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ACTION:	
FILE NO: 87-700-16526	

10/88

GEOCHEMICAL REPORT
ON THE
SILVER BOW GROUP
SKEENA MINING DIVISION

103P/13W
55° 59' N ^{48"} 129° 53' W ^{54"}

BY

P. FOLK, P.ENG.

OF

Owner: TECK EXPLORATIONS LIMITED

Operator: Teck Corporation

**GEOLOGICAL BRANCH
ASSESSMENT REPORT**

16,526

SUB-RECORDER RECEIVED OCT 27 1987 M.R. # \$ VANCOUVER, B.C.

OCTOBER, 1987

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SILVER BOW GROUP

Geochemical Report

Introduction

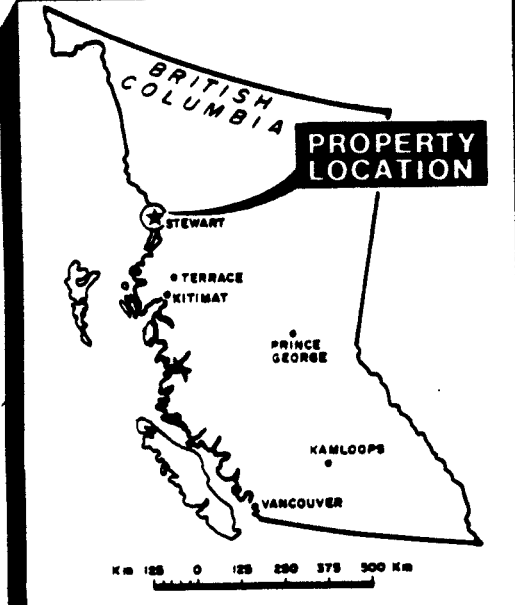
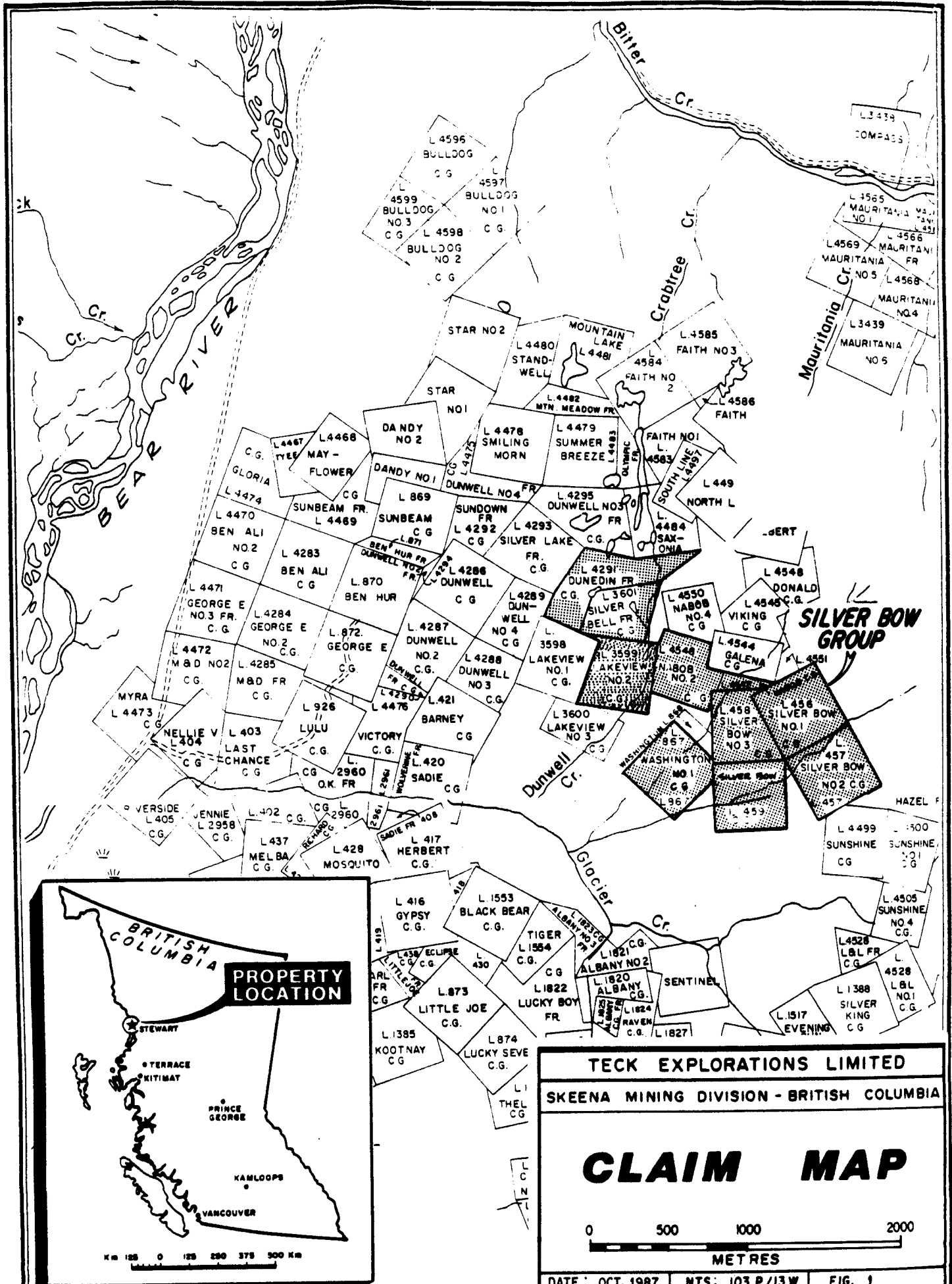
The claims are located about 8.5 km northeast of Stewart, B.C. on the north side of Glacier Creek and at an elevation ranging from 500 m to 1,060 m.

