RYSL

McLENNAN

Mining Transit Book

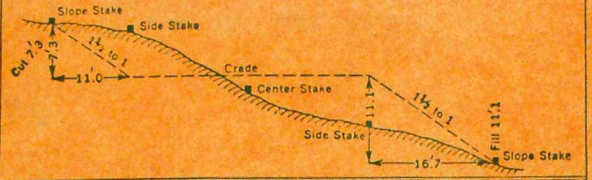
Book 2

June 25

-

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	0	.1	.2	.3	.4	.5	.6	.7	.8	.9	Cut or Fill
	Distance out from Side or Shoulder Stake										
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

@ at or about
o/c outcrop
w with
poss. possible
± approximately

MINERAL ABBREVIATIONS
azu azurite
CPy chalcopyrite

ga galena
hydzn hydrozincite
mal malachite
py pyrite
sph sphalerite

June 25/75

moved from Dawson to Mayo to
WORM LAKE camp

June 26/75
staked VOG 41–56 claims
& prospected anomalous areas
- some qz found but mostly
cpy

June 27/1975 Prospecting & mapping
VUG Claims
AIR PHOTO A 13137-98
UTM 4385 E
71620 N
NTS 116 A-9

Δ1 grey shale w̄ quartz (augened) veins
up to 18" wide

85
85?
050 10 (?)

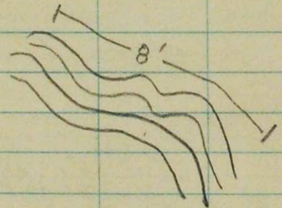
Δ2 buff-weathering black shaley
dolomite

000
46

136

minor fold structures in dolo
106/40 (f. axis)

⊥ section



Δ3 poss. fault zone dolomite takes
on shaley appearance w̄ cleavage

90
85

Δ4 small Zn-Pb showing on
ridge of mtn. - in dolomites
only one piece w̄ ga found
- showing is sub o/c to 4' wide
mineralization appears mostly
on fractures although some
is on matrix
- seems to be in same
dolomitic rock unit as preceding

Δ5 contact bet shale & underlying
dolomite

28 94 (→?)
56
172

Δ6 dolomite & shale beds interbedded
several to ~100' thick varying

60 148

080 slatey cl

Δ7 Zn-Pb showing possibly
up to 10' wide mostly zinc
not much ga
in a dolomite bed bet.
2 shale units

50
170
160

△8 contact between thick shale & overlying dolomite.

contact attitude - along bedding

JUNE 28/75 PROSPECTING & MAPPING N END of VUG claims

AIR PHOTO A 13137-98

UTM 4360E
71630N

NTS 116A-9

Δ9 buff-weathering grey dolomite ω slatey cleavage

85/070

~200' up ridge get gossan pieces of sub-o/c ω minor gal & cpy - no o/c gossan rock quite quartzy

CLAIM POSTS ~400' up ridge from Δ9

POST	VUG
1	5 & 6
2	3 & 4

Δ10 dolomitic shale or shaley dolomite (may be same unit as Δ9)

085 (—?)
85
18
60

Δ11 dark-grey-weathering grey shale (almost phyllitic) - part of thick unit which covers NE part of VUG group. Unit appears barren except for pyrite in some quartz lenses

85
130

It would appear that mineralization is confined to the dolomite sub extending down the slope. The mineralized zone is not exposed in o/c.

June 29/75

PROSPECTING & MAPPING S END OF VUG claims

AIR PHOTO A 13137-98

UTM 4410E 71610N

NTS 116A-9

Δ12 dolomitic shale or shaley appearing dolomite

45/140

also a brecciated dolomitic fault? zone ~1' wide cutting across bedding & shale cleavage @ 25/120

Δ13 massive brown-weathering grey dolomite - bet Δ12 & Δ13 get shaley dolo. w/ interbedded massive dolo

34/010

Δ14 massive brown weathering dolo (SOS) some shaley dolo beds bet Δ13 & Δ14

66/170 (??)

080/80

75/040

N 100' W along ridge from Δ14

80/116

Δ15 contact bet. massive brown weathering dolo & shale (slate??) contact appears to be along a fault zone ~ 25' wide

dolomite shows minor gentle folding

85/080

58/120

some ga found in fault zone also Zn-kicks from juice but no sph. minl^s found

Δ16 massive buff-weathering grey dolo

75/064

080 dominant attitude along E-W slope & shaley dolomites

VUG claim group

mineralization probably not controlled by faulting although some appears at fault zone @ S.E. end - it is probably result of enrichment in dolomite beds

JUNE 30/75 PROSPECTING & MAPPING

LINGHAM claims

AIRPHOTO A 12285-64

UTM 7154ON

4820E

NTS 106D-11

Δ17 o/c of grey massive dolo.

