

COMINCO LTD.

EXPLORATION
NTS: 92H/16

WESTERN DISTRICT
January 6, 1982

ASSESSMENT REPORT 1981

SOIL GEOCHEMISTRY

ON THE TROUT PROPERTY

(Trout 1 and 6 Claims)

SIWASH LAKE AREA, SIMILKAMEEN M.D., B.C.

(Work performed May 27 to October 8, 1981)

LATITUDE: 49⁰50'N

LONGITUDE: 120⁰15'W

REPORT BY:

R.A. Ryziuk

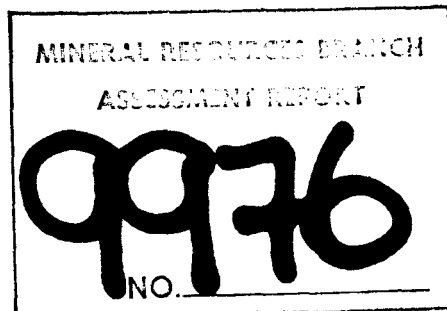


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(Trout 1 and 6 Claims)

SIWASH LAKE AREA, SIMILKAMEEN M.D., B.C.

SUMMARY

The Trout Property is located 38 km west of Peachland B.C. and 16 km southwest of the Brenda Mine.

Work on the Trout Property for 1981 included soil sampling on Trout 1 and the staking and soil sampling of Trout 6 (see Plate 2). In all, 8.2 km of line were flagged and 199 soil samples were collected. The sampling better defined the Lac La Ronnie anomaly on Trout 1 but failed to isolate a source for the high Mo in silts on Trout 6.

More detailed geochemistry and geological mapping of the property are recommended.

INTRODUCTION

The Trout Property was acquired late in 1979 to protect Mo stream silt anomalies in Galena Creek.

The Trout 6 claim was staked in May of 1981 to protect Mo stream silt anomalies in the area. Work on the claim consisted of 4.2 km of grid and 115 soil samples taken on or near the grid. This work was done by R.A. Ryziuk, Doug Pauls and Dan Pauls.

Work on the Trout 1 claim included the addition of 4 line Km of grid and the collection of 84 soil samples. This work was done by R.A. Ryziuk.

LOCATION AND ACCESS

The property is located 38 km west of Peachland, B.C. and 16 km southwest of the Brenda Mine. (Plate 1)

The property is about a one hour drive from Peachland along the Peachland Main logging road.

TOPOGRAPHY AND VEGETATION

The Trout claims lie at an elevation of 1500 to 1700 m and are found on the south slope of the Culmination Point divide. They are covered by a thick blanket of spruce which has been extensively logged over the past 10 years.

PROPERTY AND OWNERSHIP

The Trout property consists of the following Trout claims(100% owned by Cominco Ltd., see Plate 2).

<u>CLAIM</u>	<u>RECORD NUMBER</u>	<u>NUMBER OF UNITS</u>	<u>DUE DATE</u>
TROUT 1	917	20	Dec.28/83
TROUT 3	919	9	Dec.28/82
TROUT 6	1426	12	June 10/82

PREVIOUS WORK

The only known work in the vicinity of the property was by Noranda in 1966 and 1967. No work was filed but it is believed that silt and soil geochemistry was done.

Cominco Ltd. did silt and soil goechem, and geological mapping in 1980 as stated in the 1980 assessment report for the property.

REGIONAL GEOLOGY

The oldest rocks in the area are Upper Triassic volcanic rocks of the Nicola group. They consist of alkaline and calc-alkaline basalt flows and volcanoclastic rocks. This sequence is cut by granitic rocks of the Jurassic Okanagan complex which are in turn cut by Tertiary granites. Rocks of the first two units are unconformably overlain by Tertiary basalt flows.

PROPERTY GEOLOGY

The geology of the claim group is shown in Plate 3. It consists of medium to coarse grained porphyritic quartz monzonite that typically contains 30% quartz, 45% plagioclase, 20% K-feldspar with 5% mafics and has about 20% quartz and K-feldspar phenocrysts.

Alteration patternsⁿ(Plate 3) are difficult to discern as the area is very poorly exposed. However, two areas showing obvious limonite, Mn oxide, chlorite and sericite are present. One occurs just off the Trout 1 claim to the northwest and the other is near 25S/28E. No quartz veinlets were seen except between 5 and 10S on the Peachland Main road.

MINERALIZATION

Trace amounts of MoS₂ occur in three locations(Plate 2). None of these showings are of interest except as an indicator of potentially significant showings as yet undiscovered.

