

LOG NO: <i>April 2/91</i>	RD.
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GEOLOGICAL AND GEOCHEMICAL ASSESSMENT
 REPORT ON
 SANTA MARINA GOLD LTD.'S
 WESTKIT PROJECT

SKEENA MINING DIVISION
 KITSULT RIVER AREA, NW BRITISH COLUMBIA

LATITUDE 55°42'N
 LONGITUDE 129°36'W

NTS 103P/12

MINING DIVISION BRANCH
 REPORT

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Bernard Dewonck, F.G.A.C.

March 25, 1991

OREQUEST



SUMMARY

Exploration was completed on the Westkit Project between September 14th and September 20th, 1990. The property consists of 4 contiguous claims comprising 74 units on the west side of the Kitsault River valley, between Evindsen Creek and the West Kitsault River, 45 km southeast of Stewart, B.C.

Work entailed reconnaissance mapping, prospecting, rock and silt sampling during which a total of 48 grab rock samples and 10 silt samples were collected.

The lithologies on the property include mudstones, siltstones, sandstone, intermediate tuffs, breccias, conglomerates volcanoclastics and mafic flows. These rocks form a conformable sequence of northwesterly plunging parallel anticlines. They are of Lower to Middle Jurassic age.

Similar rocks host the Dolly Varden, Northstar, Torbrit and Homestake silver-base metal deposits 5 km to the east. These deposits have been mined periodically since 1915 and have produced a total of 1.3 million tons of ore grading 485 g/t silver, 0.38% lead and 0.02% zinc.

The highest assay value obtained during the 1990 field program is 0.039 oz/ton gold from a small shear. Due to the lack of any significant geochemical anomaly, mineralized zone or structure no further work is recommended on the Westkit claims.

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Paul M. Brucciani, Geologist	
Brett LaPeare, Geologist	
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INTRODUCTION

This report, prepared by OreQuest Consultants Ltd. on behalf of Santa Marina Gold Ltd., summarizes exploration conducted by OreQuest during September of 1990 on the Westkit mineral claims, which consisted of reconnaissance mapping, rock and silt sampling.

PROPERTY DESCRIPTION

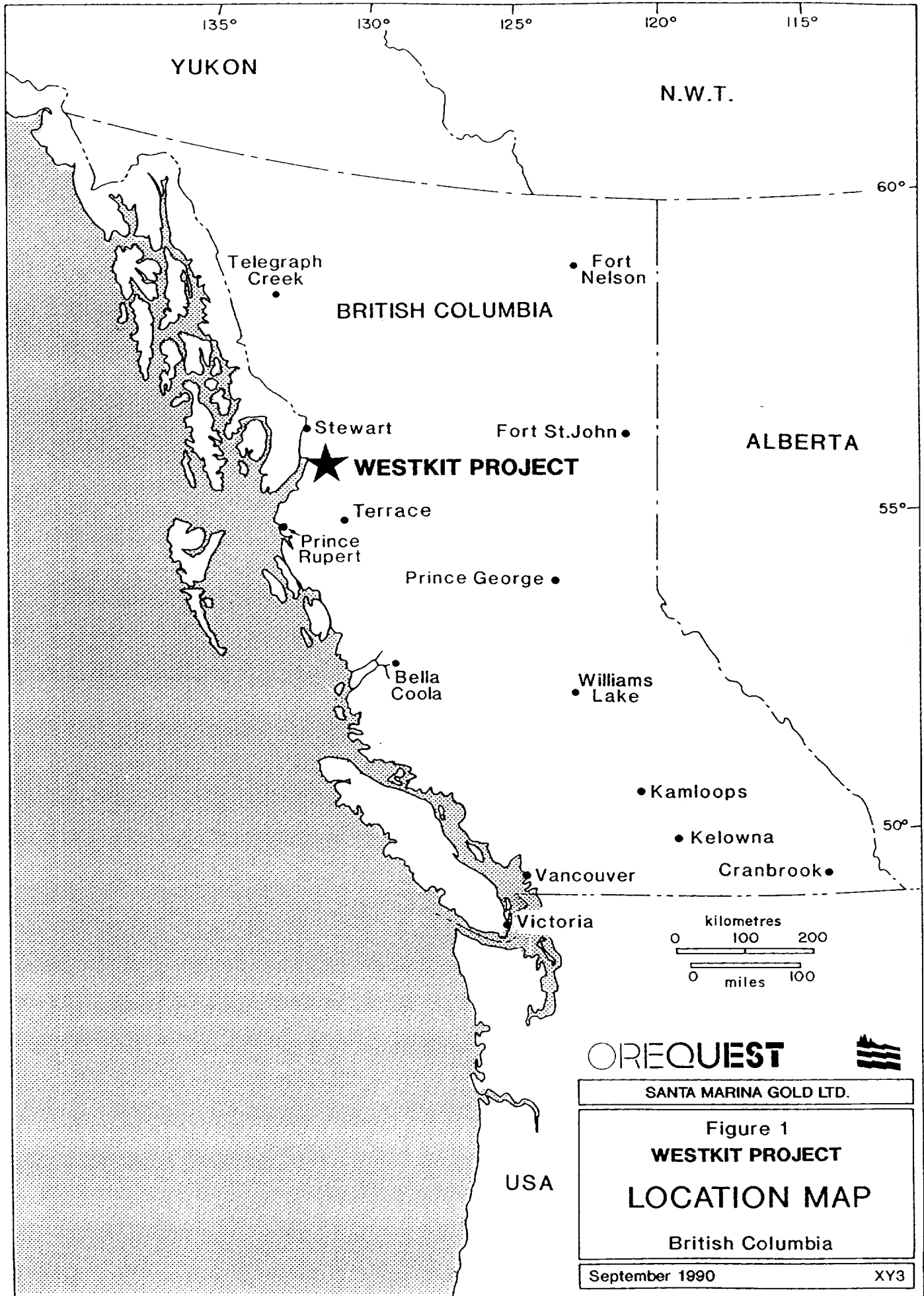
Location and Access

The property is located within the Boundary Mountain Range of the Coast Mountains, 20 km east of the Alaska-B.C. International Boundary, (Figure 1) on the western slope of the Kitsault River valley. The claims also lie 45 km southeast of Stewart and 30 km north of Kitsault and Alice Arm at the head of Alice Arm Inlet. The centre of the claims is located at a latitude of $55^{\circ}42'N$ and a longitude of $129^{\circ}38'W$.

Access to the property is via helicopter based in Stewart, from which flight time is approximately 30 minutes.

Claim Status

The Westkit property consists of 4 contiguous claims comprising 74 units (Figure 2) situated in the Skeena Mining Division and under option to Santa Marina Gold Ltd. They are listed in Table 1 as follows:



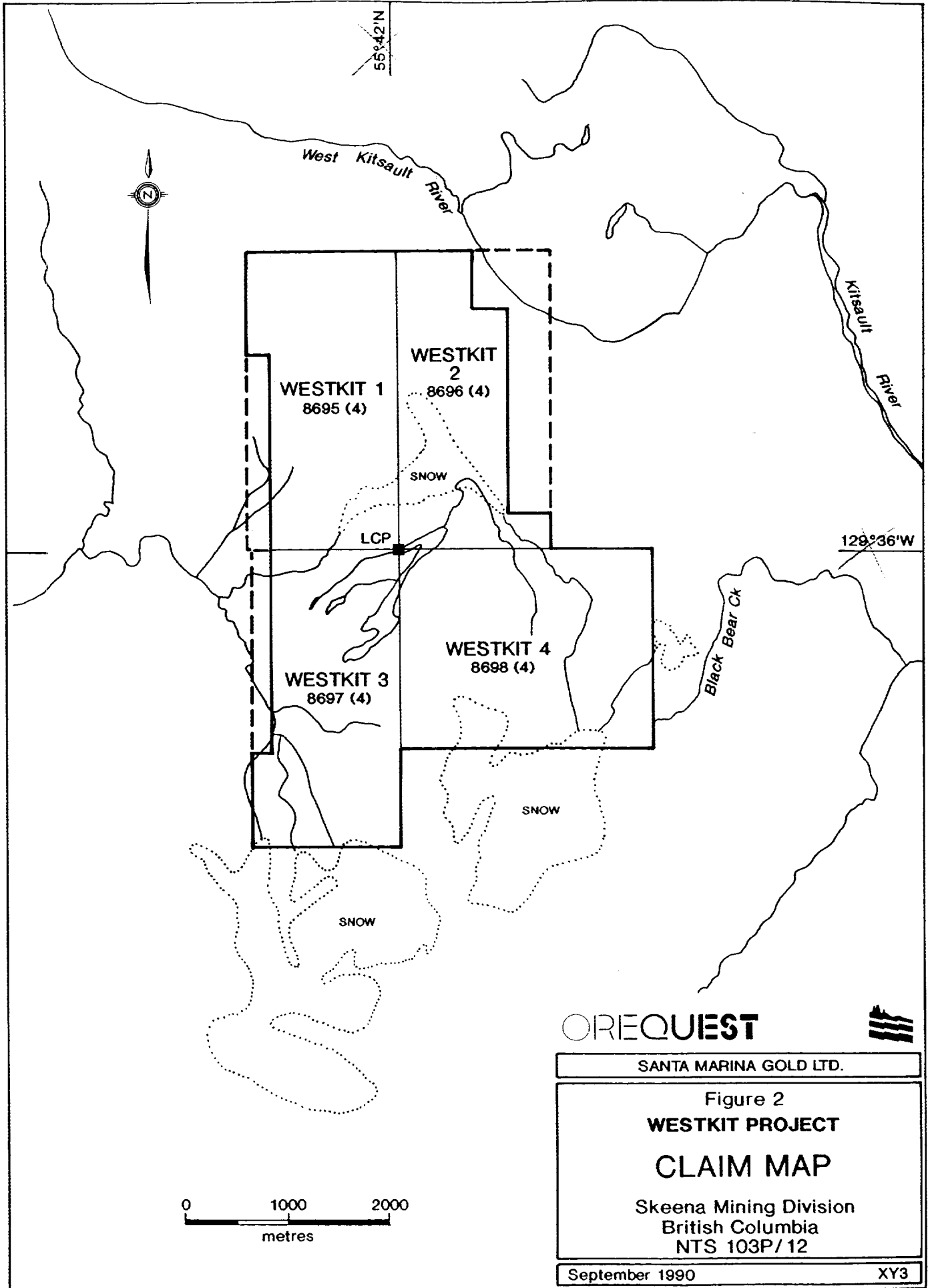


TABLE 1: Claim Information

<u>Claim Name</u>	<u>Record No.</u>	<u>No. of Units</u>	<u>Record Date</u>	<u>Expiry Date</u>
Westkit 1	8695	18	April 3/90	April 3/91
Westkit 2	8696	18	April 3/90	April 3/91
Westkit 3	8697	18	April 3/90	April 3/91
Westkit 4	8698	20	April 3/90	April 3/91

The owner of record is Lawrence Barry. The work described in this report, when filed for assessment, would extend the expiry date beyond 1991.

