

JUNE 10/81

842492

FLYING WITH GARRY DICK IN SE
CORNER OF 104K PLANNING TRACS.

WE DECIDED THAT CHECHIDLA
RANGE AND CHEJA RANGE ARE TOO
RUGGED AND REMOTE FOR ANY FURTHER
WORK. I WILL CONCENTRATE IN EXAM-
INING GOSSANS IN THE TRIANGLE OF
CACHE CREEK ROCKS SOUTH-EAST OF
TATSAMENIE LAKE. ALSO I WILL
LOOK AT QUARTZ CARBONATE ROCKS TO
THE IMMEDIATE NORTH-WEST OF TAT-
SAMENIE LAKE.

PROBABLY THE BEST PLAN IS TO SAMPLE
THE HELL OUT OF THE GOSSANS AND
SEE WHICH ONES "KICK". GOSSANS IN
REGION OF FAVORABLE STRUCTURES
SHOULD GET HIGH PRIORITY.

PERHAPS A LATING SYSTEM CAN
BE DEvised UTILIZING FEATURES OF
GOLD DEPOSITS.

JUNE 12/81 K5-8 CLOUDS & WARM

AT JUNCTION OF SAMOTVA RIVER AND
MAJOR TRIBUTARY FLOWING TO EASTERN
HEADWATERS. G.S.C. COPPER SHOWING
IS ALONG RIDGE TO SOUTH WEST
NEAR FROZEN LAKE.

KST1-43 - QUICK GRAB SAMPLE OF
RUSTY MATERIAL ALONG RIDGE TOP.
LOOKS LIKE BRECCIATED MICROCRYSTAL-
LINE QUARTZ (OBVIOUSLY REPLACEMENT)

LET OFF DOWN BELOW ON TALUS
SLOPES BELOW BIG GOSSAN ZONE.
LOOKING AT FLOAT

(FLOAT) KST1-44 - COARSELY CRYSTALLINE
HEMATITE - VEINED QUARTZ. SAMPLE
HAS TWO DODECAHEDRONS? (WITH
YELLOW BROWN STREAK [SPHALERITE?])
PROBABLY SAMPLE IS FROM QTB VEIN

KST1-45 - RUSTY CARBONATE?
CHAALCEDONY BRECCIA. ~~AND~~ SILICI-
FIED CLASTS AND VEINS OF CHAL-
CEDONY STAND OUT IN RELIEF
AGAINST RECESSIVE CARBONATE.
(FLOAT) LITTLE FINE TO ROCK SO MAY
BE DOLOMITE FEW SPECKS OF
PYRITE WERE NOTED IN SOME
SAMPLES

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KST1-46 - EXTREMELY RUSTY

BOXWORK LIMONITE. SAMPLE IS
VERY LIGHT (PROBABLY BECAUSE OF
(FLOAT) ABUNDANT CAVITIES). NO SULPHIDES
WERE OBSERVED.

KST1-47 - RUSTY SILICIFIED CARB?

BRECCIA WITH OPEN SPACE INFILLINGS
OF BLACK (YELLOW STREAK) MANGANESE
OXIDES (WAD). THE WAD OCCURS AS
(FLOAT) STRINGERS A FEW MM ACROSS WHICH
CUT THROUGH THE ROCK AND ALSO
LINE THE WALLS OF OPEN CAVITIES.
A RAINBOW IREDESCENCE IS COMMON
ON SURFACES COATED WITH THE
OXIDE. ONE SAMPLE HAD A PINK
MINERAL WHICH MAY HAVE BEEN
RHODONITE.

HEMATITE OCCURS THROUGHOUT
ROCKS IN THE TALUS OFTEN FORMING
STOCKWORK STRINGERS CRISS-CROSSING
THE ROCKS AND OCCASIONALLY
LARGE VEINS UP TO "2" THICK WHICH
OFTEN SHOW ZONING. HEMATITE IS
ALSO COMMONLY ASSOCIATED WITH
THE WAD VEINED ROCKS. ONE
CAVITY HAD SMALL WHITE ARAGONITE
SPRAYS 1 CM LONG.

