

ATHELSTAN -
JACKPOT

825605

"Rite in the Rain"

WEATHERPROOF
LEVEL BOOK

No. 310

NCI

NEVILLE CROSBY INC.

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MINING, FORESTRY AND DRAFTING SUPPLIES

LINDA LEE, 1990

Sept 13/90

Grid mapping

L 6+00N 4+75W

v large, somewhat rounded
o/c of green med-coarse
grained intrusive. Numerous old
trenches nearby + old cabin;
no signs of mine'x - no o/c in
trenches.

Intrusive is quite mafic w \approx
50% mafic (px), avg 3-4 mm, & 50% fsp
 \Rightarrow diorite - gabbroic compos. - prob

Nelson. BCS 13976 - Litho

L 6+50 W 1+50N

old trench 4' deep dug
in dark green, str magnetic, rusty
volcs. Eng w coarse px xtals, poss
this is unalt'd volcs before serpentine
alt'n. v dense, min carb stringers.
Weak perov serpentinization

Was BCS 16998

- rename as 13977 - Litho

L 7+50W 1+25N

- V shaped trenches, 1.5-2 m deep in fgy green volc, weak perv carb + mod qtz / carb units.

4 m deep shaft @ NE end of trench - Rx well fract'd, rusty.

Dump consists of rusty, perv carb

alt'd fgy dior (poss. ^{Nelson} _{off}) & white, massive qtz vn (to 20 cm in dump)

Was BCS 16994 - qtz vn

16995 - diorite [litho dior]

may be weak phyllite alt'd min py

rename as

16994 → 13978 1CP

16995 → 13979 1CP

L 7+75W 2+75N

From talus slope @ base of large cliffs / o/c. Dark green, fgy, equigranular intrusive - prob dior comp.

BCS 13980 - LITHO

L 5+50 W 1+20N

Small o/c on line of
massive alt'd serp. Pale Orange -
gray fresh surf. W 10% rem
dark serp. along folia. Rusty
weathering. No good orient
to folia

Was BCS 17000

→ 13981 12 elem ICP + Au

L 5+35 W 2+25N

4 m deep shaft by side
of road on white - pale orange
intense carbonate. Prob an
alt'n of serpentinite. ~100% calc /
dolom(?) perv 8 as un3.

Massive.

BCS 13982 - 12 elem ICP + Au

Sept 18/90

L 5+00 W 4+25 N

large area of o/c of
dark green, coarse grained
ultramafic (pyroxenite). Smooth
Mod
poor
serpentine? o/c surfaces - many old workings
near here + minor o/c of
fry gst. This looks like
it may be the original rx
which is allied to listwanite
elsewhere on the property

Sample BCS 13983 - Litho

L 5+00 W 5+50 N

large area of o/c of
massive blocky fracture, coarse
grained intrusive - = 60% coarse
mafics (px) + 40% coarse plag.
locally get pieces that resemble
u/m above (serpentinized) - possibly
these two rx are related
ie) this is feeder to?

L 5 N 6+25 N

Just after cross major
road is large well scoured
o/c - weathers dark green / white
intrusive looking. Fresh surf is
med grained, dark green dior -
locally coarse px rich (gabbroic)
May be weak - mod serpent,
weakly developed fol'n.

L 5 N 6+75 N

o/c in road cut of
relatively fresh, massive,
blocky fract. intrusive.
Med grained crowded fsp
porphyry, 40-50% plag, avg 1mm
may be weakly aligned + 20%
mafics in fgy gneiss - dioritic
compos. Weak^{thead} epidotization
of fsp.
BCS 13984 - LITHO

L SW 7+25 N

recent pit - poor bedrock
exposure but see v rusty
gossanous zone in floor

(possible trend 070°/90 ???)

