

672681

**J.C. STEPHEN
EXPLORATIONS LTD.**

WEEKLY CAMP REPORT

PROJECT NEWEX CAMP NAME ECHO 3 - SUNDAY PEAK

NTS MAP SHEET 104 M16E/9E DATES JUNE 18-22, 1982

AIR PHOTOS BC 5686 #150 + #226 LAT. & LONG. 59°45'N 134°08'W

SILT SAMPLE SERIES 82NXV2 - 82NXV9

SOIL SAMPLE SERIES 82NXE119 - 82NXE148

ROCK SPECIMEN NUMBERS 8062A- 80626

GEOLOGY

ROCK UNITS

UNIT 1 - VOLCANICS (Specimens HA82-3-1 and HA82-3-11)

[UNIT 4a of Christie (1959)]

This unit covers many different rock types of volcanic origin, including both flow and volcanoclastic rocks (eg HA82-3-11 is from a well-developed agglomerate). Most are andesitic although some dacites and basalts are present. No rhyolites were found. The volcanics are fresh in appearance, although commonly chloritized, epidotized and hematized. Carbonate stringers are common in the volcanics south of camp and locally drusy quartz veinlets brecciate the volcanics (in the same area). (Samples 80624 & 80626)

UNIT 2 - GREYWACKE (Specimens HA82-3-2)

[LABERGE]

Greywacke lies to the south of the volcanics, probably conformably overlying them. Except for fifty meters of conglomerate and mixed-up sediments at their base, the ^{unit} greywacke is uniformly greywacke. The color varies from green to grey to cream, and ~~parts~~ feldspar content is variable, but otherwise the greywacke is massive, with poor bedding. Nowhere are sulphides visible and except for a few rusty spots, there is no alteration evident.

UNIT 3 - NORITE (Specimens HA82-3-5 & HA82-3-8)

The norite is composed mainly of orthopyroxene (and may be a peridotite). It is equigranular and medium-grained; it is assumed to form a fifty to hundred meter thick sill near the contact of the greywacke and volcanics. Near the main body of granodiorite it is altered to a fine-grained black rock with knots of magnetite and minor serpentine and is sheared. (see specimen HA82-3-5). The norite is resistant to erosion and weathers to a creamy-brown.

UNIT 4 - GRANODIORITE

Three ~~so~~ phases of granodiorite can be recognized. They have not been separated on the map (but perhaps should have been).

a) Feldspar porphyry (Specimens HAB2-3-6 ; HAB2-3-9) ^{← HAB2-3-3?}

Feldspar phenocrysts, up to 5mm long, form 30% of the rock, ^{separated by} with a dark matrix. The feldspar porphyry is ~~the~~ most commonly found in dikes but also occurs near the granodiorite contact.

b) Coarse granodiorite (Specimens HAB2-3-4)

Coarse granodiorite, composed of medium-grained (3mm), equigranular feldspars and biotite (no quartz) is common in the ~~weste~~ eastern part of the southern granodiorite exposure and the western part of the northern exposure. It is never found in dikes but can occur at the contact with its intruded rock. It weathers into big angular blocks.

c) Fine granodiorite (Specimen HAB2-3-10)

The fine granodiorite is also equigranular but finer (1mm) than the coarse granodiorite, ~~and~~ of the same composition. It occurs ~~in~~ in the western part of the southern exposure and in dikes (notably flanking the norite sill (Specimen HAB2-3-7)).

Contacts between granodiorite and their intruded rocks are sharp, with no chilling or alteration of the granodiorite. With the exception of the norite ~~and possibly~~ ~~of~~ the intruded rocks are also unaltered near the contact. No foliation or xenoliths were observed.

STRUCTURE

All beds strike 140° - 145° . Too few measurements were taken to determine whether the anticline shown on Christie's map is justified.

No faulting was observed.

ECONOMIC POTENTIAL

The granodiorite is very dead-looking, as is the greywacke, as is the intrusive contact wherever observed.

