



ASSESSMENT REPORT  
ON  
2011 GEOCHEMICAL ROCK SAMPLING PROGRAM,  
KATHLEEN MOUNTAIN PROPERTY  
SOUTHERN BRITISH COLUMBIA

Claims involved: 664163, 664172, 664176 and 850205

SIMILKAMEEN MINING DIVISION

NTS 92H.16E

**BC Geological Survey  
Assessment Report  
32760**

Approximate coordinates of the centre of the property:

Latitude: 49°45' N; Longitude: 120°08' W  
UTM: 5515095N, 705830E (NAD83, Zone 10)

Owner: Killdeer Minerals Inc., Vancouver

Operator: Killdeer Minerals Inc., Vancouver

[SOW 5124975]

By

Krzysztof Mastalerz, Ph.D., P.Geo.

Submitted: February 13<sup>th</sup>, 2012

32,760

GEOLOGICAL SURVEY BRANCH  
ASSESSMENT REPORT



Ministry of Energy and Mines  
BC Geological Survey

Assessment Report  
Title Page and Summary

TYPE OF REPORT [type of survey(s)]: Rock geochemistry, prospecting

TOTAL COST: 7,007.07

AUTHOR(S): Krzysztof Mastalerz

SIGNATURE(S):

NOTICE OF WORK PERMIT NUMBER(S)/DATE(S):

YEAR OF WORK: 2011

STATEMENT OF WORK - CASH PAYMENTS EVENT NUMBER(S)/DATE(S): 5124975 - Nov 14, 2011

PROPERTY NAME: Kathleen Mountain

CLAIM NAME(S) (on which the work was done): 664163, 664172, 664176

COMMODITIES SOUGHT: gold, silver, base metals

MINERAL INVENTORY MINFILE NUMBER(S), IF KNOWN: 092HNE034

MINING DIVISION: Similkameen

NTS/BCGS: 92H.16H

LATITUDE: 49 ° 45 ' " LONGITUDE: 120 ° 08 ' " (at centre of work)

OWNER(S):

1) Killdeer Minerals Inc.

2)

MAILING ADDRESS:

325-744 West Hastings St.

Vancouver, BC, V6C1A5

OPERATOR(S) [who paid for the work]:

1) Killdeer Minerals Inc.

2)

MAILING ADDRESS:

325-744 West Hastings St.

Vancouver, BC, V6C1A5

PROPERTY GEOLOGY KEYWORDS (lithology, age, stratigraphy, structure, alteration, mineralization, size and attitude):

Triassic(?) to Eocene; granitoids - granodiorite, quartz-feldspar porphyry, mafic-to-intermediate dykes, intrusive, batholith;  
propylitic, chlorite, pyrite, silicification, Fe-Mn oxides, galena; mineralization consists of disseminations and fracture fillings

REFERENCES TO PREVIOUS ASSESSMENT WORK AND ASSESSMENT REPORT NUMBERS: 3643, 4896, 5932, 9308, 12790, 14556

TYPE OF WORK IN THIS REPORT	EXTENT OF WORK (IN METRIC UNITS)	ON WHICH CLAIMS	PROJECT COSTS APPORTIONED (incl. support)
<b>GEOLOGICAL (scale, area)</b>			
Ground, mapping _____			
Photo interpretation _____			
<b>GEOPHYSICAL (line-kilometres)</b>			
Ground			
Magnetic _____			
Electromagnetic _____			
Induced Polarization _____			
Radiometric _____			
Seismic _____			
Other _____			
Airborne _____			
<b>GEOCHEMICAL (number of samples analysed for...)</b>			
Soil _____			
Silt _____			
Rock 54 _____		664163, 664172, 664176	6,000.00
Other _____			
<b>DRILLING (total metres; number of holes, size)</b>			
Core _____			
Non-core _____			
<b>RELATED TECHNICAL</b>			
Sampling/assaying _____			
Petrographic _____			
Mineralographic _____			
Metallurgic _____			
PROSPECTING (scale, area) _____		664163, 664172, 664176	1,007.07
<b>PREPARATORY / PHYSICAL</b>			
Line/grid (kilometres) _____			
Topographic/Photogrammetric (scale, area) _____			
Legal surveys (scale, area) _____			
Road, local access (kilometres)/trail _____			
Trench (metres) _____			
Underground dev. (metres) _____			
Other _____			
<b>TOTAL COST:</b>			<b>7,007.07</b>

## TABLE OF CONTENTS

	Page
TABLE OF CONTENTS	2
LIST of FIGURES, TABLES and APPENDICES	3
1.0 INTRODUCTION	4
1.1 Location and Access	4
1.2 Physiography, Vegetation and Climate	4
1.3 Property Definition and Claim Information	6
1.4 History	6
1.5 Summary of 2011 Rock Sampling Program	9
2.0 TECHNICAL DATA AND INTERPRETATION	10
2.1 Regional Geology	10
2.2 Property Geology	10
2.3 Mineralization Types	12
2.4 2011 Rock Sampling Program	12
3.0 CONCLUSIONS and RECOMMENDATIONS	17
4.0 REFERENCES	18
5.0 WORK COST STATEMENT	19
6.0 CERTIFICATE	20
APPENDICES	21

## FIGURES

- FIGURE 1. Location Map, 1:500,000
- FIGURE 2. Claim map, 1:50,000
- FIGURE 3. Regional Geology, 1:150,000
- FIGURE 4a. Rock Sample Location Map – Northern Part of the Sampled Area, 1 : 5,000
- FIGURE 4b. Rock Sample Location Map – Southern Part of the Sampled Area
- FIGURE 4c. Rock Sample Location Map – Western Part of the Sampled Area, 1 : 5,000

## TABLES in TEXT

- TABLE 1. Claim Status of the Kathleen Mtn. Property
- TABLE 2. Significant Results of the Rock Sampling Program

## APPENDICES

- APPENDIX 1 – Rock Sample Locations and Descriptions
- APPENDIX 2 – Rock Sample Analyses – Certified Results

ASSESSMENT REPORT ON  
2011 GEOCHEMICAL ROCK SAMPLING PROGRAM,  
KATHLEEN MOUNTAIN PROPERTY  
SOUTHERN BRITISH COLUMBIA  
BCGS 092H.080

## 1. INTRODUCTION

The Kathleen Mtn. property includes showings of polymetallic veins (Ag-Pb-Zn+/-Au) and carries some porphyry-type potential for Cu +/- Mo +/- Au. The property is located in the Similkameen Mining Division, in southern British Columbia (Fig. 1). The claim group of the property consists of four contiguous mineral claims (Fig. 2) located 5-9 km west of Kathleen Mountain along the watershed divide between Trout Creek (south) and Spring Creek (north), Central Interior. The property has been owned by Killdeer Minerals Inc. of Vancouver since early November 2010.

