

670088

J.C. STEPHEN EXPLORATIONS LTD.

WEEKLY CAMP REPORT

PROJECT NX SYNDICATE CAMP NAME GAMMA
 SENTINEL MOUNTAIN
 (EAST OF PALMER LAKE)

NTS MAP SHEET 104N/6^W+5^E DATES AUG 21 TO 28th 1981

AIR PHOTOS ^{BC} 5676 209, 275 LAT. & LONG. 59° 28' N, 134° 30' W

SILT SAMPLE SERIES 81NXT12 to 16
~~81NXT 108 to 110~~
 81NXT 201 to 208

^{TALUS}
~~SOIL~~ SAMPLE SERIES 81NXGT27 to 51
 81NXGT 116 to 129
 81NXGT 503 to 515, 518, 519

ROCK SPECIMEN NUMBERS 28218B to 28223B
 25741C to 25745C
 27632C to 27635C

SOIL SAMPLES 81-NXG-117 to 118
 81-NXG-501, 502 516, 517, 520

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SENTINEL MOUNTAIN
"EAST OF PALMER LAKE"

CAMP GAMMA
AUGUST 27/81.

INTRODUCTION:

The target area consists of a ~~the~~ tightly closed in cirque immediately southwest of the Eldorado Creek area cirques. There is one main stream running the length of the cirque and draining into Palmer Lake. Towards the back of the cirque there is a small ridge running east-west dividing the cirque into two "semi-cirques", side by side, which have somewhat similar geology although there are certain differences to be described later. The geology of the area is quite similar to that of Eldorado Creek, consisting of sediments and mafic volcanics. The area contains an abundance of outcrop both in the cirque area and along the stream bank from just inside tree line and up.

Camp was established just inside tree line and all required facilities were present although level ground may be difficult to find. If work is done earlier in the season camp could possibly be set up higher in the cirque since at this time of year the stream is dry further up. The cold winds which were so prevalent at Eldorado Creek don't seem to exist here most likely because of the narrowness and therefore protectiveness of the cirque.

PROSPECTING & GEOLOGY:

The stream in this cirque as well as one each in adjoining valleys ~~to~~^{to} the north and south were silt sampled. Samples were readily obtainable although there was considerable difficulty in obtaining silts from smaller tributaries because of their size and low velocity.

There were approximately six talus lines run in the cirques and in the next cirque area immediately south. Samples were taken on contours and at 50 m intervals. In certain areas however, samples deviated from these restrictions due to a lack of fine talus and such areas are indicated on the geochemistry overlay and in field notes.

Fourteen rock chip samples were taken during the week. These are marked on airphoto overlays numbers BC 5676 209 and BC 5676 275.

The geology in this area is similar to that found at "Eldorado Creek". Note that the amphibolite in this report corresponds to the diabase of the Eldorado Creek Report and the greenstone corresponds to the volcanic greywacke.

Two new units were found in this area. A conglomerate with clasts ranging in size from pebbles to boulders is found in the south. The clasts are mostly limestone but also include chert. The abundant ~~of~~ limestone cobble in the creeks draining the map area probably originates from erosion of this conglomerate.

The second new unit is found to the north

of photo 209, on photo 275. It is a medium gray pyroclastic rock. Fragments range from crystal tuff to agglomerate. The rock is generally a medium gray agglomerate.

The most prevalent unit is number two; greenstone and derived amphibolite. As was found at Eldorado Creek, the amphibolite often has thin, barren looking qtz veins. Some of these were sampled and hopefully geochem results will be positive. If this is so then sampling of all these small quartz ~~zones~~ veins is suggested. The amphibolite often has small grey chert zones in it too.

The sediments include chert, argillite, siltstone, greywacke and the previously mentioned limestone-chert conglomerate. The chert ~~is~~ sometimes has jasper horizons and these have been indicated on the airphoto overlays.

Generally the area doesn't appear to have as many pyritized zones as seen at Eldorado Creek and "North of Eldorado Creek". No samples could be described as strongly mineralized. Most samples with sulphides are only weakly mineralized.

The cirque, being divided by a ridge, can actually be referred to as a north & south cirque. The south cirque doesn't reveal much outcrop and most of what is seen consists of fine-medium grained greenstone and becoming a low grade amphibolite towards the north. There was no visible mineralization in the rocks of this cirque and only minor free quartz was found (sample N° 25743c).

There is a small area between this cirque and the

"limestone & conglomerate" outcrop, of abundant serpentinite talus and small boulders. In this area there are also large boulders of an intrusive material, possibly peridotite. These facts may point to a small intrusive body being present although no outcrop was seen.