Physiography and Vegetation

The claims overlie typically glaciated mountainous terrain. Elevations range from 820 m (2700 ft) near the southwestern corner to 1700 m (5600 ft) at the summit of Mt. Klayduc.

Below 1000 m sub-alpine vegetation in the form of spruce, fir, hemlock, slide alder and devil's club is present. Above 1000 m alpine flora predominates. The highest elevations support only mosses and lichens.

HISTORY AND PREVIOUS WORK

Exploration started in the upper Kitsault valley in the early 1900's and by 1913 the Dolly Varden property was already staked, along with numerous other claims in the area. Exploration of the Dolly Varden property, located 5 km east of the Westkit claims, delineated a considerable tonnage of ore and a railway was constructed from Alice

Arm to the deposit. The Dolly Varden deposit was in production from 1919 to 1921. At the same time, several other prospects were explored but interest in the area dropped in 1921 when the price of silver declined. However, a mill to concentrate the ore was built in 1928 on the Torbrit property.

The area remained relatively calm from 1930 to 1946. In 1946, a company controlled by Mining Corporation of Canada acquired the Torbrit mine and started to build the road from Alice Arm up the valley. A new mill was constructed and production started in 1949. Two other prospects, the Galena and the Vanguard, located less than 5 km northeast of the subject claims, were explored in 1951.

The total amount of concentrates produced to the end of 1951 by the Dolly Varden, the Homestake, the North Star, and the Torbrit deposits was: 84 ounces of gold; 7,189,130 ounces of silver; 2,183,965 pounds of lead; 344,832 pounds of zinc; and 1,740 pounds of copper (Black, 1951).

At the present time, the Dolly Varden property includes the Dolly Varden Mine, the Torbrit Mine, the Wolf Mine, the North Star Mine, as well as the Red Point Prospect.

Until recently silver has been the focus of mining in the area, however, results from the 1989 diamond drilling program at the Dolly Varden suggest that mining in the past has been concentrated within

the silver rich zone of a volcanic exhalative formation. The emphasis of current exploration has expanded to include the search for massive sulphide deposits rich in zinc, lead, and silver with appreciable gold, copper and cadmium.

In 1985 the regional geology and mineral deposits of the general area were mapped by Dawson and Alldrick (1986). There is no recorded history of exploration on the Westkit property specifically.

REGIONAL GEOLOGY AND MINERALIZATION

The northwestern portion of British Columbia has undergone regional mapping by the Geological Survey of Canada over an extended period of time (Kerr, 1930, 1948; Hanson, 1935; GSC 1956, 1979; Anderson, 1984, 1989; Anderson and Thorkelson, 1990). On a more detailed basis, the geological framework from which current mapping is evolving was established by the British Columbia Ministry of Energy Mines and Petroleum Resources (Grove, 1986). Grove defined the Stewart Complex as an assemblage of volcanic and related sedimentary rocks, ranging in age from Upper Triassic to Upper Jurassic, bounded by the Coast Plutonic Complex to the west, the sedimentary Bowser Basin to the east, Alice Arm to the south and the Iskut River to the north. Included in the Complex were the Upper Triassic Takla Group, Lower Jurassic Unuk River and Betty Creek, Middle Jurassic Salmon River Formation and Upper Jurassic Nass Formation of the Hazelton Group.

In 1985 the BCMEMPR initiated an on-going regional mapping program by D. J. Alldrick and several co-workers, with the first work conducted in the Kitsault area (Alldrick et al, 1986). Mapping has extended more than 200 kilometres northwest, resulting in constantly evolving formation and age definition of rock units. In the Sulphurets Creek and Unuk River areas the Upper Triassic is referred to as the Stuhini Group, the Hazelton Group includes Unuk River, Betty Creek and the newly defined Mt. Dilworth Formations of Lower Jurassic Age and - on the open file maps for these areas (1988-4 and 1989-10 respectively)- the Middle Jurassic Salmon River Formation. On a more regional scale Alldrick (1989) has limited the Hazelton Group to the Unuk, Betty Creek and Mt. Dilworth Formations and suggested a correlation of the Salmon River Formation to rocks of the Spatzizi Group. The Ashman Formation, also Middle Jurassic, overlies the Salmon River and is part of the Bowser Group. Grove's Upper Jurassic Nass Formation no longer appears in the stratigraphic column.

In order of increasing age, lithologies of the Stewart Complex are described as follows:

1. Spatzizi Group (Middle Jurassic)
 - a) Salmon River Formation - thinly bedded alternating siltstones, mudstones and greywacke, and minor andesite pillow lavas and pillow breccias.
2. Hazelton Group (Lower to Middle Jurassic)
 - a) Mt. Dilworth Formation - intermediate to felsic pyroclastic rocks, including dust, ash, crystal and lithic tuffs, lapilli tuffs.
 - b) Betty Creek Formation - grey, green, locally maroon massive to bedded pyroclastic and sedimentary rocks, pillow lava.

c) Unuk River Formation - green and grey intermediate to mafic volcanoclastics and flows with local beds of fine grained immature sediments.

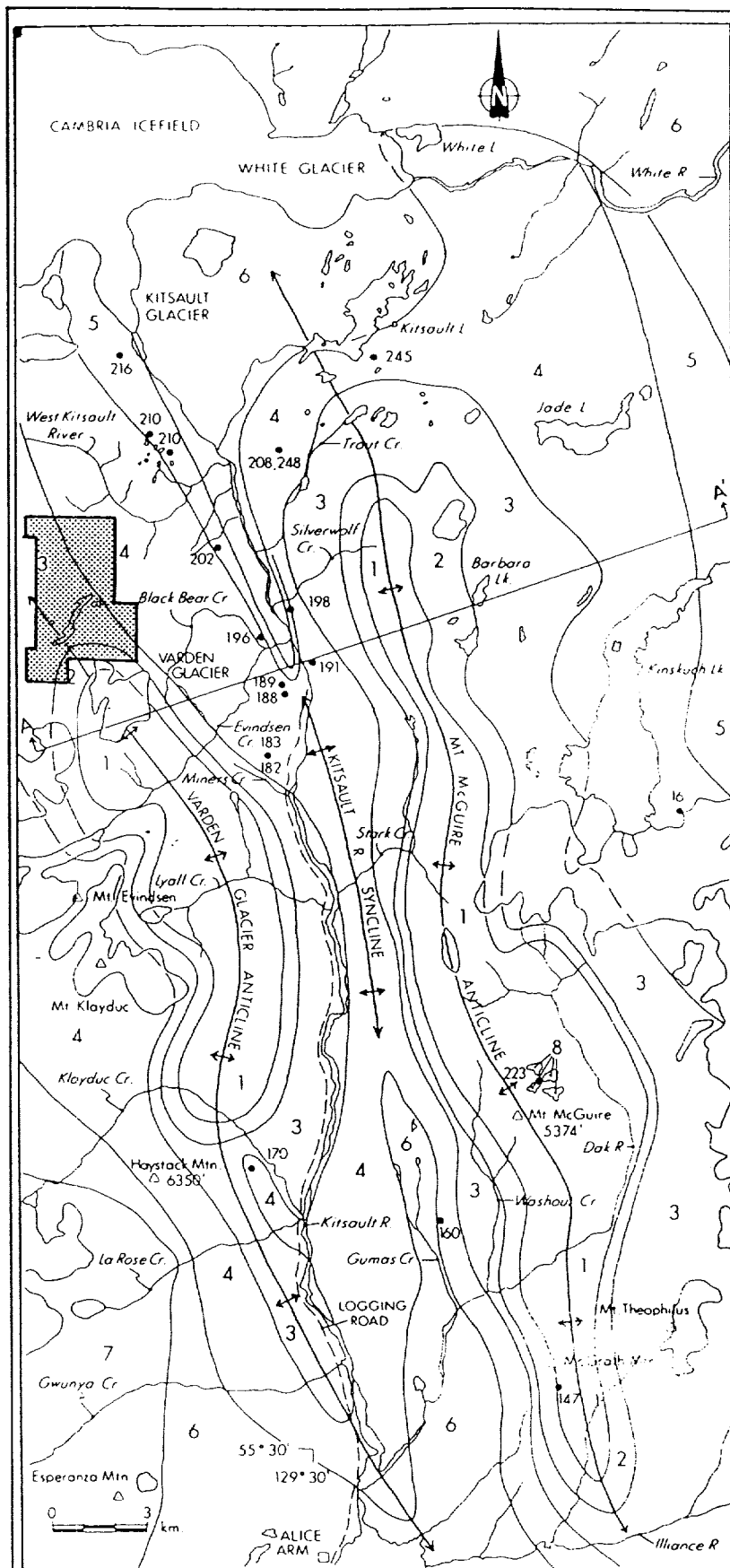
3. Stuhini Group (Upper Triassic)

Mixed sedimentary rocks interbedded with mafic to intermediate volcanic and volcanoclastic rocks.

