memo to A.S.B.
~~Chief~~ Geologist

July 28, 1980

005615

re Sicker Project, July, 1980

The 1980 program can best be explained with ref. to Prelim. Map 40. Several features ~~deficiencies~~ should be fairly obvious:

1. A belt of gneissic cover extends fr W of the Id Hwy to S of Bream Lk & around Crofton Lake, thence to Osborn Bay Rd. Outcrops on the most northerly rj of Maple Mtn offered some hope of filling in this sec'n of the Sicker Gp, but instead stocks of granite & shonkinite were fd. It was poss. that the granite was a stock of the Island Intrusions, therefore mapping was extended far enuf to the E to show that the shonkinite clearly transgresses the granite. This shonkinite was traced back to a tail shown on P.M. 40 just N of Osborn Bay Rd. There is evidently no offset of the shonkinite in the valley occupied by Richards Ck & Osborn Bay Rd. A 2dy consid'n in extending mapping over this ridge was an advertized housing dev't.

2. A considerable sec'n of the Sicker Gp has been more or less obliterated by shonkinite intrusion on both sides of Richards Trail. Prelim mapping along the S part of Osborn Bay Rd indic'd the absence of shonkinite except for a rel. narr. dyke. Detailed ~~o/c~~ mapping was done in the unmapped SE cr. of P.M. 40. A new, post-airphoto, road eventually provided good access, but the disturbance to the land by Escarpment Way & the concomitant housing dev't rendered airphoto recognition time-consuming. A plan of the roads obtained fr the District municipality was of limited help. The shonkinite termination is complex, & is not yet mapped along the S border of P.M. 40.

3. The airphoto linears are possible ~~x~~-faults, but detailed tracketing of the N ct. of the main shonkinite body across the Ely fair indies that any offset is too small to register at mapping scale.

4. Fill-in mapping is needed immediately E of the Ely linear & NE of Richards Trail. That E of the linear is nearly completed.

The work depends heavily on aerial photos & has consequently been somewhat hampered by rain. Short breaks have been utilized to map along linear roads in the Banon Ck-Clemaine Lake area, a few minutes drive NW of the motel. Cooke described the Sicker volcs as best altered in this area, & it seemed desirable at least to look at them. However a rather small amt has been seen, because he completely missed a large shonkinite dyke. There is no massive cgl. W of the lake, as shown by Clapp & Cooke; accat'd shonkinite ~~o/c~~ ext. down to the shore

PROPERTY FILE

Not for P.M. 40

Au-Ag-Cu-Pb-Zn-Cd

The Sicker Group is host to the Tenora - Tyee orebodies on Big Sicker Mtn & to the orebodies of Western Mines near Buttle Lake. The latter orebodies appear to be controlled stratigraphically as well as structurally, therefore detailed mapping was begun to determine the strat. sequence near the type area. On Big Sicker Mtn. the nature & relationships of the rock are obscured by intense shearing, but in the Richards Group intense shearing is largely confined to the most northerly ridge in the N. part of the Richards Group.

There is a N-S progression of rock types in the Sicker Gp which appear, by comparison with the sequence in the Cowichan Lake area, to be in order of increasing age. Poor graded bedding in a few places was consistent with this interpretation. Along the crest & S face of Mt. Richards ridge the Sicker rx are more or less coarsely frag'l, & ctn at least 2 bands characterized by med. to coarse lith. grains in a f/g matrix. These grains may be phenocrysts, but are more likely detrital. It is uncertain whether the sequence is homoclinal or whether the hornblendic layer has been repeated by folding.

The Sicker rx have been successively intruded by mainly small bodies of QF porph & med. to large bodies of shonkinite. The shonkinite resembles gabbro in texture & the abundance of dark minls, but the feldspar is albite-oligoclase.

The older rox are overlapped on the N by poorly-exposed clastic rks of the Nanaimo Gp, & are prob. in fault ct. with them to the S. Post-Nanaimo faulting has produced a Sicker inlier along the Chemainus River.