Hosted in fng dior - or fsp
porph - relatively fresh.
Gossanous material is
siliceous, v rusty, porous
"ferricrete"

⊕ CS 13985 - 12 dem ICP + Au

Suspect this is on Winnipeg -
Golden Crown property
Just passed line marking
C/L of tunnel

Claim post @ 3+60W 5+15N

Corner Post No 109374

Claim Name GN Fraction

Post # Identification Post

Locator LCP 1500 S to LCP

PMC No 282188

LCP 130° SE 61 M SE to LCP

Nov 4, 1989

2 tags on this post
say same thing - looks
like fraction staked using
wrong tags

Friday, Oct. 19, 1990

CJC

- cloudy and fucking cold.

Purpose: To walk some previously mapped lines to familiarise with rock types.

① Begin mapping unmapped lines in vicinity of workings.

A1 L 500W, 6+25N

A2 Beginning mapping on L4+50W, 1100N at road

- blocky float along roadside is combination altered (mod) serpentinite and listwanite

A 4+65W, 1115N, small roadside o/c of weakly altered serpentinite.

A 4+70W, 1125N, small o/c of ^{Fe} carbonate altered, foliated, light orange listwanite.

A L4+50W, 1155N, old skidder trail

- abundant blocky angular altered serpentinite/listwanite boulders.

②

OCT 19, 1990

▲ 4460W, 2115N, angular blocky float of various lithologies

① Fe carb listwanite

② so-called P.g. diorite,

③ coarse grained diorite.

▲ 4455W, 2123N, rounded slightly float of very coarse grained pyroxene (Augite?) gabbro.

▲ 4480W, 3100N, sub crop of possible coarse grained pyroxenite

- approx. 70% mafics; dark green pyroxenes; 30% feldspars??

- possibly some dark black serpentine

- trace pyrrhotite (magnetic) stringers

- hand sample taken for comparison purposes.

▲ 4450W, 4400N, old line trending 050 with stn marker 4476E, 462150N

OCT. 19, 1990

- Δ 4430W, 4450N, float material is combination of listwanite/pyroxenite, medium grained diorite, and possibly unaltered serpentinite.
 - underneath old power line.
- Δ 4450W, 4475N, old trench bearing 030 for 20m, sides have caved, no rock visible.
- Δ 4450W, 5400N-5425N large exposure of very coarse grained diorite/gabbro; equant, randomly oriented feldspar and mafic minerals about 2-3mm in dimension; occasional veinlets of feldspar/gte; jointing is oriented 220/78 (RHR); occasional v. fig. bandings, light green in colour, almost cherty in appearance, approximately 2-3cm wide, this seems rather unusual

Oct. 20, 1990

Athelston-Jackpot

1:2000 scale

mapping.

Line H400W

A1 H400W, 5+75N

- roadcut
- 1m wide feldspar porphyritic, bleached with rusty staining granodioritic to granitic dyke
- 078/803 PHR
- host rock in area is dark green equigranular medium grained diorite.

A2 H+25W, 5+50N

- massive, dark green fine to medium grained diorite.
- equigranular.

A3 H400W, 5+50N

- small trench 10m long long 060°
- float in trench is gabbroic to coarse grained dioritic.

Oct. 20, 1990

Δ4 L4400W, 3175N

- subcrop of dark green with grayish greasy lustre, coarse grained intergrown crystals
- possibly gabbro or pyroxenite in process of being metamorphosed to serpentinite.
- resembles pyroxenite, but crystals are serpentine (var. talc)
- ie scratch easily and have greasy talc feel.

Notes: no outcrop from this point on to first road intersected at L4400W, 3175N

Line 3150W

Δ5 L3150W, 0150N

- road

Δ6 L3150W, 2130N

- very small subcrop of altered serpentinite; foliation developed but no exposure assuredly in place for

Oct. 20, 1990

good measurement

- weak Fe-carbonate alteration

A7. L3+50W, 2+95N BCS13986

- altered serpentinite/listerite.

- light grey^{green} color with pinkish hue.

- Fe carbonate alteration, rusty staining

- quite competent rock although well developed foliation.

- quartzose lenses.

- serpentine laminae.

- this outcrop is on S/W side of a prominent gully long 302° which may be a structure.