The regional geology depicted in this report (Figure 3) is reproduced from Dawson and Alldrick's summary in Geological Fieldwork 1985 (Dawson and Alldrick, 1986). A more detailed geological map can be found as Open File 1986-2 (Alldrick et al, 1986). It should be noted that no formation designations appear on these maps since the nomenclature described above was published in later years.

The Bowser Lake Group, a large sedimentary basin, in part overlies the Stewart Complex to the east. Previous workers (Hansen, 1935 and Grove, 1971) have interpreted the Bowser Lake Group as a large successor sedimentary basin, consisting of marine and non-marine sediments with only minor volcanics, that extends over an area 160 km wide by 320 km long. The Bowser Lake Group has been unaffected by regional metamorphism, although numerous dykes and small plutons have caused minor metasomatism. Historically the Bowser Lake Group has proven uneconomic, with no significant discoveries associated with it.

The youngest rocks in the region are the Tertiary plutons of the Coast Plutonic Complex which forms the western contact of the Stewart Complex. Compositionally these plutons range from quartz monzonite and quartz diorite through to granodiorite and granite. They exhibit



MINERAL PROPERTIES	LEGEND COMMODITIES	MINFILE NUMBERS
KIT	Ag Pb	103P-245
GALENA (ACE TYLEE)	Ag Pb	103P-208, 248
WOLF	Ag Pb, Zn	103P-198
TORBRIT	Ag Pb, Zn	103P-191
NORTHSTAR	Ag Pb, Zn	103P-189
DOLLY VARDEN	Ag Pb, Zn	103P-188
LA ROSE	Ag Pb	103P-170
HOMESTAKE	Au, Cu	103P-216

INTRUSIVE ROCKS

TERTIARY

- 9 MINOR DYKES: MICRODIORITE (a), GRANODIORITE (b); LAMPORPHYRE (c)
- 8 AJAX INTRUSIONS: QUARTZ FELDSPAR PORPHYRITIC QUARTZ MONZONITE (a), BIOTITE QUARTZ MONZONITE (b), 55.1 Ma (K/Ar)
- 7 COAST PLUTONIC COMPLEX: QUARTZ MONZONITE (a), GRANODIORITE (b); 43-51 Ma (K/Ar)

INTRUSIVE CONTACT

VOLCANIC AND SEDIMENTARY ROCKS

MIDDLE TO UPPER JURASSIC

- 6 BASAL FOSSILIFEROUS WACKE (a); BLACK SILTSTONE AND WACKE (b); MINOR INTRAFORMATIONAL CONGLOMERATES AND LIMESTONE (c)

LOWER JURASSIC

- 5 GREEN AND MAROON VOLCANIC BRECCIA (a); EPICLASTIC CONGLOMERATE AND SEDIMENTS (b); LOCAL DACITIC FLOWS AND PYROCLASTICS (c)
- 4 FELDSPAR-HORNBLENDE PORPHYRITIC ANDESITIC PYROCLASTICS (a) AND FLOWS/SILLS (b); MINOR INTERBEDS OF LIMESTONE, SILTSTONE, SANDSTONE, CHERT, AND BARITE (c)
- 3 BASAL POLYMICITIC CONGLOMERATE, MINOR INTERBEDDED LIMESTONE, SILTSTONE, GRIT, SANDSTONE (a); SILTSTONE, ARGILLITE (b); VOLCANIC BRECCIA, MINOR INTERBEDDED SILTSTONE, SANDSTONE (c); INTERBEDDED SILTSTONE, SANDSTONE, AND PEBBLE CONGLOMERATE (MARKER HORIZON) (d)
- 2 AUGITE (OLIVINE) PORPHYRITIC BASALT FLOWS, PILLOWED FLOWS (a); AUGITE-FELDSPAR PORPHYRITIC BASALT PYROCLASTICS AND VOLCANIC BRECCIAs (b); EPICLASTIC CONGLOMERATE, MINOR INTERBEDDED SILTSTONE, ARGILLITE, AND LIMESTONE (c)
- 1 SILTSTONE, ARGILLITE, WACKE (a); RARE LIMESTONE (b);

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Figure 3
WESTKIT PROJECT
REGIONAL GEOLOGY

British Columbia
NTS 103P/12

a typical massive crowsfoot texture and usually are medium to coarse grained and porphyritic. Mafic minerals present are almost always hornblende \pm biotite.

Within the older volcanics regional structural features include a series of parallel anticlines and synclines with the fold axis striking north-south to northwest-southeast. Faults, photolineaments, small and large scale shears and fracturing are common throughout the area.

A number of epithermal and mesothermal precious metal deposits, massive sulphides, skarns and hydrothermal systems, as well as copper-gold porphyries have been found in northwestern British Columbia. The majority of these deposits are hosted by rocks of the Stewart Complex and often show a spatial relationship with Early Jurassic intrusions.

The principal deposits in the Stewart area are hosted by an assemblage of volcanics of Lower Jurassic age, forming a northwest trending belt. Three types of deposits have been found within this belt:

- 1) - Alkalic Copper-Gold Porphyry: High tonnage copper deposits containing significant amounts of gold (eg. Galore Creek and Copper Canyon deposits).

- 2) - Gold-Silver Vein and Stockwork Deposits: High grade veins are found in the Lower Jurassic Hazelton volcanics (e.g. Silbak-Premier Mine). This type of deposit has been the most productive in the area.

- 3) - Gold-Silver-Lead-Zinc Volcanic Exhalative Deposits: This type of deposit is found at Eskay Creek, within the upper sections of the Lower Jurassic volcanic-arc assemblage. The Dolly Varden Property, located 5 km east of the subject property, is believed to have potential for a similar type deposit as a result of interpretation of recent field mapping and diamond drilling.

The other types of mineralization are:

- 1) Silver-rich quartz-barite veins
- 2) Disseminated copper-gold mineralization

The silver-rich mineralization consists of mesothermal to epithermal veins deposited during folding within fractures and faults parallel to the axial plane of the fold. Historically exploration and development at Dolly Varden has been on this type of mineralization. Disseminated copper-gold mineralization includes the Homestake, Vanguard, Red Point and Red Bluff properties. The mineralization is localized along the upper contact of a feldspar and/or hornblende porphyritic flow or subvolcanic sill. Both types of mineralization

occur within andesitic pyroclastics of Middle to Lower Jurassic lithologies.

PROPERTY GEOLOGY AND GEOCHEMISTRY

The Westkit claims are underlain by Lower to Middle Jurassic rocks of the Stewart Complex which form a northwest-southeasterly striking conformable sequence of anticlines and synclines. The rock unit designations used in Figure 4 are as they appear in Open File Map 1986-2 (Alldrick et al, 1986).

Andesite tuffs (Unit 4) are the youngest of the volcanic and sedimentary rocks, forming a ridge on the northeastern side of the property. To the west they are underlain by intermediate volcanic breccias and conglomerates, siltstone and sandstone (Unit 3). The volcanics of Unit 3 are predominant on the north half of the property while the siltstone and sandstone of the same unit occur in the southern part.

The oldest rocks occur in the southern part of the property, overlain by the siltstone-sandstone lithology of Unit 3. They are comprised of flows of often pillowed porphyritic augite and olivine basalt, and basaltic conglomerates (Unit 2) with minor sandstone and siltstone (Unit 1) interbedded with the mafic volcanics (Unit 2).

Numerous small scale faults can be seen on exposed outcrop on the north side of the property. They are generally oriented north-south to northeast-southwest.

The rocks appear to form two parallel anticlines separated by a syncline, also striking northwest-southeast and plunging at approximately 30° to the northwest.

The strata have been intruded by several dykes, the most notable of which occurs on the northern side of the property. It is medium to coarse grained, lamprophyric in composition, up to 10 m wide, 1 km long and trends subparallel to the strike of the strata.

Within the vicinity of this dyke are quartz veins up to 1 m wide and 100 m long, however only minor pyrite mineralization was observed within them.

Sheared rocks in the same area often form limonitic gossans exhibiting moderate to intense jarositic, sericitic and argillic alteration.

Arsenopyrite and chalcopyrite are locally observed associated with pyrite, in quartz veins and shears.

A total of 48 rock grab samples and 10 silt samples were collected and sent to TSL Laboratories of Saskatoon, Saskatchewan.

They were analyzed for gold by atomic absorption and underwent a 35 element geochemical analysis using inductively coupled plasma (ICP) spectrophotometry. Only one rock sample returned an anomalous gold value - sample #36771 (0.039 oz/ton Au) is a tuff exhibiting a high degree of limonitic, argillic and sericitic alteration within a small shear containing up to 20% pyrite. Sample #36768 (230 ppb Au) was taken from subvolcanic float of intermediate composition. It also exhibits strong limonitic and moderate argillic alteration but no sericitic alteration, and contains no pyrite. All other gold assays are insignificant. Sample locations are shown on Figure 5.

The 35 element ICP analysis showed only weakly anomalous zinc in two samples. Sample #36777 (100 ppm Zn) is from a large (1m x 10 m), siltstone hosted quartz - calcite - ankerite vein. Sample #36780 (400 ppm zinc) is from a large quartz vein with minor limonite and sericite in an intermediate tuff. Please refer to Appendix I for sample descriptions, Appendix II for a complete list of results for both gold and 35 element ICP analysis and Appendix III for analytical procedures.

CONCLUSIONS AND RECOMMENDATIONS

The property is underlain by a conformable sequence of Lower to Middle Jurassic, anticlinally folded volcanic and sedimentary rocks of the Stewart Complex.

Geology of the Westkit claims consists of andesite and intermediate pyroclastics (breccia) to the east and to the north. Surrounding the lake in the south of the property are sandstones and greywacke. They are massive to bedded with the beds \leq 1.0 metres thick. Small lenses of andesite are intercalated within the sandstone unit. Massive to porphyritic intermediate to mafic volcanics occur at the south end of the property.

Small scale faulting, intense limonitic alteration, gossans and shears were observed on the property but not found to be of significant extent. In total, 48 rock samples and 10 silt samples were taken.