X bedding float

85/030 some breccia in float w

qtz filling in

85 125

85 156

Δ18 SOS but showing minor folding

090 60 plunging @ 15° to west

minor cpy minl^n 150' E along

slope from Δ18 also andesite

float indicating intrusive dyke or plug

Δ19 SOS

090 17

72 164 from o/c it is apparent

090 that the ridge reflects the

axial trace (roughly) of a

fold system

Δ20 fault area or dyke which

has undergone movement

46 156 - andesitic rok w shaley clevag[e]

// attitude - some may have

malachite staining

zone ~20' wide - gossan

staining in fault zone

10 85 prom joint system

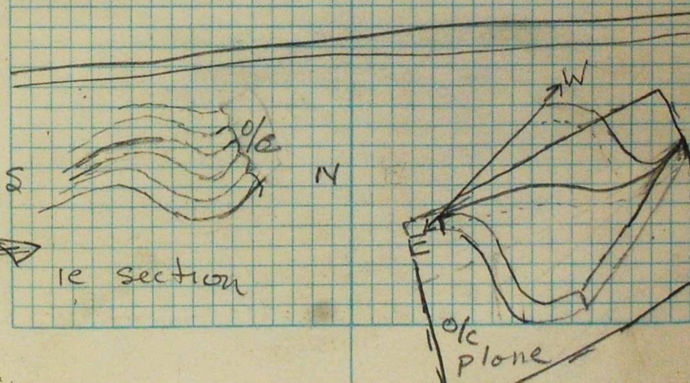
66 128

Δ21 SOS - may be two fold dir^ns

→ doming - get dome-like

appearance here

85 160 ap. clevage for 2nd fold attitude



July 1/75
camp day - get things organized

July 2/75
socked in - rained all night & half of day - didn't go out

July 3 '75

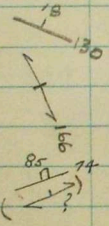
Prospecting & mapping Newt claims

UTM 7157 0 N
4775 E

NTS 106D-11

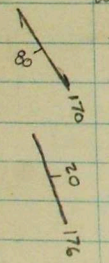
Δ22 grey-weathering dark grey dolomite

o/c may be on limb of a fold

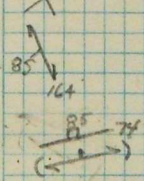


Δ23 o/c & sub o/c of light-weathering grey dolo - underlies Δ22 dolomite

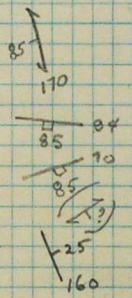
- contains ga & sph
- may be spotty on 200' along, apparently some horizon appears to be quite barren



Δ24 SOS Δ23

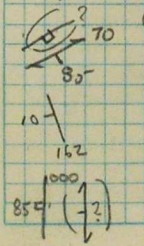


Δ25 SOS? lt-grey-weathering grey dolo.



NOTE some qtz veining across ridge - minor cpy

Δ26 banded limestone some fossils in float (Rugosa ?)



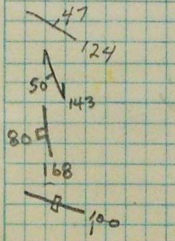
possible fault

July 5/75 PROSPECTING ANOMOLY ON NE side of Mt. WILLIAMS
UTM NG 5170E 71430N
NTS 106D 7

ANOMOLY	SAMPLE	Cu	Pb	Zn	RESULTS
RY5F	1132	102	3300	5800	
	33	205	470	315	
	34		415	550	
	35		190		
	36		365		
	37		194		
	38		120		
	39		355	510	
	40		300		
	41		455	600	
	42		134	320	
	43				
	44		375	560	
RY5P	35		315	615	
	36				
	37		375	1160	
	38		380	880	
	41		156		
	42		148		
	43		122		
	44		182		

1165	50	350	1180
66		950	1520
67		710	870
68		142	

Δ 2.8 buff-weathering grey dolomite



Δ 29 3-4' wide zone (true width) of v. high grade PbS & sph much hydzn appears to be strata form

~ 40' above this get a 2'-wide high grade zone w high amt of sph & ga

- other zone (s?) above this under rubble containing mineralization
- whole zone could possibly be 100' thick in total

July 6/75
cutting claim posts w D. Davis

July 7/75
staking

CLAIMS
WILL

1-8	L. McLennan
9-16	D. DAVIS
17-24	M FRETWELL
25-32	J. McLERNAN
33-40	L. McKnight
41-48	D. PLASTER

July 8/75 GEOCHEM TRAVERSE
CASTLE RIDGE
UTM 46 74 E
71585 N (MG)

RYSL

30	gravelly soil
31	slightly org.
32	good soil
33	SOS
34	SOS
35	fairly org
36	" "
37	brown SOS
38	" " slightly org
39	" "
40	" "
41	" "
42	" "
43	" "
44	" "
45	" " " "
46	" "
47	grey "
48	" "
49	" " " "

RYSL

50	brown	SOS	
51	"	"	
52	"	"	
53	"	"	
54	grey	SOS	clayey
55	"	"	"
56	"	"	org.
57	brown	"	clayey
58	grey	"	org
59	brown	wet	SOS clayey
60	grey	"	" " org
61	brown	silt from CK	
62	black	organic	
63	grey	organic	clayey
64	"	"	"
65	"	"	"
66	"	"	"
67		Clay SOS	
68		black organic	
69	brown	SOS	slightly org
70			
71			
72			
73			

July 9/75 PROSPECTING ANOMOLOUS CREEKS AROUND QUAK CLAIMS - CASTLE RIDGE
UTM (MG)
4850 E
71520 N
NTS 106 D 6 & 106 D 11
(on boundary

July 10/75 PROSPECTING around Will Claims w G. Simpson
- find massive chunks of float on other side of ridge from o/c - trenching recommended