The topographic relief is moderate to steep. The southwest facing slope on which the claims are located is thickly timbered with virgin hemlock, balsam and some cedar. Evidence of black bears is plentiful. Access from Stewart is by helicopter which can land in the swamp immediately south of the pond on the Silver Bell Fr. The old horsetrails leading to the different claims on the property are excessively overgrown and therefore not suitable for access.

The present work was carried out by Teck personnel from June 24 to June 27 of this year. The work consisted of soil geochemistry on two small grids combined with prospecting. The results of the survey are shown on figures 2, 3 and 4. A total of 42 soil samples were collected and analysed for Ag, Au, Pb and Zn as were 11 rock samples. The work was done on the Silver Bell Fr. and the Dunedin Fr. Mineral Claims and the Lakeview #2 Crown Grant.

Property Definition

Silver Bow Group consists of the following eight reverted crown granted mineral claims and the Lakeview #2 Crown Grant (Lot 3599).



TECK EXPLORATIONS LIMITED
 SKEENA MINING DIVISION - BRITISH COLUMBIA

CLAIM MAP



<u>Name</u>	<u>Lot Number</u>	<u>Record Number</u>	<u>Hectares</u>
Silver Bow No. 1	456	4714 (12)	20.9
Silver Bow No. 2	457	4715 (12)	29.9
Silver Bow No. 3	458	4716 (12)	15.87
Silver Bow No. 4	459	4717 (12)	20.9
Washington No. 1	867	4718 (12)	20.36
Nabob/Nabob No. 2	4547/4548	4722 (12)	18.09
Silver Bell Fr.	3601	4719 (12)	14.29
Dunedin Fr.	4291	4720 (12)	19.11
Lakeview #2 C.G.	3599	-	19.16

Expiry date for all claims is December 31, 1987.

Current owner is Teck Explorations Limited of Vancouver, B.C. The Lakeview #2 Crown Grant is owned by Teck Corporation.

History

The first mention of the Silver Bow Group is in the 1904 B.C. Minister of Mines Annual Report. The Silver Bow Group at that time consisted of the Silver Bow No. 1 to No. 4 and the Washington No. 1 claims. Work in 1904 and 1905 and again in 1910, when those claims were crown granted, consisted of a short adit and some open cuts. In 1965 these claims formed part of the R.A.F. Group. The results of the work done at this time is not known.

No work is recorded on the Nabob/Nabob No. 2, Silver Bell Fr. or the Dunedin Fr. The Lakeview No. 2 crown grant which joins Nabob No. 2 to the east and Silver Bell Fr. to the north shipped a total of 66 tons of high grade ore between the years 1913 and 1936. The old Dunwell Mine is located 2 to 3 km to the west of the claim group.