Due to the lack of any significant geochemical anomaly, mineralized zone or structure no further work is recommended on the Westkit claims.

STATEMENT OF EXPENDITURES

Mobilization/Demobilization (pro-rated from Kitsault Project)		\$ 650.37
Wages:		
B. La Peare (geologist)	4.5 days @ \$340/day	1,530.00
P. Brucciani (")	4 5/6 days @ \$330/day	<u>1,593.00</u>
		\$ 3,123.90
Engineering, Supervision & Administration (pro-rated from Kitsault Project)		1,641.67
Support Costs (camp costs, expiditing, etc. - pro-rated from Kitsault Project)		1,783.11
Transportation & Communication (pro-rated from Kitsault Project)		458.47
Helicopter		3,790.18
Analyses		1,141.80
Report		<u>2,357.32</u>
Total Expenditures		<u>\$14,946.82</u>

CERTIFICATE OF QUALIFICATIONS

I, Bernard Dewonck, of 11931 Dunford Road, Richmond, British Columbia hereby certify:

1. I am a graduate of the University of British Columbia (1974) and hold a BSc. degree in geology.
2. I am an independent consulting geologist retained by OreQuest Consultants Ltd. of #306-595 Howe Street, Vancouver, British Columbia.
3. I have been employed in my profession by various mining companies since graduation.
4. I am a Fellow of the Geological Association of Canada.
5. I am a member of the Canadian Institute of Mining and Metallurgy.
6. The information contained in this report was obtained by supervision of the work done on the Westkit property and a review of the materials listed in the bibliography.
7. Neither OreQuest Consultants Ltd. nor myself have or expect to receive direct or indirect interest in the property or in the securities of Santa Marina Gold Ltd.
8. I consent to and authorize the use of the attached report and my name in the Company's Prospectus, Statement of Material Facts or other public document.


Bernard Dewonck, F.G.A.C.
Consulting Geologist

DATED at Vancouver, British Columbia, this 25th day of March, 1991.

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GEOLOGICAL SURVEY OF CANADA

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APPENDIX I
ROCK SAMPLE DESCRIPTIONS

APPENDIX I

ROCK SAMPLE DESCRIPTIONS

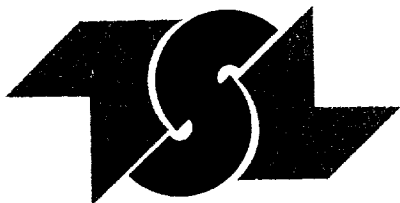
SAMPLE NO.	DESCRIPTION	ANALYSIS (ppb Au)
36751	- Intermediate volcanic breccia - 0.15 m wide quartz vein, minor limonite	15
36752	- Intermediate tuff - Medium grained, Sericitic + Argillic alteration, limonite + jarosite.	5
36753	- Intermediate Tuff - Fine grained, proximal to shear. - $\leq 2\%$ disseminated pyrite	5
36754	- Intermediate Tuff - Fine grained, associated with shear. - $\leq 4\%$ disseminated Pyrite, $\leq 2\%$ aspy	5
36755	- quartz vein - 0.5 m x 20 m, white, massive	<5
36756	- Intermediate Tuff - Qtz-carbonate vein in shear, limonite + argillite + jarosite + sericite alteration. - $\leq 3\%$ pyrite	5
36757	- Quartz vein - Massive, 0.4 m x 100 m	<5
36758	- Intermediate Tuff - Medium grained, sheared; sericite + argillite + limonite + jarosite alteration.	5
36759	- Basalt - Quartz vein: 0.4 m x 20 m	5
36760	- Intermediate volcanic - Proximal to dyke, brecciated, oxidized	15
36761	- Sandstone; - Medium grained, limonite & jarosite alteration - $\leq 5\%$ pyrite, trace arsenopyrite	10
36762	- Shale (float) - Limonitic alteration	5

SAMPLE NO.	DESCRIPTION	ANALYSIS (ppb Au)
36763	- Sandstone - Quartz vein 0.8m x 50m, minor limonite	<5
36764	- Sandstone (float) - Quartz vein 5 cm wide, minor limonite	20
36765	- Siltstone - Quartz vein, vuggy, minor limonite. - ≤ 5% pyrite, trace aspy	10
36766	- Sandstone (float) - Brecciated; limonite + jarosite alteration.	<5
36767	- Sandstone - Brecciated; limonite & jarosite alteration.	5
36768	- Subvolcanic (float) - High limonite, moderate argillic alteration.	230
36769	- Quartz vein float - Moderate limonite alteration	5
36770	- Volcaniclastic - ≤ 20 % pyrite	30
36771	- Volcaniclastic - High sericite + Argillite + limonite in shear. - ≤ 20% pyrite	0.039 oz/ton Au
36772	- Volcanoclastic - Quartz, chlorite epidote vein 8 cm x 1 m; in shear.	15
36773	- Volcanoclastic - Quartz + Calcite + Ankerite in fractures, gossan.	<5
36774	- Quartz vein - 5 cm wide x 3 m long	<5
36775	- Quartz vein (float) - Moderate limonite alteration - ≤ 1 % chalcopyrite	<5

SAMPLE NO.	DESCRIPTION	ANALYSIS (ppb Au)
36776	- Shale(float) - Qtz vein - ≤ 1% pyrite	<5
36777	- Siltstone - Quartz + calcite + ankerite vein 1m x 10 m	200ppm Zn, <5ppb Au
36778	- Quartz vein (float) - Grey, fine grained, hematite alteration	<5
36779	- Breccia tuff - Sub parallel veins, 5cm x 1m.	<5
36780	- Intermediate tuff - Quartz vein 1m x 10m, limonite + sericite.	400ppm Zn, 5 ppb
36781	- Quartz vein - ankerite staining, minor limonite alteration	<5
36782	- Quartz vein - 10m long x 25 cm wide	<5
36801	- Intermediate Volcanic - Minor sericite alteration, moderate to highly fractured - ≤ 1% disseminated pyrite	<5
36802	- Intermediate Volcanic - Barren qtz vein	<5
36803	- Sandstone - Minor chloritic alteration	5
36804	- Intermediate Porphyritic Volcanic - Silicified, possible fault	<5
36805	- Mudstone - Oxidized, highly fractured	<5
36806	- Mudstone - Oxidized, qtz/vein	5

SAMPLE NO.	DESCRIPTION	ANALYSIS (ppb Au)
36807	- Intermediate Porphyritic Volcanic - Weathered oxidized surface - ≤ 1 % pyrite	<5
36808	- Intermediate Porphyritic Volcanic - Qtz. vein, 4 cm wide	<5
36809	- Intermediate Volcanic - Massive flow silicified	<5
36810	- Intermediate Volcanic - Massive flow silicified qtz vein	<5
36811	- Intermediate Volcanic - Horizontal qtz vein, epidote + chlorite + hematite alteration	<5
36812	- Intermediate Volcanic - Bullish white qtz vein	<5
36813	- Intermediate Volcanic - Qtz stringers	<5
36814	- Mafic Subvolcanic - Medium grained, dark green - ≤ 2 % disseminated cubic pyrite	<5
36815	- Intermediate Volcanic - Oxidized shear	<5

APPENDIX II
ASSAY CERTIFICATES



TSL LABORATORIES

DIV. BURGNER TECHNICAL ENTERPRISES LIMITED

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S7K 6A4

☎ (306) 931-1033 FAX: (306) 242-4717

CERTIFICATE OF ANALYSIS

SAMPLE(S) FROM Orequest Consultants Ltd.
306-595 Howe Street
Vancouver, B.C.
V6C 2T5

REPORT No.
S1082

SAMPLE(S) OF Rock

INVOICE #: 15616
P.O.: R2610

B.R. LaPeare
Project WESTKIT

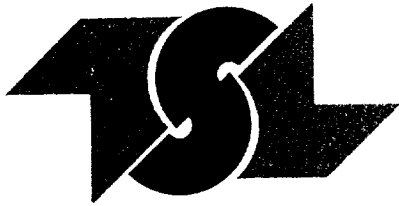
	Au ppb
36801	<5
36802	<5
36803	5
36804	<5
36805	<5
36806	5
36807	<5
36808	<5
36809	<5
36810	<5
36811	<5
36812	<5
36813	<5
36814	<5
36815	<5
36761	10
36762	5
36763	<5
36764	20
36765	<5

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INVOICE TO: Orequest - Vancouver

Sep 25/90

SIGNED Bernie Owen





TSL LABORATORIES

DIV. BURGNER TECHNICAL ENTERPRISES LIMITED

2 - 302 - 48th STREET, EAST
SASKATOON, SASKATCHEWAN
S7K 6A4

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CERTIFICATE OF ANALYSIS

SAMPLE(S) FROM Orequest Consultants Ltd.
306-595 Howe Street
Vancouver, B.C.
V6C 2T5

REPORT No.
S1082

SAMPLE(S) OF Rock

INVOICE #: 15616
P.O.: R2610

B.R. LaPeare
Project WESTKIT

	Au ppb	Au ozt
36766	<5	
36767	5	
36768	230	
36769	5	
36770	30	
36771	>1000	.039
36772	15	
36773	<5	
36774	<5	
36775	<5	
36776	<5	
36777	<5	
36778	<5	
36779	<5	
36780	5	
36781	<5	
36782	<5	

COPIES TO: B. Dewonck, J. Chapman
INVOICE TO: Orequest - Vancouver

Sep 25/90

SIGNED Bernie Dunn



T S L LABORATORIES

2-302-46TH STREET, SASKATOON, SASKATCHEWAN S7K 6A4

TELEPHONE #: (306) 931 - 1033

FAX #: (306) 242 - 4717

I.C.A.P. PLASMA SCAN

Aqua-Regia Digestion

OREQUEST CONSULTANTS LTD.

306 - 595 HOWE STREET

VANCOUVER, B.C.

