NELSON / 87-472-16181

7/88

Province of British Columbia

Ministry of Energy, Mines and Petroleum Resources

ASSESSMENT REPORT TITLE PAGE AND SUMMARY

TYPE OF REPORT/SURVEY(S): GEOCHEMICAL

TOTAL COST: $4322.00

AUTHOR(S): A.S. Hagen

SIGNATURE(S): A.S.Hagen

DATE STATEMENT OF EXPLORATION AND DEVELOPMENT FILED: July 23, 1987 YEAR OF WORK: 1987

PROPERTY NAME(S): SHA

COMMODITIES PRESENT: —

B.C. MINERAL INVENTORY NUMBER(S), IF KNOWN: —

MINING DIVISION: NELSON

LATITUDE: 49°11'30" NTS: 82F/1W LONGITUDE: 116°19'12"

NAMES and NUMBERS of all mineral tenures in good standing (when work was done) that form the property [Examples: TAX 1-4, FIRE 2 (12 units); PHOENIX (Lot 1706); Mineral Lease M 123; Mining or Certified Mining Lease ML 12 (claims involved)]:

Sha 7 - 28, Sun 12 (378 units)

OWNER(S)

(1) Cominco Ltd. (2)

MAILING ADDRESS

700 - 409 Granville St.,
Vancouver, B.C. V6C 1T2

OPERATOR(S) (that is, Company paying for the work)

(1) Cominco Ltd. (2)

MAILING ADDRESS

as above

GEOLOGICAL BRANCH
ASSESSMENT REPORT

16,181

SUMMARY GEOLOGY (lithology, age, structure, alteration, mineralization, size, and attitude):

The Sha claims are underlain by moderately east dipping Precambrian Middle Aldridge Formation sediments. These sediments are dominantly medium to thin bedded wackes and quartzitic wackes which are intruded by gabbro sills and dykes. The area is bounded on the east and west by 2 major north trending faults - the Iron Mountain fault on the west and on the east by the Kidd Creek fault. A number of minor northeast and northwest striking left lateral normal faults have been mapped on the property.

REFERENCES TO PREVIOUS WORK

FILMED

(over)

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COMINCO LTD.

EXPLORATION

WESTERN DISTRICT

REPORT ON SOIL GRID GEOCHEMISTRY

SHA CLAIMS 24, 26 and 28

NELSON MINING DIVISION

1.00 INTRODUCTION

1.10 Location and Access

The Sha property lies within the Fort Steele and Nelson Mining Divisions. The claims are located 40 km east of Creston, B.C., at latitude 49° 06′ N and longitude 116° 17′ W.

Access to the property is gained via Highway 3 and thence by various old logging roads.

1.20 Property Definition

The property consists of Sha claims 7 - 28 and Sun 12, totalling 378 units. All the claims are 100% owned by Cominco Ltd.

1.30 Topography and Vegetation

The Sha property covers a large tract of densely forested, mountainous terrain. The mountains are steep sided with rounded to flat ridge tops. The major valleys have been glaciated, however, there is no evidence of Alpine glaciation.

Vegetation consists mainly of lodgepole pine, douglas fir and larch on south and east facing slopes. North and north-west slopes host thick stands of mature spruce, cedar, hemlock, minor grand fir and white pine.

1.40 Objective

Grid soil geochemistry was undertaken to help evaluate an area thought to be underlain by favourable geology.

2.00 GEOCHEMISTRY

2.10 Sampling Procedure

Soil samples were taken at 50 m intervals on variously spaced, E-W and N-S lines. Samples were taken from the B horizon at depths of 10-20 cm.

2.20 Analytical Procedure

All samples were shipped to Cominco's Exploration Research Laboratory in Vancouver.

One half gram of -80 mesh soil is weighed into a test tube, 5 ml of 20% HNO_3 is added. The samples are digested for 90 minutes in a water bath at 95°C (samples are shaken every 15 minutes). After digestion the sample is made up to 10 ml with deionized water shaken and run on the A.A. for Pb, Zn. Background correction is used for Pb determinations.

The readout sheets for Pb and Zn are included with the report.

