

672687

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

WEEKLY CAMP REPORT

PROJECT NEWEX CAMP NAME ECHO 10 - RUPERT CR.

NTS MAP SHEET 104M9E DATES JULY 26 - AUGUST 2, 1982

AIR PHOTOS BC 5677 N^o 046, 048, 088, 090 LAT. & LONG. 59° 33' N 134° 09' W

SILT SAMPLE SERIES NONE TAKEN

SOIL SAMPLE SERIES 82NXE-214 to 82NXE-238

TALUS SAMPLE SERIES 82NXET-128 to 82NXET-156

ROCK SPECIMEN NUMBERS 73710 to 73711

ECHO 10 - RUPERT CREEK

GEOLOGY

ROCK UNITS

UNIT 1 - LABERGE SEDIMENTS (SPEC. HAB2-10-2, 10-9, 10-11)

The Laberge sediments include greywacke, siltstone, argillite and conglomerate in this area. Greywacke, the most abundant, is moderately fine-grained, granular, varies in color from blue-gray to grey to brown to green and commonly weathers to a light orange, rough-surfaced block. (Spec HAB2-10-2). Calcite (with or without quartz or pyrite) stringers are locally common. In the area around the two cirques immediately south of camp, the greywacke is altered. This alteration varies from quartz-epidiorite(?) replacement along fractures in otherwise unaltered greywacke (Spec HAB2-10-2) to extensive quartz-diorite(?) - chlorite(?) - biotite(?) replacement of the greywacke (Spec HAB2-10-10). Minor galena was found in one boulder of altered greywacke (73711). Vuggy, extremely vuggy, limonitic quartz vein an (Spec. 73710) or quartz-stringered greywacke float also occurs in this area. Specimen HAB2-10-1 is quartz-stringered greywacke float with minor galena.

Black, very fine-grained, usually rusty argillite commonly forms thin ^{or more rarely} (but also thick) interbeds with the greywacke. The siltstone (which may just be non-pyritic argillite) is also black and ^{or gray} fine-grained, but commonly color-banded (Spec. HAB2-10-9). Conglomerate is rare, but a few beds of rounded pebbles in a greywacke-matrix occur between greywacke beds in the cirque east of camp (Spec. HAB2-10-11).

The Laberge sediments are folded in broad open folds about a horizontal fold axis which strikes about 140°. Several anticlines and synclines must be present. A small reverse fault is apparent in the cirque face 3100 m south-east of camp.

UNIT 2 - CONGLOMERATES AND ~~THE~~ FELSIC TUFFS. (Spec. HAB2-10-3, 10-8)

The flat-lying 'volcanics' (Christie's UNIT 8 and Arken's Stoko-Unit 14) consist entirely of sedimentary conglomerates grading upwards to felsic lapilli tuff. No volcanic flows are present in out-crop. The conglomerates typically are composed of heterogeneous, well-rounded pebbles and boulders in a grey, sandy matrix. They are poorly sorted or stratified, but may be well-bedded with coarse, grey sandstones. Some carbonized plant

fragments occur. Generally the clast size decreases upward and the matrix becomes whiter, more silicious and generally more 'volcanic-looking'. (Spec. HAB2-10-8).

The uppermost beds are felsic tuffs

The surface on which the conglomerates were deposited must have had a relief similar to that of the present terrain, as conglomerate can be found in the creek valleys and greywacke on the hill-tops. ~~This~~

UNIT 3 - ~~BASIC~~ VOLCANICLASTICS (Spec. HAB2-10-4, 10-5)

This unit forms a skin on a south-facing slope south of camp, and is probably a variation of unit 2. The two main rock types are agglomerate and argillite-crystal tuff. The agglomerate (Spec HAB2-10-5) is composed of subrounded volcanic fragments, of a variety of compositions, in a soft, dark purple to dark green matrix. The other is black, very fine grained and hard, resembling an argillite, but contains a few sanidine phenocrysts and may be a crystal tuff. Both weather black and form craggy outcrops

UNIT 4 - FELSIC DIKES (Spec. HAB2-10-7)

Felsic dikes, mainly porphyritic ^{but} and of a wide variety of compositions and appearances, are very common. ^{All} Most of the felsic talus and float appears to be derived from these dikes. Feldspar, quartz and hornblende phenocrysts are common; matrices vary from white to light grey in color and are generally hard. The talus is platy (fissile at dike edges or in small dikes) and weathers white or buff (due to minor limonite).

There is no silicification or alteration in this unit.

Basic dikes (Spec. HAB2-10-6) are rare.

NOTE: To avoid confusion, this unit has been marked on the air photos only where the dikes form the entire outcrop.

STRUCTURE§

Northerly-trending valleys 2400m and 700m west of camp may follow faults. However, both are covered by glacial drift and may be glacial features. The supposed southern continuation of the western one (ie the gully 5000m SW of camp) is cut entirely through glacial drift and cannot be related to ~~the~~ bedrock structure

ECONOMIC POTENTIAL

The ~~silicification~~ silicified greywacke and the vuggy quartz veining found in float are encouraging, especially with galena present. However, this float is not common, and is confined to a fairly small area. The abundance of felsic dikes in this area and the vuggy nature of the quartz veining suggests that this may be the volcanic vent.