V6C 2T5

ATTN: B. DEWONCK, J. CHAPMAN

PROJECT: WESTKIT R-2610

T.S.L. REPORT No. : S - 1082 - 1

T.S.L. File No. : M - 8138

T.S.L. Invoice No. : 15679

ALL RESULTS PPM

ELEMENT	36801	36802	36803	36804	36805	36806	36807	36808	36809
Aluminum [Al]	28000	16000	30000	33000	17000	14000	19000	16000	15000
Iron [Fe]	48000	29000	57000	48000	45000	35000	44000	25000	22000
Calcium [Ca]	5200	2000	3000	43000	11000	35000	45000	4300	10000
Magnesium [Mg]	10000	7500	11000	10000	5800	6400	9500	8200	7500
Sodium [Na]	210	180	130	60	90	60	140	110	130
Potassium [K]	720	360	390	730	1700	1500	1600	420	1400
Titanium [Ti]	680	480	1000	75	37	13	24	34	120
Manganese [Mn]	880	610	800	920	820	410	790	360	240
Phosphorus [P]	1400	700	940	1700	860	810	2200	930	760
Barium [Ba]	73	34	95	80	140	140	82	39	120
Chromium [Cr]	25	56	97	180	57	31	85	180	35
Zirconium [Zr]	15	7	19	11	10	7	11	5	4
Copper [Cu]	76	17	63	150	66	190	150	47	53
Nickel [Ni]	11	5	21	92	96	77	93	51	29
Lead [Pb]	12	9	10	7	6	15	4	8	11
Zinc [Zn]	75	42	77	71	78	99	56	53	71
Vanadium [V]	200	110	190	130	43	27	66	82	25
Strontium [Sr]	27	10	15	130	22	120	260	17	58
Cobalt [Co]	14	6	26	16	20	26	16	10	8
Molybdenum [Mo]	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2
Silver [Ag]	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
Cadmium [Cd]	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
Beryllium [Be]	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
Baron [B]	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10
Antimony [Sb]	20	< 5	10	10	5	5	10	< 5	5
Yttrium [Y]	8	4	7	9	10	7	11	4	5
Scandium [Sc]	15	6	18	8	9	5	9	4	2
Tungsten [W]	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10
Niobium [Nb]	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10
Thorium [Th]	60	20	50	30	20	30	40	< 10	30
Arsenic [As]	90	55	35	45	55	55	140	25	25
Bismuth [Bi]	20	10	25	< 5	< 5	< 5	< 5	10	5
Tin [Sn]	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10
Lithium [Li]	65	30	15	80	30	30	30	30	20
Holmium [Ho]	< 10	< 10	< 10	10	< 10	< 10	< 10	< 10	< 10

DATE : OCT-01-1990

SIGNED :

Bernie Dunn

T S L LABORATORIES

2-302-48TH STREET, SASKATOON, SASKATCHEWAN S7K 6A4
 TELEPHONE #: (306) 931 - 1033
 FAX #: (306) 242 - 4717

I.C.A.P. PLASMA SCAN

Aqua-Regia Digestion

OREQUEST CONSULTANTS LTD.
 306 - 595 HOWE STREET
 VANCOUVER, B.C.
 V6C 2T5

T.S.L. REPORT No. : S - 1082 - 2
 T.S.L. File No. : SE27MA
 T.S.L. Invoice No. : 15679

ATTN: B. DEWONCK, J. CHAPMAN

PROJECT: WESTKIT

R-2610

ALL RESULTS PPM

ELEMENT	36810	36811	36812	36813	36814	36815	36761	36762	36763
Aluminum [Al]	4400	8000	12000	20000	17000	12000	4500	20000	3200
Iron [Fe]	8200	11000	23000	43000	22000	33000	39000	36000	7200
Calcium [Ca]	28000	5000	2300	11000	34000	11000	1600	2900	2600
Magnesium [Mg]	3200	4600	5900	8200	5900	4000	1500	7500	1400
Sodium [Na]	40	300	100	1000	830	100	60	90	50
Potassium [K]	580	300	540	470	1200	1900	2300	1600	160
Titanium [Ti]	12	820	860	1900	1100	47	17	500	400
Manganese [Mn]	440	270	490	670	560	560	85	320	280
Phosphorus [P]	200	460	320	1600	750	930	960	1200	140
Barium [Ba]	46	17	23	58	180	87	47	120	20
Chromium [Cr]	100	69	71	68	42	13	21	27	130
Zirconium [Zr]	2	4	7	13	8	6	5	7	2
Copper [Cu]	28	6	16	28	14	19	7	59	6
Nickel [Ni]	12	4	3	18	4	5	2	16	3
Lead [Pb]	9	5	18	11	11	3	5	14	5
Zinc [Zn]	42	33	46	91	97	65	10	52	8
Vanadium [V]	6	18	28	93	62	22	9	63	17
Strontium [Sr]	190	120	12	59	120	17	9	13	4
Cobalt [Co]	3	7	5	16	9	15	7	6	2
Molybdenum [Mo]	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2
Silver [Ag]	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
Cadmium [Cd]	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
Beryllium [Be]	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
Boron [B]	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	220
Antimony [Sb]	< 5	< 5	< 5	5	5	< 5	< 5	< 5	< 5
Yttrium [Y]	3	2	4	8	7	8	3	8	< 1
Scandium [Sc]	< 1	1	3	4	3	5	1	5	1
Tungsten [W]	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10
Niobium [Nb]	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10
Thorium [Th]	< 10	10	20	40	20	30	10	30	< 10
Arsenic [As]	20	15	10	15	15	15	30	15	< 5
Bismuth [Bi]	< 5	< 5	5	10	< 5	< 5	< 5	10	< 5
Tin [Sn]	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10
Lithium [Li]	5	< 5	15	10	25	10	< 5	35	< 5
Holmium [Ho]	< 10	< 10	< 10	10	< 10	< 10	< 10	< 10	< 10

DATE : OCT-01-1990

SIGNED :

Bernie Dunn

T S L LABORATORIES

2-302-48TH STREET, SASKATOON, SASKATCHEWAN S7K 6A4
 TELEPHONE #: (306) 931 - 1033
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I.C.A.P. PLASMA SCAN

Aqua-Regia Digestion

OREQUEST CONSULTANTS LTD.
 306 - 595 HOWE STREET
 VANCOUVER, B.C.
 V6C 2T5

T.S.L. REPORT No. : S - 1082 - 3
 T.S.L. File No. : SE27MA
 T.S.L. Invoice No. : 15679

ATTN: B. DEWONCK, J. CHAPMAN

PROJECT: WESTKIT

R-2610

ALL RESULTS PPM

ELEMENT	36764	36765	36766	36767	36768	36769	36770	36771	36772
Aluminum [Al]	4100	1500	3500	3700	6800	1000	9100	4900	6100
Iron [Fe]	11000	4300	14000	22000	42000	8500	64000	56000	22000
Calcium [Ca]	840	300	10000	1000	860	1500	1300	7200	42000
Magnesium [Mg]	2300	790	2100	1400	4300	420	2200	1000	3200
Sodium [Na]	80	40	80	150	370	70	120	80	10
Potassium [K]	250	180	750	470	1500	330	1900	2000	430
Titanium [Ti]	57	46	9	9	12	6	20	9	7
Manganese [Mn]	570	330	820	890	87	210	480	330	1700
Phosphorus [P]	260	58	440	400	980	140	860	930	120
Barium [Ba]	18	10	57	57	82	20	1000	130	89
Chromium [Cr]	130	150	120	93	38	140	35	49	89
Zirconium [Zr]	2	1	3	3	6	1	8	6	3
Copper [Cu]	15	6	5	6	21	6	26	7	10
Nickel [Ni]	8	5	30	30	4	9	3	2	4
Lead [Pb]	5	4	3	3	2	4	13	39	4
Zinc [Zn]	27	15	14	17	5	14	18	11	42
Vanadium [V]	18	6	9	13	22	6	22	20	13
Strontium [Sr]	5	2	33	8	15	5	45	16	150
Cobalt [Co]	4	1	5	7	4	2	8	9	6
Molybdenum [Mo]	< 2	4	< 2	< 2	30	2	2	< 2	2
Silver [Ag]	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
Cadmium [Cd]	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
Beryllium [Be]	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
Boron [B]	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10
Antimony [Sb]	10	< 5	15	< 5	5	240	25	10	< 5
Yttrium [Y]	2	2	6	5	2	< 1	6	5	5
Scandium [Sc]	2	1	2	4	1	< 1	2	2	< 1
Tungsten [W]	< 10	10	< 10	< 10	< 10	10	< 10	< 10	< 10
Niobium [Nb]	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10
Thorium [Th]	< 10	< 10	< 10	< 10	20	< 10	20	10	< 10
Arsenic [As]	10	< 5	45	45	5	10	55	15	5
Bismuth [Bi]	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5
Tin [Sn]	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10
Lithium [Li]	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5
Holmium [Ho]	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10

DATE : OCT-01-1990

SIGNED :