3.00 CONCLUSIONS

A number of weak to moderate anomalous Pb and Zn values are indicated on the three soil geochemistry grids located on the Sha (north) claims 24, 26 and 28. The anomalous values are suggested in part to occur in association with particular, more argillaceous lithologies within Middle Aldridge stratigraphy. No significant amounts of mineralization are indicated in the immediate area by these results.

Report by: A.S. Hagen
Geologist II

Endorsed by: D. Anderson
Project Geologist

Approved by: J.M. Hamilton
Manager
Exploration

xc: [redacted] (2 copies)
Western District, Exploration
Administration
Kootenay Exploration

EXHIBIT "A"

STATEMENT OF EXPENDITURES

SOIL GRID GEOCHEMISTRY SURVEY

ON SHA 24, 26 and 28

NELSON M.D.

Covering the Period June 12th to July 1st, 1987

SALARIES:

A.S. Hagen - Supervision, Field work, Report writing 3 days @ $210/day	=	$ 630.00
J. Allen - Field Assistant 10 days @ $81/day	=	810.00
C. Schultze - Field Assistant 10 days @ $98/day	=	980.00

GEOCHEM ASSAYS:

Cominco Exploration Research Laboratory - Vancouver 345 samples @ $4.12/sample	=	1,422.00

TRANSPORTATION:

One 4X4 Truck - 10 days @ $40/day	=	400.00
One 4X4 Truck - 2 days @ $40/day	=	80.00
TOTAL	=	$4,322.00

A.S. Hagen
Geologist

IN THE MATTER OF THE

B.C. MINERAL ACT

AND

IN THE MATTER OF A SOIL GEOCHEMISTRY PROGRAM

CARRIED OUT ON THE SHA 24, 26 AND 28

CRESTON AREA

in the Nelson Mining Division of
the Province of British Columbia

More Particularily N.T.S. 82F/1

A F F I D A V I T

I, A.S. Hagen, of the City of Kimberley, in the Province of British Columbia, make Oath and say:

1. That I am employed as a Geologist by Cominco Ltd. and as such, have a personal knowledge of the facts to which I hereinafter depose:

2. That annexed hereto and marked as Exhibit "A" to this my Affidavit is a true copy of expenditures incurred on a soil geochemistry program, on the Sha 24, 26 and 28 Mineral Claims.

3. That the said expenditures were incurred between the 12th day of June, 1987 and the 1st day of July, 1987 for the purpose of mineral exploration on the above noted claims.

A.S. HAGEN
GEOLOGIST

COMINCO LTD.

EXPLORATION WESTERN DISTRICT

STATEMENT OF QUALIFICATIONS

A.S. HAGEN has personally conducted many types of mineral exploration work for Cominco Ltd. over the last twenty years.

I consider him well qualified to prepare this report.

D. ANDERSON, P.Eng.
Project Geologist

SHA-WD

JOB V 87-02255
REPORT DATE 15 JUL 1987

LAB NO	FIELD NUMBER	EAST+ WEST-	NORTH+ SOUTH-	PB PPM	ZN PPM
SB703405	SHA 24	1	0	38	285
SB703406		1	50	401	412
SB703407		1	100	25	144
SB703408		1	150	13	145
SB703409		1	200	30	172
SB703410		1	250	13	117
SB703411		1	300	32	137
SB703412		1	350	25	206
SB703413		1	400	14	120
SB703414		1	450	10	91
SB703415		1	500	19	133
SB703416		1	550	10	63
SB703417		1	600	9	64
SB703418		1	650	9	59
SB703419		1	700	15	101
SB703420		2	0	11	90
SB703421		2	50	10	142
SB703422		2	100	8	39
SB703423		2	150	40	224
SB703424		2	200	50	130
SB703425		2	250	186	166
SB703426		2	300	41	162
SB703427		2	350	23	214
SB703428		2	400	31	155
SB703429		2	450	23	136
SB703430		2	500	22	120
SB703431		2	550	10	88
SB703432		2	600	23	114
SB703433		2	650	23	151
SB703434		2	700	6	54
SB703435		3	0	14	73
SB703436		3	50	8	83
SB703437		3	100	12	87
SB703438		3	150	10	77
SB703439		3	200	36	127
SB703440		3	300	40	253
SB703441		3	350	20	192
SB703442		3	450	19	110
SB703443		3	500	22	131
SB703444		3	550	24	123
SB703445		3	600	31	150
SB703446		3	650	16	90
SB703447		3	700	17	112
SB703448		4	0	13	116
SB703449		4	50	17	125
SB703450		4	100	16	118
SB703451		4	150	43	217
SB703452		4	200	27	189
SB703453		4	250	42	174
SB703454		4	300	80	166
SB703455		4	350	9	100