Pyrite is common to abundant, particularly in the Sicker upper div., but ctns only traces of Au & Ag. Small amts of cpy & mal. occur in sev. small shear zones & qz veins.

The Consolidated Mining and Smelting Company of Canada Limited

DRAWN BY:	TRACED BY:	PROPERTY FILE
REVISED BY / DATE	REVISED BY / DATE	GENERAL GEOLOGY
		TOT, SHARRON AND RUM CLAIM GROUP
SCALE: 1" = 1/2 mi	DATE: JAN. 12, 1967	PLATE:

92G08 Rum Tot

COMINCO 210-0610

Mount Richards

8023 Gabbro-diorite

8024 Quartz-feldspar porphyry - intrusive

" " " - tuffaceous

8027

8018 Hard cherty tuff

8038 Felsic volcanics & tuffs

8028 Mafic to intermediate volcanics & tuffs

8007 Nanaimo sandstone & undifferentiated Nanaimo

8022 Nanaimo conglomerate

8023 Gabbro-diorite

8024 Tyee porphyry

8025 Sicker sediments

8028 Sicker volcanics - andesite

NANAIMO GROUP

Shale

Sandstone & siltstone

Conglomerate

INTRUSIVE ROCKS

Quartz diorite

Gabbro

Quartz & quartz-feldspar porphyry - Tyee

Felsite, aplite, & quartz-sericite schist

SICKER GROUP

Tuff-breccia, containing rounded feldspars, with or without hornblende plates, with or without epidote clasts