Bernie Dunn

T S L LABORATORIES

2-302-48TH STREET, SASKATOON, SASKATCHEWAN S7K 6A4

TELEPHONE #: (306) 931 - 1033

FAX #: (306) 242 - 4717

I.C.A.P. PLASMA SCAN

Aqua-Regia Digestion

OREQUEST CONSULTANTS LTD.
306 - 595 HOWE STREET
VANCOUVER, B.C.
V6C 2T5

T.S.L. REPORT No. : S - 1082 - 4

T.S.L. File No. : SE27MA

T.S.L. Invoice No. : 15679

ATTN: B. DEWONCK, J. CHAPMAN

PROJECT: WESTKIT

R-2610

ALL RESULTS PPM

ELEMENT	36773	36774	36775	36776	36777	36778	36779	36780	36781
Aluminum [Al]	4100	950	920	1500	440	210	1900	17000	4800
Iron [Fe]	38000	5600	5600	8600	10000	3100	7300	31000	12000
Calcium [Ca]	44000	2700	3200	85000	86000	22000	6000	13000	880
Magnesium [Mg]	5300	490	430	1900	2000	220	980	8300	2400
Sodium [Na]	200	70	40	30	< 10	20	30	120	40
Potassium [K]	1600	260	350	230	110	60	400	570	460
Titanium [Ti]	5	5	6	< 1	< 1	4	4	490	28
Manganese [Mn]	1600	840	190	1500	720	740	520	1900	260
Phosphorus [P]	970	110	84	< 2	< 2	16	98	360	170
Barium [Ba]	510	46	27	20	38	47	42	99	16
Chromium [Cr]	42	190	150	48	38	210	120	150	130
Zirconium [Zr]	7	1	< 1	1	2	< 1	2	9	2
Copper [Cu]	8	5	87	5	4	5	5	58	3
Nickel [Ni]	1	5	3	4	4	5	4	24	5
Lead [Pb]	4	< 1	2	< 1	2	2	20	93	5
Zinc [Zn]	76	13	8	9	200	14	23	400	31
Vanadium [V]	20	4	3	3	2	2	3	67	10
Strontium [Sr]	170	11	20	1600	1700	95	37	34	4
Cobalt [Co]	10	2	2	< 1	< 1	< 1	4	12	3
Molybdenum [Mo]	< 2	4	< 2	< 2	< 2	6	< 2	< 2	< 2
Silver [Ag]	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
Cadmium [Cd]	< 1	< 1	< 1	< 1	1	< 1	< 1	1	< 1
Beryllium [Be]	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
Boron [B]	20	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10
Antimony [Sb]	5	< 5	< 5	< 5	< 5	< 5	< 5	5	< 5
Yttrium [Y]	11	2	< 1	13	10	< 1	2	7	1
Scandium [Sc]	4	< 1	< 1	1	< 1	< 1	< 1	6	< 1
Tungsten [W]	< 10	< 10	20	< 10	< 10	< 10	< 10	< 10	< 10
Niobium [Nb]	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10
Thorium [Th]	30	< 10	< 10	< 10	< 10	< 10	< 10	20	< 10
Arsenic [As]	< 5	< 5	5	< 5	< 5	< 5	10	30	10
Bismuth [Bi]	< 5	< 5	< 5	< 5	< 5	< 5	< 5	5	< 5
Tin [Sn]	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10
Lithium [Li]	< 5	< 5	< 5	< 5	< 5	< 5	< 5	15	< 5
Holmium [Ho]	< 10	< 10	< 10	20	20	< 10	< 10	< 10	< 10

DATE : OCT-01-1990

SIGNED :

Bernie Duro

T S L LABORATORIES

2-302-48TH STREET, SASKATOON, SASKATCHEWAN S7K 6A4

TELEPHONE #: (306) 931 - 1033

FAX #: (306) 242 - 4717

I.C.A.P. PLASMA SCAN

Aqua-Regia Digestion

DREQUEST CONSULTANTS LTD.

306 - 595 HOWE STREET

VANCOUVER, B.C.

V6C 2T5

ATTN: B. DEWONCK, J. CHAPMAN

PROJECT: WESTKIT

R-2610

T.S.L. REPORT No.: S - 1082 - 5

T.S.L. File No.: SE27MA

T.S.L. Invoice No.: 15679

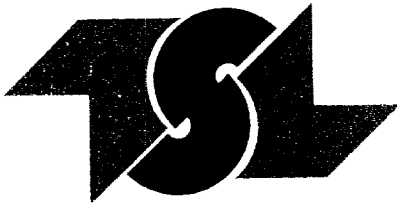
ALL RESULTS PPM

ELEMENT	36782
Aluminum [Al]	950
Iron [Fe]	3900
Calcium [Ca]	500
Magnesium [Mg]	460
Sodium [Na]	40
Potassium [K]	180
Titanium [Ti]	9
Manganese [Mn]	110
Phosphorus [P]	36
Barium [Ba]	6
Chromium [Cr]	190
Zirconium [Zr]	1
Copper [Cu]	4
Nickel [Ni]	4
Lead [Pb]	2
Zinc [Zn]	6
Vanadium [V]	2
Strontium [Sr]	3
Cobalt [Co]	< 1
Molybdenum [Mo]	4
Silver [Ag]	< 1
Cadmium [Cd]	< 1
Beryllium [Be]	< 1
Boron [B]	< 10
Antimony [Sb]	< 5
Yttrium [Y]	< 1
Scandium [Sc]	< 1
Tungsten [W]	< 10
Niobium [Nb]	< 10
Thorium [Th]	< 10
Arsenic [As]	45
Bismuth [Bi]	< 5
Tin [Sn]	< 10
Lithium [Li]	< 5
Holmium [Ho]	< 10

DATE: OCT-01-1990

SIGNED:





TSL LABORATORIES

DIV. BURGNER TECHNICAL ENTERPRISES LIMITED

2 - 302 - 48th STREET, EAST
SASKATOON, SASKATCHEWAN
S7K 6A4

☎ (306) 931-1033 FAX: (306) 242-4717

CERTIFICATE OF ANALYSIS

SAMPLE(S) FROM OreQuest Consultants Ltd.
306 - 595 Howe Street
Vancouver, B.C.
V6C 2T5

REPORT No.
S1057

SAMPLE(S) OF Rock

INVOICE #: 15559
P.O.: R2576

P. Brucciani
Project WESTKIT

	Au ppb
36751	15
36752	5
36753	5
36754	5
36755	<5
36756	5
36757	<5
36758	5
36759	5
36760	15

COPIES TO: B. Dewonck, J. Chapman
INVOICE TO: OreQuest - Vancouver

Sep 21/90

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Page 1 of 1



T S L LABORATORIES

2-302-48TH STREET, SASKATOON, SASKATCHEWAN S7K 6A4

TELEPHONE #: (306) 931 - 1033
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I.C.A.P. PLASMA SCAN

Aqua-Regia Digestion

OREQUEST CONSULTANTS LTD.
 306 - 595 HOWE STREET
 VANCOUVER, B.C.
 V6C 2T5

T.S.L. REPORT No. : S - 1057 - 1
 T.S.L. File No. : M - 8120
 T.S.L. Invoice No. : 15666

ATTN: E. DEWONCK, J. CHAPMAN

PROJECT: WESTKIT R-2576

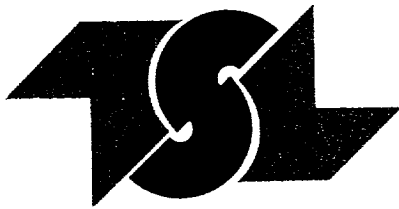
ALL RESULTS PPM

ELEMENT	36751	36752	36753	36754	36755	36756	36757	36758	36759	36760
Aluminum [Al]	1900	7700	4700	9100	8300	1400	740	8800	2400	5300
Iron [Fe]	5600	48000	60000	50000	30000	8900	3200	57000	7100	36000
Calcium [Ca]	900	1300	1200	2100	71000	1500	2400	12000	1100	3300
Magnesium [Mg]	1500	2400	2300	4600	6400	990	730	4800	1700	2500
Sodium [Na]	150	140	340	260	50	130	60	220	90	410
Potassium [K]	190	3100	640	2100	710	250	80	1400	150	1700
Titanium [Ti]	110	1200	1600	1400	110	210	20	970	190	1400
Manganese [Mn]	96	71	110	130	1400	60	120	410	96	110
Phosphorus [P]	170	1100	960	1300	330	140	60	1400	150	1300
Barium [Ba]	740	170	84	43	60	67	34	11	620	66
Chromium [Cr]	120	57	35	22	33	120	99	23	100	44
Zirconium [Zr]	2	19	16	16	7	2	< 1	15	3	13
Copper [Cu]	24	29	58	52	26	10	29	93	7	73
Nickel [Ni]	7	1	3	3	4	3	3	2	2	2
Lead [Pb]	5	19	16	7	3	3	21	13	3	11
Zinc [Zn]	9	5	16	11	19	4	4	71	10	22
Vanadium [V]	19	72	160	100	32	21	6	74	19	100
Strontium [Sr]	11	11	16	14	220	7	8	38	9	21
Cobalt [Co]	3	< 1	8	6	7	2	< 1	14	3	6
Molybdenum [Mo]	< 2	4	< 2	< 2	< 2	< 2	4	< 2	< 2	4
Silver [Ag]	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
Cadmium [Cd]	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
Beryllium [Be]	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
Boron [B]	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10
Antimony [Sb]	10	< 5	< 5	< 5	5	< 5	< 5	< 5	< 5	< 5
Yttrium [Y]	< 1	5	4	4	6	< 1	< 1	7	< 1	4
Scandium [Sc]	1	20	10	10	6	2	< 1	8	2	9
Tungsten [W]	< 10	< 10	10	< 10	< 10	< 10	< 10	< 10	< 10	< 10
Niobium [Nb]	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10
Thorium [Th]	< 10	20	10	40	40	< 10	< 10	40	< 10	60
Arsenic [As]	15	15	20	25	15	< 5	5	35	5	25
Bismuth [Bi]	10	< 5	< 5	< 5	15	10	15	< 5	15	< 5
Tin [Sn]	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10
Lithium [Li]	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5
Holmium [Ho]	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10

DATE : SEP-26-1990

SIGNED :





TSL LABORATORIES

DIV. BURGNER TECHNICAL ENTERPRISES LIMITED

2 - 302 - 48th STREET, EAST
SASKATOON, SASKATCHEWAN
S7K 6A4

☎ (306) 931-1033 FAX: (306) 242-4717

CERTIFICATE OF ANALYSIS

SAMPLE(S) FROM Orequest Consultants Ltd.
306-595 Howe Street
Vancouver, B.C.
V6C 2T5

REPORT No.
S1113

SAMPLE(S) OF Silt

INVOICE #: 15632
P.O.: R2612

B.P. LaPeare
Project WESTKIT

	Au ppb
WK 301	<5
WK 302	5
WK 303	<5
WK 304	5
WK 347	5
WK 348	20
WK 349	10
WK 350	15
WK 351	<5
WK 352	5

COPIES TO: B. Dewonck, J. Chapman
INVOICE TO: Orequest - Vancouver

Sep 26/90

SIGNED _____



T S L LABORATORIES

2-302-48TH STREET, SASKATOON, SASKATCHEWAN S7K 6A4
 TELEPHONE #: (306) 931 - 1033
 FAX #: (306) 242 - 4717

I.C.A.P. PLASMA SCAN

Aqua-Regia Digestion

REQUEST CONSULTANTS LTD.

