TATSAMENIE

DB#5 842454 June 15

Location: NW side Tatsamenie L. (COSSAN)

Weather: ~~cloudy, snow~~ mostly sunny & windy

△ DB2T1-39:

- % on top of cliffs
- weathers - rusty brown
- fresh - grey

DB2T1-39 %

- siliceous breccia
- aphanitic (chalcedony)
- disseminated py (<3%)
- extensively fractured
- olive brown material in fractures

- % is extremely fractured & weathered

DM2T2-117 TALUS FINES

△ DB2TI-40:

- below △39 at base of yellow & rusty brown cliff face
- o/c is extensively fractured
- qtz veins up to 6 cm thick with rusty patches
  - no visible sulphides

DB2TI-40 o/c - cliff face

- fgs, altered Fs ϕ dyke (?)
- maroon → purplish grey
- fractured
- weathers yellow to rusty brown

DB2TI-41 vein o/c

- chalcedony vein < 5 cm
- rusty patches
- no visible sulfides

△ DB2TI-42:

- Talus slope 10 m below △40
- DB2TI-42 TALUS
  - weathers brown to yellow-brown
  - carbonaceous to carbonate-siliceous altered vx
  - sandy to pebbly carbonate sandstone
  - lst, vx, qtz granule fragments
  - coarse to fine qtz veining & replacement
  - disseminated py 2%

*(Maybe Jurassic sed.)

- Source ℄ is 50 m up on cliff face

- Grizzly bear on meadow to the east

* △ DM-2T2-119!

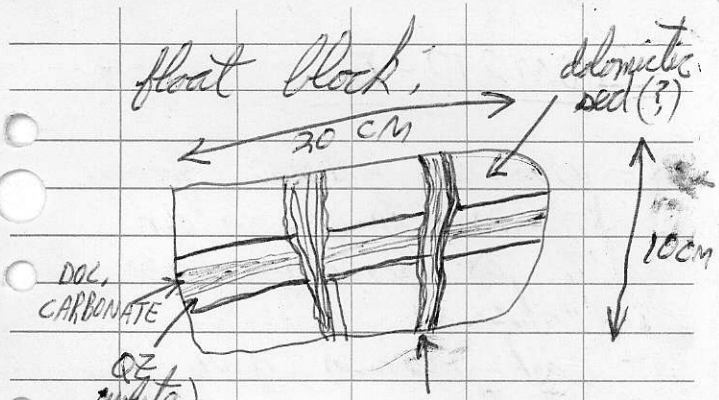
△ DM2T2-119b.

(TALUS SITE) middle of talus slope
- % to the SW is dark greenish grey
- sheeted weathered blocks resemble pillows but are columnar joints & blocky pieces
- calcite veinlets & patches
- epidote + pink K-spar veinlets ~ 3 mm thick
- patchy epidote alteration also
- local serpentization? (partial)

DB-A TALUS (HAND SPECIMEN)
- matic FS ϕ
- dark grey
- ep/K-spar veinlet
- altered FS phenocrysts

DM2T2-119 TALUS FINES

float block.



- 2 generations of veining
  - QZ - carbonate vein cut by carbonate veins

DB-B cliff face o/c

- dolomitic altered, vc
- greenish material
- layered

△ DM2T2-121.

- 10 m up hillside from DM-121 there is an o/c of volcanic breccia (lahar?)
- dark greenish grey matrix + clasts
- frags. are subangular to subrounded
- amygdaloidal - carbonate infills vesicles
- mafic ss
- DB-C vesicular basalt clasts from volcanic breccia
- local carbonate veins < 2 cm - disseminated py 3%
- orange brown cliff face is carbonate + qtz altered ss
- little py
- phyllitic/graystone blocks < 5% of face

△ DM2T2-122:

- fgr, well bedded (?) siltstone
- pale greenish grey
- relatively soft

DB-D greenish siltstone

- greenish volcanics on cliff above △ 122

△ DB2T1-243:

- pale greenish grey vx, cut by brown carbonate veins
- veins have a random trend & vary in width up to ~1 m thick

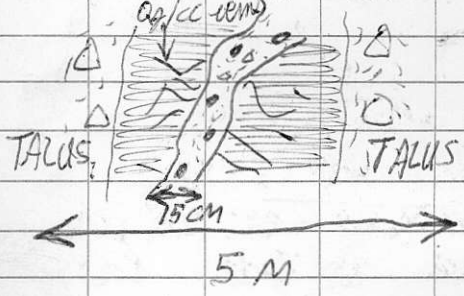
DB2T1-43 greenish vx (?)
- altered, fgr, fractured

DM2T2-124 Talus fines

- cliff, have less carbonate alteration

△ DB2T1-44!

