

MINISTRY OF ENERGY, MINES  
AND PETROLEUM RESOURCES  
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VANCOUVER, B.C.

LOG NO: 1221	RD.
ACTION:	
FILE NO:	

GEOCHEMICAL REPORT  
ON THE  
QUASH 1-12, 16-19  
MINERAL CLAIMS

FILMED

LIARD MINING DIVISION

N.T.S. 104 G/09

Located at Co-ordinates: 130° 13' W  
57° 45' N

NORANDA EXPLORATION COMPANY, LIMITED  
(NO PERSONAL LIABILITY)

GEOLOGICAL BRANCH  
ASSESSMENT REPORT

19,444

BY: MIKE SAVELL

NOVEMBER, 1989

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SUMMARY:

The Quash 1-12, 16-19 mineral claims (Quash Creek Property) were staked in August, 1988 to secure the apparent source area of several anomalous silt samples collected as part of the National Geochem Reconnaissance Survey for N.T.S. 104 G. The sampling indicated an area anomalous in antimony and gold.

The property is underlain by Upper Triassic island arc assemblages of marine volcanics including augite-andesite flows, pyroclastics, derived volcanoclastic rocks and related subvolcanic intrusions, siltstone, chert, calcareous siltstone, greywacke and minor limestone.

In order to locate and evaluate the source of the RGS silt geochem anomaly, a brief program consisting of stream sediment sampling, prospecting and rock chip sampling was undertaken in early September, 1989.

Geochemical anomalies detected are believed to reflect a mineralizing system which has yet to be fully evaluated. The presence of a large, visible oxidized area containing float boulders of brecciated, pyritized, baritic, quartz-ankerite altered volcanics mineralized with sphalerite and chalcopryrite with gold values up to 2370 ppb on this essentially untested prospect warrant that additional exploration surveys be undertaken.

Detailed prospecting and sampling should be completed in the watersheds of anomalous silt results. A small grid should be placed over the gossan at the south end of the claims to facilitate detailed soil geochem, rock sampling and geological surveys.

INTRODUCTION:

The Quash 1-12, 16-19 mineral claims (Quash Creek Property) were staked in August, 1988 to secure the apparent source area of several anomalous silt samples collected as part of the National Geochem Reconnaissance Survey for N.T.S. 104 G. The sampling indicated an area anomalous in antimony and gold.

All work reported here was performed by employees of Noranda Exploration Company, Limited.

LOCATION & ACCESS:

The property is located approximately 200 km north of Stewart, B.C., and 18 km southeast of the village of Iskut (Figure 1). Access to the property has been by helicopter from the Stewart-Cassiar Highway, 15 km to the east.

PHYSIOGRAPHY & VEGETATION:

The property lies on the Klastline Plateau, a high, dissected highland contained within the much larger Spatsizi Plateau. Elevations on the property range from about 1370 metres to 1980 metres. Except for a few prominent cliffs and small glaciers, most of the property can easily be traversed by foot.

The property lies entirely within alpine, with vegetation consisting of hardy grasses, mosses, lichens and small shrubs, typical of a high latitude, high elevation environment.

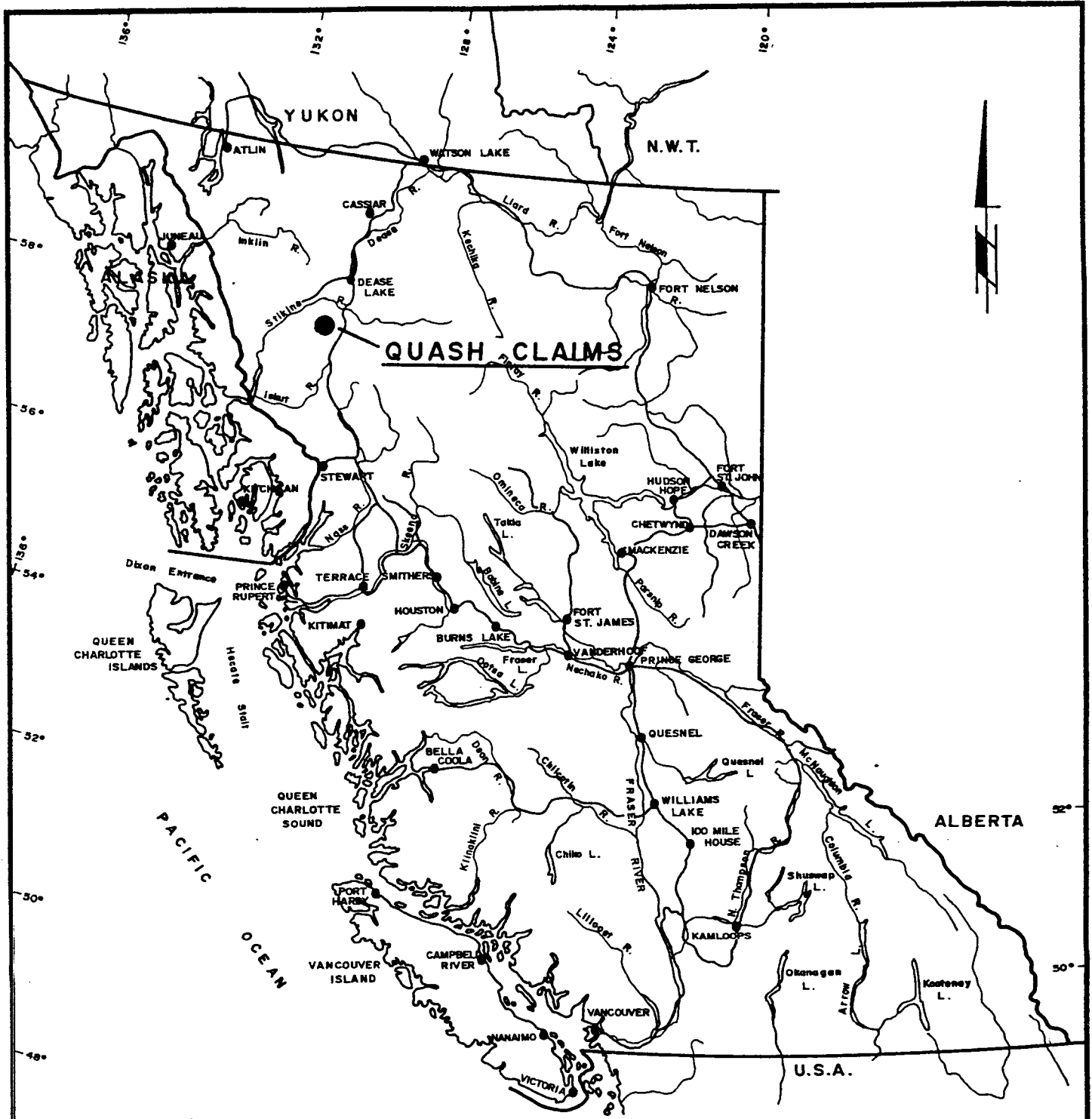
CLAIM STATISTICS:

The property is comprised of sixteen 2-post claims as listed below and shown in Figure 2.