16 - 595 HOWE STREET
 VANCOUVER, B.C.

T.S.L. REPORT No. : S - 1113 - 1

T.S.L. File No. : M - 8164

T.S.L. Invoice No. : 15785

⁴⁵Ca 2T5

CLIENT: B. DEWONCK, J. CHAPMAN

PROJECT: WBSTKIT

R-2612

ALL RESULTS PPM

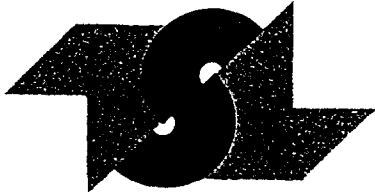
ELEMENT	WK 301	WK 302	WK 303	WK 304	WK 347	WK 348	WK 349	WK 350	WK 351	WK 352
Aluminum [Al]	12000	14000	15000	18000	21000	17000	14000	14000	19000	19000
Iron [Fe]	28000	31000	32000	37000	41000	36000	32000	32000	34000	37000
Calcium [Ca]	10000	4800	2400	3600	4400	12000	3700	3500	3300	4200
Magnesium [Mg]	5300	5600	4900	6300	6300	6400	5800	5900	6300	6000
Sodium [Na]	130	150	80	80	80	80	50	50	80	90
Potassium [K]	410	480	820	450	1000	490	520	490	550	820
Titanium [Ti]	230	230	98	110	31	360	200	210	210	100
Manganese [Mn]	520	700	1200	690	1400	650	730	710	840	1300
Phosphorus [P]	960	960	670	1100	920	1100	810	740	920	1100
Barium [Ba]	80	110	120	87	160	110	74	73	80	110
Chromium [Cr]	27	32	16	51	20	42	13	12	65	50
Zirconium [Zr]	5	5	3	7	6	7	6	6	4	6
Copper [Cu]	63	62	23	72	88	74	50	53	66	120
Nickel [Ni]	25	28	11	38	22	30	11	11	56	65
Lead [Pb]	9	10	15	9	12	10	19	19	13	19
Zinc [Zn]	68	71	77	69	85	71	86	79	76	88
Vanadium [V]	61	69	40	87	77	90	61	63	78	70
Strontium [Sr]	63	36	16	20	23	49	29	29	19	33
Cobalt [Co]	10	13	11	14	18	14	12	12	15	21
Molybdenum [Mo]	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2
Silver [Ag]	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
Cadmium [Cd]	< 1	< 1	< 1	< 1	< 1	< 1	1	< 1	< 1	< 1
Beryllium [Be]	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
Boron [B]	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10
Antimony [Sb]	< 5	< 5	< 5	< 5	< 5	< 5	5	< 5	< 5	< 5
Yttrium [Y]	8	8	7	9	12	8	8	8	9	12
Scandium [Sc]	5	6	4	7	8	7	6	6	5	6
Tungsten [W]	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10
Niobium [Nb]	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10
Thorium [Th]	30	30	60	30	50	30	40	30	20	30
Arsenic [As]	15	15	15	10	25	20	45	45	10	30
Bismuth [Bi]	10	< 5	< 5	5	5	10	< 5	< 5	< 5	5
Tin [Sn]	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10
Lithium [Li]	15	20	20	25	45	25	25	25	25	25
Holmium [Ho]	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10

TE : OCT-01-1990

SIGNED :

Bernie Dean

APPENDIX III
ANALYTICAL PROCEDURES



T S L LABORATORIES

DIVISION OF BURGENER TECHNICAL ENTERPRISES LIMITED

2 - 302 - 48th STREET,
SASKATOON, SASKATCHEWAN
S7K 6A4

☎ (306) 931-1033 FAX: (306) 242-4717

OreQuest Consultants Ltd.
306 - 595 Howe Street
Vancouver, B.C.
V6C 2T5

Jan. 9/90

1 - SAMPLE PREPARATION PROCEDURES Rock and Core

- Entire sample is crushed, riffled and the subsequent split is pulverized to -150 mesh.

Soils and Silts

- Sample is dried and sieved to -80 mesh.

2 - FIRE ASSAY PROCEDURES

Geochem Gold (Au ppb) -

A 30g subsample is fused, cupelled and the subsequent 'dore' bead is dissolved in aqua regia. The solution is then analyzed on the Atomic Absorption.

Assay Gold (Au oz/ton) -

A 29.16g subsample is fused, cupelled and the subsequent 'dore' bead is parted with a dilute nitric acid solution. The gold obtained is rinsed with DI water, annealed and weighed on a microbalance.

3 - Geochem Silver (Ag ppm) -

A 1g subsample is digested with 5mls of aqua regia for 1 1/2 to 2 hours, then diluted with DI H₂O. The solutions are then run on the Atomic Absorption.

Assay Silver (Ag oz/ton) -

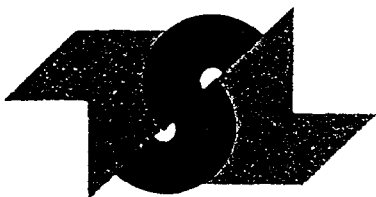
A 2.00g sample is digested with 15mls HCl plus 5mls HNO₃ for 1 hour in a covered beaker; diluted to 100mls with 1:1 HCl. The solution is run on the Atomic Absorption.

4 - BASE METALS

Geochem - A 1g subsample is digested with 5mls of aqua regia for 1 1/2 to 2 hours, then diluted with DI H₂O. The solutions are then run on the Atomic Absorption.

Assay - A 0.500g sample is taken to dryness with 15mls HCl plus 5mls HNO₃, then redissolved with 5mls HNO₃ and diluted to 100mls with DI H₂O. The solution is run on the Atomic Absorption.

con't...



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Page 2.

5. ICAP Geochemical Analysis -

A 1g subsample is digested with 5mls of aqua regia for 1 1/2 to 2 hours, then diluted with DI H₂O. The solutions are then run on the ICAP.

6. Heavy Mineral Concentrates -

The sample is initially wet sieved through -1700 micron, then placed on a shaker table. A heavy liquid separation is performed, Methylene Iodide, (S.G. - 3.3); diluted to give a S.G. of 2.96. The heavies were then analyzed for Au by Fire Assay plus an ICAP Scan.

Yours truly,

A handwritten signature in cursive script that reads "Bernie Dunn". The signature is written in black ink and is positioned above the typed name.

Bernie Dunn

BD/vh

LEGEND

JURASSIC

Lower to Middle Jurassic

4 MIDDLE VOLCANIC UNIT

- a Green and minor maroon andesite pyroclastic rocks
- b Feldspar + hornblende andesite porphyry
- c Black siltstone
- d Maroon siltstone, sandstone, and conglomerate

3 MIDDLE SEDIMENTARY UNIT

- a Black siltstone
- c Green and purple volcanic breccia with minor siltstone, sandstone, and conglomerate
- d Interbedded siltstone, sandstone, wacke, and polymictic pebble conglomerate

2 MAFIC VOLCANIC UNIT

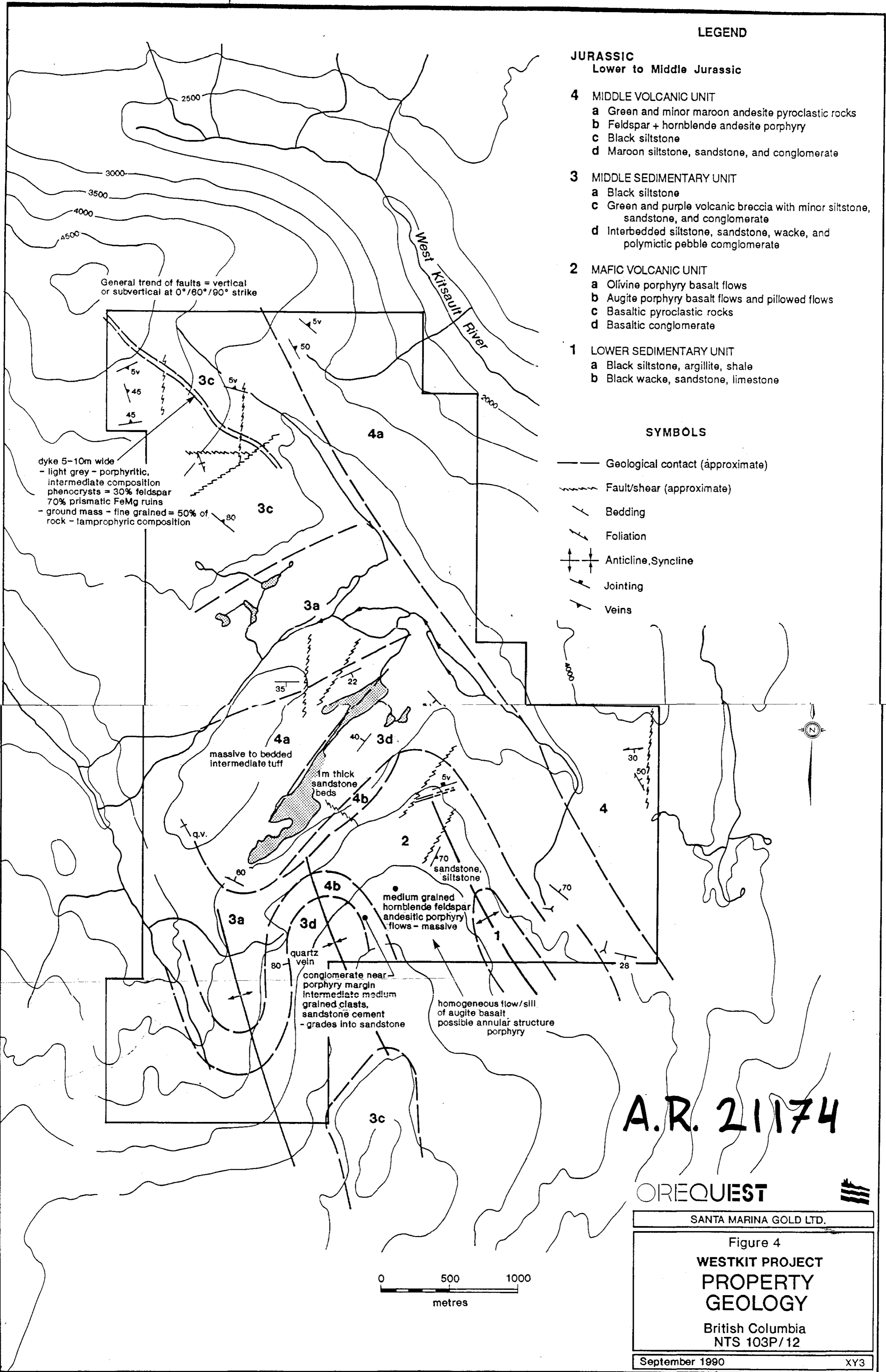
- a Olivine porphyry basalt flows
- b Augite porphyry basalt flows and pillowed flows
- c Basaltic pyroclastic rocks
- d Basaltic conglomerate