- % in crack bed



- intrusive pebbly cgl into dark black/dk grey metasedimentary argillaceous lst
- sharp, wavy contact
- massive cgl
- no bedding evident

DM2T2-125

DB2T1-44 pyritic ~~dust~~
- dark grey
- massive carbonate
- cut by sedimentary dyke (cgl)
- also cut by white qtz ± cc veinlets ± lenses that don't cut the cgl

DB-E cgl
- polymictic
- well-rounded clasts
- weathers greenish grey
- silty matrix

cgl from 15cm dyke

△ DB2T1-45.

- orange - brown knobby @ at end of alpine meadow
- carbonate - qtz altered

DB2T1-45 altered dyke (?)
- weathers - orange brown
- fgr, heavy (diabase?)
- fresh - grey; calcite veins + fem. on fracture surface

- meadow soil is blackish & there is limestone float with traces of pyrite

DM2T2-127 black soil

△ DB2TI-46:

DB2TI-46 TALUS
- weathers - brown
- fresh - light brown fgr, partially silicified (?)
- fractured & brown weathering, rough, % along entire hillside
- carbonate veinlets

DM2T2-129 TALUS FINES

△ DB2TI-47:

- small (< 50 m) knob of orange - brown weathering rx

DB2TI-47
- pyritic 9c <2%
- carbonate - qtz altered

DM2T2-131 Talus fines

Summary:

△ 39 to 47

Traversed along the talus slopes on the Gossans on the west side of Tatsamenie Lake.

Fs porphyry dykes cut the altered zone around △ 39. Chalcedony veins occur ~~between~~ near porphyry / gossan contacts.

Some of the orange-brown alteration zone appears to be a coarse to fine-grained grit of lst, qtz & other fragments.

Some greenish volcanic siltstone & breccia are unaltered. Grey, pyritic lst ~~also~~ at △ 44.

Qz-carbonate veins cut unaltered & altered rxs.

9 rock samples for analysis

DB #6 June 16

Location: Gossan on west side of Tatsamenie L.
Weather: cloudy & cool

MG
⚠ ~~DB~~ 2T2-48:

- up gully at 1st o/c
- o/c weathers dark greenish grey
- fresh-~~dk~~ greenish
- massive, hard & heavy
- some of o/c is PX gabbro
- locally thin ~~white~~ qtz/cc veinlets < 2cm thick cut the greenstone

MG 2T2-48 C-horizon
- local epidote patches

△DB2T1-48:

DB2T1-48 ± 0/c
- greenstone

- trace of chalcocite (?)
- 0/c along gully
- unaltered greenstone from △MG-48 to this △
- 0/c's to the NW are beginning to be altered to orange-brown, carbonate-qtz va

MG2T2-49 C-horizon

△ DB2T1-49:

- o/c weathers orange-brown
- fresh - grey to brown
- calcite qtz-carbonate altered rx

DB2T1-49 qtz-carbonate altered rx
- fgr, massive o/c

MG2T2-50 c-horizon

△ DB2T1-50:

- orange-brown o/c's continue for ~100 m past △49 then unaltered greenstone crops out
- this △ is foliated gst

DB2T1-50 gst o/c
- locally foliated

MG2T2-51 c horizon
- altered carbonate-qtz talus.

△ DB2T1-51:

DB2T1-51 %c
- qtz - carbonate - vein
- mgr to fgr
- weathers orange-brown

MG2T2-52 c-horizon

- % of brownish altered rx cut by orange, brown qtz-carbonate dyke <1.5 m thick
- dark grey, unaltered gst above this △

△DB2T1-52:

- talus, slope below - purplish-dark greenish %c
- abundant hematitic slickenside surfaces on talus blocks
- fresh rx are dark greenish

- all tend to be heavy
- rusty patches
- chalco, bleb & py are locally present

DB2TI-52 TALUS BLOCKS
- chalco + py (up to 4%)
- chalco associated with pink calcite
- some pieces are siliceous with disseminated py <2%

- white carbonate veinlets within dark green mafic rx (gabbro?) & fgn, siliceous rx ~~rx~~ (possible meta-sed?)