July 11/75 Look at claim groups w G. Simpson
- VUG - write off
- Newt - " "
- Will - trench & sample
- write off

July 12/75 PROSPECTING ELLIOTT RIDGE anomalous kicks

UTM 7152ON / 481 50E (MG)

NTS 106D 5

v. old looking claim post on one peak (probably from grey copper mtn staking) - no visible mineralization

- fairly abundant gossan pieces in lower cirque but no visible mineralization

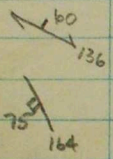
July 13/75

- camp day

July 14/75 Prospecting Rob's 1800 Pb anomoly

NTS 106 D 11

UTM 71750 N (MG)
4770 E



dominant attitude along ridge

absolutely no visible mineralization - o/c limited to top of ridge - no mineralization appears in talus slope either

July 15/75 TRAVERSE AROUND WILL TO LOOK @ showings w/ P. Dean, et al.

WILL - appears to be a fault zone crossing bedding causing enrichment in the zone

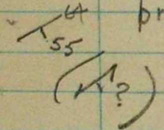
VUG mineralization along ~~fractures~~ esp. ap. pl. cl. where well fractured get enrichment

July 16/75 PROSPECTING

HIGH Pb Zn geochem
on castle ridge
(RY5F 1668)
UTM 7158ON
4760E
(MG)
NTS 106D12

- one small trace of hyd Zn up on side hill
- small ridges right down in valley upstream from lake
VERY gossanous (traces of hydZn) material coming out of gopher holes

RY5L 70G 1 - taken from here
brown weathering dolo bed



it would appear that the anomaly comes from the gossan material in the valley floor
- there is no visible o/c of this material — the above sample should either prove or disprove this gossan material as the source

July 17/75

PROSPECT ON CASTLE RIDGE ANOMOLY

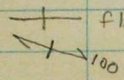
RYSD 1175, 1176

UTM 71570N } MG
4685E }

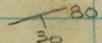
NTS 106D 12

TOP of mt^a

brown weathering grey dolomite



downslope bedding steepens



may be a fair bit of folding going on (much minor folding)

mineralization! Ga dissemin^d & along fractures in brown weathering (gossany) siliceous dolomitic rock also v. minor sph. pyrite fairly common o/c's on ridge ~ ½ way down not v. concentrated
There is also evidence of some s/p movement in the rock which could have caused remobilization to fractures & enrichment.

In general the showing is not impressive although it has a true thickness of up to 20' in bedding
ie worth S.F.A.

STAKING WILL 49-60
WILL 49 → 56 R CARNE
57 → 60 P. DEAN

McLENNAN

PACIFIC

WATERPROOF

Book 3

LEVEL

NOTEBOOK

July 26/75

-P

July 25/75 PROSPECTING CYPRUS

(1968) ANOMOLY

NTS 106 C 13

UTM ~ 5520E

71895N

- flying in area appeared to be staked from the top of the valley to at least half way down

CLAIM POSTS

Post 1 QMY 45,46

2 43,44

LINE going ~ due N-S

from S to N

staker B. ENNIS

June 27/75

- in anomoloos trib near top of main stream get zones of massive pyrite filling in fractures & slips in grey-black dolomite beds - no visible ~~qa~~ or ~~sp~~

one zone in ck over 100' thick

trib seems to be running down
a limb of a fold

40 / 34 aplcl.

→ 20/80

70 / 154 prominant joint systems also
120 several slips w same attitudes
(f?) quartz lenses along 70/154

there are several pockets of
pyritization enrichment up
the creek still no visible
ga or sp
py. also appears along fractures
in zones which aren't
gossanous

barite in many rox

claim posts
QMY POST 1 91, 92
2 89, 90

June 28/75
M. Wood
LINE RUNNING E to W

- @ top of mt^n ridge get
Hydzn & sph beside
pronounced gosson band
~ 40' wide
$minl^n$ in sub o/c @ top
of mt^n claim line
runs right over this

RY5L 71 R - collection
of gossan samples
from above traverse
sent in for assay

July 26/75 prospecting traverse on 6300 ppm Cu anomaly (CYPRUS 1968)
NTS 106 D 9
UTM N 5310 E } NG
7760 N }

mineralization cpy mal azur in float - mostly in quartz (vein probably) but also in dolomite & shale. Occurs in ck & in a talus slope running down a fault(?) zone

in o/c ~ 3/4 way up mt^n
2 - 3' wide seam w/ massive chalco in spots only extends ~ 15' - pinches out on upper end & appears to be cut off by joint (slip?) on lower end

110/80 - attitude of fault-joint system & mineralized lens

mineralized
More float occurs above this w/ cpy in fractures - ran out of time couldn't find any o/c

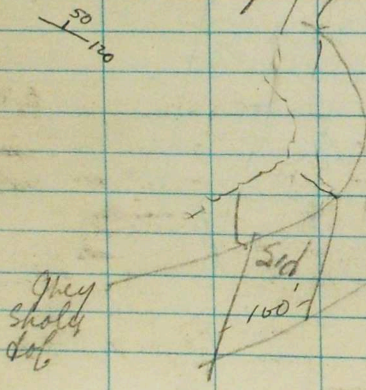
80/30 90/90 128/85 rox are interbedded shales & dolomites