Granule tuff

Fine-grained mafic - tuff or massive lava

Sicker

8065 Nanaimo shale

7 " sandstone

8 " conglomerate

50 Gabbro

32 Quartz porphyry

8025 Argillite

4 Chert, siliceous schist

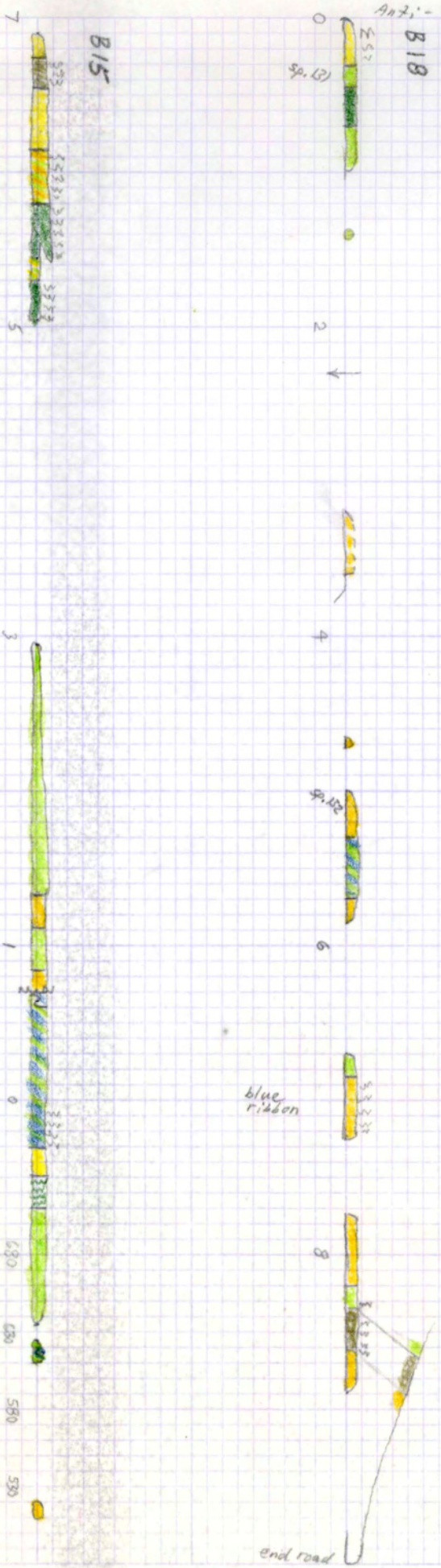
12 Felsic volcanic

55 Featureless volcanic

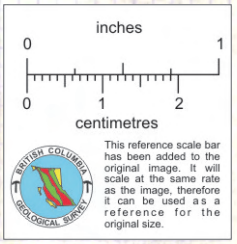
11 Hornblendic volcanic

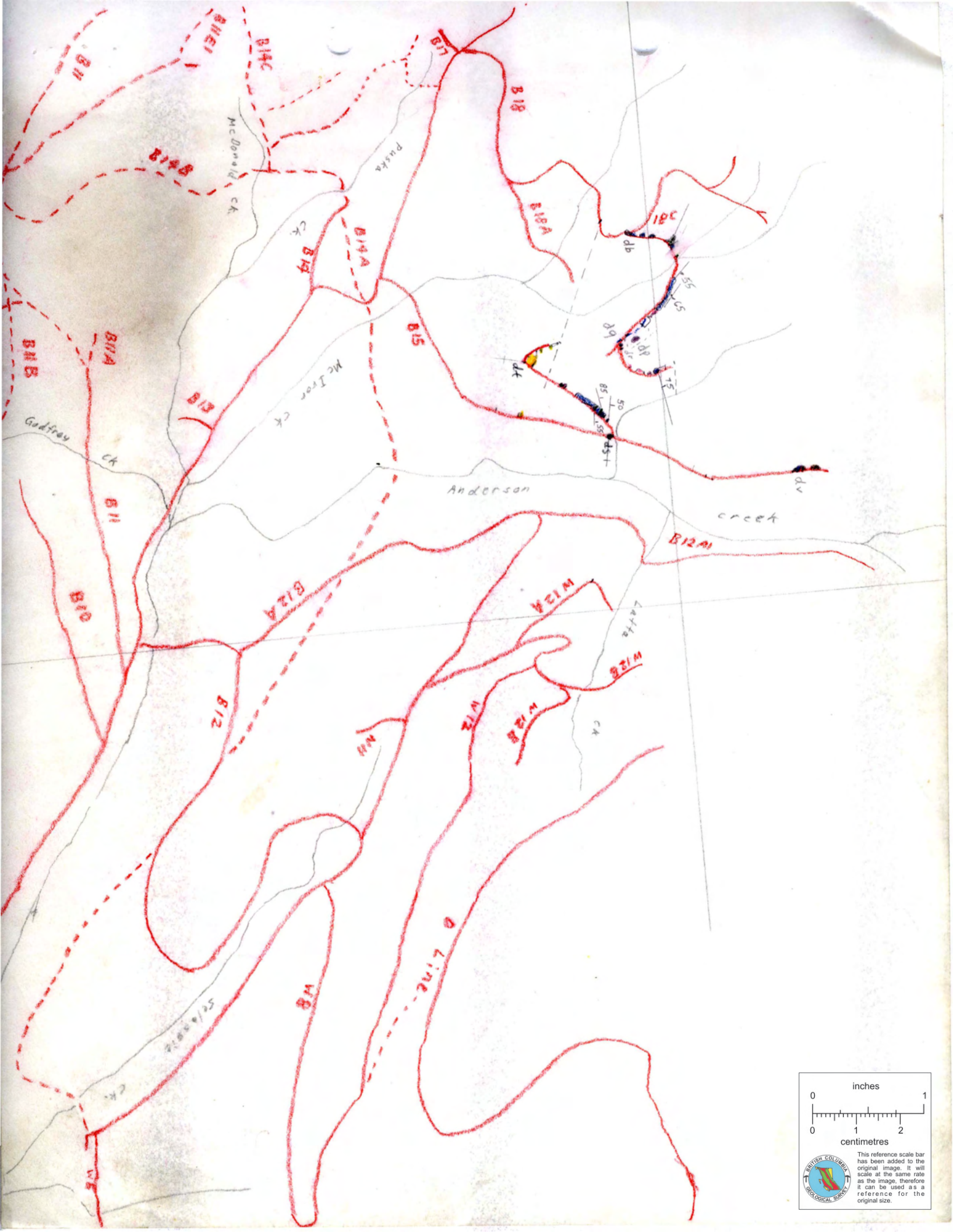
17 Fragmental volcanic, breccia

Sicker



1" = 100'





Sicker Project '78

June 6 AM: Pego & cruise B9 to snarl of rds at top of B14B.