- trace pyrite in sample.

A8 L3+50W, 4+35N

- road

- dark green^{to blk} serpentinite

- laminar appearance with greasy lustre on fractured surfaces

- moderately to strongly magnetic.

Oct. 20 / 1990

④
Line 3+00W

Δ9 L3+00W, 3+75N [BCS 13987]

- roadside
- subcrop and outcrop of dark green to black moderately to strongly magnetic serpentinite.
- greasy luster.
- fibrous serpentine (asbestos) when flaked
- lamellar.

Note: - very little to no outcrop on this section of L3+00W
- L3+00W, 0+10N road

Line 2+50W

Δ10 L2+50W, 0+50S [BCS 13988]

- road
- medium to coarse grained ophiolitic gabbro
- massive, dark grey green 60% coarse, sub to anhedral pyroxene (cpxaugite??)

Oct. 20, 1990

- 40% plagioclase?
- weakly calcareous, strongly silicified & locally
- trace to 1% f.g. euhedral diss pyrite
- v. v. weakly magnetic in areas (possibly pyrrhotite, not magnetite).

Δ11 2+60W, 0+50s. BCS13989

- listwanite float
- this sample was found at the base of an old trench trending 060°
- trench is 1m wide and 15-20m in length.
- sample extremely altered.
- brecciate to 25%
- malachite staining locally to 5%
- silica flooded and veined.
- rusty color, on weathered surface; tr. azurite
- host rock at road is extremely altered serpentinite.

⑥

Oct. 29, 1990

BCS13990 - outcrop in area of
BCSB988 at base of trench
on road

- sample is extremely altered,
(silicified) serpentinite
- very fine high density stockwork
of quartz veins
- dark green, foliated
- trace fuchsite along foliation
- trace malachite

A12 2163W, 0450S BCS13991

- quartz vein possibly 10cm
in width and traceable for
4m through trench
- trace calcite, fuchsite
- appears associated with
1/2 m wide porphyry dyke
at 270°/86 N
- trace pyrite.
- bound by serpentinite.

Oct 20/90

Note: 2+70W, 0+40S

- two trenches \approx 1m wide
for 20-30m
- ① 060°
- ② 128°

D13 2+50W, 0+00N, Baseline BCS13992

- quartz vein injection breccia
- angular brecciated fragments
in quartz vein groundmass
- trace calcite, some Fe carb.
- lithologies vary from diorite
to serpentinite.
- may not be in place
- trace sulphides
- fr fuchsite, malachite.

Note: 2+50W, 2+30N

- well foliated altered serpentinite /
listwanite \uparrow 300/28° RHR.
- Fe carb rusty weathered
surface

Oct 20, 1990

A

Line 2100W $\Delta 14$ L2100W, 2150N

- road

 $\Delta 15$ L2100W, 0120N

- old pit approximately 7m deep
- looks like either 1st waste or altered serpentinite.

Note: ending at baseline and going over to line 1450W to start back

Line 1450W

Note: beginning at baseline and heading north.

 $\Delta 16$ 2100W, 0125 - 0150N

- two trenches, 1 x 25m long, along the line, 2 x 10m branching into two
- all rocks in rubble pile are fairly unaltered serpentinite.

Oct. 20/1990

Note: L1750W, 2125N

- road

- will end mapping for today.

- list granite outcrop on road

Oct 21, 1990

Athelstan-Jackpot

1:2000 mapping

Weather: Fog; four inch dump of snow last night; can't see a thing

Purpose: mapping lines 2W, 1+50W, 1W and 0+50W in vicinity of trenches

L2+00W

$\Delta 17$: L2+00W, 1+00S

- road

- dk of fine grained green massive diorite

- glacial striae (?) at 080

$\Delta 18$: L2+00W, 0+75S BCS13993

- trench. brg 134° for $\approx 20m$

- rock in trench is orange brown weathered; fresh surface

is grey in colour with small (1cm) quartz veins in stockwork pattern

- alteration is Fe-carbide rock is weakly foliated.