General Geology

The area is underlain by upper Jurassic sedimentary and volcanic rocks of the Bowser assemblage. The regional strike is northerly with a steep westerly dip. Numerous Tertiary age dykes of felsic and mafic composition cut the Jurassic rocks. A strong ENE fault runs along the east branch of Maud Gulch on the Silver Bow Claims.

Geochemistry

Forty two soil samples were collected at 10 m intervals along flagged grid lines. The samples were placed in kraft paper bags and shipped to Acme Analytical Laboratories Ltd. of Vancouver, B.C. Ag, Pb and Zn were analysed by the ICP - method. The Au was analysed by the standard atomic absorption method from a 10 gram sample. Details of the analysing technique are included in the heading of the laboratory assay sheets. (Appendix)

The samples were collected from the top B-horizon by using a mattock to dig holes to a depth of 25 to 30 cm. The soil on the properties is well developed with a good layer of organic material (A-horizon) on the top 10 to 20 cm. The lines were established with the use of hip-chain and Silva-compass. Eleven rock samples were taken on the Lakeview veins and in the vicinity of anomalous soil samples resulting from work done in 1985.

Results

Geochemical results for Au, Ag, Ph, Zn are plotted on figures 3 and 4. Figure 2 which shows the results obtained in 1985 is also a location map for the detailed geochemical surveys.

The #3 grid (fig. 3) was emplaced to better define anomalous soil results indicated by reconnaissance sampling in 1985. Three samples strongly anomalous in silver (7.2 PPM, 7.5 PPM and 13.2 PPM) were obtained in the vicinity of the 1985 anomaly but no obvious mineralization was seen in local outcrops. A rock

2+90 W

2+70 W

2+50 W

2+30 W

2+10 W

1+90 W



10 40
1.5 + 27

25 27
0.6 + 4

13 35
1.4 + 2

OLD TRENCH

5 28
1.1 + 2

3 16
0.2 + 5

5 18
0.5 + 430

3 22
1.2 + 45

2 18
0.3 + 11

6 26
2.1 + 12

9 11
0.4 + 85

14 18
1.4 + 21

10 30
3.6 + 32

12 29
1.4 + 16

5 11
0.4 + 22

3 14
0.4 + 4.2

5 19
4.3 + 325

38 45
1.7 + 58

6 20
1.8 + 57

13 27
1.8 + 36

7 19
2.2 + 24

8 25
0.9 + 15

13 38
2.0 + 1

7 27
3.7 + 1

60 ppb Au ANOMALY

7 9
0.2 + 26

18 43
2.4 + 17

9 34
0.6 + 23

35 69
7.5 + 25

22 215
7.2 + 5

7 37
1.4 + 21

7 22
0.6 + 42

7 25
0.5 + 56

2% Py. FINE GR.
FELSIC INT.
LIMONITIC

16 19
0.4 + 10

10 15
0.9 + 3

75 175
1.8 + 11

86 125
13.2 + 23

14 106
2.7 + 7

FINE GR. INTRUSIVE
QTZ. DIORITE
FEW SPECKS Py

7 ppm Ag ANOMALY

FINE GR. RHYOLITE OR CHERTY SEDS.
3% Py

7 22
0.6 + 42

7 25
0.5 + 56

Sample N°	Pb ppm	Zn ppm	Ag ppm	Au ppb
7	100	211	2.6	20
8	18	79	0.5	6
9	8	55	0.2	3

LEGEND

(Values in ppm)

Pb + Zn
Ag + Au (ppb)

Outcrop

Swamp

SILVER BELL FRACTION

3 GRID



FIG. 3

4+20 W

4+00 W

3+80 W

3+60 W

3+40 W



10 - 8ppm Pb, 55 ppm Zn, 0.2 ppm Ag, 3ppb Au

OUTCROP
HORNBLLENDE
QTZ. DIORITE

P₂

P₂, Qtz.

16 35

0.8 + 3

81 43

0.9 + 15

12 49

1.0 + 7

11 67

2.6 + 2

7 26

4.7 + 1

40 77

1.7 + 5

0+30 N

0+20 N

0+10 N

0+00

LEGEND

(Values in ppm)

Pb Zn

Ag + Au (ppb)

DUNEDIN FRACTION

4 GRID



sample taken up slope from the soil anomaly assayed 2.6 PPM Ag which probably does not explain the soil anomaly.