PM: Spot-mapping along Chemainus M.L.

7 AM: Detail adjct. to McIvor Ck., mis-locating rd. B15.

PM: Cret. cgl. at upper twin brj, then Sicker W of Silver Ck. - aa-ab

8 AM: more detail on B15, then °/cs nr. water truck.

PM: more °/cs of Sicker betw twin brjs & Silver Ck on M.L. ac-ag

9 AM: °/cs along Id Hwy S. fr Chemainus R. ba-bh

13 Fin under brj by water truck; Puska Ck. & 14A; B17 & 17A

14 B Line fr B15 to divide; B20; B18A; B18-small qy

15 B18 fr small qy to McIvor Ck; B Line betw B14 & 14A

16 B16; B15 to McIvor Ck.; N ½ B14B; B14C; °/cs SW of Puska Ck.

19 Cret. exps. on Id. Hwy. fr Chemainus SE. fa-fe

20 B18 fr McIvor Ck. to anti-Latta Ck.

21 B15A & an upper sec'n. of B15

22 B15

23 AM: °/cs along Id Hwy S. fr Chemainus R bf-bm

26 PM: Cret. exps. on Id. Hwy SE of Chemainus ff-fg.

27 Fin. B15 & B18 main

28 AM: Polychain & map 600' of W12A down fr Latta Ck.

PM: Cruise parts of Chipman Ck & Chemainus R. down to brj D4 ah-ak

29 CM&S grid #1 betw Silver & Humbird Cks. ga-gd.

30 " " " - Sharon Copper

Aug 1 Cruise Lenora-Tyee area for familiarization & check Watson's map - no notes

2 Drive in to Tyee sheet on alt. access & map back to Nanaimo ct. - bn-bz, ha-hj

3 Cruise H.T.T.L. N fr Mt Prevost Rd to behind °/c bm hk-ht

4 " W of bf & H.T.T.L. almost to chicken farm hu-hx

9 Fin, mapping Id Hwy cuts S to E & N °/pass hy-hz, ia-ic

10 Gabbro across Bell-McKinnon, Nanaimo ct zone, & cruise off Westholme Rd id-if

11 Fin mapping Chemainus R M/L N of Park bend, & cruise water tank road al-ar

12 Recce S of westholme im-it

13,15,16 Systematic °/c mapping E & W of LTTL S of Richards Trail iu-jy

17 Cleanup betw Id Hwy & Westholme Rd.; Nanaimo °/c on Hwy at Mays Rd jz-kh

18 Betw. HTTL & Id Hwy S fr bm ki-kl

22,23 Nanaimo exps. on Mt. Prevost Rd & pre-Nan on SE slopes of Big & Little Sicker km-kt, la-ln.

24 Richards Trail ma-mk

25 Nimmo Road & adjct. P.L. ml-mp

26,27 Mt. Sicker Road oa-pd.

28 Crofton Rd, Reservoir rd, Cecil St. to 2-quarries area mq-nb

29,30,31 Betw. Westholme Rd, Richards Trail, & water pipeline; fin. SW of R. Trail nc-nz, ra-rn

Sept. 1 Cruise in to Crofton Lk qa-qf

6,7 H.T.T.L. & up to main face of Little Sicker kw-kz, la-lw

8 Nimmo Rd. to Eves Park

Available '79

aa - ar - Chemainus R. line

as - az

ba - bm - Id Hwy S of Ch. R.

bn - bz - E access to Tyee shaft

ca - dx - W Chipman Ck.

dy - dz

ea - ez Nimmo Rd.

fa - fg - Id. Hwy N of Ch. R.

fh - fz Banon Ck

ga - gd - CMHC grid #1.

ge - gz

ha - hj - E access to Tyee shaft

hk - hx - H. T. T. L.

ku - kz

hy - if - Id Hwy & valley flat to Nimmo Rd.