Upon acceptance of this report, the claims will be in good standing until the expiry date below:

<u>NAME</u>	<u>RECORD #'S</u>	<u>UNITS</u>	<u>RECORD DATE</u>	<u>EXPIRY DATE</u>
Quash 1-12	5505-5516	12	Sept. 17, 1989	Sept. 17, 1990
Quash 16-19	5517-5520	4	Sept. 17, 1989	Sept. 17, 1990

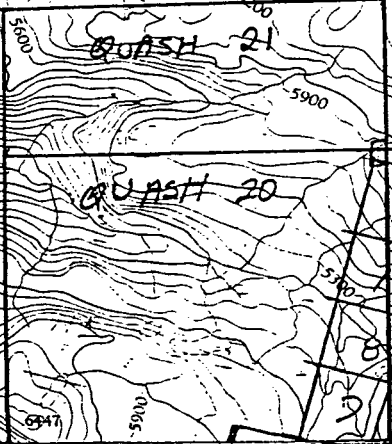
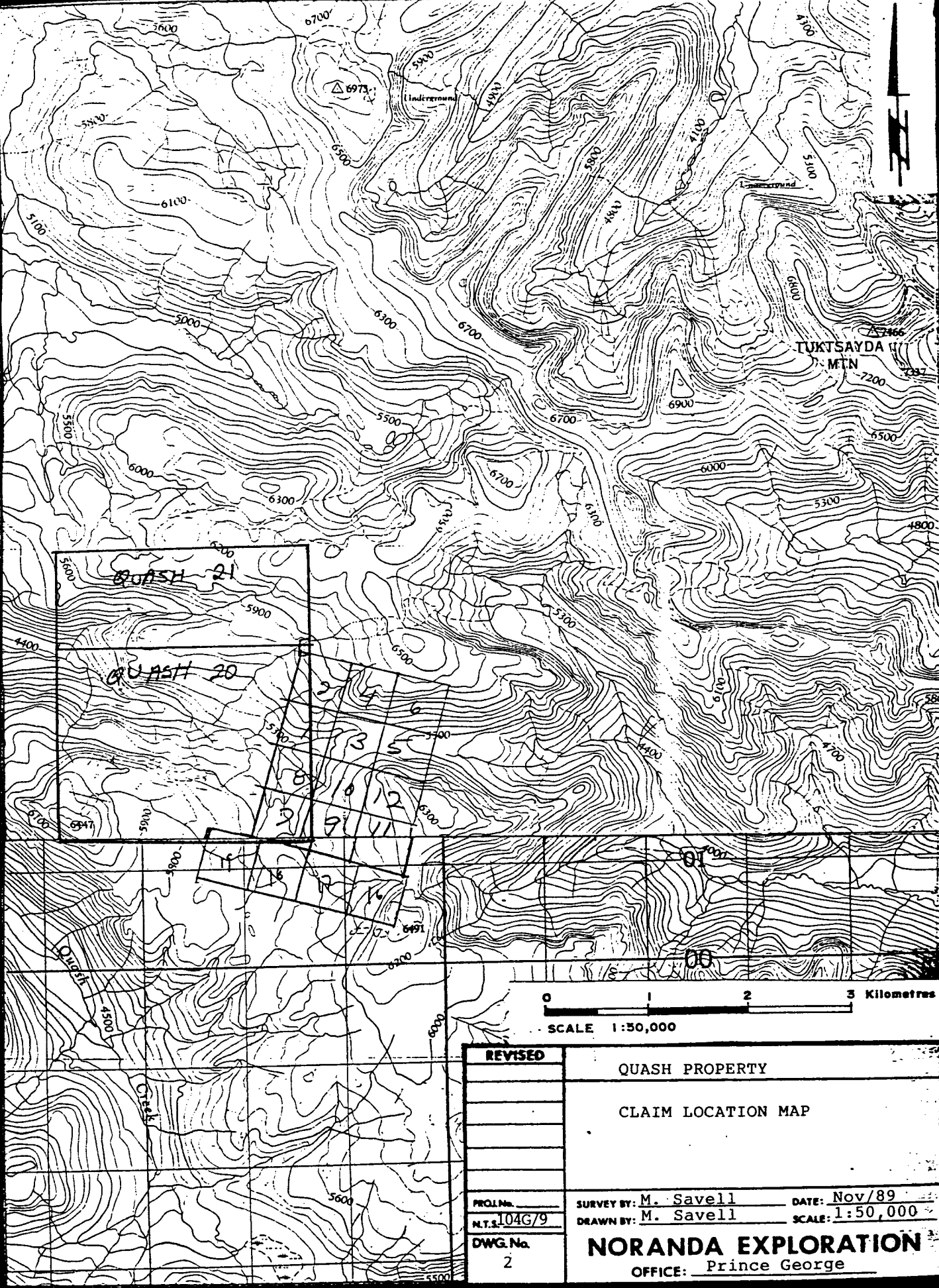
All claims are owned and operated by Noranda Exploration Company, Limited (no personal liability).



