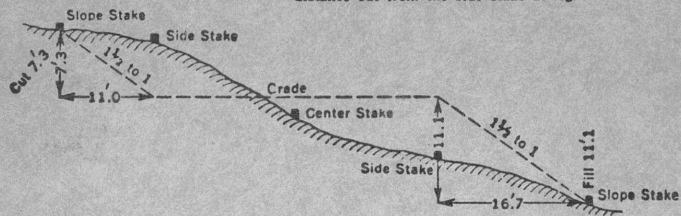




**DISTANCES FROM SIDE STAKES FOR CROSS-SECTIONING**  
 Roadway of any Width. Side Slopes 1½ to 1.

In the figure below: opposite 7 under "Cut or Fill" and under .3 read 11.0, the distance out from the side stake at left. Also, opposite 11 under "Cut or Fill" and under .1 read 16.7, the distance out from the side stake at right



Cut or Fill	Distance out from Side or Shoulder Stake									Cut or Fill	
	0	.1	.2	.3	.4	.5	.6	.7	.8		.9
0	0.0	0.2	0.3	0.5	0.6	0.8	0.9	1.1	1.2	1.4	0
1	1.5	1.7	1.8	2.0	2.1	2.3	2.4	2.6	2.7	2.9	1
2	3.0	3.2	3.3	3.5	3.6	3.8	3.9	4.1	4.2	4.4	2
3	4.5	4.7	4.8	5.0	5.1	5.3	5.4	5.6	5.7	5.9	3
4	6.0	6.2	6.3	6.5	6.6	6.8	6.9	7.1	7.2	7.4	4
5	7.5	7.7	7.8	8.0	8.1	8.3	8.4	8.6	8.7	8.9	5
6	9.0	9.2	9.3	9.5	9.6	9.8	9.9	10.1	10.2	10.4	6
7	10.5	10.7	10.8	11.0	11.1	11.3	11.4	11.6	11.7	11.9	7
8	12.0	12.2	12.3	12.5	12.6	12.8	12.9	13.1	13.2	13.4	8
9	13.5	13.7	13.8	14.0	14.1	14.3	14.4	14.6	14.7	14.9	9
10	15.0	15.2	15.3	15.5	15.6	15.8	15.9	16.1	16.2	16.4	10
11	16.5	16.7	16.8	17.0	17.1	17.3	17.4	17.6	17.7	17.9	11
12	18.0	18.2	18.3	18.5	18.6	18.8	18.9	19.1	19.2	19.4	12
13	19.5	19.7	19.8	20.0	20.1	20.3	20.4	20.6	20.7	20.9	13
14	21.0	21.2	21.3	21.5	21.6	21.8	21.9	22.1	22.2	22.4	14
15	22.5	22.7	22.8	23.0	23.1	23.3	23.4	23.6	23.7	23.9	15
16	24.0	24.2	24.3	24.5	24.6	24.8	24.9	25.1	25.2	25.4	16
17	25.5	25.7	25.8	26.0	26.1	26.3	26.4	26.6	26.7	26.9	17
18	27.0	27.2	27.3	27.5	27.6	27.8	27.9	28.1	28.2	28.4	18
19	28.5	28.7	28.8	29.0	29.1	29.3	29.4	29.6	29.7	29.9	19
20	30.0	30.2	30.3	30.5	30.6	30.8	30.9	31.1	31.2	31.4	20
21	31.5	31.7	31.8	32.0	32.1	32.3	32.4	32.6	32.7	32.9	21
22	33.0	33.2	33.3	33.5	33.6	33.8	33.9	34.1	34.2	34.4	22
23	34.5	34.7	34.8	35.0	35.1	35.3	35.4	35.6	35.7	35.9	23
24	36.0	36.2	36.3	36.5	36.6	36.8	36.9	37.1	37.2	37.4	24
25	37.5	37.7	37.8	38.0	38.1	38.3	38.4	38.6	38.7	38.9	25
26	39.0	39.2	39.3	39.5	39.6	39.8	39.9	40.1	40.2	40.4	26
27	40.5	40.7	40.8	41.0	41.1	41.3	41.4	41.6	41.7	41.9	27
28	42.0	42.2	42.3	42.5	42.6	42.8	42.9	43.1	43.2	43.4	28
29	43.5	43.7	43.8	44.0	44.1	44.3	44.4	44.6	44.7	44.9	29
30	45.0	45.2	45.3	45.5	45.6	45.8	45.9	46.1	46.2	46.4	30
31	46.5	46.7	46.8	47.0	47.1	47.3	47.4	47.6	47.7	47.9	31
32	48.0	48.2	48.3	48.5	48.6	48.8	48.9	49.1	49.2	49.4	32
33	49.5	49.7	49.8	50.0	50.1	50.3	50.4	50.6	50.7	50.9	33
34	51.0	51.2	51.3	51.5	51.6	51.8	51.9	52.1	52.2	52.4	34
35	52.5	52.7	52.8	53.0	53.1	53.3	53.4	53.6	53.7	53.9	35
36	54.0	54.2	54.3	54.5	54.6	54.8	54.9	55.1	55.2	55.4	36
37	55.5	55.7	55.8	56.0	56.1	56.3	56.4	56.6	56.7	56.9	37
38	57.0	57.2	57.3	57.5	57.6	57.8	57.9	58.1	58.2	58.4	38
39	58.5	58.7	58.8	59.0	59.1	59.3	59.4	59.6	59.7	59.9	39
40	60.0	60.2	60.3	60.5	60.6	60.8	60.9	61.1	61.2	61.4	40