- it would appear that mineralization may be in several spots up the talus slope - This is theorized because the mineralization appears relatively abundant in spots and barren over most of the slope. The fact that additional mineralized float occurs above the o/c showing indicates at least two occurrances

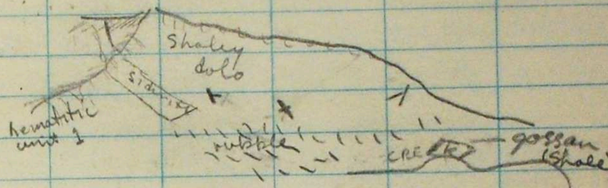
July 27/76 PROSPECTING TRAVERSE ON 620ppm Cu anomoly
NTS 106D16
UTM ~ 5340E
72020N } NH

- fairly common speculerite in brown weathering dolomitic talus @ top of ck
- also scattered pieces of pyrite breccia (poss. source of geochem anomoly)
- flecks of <u>mal</u> & <u>azu</u> found on fracture surface of brown weathering dolo.

50 / 120



- possibly an anticline running across valley



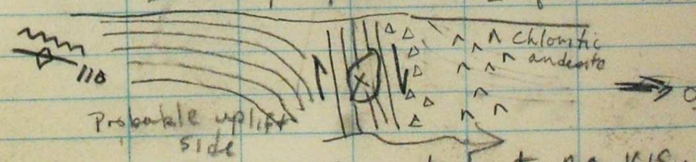
Δ1 black shale - o/c zone ~ 60' thick - no min'l

26 / 110

Δ2 black shale - gossane on surf. - no vis. min'l

40 / 30

Δ3 chloritic fault zone (dyke?) xenoliths of host rok - shale bedding reflects dirn of vert. mvt.



zone is gossaned but no vis. sulphides

breccia zone ~ 100+ ft wide w̄ large pieces of shale is right beside & probably part of fault zone chloritic andesite dyke? lies beside this - v. minor pyrite present ~ 200' w̄ another breccia ~ 50' wide contained in it

Δ o/c w̄ mineralization cpy, mal seam ~ 1' wide in joint (slip) assoc w̄ specularite, py? in unit 1? siliceous dolo?

85 ⊓ 30 attitude of mineralized cleavage

- extends ~ 30' visibly up slope
- also extends across slope in float - no visible o/c but float extends from v. near top of ridge

RYSL-72R - BLK SHALE - APPARENTLY UNMINERALIZED - NO VIS. PY.

RYSL-73R - gossanous rock ~ 50% PYRITE

RYSL-74R - mainly pyrite.

RYSL-75R - massive hem.

RYSL-76R - Rock w. ~ 5% hem & 1% cp., + sid? Fspr? qtz.

July 28/75
- socked in - in camp all day

July 29/75 prospecting traverse on Cu anomolys
NTS 106 D 16
UTM ~ 5370E
7196ON

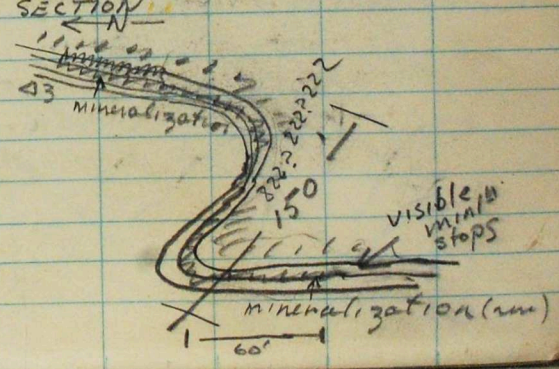
Δ1 - cpy, mal, az in o/c. Rok is a shaley dolo.
- minlⁿ in fracts. & along bedding to a much lesser degree
- exposed ~25' long & 10-15' thick - may not be v. continuous as float not found much to either side
- cpy concentrated in a few thin seams as well as disseminated thru rok - not a very high grade exposure

Δ2 fault? breccia - shale pieces speculorite calc (sil?) cement

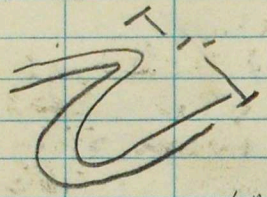
Δ3 contact zone bet. underlying thick shale unit & overlying ? unit breccia just above this mineralization in o/c over ~25-30' thickness

~ 150's along slope beds dip sharply & structure appears to be either a recumbant or semi-recumbant fold (possibly faulted)

ie SECTION

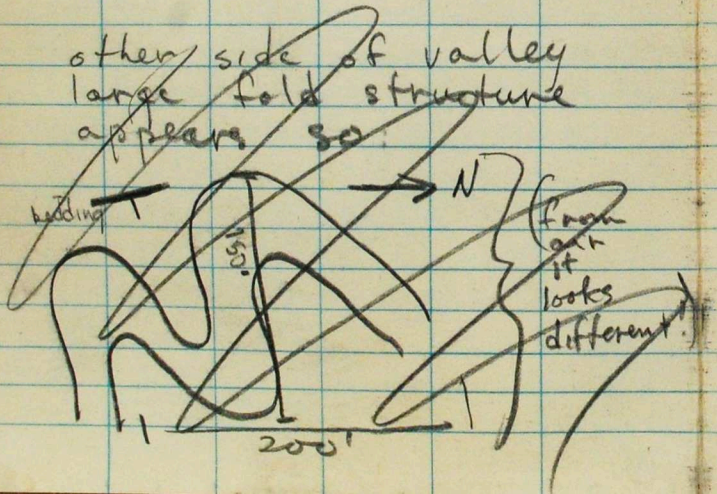


- minor fold structures visible in bedding all along shale bed
- all show semi-recumbant attitude



Visible mineralization (in float) is spotty
s of the larger fold at
Δ3

other side of valley large fold structure appears so



Generally it would appear that mineralization is mainly in the shales visible at the contact with the (?) unit overlying.
Mineralization (visible) is continuous over ~ 200' (Δ3)
Away from this area the mineralization (visible) appears spotty but is in the same horizon.