SOIL GEOCHEMISTRY

Trout 6 was staked on the basis of several high(10-33ppm) Mo silt samples. Three grid lines were flagged and sampled at 50 m intervals in an attempt to isolate the source. 87 soil samples failed to explain the high silt values, but a further 28 samples taken along the banks of the creek at 100 m intervals did yield one weak source.(see Plate 4)

Work on the Trout 1 claim in 1980 showed a soil anomaly near Lac La Ronnie to be open to the north. In 1981, the soil grid was extended to the north in an attempt to define the limits of the anomaly. The 84 samples did close the anomaly for the most part, however, a northerly trending zone 150 m wide is still open to the north (see Plate 4).

All soil samples in 1981 were collected from the B horizon at a depth of 12-20 cm. The 199 samples were analyzed for Mo, Cu, Zn and Mn at Cominco's laboratory in Vancouver using a Zn dithiol colorimetric method after a $\text{HClO}_4\text{-HNO}_3$ digestion (coefficient of variation of about 15%).

The Cu and Zn values do not show any obvious patterns. However, there does seem to be a correlation between high Mo and Mn values. (Appendix "A")

CONCLUSIONS

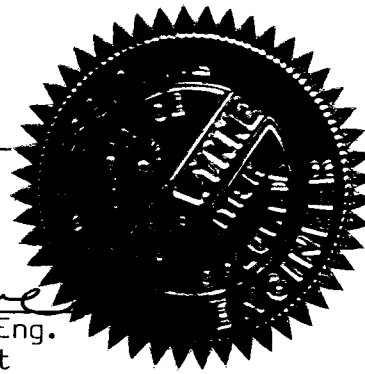
- 1.) The source of the high Mo in silts on Trout 1 is still unknown.
- 2.) The soil anomaly near Lac La Ronnie is still interesting and deserves limited work.

RECOMMENDATIONS

- 1.) On the Trout 6 claim, an attempt should be made to explain the high Mo values in the silts. Detailed mapping of outcrop and boulders near the creek, and fill in soil sampling around the 10N/5W station may yield more clues.
- 2.) Further work on the Trout 1 claim should include the following: Extension of the grid to the north to close the anomaly; fill in soil lines between existing lines; detailed geological mapping; trenching at 10N/11W and percussion drilling.

Reported by: *R.A. Ryzik*
R.A. Ryzik
Technician II

Endorsed by: *F.L. Wynne*
F.L. Wynne P. Eng.
Senior Geologist



Approved for
Release by: *M.J. Mead* for
G. Harden
Manager, Exploration
Western District

RAR/sw

Distribution:

Dept. of Mines(2)
West. Dist. File(1)
Vernon File(1)

APPENDIX "A"

Cu, Zn, Mo, Mn Values in Soil Samples

FIELD NUMBER	TYPE	Cu PPM	Zn PPM	Mo PPM
L0 0	W	9	22	<2
L0 50	W	4	18	<2
L0 100	W	9	17	<2
L0 150	W	10	38	<2
L0 200	W	10	39	2
L0 250	W	9	32	<2
L0 300	W	9	28	<2
L0 350	W	18	83	7
L0 400	W	8	28	<2
L0 450	W	10	26	<2
L0 500	W	8	15	<2
L0 550	W	7	33	<2
L0 600	W	6	20	<2
L0 650	W	9	30	<2
L0 700	W	7	29	<2
L0 750	W	10	28	<2
L0 800	W	14	83	5
L0 850	W	7	35	2
L0 900	W	5	27	<2
L0 950	W	7	27	<2
L0 1000	W	10	32	<2
L0 1050	W	7	34	<2
L0 1100	W	9	41	<2
L0 1150	W	11	40	<2
L0 1200	W	10	62	<2
L0 1250	W	12	46	<2
L0 1300	W	13	32	<2
L0 1350	W	17	44	<2
L0 1400	W	17	66	<2
L0 1450	W	17	77	<2
L5N 0	W	14	54	<2
L5N 50	W	20	77	2
L5N 100	W	12	81	3
L5N 150	W	11	112	2
L5N 200	W	11	91	3
L5N 250	W	13	72	4
L5N 300	W	13	82	2
L5N 350	W	5	39	9
L5N 400	W	10	49	2
L5N 450	W	12	51	4