- epidote in both rxs

△DB2T1-53:

DB2T1-53 altered qtz-carbon ± py
1x in c
- fgn, heavy
- fresh - grey
- weathers - brownish

- c/c by angular blocky weathering on cm scale
- local talus blocks are siliceous, gritty, mgr sandstone, well-bedded siltstone with rare pyrite (< 1%)

*FLOAT DB2T1-53a qtz-carbonate altered sandstone

*FLOAT DB2T1-53b blue ± green mins in QZ-FD vx

MC2T2-55 c-horizon

- between △ DB2T1-53 & △ MG2T2-56 the talus is dominantly fgr, well bedded siltstone & sandstone
- some thinly bedded, light grey dolomitic lst
- beds of coarse sandstone
- all beds weather brownish due to Fe-carbonate alteration

△ MG2T2-56:

MG2T2-56 B- horizon

△ DB2T1-54:

DB2T1-54 %
- foliated ss
- weathers - brown
- fresh - greenish
- white carbonate veinlets

MG2T2-57 talus fines

- c/c is well foliated, dark brown & hard

△DB2T1-55!

DB2T1-55 TALUS BLOCK
- well bedded, qtz-carbonate altered sandstone (grit).

DB2T1-56 TALUS BLOCK
- siliceous
- fgn to aphanitic
- light grey

- talus slope, dominantly well bedded grits, siltstones ± dominated siliceous (cherty?) rocks
- some carbonate is reddish brown, some orange to brown

- looking NE;
- gst blocks within altered [illegible] - carbonate xls.

△ MB2TR-57:

- on brown knolly % above talus slope of △ 55
- foliation:

060/80 SE

- [illegible]
- moderately unaltered, well laminated sed.
- some grey, thinly laminated lst (?)
- %'s weather brownish

MG2T2-58 talus fines

- good exposure of carbonate-rich sed's & siliceous ss that was sampled at △55

- cliffs in the area are all orange-brown

- qtz-carbonate veinlets from < 1cm up to 1m cut the rocks
  - most veins are < 2cm thick

- veins in the area tend to be heavy

- the foliation is locally folded into open folds that plunge steeply
- foliation tends easy

DB271-57 grey laminated lst

Summary.

△48 to △57

Traversed northwestward from the west shore of Talsemene L. up along the talus slopes below the cliff faces of gossan.

Rocks are highly altered by qtz & Fe-carbonate. Some area (blocks?) of greenstone (ex. gabbro) remain unaltered. Sulfides are rare. Minor chalco & up to 4% pyrite is present in some of the xcs. Pyrite is present in both altered & unaltered xcs.

10 → chip samples

Project	M 504	NTS	104 K	Scale		Page	of	Traverse	DB #5
Sampler	DEREK BROWN	Location, Target (words)	GOSSAN ON WEST SIDE OF TATSAMENIE L.			Sample Nos	39 to 47		
Date	JUNE 15/82	photo no.	A11586-310 (T9)			Cert. Nos			