LAB NO	FIELD NUMBER	EAST+ WEST-	NORTH+ SOUTH-	PB PPM	ZN PPM
SB703456		4	400	14	118
SB703457		4	450	42	176
SB703458		4	500	18	83
SB703459		4	550	13	85
SB703460		4	600	19	94
SB703461		4	650	12	74
SB703462		4	700	12	98
SB703463		5	0	34	135
SB703464		5	50	26	83
SB703465		5	100	22	74
SB703466		5	150	14	62
SB703467		5	200	36	99
SB703468		5	250	16	156
SB703469		5	300	12	140
SB703470		5	350	14	113
SB703471		5	400	15	119
SB703472		5	450	17	79
SB703473		5	500	18	97
SB703474		5	550	11	84
SB703475		5	600	8	97
SB703476		5	650	9	119
SB703477		5	700	14	125
SB703478		6	0	18	144
SB703479		6	50	13	84
SB703480		6	100	11	165
SB703481		6	150	18	129
SB703482		6	200	28	119
SB703483		6	250	8	73
SB703484		6	300	6	71
SB703485		6	350	44	113
SB703486		6	450	23	125
SB703487		6	500	27	99
SB703488		6	550	19	70
SB703489		6	600	18	57
SB703490		6	650	21	82
SB703491		6	700	11	89
SB703492		7	0	15	107
SB703493		7	50	24	144
SB703494		7	100	18	111
SB703495		7	150	21	114
SB703496		7	200	41	104
SB703497		7	250	13	88
SB703498		7	300	11	151
SB703499		7	350	7	82
SB703500		7	400	7	42
SB703501		7	450	7	82
SB703502		7	500	6	73
SB703503		7	550	4	49
SB703504		7	600	7	70
SB703505		7	650	8	84
SB703506		7	700	10	100
SB703507		8	0	112	257
SB703508		8	50	76	210
SB703509		8	100	110	317

LAB NO	FIELD NUMBER	East+ West-	North+ South-	Pb PPM	Zn PPM
SB703510		8	150	25	76
SB703511		8	200	13	102
SB703512		8	250	12	95
SB703513		8	300	11	112
SB703514		8	350	25	188
SB703515		8	400	53	113
SB703516		8	450	22	71
SB703517		8	500	51	133
SB703518		8	550	9	101
SB703519		8	600	22	90
SB703520		8	650	13	122
SB703521		8	700	18	88
SB703522		3	400	18	116
SB703523		1	0	23	88
SB703524	SHA 26	1	50	28	95
SB703525		1	100	11	132
SB703526		1	200	9	104
SB703527		1	250	7	105
SB703528		1	300	8	104
SB703529		1	350	8	180
SB703530		1	400	9	115
SB703531		1	450	13	114
SB703532		1	500	10	170
SB703533		1	550	11	168
SB703534		1	600	14	94
SB703535		1	650	15	91
SB703536		1	700	16	141
SB703537		2	0	25	85
SB703538		2	50	28	66
SB703539		2	100	15	100
SB703540		2	150	18	172
SB703541		2	200	17	128
SB703542		2	250	13	117
SB703543		2	300	20	112
SB703544		2	350	14	120
SB703545		2	400	12	96
SB703546		2	450	9	115
SB703547		2	500	16	89
SB703548		2	550	12	136
SB703549		2	600	13	104
SB703550		2	650	13	82
SB703551		2	700	14	127
SB703552		3	50	40	86
SB703553		3	100	25	181
SB703554		3	150	19	103
SB703555		3	200	12	152
SB703556		3	250	10	80
SB703557		3	300	9	56
SB703558		3	350	10	92
SB703559		3	400	10	82
SB703560		3	450	10	88
SB703561		3	500	10	78
SB703562		3	550	8	58
SB703563		3	600	12	79