### 1.1 Location and Access

The Kathleen Mtn. property is located 5-9 kilometres west-southwest of the peak of Kathleen Mountain, some 25 kilometres west of the town of Peachland, southern British Columbia (Figs. 1 and 2). The claims cover the drainage area of the middle portion of Trout Creek and some of the northern tributaries to Kathleen Creek. The property is centered approximately at latitude 49°45' North and longitude 120°08' West on BCGS map sheet 092H.080. The property is approximately 793 hectares in area.

Access to the property is provided by a system of gravel roads (approximately 10 km) from the village of Osprey Lake, some 40 km NE of Princeton (Fig. 2). Approximately 35 km paved and then gravel road from Summerland and/or Peachland on Okanagan Lake leads almost to the eastern boundary of the property. There are several logging roads which provide access to most of the northern part of the property. The claims are accessible year-round except in heavy snow.

### 1.2 Physiography, Vegetation and Climate

The Kathleen property is located in the Central Interior region. Topography of the area is moderately diversified and includes gently to moderately steep slopes, as well as broad to narrow, incised valleys. Elevations on the property range from 1100-1200 metres a.s.l. in its southern and central parts through approximately 1400-1700 metres a.s.l. on the remaining area. Present day slopes of the eastern part of the property have been locally strongly modified by dozer trenching.

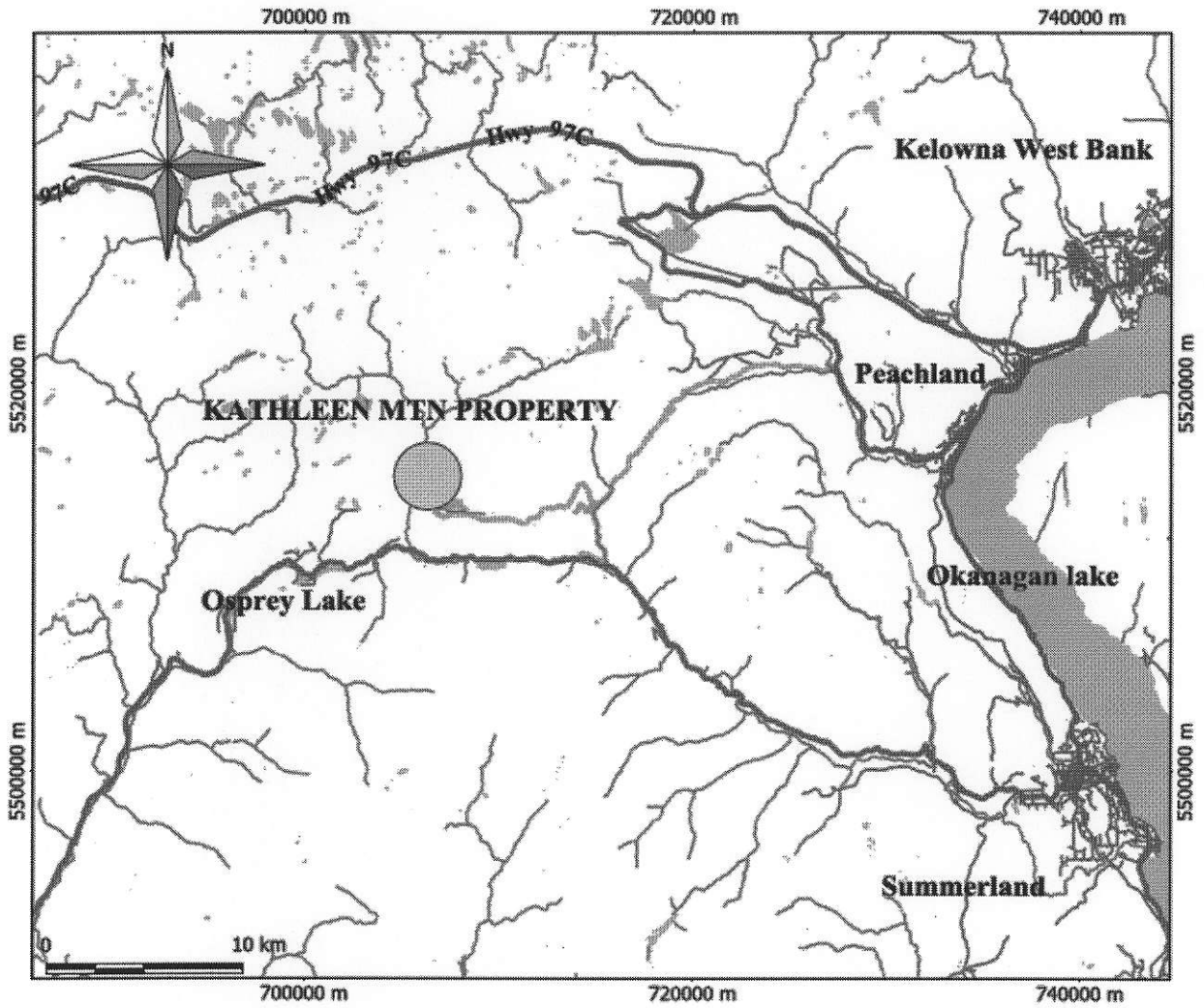


Fig. 1. Location Map. Main access routes to the Kathleen Mountain property are marked in orange; bar-scale provided for reference.

The predominant part of the area is covered with glacial till and gravels with bedrock exposure being limited to ridges and some steeper slopes. The northern part of the property has been lately extensively logged and is in part completely deprived of arborescent vegetation. On the remaining part of the property secondary and/or tertiary growth of coniferous and deciduous trees prevails.

Daily summer temperatures on the property average 20-30°C. Winter conditions are expected from the end of October to April with moderate snowfall and temperatures averaging -10°C to -20°C in January/February. The northern part of the area may occasionally experience relatively strong winds. The property receives moderate amount of precipitation with the summer season being predominantly dry and with occasionally heavy snow-fall in winter.