July 30/75 looking @ July 29 showing W P Dean

RY5L 77A - chip sample taken across Δ1 showing (shales mostly)

RY5L 78A - massive py, speculorite, cpy bld or vein conformable to bedding ~ 2" thick from Δ1

RY5L 79A - better looking piece of shale for comparison of assay values

RY5L 80A chip sample across Δ3 shales

RY5L 81A sample of fairly well coated Δ3 shale for comparison

On west side of valley a few pieces of cpy & malachite were found but could not be traced to o/c. The scarcity of mineralized float + the lack of mineralized o/c would tend to point to a general lack of any mineralization of consequence on the West side. Structurally the west side has undergone a fair amount of folding (some of it very tight) and faulting.

On the east side mineralized float was traced 1000+ feet to the north along talus indicating a possible lengthy continuity of that o/c showing

August 1/75 move into Kiwi
walk around & set up

BL 0 26 W

Plot onto grid & trace float & plot on grid

Hot
geochem
map in mnl occurrences
trace up to o/c if poss
dig trenches

ID
trench across main showing

Aug 2/75 KIWI

finish setting up camp, get organized, bake bread, catch breakfast

Aug 3/75 Kiwi property
- start grid for geochem

- start 0S 4W BL

hit 20S BL @
~ 20S 5.5W

start again from 20S 4W
line 4W goes to 37S
break in slope ~ 50' beyond this

8W goes to 39S
hit 20S BL @ 10W
go down to 8W
& continue
8W is end up 150S of BL 00 10W

12W → 20S BL
ended up right on: 20S 12W
19S ~ 130' from 20S

Aug 4/75 Kiwi

going S on 16W

@ ~ 16W 9S get smithsonite in o/c or sub o/c (N. showing)

@ 16W 14S get smth o/c or sub-o/c

@ 16W 17.4S get smth o/c or sub-o/c

@ 16W 19S " " " "
also float above

hit BL 20S @ ~
16.7W go down to
20S 16W & continue
16W goes to 41S
(break in slope ~ 25' beyond this)

LINE 20 W start @ 425

hit 20S BL @ 23 west
go down to 20W & continue N
Δ 20W 1S 10c 150' of BL 0 21W

go up to 24W & go S
hit BL 20S @ 24.5W
24W 19S ~150' N of this point
proceed S from 24W 20S BL

@ 24W 22S get o/c

T 094 22
000 085

24W goes to 425
break in slope ~50' below this

Aug 5/75 KIWI

start BL 0 28W
hit BL 20S @ 27.8W
Δ 28W 19S ~130' N of 20S 28W
extends to 435 (@ break in slope)

@ 32W 26S get o/c grey massive dolo

T 100 27 035
Φ (√2)

hit BL 20W @ 33W 21S 150S of this pt.

lotsa o/c above 32W 9S

ditto 32W 3S

end up right on 0S 32W

Aug 6/75 Kiwi

start OS 40W hit
BL 20S @ 42W
195 ~ 30' N of 42W
go up to 40W & continue

@ 40W 34S get massive grey w/bath. dolo o/c

120
20
114
92

LINE 40W goes to 46S
slope break ~ 30' below this
@ 44W 22S get dk grey dolo o/c

90
28

hit BL 20S @ 44.5W
Δ21S ~ 150' S of here
go up to 44W & continue

go down to OS 36W
hit BL 20S @ 34.8W
go down to 36 & continue
goes to 44S
slope breaks ~ 60' below here

hit OS @ 43W 1S taken
@ OS 43W

hit 20S @ 49.2W
Δ 48W 18S almost on
BL ° ° no 19S taken
go up to 48W 20S &
continue

48W goes to 46S
Slope break ~ 50' along

Kiwi
Aug 7/75 raining all
night & day - stayed
in

Aug 8/75 Kiwi

start LINE 52W 40S
hit BL 20S dead on

hit BL OS @ 51W
Δ 52W 2S @ OS 51W

go to 56W OS & go S
Δ 17S 56W @ BL 20S
57W

go to 56W 20S & continue

RY5D
56W 22S - brown sandy by seep
24 " "
26 - brown soil
28 - brown sandy by main ck
30 - brown soil
32 - black organic

RY5D

56W 34S black highly orgone
36S " " "
38S brown sandy soil
40S brown wet/clay
42 black orgonic
44 wet grey org
46 brown clayey
48 " "
50 " "

56W goes to 50S

LINE OW goes to 36S
slope break ~ 60' below this
∠ angle down from 23S to
20S ~ 100'