0 100 200 KILOMETRES  
SCALE : 1 : 8,000,000

REVISED	QUASH PROPERTY	
	LOCATION MAP	
PROJ.No. _____	SURVEY BY: <u>M. Savell</u>	DATE: <u>Nov/89</u>
N.T.S. _____	DRAWN BY: <u>S.K.B.</u>	SCALE: <u>1 : 8,000,000</u>
DWG.No.	<b>NORANDA EXPLORATION</b>	
1	OFFICE: <u>PRINCE GEORGE, B.C.</u>	

VANCAL 11927



0 1 2 3 Kilometres  
 SCALE 1:50,000

REVISED	QUASH PROPERTY	
	CLAIM LOCATION MAP	
PROJ. No.	SURVEY BY: M. Savell	DATE: Nov/89
M.T.S. 104G/9	DRAWN BY: M. Savell	SCALE: 1:50,000
DWG. No.	<b>NORANDA EXPLORATION</b>	
2	OFFICE: Prince George	

PREVIOUS WORK:

There is no recorded work for the area of the Quash claims. The B.C. Mineral Inventory for N.T.S. 104 G reports several occurrences within a few kilometres of the claims including #33 (Nabs, QC, Boot - Cu, Mo), #35 (SF, Horn - Ag, Pb, Zn, Cu, Ba), #44 (AL - Cu, Au) and #76 (JO, Castle - Cu, Au). Companies known to have conducted exploration programs nearby in the past include Conwest, Amoco, Teck, Silver Standard and Tenajon Silver Corp.

REGIONAL GEOLOGY:

The Klastline Plateau is underlain by Upper Triassic assemblages of marine volcanics including augite-andesite flows, pyroclastics, derived volcanoclastic rocks and related subvolcanic intrusions, siltstone, chert, calcareous siltstone, greywacke and minor limestone. This island arc assemblage has been deformed and subjected to greenschist facies metamorphism. These rocks have been overlain and intruded by felsite and rhyolite of the Upper Cretaceous to Tertiary Sloko Group, and more recently by Pleistocene basic flows.

Within the present criteria of the Terrane concept for origin of the cordillera, the rocks have been assigned to the Stikinia Terrane.

GEOCHEMICAL SURVEY:

In order to locate and evaluate the source of the RGS silt geochem anomaly, a brief program consisting of stream sediment sampling, prospecting and rock chip sampling was undertaken in early September, 1989. Sample locations, descriptions and analytical results are presented on Figure 3. Note that only expenditures made on the Quash 1-12, 16-19 claims are included in the statement of costs, although results of additional sampling are included in the map.

Silts -

A total of 36 silt samples from active stream channels were collected and placed in high wet-strength Kraft paper envelopes and shipped to Vancouver, B.C. for drying and analysis. Of these, 17 were analyzed for Cu, Zn, Pb, Ag, As and Au at Noranda Exploration's AA lab at 1050 Davie Street, Vancouver, B.C. The remaining were analyzed for a 30 element suite plus Au by the ICP method by Acme Analytical Laboratories at 852 E. Hastings Street, Vancouver, B.C. Details of the analytical procedure are given in Appendix III.

All significant drainages emptying into the RGS anomalous streams were sampled. There are several sets of results worthy of note. Copper results are in general high, especially streams draining from the north and east side of the claims, where values range from 103 to 144 ppm. Minor chalcopyrite in quartz veins cutting andesitic rocks has been observed in float in this area. Sample #97371 near the southwest corner of Quash 1 contains 730 ppm Zn, which may reflect an elevated background in the fine black clastic sediments which the stream drains. The most interesting multi-element anomaly was obtained from #104613, which is from a small west flowing stream on the Quash 8 claim. Values of 203 ppm Cu, 57 ppm Pb, 214 ppm Zn, 58 ppm As and 79 ppb Au suggest more prospecting and sampling is warranted in this area. Antimony values were consistently low, between 2 (the detectable limit) and 3 ppm, however, 17 of the samples have not been analyzed.

#### Soils -

A small suite of soil samples was collected along a prominent rusty orange coloured gossan for a length of approximately 350 metres on the Quash 17 claim. This suite of 8 samples were treated and analyzed identically to the silts. Values up to 142 ppm Cu, 26 ppm Pb, 150 ppm Zn, 1.1 ppm Ag, 1107 ppm Ba, 29 ppm As and 16 ppb Au. These results are considered to reflect elevated levels associated with the soil gossan, and more detailed sampling is in order.

#### Rocks -

A total of 21 rock samples were collected and analyzed. These consist entirely of selected grab samples of various lithologies scattered over the property showing visible mineralization and/or alteration.

The most significant result was obtained from #34728 on the Quash 7 claim which contained 2370 ppb Au, 4.4 ppm Ag, 631 ppm Cu, and 365 ppm As. This sample is a pyritic, altered volcanic from the north end of a large soil gossan as described above. Other anomalous gold values from 67 to 280 ppb were also obtained. A quartz-ankerite breccia with sphalerite from the gossan contained 18090 ppm Zn, but only minor Au (45 ppb) and Ag (1.7 ppm). A chalcopyrite bearing quartz stringer network in andesite (#103830) contained 5055 ppm Cu, but insignificant Au and Ag. White, crystalline, barite mineralization observed as float on the Quash 17 claim returned maximum ICP values of only 1532 ppm. This is attributed to the incomplete dissolution of barite with the digestion used.



CONCLUSIONS:

Geochemical anomalies detected on the Quash claims are believed to reflect a mineralizing system which has yet to be fully evaluated. The presence of a large, visible oxidized area containing float boulders of brecciated, pyritized, baritic, quartz-ankerite altered volcanics mineralized with sphalerite and chalcopyrite with gold values up to 2370 ppb on this essentially untested prospect warrant that additional exploration surveys be undertaken.

RECOMMENDATION:

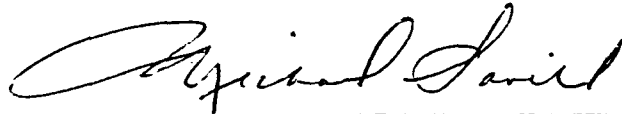
Detailed prospecting and sampling should be completed in the watersheds of anomalous silt results. A small grid should be placed over the gossan at the south end of the claims to facilitate detailed soil geochem, rock sampling and geological surveys.