### 1.3 Property Definition and Claim Information

The Kathleen Mountain property is located in the Similkamen Mining Division and comprises four mineral tenures totaling approximately 793 hectares (Fig. 2). Basic claim information is listed in Table 1.

Table 1. Claim status of the Kathleen Mtn. property, Similkameen Mining Division, BCGS 092H.080

<b>Claim Name</b>	<b>Tenure Number</b>	<b>Area* (hectares)</b>	<b>New Good To Date</b>
	664163	438.35	15-Feb-14
	664172	166.95	15-Feb-14
	664176	83.5	15-Feb-14
	850205	104.36	15-Feb-14

\* Listed are area figures for claims reduced in November 2011

Work done by Killdeer in July 2011 was conducted on the claim 664163, 664172 and 664176. Expiry dates listed above are contingent upon acceptance of this assessment report, according to event 5124975 filed on November 14, 2011.

### 1.4 History

Historical reference to geology of the area of Kathleen Mountain claims is very limited. However, the area was obviously subject to relatively intense mechanical trenching as judged from surface disturbance still noticeable in many parts of the property. Regular grids have been established on the property apparently for the purpose of a soil geochemistry and/or ground geophysical survey. A partly caved adit and underground tunnel exist on the property.

An old adit driven on a Cu-Mo showing on the slopes of Mount Kathleen and located on the Disko claims was described by Rice in 1947 (Weymark, 1986). In 1966, Kelpen Mining Corporation Ltd. and then in 1972, Pan Ocean Oil conducted some geological and geochemical surveys near the Disko

claims. In 1972-73, Excel Exploration held mineral claims and conducted geochemical and ground magnetometer surveys on the property (Kelly, 1974). Soil geochemistry resulted in the discovery of several silver and copper anomalies. In 1975, the same company completed 5 diamond drill holes

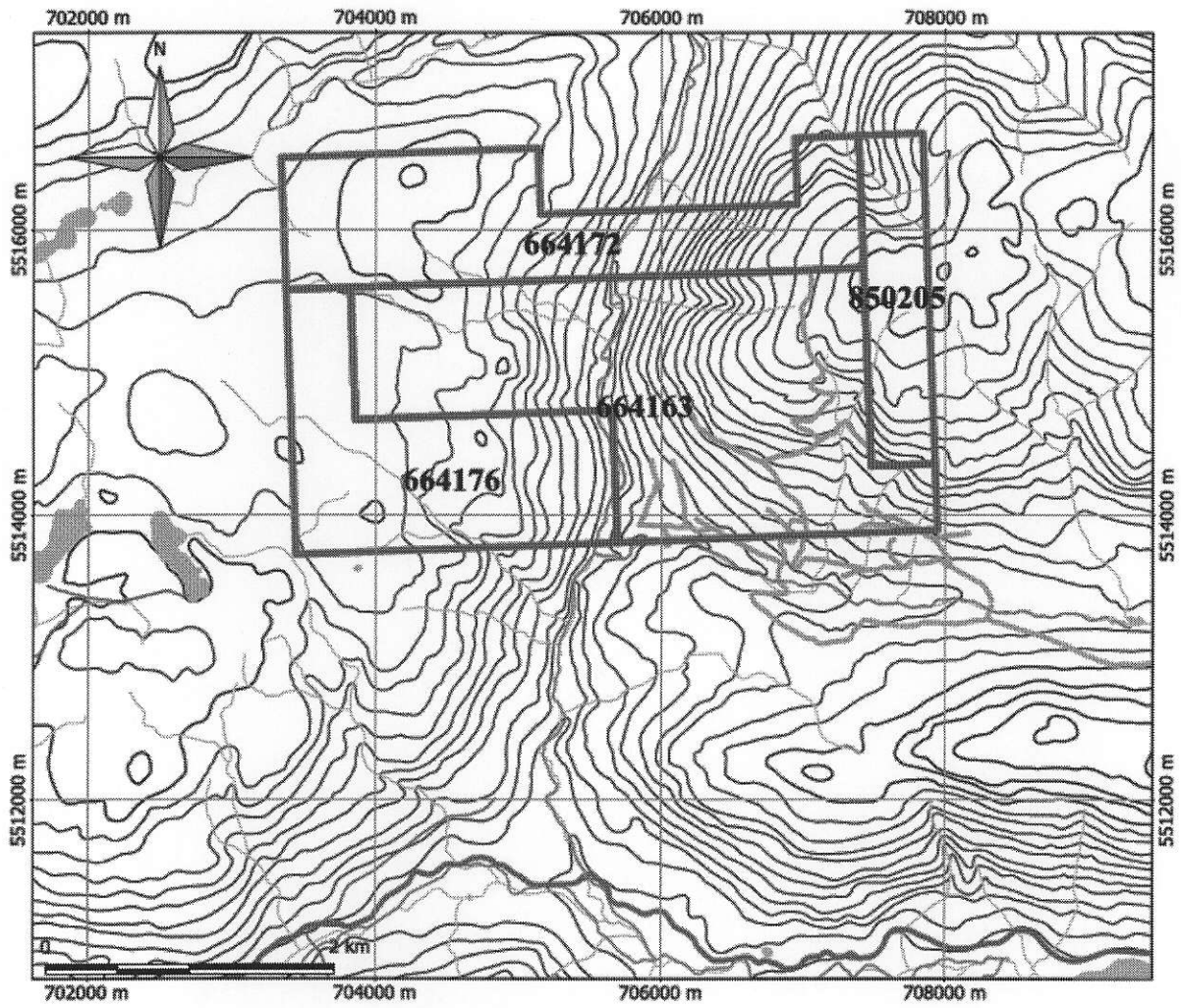


Fig. 2. Kathleen Mountain - Claim Map, linear bar-scale for reference (claim contours before reduction).

located near the Kathleen showing, which returned some intersections with significant gold, silver and copper mineralization (Briden, 1976).

Canadian Nickel Company completed a prospecting, geological mapping and geochemical sampling program in 1981 in order to evaluate the claims. The claims were staked to cover "an epizonal, quartz-feldspar porphyry plug of Eocene age" (*op. cit.* Peto, 1981). Work consisted of geological mapping and prospecting along some 15 kilometres of flagged lines, silt and soil sampling, and detailed geological mapping of old workings.

P. Thomas (1984) reported 8.18 g/t Au assayed from a 2.7 metre-long channel sample and some other significant results from the Disko claims. The limited geological program resulted in assaying of 12 rock samples and in a simplified map of the area of known mineralization and good rock exposure near the Kathleen showing. However, the documentation of this sampling and mapping program is of poor quality and does not allow for definite determination of the sampling locations.