BC11666 2 — CSM

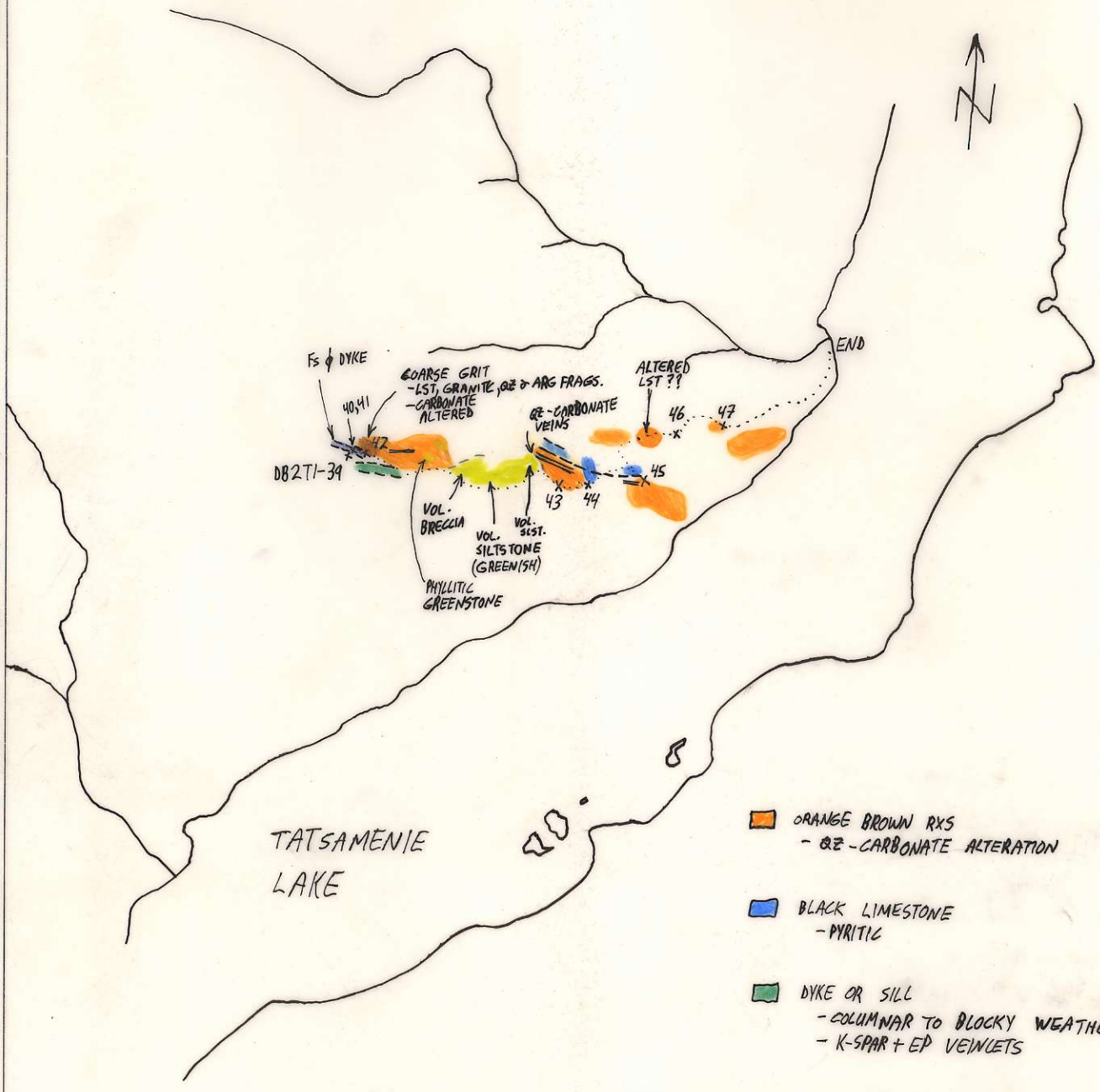
ATTITUDES (100/40 N)