APPENDIX I

STATEMENT OF QUALIFICATIONS

I, Michael J. Savell of the City of Prince George, Province of British Columbia, do certify that:

1. I am a geologist residing at 3507 Rosia Road, Prince George, British Columbia.
2. I am a graduate of Dalhousie University with a Bachelor of Science (Honors) in Geology (1980).
3. I am a member in good standing of the Geological Association of Canada, Canadian Institute of Mining, Prospector's and Developer's Association and the B.C.-Yukon Chamber of Mines.
4. I presently hold the position of Project Geologist with Noranda Exploration Company, Limited and have been in their employ since 1980.



-----  
Michael J. Savell  
Project Geologist  
Noranda Exploration Company, Limited  
(no personal liability)

APPENDIX II

STATEMENT OF COSTS

REPORT TYPE: GEOCHEMICAL

DATE: NOVEMBER, 1989

a) WAGES:

No. of Days - 4  
Rate per day - \$150.00  
Dates from - Sept. 1 to Sept. 15, 1989  
Total: \$ 600.00

b) FOOD & ACCOMMODATION:

No. of Days - 4  
Rate per day - \$40.00  
Dates from - Sept. 1 to Sept. 15, 1989  
Total: \$ 160.00

c) TRANSPORTATION:

No. of Days - 4  
Rate per day - \$150.00  
Dates from - Sept. 1 to Sept. 15, 1989  
Total: \$ 600.00

d) ANALYSIS:

31 silt, soil, rock 30 element by ICP and Au  
geochem at \$14.50/sample  
Total: \$ 449.50

e) COST OF PREPARATION OF REPORT:

Author \$100.00  
Drafting \$ 50.00  
Typing \$ 50.00  
Total: \$ 200.00

TOTAL COST: \$ 2,009.50

## **ANALYTICAL METHOD**

### DESCRIPTIONS FOR GEOCHEMICAL ASSESSMENT REPORTS

(Revised: 01/86)

The methods listed are presently applies to analyse geological materials by the Noranda Geochemical Laboratory at Vancouver. (March, 1984).

#### Preparation of Samples

Sediments and soils are dried at approximately 80°C and sieved with a 80 mesh nylon screen. The -80 mesh (0.18 mm) fraction is used for analysis.

Rock specimens are pulverized to -120 mesh (0.13 mm). Heavy mineral fractions (panned samples) are analysed in its entirety, when it is to be determined for gold without further sample preparation. See addendum.

#### Analysis of Samples

Decomposition of a 0.200 g sample is done with concentrated perchloric and nitric acid (3:1), digested for 5 hours at reflux temperature. Pulps of rock or core are weighed out at 0.2 g or less depending on the matrix of the rock, and twice as much acid is used for decomposition than that is used for silt or soil.

The concentrations of Ag, Cd, Co, Cu, Fe, Mn, Mo, Ni, Pb, V and Zn (all from the group A elements of the fee schedule) can be determined directly from the digest (dissolution) with an atomic absorption spectrometer (AA). A Varian-Techtron Model AA-5 or Model AA-475 is used to measure elemental concentrations.

#### Elements Requiring Specific Decomposition Method

**Antimony - Sb:** 0.2 g sample is attached with 3.3 mL of 6% tartaric acid, 1.5 mL conc. hydrochloric acid and 0.5 mL of conc. nitric acid, then heated in a water bath for 3 hours at 95°C. Sb is determined directly from the acid solution with an AA-475 equipped with electrodeless discharge lamp (EDL).

**Arsenic - As:** 0.2 - 0.4 g sample is digested with 1.5 mL of 70% perchloric acid and 0.5 mL of conc. nitric acid. A Varian AA-475 equipped with an As-EDL measures the arsenic concentration of the digest.

**Barium - Ba:** 0.1 g sample is decomposed with conc. perchloric, nitric and hydrofluoric acid. Atomic absorption using a nitrous oxide-acetylene flame determines Ba from the aqueous solution.

**Bismuth - Bi:** 0.2 g - 0.3 g is digested with 2.0 mL of perchloric 70% and 1.0 mL of conc. nitric acid. Bismuth is determined directly from the digest into the flame of the AA instrument c/w EDL.

**Gold - Au:** 10.0 g sample (Pan-concentrates see below) is digested with aqua regia (1 part nitric and 3 parts hydrochloric acid). Gold is extracted with Methyl iso-Butyl ketone (MIBK) from the aqueous solution. Gold is determined from the MIBK solution with flame AA.

**Magnesium - Mg:** 0.05 g - 0.10 g sample is digested with 4 mL perchloric/nitric acid (3:1). An aliquot is taken to reduce the concentration to within the range of atomic absorption. The AA-475 with a nitrous oxide flame determines Mg from the aqueous solution.

**Tungsten - W:** 1.0 g sample sintered with a carbonate flux and thereafter leached with water. The leachate is treated with potassium thiocyanate. The yellow tungsten thiocyanate is extracted into tri-n-butyl phosphate. This permits colourimetric comparison with standards to measure tungsten concentration.

**Uranium - U:** An aliquot, taken from a perchloric-nitric (3:1) decomposition, usually from the multi-element digestion, is diluted with water and a phosphate buffer. This solution is exposed to laser light, and the luminescence of the uranyl ion is quantitatively measured on the UA-3 (Scintrex).

LOWEST VALUES REPORTED IN PPM

Ag - 0.2	Mn - 20	Zn - 1	Au - 0.1 (10 ppb)
Cd - 0.2	Mo - 1	Sb - 1	W - 2
Co - 1	Ni - 1	As - 1	U - 0.1
Cu - 1	Pb - 1	Ba - 10	
Fe - 100	V - 10	Bi - 1	

APPENDIX IV

JSkeut (MS)

GEOCHEMICAL ANALYSIS CERTIFICATE

ICP - .500 GRAM SAMPLE IS DIGESTED WITH 3ML 3-1-2 HCL-HNO3-H2O AT 95 DEG. C FOR ONE HOUR AND IS DILUTED TO 10 ML WITH WATER. THIS LEACH IS PARTIAL FOR MN PB SR CA P LA CR HG BA TI B W AND LIMITED FOR NA K AND AL. AU DETECTION LIMIT BY ICP IS 3 PPM. - SAMPLE TYPE: P1 SOIL P2 SILT P3 TALUS PINES P4-P5 ROCK AU\* ANALYSIS BY ACID LEACH/AA FROM 10 GN SAMPLE.