In 1985, two shallow BQ-size diamond drill holes were completed on the property (Weymark, 1986). The first drill-hole, 150 feet deep, intersected anomalously high gold and silver mineralization between 60 and 90 feet deep. The second drill hole, 450 feet deep, intersected few intervals which were characterized by strongly anomalous gold and silver contents. The interval from 200 to 250 feet of depth returned consistently significant gold values from 1100 to 4400 ppb. Only gold and silver were assayed during this program.

#### 1.5. Summary of 2011 Rock Sampling Program

In late July 2011 Killdeer conducted a reconnaissance rock sampling program on minerals claims 664163, 664172 and 664176 of the Kathleen Mountain property. During the program, 26 rock samples (predominantly grab samples) were collected in the western part of the property (Appendix 1). This set of samples was designed to verify existence of western continuation of soil and rock sampling anomalies near the Kathleen showing. The program resulted in few elevated gold, silver and base metals values. The results appear to indicate existence of weak, western continuation of some of the mineralization zones encountered by Killdeer personnel in 2010 on the eastern part of the property.

## 2. TECHNICAL DATA AND INTERPRETATION

### 2.1 Regional Geology

The Kathleen Mountain property is located in the southern part of the Central Interior region of British Columbia. The bedrock is dominated by large-scale plutonic bodies of granitoid character and minor other intrusives of variable composition. The batholithic intrusion has been emplaced into and beneath the roof pendant of basaltic and calc-alkaline volcanics and volcanoclastics of the Nicola Group (Upper Triassic), which are preserved only locally. Geological structure of the region is still uncertain and a formal nomenclature not established, with different names still being used for the same rock formations (*see references in this report*). Much further systematic work on geology has to be conducted and nomenclature to be formalized for satisfactory discussion of regional geological features of the area.

Some contacts between older plutonic rocks tentatively identified as of Jurassic and/or Triassic age and younger, smaller-scale intrusives of probably Tertiary age apparently favored hydrothermal alteration featuring extensive chloritization and localized mineralization of the host granodiorite in the eastern part of the Kathleen Mountain property. There occur several Pb-Zn +/-Ag showings nearby the contacts. The structural framework appears to be dominated by fracturing and minor shearing, both apparently provided plumbing systems for hydrothermal solutions.

The regional geology in Fig. 3 is reproduced from a BCGS geological map which is posted on the MapPlace website for reference to regional geology.

### 2.2 Property Geology

Bedrock of the predominant part of the Kathleen property is concealed under a moderately thick to thin layer of Quaternary deposits, mainly glacial till and sand/gravel layers. Natural outcrops of bedrock occur along ridges and at some steeper slopes, and account for a small fraction, probably less than 5-10% of the property area. Significant part of the rock exposure in the eastern part of the property resulted from previous mechanical trenching and blasting.

A predominant part of the property is underlain by variably chloritized granodiorites which constitute the southern portion of the Early and/or Middle Jurassic Pennask batholith. The large-scale granodiorite body is cut by subordinate intrusion (stock or plug) of the Early Tertiary Otter granitoid which displays a porphyritic (quartz-feldspar) character. The batholith is cut by several dark-colored dykes of mafic(?), gabbroic and intermediate composition. The most prominent dykes attain some 4-5 metres in width and can be traced for about 100 metres (Thomas, 1984). Several smaller dykes were exposed by trenching in the eastern part of the property.

The proper petrographic descriptions of the granitoid bodies and dykes have not been established since there were not conducted any petrographic studies of these rocks. Brief macroscopic

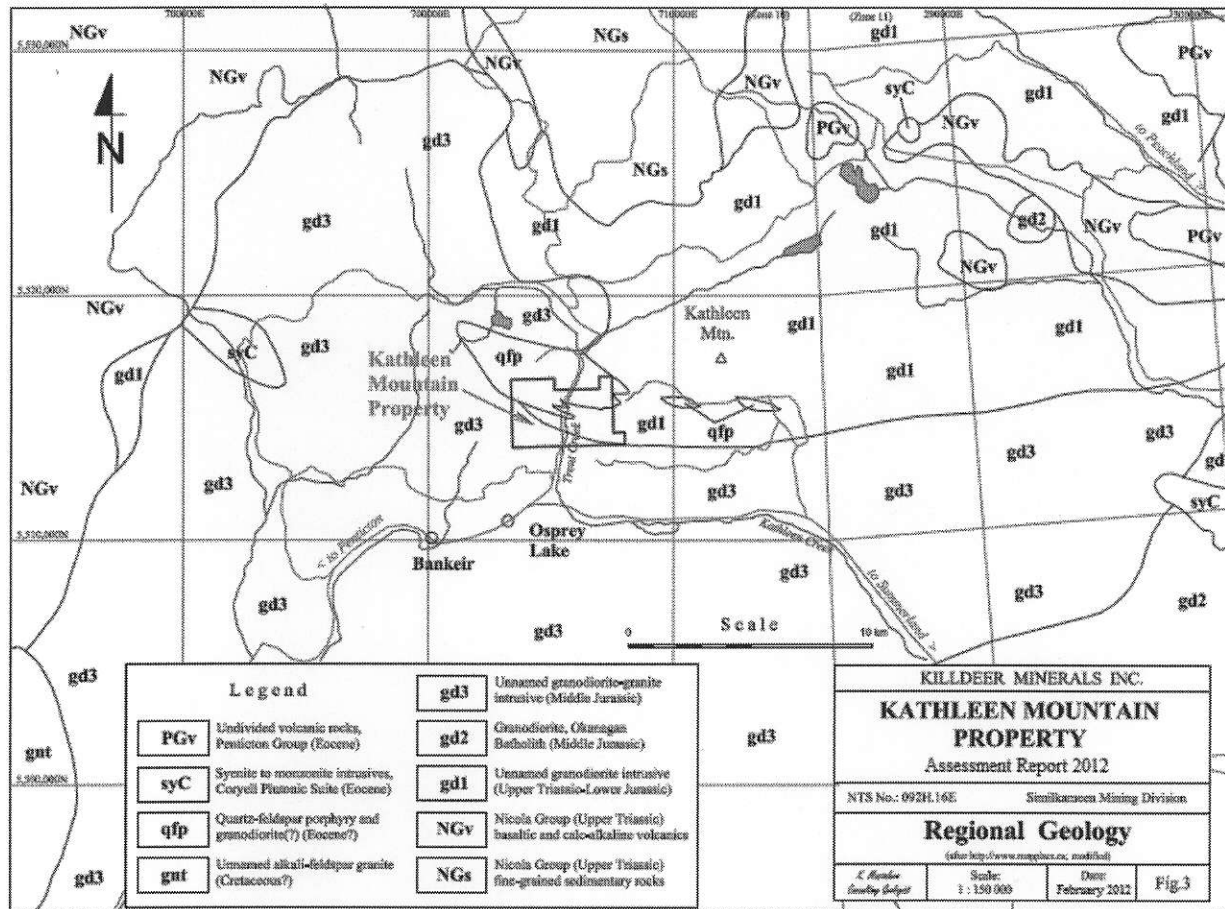


Fig. 3. Regional Geology Map.