RY5D 18S brown soil
16S " "
14S
12S
10S
8S
6S
4S slight org
2S
0S wet brown clay

Smith ✓

RKW1

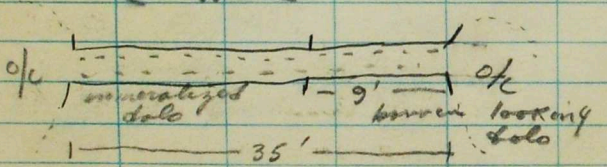
Aug 9/75 START TRENCH

#A on Main showing

Aug 10/75 - rained & stormed all day - in camp

Aug 11/75
finish trench A
main showing

length - 35'



two samples taken from either side of trench

loc. 136' down from
Δ 16W 18S

- trench bottom frozen but probably o/c. Looks like a v. highly oxidized zone w boxwork structure apparent - ga in place in trench bottom - oxidation so pronounced that much of zone looks like gossaned soil (possibly could be)

on S side of trench get a highly fractured barren looking dolomite sample taken of this for assay - some smith? on fract. surf.

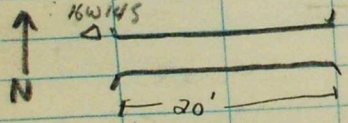
RK5L82A - taken along trench A's entire length - v. highly gossaned boxwork o/c(?) - frozen - w visible ga in some spots
Assay # 4354

RK5L83A - taken along other side of trench A d'to description
Assay # 4355

RK5L84A - barren looking dolomite from Southern 9' of trench - taken to see if it runs anything - some o/c has smith on fracture & joint surfaces

Assay # 4356

TRENCH "B"
Loc. 16W 14S
Length 20' E of 16W 14S



Rock dolomite barren in matrix but w gossan (smith?) on fractures

v. difficult to trench as covered w talus & o/c dipping @ greater than slope → much removal of talus for little exposure

one band v 2' wide quite highly gossaned but no visible mineralization - it would appear that zone extends above & probably below trench

- trench goes across bedding.

RK5L85A - sample taken along trench

Assay #4357

RK5L86A - sample taken across higher gossaned 2' band

Assay #4358

Aug 12/75 KIWI
TRENCHING
ON N-showing

TRENCH "C" 12' long
~4' deep no o/c
encountered. hit perma
frost - several large
chunks of smithsonite & qz
float (one over 100 lb.)
Loc. ~ 150' W of
16W 75

trenched 100' above this
but get some thing - also
bad caving problem

TRENCH "D" ~ 200' W above
△ 16W 95
get dolomitic sub o/c
w̄ slight gosson (smith?)
on some fractures - again
hit clay layer & permafrost
~4' down & had to stop

RK5L 87A - sample of
grey sub o/c dolo w̄ slight
smith? staining - portions
of rok v quartzy → quartzite
ASSAY #4359
- gosson pieces overly sub o/c
→ showing may be above

go down to main N-showing
@ 16W 95

RK5L 88A - sample across
~100' minlized o/c between
△16W 95 & 105
#4360

RK5L-89A - ditto 88
#4361

RK5L 90A - sample taken
along length of trench
"E" #4362

RK5L 91A - ditto 90
#4363

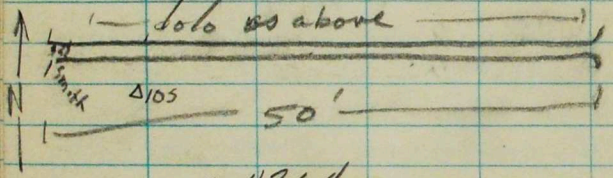
TRENCH "E"

Loc. 16W 9.75

Length ~ 50' across bedding

rok mostly dolomite w some calcite on fract & smith? along N-S trending joints - top of trench has ~ 2' solid smith?

- couldn't dig any higher because of size of talus



#4364

Aug 13/75

TRENCHING KIWI

dig two pits ~ 200' downslope of trench "A"

hit siliceous dolomite o/c ~ 3' down - pits ~ 10' apart

- no min/n in o/c although much float min/n above

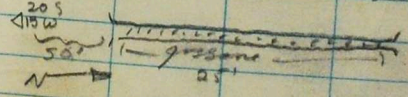
TRENCH "F"

Loc. ~ 50' N of BL 20S 13W

LENGTH ~ 25'

Depth to o/c ~ 1'-2'

Rok highly gossaned (smith?) breccia apparently along bedding but no attitude poss because rok all broken up



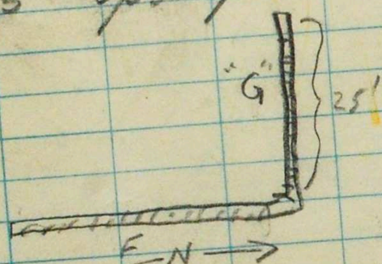
- no ga visible nor sph only smith?