DATE RECEIVED: SEP 13 1989 DATE REPORT MAILED: Sept 22/89 SIGNED BY: C. Long, D. TOYE, C. LEONG, J. WANG; CERTIFIED B.C. ASSAYERS

Noranda Exploration Co. Ltd. PROJECT 8909-051 240 File # 89-3681 Page 1

Table with columns for elements (Mo, Cu, Pb, Zn, Ag, Ni, Co, Mn, Fe, As, U, Au, Tb, Sr, Cd, Sb, Bi, V, Ca, P, La, Cr, Hg, Ba, Tl, B, Al, Na, K, W, Au\*) and rows for sample IDs (34731, 34732, 34733, 34734, 34735, 34736, 34737, 34738, STD C/AU-S) with corresponding concentration values in PPM and %.

RECEIVED SEP 28 1989

Copy to Mike file

SAMPLE#	Mo PPM	Cu PPM	Pb PPM	Zn PPM	Ag PPM	Hg PPM	Co PPM	Mn PPM	Fe %	As PPM	U PPM	Au PPM	Th PPM	Sr PPM	Cd PPM	Sb PPM	Bi PPM	V PPM	Ca %	P %	La PPM	Cr PPM	Hg %	Ba PPM	Ti %	B PPM	Al %	Na %	K %	W PPM	Au* PPB
103811	1	119	18	135	.2	19	17	501	4.75	21	5	ND	1	83	1	2	3	44	2.61	.129	6	10	.94	277	.01	11	1.98	.01	.17	1	5
103812	1	104	13	117	.1	17	16	417	4.31	18	5	ND	1	105	1	2	3	42	5.41	.122	6	9	.93	226	.01	7	1.85	.01	.16	1	7
103813	1	103	13	117	.1	17	17	600	4.97	16	5	ND	1	64	1	2	2	52	1.81	.130	8	11	1.02	205	.01	15	2.02	.01	.14	1	2
103814	2	119	21	132	.1	19	21	521	5.03	22	5	ND	1	66	1	3	2	51	1.56	.143	10	11	1.07	168	.01	7	2.03	.01	.14	1	1
103815	2	116	19	157	.1	27	23	879	5.81	25	5	ND	1	42	1	2	1	58	.81	.131	14	15	1.17	219	.05	9	2.10	.02	.16	1	5
103817	1	124	17	129	.1	30	24	1612	5.96	13	5	ND	1	36	1	2	2	89	.72	.127	22	26	1.45	241	.15	3	2.79	.03	.13	1	2
103819	1	30	9	133	.1	17	28	1418	6.76	9	5	ND	1	31	1	2	2	113	.76	.101	12	34	2.49	161	.22	6	2.94	.06	.13	1	6
104523	1	109	13	170	.1	48	25	1444	5.62	14	5	ND	1	31	1	2	3	106	.60	.108	20	39	1.86	222	.20	7	2.89	.03	.09	1	6
104524	1	113	14	141	.1	35	23	1224	6.32	12	5	ND	2	30	1	2	3	99	.61	.122	20	33	1.56	312	.16	9	2.93	.03	.12	1	9
104525	1	144	18	162	.1	20	24	1581	6.25	17	5	ND	1	53	1	2	3	67	.65	.142	13	10	.93	522	.03	10	1.97	.01	.14	1	5
104569	2	134	21	126	.2	32	25	1157	6.16	18	5	ND	1	32	1	3	2	73	.68	.133	17	19	1.53	166	.06	8	2.42	.02	.11	1	6
104590	1	36	17	140	.1	28	20	1239	6.31	13	5	ND	1	93	1	2	2	107	.73	.127	13	18	1.22	274	.09	9	1.91	.01	.10	1	10
104551	2	59	15	147	.1	43	18	965	5.56	17	5	ND	2	60	1	2	3	118	1.37	.079	23	36	1.18	89	.36	5	2.95	.03	.06	1	8
104611	1	96	16	153	.1	17	20	1941	6.13	21	5	ND	1	52	1	2	2	65	.60	.122	12	12	.75	301	.04	14	1.78	.02	.14	1	3
104612	2	138	21	192	.2	24	25	2730	6.57	37	5	ND	1	45	1	2	2	61	.67	.131	12	11	.83	409	.04	5	2.03	.01	.11	1	23
104613	4	205	57	214	.3	38	30	1714	6.31	58	5	ND	2	54	1	2	2	62	.53	.123	27	22	1.33	208	.08	6	2.14	.02	.10	1	79
34725	1	75	12	145	.1	74	27	1913	8.02	11	5	ND	2	32	1	2	2	161	.61	.100	19	49	2.25	109	.39	6	2.51	.04	.07	1	3
34727	2	93	28	188	.5	46	23	1395	6.31	27	5	ND	2	54	2	3	2	96	.66	.115	20	34	1.51	315	.19	7	2.50	.03	.11	1	16
34729	2	104	28	211	.5	35	23	1625	6.21	22	5	ND	1	45	2	2	2	73	.61	.142	17	23	1.09	319	.10	8	1.72	.02	.12	1	1
STD C/AD-5	18	62	44	132	6.7	68	30	1013	4.06	41	19	8	38	48	18	16	23	59	.49	.089	38	52	.89	176	.07	34	1.89	.06	.13	13	47