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KST1-48 - SAMPLE OF QUARTZ VEINS
AND ASSOCIATED SILICIFIED
(-) ENVELOPES IN WHAT APPEARS TO BE
META-SEDS. ROCKS LOOK LIKE THEY
WERE SLTSTONES AND PERHAPS ROBBON
CHERT. EVEN WHERE THERE IS NO
QUARTZ VEINING THE ROCKS LOOK
ALTERED. SOMETIMES THE QUARTZ
VEINS SWELL TO FORM POCKETS
SEVERAL METRES IN DIAMETER.
SOME OF THE "WAD" MATERIAL WAS
ALSO NOTICED ASSOCIATED WITH THE
QUARTZ VEINS [IN OUTCROP]

~~ADJACENT TO ONE OF THE QUARTZ
VEINS WAS A 19 CM ZONE OF
QTE AND A GREEN MINERAL. TOOK
ROCK CHIP SAMPLE (MINERAL MAY
BE SERICITE)~~

~~(O/C) RST1-103 - ROCK CHIP SAMPLE
OF GREEN MINERAL ON EDGE OF
QTE VEIN. [IN OUTCROP]~~

SAMPLE WAS NOT TAKEN BY
ROB LAZENBY SO CANCELLED
IT.

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KST1-49 - PYRITE-EPIDOTE -

SPECULARITE VEIN IN SHEARED
GREENSTONES. THE VEIN SEEMS

(FLOAT) TO HAVE A PYRITE-EPIDOTE
MARGIN AND A SPECULARITE -
SPARRY CALCITE CORE. THE VEIN
WAS ABOUT 3 CM WIDE. [FLOAT]

NOTE: MOST OF THE LITHOLOGIES
ON THIS HILL ARE HIGHLY FRACTURED
AND FORM EXTREMELY RUBBLY @/C.

ON TALUS SLOPES BELOW CLIFFS
MOST OF ROCK IS META-SED.
GREEN TO BLACK PHYLITES ARE
COMMON, AS WELL AS SOME MINOR
MARBLE HORIZONS. THE MARBLE IS
QUITE PURE AND IS COMPOSED OF
SPARRY CALCITE. OCCASIONAL
RUSTY QUARTZ FLOAT WAS NOTED,
PROBABLY FROM QUARTZ VEINS IN
THE PHYLITES.

KST1-50 - SMALL ROCK SAMPLE

(FLOAT) OF SPECULARITE - CHALCOPYRITE -
CALCITE (PROBABLY VEIN MATERIAL)
SAMPLE WAS RUSTY WEATHERING
FLOAT. BECAUSE SO SMALL I PUT
IT IN DIRT BAG. NO HAND SPEC.

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ATTITUDES OF BEDS IS VARIABLE
BUT THERE SEEMS TO BE A
GENERAL TREND STRIKING ALONG THE
CLIFF AND DIPPING ABOUT 30-45°
TO THE NORTH-WEST.

KST1-51 - RUSTY WEATHERING
MED. GREEN SILICEOUS TUFF? ROCK
LACKS ANY DISTINCT EVIDENCE PROVING
TUFF ORIGIN, BUT GENERAL CRYSTALLINE
TEXTURE SUGGESTS THAT IT WAS A
(FLOAT) TUFF. FINE-GRAINED DISSEMINATED
SULPHIDES UP TO 5% ARE PRESENT
SOME LOOK SILVERY GRAY AND MAY
NOT BE PYRITE (ARSENOPYRITE?)

KST1-52 - QUARTZ VEIN WITH
SILVER-GRAY MINERAL, HARDNESS
(FLOAT) ABOUT 5 (ARSENOPYRITE?) SMALL
SAMPLE IN DIRT BAG. NO HAND SPEC.

KST1-53 - BLEACHED SILICIFIED
(FLOAT) ROCK WITH POB OF PYRITE WEAT-
HERING TO LIMONITE.