examination indicates moderate compositional variability (variable contents of hornblende and biotite) of the primary rock formations, as well as a moderately wide range of alteration products including silicification, chloritization, clay alteration and other effects of propylitic alteration. The proper definition of the rock composition requires some microscope examination of the rock samples from the property. The rocks display localized strong fracturing and oxidation in the form of common manganese-iron encrustations and replacements.

Structural features of the rock formations which underlie the Kathleen Mountain property is rather poorly known due to lack of systematic geological mapping. The area surveyed during the Killdeer 2010 reconnaissance program is characterized by relatively strong NNW-SSE tectonic fabric which is represented by steep fractures and localized, preferred silicification.

### 2.3 Mineralization types

The Kathleen Mountain showing occurs in chloritized granodiorite of the southern part of the Pennask batholith (Early Jurassic?), near the contact of the Early Tertiary plug/stock of the Otter intrusion. The granodiorite is cut by a steep zone of fracturing which strikes NNW-SSE and carries abundant mineralization of pyrite, minor chalcopyrite and subordinate chalcocite (K. Mastalerz, 2011) in a gangue of siderite, magnetite, pyrolusite, calcite and quartz. A channel sample which returned 8.18 g/t Au over 2.7 metre was reported by Thomas (1984), however, the sampled interval was apparently running along strike of the mineralized structure as concluded from the field inspection by the author of this report. Field observations indicate that the showing was exposed by blasting and trenching some time ago but this fact is not recorded in an existing documentation available to author.

Carbonate-quartz veins with sulfide mineralization of pyrite with minor sphalerite and galena occur nearby the main Kathleen showing. Minor gold values are associated with the mafic(?) dykes and are, most probably, associated with rather sparse pyrite mineralization (Thomas, 1984).

A variably silicified shear zone which strikes from NNW toward SSE occurs along secondary ridge, some 100-200 metres SW of the main Kathleen showing. An approximately 60 metre-long adit was excavated along this zone without intersecting significant mineralization. However, historical sampling of the dump material returned elevated concentrations of gold, silver and copper (Thomas, 1984).

Locally, near the main Kathleen showing, occur some stringers and veins of milky quartz enriched in molybdenite in the Pennask granodiorite.

### 2.4. 2011 Rock Sampling Program

In July 2011 Killdeer conducted a reconnaissance rock sampling program on the Kathleen Mountain property. During the program, 26 rock samples (predominantly grab samples; Appendix 1) were collected in the western part of the property (Fig. 4). This set of samples was designed to check for the western extensions of the historical mineralization in the area near Kathleen showing, which is

known from numerous soil anomalies, old trenching, underground workings and drilling. The program resulted in few elevated gold, silver and base metals values and appears to prove an existence of western extensions of some of the previously encountered mineralization zones. However, the intensity of mineralization appears to be significantly subdued toward the west.

The complete set of sample descriptions and corresponding analytical geochemical results from the sampling program are presented in Appendices 1 and 2, respectively. Appendix 1 provides UTM coordinates of the sample locations. Sample locations are also shown on map (Fig. 4). Analytical procedures applied to rock samples are described in Appendix 2. The most significant results of the 2011 rock sampling are shown in the table below:

Table 2. Most significant results of 2011 rock sampling program (for sample locations see Appendix 1 and Fig. 4, complete analytical results – Appendix 2).

Sample	Au	Ag	Cu	Pb	Zn	Mo	Mn
	ppm	ppm	ppm	ppm	ppm	ppm	ppm
	Au-TL42	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS42
KAT104	0.012	1.44	17	34.4	141	15	<b>7480</b>
KAT105	0.002	0.22	48.3	20.1	394		<b>7650</b>
KAT109	0.011	<b>35.1</b>	<b>104</b>	<b>6700</b>	<b>1490</b>	<b>155.5</b>	<b>3820</b>
KAT114	<b>0.049</b>	5.13	34.1	<b>534</b>	370		718
KAT115	0.005	0.34	15.7	105	153		785
KAT117	0.009	1.2	7.9	157.5	108		406
KAT119	<b>0.055</b>	0.42	2.4	17	20	12	228
KAT148	0.003	0.07	1.5	54.5	<b>3080</b>		<b>21900</b>

The most significant results of 2011 rock sampling program can be summarized as follow:

1. A float sample of greenish, propylitic altered quartz diorite - KAT109 - has returned over 35 ppm silver by ME-MS41 procedure and highly elevated base-metal values (Table 2). High concentrations of precious and base metals in this sample were evidenced by the visible mineralization of galena and relatively abundant concentrations of Mn-Fe oxides in the sampled material. This combination of base-metals and silver is additionally accompanied by strongly elevated molybdenum and slightly elevated gold (Table 2).
2. Sample KAT148 returned strongly elevated concentrations of zinc and slightly elevated lead. The mineralization is obviously related to extremely strong concentrations of Mn-Fe oxides.
3. Sample KAT114 returned moderately strong concentration of lead and significantly elevated silver. This mineralization is not accompanied by visible, significant concentrations of Mn-Fe oxides.
4. Samples KAT114 and KAT119 (Fig. 4) returned significantly elevated concentration of gold and did not show significant accumulations of Fe-Mn oxides.