SANDSTONE SILTSTONE | CONGLOMERATE | VOLCANIC | CHERT | SHALE | LIMESTONE DOLOMITE | INTRUSIVE | GOSSAN, MINERALS

SPECIMEN SITE A,B,...; DO NOT WRITE ON OTHER SIDE OR USE COLOURS

SILT X SOIL ● ROCK ■ PAN △ WATER O

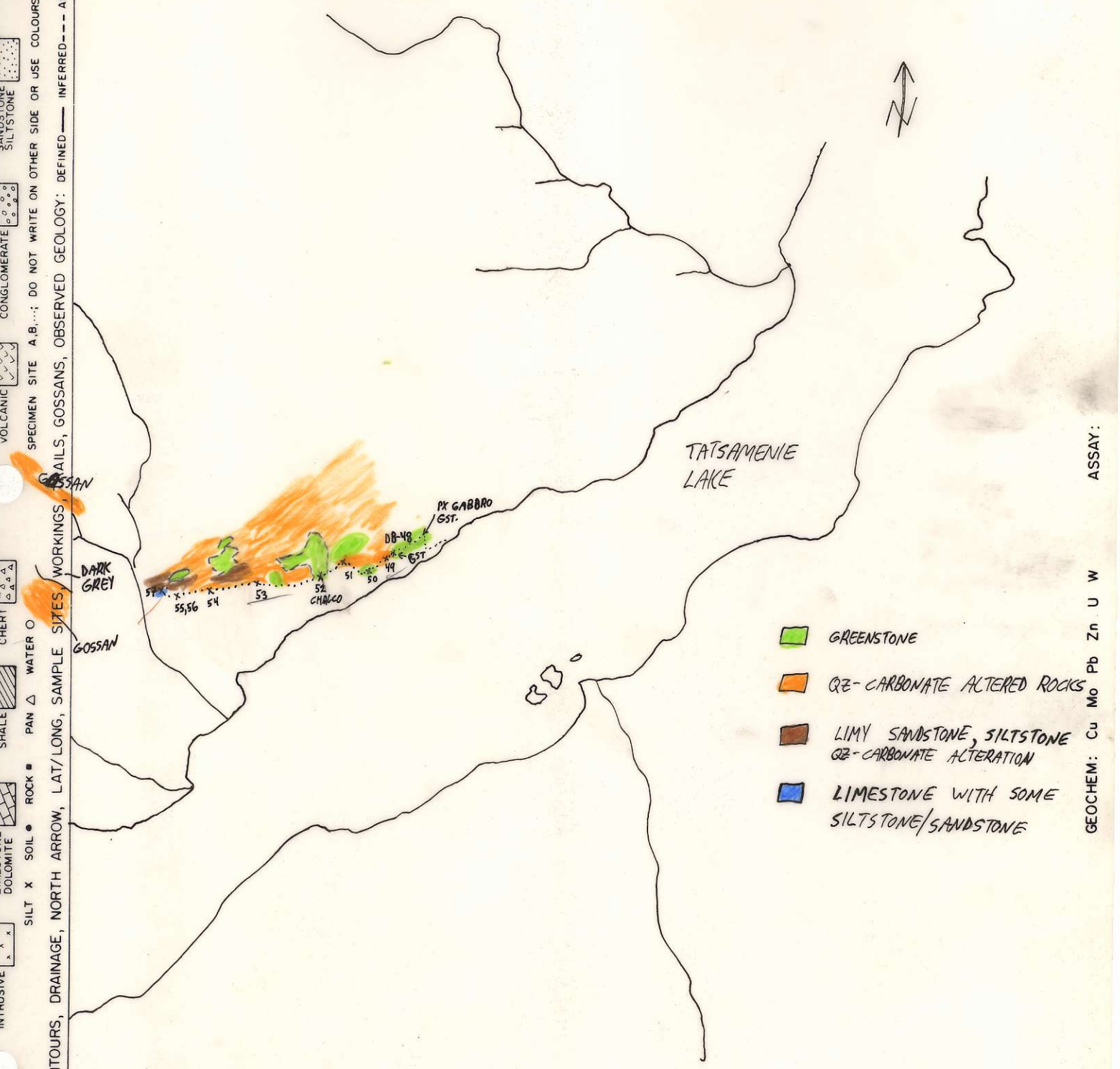
DON'T FORGET CONTOURS, DRAINAGE, NORTH ARROW, LAT/LONG, SAMPLE SITES, WORKINGS, TRAILS, GOSSANS, OBSERVED GEOLOGY: DEFINED —— INFERRED - - - ASSUMED.....



GEOCHEM: Cu Mo Pb Zn U W ASSAY:

CHEVRON MINERALS —— DAILY TRAVERSE REPORT

Project	M 504	NTS	104 K	Scale	Page	of	Traverse	DB #6
Sampler	DEREK BROWN	Location, Target (words)	Gossan on west side of Tatsamenie Lake		Sample Nos	DB2TI-48 to DB2TI-57		
Date	JUNE 16	photo no.	A11586-310 (T9)		Cert. Nos			



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GOSSAN, MINERALS | INTRUSIVE | LIMESTONE DOLOMITE | SHALE | CHERT | VOLCANIC | CONGLOMERATE | SANDSTONE SILTSTONE

BC11666 20-CSM ATTITUDES 100/40 N

CHEVRON MINERALS —— DAILY TRAVERSE REPORT