- is twanite.

Oct. 21/1980

Δ19. L2400 W, O + ~~77~~⁵² S BCS13994

- small pit 2m x 2m x 0.5m depth.
- foliated, Fe-carbonate altered
- light grey
- 5% fuchsite / mariposite
- brown orange weathering.
- foliation more or less flat lying
- siliceous comp. bands

Δ20 L2400 W, Baseline

- over to L1450 W

276/44 R/R

L1450 W

Δ21 L1450 W, B₂

Δ22 L1450 W, at 1460 W, O + 25 S

BCS13995

- small zone of several 3cm - 5cm wide quartz veins
- well developed cockscomb texture from vein wall

Oct 21/90

Inward

- white (pure) bull quartz at vein wall and towards centre with sudden change to slight orange colour at centre



- 276/44 RHR

- some vuggy areas



- exposed for 1m.

D23 L150W, O150S

- three pits along line at 315°
- all pits seem to be driven to follow ~~the~~ dip of foliation in area
- all are in altered serpentinite or listwanite.

Oct 21, 1990

Pit #1 1165W, 01405

- old winze? driven down 1.5 m and then angled toward 030° and continuing for unknown distance

Pit #2 1150W, 01505

3m deep and angled along foliation

- is actually following structure at $312/52$ RHR
- shear zone ≈ 0.5 m wide
- gouge material.

Pit #3 1142W, 01515

- 1.5 m deep following same shear, as Pit #2

Oct. 21, 1990

Δ24 1+50W, 1+25S

- road

- also outcrop of weak carb altered serpentinite with weak to moderate magnetism.

Line 1+00W

Δ25 - ~~to~~ 1+00W, 1+70S - road

Δ26 0+75W, 1+25S BCS13996

- portal to adit striking N75E along same trend as grid lines
- rusty coloured rocks
- grey on fresh surfaces
- Fe-carb altered
- listwanite.
- tr, malachite.

Δ27 1+00W, 1+95N

- road

(6)

Oct. 21/1990

Line 0+50W

$\Delta 28$ L0+50W, 1+15N
- road

Notes: 0+95N - road.

$\Delta 29$ 0+50W, 0+95N - 0+50N

- old Athelstan workings?
- two portals in altered serpentinite / listwanite.
- ~~not~~ driven at 300°

$\Delta 30$ \approx 0+70W, 1+25S

- excavation with 3 short (L 3m) rods
- rock type is altered scpp / list.
- structures in area
 - 254/405
 - shear structure / foliation
- possible coarse grained intrusive in west wall.

- old samples in area 21108NW,
21927NW, 21929NW

Oct 21/1990

Note: 0450W, 1450S

- outcrop is fairly massive dark green

- looks like serpentized gabbro? if that's possible but is most likely serpentinite.

Line 0400W

Δ31 0400W, 1400S

- massive or brn weathered quartz-eye porphyry
- 5% quartz-eyes

Oct 22, 1990

Atholstan Jackpot

1:2000 mapping

Weather: clear, sunny, cold.

Purpose: mapping lines 250W, 200W
north of road.

Line 245W

A32 L245W, 2175N

- Road

Notes 245W, 3125N
road

A32 2435W, 4100N BCS 13997

- dark green medium to coarse grained ophiolitic gabbro
- mafics are primarily augite.
- fr pyrite
- weak carbonate (calcite)
- massive
- competent.
- felsics: mafics \approx 40:60.

Oct 22, 1980

Note: 2+50W, 6+00N

- waste dump below old workings/adit.
- rock is primarily dioritic with some pieces extremely silicified
- all are mineralized to a certain extent with pyrite and chalcopyrite (oxidizing to bornite) stringers and veins.
- good place to climb around on in snow if you want to break your fucking neck !!!

Δ33 2+70W, 7+20N [BCS13998]

- fine grained massive dark green mafic to intermediate (basaltic to andesitic) flow
- moderate carbonate alteration
- chloritic.