SAMPLE#	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P	La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Au*
	PPM	PPM	PPM	PPM	PPM	PPM	PPM	PPM	%	PPM	PPM	PPM	PPM	PPM	PPM	PPM	PPM	PPM	%	%	PPM	PPM	%	PPM	%	PPM	%	%	%	PPM	PPB
34728	11	631	59	86	4.4	6	15	826	15.55	365	5	ND	3	15	1	3	6	84	.23	.096	5	24	1.22	107	.01	5	3.04	.01	.18	1	2370
34730	1	52	4	28	.4	8	10	162	3.80	36	5	ND	1	17	1	2	2	72	.21	.120	8	29	.78	59	.01	5	1.43	.02	.19	1	280
103826	1	63	4	62	.2	20	20	646	4.94	50	5	ND	1	42	1	2	2	122	2.04	.117	7	31	2.03	86	.01	8	2.67	.03	.07	1	8
103827	1	80	4	63	.1	13	18	1216	4.46	2	5	ND	1	27	1	2	2	121	2.39	.081	6	17	2.62	48	.18	13	2.28	.03	.07	1	5
103828	1	10	7	96	.3	8	16	1948	4.53	8	5	ND	1	368	1	2	2	23	27.57	.005	3	1	2.26	59	.01	2	.24	.01	.03	1	1
103829	4	24	4	35	.4	8	4	279	1.25	8	5	ND	1	29	1	2	2	7	1.07	.025	4	4	.09	25	.01	9	.19	.01	.08	1	67
103830	1	5055	7	61	.6	10	16	559	4.69	2	5	ND	1	18	1	2	2	83	1.01	.063	5	22	1.66	18	.01	3	2.12	.02	.05	1	12
103831	1	419	2	72	.2	18	24	698	4.74	2	5	ND	1	79	1	2	2	74	4.64	.073	5	15	1.41	62	.01	9	2.11	.01	.18	1	4
104521	3	86	7	10	.7	14	7	1284	1.38	20	5	ND	2	79	1	3	3	14	5.14	.034	8	6	.28	19	.01	5	.45	.01	.05	1	19
104522	3	62	6	44	.3	1	5	147	3.42	2	5	ND	8	14	1	2	2	47	.08	.067	16	9	1.21	237	.01	10	1.44	.02	.12	1	8
104584	1	6	2	7	.3	4	5	331	1.14	2	5	ND	1	924	1	2	2	19	1.84	.003	2	5	.19	563	.01	5	.34	.01	.01	1	1
104585	1	24	3	52	.2	12	18	1657	5.17	2	5	ND	2	183	1	2	2	90	11.68	.064	7	11	1.75	1272	.01	7	1.72	.01	.11	1	2
104586	1	140	2	49	.1	11	12	496	2.96	2	5	ND	1	101	1	2	2	93	2.41	.047	3	17	1.36	1532	.06	6	1.37	.02	.02	1	1
104587	1	29	2	904	.6	2	5	2003	1.99	7	5	ND	1	259	6	2	2	16	21.81	.008	8	2	1.23	78	.01	5	.25	.01	.02	1	1
104588	1	17	6	25	.3	2	4	2003	2.23	7	5	ND	1	492	1	2	2	6	34.11	.002	2	1	2.67	37	.01	8	.04	.01	.01	1	1
104614	2	24	38	1692	1.2	11	8	4574	6.23	21	5	ND	3	179	14	2	2	22	17.00	.021	24	4	4.88	148	.01	2	.37	.01	.06	1	1
STD C/AU-R	18	60	40	133	6.6	68	30	1011	4.16	45	18	7	39	49	18	15	21	59	.50	.090	39	52	.91	175	.07	32	2.06	.06	.14	13	480

SAMPLE	No PPM	Cu PPM	Pb PPM	Zn PPM	Ag PPM	Ni PPM	Co PPM	Mn PPM	Fe %	As PPM	U PPM	Au PPM	Th PPM	Sr PPM	Cd PPM	Sb PPM	Bi PPM	V PPM	Ca %	P %	La PPM	Cr PPM	Mg %	Ba PPM	Ti %	B PPM	Al %	Na %	K %	V PPM	Au <sup>+</sup> PPM
104615	2	33	4	26	.5	3	2	462	.60	17	5	ND	8	23	1	2	2	3	.51	.003	12	35	.08	910	.01	10	.29	.01	.14	2	28
104616	1	59	2	2	.2	1	1	88	.10	3	5	ND	1	839	1	2	2	1	.02	.001	2	1	.01	580	.01	12	.02	.01	.01	1	6
104617	2	75	8	11	.4	6	1	308	.74	44	5	ND	7	89	1	2	2	1	.42	.001	13	39	.06	167	.01	6	.26	.01	.12	3	27
104618	2	275	15	18090	1.7	8	14	1445	3.28	88	5	ND	1	266	294	2	2	33	4.19	.098	2	3	.84	12	.01	8	.88	.01	.14	1	45
104619	3	690	5	21	.9	8	6	1171	1.59	8	5	ND	1	24	1	2	3	8	1.80	.038	3	46	.13	511	.01	8	.24	.01	.11	1	24

STD C/AU-R 18 63 44 130 6.9 67 31 1006 4.08 43 22 7 38 49 18 15 21 59 .49 .092 39 55 .89 174 .07 36 2.03 .06 .13 11 480

✓ - ASSAY REQUIRED FOR CORRECT RESULT -

SAMPLE  
No.

Cu

Zn

Pb

Ag

As

PPB  
Au Pg. 2 of 3

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							10
38308	72	150	4	0.2	4		10
38309	58	160	8	0.2	8		10
38310	66	190	14	0.2	8		10
38311	60	190	4	0.2	4		10
38312	70	140	10	0.2	12		10
38313	68	200	8	0.2	8		10
38314	86	210	6	0.2	1		10

SAMPLE  
No.