LAB NO	FIELD NUMBER	EAST+ WEST-	NORTH+ SOUTH-	PB PPM	ZN PPM
SB703564		3	650	12	134
SB703565		3	700	17	133
SB703566		4	0	11	96
SB703567		4	50	32	125
SB703568		4	100	16	69
SB703569		4	150	11	56
SB703570		4	200	16	108
SB703571		4	250	15	64
SB703572		4	300	8	94
SB703573		4	350	12	196
SB703574		4	400	10	88
SB703575		4	450	8	131
SB703576		4	500	17	158
SB703577		4	550	9	78
SB703578		4	600	11	75
SB703579		4	650	12	76
SB703580		4	700	16	116
SB703581		5	0	18	106
SB703582		5	50	26	134
SB703583		5	100	24	148
SB703584		5	150	18	71
SB703585		5	200	14	106
SB703586		5	250	9	84
SB703587		5	300	10	86
SB703588		5	350	7	104
SB703589		5	400	27	88
SB703590		5	450	9	118
SB703591		5	500	9	70
SB703592		5	550	12	79
SB703593		5	600	16	86
SB703594		5	650	23	100
SB703595		5	700	18	101
SB703596		6	300	8	115
SB703597		6	350	39	207
SB703598		6	400	29	92
SB703599		6	450	11	123
SB703600		6	500	32	73
SB703601		6	550	16	142
SB703602		6	600	14	114
SB703603		6	650	12	63
SB703604		6	700	15	108
SB703605		7	0	12	107
SB703606		7	50	14	92
SB703607		7	100	20	100
SB703608		7	150	16	82
SB703609		7	200	8	158
SB703610		7	250	17	109
SB703611		7	300	<4	76
SB703612		7	350	9	95
SB703613		7	400	15	117
SB703614		7	450	11	83
SB703615		7	500	18	81
SB703616		7	550	14	107
SB703617		7	600	29	156

LAB NO	FIELD NUMBER	EAST+ WEST-	NORTH+ SOUTH-	PB PPM	ZN PPM
SB703618		7	650	18	132
SB703619		7	700	17	156
SB703620		8	0	10	64
SB703621		8	50	13	88
SB703622		8	100	15	126
SB703623		8	150	11	82
SB703624		8	200	9	77
SB703625		8	250	14	131
SB703626		8	300	10	67
SB703627		8	350	24	89
SB703628		8	400	9	80
SB703629		8	450	12	111
SB703630		8	500	19	127
SB703631		8	550	14	152
SB703632		8	600	14	115
SB703633		8	650	15	127
SB703634		8	700	26	197
SB703635		1	0	20	165
SB703636	SHA 28	1	50	15	110
SB703637		1	100	30	159
SB703638		1	150	29	162
SB703639		1	200	19	108
SB703640		1	250	26	140
SB703641		1	300	24	150
SB703642		1	350	23	171
SB703643		1	400	21	168
SB703644		1	450	25	214
SB703645		1	500	20	169
SB703646		1	550	17	129
SB703647		1	600	19	120
SB703648		1	650	24	139
SB703649		1	700	40	256
SB703650		1	750	17	135
SB703651		1	800	19	133
SB703652		1	850	9	110
SB703653		1	900	14	86
SB703654		2	0	29	150
SB703655		2	50	25	149
SB703656		2	100	22	179
SB703657		2	150	19	111
SB703658		2	200	29	143
SB703659		2	250	17	176
SB703660		2	300	22	112
SB703661		2	350	17	209
SB703662		2	400	22	137
SB703663		2	450	28	213
SB703664		2	500	21	189
SB703665		2	550	45	220
SB703666		2	600	49	177
SB703667		2	650	16	143
SB703668		2	700	28	164
SB703669		2	800	34	174
SB703670		2	850	23	171
SB703671		2	900	29	208