10 May 1976 - office  
 driving to Princeton

11 May 1976:

photo CX-11, 12, 13 - ghost town  
at granite creek

drove to Sorrento via Tulameen,  
Merit, Douglas Lake and  
Solomon Lake.

12 May 1976:

- looked superficially at outcrops  
of Units 4, 5, and 6 of  
Shuswap Terrane between  
Little Shuswap Lake and  
Adams Lake.

SY6D-1R - black pyritic  
shale from Unit 6 at  $50^{\circ}49'N$   
 $119^{\circ}44'$  just west of Adams Lk &  
below contact with Unit 7. Grab  
sample.

SY6D-2R - same location  
grab sample of more calcareous,  
non-pyritic shale.

- drove into Kamloops via  
Diskonlith Lake & met  
Murray McLaren at David  
Thompson Motel.

Apparently local Noranda  
geol checked with head office  
in Van for permission to  
show us mineralized core  
and maps from their  
Goldstream showing and they  
refused. So visit to Noranda  
is off - we'll still go to the  
area of their showing however  
to look at general geologic  
sections.

13 May:

Drove Kamboos → Pavelestoke  
looking at some Sheswap Met Complex  
sections en route.

~~S46D-3R - Bi Schist~~  
Chucked

S46D-4R - possible equiv.  
of Badshot - marble lenses.

- both Sheswap meta complex

14 May

Δ1 - buff weathering meta-  
volc? w. pyrite - typical  
of Broadview Fm.

Δ2 - blk shale in Broadview

S46D-5R - grab

6R - av. sample across 30FT

7R - grab

sample of qtz-ser sch from  
Broadview.

Δ3 S46D-8R - BLK SH immediately  
below ore horizon (1FT thick)

SECTION

CHL-SER SCH

↓ CHL SCH

↓ LIMY CHL SCH

ORE Horizon

SCH w thin graphitic  
bands

S46D-9R - limy graph sch  
~50 FT below ore horizon.

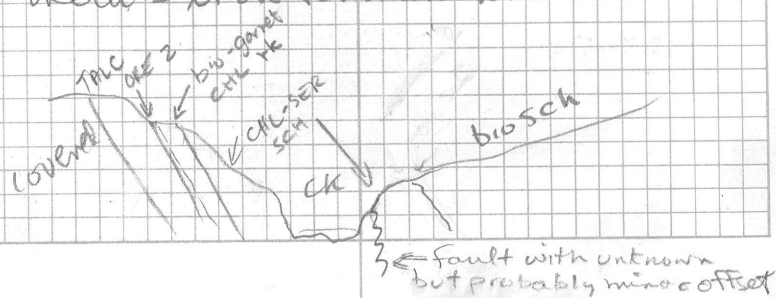
S46D-10R - bleached talc-  
ser. alt<sup>n</sup> envelope from  
one zone. Narrow bands 1-  
2 FT thick.

Δ4 ORE ZONE across valley -  
minor chalco. note garnets  
tremolite in sample.

Much more talc alt<sup>n</sup> mined  
by locals for soapstone carvings.

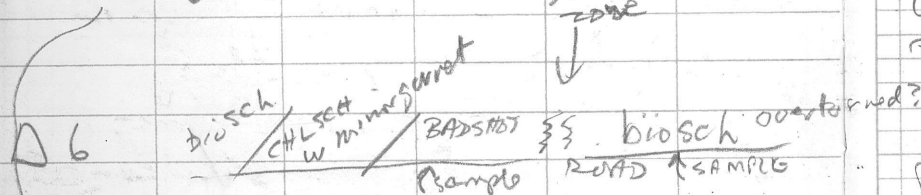
- some narrow (2"-5") sections  
of ~50% PYRR. + 1/2% CP

- biotite-garnet-minor pyrr band  
2 FT thick immediately overlies  
ore zone & tall alt<sup>n</sup> - could be  
meta-iron formation.