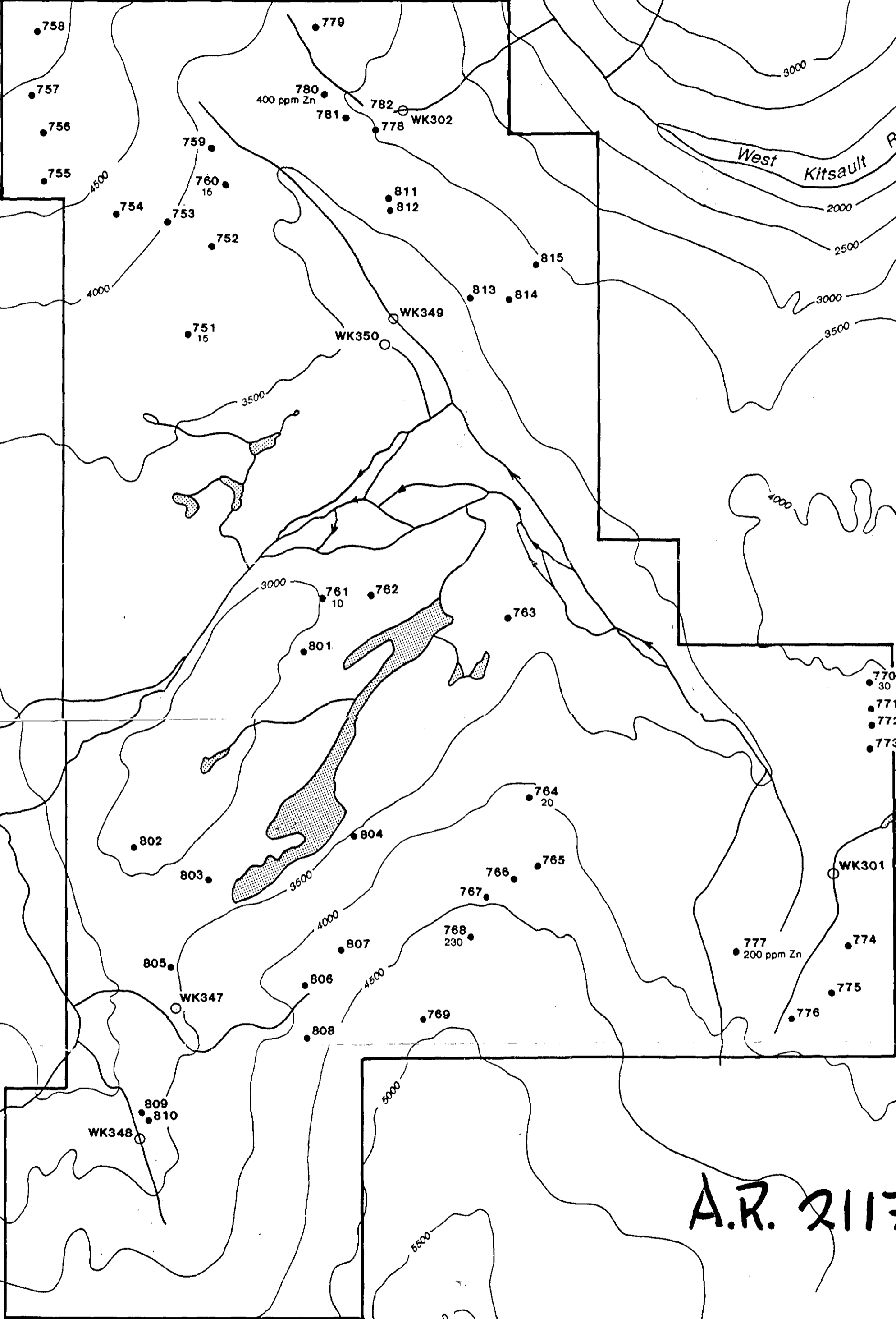
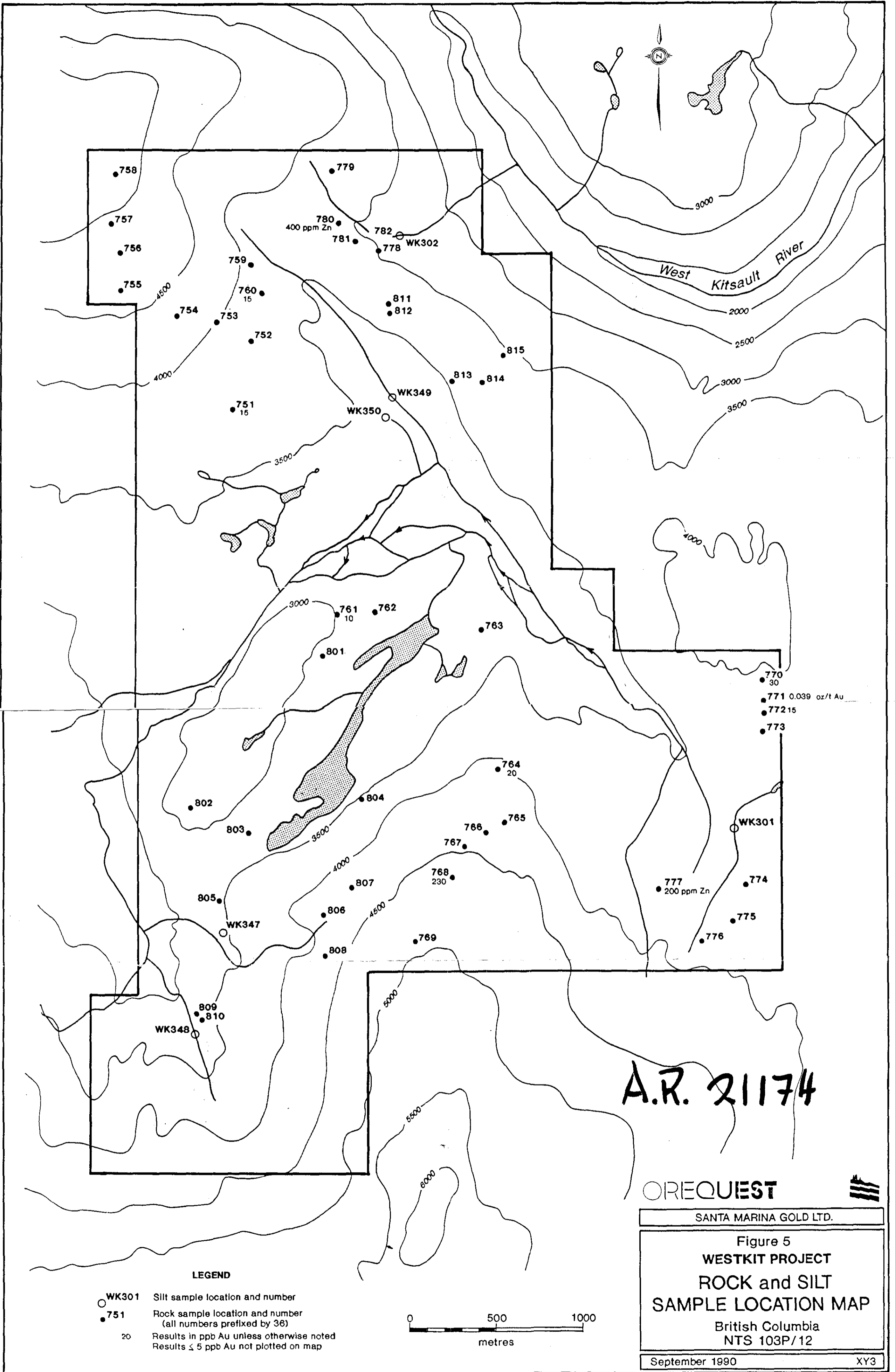
1 LOWER SEDIMENTARY UNIT

- a Black siltstone, argillite, shale
- b Black wacke, sandstone, limestone

SYMBOLS

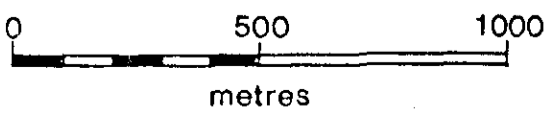
- Geological contact (approximate)
- ~ Fault/shear (approximate)
- Bedding
- Foliation
- ⊕ Anticline, Syncline
- Jointing
- Veins





LEGEND

- WK301 Silt sample location and number
- 751 Rock sample location and number (all numbers prefixed by 36)
- 20 Results in ppb Au unless otherwise noted
Results \leq 5 ppb Au not plotted on map



A.R. 21174

OREQUEST

SANTA MARINA GOLD LTD.

Figure 5
WESTKIT PROJECT
ROCK and SILT
SAMPLE LOCATION MAP
 British Columbia
 NTS 103P/12

September 1990 XY3