- bed could be much thicker extending both up & down slope

RKSL 92A - chip sample
ALONG Length of TRENCH
"F"

RKSL 93A - ditto 92A

TRENCH "G"
Loc. extends from N end of "F"
25' upslope



barren looking dolomite
@ top of trench - bottom 20'
has (smith?) on fractures mostly
SAMPLE RKSL 94A taken
along "G"

Aug 14/75

KIWI

MAPPING SHOWING AREA

13W
16W

34 20S 13W area - high amt min^ln float
& some o/c (TRENCHS F & G)
- min^ln in breccia - mostly smithsonite
some darker (Pb-rich) but these
may be from above (main showing)

12W 16S area grey massive dolomite
some smith? on fract surface
some v. gossaned (smith) float
from above

10W 16S area o/c v highly gossaned
massive dolo (some breccciated)
smith conc. along joints,
(bedding??) @
80 150

but is also on most other
fractures etc & bedding

40
160

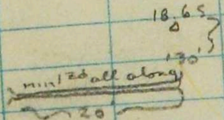
dominant joint 00 also min'lzd

TRENCH "H"   20' Long   N-S

LOC ~ 130 E of 16W 18.6S

Rok massive dolo. well minl^2d ω smith

trace ga



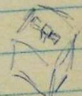
RKSL 95A   taken in trench "H"

@ trench A o/c

85 / 045   smith? @ along joint trend

calcite along joints

massive dolo minl^2d ω smith only



40 ?
160

80 minlzd along joint
160

@ 16W 17S   get mass. dolo ω bedding

10 100

@ 16 W 25   get o/c   mass grey dolo ω

minlzd sections along bedding. one exposed

~6' wide smith. conc. along bedding

no visible Pbs

bedding @ 10-20 / 140

Δ20W 6S Area   o/c in ck   massive dolo. ω

smith on joints & fract. not v. high grade

overall. smith seems conc. mostly on

NS trending joint system

170

05
130

Δ0S 26W   trench & pit from 1974 ω ga & smith

o/c is massive dolo ω smith conc.

mainly on N-S trending joint system

ie   smith
170

070 & perhaps fault trend??

high minl^2d zone looks to be

up to 10' wide & trending (perhaps) // 070

RKSL 96A - along bedding } in ck below TRENCH I by claim post

97A   across

RKSL 98A } mass dolo. ω smith. in fract. some massive smith } TRENCH I -30' long

99A

Aug 15 - prospecting across valley
looking @ buff colored area
- just buff weathering dolo
mostly massive but some
bx in float

RKSL 100A - taken from
float samples across
valley (EAST) from showings
smithsonite? on fractures
of massive dolomite

Aug 16/75 KIWI
prepare camp for move
to Hot & ID

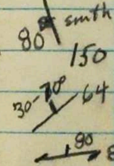
Aug 17/75
- move to Hot & ID & set
up camp

Aug 18/75
ID
TRENCH J - on main ID showing
~50' long - depth ~1'
Rok - shaley dolomite

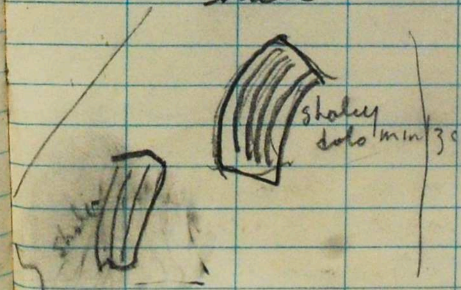
RISL 101A - sample along
TRENCH J

RISL 102A - ditto 101A

bedding appears to be
limb of a fold
smithsonite on joints &
fractures dominantly on joint
system



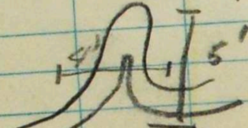
min'zd zone thickness
at least 28' perhaps more
- bed may be overturned
apel. o/c fold nose??
over lain by gossoned
shale



SECTION

RI5L 103A - SAMPLE ACROSS
bedding of gossaned shale
overlying minlzed shaley
dolo of TRENCH J
unit at least 30' thick
probably thicker
. exhibits tight folding

ie



smithsonite float
extends to top of
stream

RI5L104A chip sample
across chloritic? shaley
qtzte-dolo gossan ~ 40' thick
1 creek up from trench
"J"

Aug 10/75 HOT PROSPECTING
5 MARKING

Δ1 massive grey dolo
dominant joint system
30 150 60

Δ2 calcareous dolomite
66 25
64
80 130

Δ3 massive calc. dolo. - top of ridge
44 pronounced joint syst
bedding quite flat dipping slightly N

Δ4 minlzd zone - no o/c - o/c ~1' down
smith (& py?) in calc. dolo. - sample
dug up is breccia - can't tell how
thick zone is but dug downslope
~20' & hit mass. dolo

Δ5 concn of smith in mass. dolo.
float ~
~100' along get CP P1 - 23,24
P2 21,22

Δ6 brecc. w mass smith ~300' along from
Δ5 - Δ4, -6 look like same horizon

in o/c appears conc. along joints and
fractures. host is massive grey dolo

44 smith — main minl'zd joint system

30 / 160 — zone ~ 20' thick w varying degrees
of minl'n over all grade probably
low

Δ7 — bx minl'zn - float ~ 30' wide
200' downslope

Δ8 — large o/c massive calcite rich. dolo.
large calc xtals in rok
25 / 110 — some appears brecciated
80 / 60 — folding on large scale in area

Δ9 — massive smith w ga float;
no o/c

Δ10 30 / 20 — massive dolo o/c

80 / 130

40 / 85

Δ11 — massive calc dolo.