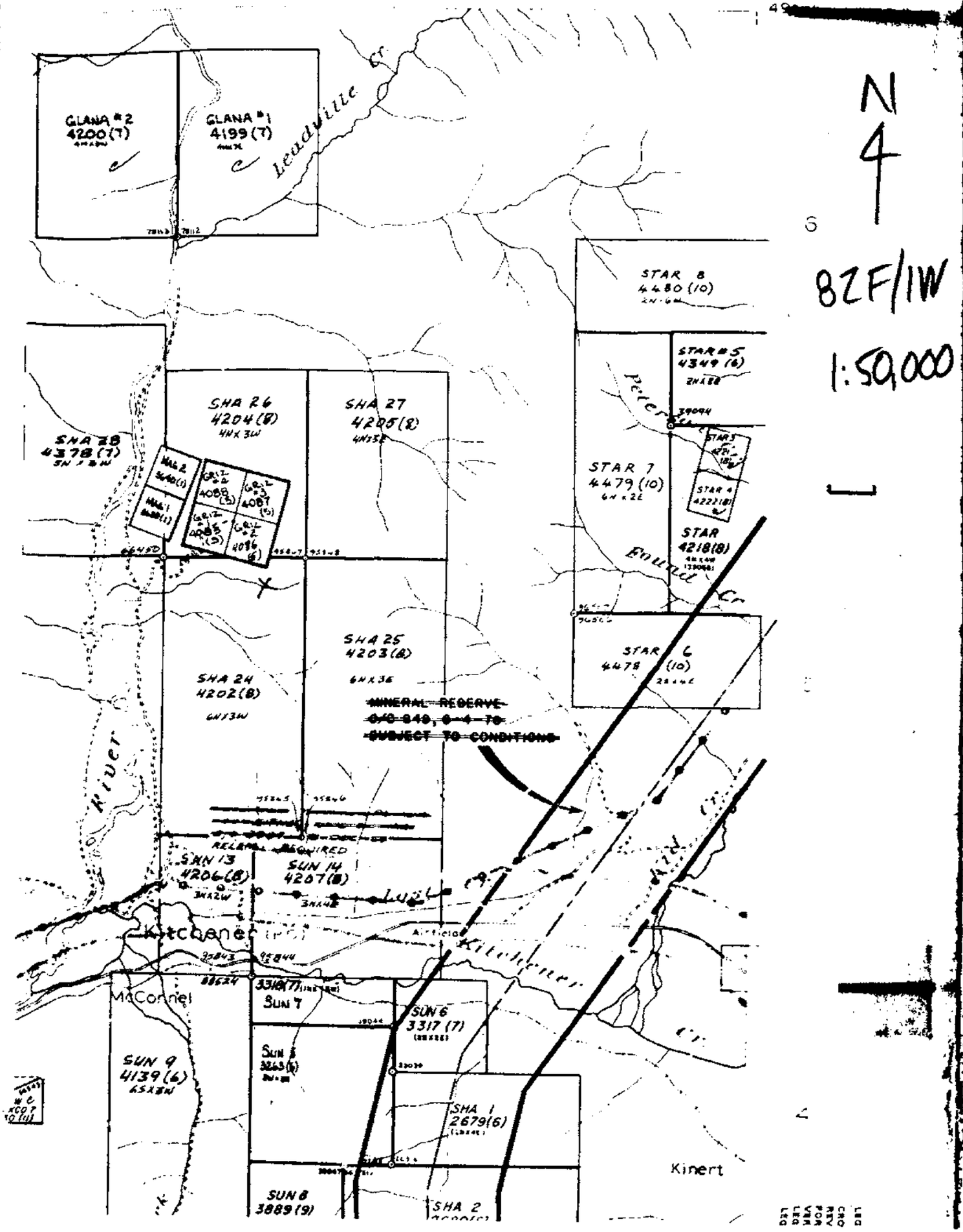
LAB NO	FIELD NUMBER	East+ West-	North+ South-	Pb PPM	Zn PPM
SB703672		3	0	13	133
SB703673		3	50	18	104
SB703674		3	100	16	123
SB703675		3	150	14	112
SB703676		3	200	16	106
SB703677		3	250	10	104
SB703678		3	300	11	240
SB703679		3	350	15	67
SB703680		3	400	16	140
SB703681		3	450	16	125
SB703682		3	550	16	143
SB703683		3	600	13	117
SB703684		3	650	13	98
SB703685		3	700	50	323
SB703686		3	750	15	127
SB703687		3	800	18	181
SB703688		3	850	12	87
SB703689		3	900	13	168
SB703690		4	0	15	88
SB703691		4	50	14	108
SB703692		4	100	12	125
SB703693		4	150	16	117
SB703694		4	250	16	155
SB703695		4	300	21	133
SB703696		4	350	22	104
SB703697		4	400	32	221
SB703698		4	450	11	122
SB703699		4	500	12	123
SB703700		4	550	19	168
SB703701		4	600	22	105
SB703702		4	650	36	187
SB703703		4	700	19	125
SB703704		4	750	24	240
SB703705		4	800	21	200
SB703706		4	850	25	257
SB703707		4	900	32	182
SB703708		5	0	14	81
SB703709		5	50	24	85
SB703710		5	100	20	111
SB703711		5	150	14	95
SB703712		5	200	19	105
SB703713		5	250	27	160
SB703714		5	300	24	122
SB703715		5	350	179	473
SB703716		5	400	19	98
SB703717		5	450	34	249
SB703718		5	500	27	90
SB703719		5	550	23	85
SB703720		5	600	28	213
SB703721		5	650	25	154
SB703722		5	700	54	247
SB703723		5	750	41	142
SB703724		5	800	24	105
SB703725		5	850	40	113