FIELD NUMBER		TYPE		Cu	Zn	Mo
				PPM	PPM	PPM
6	L5N 500	W	S	14	74	<2
	L5N 550	W	S	17	70	<2
	L5N 600	W	S	13	44	<2
	L5N 650	W	S	16	107	<2
	L5N 700	W	S	11	149	<2
	L5N 750	W	S	9	96	2
	L5N 800	W	S	10	167	2
	L5N 850	W	S	12	164	<2
	L5N 900	W	S	14	138	3
	L5N 950	W	S	16	141	2
	L5N 1000	W	S	16	117	<2
	L5N 1050	W	S	14	174	<2
	L5N 1100	W	S	15	128	<2
	L5N 1150	W	S	13	183	3
	L5N 1200	W	S	12	72	<2
	L5N 1250	W	S	18	303	<2
	L5N 1300	W	S	13	245	<2
	L5N 1350	W	S	15	127	<2
	L5N 1400	W	S	15	191	<2
	L10N 0	W	S	13	34	3
	L10N 50	W	S	21	50	4
	L10N 100	W	S	16	65	6
	L10N 150	W	S	17	79	9
	L10N 200	W	S	20	95	5
	L10N 250	W	S	17	71	2
	L10N 300	W	S	13	50	<2
	L10N 350	W	S	11	30	<2
	L10N 400	W	S	15	28	5
	L10N 500	W	S	11	47	<2
	L10N 550	W	S	11	74	<2
	L10N 600	W	S	12	74	<2
	L10N 650	W	S	13	68	<2
	L10N 700	W	S	11	73	<2
	L10N 750	W	S	13	128	<2
	L10N 800	W	S	11	74	<2
	L10N 850	W	S	10	114	2
	L10N 900	W	S	10	102	<2
	L10N 950	W	S	10	103	<2
	L10N 1000	W	S	15	100	<2
	L10N 1050	W	S	11	150	<2
6	L10N 1100	W	S	11	154	<2
	L10N 1150	W	S	16	284	<2
	L10N 1200	W	S	14	98	<2
	L10N 1250	W	S	10	161	<2
	L10N 1300	W	S	10	199	<2
	L10N 13+50	W	ST	12	212	<2
	DP1 (L10N12+42W)		ST	10	133	<2
	DP2 (L10N13+80 W)		ST	10	97	15

FIELD NUMBER	TYPE	CU PPM	ZN PPM	MN PPM	MO PPM
S 1	S	7	33	69	2
S 2	S	7	20	80	12
S 3	S	12	51	92	5
S 4	S	11	26	68	12
S 5	S	4	40	550	20
S 6	S	2	13	26	12
S 7	S	12	47	810	18
S 8	S	7	21	67	12
S 9	S	9	30	84	12
S 10	S	9	30	84	12
S 11	S	8	27	68	12
S 12	S	12	35	160	12
S 13	S	5	36	54	12
S 14	S	13	37	67	12
S 15	S	6	61	144	12
S 16	S	6	28	58	12
S 17	S	5	28	58	12
S 18	S	8	81	72	2
S 19	S	8	86	74	12
S 20	S	10	96	136	3
S 21	S	9	77	86	12
S 22	S	13	97	94	2
S 23	S	6	120	114	2
S 24	S	10	74	116	2
S 25	S	7	103	166	12
S 26	S	6	174	170	12
S 27	S	10	235	254	2
S 28	S	10	164	484	8

FIELD NUMBER	TYPE	CU PPM	ZN PPM	MN PPM	MO PPM
X 1	S	10	49	181	7
X 2	S	8	41	238	3
X 3	S	8	22	84	4
X 4	S	6	13	109	4
X 5	S	8	19	143	3
X 6	S	8	20	446	3
X 7	S	8	19	110	6
X 8	S	8	27	730	3
X 9	S	11	26	627	3
X 10	S	10	22	300	2
X 11	S	11	25	467	2
X 12	S	9	23	130	2

E/W	N/S	Cu PPM	Zn PPM	Mn PPM	Mo PPM
-50	+5	7	25	266	5
-100	+5	6	24	404	2
-150	+5	7	20	236	2
-200	+5	7	18	320	4
-250	+5	8	25	145	3
-300	+5	7	24	268	3
-350	+5	7	26	261	3
-400	+5	6	23	228	5
-450	+5	4	16	58	3
-500	+5	3	32	250	2
-550	+5	7	24	414	3
-600	+5	6	25	742	3
-650	+5	7	24	392	3
-700	+5	9	21	123	5
-750	+5	15	27	244	2
-800	+5	10	30	304	2
-850	+5	13	24	266	10
-900	+5	9	27	337	4
-950	+5	10	26	214	4
-1000	+5	9	30	699	4
-1050	+5	4	16	81	5
-1100	+5	11	28	215	6
-1150	+5	8	25	1540	56
-1200	+5	9	29	397	4
-1250	+5	7	21	344	4
-1300	+5	5	16	110	5
-1350	+5	2	11	67	4
-1400	+5	2	10	84	3
-1450	+5	5	16	135	3
-1500	+5	5	15	205	3
-1550	+5	4	19	318	4
-1600	+5	8	14	74	9
-1650	+5	3	15	134	4
-1700	+5	5	21	170	5
-1800	+5	6	25	127	2
-1850	+5	5	14	39	3
-1900	+5	16	23	30	3
-1950	+5	8	27	382	2

