

clear sunny

20 Sept. 1976

Anomaly checking in the
Updown Creek area

Anomaly # 19/9/76-1 @ 6000'

show 2850 cps peak @
6000ft but only two
bkgd @ 6500ft. is a
grass covered pumice soil
mud with talus along
west edge of chute.

A soil-vegetation anomaly.
20/9/76-1 soil sample.

841230
Updown Creek
82M/7E

Carbonate lens, 40-50 feet x 700'
wide white (pink) lt br (wey pas)
marked surface, sucrosid to
granular sandy; outcrop along
east edge of soil zone that carries
gamma anomaly.

FP-76-45 of carbonate rock chip
FP-76-45 hand sample

Unmineralized Bkgd 300cps
Mineralized Carb. 600-700
w/ local spots 1000-1200

FP-76-46 magnetic bonded
carbonate layer reads 2100cps

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Anomaly #19/9/76 - 1 cont.

Interbedded and comparable to the banded bedding in the carbonate lens as magnetite layers up to 2 feet thick but mostly < 2" and extending 5-15 feet along strike. Give a higher percent than clean carbonate.

FP-76-46 rock chip

FP-76-46 hand specimen

Hostrock: bio-silicate grains w/ nepheline; small pyromorphite in place

Mac Millan's # 11

FP-76-47 nepheline syenite gneiss, not characteristic neph. w/x; located 1/2 mi SW of headwater of Updown Cr; in Map Unit 8; near #11 fluorite occurrence

FP-76-45
FP-76-46
FP-76-47
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FP-76-100

Sept 20/76

Sunday

Anomaly 19/9/76-1
At 6000', between
fiducial # ~~27~~ 28

- + narrow draw, soil anomaly across 75'
- on BGS-15L → B.G. of 800-1500 across this zone with max 2500 cps
- B.G. off of this zone 300 cps
- layer of light yellowish brown weathering, foliated carbonatite in draw (dolomite?), with minor pyroxenes & biotite
- Carbonatite → 1000-1400 cps
- 340°/55° W → foliation
- lineation 270°/60°

Soil Sample: L-20/9/76-1
Rich;

- Carbonatite → white on fresh

- 320 Pacific Rainproof
- equigranular 1-3 mm
 - Unit is 40-50' x 600'
 - smears of kyanite (?)
 - contains some layers of knotted biotite (?) schist 2-3" thick & magnetic
 - lineated smears of magnetite
 - Is this sedimentary (?) or magnetite sand & shale?
 - Rock sample magnetite: FP-76-32
 - Host rock syenite gneiss FP-76-33
-

FP-76-34 - Neph syenite gneiss

- ~ 1/2 mile s.w. headwater Updown Creek, by lakes
- B.G. 200 e.p.s
- 6400'

21 Sept. 1976

(1)

Plut & Homenda

ANOMALY CHECKING @ Updown Ck area

19/9/76 - 2 & 3 Anomalies

We thought when flying over this anomaly the cause was an obvious rusty red-brown band about 150' wide // to metasedimentary bedding. Groundcheck shows this rusty band is a pegmatite (magnetite) bio-gly-feldspar schist (gneiss) sample No FP-76-49. To the south of the rusty unit are neph. syenite gneiss, locally pegmatite, with wavy banding. The pegmatite vary in width from 2 cm to 25 cm, contain magnetite, nephelin, feldspar and honey colored zircon. They give counts up to 800 cps and seem to be the cause of these anomalies. Sample FP-76-46 is from a slightly radioactive pegmatite in the rusty unit. All the pegs are // to gneissosity.

19/9/76-2 & 3 cont.

(2)

Below, or north of the
vertically dipping rusty
band an intercalated
marble layers with grey-white
in dirty gneisses (of the dirty
arkosid sds). Background
is 200 cps in sds.

Phone Bondar-Clegg

Sept 21/76

Clear & warm

Upsdown Creek Area

Anomaly check
for 19/9/76 - 2, 3

Anomaly 19/9/76 - 2
~ 6000'

= Nepheline syenite gneiss,
pinkish grey weathering,
same color fresh surface

10-30% nepheline, 10%
pyroxenes, & biotite (usually not
together) 360% feldspar

- med. to coarse equigranular
but with texture variations
in a few layers

- full of pegmatite veins
(pink), from fraction of
inch to 1' thick; in places

lenticular & banding

- usually 1 vein per foot

- Pegmatite: feldspar 60%,
rephatite 40%, magnetite 1%,
reddish-brown euhedral sphere
(sphere up to 1" long &
magnetite up to 2" long)

General B.G. over syenite
with BGS-1st ~ 400-500
cps.

Pegmatite read up to
800 cps. at rock level.
(usually 600 cps)

- Mass effect of greis with
pegmatite → anomaly?

McMillan SA

- southerly side of spur,
≈ 7000, toe of glacier

- Marbles: white, banded,
in equigranular, coarse gr.,
dolomite, biotite rich
bands; some long crystals
2" long (narrow) → weak

acid f. g. z. → BG 150 cps

- below marble, conformable,
qtz-feld-biotite gneiss
& schist (rusty)
BG - 150 cps

→ > 100' thick