About 30 m northwest a gold-in-soil anomaly with values of 325 PPB, 430 PPB and 85 PPB occurs in a northeast trending zone. Silver values in this zone are erratic with a maximum value of 4.3 PPM. Pb and Zn values are very low. A source for the gold values is presently unknown.

The #4 grid (Fig. 4) essentially repeated a 4.4 PPM Ag sample but did not expand the anomaly. A rock sample taken above in the best mineralized portion of a large outcrop contained no values of interest.

Rock samples taken elsewhere on the group are plotted on figure 2. The best of these are from the Lakeview veins which are cross-cutting quartz veins up to 2.85 m thick containing pyrite, arsenopyrite, phalerite and galena. A summary of the rock assays is tabulated below.

Sample #	Pb PPM	Zn PPM	Ag PPM	Au PPB	Notes
1	19,194	70,366	264.5	1,460	Lakeview, grab from dump
2	217	1,610	7.4	860	Lakeview, 40 cm sample, below cabin
3	3,575	49	526.5	3,100	Lakeview, 15 cm
4	7,668	13,260	282.7	2,700	Lakeview, 285 cm @ x-cut
5	141	319	4.1	92	Silver Bell Fr., @ LV 2+50 grab
6	63	181	4.8	26	Silver Bell Fr., @ LV 2+60 grab
7	100	211	2.6	20	Silver Bell Fr., grab
8	18	79	.5	6	Silver Bell Fr., grab, Py, Mn
9	8	36	.5	12	Silver Bell Fr., old trench
10	8	55	.2	3	Dunedin Fr., grab, Py, Qtz.
11	73	444	4.9	31	Nabob, adit, rusty zone

Conclusions

Limited gold and silver soil anomalies without explanation occur on the #3 grid area of the Silver Bell Fraction. Gold values up to 430 PPB Au, 13.2 PPM Ag were attained in these soil anomalies.

The best rock assays are from the Lakeview veins and are of potentially economic tenor.

Recommendation

Hand trenching in the vicinity of the anomalous gold and silver soil samples on the #3 grid area of the Silver Bell Fraction is recommended. Preliminary soil geochemistry, rock sampling and mapping are recommended for the Lakeview Crown Grant.

Respectfully Submitted,

A handwritten signature in cursive script, appearing to read "P. Folk".

October, 1987

P. Folk, P.ENG.

ITEMIZED COST STATEMENT

P. Folk, P.Eng. June 24-27 4 days @ \$230/D	\$ 920
J. Bacon, Prospector, June 24-27 4 days @ \$132/D	\$ 528
Assays - Acme Analytical Labs, Vancouver 11 rock and 42 soil samples	\$ 636
Camp supplies, food, camp, radio rental, misc.	\$ 400
Helicopter, Vancouver Island Helicopter, Bell 206 Jet Ranger, Stewart, B.C. June 24 - 0.3 hrs., June 26 0.2 hrs. 0.5 hr x \$650/hr	\$ 325
Travel costs to Stewart, Truck Rental	\$ 600
Report preparation, drafting	\$ 600
	<hr/>
	\$ 4,009


P. Folk, P.ENG.

CERTIFICATE OF QUALIFICATIONS

Peter G. Folk, P.ENG.

I hereby certify that:

1. I graduated from the University of British Columbia in 1971 with a B.A.S.C. degree in geological engineering.
2. I am a member in good standing of the Association of Professional Engineers of the Province of British Columbia.
3. I have worked since graduation as an exploration geologist and mine geologist in Canada and the United States.
4. The work described herein was done under my direct supervision.

P. Folk, P.Eng.

APPENDIX

LABORATORY RESULTS

1337

ACME ANALYTICAL LABORATORIES
852 E. HASTINGS ST. VANCOUVER B.C. V6A 1R6
PHONE 253-3158 DATA LINE 251-1011

DATE RECEIVED: JULY 3 1987
DATE REPORT MAILED: *July 8/87*

GEOCHEMICAL ICP ANALYSIS

.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 CA P LA CR MG BA TI B W AND LIMITED FOR NA AND K. AU DETECTION LIMIT BY ICP IS 3 PPM.
- SAMPLE TYPE: Rock Chips AU* ANALYSIS BY AA FROM 10 GRAM SAMPLE.