jz - kl - " " " " " " " "

ia - jx, ma - mk - Richards Trail & SW

km - kt - Mt. Prevost Rd, SE slopes Big & Little Sicker

Little Sicker

la - lw - " " " " "

lx - lz " "

ml - mp - Nimmo Rd & adjct P.L.

mq - nb - Crofton to 2-quarries

nc - nz - Richards W. Hill.

oa - pd - Mt Sicker Rd.

pe - pz

ra - rn - Richards W. Hill

qa - qz ✓

qa - qf - SW of Crofton

rn - rz Nimmo Rd. ✓

ro - rt - Nimmo Rd. to Evos Park

B18: S. of anti-Laurie Ch

sheared gs. & ser. sch.

99" arg., dk & med. grey

132" siliceous gs.

42" arg., mauve-grey

91" gs.

110" arg. & silty arg., strongly cleaved

40' ≈ 474", 18' of it gs.

B18: McIver Ch. to intrus. complex

? dk grey arg.

? gs.

96"+ chert, silty chert, & cherty siltite

36"+ siltite, light grey, siliceous, less cleaved

18" arg. or siltite, thinly-banded, siliceous

20"+ arg., dark grey

48"+ gs.

40"+ silty arg., grey to brownish

18" gs

42" gze, f/g

6" chert, pale grn.

cherty arg, pyritic

gs?

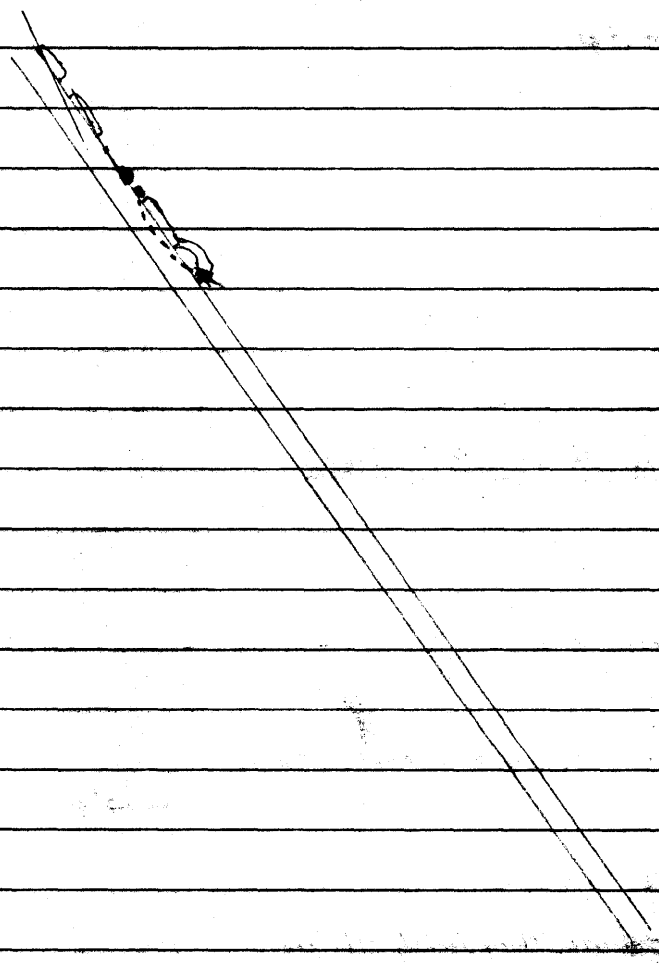
14'+ ? 17' arg. & argillac. to cherty siltite

B18: quarry

50'++ greenstone, massv.

6'+ greenstone

Sep. 11 – 79.2 mi on Mt Sicker rd (78.6 at start)
81.3 " at Lenora camp.