Cu

Zn

Pb

Ag

As

PPB  
Au Pg. 3 of 3

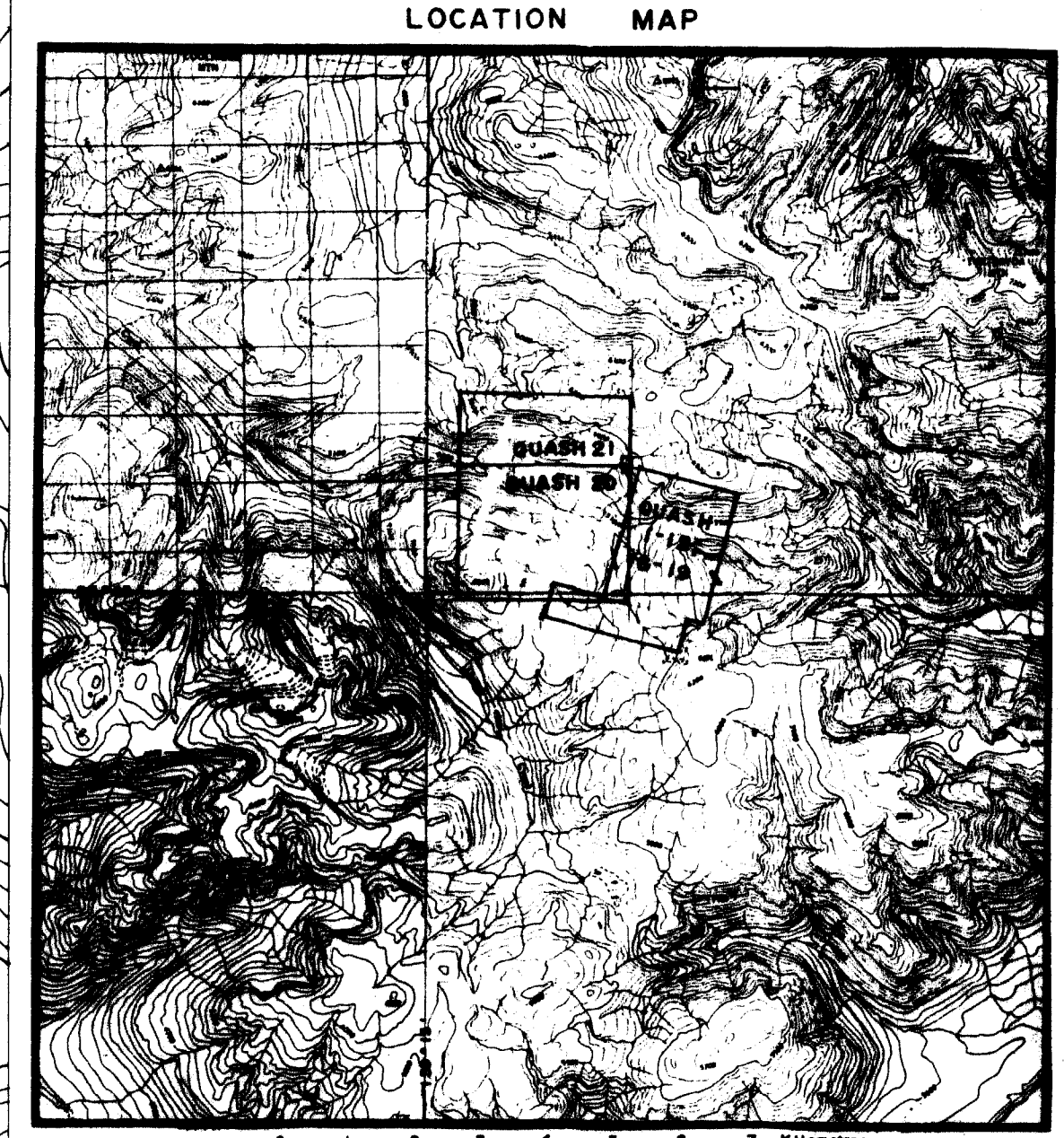
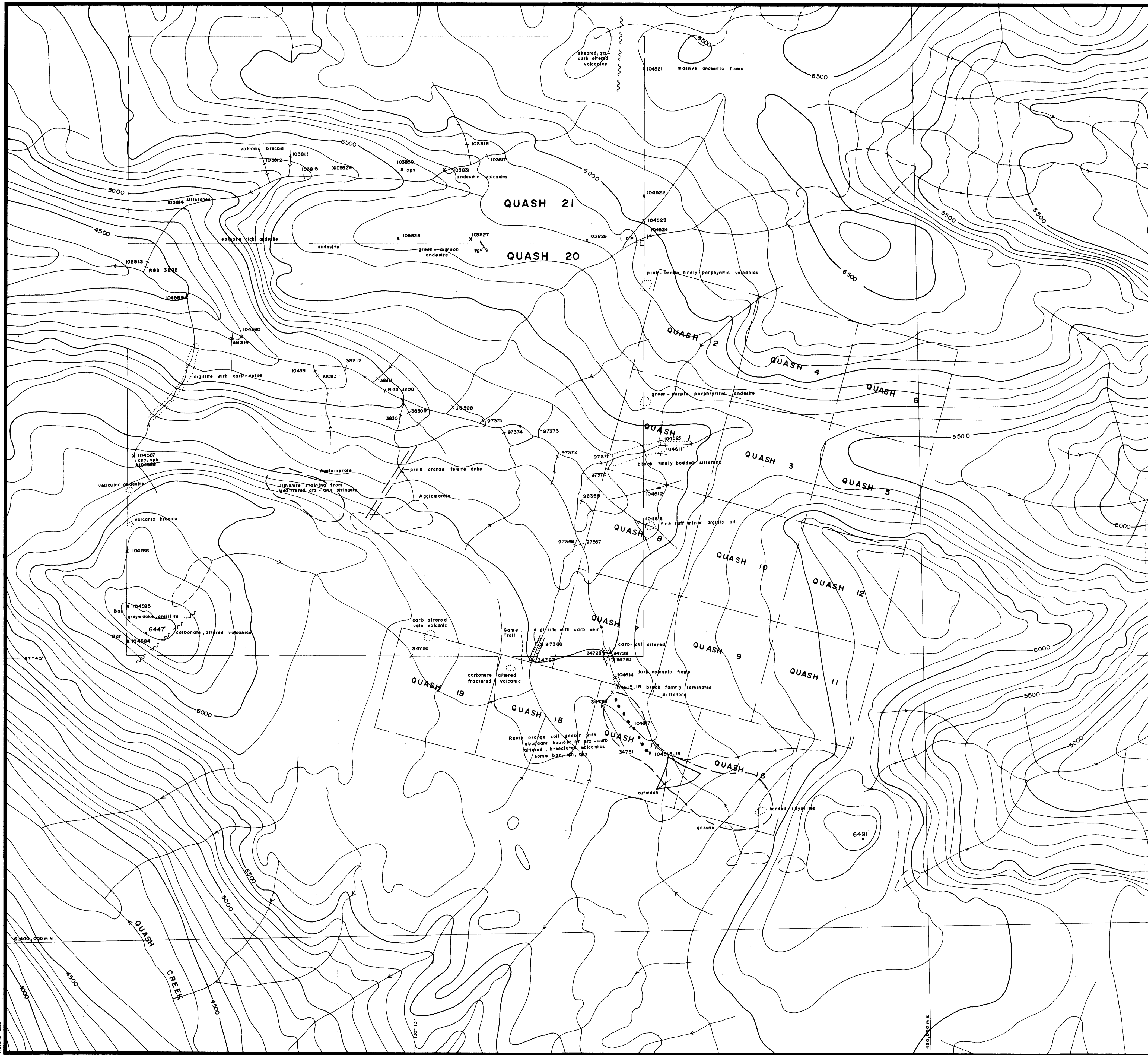
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CHE