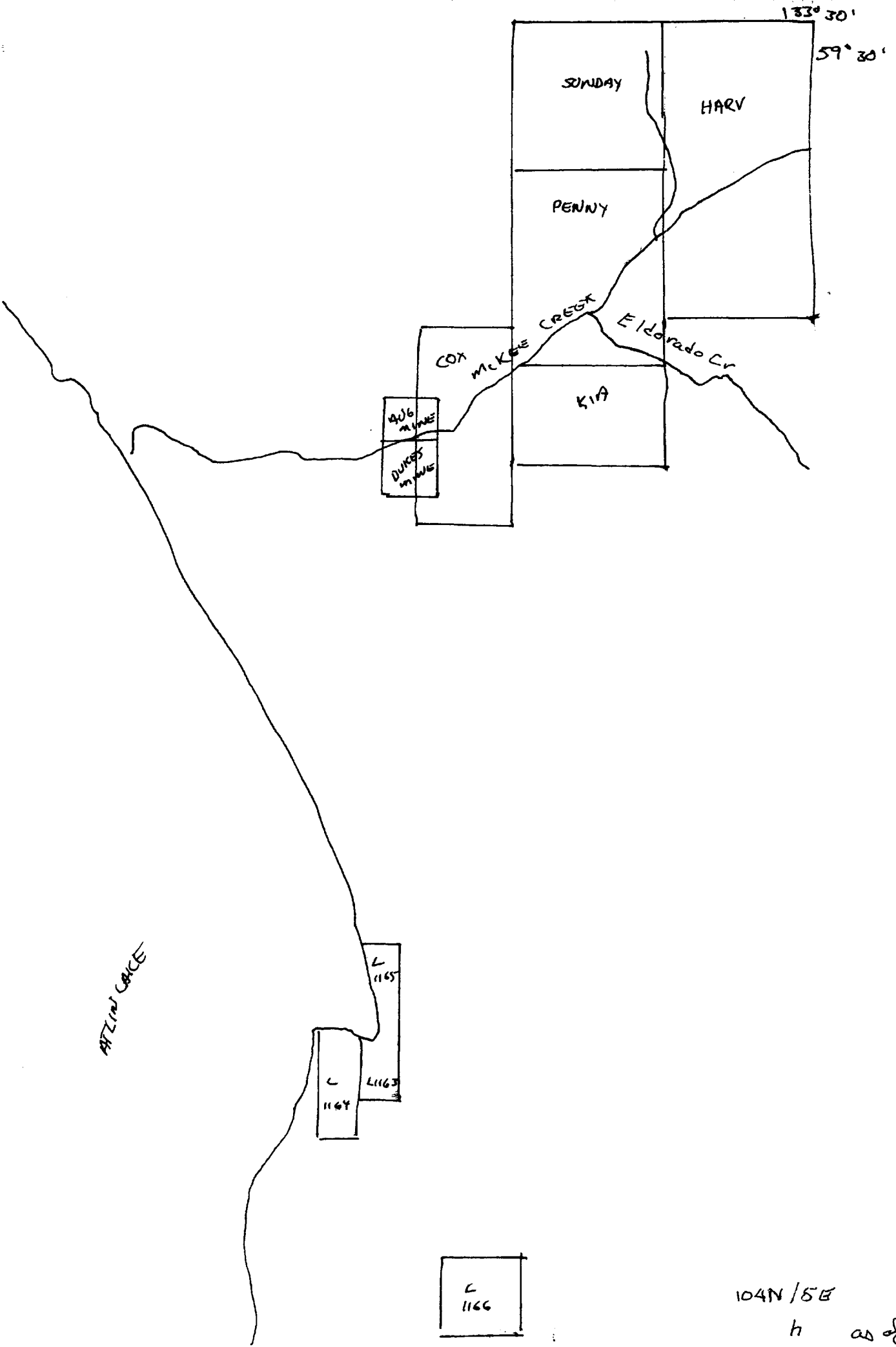
The north cirque starts at the southern end consisting of chert, ranging from a purple-brown to a pale green, and being slightly siliceous. Further north the rock becomes volcanic with constant variations from a fine grained greenstone to amphibolite. This rock comprises most of the cirque area and shows no visible mineralization. There are also three to four small areas of either talus or outcrop of jasper. These are indicated on the airphoto overlay. The jasper in these areas contains minor quartz veining but again no visible mineralization. In some areas these jasper zones are flanked by small zones of a grey siliceous chert.

There is a fair amount of exposed geology along the stream bank, most of which is amphibolite and minor chert and limestone. In a few areas the amphibolite becomes somewhat serpentinitized. There is minor disseminated mineralization in these rocks and in future more attention might be focused in this area (sample N^os. 27632, 27634 & 27635).

Camp Gamma.

East of Palmer Lake

- 28218 B - Red chert breccia with grey to white qtz filling.
- 28219 B - Dark grey f.g. massive slightly magnetic
quartzitic? rock. Minor qtz
- 28220 B Dark grey - black v.f.g. cherty argillite, slightly
rusty. Minor qtz
- 28221 B White massive calcite, frog wall rock
- 28222 B Grey f.m.g. fairly massive micro feldspar
porphyry? with dioritic pyre + little calcite
veining. Fairly magnetic
- 28223 B 3" vuggy white qtz vein in light buff chert
Clear qtz crystal terminations.
- 27632 c Similar to 28219 B
- 633 c Grey black cherty sed, minor py, rusty.
- 634 c Dark grey green volcanic sandstone? minor pyre
little calcite veining
- 635 c Dark grey f.g. conchoidal fract. basalt. - little
fine sulphides.
- 25741 c White qtz veining cutting grey red chert
- 742 c Light grey siliceous chert, fract, slightly rusty.
- 743 c White quartz vein - ~~is~~ epidote green rock remnants.
- 744 c Small vuggy white qtz vein cutting dark red cherty sed.
- ? 45 c Vuggy white qtz.



104 W 6W
5
ad of Aug 20

133°15'

59°30'