KST1-54 - LIMONITE-CALCITE
(FLOAT) GOSSAN, VERY VUGGY WITH SPARRY
CALCITE X'TALS IN VUGS AND SOME
SPECKS OF PYRITE. ABUNDANT
CAVITIES.

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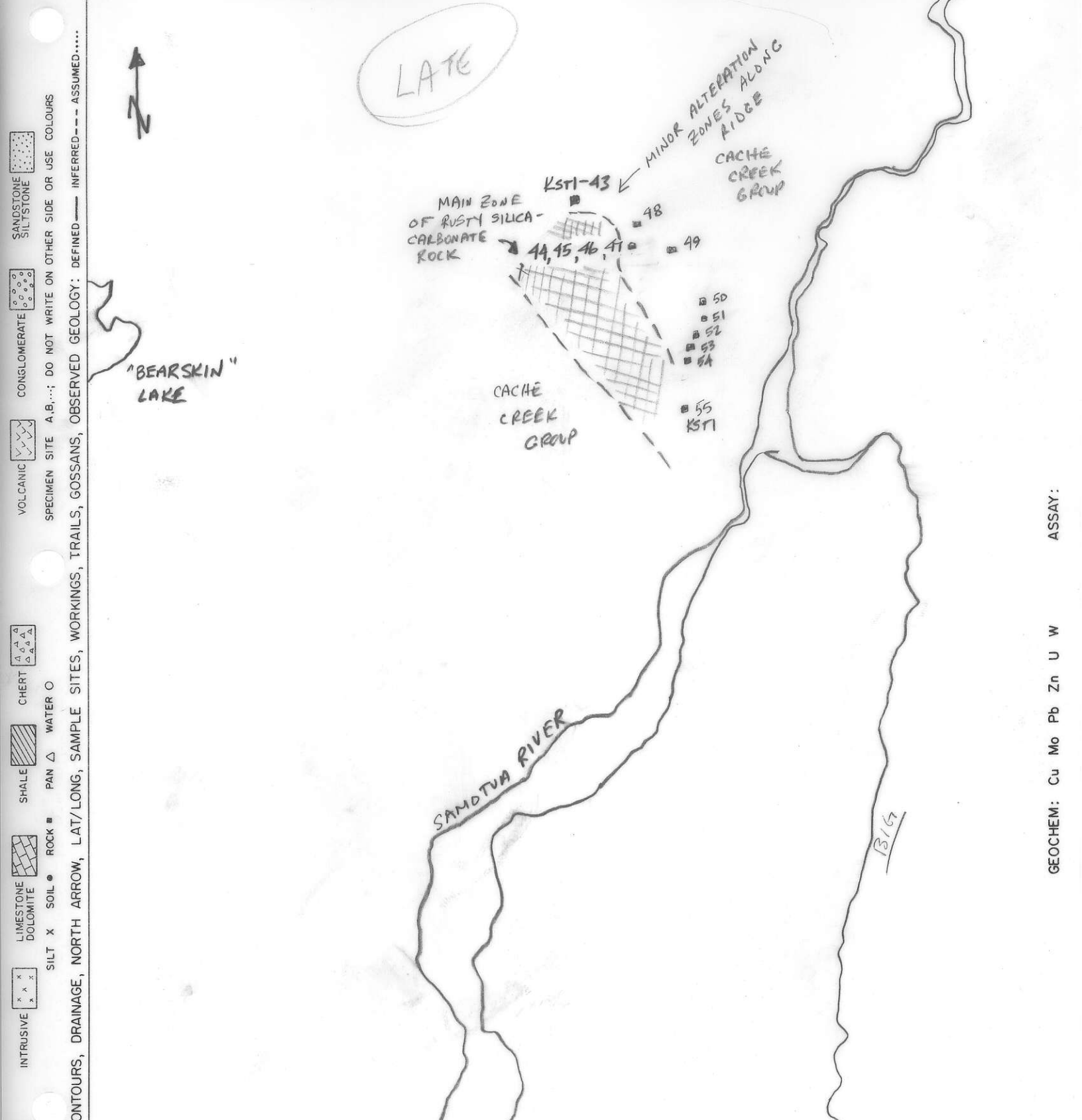
KST1-55 - CREAM COLOURED

MARBLE WITH BRIGHT RED FRACTURE
COATINGS (HEMATITE?) AND APPROX.