E/W	N/S	Cu PPM	Zn PPM	Mn PPM	Mo PPM
-2000	+5	9	22	349	<2
-500	+10	10	24	113	<2
-550	+10	10	22	141	<2
-600	+10	8	25	266	2
-650	+10	11	23	162	<2
-700	+10	8	17	101	2
-750	+10	10	25	157	2
-800	+10	10	24	183	3
-850	+10	8	28	378	2
-900	+10	7	18	205	3
-950	+10	8	22	392	3
-1000	+10	7	17	230	3
-1050	+10	8	25	316	5
-1100	+10	7	28	498	18
-1150	+10	10	26	536	15
-1200	+10	8	21	392	3
-1250	+10	9	20	354	3
-1300	+10	8	20	442	3
-1350	+10	8	17	182	2
-1400	+10	5	16	114	2
-1450	+10	4	16	64	3
-1500	+10	6	14	93	3
-1550	+10	7	21	321	3
-1600	+10	6	17	258	3
-1650	+10	11	19	170	2
-1700	+10	11	21	285	3
-1750	+10	9	17	157	2
-1800	+10	8	28	112	2
-1850	+10	7	42	1520	7
-1900	+10	10	62	564	4
-1950	+10	10	25	205	3
-2000	+10	11	29	136	3

APPENDIX "B"

STATEMENT OF EXPENDITURES

FOR SOIL GEOCHEMISTRY

ON THE TROUT CLAIMS

SALARIES

R.A. Ryziuk	July 3, Oct. 6,7,8, 1981 Field (4days @\$150/day)	\$ 600.00
	Report writting & drafting (3days @\$150/day)	450.00
Doug Pauls, Dan Pauls	May 28,29, 1981 Field (4 man days @\$100/day)	400.00

TRUCK

Rental and fuel	394.00
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ANALYSES

87 soil samples for Cu,Zn,Mo @\$4.50/sample	392.00
112 soil samples for Cu,Zn,Mn,Mo @\$5.20/sample	582.00

DOMICILE

8 man days @\$50/day	400.00
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MISCELLANEOUS

flagging, bags, shipping, supplies	<u>200.00</u>
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TOTAL	3,418.00
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EXPLORATION

WESTERN DISTRICT


STATEMENT OF QUALIFICATIONS

I, ROBERT A. RYZIUK, OF THE CITY OF VERNON, BRITISH COLUMBIA, HEREBY CERTIFY:

1. THAT I AM A MINERAL EXPLORATION TECHNICIAN, RESIDING AT SITE 11, COMPARTMENT 7, R.R. # 1, VERNON, BRITISH COLUMBIA WITH A BUSINESS ADDRESS AT 4405 - 28th STREET, VERNON, BRITISH COLUMBIA.
2. THAT I GRADUATED FROM THE NORTHERN ALBERTA INSTITUTE OF TECHNOLOGY IN MINERAL RESOURCES TECHNOLOGY IN 1978.
3. THAT I HAVE WORKED IN MINERAL EXPLORATION WITH COMINCO LTD. FROM 1978 TO PRESENT.

DATED THIS 13th day of January 1982, at Vernon, British Columbia.