LAB NO	FIELD NUMBER	EAST+ WEST-	NORTH+ SOUTH-	PB PPM	ZN PPM
SB703726		5	900	20	66
SB703727		6	0	13	58
SB703728		6	50	21	47
SB703729		6	100	19	100
SB703730		6	150	16	107
SB703731		6	200	17	104
SB703732		6	250	14	66
SB703733		6	300	19	104
SB703734		6	350	11	117
SB703735		6	400	14	72
SB703736		6	450	43	128
SB703737		6	500	14	67
SB703738		6	550	18	80
SB703739		6	600	14	76
SB703740		6	650	12	73
SB703741		6	700	8	48
SB703742		6	750	10	75
SB703743		6	800	9	78
SB703744		6	850	12	106
SB703745		6	900	24	165
SB703746		7	0	15	76
SB703747		7	50	14	71
SB703748		7	100	16	65
SB703749		7	150	16	101
SB703750		7	200	16	80
SB703751		7	250	15	77
SB703752		7	300	15	75
SB703753		7	350	17	67
SB703754		7	450	10	105
SB703755		7	500	17	137
SB703756		7	550	14	66
SB703757		7	600	17	113
SB703758		7	650	25	147
SB703759		7	700	32	79
SB703760		7	750	17	105
SB703761		7	800	13	126
SB703762		7	850	16	147
SB703763		7	900	19	101
SB703764		3	0	19	96

I=INSUFFICIENT SAMPLE X=SMALL SAMPLE E=EXCEEDS CALIBRATION C=BEING CHECKED R=REVISED
IF REQUESTED ANALYSES ARE NOT SHOWN ,RESULTS ARE TO FOLLOW

ANALYTICAL METHODS

PB 20% HNO3 DECOMPOSITION / AAS
ZN 20% HNO3 DECOMPOSITION / AAS



N
4

82F/1W

1:50,000

SHA 28

SHA 26

SHA 24

GOAT RIVER

900

800

800

600

1000

1200

1300

1400

1500

1700

Values in parts per million

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SCALE

0 100 200 300 meters

SHA PROPERTY

Drawn by:		Traced by:	
Revised by	Date	Revised by	Date

SOIL GEOCHEM: ZINC

Scale: 1:5000 Date: Plate: 1.