## Δ5 - Mine -

Walter Nelson showed us Portal + we looked at discovery showing outcrops on cat road.



Δ6

ore zone discovery outcrops consist of a few blocks of massive sulfides dug up during construction of logging access road. According to Walter Nelson (who didn't seem very knowledgeable) ore zone averages 2 or 3 meters thick.

- explosion <sup>at</sup> will hit ore zone at 1200 FT from portal

- zone must dip at  $\sim 50-60^\circ$  into valley. Apparently zone is very regular - is not folded - but in

- Mining will be by some sort of underground method

- Continued up valley to look for showing of Sp in Badshot at mouth of Nichols Ck, owned by proprietor of gas station at Downie Ck, couldn't find showing.

detail is very convoluted - but could be soft sediment deformation?

15 May: Saturday

Drove out to Silver Creek on 82 N to try to get up to look at Snowflake Mine - a lead-zinc mine with minor tin at the contact of Badshot ls with overlying black siliceous Lordeau slates a similar setting to the Goldstream deposit. But couldn't get in because of 3 FT of snow on the road 2 miles from the Rogers Pass Highway.

Drove back to Revelstoke and down most of the way to Trout Lake, then discovered that the truck was leaking transmission fluid - so turned around and returned to Revelstoke & got it fixed. By then it was 5 pm & too late

to start out again for Ferguson.

16 May: Sunday

Drove to Ferguson

17 May: Monday

SY6D-11R - chip sample across  
10 FT

- 12R - grab 50 FT further on

- 13R } 2 more grabs  
- 14R } ~50 feet apart

- all from black pyritic  
shale bed in Broadview Fm  
 $\frac{1}{2}$  mile from Ferguson on  
Ferguson Creek road.

In morning walked up  
cat road to True Fissure  
& adjacent properties north  
of Ferguson ( $3\frac{1}{2}$  miles)

I was walking on top of  
12 feet of snow by the time  
I got to the locations of  
the adits & therefore could not  
locate portals or look at  
dumps or anything.

In PM tried to get up  
to Silver Cup property but  
road was blocked by a  
series of trees about  $1\frac{1}{2}$  miles  
from Ferguson. Old original  
road was blocked by snow  
right at Ferguson.

Finally in desperation went  
 $1\frac{1}{2}$  miles up Ferguson creek  
to locate a minor showing at

low elevation - the Baltimore,  
but no trace of it remains.  
It is in the middle of a  
new logging show.

Earliest time to get a look  
at most of the mineralization  
would be end of June.

19 May

St. Eugene & Society Girl Mine

Large vein a few feet to  
~~several~~ 10's of feet wide,  
at least 1 mile long, and  
at least 100 feet in vertical  
extent.

Slickensiding is visible  
on walls of mineral zone  
at several points, suggesting  
fracture zone is a fault.

Vein is nearly ~~perpendicular~~  
vertical and cuts  
Aldridge Fm quartzites  
and siltstones at  $\perp$

Vein appears to become more  
Skarny from lake level up  
to Society Girl at the top -  
perhaps reflecting increasing

lime in wall rocks as  
Aldridge - Creston ~~is~~  
approached. One ~~top~~ top has  
lots of garnets, chlorite, a  
~~pyrite~~ ~~pyrite~~? (radiating  
clusters of acicular xls -  
may be  $Pb_5Cl(PO_4)_3$  -  
Mineral found in lead veins