SILT

97366	70	180	18	0.4	8	10
97367	72	200	20	0.4	28	10
97368	74	150	10	0.4	24	10
97369	68	170	14	0.2	20	10
97370	74	160	16	0.2	24	10
97371	84	730	6	0.2	4	10
97372	52	170	6	0.2	8	10
97373	100	120	14	0.6	24	10
97374	68	200	12	0.4	16	50
97375	60	170	8	0.4	4	10
35332	38	480	8	0.4	1	10



**LEGEND**

- 104522 Silt Sample Location
- 34734 O Soil " "
- 104522 X Rock " "
- Area of outcrop
- Fault
- bedding, foliation

**ANALYTICAL RESULTS**

SOILS										ROCKS									
SAMPLE NO.	No ppm	Cu ppm	Pb ppm	Zn ppm	Ag ppm	As ppm	Sb ppm	Ba ppm	Au ppb	SAMPLE NO.	No ppm	Cu ppm	Pb ppm	Zn ppm	Ag ppm	As ppm	Sb ppm	Ba ppm	Au ppb
34731	4	108	23	122	0.7	27	2	583	2	34728	11	631	59	86	4.4	385	3	107	2370
34732	2	96	6	90	0.4	15	2	617	6	34729	1	12	4	28	0.4	36	2	58	280
34733	3	128	24	81	0.1	23	2	630	16	103826	1	63	4	62	0.2	50	2	86	8
34734	2	142	13	87	0.6	20	2	1002	5	103827	1	80	4	63	0.3	8	2	48	5
34735	2	142	13	87	0.6	20	2	1107	14	103828	1	10	7	96	0.3	8	2	58	1
34736	2	102	19	111	0.2	14	2	956	3	103829	4	24	4	25	0.4	8	2	35	87
34737	2	102	19	111	0.2	14	2	761	4	103830	1	5055	7	61	0.5	2	2	18	12
34738	2	92	15	150	0.4	21	2	761	4	103831	3	419	2	72	0.2	2	2	4	4
										104521	3	86	7	10	0.3	20	3	19	19
										104522	1	54	3	32	0.3	2	2	237	1
										104584	1	6	2	7	0.3	2	2	563	1
										104585	1	140	2	49	0.1	2	2	1532	1
										104587	1	29	3	914	0.1	2	2	1212	2
										104588	1	17	6	25	0.3	7	2	37	1
										104589	1	24	38	1692	0.2	3	2	148	1
										104615	2	33	4	26	0.5	17	2	910	28
										104616	1	58	2	7	0.2	3	2	580	6
										104617	2	76	8	31	0.4	44	2	167	27
										104618	2	275	15	1800	0.7	88	2	12	45
										104619	3	690	5	21	0.9	8	2	511	24

SILTS										ROCKS									
SAMPLE NO.	No ppm	Cu ppm	Pb ppm	Zn ppm	Ag ppm	As ppm	Sb ppm	Ba ppm	Au ppb	SAMPLE NO.	No ppm	Cu ppm	Pb ppm	Zn ppm	Ag ppm	As ppm	Sb ppm	Ba ppm	Au ppb
34726	1	75	12	143	0.1	11	2	109	3	104588	1	17	6	25	0.3	7	2	37	1
34727	2	93	28	188	0.5	17	3	315	16	104614	1	58	2	7	0.2	3	2	580	6
34728	2	104	28	211	0.5	22	2	319	1	104615	2	33	4	26	0.5	17	2	910	28
38309	72	4	150	0.2	4					104616	1	58	2	7	0.2	3	2	580	6
38309	58	8	160	0.2	8					104617	2	76	8	31	0.4	44	2	167	27
38310	66	14	190	0.2	8					104618	2	275	15	1800	0.7	88	2	12	45
38311	60	4	190	0.2	4					104619	3	690	5	21	0.9	8	2	511	24
38312	70	10	160	0.2	12														
38313	68	8	200	0.2	8														
38314	66	10	160	0.2	12														
37366	70	18	180	0.4	8														
37367	72	20	200	0.4	8														
37368	74	10	150	0.4	24														
37369	68	14	120	0.2	20														
37370	74	16	160	0.2	24														
37371	84	6	730	0.2	24														
37372	52	6	170	0.2	8														
37373	100	14	120	0.2	24														
37374	68	12	200	0.4	16														
37375	60	8	150	0.2	24														
103811	1	119	18	135	0.2	21	2	277	5										
103812	1	104	17	117	0.1	14	2	412	7										
103813	1	103	13	117	0.1	16	2	205	2										
103814	2	119	21	122	0.1	13	2	312	1										
103815	2	116	19	157	0.1	25	2	219	5										
103816	1	124	12	129	0.1	13	2	212	1										
103817	1	90	9	133	0.1	9	2	161	6										
104523	1	109	13	110	0.1	14	2	222	1										
104524	1	124	14	141	0.1	12	2	312	9										
104525	1	144	18	162	0.1	17	2	214	1										
104589	2	134	21	126	0.2	18	3	166	6										
104590	1	16	17	140	0.1	17	2	214	1										
104591	2	59	15	147	0.1	17	2	89	8										
104592	1	96	16	153	0.1	21	2	301	3										
104612	2	138	21	182	0.2	27	2	409	23										
104613	4	205	57	214	0.3	56	2	208	19										



**GEOLOGICAL BRANCH**  
**REVISOR'S REPORT**  
**QUASH CREEK**  
**QUASH CLAIMS 1-12, 16-21**  
**19,444 SAMPLE LOCATIONS**

PROJ. No. 273 SURVEY BY: M.S., R.B., F.S., G.R. DATE: Sept., 1989  
 N.T.S. 1:04G/9 DRAWN BY: S.K.B. SCALE: 1:10,000  
 DWG. No. **NORANDA EXPLORATION**  
 FIG. 3 OFFICE: PRINCE GEORGE, B.C.