Oct 22/90

NOTE: 2+50W, 7+75N
- end of line

Line 1+50W

A34 1+50W, 6+75N

- power line and road
- end of line
- 30m beyond is o/c of same rock as BCS 13998

Note: 1+50W, 4+50N
- main road.

A35 1+53W, 2+75N [BCS 13999]

- orange brown weathered surface, dark grey green fresh surface.
- foliated
- carb altered serpentinite / 1/5 ft unit
- stockwork veining.

Oct 22/90

Line 2100W

A36 2100W, 2+45N

- road.

Note: 2100W, 4+75N road cut with serpentiniteNote: 2100W, 6+25N - end of line- fuck all outcrop, at least that
can be seen in the snow.Line 1100W

A37 1100W, 7+25N

- end of line

Note: 1100W, 6+65N
- power line and road.Note: 4+25N - 400N. Log ophiolite
gabbro or diorite
- green

3+75N - gully possible fault brg 130°

L1400W, 2100N

- subcrop of altered serpentinite
listwanite.

L1400W, 1420N road

Line 0400W

No 6 0400W, 6400N EOL
; 5478W Road.

A38 0400W 5430N BCS 14000

- semi massive, weakly foliated
dark green to black
serpentinite.

- strongly magnetic - undoubtedly
cause of mag anomaly at this
end of grid.

6

Oct. 22/90

Line 0+50W

Δ39

0+65W, 200N

BCS14101

- listwanite boulders and subcrop
- or, brn weathered surface with complete Qtz carb replacement on fresh surface giving white to buff colour.

190

①

Oct. 23/90

Atholstan Jackpot

1:2500 mapping

~~Point~~

Weather: Heavy fog

Line 0+50E

Δ40: 0+50E, B 0+00N

- waste dump beside road
- rock is listwanite, altered serp,
some f'spar porphyry.

N.B. 0+90E 2+00N

- no visible ore to this point
- will traverse over to
line 1+00E and head south.

Line 1+00E, 2+00N

N.B. 1+00E, 2+55b

- end of line
- will traverse back to
line 0+90E and close

Oct. 23/90

Line 0150E

Ni.B. 0150E, 21253
- end of line,

D41 0150E, 21005 (BCS14102)

- light grey green massive fine grained, very silicified possibly andesite flow??
- fr to 1% pyrite

D42 0145E, 11805 (BCS14103, 104)

BCS14103 - very strongly altered zone trending 028

- very rusty stained; strong ankeritic alteration + some fibrous serpentine (asbestos?)
ca. 0.5m wide.

- pyrite 20-30% to semi massive in areas
- some arsenopyrite

BCS14104 - host rock to above

sample and same as

BCS14102

- massive lt grey green fine grained strongly silicified

③

possibly
Pyroxenite
line 1450E

Oct. 23/90

D43 1440E, B BCS14105 mafic.

- dark green ~~fine to medium~~ grained intermediate flow diorite str (andesite) very similar to rock type at northern end of line 2100²¹⁰⁰ and at 2500
- occasional 1mm size feldspar phenocrysts in finer grained matrix
- c.f. BCS 13998
- weakly magnetic

D44 1465E, 0430N

- inclined ~~and~~ trending 106°
- listwanite over fault zone gouge.
- fault orientation $\approx 074/30$.

BCS 14106 Listwanite

BCS 14107 Fault gouge.

BCS14106 - massive, white, completely carbonate and silica altered listwanite

- almost looks like gvn.
- tr. pyrite.

④

Oct 23/90

BCS14107 - dark rusty
stained fault gouge.

N.B. 1750E, 2700N, traverse
over to L 2700E and
head south.

L 2700E

N.B. - heading south from
station 1750E, 2700N
- this is the beginning of
a trench \approx 25m long,
leading to a portal
bryg 260°

Δ 45 L 2700E, 1750N

- Portal Brg 266
- walls are altered serpentinite
- waste dump is mainly
listwanite

250 rd - 775

200 rd - 625

150 rd - 575

100 rd - 525

050 rd - 475

00 rd - 400