26 Crown Granted Mineral Claims and Fractions

Lot No.	Name	Lot No.	Name
35 G	Lenora*	43 G	N T Fraction*
36 G	Tyee*	39 G	Richard III*
37 G	Key City*	41 G	Magic Fraction*
60 G	International Fraction*	53 G	Estelle*
18 G	Tony*	18 G	Donagan***
19 G	X L*	54 G	Westholme*
63 G	Donald*	51 G	Blue Bell*
108 G	Muriel Fraction*	50 G	Moline Fraction*
87 G	Doubtful Fraction**	59 G	Westholme Fraction***
85 G	Thelma Fraction**	21 G	Dixie Fraction***
86 G	Imperial Fraction**/***	44 G	Golden Rod*
20 G	Herbert*	47 G	Nellena*
110 G	Phil Fraction**	4 G	Acme***

* Chemainus District ** Seymour District *** Somenos District

Lands Optioned From V. H. Patriarche

"All those parcels of land situate in the Chemainus Land District on Vancouver Island in the Province of British Columbia lying within the boundaries of the area outlined in red shown on the attached sketch marked Plate I described as commencing at a point nine thousand (9000) feet due east of the northwest corner of Block 278, thence due north in a straight line a distance of six thousand (6000) feet, thence east at a right angle in a straight line to the western boundary of the east one-half of section seven (7), range one (1), thence northerly along said western boundary of the east one-half of section seven (7), range one (1) to the northern boundary of section seven (7), thence easterly along said northern boundary of section seven (7) to the eastern boundary of range two (2), thence southerly along said eastern boundary of range two (2) to the point of intersection with the southern boundary of the Chemainus Land District, thence westerly along the said southern boundary of the Chemainus Land District to a point on said southern boundary being the intersection of the southerly extension of the first described line, thence northerly along said extension to point of commencement, the area herein described comprising twenty-five hundred and forty (2540) acres, more or less."

OWNERSHIP

The properties described above are owned or held under option by Mt. Sicker Mines Ltd, N.P.L.

92B/13b - Mt. Richards - Sirius, etc. As. R. 19 - geol.
2397 - geol, mag - Copy E&N file
E&N correspondence file.

92C/16h - Anderson - McIvor Cks - Yam-Ohm As.R. 935 - IP - Copy E&N File
Geol. map in E&N file. - Cominco grid #2

92C/16h - Pogo As. R. 566 - geol.

92B/13e - Chipman Ck - Lady A E&N file 1953
MMAR 1956 p. 135.