Signed: _____


R.A. Ryziuk



LEGEND

Mo SOIL CONTOURS

— 5 ppm

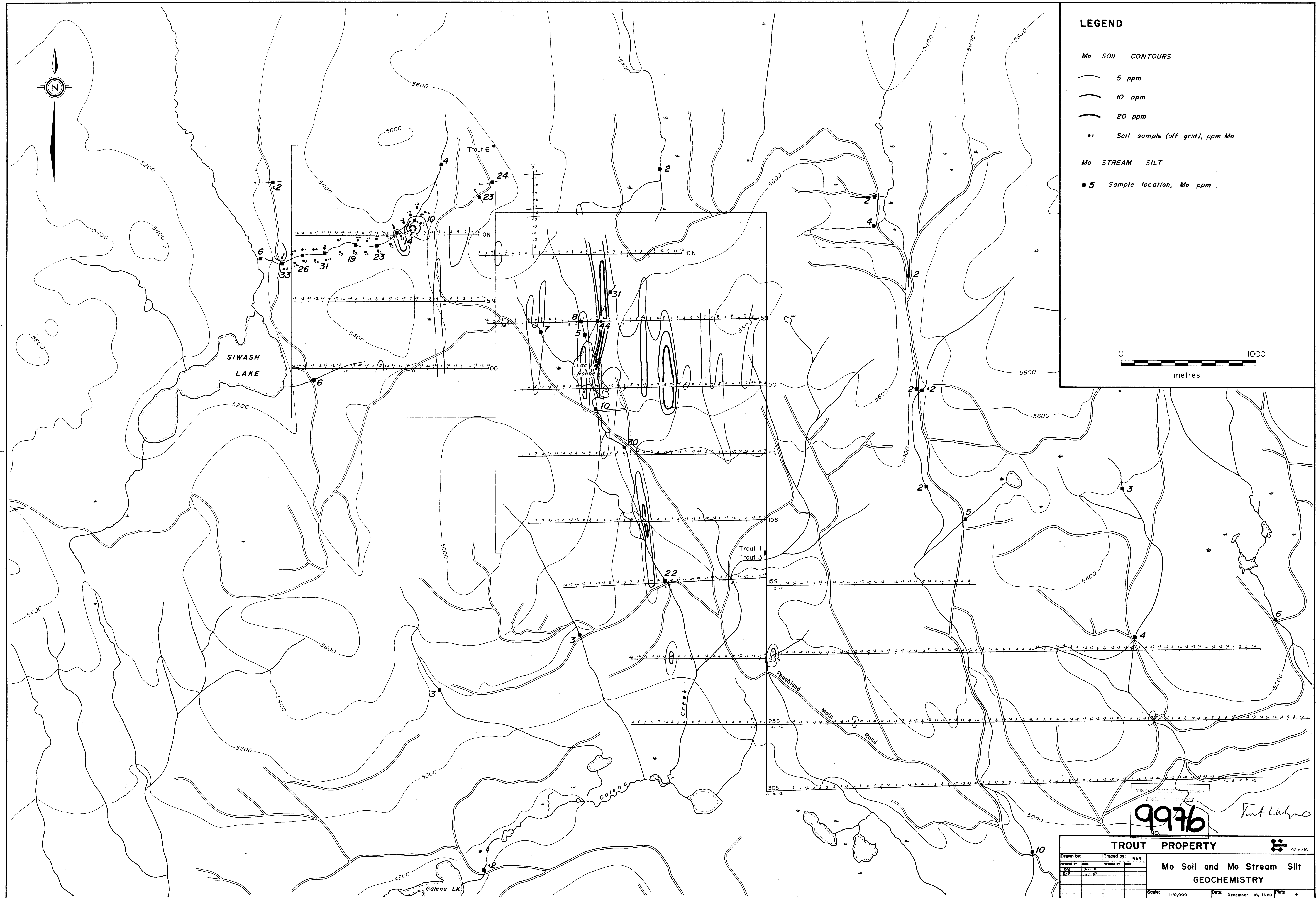
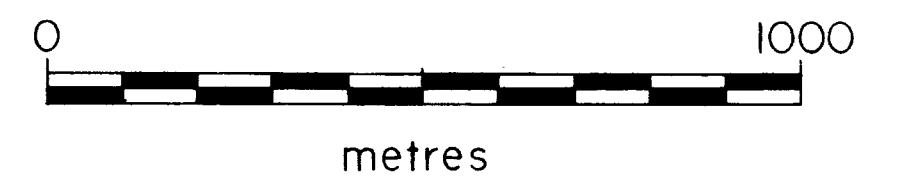
— 10 ppm

— 20 ppm

•• Soil sample (off grid), ppm Mo.

Mo STREAM SILT

■ 5 Sample location, Mo ppm.