There is no silicification or alteration of any of the volcanic rocks and we see no economic potential in them.

MISCELLANEOUS

1. Our campsite is in a nice location for drinking water, helicopter access and firewood. One of the many cirque lakes would provide better access to whatever rock was of interest.
2. We saw no signs of prospecting, except two stone cairns on the hill 5km east of camp.
3. Walking is very easy, as the ground is fairly flat and the bush minimal.

NTS 104M9E

SAMPLER ECHO 10 - RUPERT Ck.

PROJECT NEWEX

LINE

DATE JULY 26 - AUG 2, 1982

AIR PHOTO NO. BC 5677 # 090

SAMPLE NO.	LOCATION	Depth	Horiz	DESCRIPTION				SLOPE	VEG.	ADDITIONAL OBSERVATIONS OR REMARKS	ASSAYS			
				Colour	Part Size	% ORG.	Ph				Au	As	Ag	Pb
B2NXET-128	Cirques			Br		5		Mod		Greywacke w trachyte dykes	<10	110	0.9	390
129	South-			Gr Br		5		Inactive		Altered greywacke	<10	65	0.6	313
130	east			Br		<1		Mod		Greywacke w trachyte dykes.	<10	69	0.1	126
131	of			Gr Br		<1		Active		Greywacke + trachyte	10	120	0.1	310
132	camp			Br		<1		Mod		Greywacke	10	125	0.1	93
133				Br		<1		Active		Greywacke + trachyte	50	335	0.1	198
134				Br		2		Mod		Greywacke + argillite sliderock	<10	39	0.1	41
135				Rd Br		2		Mod		Greywacke	<10	23	0.1	13
136				Br		5		Inactive		Greywacke + trachyte	<10	29	0.2	33
137				Rd Br		2		Mod		Greywacke + trachyte.	<10	33	0.1	28
138				Gr Br		<1		Inactive		Trachyte	<10	45	0.1	73
139				Rd Br		2		Mod		Trachyte	20	51	0.1	67
140				Yel Br		2		Mod		Trachyte + greywacke	10	33	0.1	30
141				Br		<1		Active		Trachyte + greywacke	<10	25	0.1	24
142				Rd Br		2		Mod		Trachyte + greywacke	<10	45	0.1	45
143				Br		<1		Active		Trachyte + greywacke + argillite	<10	90	0.1	350
144				Br		<1		Mod		Greywacke + trachyte + argillite	<10	94	0.2	119
145				Br		<1		Active		Trachyte + greywacke + argillite	<10	27	0.1	41
146				Br		2		Mod		Trachyte	<10	36	0.5	68
147				Gr Br		<1		Active			40	15	0.1	20

NTS 104M9E

SAMPLER ECHO 10 - RUPERT CK

LINE

DATE JULY 26 - AUG 2, 1982

PROJECT NEWEX

AIR PHOTO NO. BC 5677 # 48, 88, 90, 46

SAMPLE NO.	LOCATION	Depth cm	Horiz	DESCRIPTION				SLOPE	VEG.	ADDITIONAL OBSERVATIONS OR REMARKS	ASSAYS			
				Colour	Part Size	% ORG.	Ph				Au	As	Ag	Pb
82NXE 214	#88	20	B	YelBr	Silt	10		Level	Brush	All probably on glacial till. Taken to check inferred northerly fault.	<10	16	0.1	13
215	↑	20	B	YelBr	silt	5		↑	Fir		<10	14	0.1	13
216	↓	20	A+B	Br	silt	10		↓	Grass		<10	12	0.1	15
217	↓	20	A+B	Br	silt	10		↓	Grass		10	15	0.1	19
218	#88	15	B	RdBr	silt	5		Level	Grass/fir	<10	12	0.1	11	
219	#90	20	B	RdBr	silt	5		Mod	Grass/bushes	Along line of talus samples; cirques south of camp.	10	22	0.1	25
220	#90	20	B	YelBr	silt	5		Mod	Brush		<10	30	0.1	26
221	#90	20	A+C	dk Br	silt	30		gentle	grass.	* High organic content.	<10	9	0.1	10
222	#046	20	B	YelBr	sand/clay	5		Mod	grass	82NXE-222 to -230 form a line of samples south of the cirques.	10	15	0.1	16
223	↑	25	B	Br	silt	10		gentle	grass		<10	11	0.1	11
224	↑	20	B	YelBr	silt/gr.	5		mod	grass		10	9	0.1	8
225	↑	25	B	Rd Br	silt	5		mod	grass		<10	10	0.1	15
226	↑	20	B	Br	silt/gravel	5		mod	grass		10	9	0.1	11
227	↑	20	B	Rd Br	silt	5		mod	grass		10	57	0.1	70
228	↑	20	B	YelBr	silt	2		mod	grass		<10	45	0.1	75
229	↑	20	B	Rd Br	silt	5		mod	grass		<10	19	0.1	20
230	↑	25	B	Rd Br	silt	5		mod	grass		20	22	0.1	34
231	↑	25	B	Rd Br	silt	2		mod	grass		10	43	0.1	51
232	↓	30	A+C	Br	gr/silt	5		mod	grass		20	24	0.1	36
233	#046	20	B	Br	silt	10		mod	grass		<10	14	0.1	18

