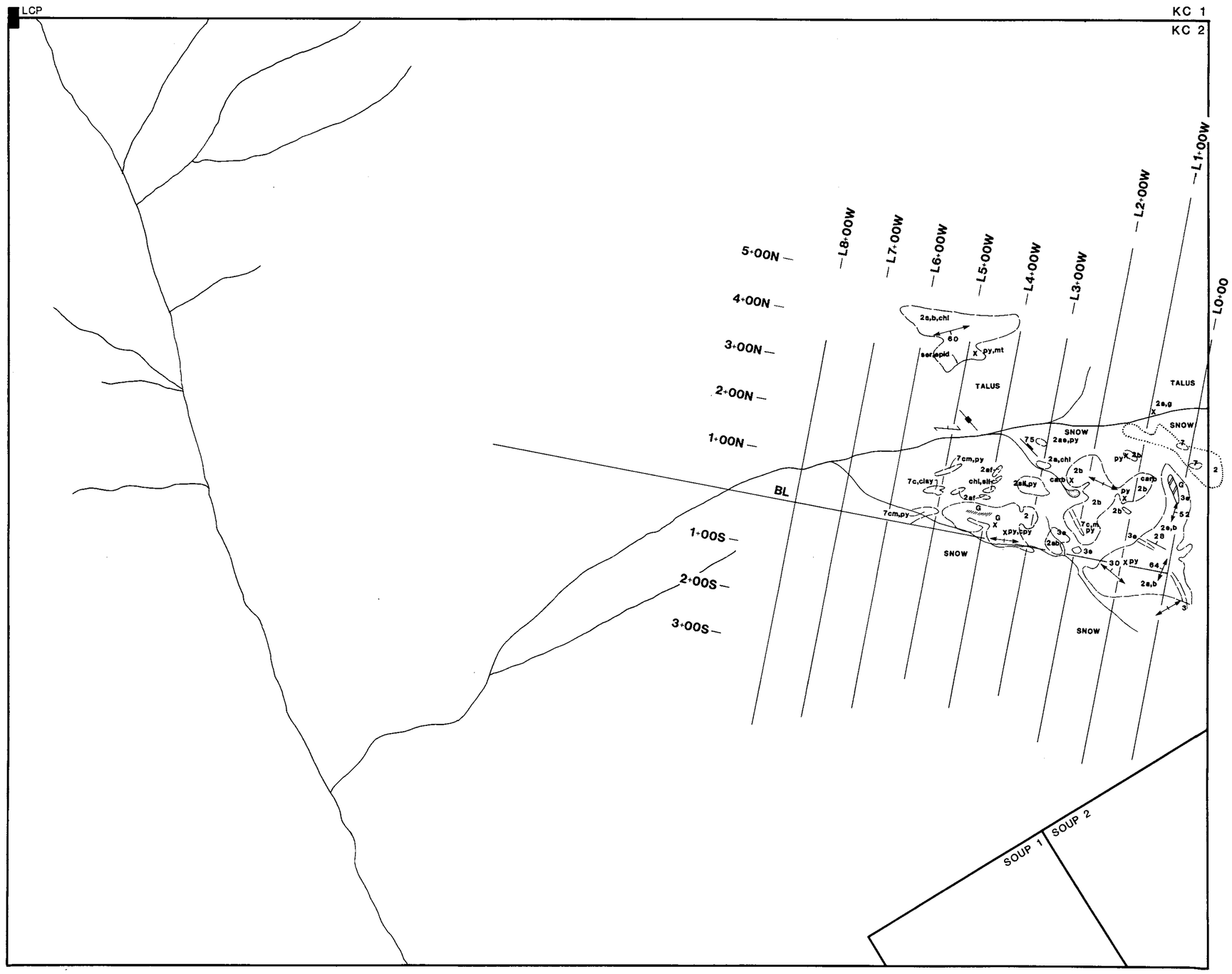
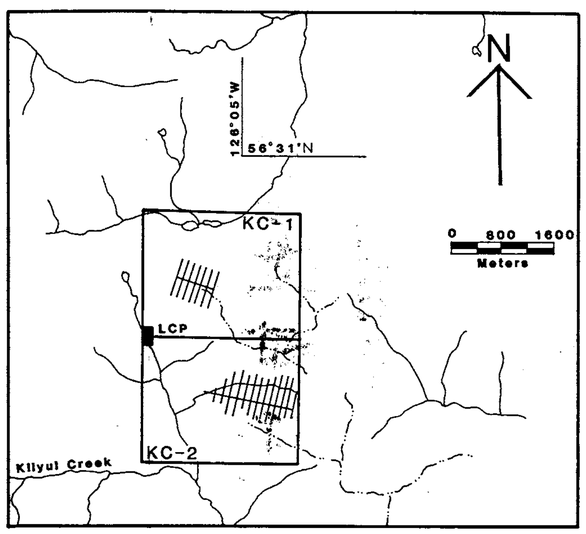


KEY MAP



LEGEND

Tertiary

7 **OMINECA INTRUSIONS**

Felsic Intrusions

- c) diorite
- e) granite
- m) medium grained
- n) coarse grained
- o) fine grained

Lower to Middle Jurassic

3 Hazelton Group

Clastic - metasediments

- e) limestone

Felsic to Intermediate Volcanics - undifferentiated

2

- a) flow
- b) tuff
- c) lapilli tuff
- d) breccia - agglomerate
- e) feldspar porphyry
- f) hornblende porphyry
- g) feldspar - hornblende porphyry
- h) amygdule
- j) andesite
- k) docite

SYMBOLS

- Geological boundary (defined, assumed)
- 5 Bedding (vertical, inclined)
- 10 / 30 Jointing (vertical, inclined)
- Shearing (vertical, inclined)
- G Gossan (point, area)
- Small outcrop
- Outcrop area

carb	carbonatization
sil	silicification
chl	chlorite
ser	sercitization
epid	epidote
py	pyrite
po	pyrrhotite
cpy	chalcopyrite
mt	magnetite

SCALE IN METERS

0 50 100 200 300 400 500

Suncor Inc. Resources Group — COAL AND MINERALS DEPARTMENT

OMINECA OPTION
KC CLAIM 2
GEOLOGY

DATE	SCALE	N.T.S.	DRAWING No.
DEC/85	1:5000	94D/8E,9E	KC008

GEOLOGICAL BRANCH
ASSESSMENT REPORT

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