9976
NO.

Trout Lab

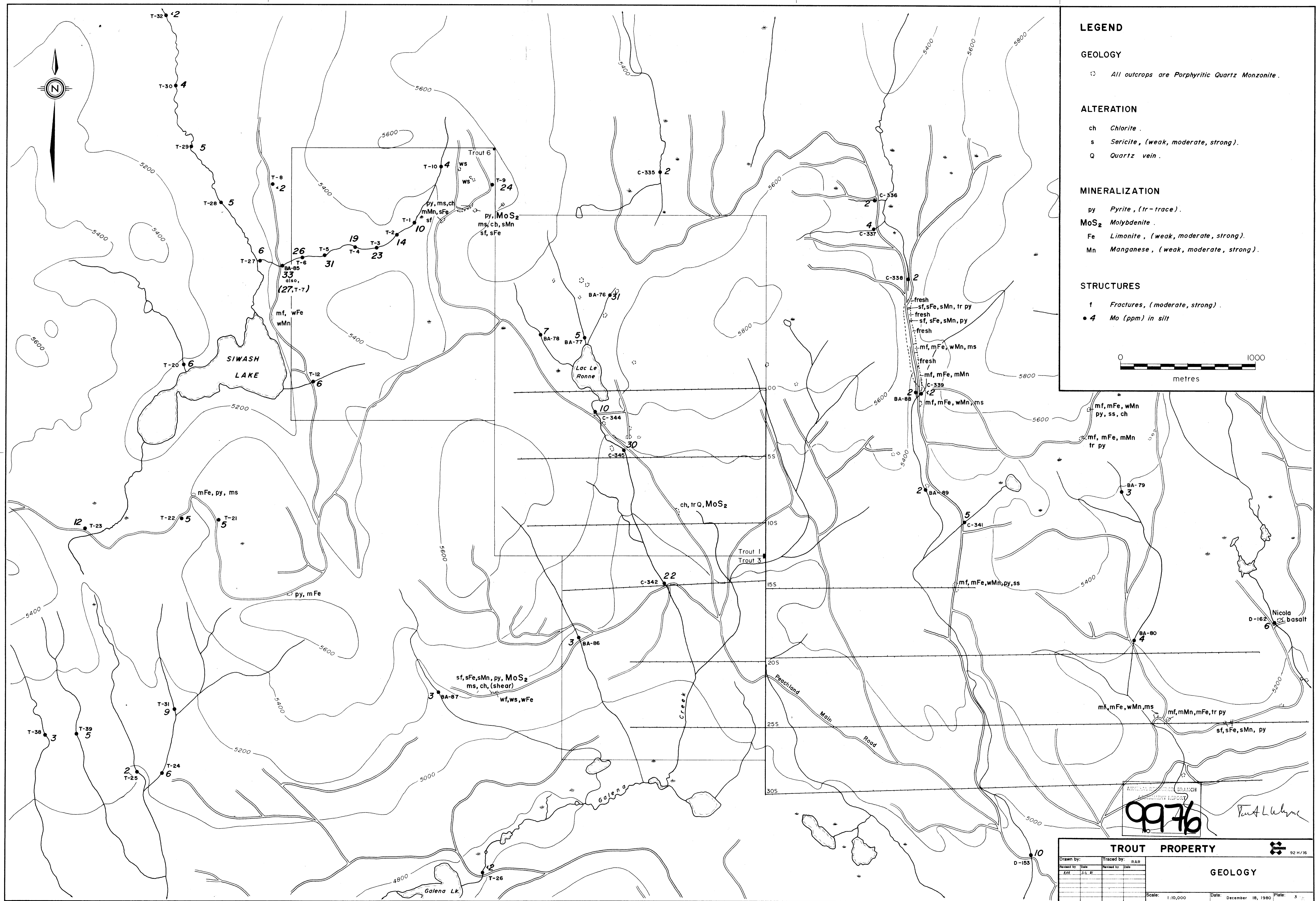
TROUT PROPERTY

92 H/16

Drawn by:	Traced by:	Revised by:	Revised by:
RAR	RAR		
Dec. 81	Dec. 81		
Dec. 81	Dec. 81		

**Mo Soil and Mo Stream Silt
GEOCHEMISTRY**

Scale: 1:10,000 Date: December 18, 1980 Plate: 4



LEGEND

GEOLOGY

○ All outcrops are Porphyritic Quartz Monzonite.

ALTERATION

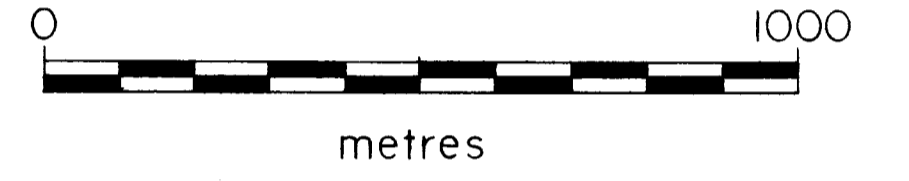
- ch Chlorite.
- s Sericite, (weak, moderate, strong).
- Q Quartz vein.