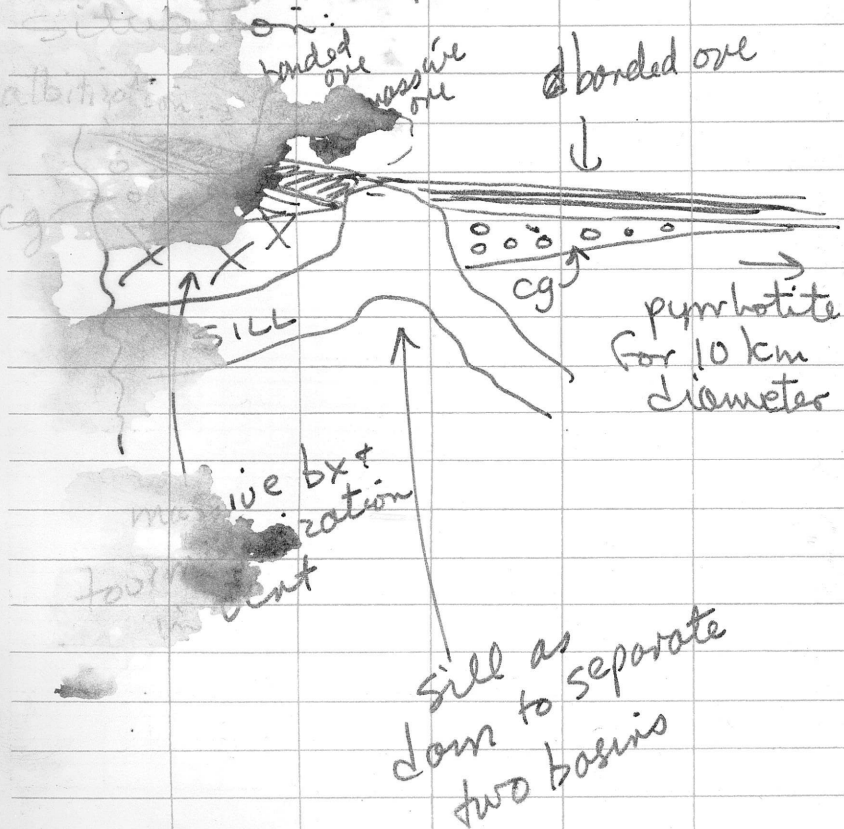
- wall rx clean &  
no slightest evidence  
stratiform characteristics

20 May

Tour of Sullivan

no barite  
no visible graphite

positional



- pyrrhotite pyrite halo out to 10 km diameter

- no evidence whatsoever of volcanism

- John Hamilton gave tour (chief and chief research geol. resp.)

- not to keen on discussions - i.e. w. close mouthed. Got us by noon.

E PM: Estella -

Aldridge east of trench at 2000 feet. Mostly snow covered but occasional mineralized boulders sticking out of snow. Not possible to look at any outcrops area. Mineralization is in quartzites and has associated vein type Qtz.

Note: If Estrella is a vein  
of remobilized  
mineralization from an  
underlying Sullivan type  
antiform body lower in  
the Aldridge Fm., traces  
of Fe form halo of  
~~the~~ such an hypothetical  
one body may outcrop on  
the hillside dipping toward  
the trench. Such an  
information might be  
located by geochemistry,  
since at Sullivan the  
peripheral pyrite fringe  
contains anomalous amounts  
of zinc.

- D<sub>1</sub> formation near Estrella  
is intense in shaley  
members:



- Small porphyry dikes

must be present in  
Estrella - which provides  
heat source to remobilize  
Sulphides.

21 May:

Tried to get up to Kootenay  
but got flat tire & turned  
back to the old mill on  
Wasa Creek.

Examined Fort Steele  
near Wasa & looked  
briefly at an adit driven  
on a copper vein within  
Fort Steele at the  
base of the Estelle Mine  
Road.

Got new tire & did  
other odds & ends of things  
in balance of afternoon.

22 May:

Drove up Toby Creek  
on 82K to look at outcrop  
of Dutch Creek  
Fms, the top of  
units in the Purcell  
Supergroup. Also looked  
briefly at the Mineral  
King Mine dumps and  
looked at site of  
around the old Paradise  
Mine Mill.

CX 16, 17 - Toby Conglomerate  
on Toby Creek.

23 May: St. Mary Lk Area

looked at Lower Aldridge  
Fm + showing on Hellroaring  
at 5 mi S of St Mary Lk.

- showing poorly exposed -  
adit is caved - very  
little mineralization on  
dump. Appears to be a  
qtz vein mineralized w.  
Fe + Sp. + Cu + Pb. Lies  
on a fault ~~at a steep angle~~  
to bedding. Has been  
diamond drilled, core is  
spilt and un-recoverable.

- Lotsa pegmatite with  
back of white muscovite  
up to 2" and tourmaline  
~~in~~ in poor, dirty  
x15 up to  $\frac{3}{4}$ " in diameter.

SYGD- 15R } Lower Aldridge Fm  
16K }  
17R }

24 May

Drove to Brooks, Alta

25 May → 29 May -

Drove to Tuchodi

30 May -

looked at Tuchodi Fm  
briefly in AM. Road  
Churchill Mine still in OK  
condition.

SYGD- 20R	} All black Besa River shale	
10 → 32 ppm Cu 21R		
16 → 30 ppm <del>Sn</del> Pb 22R		
8 → 60 ppm Zn 23R		
ie - all very low compared to Selwyn Basin r black shales in general.	24R	} Samples spaced along 1000 FT of road cut