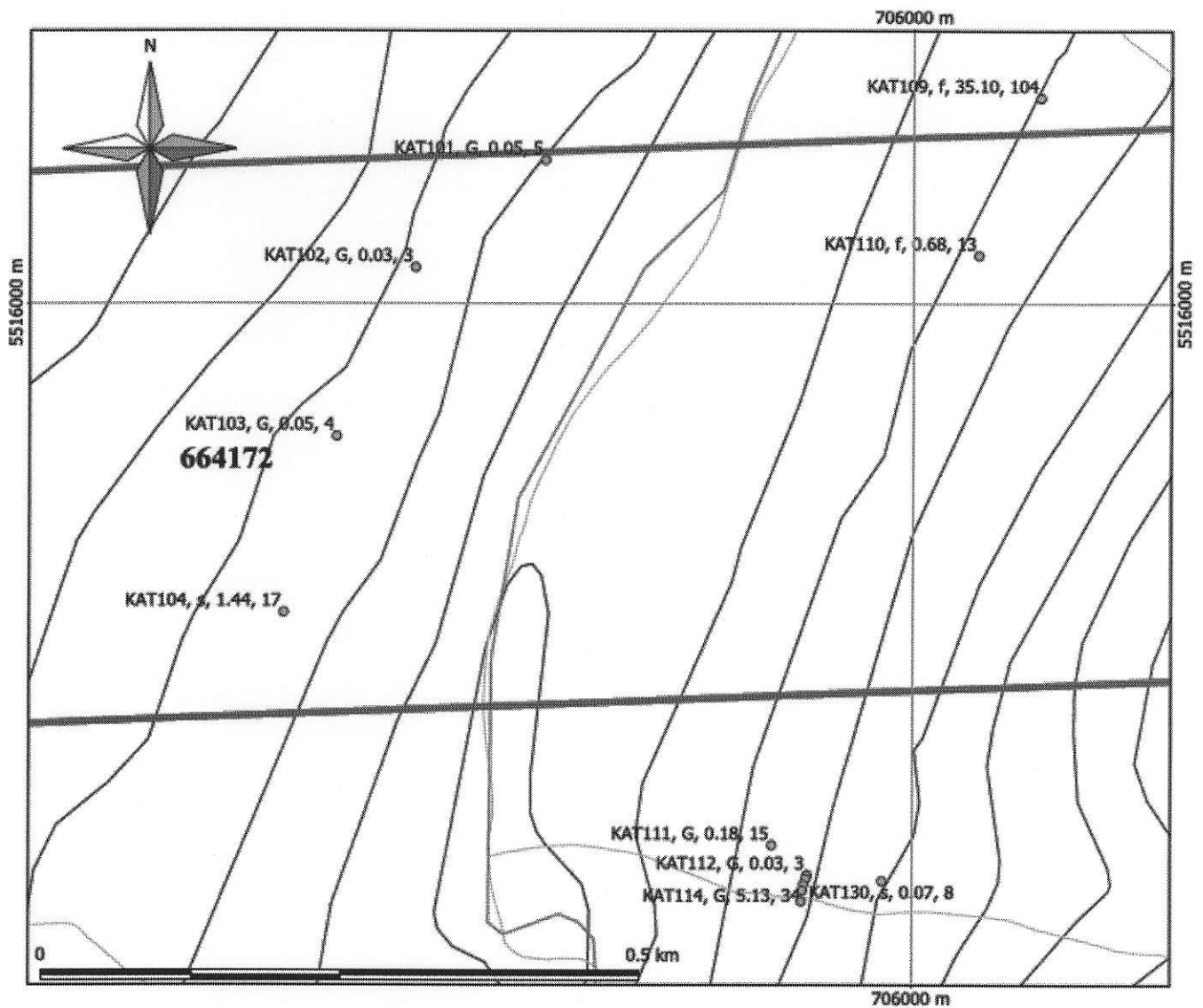


Fig. 4a. Rock Sample Location Map – Northern Part of the Sampled Area, 1 : 5,000. The labels include: sample label (see Appendices 1 and 2), sample type (G- grab, s – subcrop, f – float), silver content (ppm) and copper content (ppm).