70 / 20

20 / 20

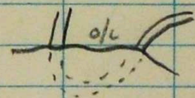
80

Δ12 — o/c massive ^dark smith? at least 8' wide
possibly more also smith in
mass. calc. dolo. along joints //
massive dark stuff

20 smith — drag folding in dark rok evident
- possibly fault zone

35 / 30 — mass. dolo.

dyke like appearance may be due
to folding
ie PLAN



Aug 20/75 — prospecting & mapping
HOT

Δ13 — trenches

Δ14 — massive calc. dolo. o/c - some brown
30 / 80 — staining but probably from py
found in rx.

Δ15 Smith float - lots of it - some v. dark & heavy
w/ no vis. ga - some on fracts. of mass. dolo
but much is massive - some in bx.

Δ16 small o/c mass dolo w/ smith on joint

80 smith
100

Δ17 highly gossaned (py-stain) bed of
massive dolo - shows v. minor folding

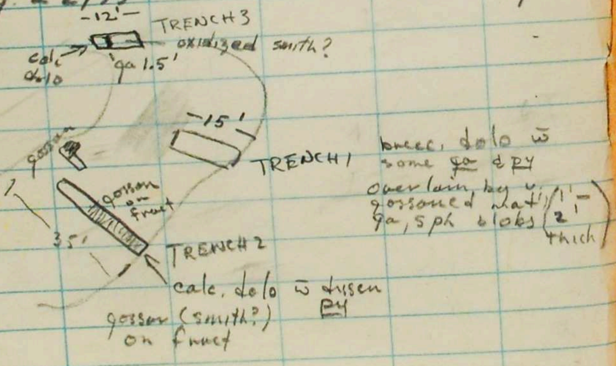
30
120

130

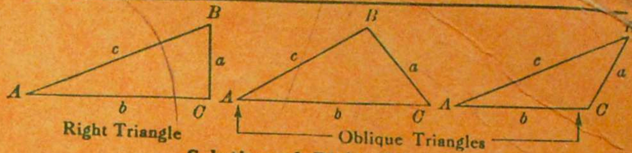
110
85

85
120

Aug. 22/75 Trenching



TRIGONOMETRIC FORMULÆ



Solution of Right Triangles

For Angle A. $\sin = \frac{a}{c}$, $\cos = \frac{b}{c}$, $\tan = \frac{a}{b}$, $\cot = \frac{b}{a}$, $\sec = \frac{c}{b}$, $\operatorname{cosec} = \frac{c}{a}$

Given	Required	
a, b	A, B, c	$\tan A = \frac{a}{b} = \cot B,\ c = \sqrt{a^2+b^2} = a\sqrt{1+\frac{b^2}{a^2}}$
a, c	A, B, b	$\sin A = \frac{a}{c} = \cos B,\ b = \sqrt{(c+a)(c-a)} = c\sqrt{1-\frac{a^2}{c^2}}$
A, a	B, b, c	$B = 90° - A,\ b = a\cot A,\ c = \frac{a}{\sin A}$
A, b	B, a, c	$B = 90° - A,\ a = b\tan A,\ c = \frac{b}{\cos A}$
A, c	B, a, b	$B = 90° - A,\ a = c\sin A,\ b = c\cos A$

Solution of Oblique Triangles

Given	Required	
A, B, a	b, c, C	$b = \frac{a\sin B}{\sin A},\ C = 180° - (A+B),\ c = \frac{a\sin C}{\sin A}$
A, a, b	B, c, C	$\sin B = \frac{b\sin A}{a},\ C = 180° - (A+B),\ c = \frac{a\sin C}{\sin A}$
a, b, C	A, B, c	$A+B = 180° - C,\ \tan\frac{1}{2}(A-B) = \frac{(a-b)\tan\frac{1}{2}(A+B)}{a+b},\ c = \frac{a\sin C}{\sin A}$
a, b, c	A, B, C	$s = \frac{a+b+c}{2},\ \sin\frac{1}{2}A = \sqrt{\frac{(s-b)(s-c)}{bc}},\ \sin\frac{1}{2}B = \sqrt{\frac{(s-a)(s-c)}{ac}},\ C = 180° - (A+B)$
a, b, c	Area	$s = \frac{a+b+c}{2}$, area $= \sqrt{s(s-a)(s-b)(s-c)}$
A, b, c	Area	area $= \frac{bc\sin A}{2}$
A, B, C, a	Area	area $= \frac{a^2\sin B\sin C}{2\sin A}$

REDUCTION TO HORIZONTAL

Horizontal distance = Slope distance multiplied by the cosine of the vertical angle. Thus: slope distance = 319.4 ft. Vert. angle = 5° 10'. From Table, Page IX. cos 5° 10' = .9959. Horizontal distance = 319.4 × .9959 = 318.09 ft. Horizontal distance also = Slope distance minus slope distance times (1 − cosine of vertical angle). With the same figures as in the preceding example, the following result is obtained. Cosine 5° 10' = .9959. 1 − .9959 = .0041. 319.4 × .0041 = 1.31. 319.4 − 1.31 = 318.09 ft.

When the rise is known, the horizontal distance is approximately:—the slope distance less the square of the rise divided by twice the slope distance. Thus: rise = 14 ft., slope distance = 302.6 ft. Horizontal distance = $302.6 - \frac{14 \times 14}{2 \times 302.6} = 302.6 - 0.32 = 302.28$ ft.