1% PYRITE DISSEMINATED THROUGHOUT.
LOOKS LIKE CARLIN ORE.

END OF TRAN.

Project TULSEQUAH	NTS 104 K	Scale 1" = 1/2 MILE	Page 1 of 1	Traverse KS-8
Sampler KEN SHANNON ROB LAZENBY	Location, Target (words) EAST OF BEARSKIN LAKE, AT JUNCTION OF SAMOTVA RIVER AND MAJOR TRIBUTARY.		Sample Nos KSTI-43-55	
Date JUNE 12/81	photo no. A11586-162		Cert. Nos	



- WSC-92999 T11 ATTITUDES (100/46 N)
- SANDSTONE SILTSTONE
- CONGLOMERATE
- VOLCANIC
- SPECIMEN SITE A,B,...; DO NOT WRITE ON OTHER SIDE OR USE COLOURS
- CHERT
- SHALE
- ROCK
- LIMESTONE DOLOMITE
- INTRUSIVE
- GOSSAN MINERALS
- PAW PAN
- WATER
- SILT
- SOIL

DON'T FORGET CONTOURS, DRAINAGE, NORTH ARROW, LAT/LONG, SAMPLE SITES, WORKINGS, TRAILS, GOSSANS, OBSERVED GEOLOGY: DEFINED — INFERRED --- ASSUMED.....

SUMMARY JUNE 12/81

K5-8

EXAMINED LARGE AREA OF GOSSAN SOUTH-EAST OF BEAR-SKIN LAKE AND ON CLIFFS ABOVE SAMOTUA RIVER. GOSSAN WAS LARGE AREA OF RUSTY SILICA-CARBONATE ALTERATION CUTTING THROUGH THE CACHE CREEK ROCKS WHICH WERE META-SED'S (MOSTLY PHYLITES), GREENSTONES AND MARBLE. THE SILICA-CARBONATE HAD A VARIETY OF TEXTURES INCLUDING BRECCIA, VUGGY, AND BANDED. SOME MINERALS OBSERVED INCLUDE ABUNDANT WAD (MANGANESE OXIDE), PYRITE, CHALCOPYRITE, ABUNDANT HEMATITE, SPHALERITE?, RHODONITE?, ARAGONITE, AND POSSIBLY ARSENOPIRITE.

THE SILICA-CARBONATE ALTERATION CUT ACROSS THE CACHE CREEK STRATIGRAPHY AND APPEARED UNAFFECTED BY CHANGES IN ROCK TYPE. THE ZONE LOOKED VERY FAVOURABLE FOR AN MINERALIZATION. IN SOME OF THE CACHE CREEK ROCKS AWAY FROM THE SILICA-CARBONATE ZONE (GREENSTONES), VEINS OF CALCITE, EPIDOTE, SPECULARITE AND PYRITE UP TO 3 CM WERE NOTED. PERHAPS THESE WERE PERIPHERAL VEINS TO THE MAIN ALTERATION ZONE. SOME OF THE MARGINAL VEINS HAD CHALCOPYRITE DISSEMINATIONS WHICH PERHAPS INDICATE A PORPHYRY DEPOSIT AT DEPTH.

THE G.S.C. LOCATED A CU SHOWING, 3 MILES TO THE SOUTH WEST ALONG THE SAME RIDGE.

THIS AREA SEEMS VERY FAVOURABLE AND I'M GOING TO CONTINUE WORK ALONG THE SOUTH-EAST CORNER OF THE MAP SHEET.