ASSAYER: *D. Toy* DEAN TOYE, CERTIFIED B.C. ASSAYER

TECK EXPLORATION PROJECT-SILVER BOW File # 87-2179

SAMPLE#	PB PPM	ZN PPM	AG PPM	AU* PPB
1	19194	70366	264.5	1460
2	217	1610	7.4	860
3	3575	49	526.5	3100
4	7668	13260	282.7	2700
5	141	319	4.1	92
6	63	181	4.8	26
7	100	211	2.6	20
8	18	79	.5	6
9	8	36	.5	12
10	8	55	.2	3
11	73	444	4.9	31
STD C/AU-R	40	140	7.1	510

ASSAY REQUIRED FOR *Pb > 10,000 ppm*
Zn > 20,000 ppm
Ag > 35 ppm

GEOCHEMICAL ICP ANALYSIS

.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 CA P LA CR MG BA TI B W AND LIMITED FOR NA AND K. AU DETECTION LIMIT BY ICP IS 3 PPM.

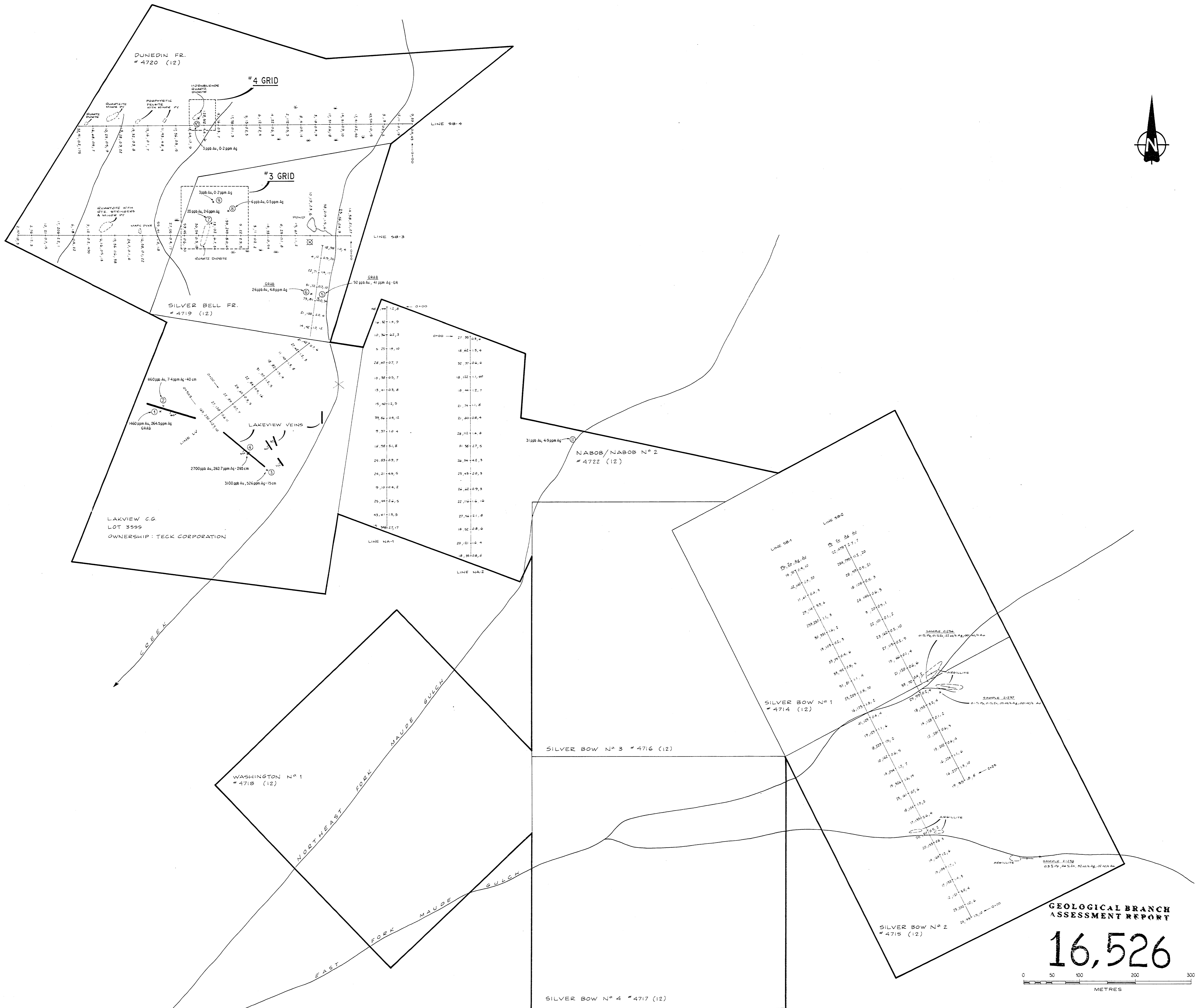
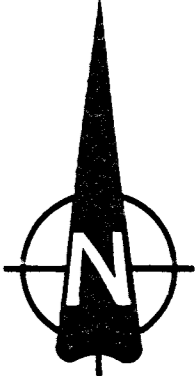
- SAMPLE TYPE: SOILS -80MESH AU* ANALYSIS BY AA FROM 10 GRAM SAMPLE.
P-20 MESH, PULVERIZED