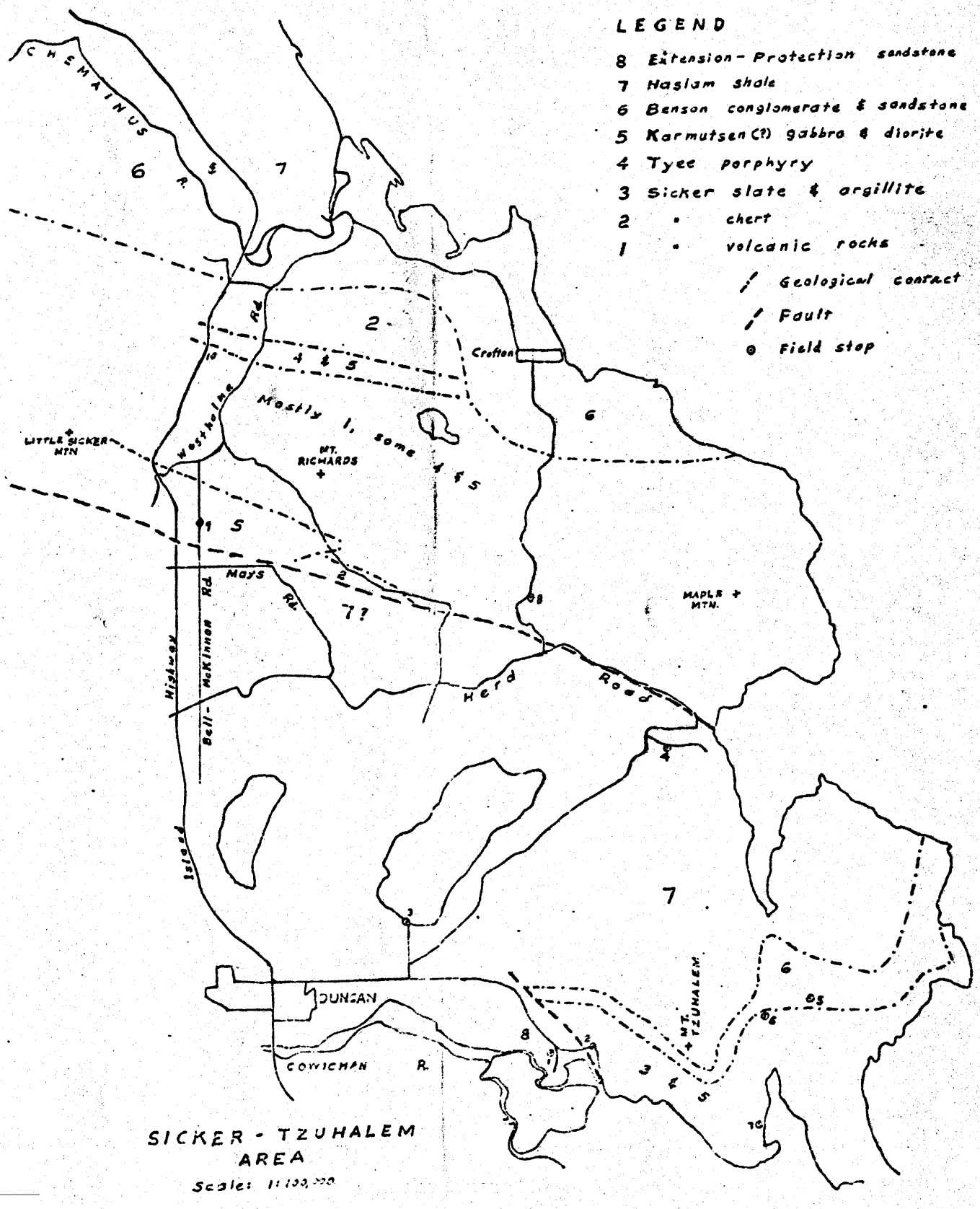
92B/13c, f - Silver & Hambird Cks - Sharon Copper - E&N file - Cominco grid #1 - IP & geol. maps