The volcanics are slightly more interesting, particularly in the region of carbonate stringers and drusy quartz. However, the drusy quartz is ~~very~~ limited in its extent. Soil samples taken below the volcanics should pick up other areas of drusy quartz, if they exist and if they are gold or arsenic bearing.

~~Note the~~

CAMP LOCATION

Anywhere above treeline on Sunday Peak is subject to strong winds. (and fuel shortage). Water supply is fine (as long as there is snow). Helicopter accessibility is satisfactory.

MISCELLANEOUS

Soil sample quality was poor as soil development is negligible above the treeline. There is no talus to sample.

No evidence of prospecting was encountered.

ANALYTICAL REQUEST SHEET

CAMP NAME & NUMBER ECHO / CAMP 03 DATE JUNE 22
SUNDAY PEAK

SAMPLE NUMBER SERIES

ELEMENTS REQUESTED

SOIL : 82 - NX - E - 119 → 82 - NX - E - 148

Au , As

SILT : 82 - NX - V - 2 → 82 - NX - V - 9

Au , As

ECHO / SUNDAY PEAK RECONNAISSANCE .
NUMBER SOIL SAMPLES = 30
NUMBER SILT SAMPLES = 8

SAMPLER ECHO

PROJECT SUNDAY PEAK

DATE JUNE 21/82

NTS

LINE

AIR PHOTO NO.

SAMPLE NO.	LOCATION	Depth	Horiz	DESCRIPTION				SLOPE	VEG.	ADDITIONAL OBSERVATIONS OR REMARKS	ASSAYS			
				Colour	Part Size	% ORG.	Ph				Au	As		
82-NX-	E-119	30cm	C	Rd-Br	sand-gravel	5		gentle	grass	Rocky sample - Camp site (0+00)	410	10		
	E-120	30cm	C	Rd-Br	sand-gravel	5		gentle	grass	" - 2+00 - wet soil.	410	7		
	E-121	30cm	C	Rd-Br	sand-gravel	5		mod	grass	" - 4+00 - past major ck (P.N)	410	10		
	E-122	35cm	C	Rd-Br	sand-gravel	5		mod	grass	" - 6+00 - Wet soil.	410	7		
	E-123	30cm	C	Rd-Br	sand-gravel	5		mod	grass	" - 8+00 - Wet soil	410	11		
	E-124	30cm	C	Br	sand	10		mod	grass	" - 10+00 - 200 m below crest - Canyon CK.	410	15		
	E-125	25cm	B	Br	sand	5		gentle	grass	East bank - 200 m below major E trib.	410	16		
	E-126	25cm	B	RdBr	sand	10		mod	grass	West bank - " " - slightly rocky	410	14		
	E-127	25cm	B	Rd Br	sand	5		gentle	grass	Canyon - tree line - 0+00 Rocky sample	410	10		
	E-128	25cm	C	Rd Br	sand	5		mod	grass	- 2+00	410	7		
	E-129	25cm	C	Rd Br	sand	5		mod	grass	- 4+00 - @ small gully	10	7		
	E-130	25cm	C	Rd Br	gravel-sand	15		mod	grass	Rocky sample - 6+00 @ small gully	410	6		
	E-131	20cm	B	Br	silt-sand	10		mod	spruce	- 8+00 Frozen ground.	10	7		
	E-132	25cm	C	Rd Br	sand-gravel	5		mod	grass	Rocky sample - 10+00.	410	6		
	E-133	30cm	B ⁺ C	Rd Br	sand	5		gentle	spruce	- 12+00	410	6		
	E-134	25cm	B	Rd Br	sand-gravel	10		mod	spruce	Rocky sample - 14+00.	410	5		
	E-135	25cm	B	Br	sand	10		Mod	Fir	- 16+00.	410	9		
	E-136	25cm	B ⁺ C	RdBr	sand-gravel	10		Mod	Fir	Rocky sample - 18+00 - CK. F E	20	6		