ASSAYER: *D. Toye* DEAN TOYE, CERTIFIED B.C. ASSAYER

TECK EXPLORATION SILVER BOW File # 87-2189 Page 1

SAMPLE#	PB PPM	ZN PPM	AG PPM	AU* PPB
#3 0+50N 2+70W	10	40	1.5	27
#3 0+50N 2+60W	25	27	.6	4
#3 0+50N 2+50W	13	35	1.4	2
#3 0+40N 2+70W	5	28	1.1	2
#3 0+40N 2+50W	3	16	.2	5
#3 0+40N 2+40W	5	18	.5	430
#3 0+40N 2+30W	3	22	1.2	45
#3 0+40N 2+10W P	2	18	.3	11
#3 0+30N 2+70W P	6	26	2.1	12
#3 0+30N 2+60W	9	11	.4	85
#3 0+30N 2+40W	14	18	1.4	21
#3 0+30N 2+30W	10	30	3.6	32
#3 0+30N 2+20W	12	29	1.4	16
#3 0+30N 2+10W	5	11	.4	22
#3 0+30N 2+00W	3	14	.4	2
#3 0+20N 2+70W	5	19	4.3	325
#3 0+20N 2+60W	38	45	1.7	58
#3 0+20N 2+50W	6	20	1.8	57
#3 0+20N 2+40W	13	27	1.8	36
#3 0+20N 2+30W P	7	19	2.2	24
#3 0+20N 2+20W P	8	25	.9	15
#3 0+20N 2+10W P	13	38	2.0	1
#3 0+20N 2+00W P	7	27	3.7	1
#4 #3 0+20N 3+70W Pw	16	35	.8	3
#3 0+10N 2+70W	7	9	.2	26
#3 0+10N 2+60W	18	43	2.4	17
#3 0+10N 2+50W	9	34	.6	23
#3 0+10N 2+40W	35	69	7.5	25
#3 0+10N 2+30W P	22	215	7.2	5
#3 0+10N 2+20W	7	37	1.4	21
#3 0+10N 2+10W	7	22	.6	42
#3 0+10N 2+00W	7	25	.5	56
#4 #3 0+10N 3+70W Pw	81	43	.9	15
#3 0+00N 2+70W	16	19	.4	10
#3 0+00N 2+60W	10	15	.9	3
#3 0+00N 2+50W	75	175	1.8	11
STD C/AU-S	40	131	7.0	51

SAMPLE#	FB PPM	ZN PPM	AG PPM	AU* PPB
#3 O-N 2+40W	86	125	13.2	23
#3 O-N 2+30W ^P	14	106	2.7	7
#4 O-N 3+70 E W	40	77	1.7	5
#4 O-N 3+80 E PW	7	26	4.7	1
#4 O-N 3+90 E PW	11	67	2.6	2
#4 O-N 4+00 E W	12	49	1.0	7



**GEOLOGICAL BRANCH
ASSESSMENT REPORT**

16,526

0 50 100 200 300
METRES

LEGEND

24, 133, 15, 10 = Pb, Zn, Ag, Au
ppm ppm ppm ppm

— VEIN

⊙ ROCK SAMPLING

TECK EXPLORATIONS LIMITED

SKEENA MINING DIVISION - BRITISH COLUMBIA

SILVER BOW GROUP

RECONNAISSANCE SOIL

GEOCHEM MAP

Pb, Zn, Ag, Au

COMPILED: GL., PF. DRAWN: WR. DATE: OCT. 1987. NTS: 103 P/13W FIG. 2