MINERALIZATION

- py Pyrite, (tr-trace).
- MoS₂ Molybdenite.
- Fe Limonite, (weak, moderate, strong).
- Mn Manganese, (weak, moderate, strong).

STRUCTURES

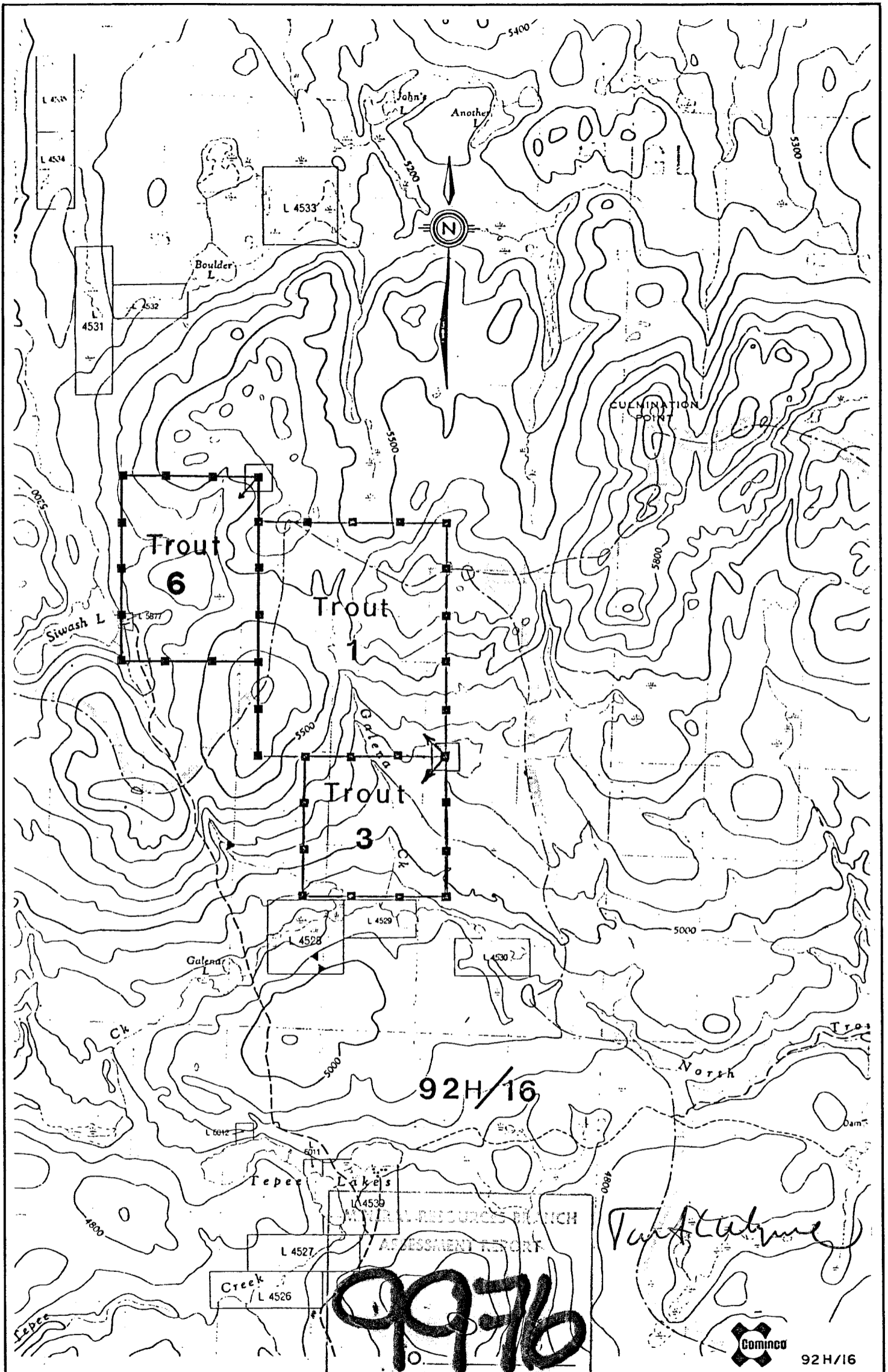
- f Fractures, (moderate, strong).
- 4 Mo (ppm) in silt