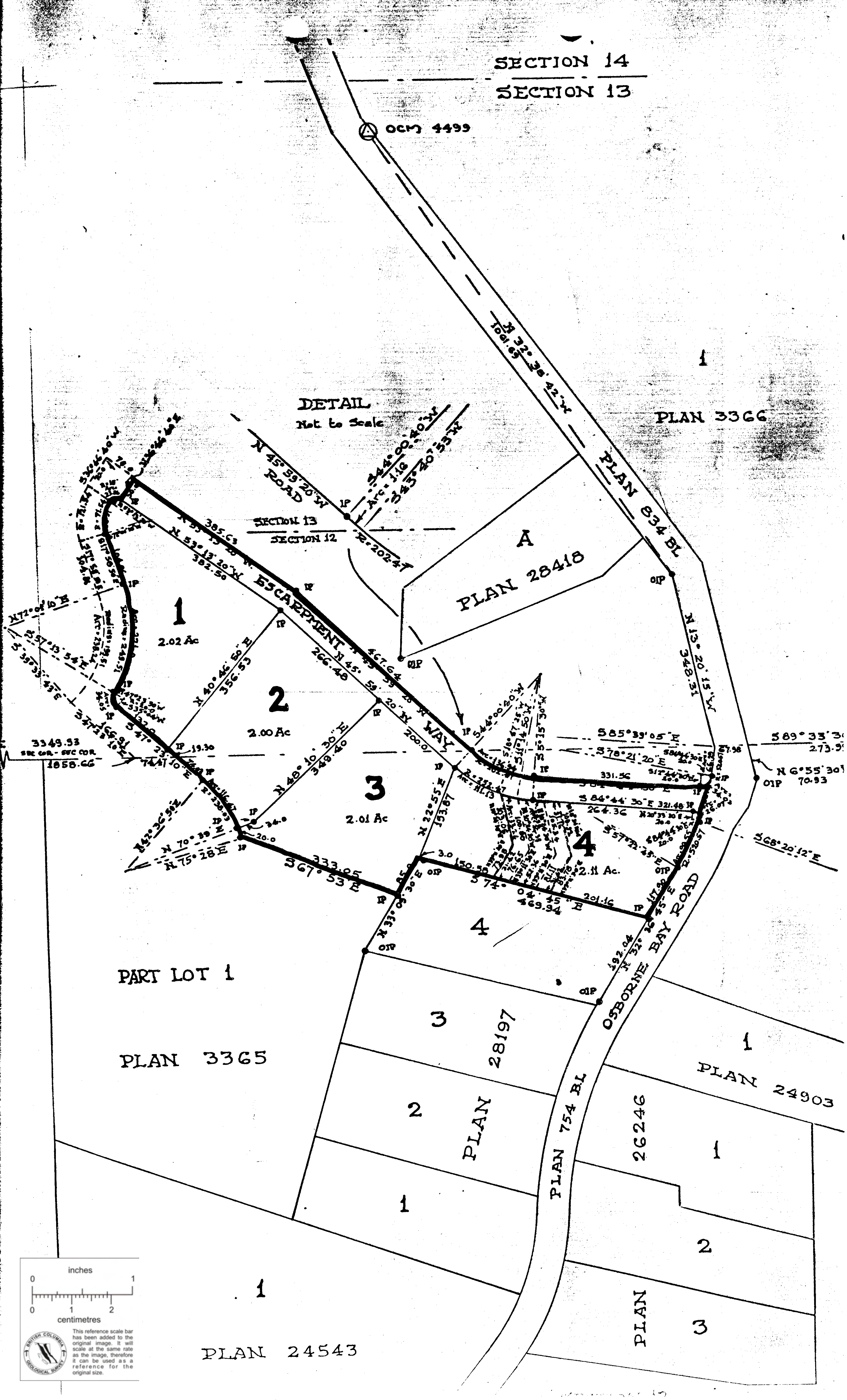
92B/13c, f - " " " - Tet, Rum, Tista View - As. R. 936 - Cominco IP grid. #1

92B/13c - Copper Canyon - As. R. 3099 - IP
4626 - geol. -

92B/13c, f CF, Dawn, ML13, 17, 18 - As. R 3950 - geol. - Ducanex
" " 3951 - P "
" " 4904 - P Mt. Sicker M.L.

92B/13c Lenora - Tyee - Richter 1104 - geol. - Mt. sicker M.L.
1714 - P " " "
5164 - D Dresser Ind.





SECTION 14
SECTION 13
OCM 4499
N 32° 38' 42" W
1061.69
1
PLAN 3366
DETAIL
Not to Scale
N 45° 59' 20" W
ROAD
SECTION 13
SECTION 12
A
PLAN 28418
PLAN 834 BL
N 13° 20' 15" W
348.31
1
2.02 Ac
2
2.00 Ac
3
2.01 Ac
4
2.11 Ac.
ESCARPMENT WAY
385.63
N 53° 13' 20" W
382.50
467.64
N 40° 46' 50" E
356.53
266.48
N 48° 10' 30" E
349.40
N 22° 55' E
193.67
S 85° 39' 05" E
S 78° 21' 20" E
331.56
S 84° 44' 30" E 321.48
264.36
S 89° 33' 30"
N 6° 55' 30"
70.93
S 68° 20' 12" E
S 67° 53' E
333.05
S 74° 04' 35" E
469.94
201.16
N 32° 36' 45" E
192.04
3349.53
SEC COR. - SEC COR.
1858.66
N 72° 05' 10" E
N 70° 39' E
N 75° 28' E
4
OSBORNE BAY ROAD
PART LOT 1
PLAN 3365
3
2
1
PLAN 28197
PLAN 754 BL
1
PLAN 24903
26246
1
2
PLAN
3
1
PLAN 24543
inches
0
1
centimetres
0
1
2
This reference scale bar has been added to the original image. It will scale at the same rate as the image, therefore it can be used as a reference for the original size.
BRITISH COLUMBIA GEOLOGICAL SURVEY