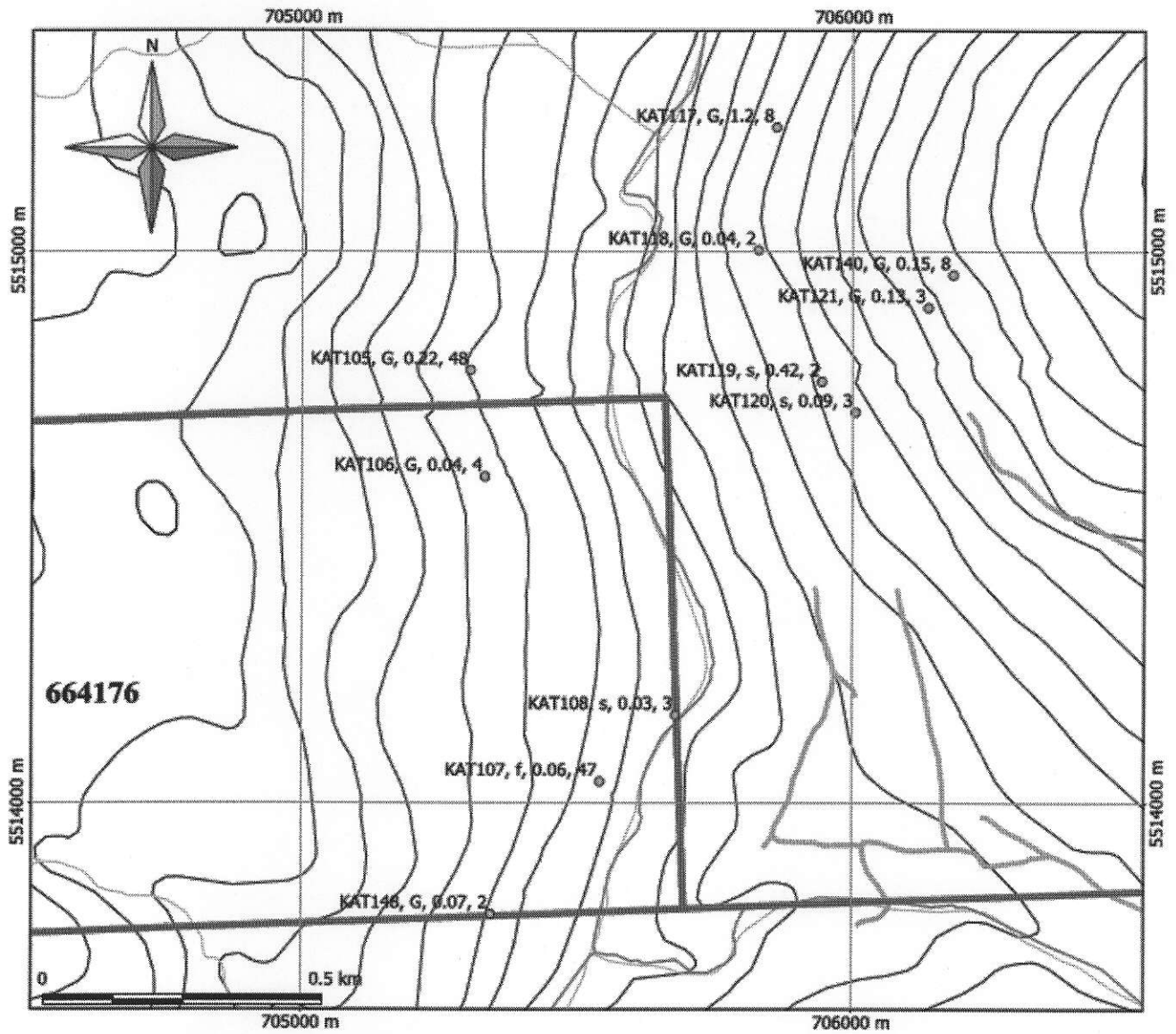


Fig. 4b. Rock Sample Location Map – Southern Part of the Sampled Area, linear bar-scale for reference (for further explanations see Fig. 4a).

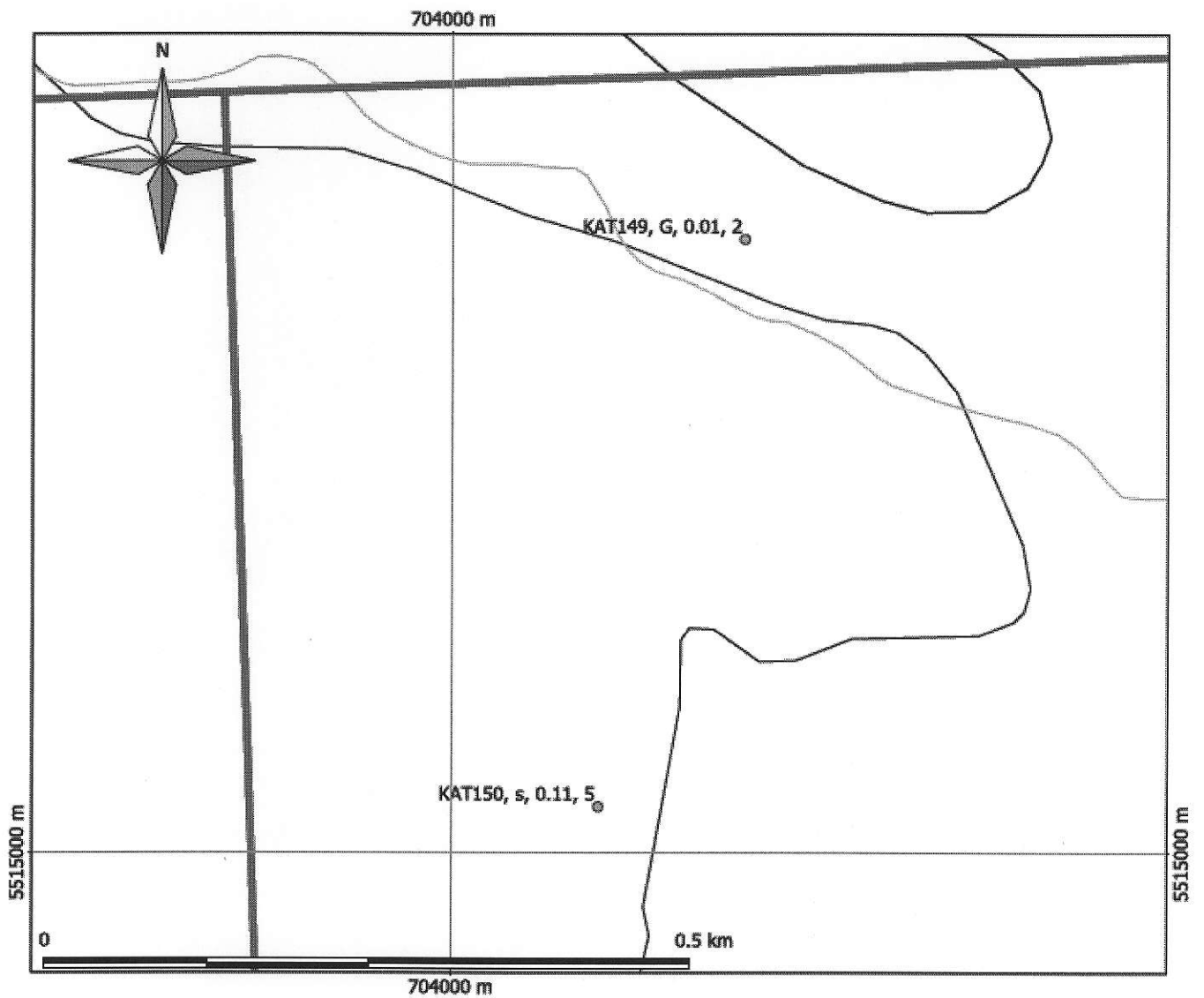


Fig. 4c. Rock Sample Location Map – Western Part of the Sampled Area, 1 : 5,000 (for further explanations see Fig. 4a).

### 3.0 CONCLUSIONS and RECOMMENDATIONS

The Kathleen Mtn. property occupies the contact zone between two large-scale granodiorite bodies of the Early and/or Middle Jurassic batholith, which was subsequently intruded by the Early Tertiary porphyritic stocks and/or plugs. This complex contact zone shows poorly defined boundaries and appears to consist of several irregular dykes of quartz-feldspar porphyry. The area eastward of the contact is also cut by smaller-scale dykes of intermediate to mafic(?) composition. The whole zone displays moderately diversified effects of hydrothermal propylitic alteration with chloritization. The rock formations of the area also display limited effects of silicification, including quartz veining, carbonate alteration and veining, and localized enrichment in pyrite. Granodiorite rocks of the contact zone display variable degree of fracturing and localized effects of moderate shearing. The intrusive rocks are host to polymetallic mineralization of precious and base metals, which forms fracture fillings, veins, disseminations and possible replacement lenses. The rocks of the contact zone also show significant, but apparently localized enrichment in molybdenum.