ANNUAL RESOURCE BRANCH
ASSESSMENT REPORT
9976

Paul L. Lohme

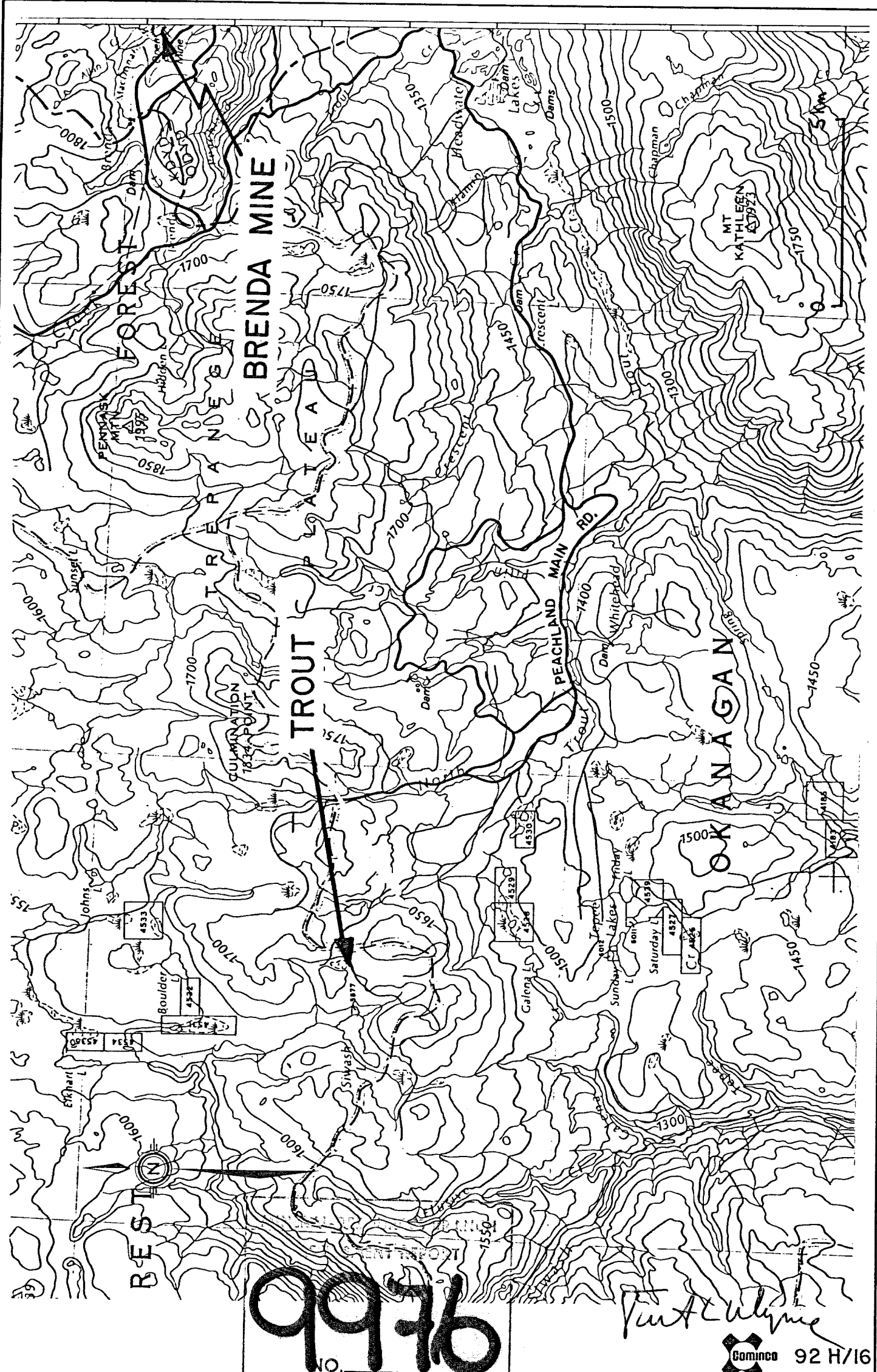
TROUT PROPERTY			
Drawn by:	Traced by:	RAR	
Revised by:	Revised by:	Date:	Date:
RAR	P.L.L.		
		GEOLOGY	
Scale: 1:10,000		Date: December 18, 1980	Plate: 3



Drawn by:	AB.	Traced by:	
Revised by	Date	Revised by	Date
RAR	May 81		
RAR	Jan 82		

TROUT PROPERTY Claim Location Map

Scale: 1:50,000 Date: December, 1979 Plate: 2



9976
NO.

Paul Collyer

Cominco 92 H/16

Drawn by:		Traced by:	
Revised by	Date	Revised by	Date
RAR	Jan / 82		

Location of Trout property

Scale: 1:125,000 Date: Jan. 20, 1981 Plate: 1