SHA 28

SHA 26

SHA 24

GOA. RIVER

Values in parts per million

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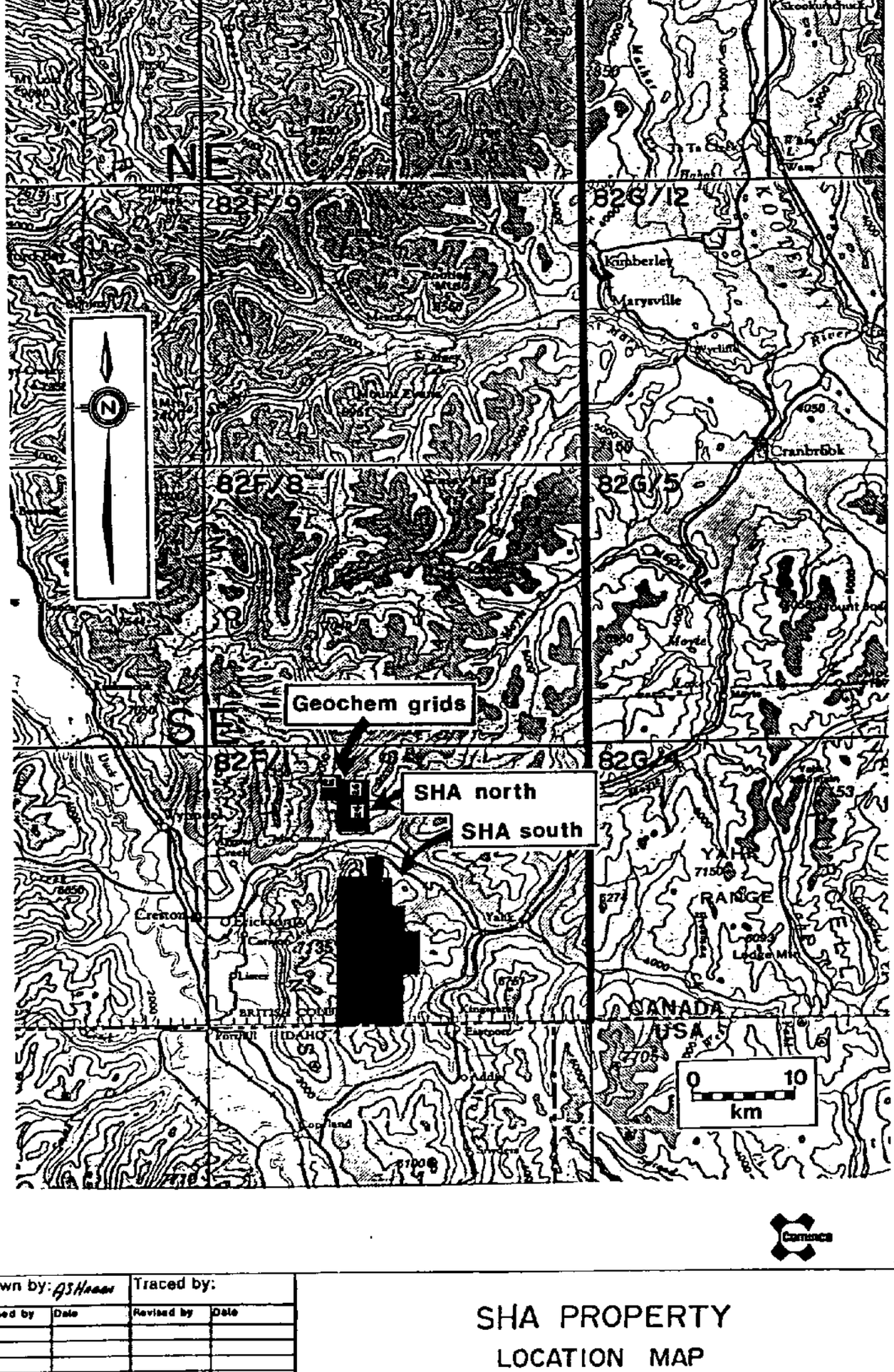
SCALE
0 100 200 300 meters

SHA PROPERTY

Drawn by	Traced by
Standard by / Date	Revised by / Date

SOIL GEOCHEM: LEAD

Scale: 1:5000 Date: Plate: 2



Drawn by: GS Hanson		Traced by:	
Revised by	Date	Revised by	Date

SHA PROPERTY
LOCATION MAP

Scale: 1:500,000 | Date: Dec./86. | Plate: 3.

BCH-2187-C

210-0010