The Killdeer 2010 reconnaissance rock sampling program (K. Mastalerz 2011) tested the middle portion of the eastern part of the property. Polymetallic mineralization appears to be concentrated in and, probably, is controlled by a system of steep fractures which was subsequently followed by a distinct propylitic alteration and localized mineralization of hydrothermal character. The zone of preferred alteration and mineralization strikes from NNW to SSE, similarly as most of the small-scale tectonic features (shear zones and fractures) and veins. This dominant trend was also documented by historical geochemical soil and ground magnetometer surveys (e.g. Kelly, 1974; see also Peto, 1981). Historical reports also discuss an important WNW-ESE trend of mineralization and/or tectonic deformation on the property. Killdeer's rock sampling program also resulted in discovery of significant precious and base metal mineralization at considerable distance west of the main Kathleen mineralized zone (K. Mastalerz, 2011).

The highest concentrations of precious and base metals on the property were found in association with mixed carbonate-oxide-sulfide veins and with the systems of stringers and replacements which are lined-up with significant amount of Fe-Mn oxides. Some extensions of the mineralization at depth have been proven by historical drilling programs (e.g. Briden, 1976, Weymark, 1986). Kelly (1974) speculates on the association of mineralization on the property with two discontinuous trends documented by soil geochemistry and magnetometer survey, and assigns these two trends to different styles of mineralization (*comp. also* Peto, 1981).

Results of 2011 rock sampling program on the western part of the property are regarded as moderately encouraging. It is advisable to conduct some ground geophysical investigations in the selected areas of the property. A targeted VLF survey should be helpful in delineation of mineralized fracture zones and massive and/or semi-massive sulfide-oxide lenses. A limited microscope study should aid in clear definition of individual rock formations, alteration patterns and their relationship to mineralization. The central and western parts of the property still need more prospecting, rock and soil sampling. An additional soil geochemistry program should aid in delineation of mineralization zones due to poor exposure conditions in the western and northern parts of the property.

#### 4.0 REFERENCES

Briden, H.A., 1976. Excel Explorations Ltd. Diamond Drilling report; Leap Claim Group. AR 05932; 4 pages (and appendices)

Kelly, S.F., 1974. Report to Excel Explorations Ltd. on Magnetic and Geochemical Surveys of the part of the Leap Group of Mineral Claims, Similkameen Mining Division. AR 04896; 16 pages (and appendices)

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Peto, P., 1981. Geological and Geochemical Report on the Trout #1 and Trout #2 Claims in the Similkameen Mining Division. AR 09308; 7 pages (and appendices)

Thomas, P., 1984. Geological Report on Disco 2 Record No. 804 (11) and Disco 3 Record No. 852 (11) – Kathleen Mountain, Similkameen Mining Division, B.C. AR 12790. 8 pages (and appendices)

Vollo, N.B., 1972. Geochemical Report on the 92H/16 TC Group of Royal Canadian Ventures Ltd. at Peachland, B.C. AR 03643; 5 pages (and appendices)

Weymark, W.J., 1986. Diamond Drilling Assessment Report: Kathleen Mineral Claims Group, Kathleen Mountain – Trout Creek Area, Similkameen Mining Division, British Columbia. AR 14556; 8 pages (and appendices)

Respectfully submitted,

Krzysztof Mastalerz

## 5.0 WORK COST STATEMENT

<b>Item</b>	<b>Cost (\$CAD)</b>
Field Personnel – July 25 to July 27, 2011:	
Geologist (K. Mastalerz) 3 days @ \$700.00 per day	2,100.00
Prospector (D. Pugh) 3 days @ \$400.00 per day	1,200.00
Truck rental	399.14
Fuel	122.05
Accommodation	402.50
Repairs	75.15
Others - field	9.37
Food and Meals	223.90
Laboratory work	874.50
Report Writing	1200.00
Drafting and data compilation for report	400.00
<b>Total cost</b>	<b>7,007.07</b>

Note 1: This report spans a period prior to and post (report preparation, laboratory analyses) the date of filing of the Statement of Work, namely, SOW 5124975 on November 14<sup>nd</sup>, 2011.

## 6.0 CERTIFICATE OF PROFESSIONAL QUALIFICATIONS

I, Krzysztof Mastalerz, do hereby certify that:

1. I am a geologist with an office at 2005 Bow Drive, Coquitlam, B.C.
2. I am a graduate of the University of Wrocław, Poland, (M.Sc. in Geology in 1981, Ph.D. in 1990).
3. I am a Professional Geoscientist registered with the APEG of the province of British Columbia as a member, # 31243.
4. I have continually practiced my profession since graduation in 1981 as an academic teacher (University of Wrocław, A. Mickiewicz University of Poznań) through 1997, a research associate for the State Geological Survey of Poland (1993-1995), and independent consulting geologist in Canada and Peru since 1994.
5. This report is based upon field work carried on the Kathleen Mtn. property, west of Peachland, B.C., in July, 2011.
6. I have, personally, conducted and/or supervised field work done on the property in 2011.
7. Interpretations and conclusions presented in this report are based on my field observations, analytical results and on previously published and archive literature available for the area.

Dated at Vancouver, BC, this 13<sup>th</sup> day of February, 2012.

Krzysztof Mastalerz

## APPENDICES

### APPENDIX 1 – Rock Sample Locations and Descriptions

Sample Label	UTM (NAD83, 10 Zone)		Sample Type	Description
	East	North		
	[m]	[m]		
KAT101	705690	5516120	G	Light creamy to slightly greenish, medium-crystalline, equigranular granodiorite; slight propylitic alteration. Limonite/Fe-oxide stain along fractures
KAT102	705581	5516030	G	Light-creamy to slightly pinkish, K-spar-quartz porphyry; very slight propylitic alteration (background rock)
KAT103	705515	5515888	G	Light-creamy to slightly pinkish, K-spar-quartz porphyry; slight propylitic alteration, Fe-oxide mineralization along fractures
KAT104	705471	5515740	SC	Contact zone of intrusive, aplite(?) dyke within granodiorite(?) host rock; slight Mn-Fe-oxide stain
KAT105	705305	5514783	G	Light greenish intrusive mixture of granodiorite and feldspar-quartz porphyry; slight propylitic alteration, weakly fractured
KAT106	705331	5514591	G	Light creamy-gray, very weakly fractured feldspar-quartz porphyry; slight propylitic alteration and Fe-oxides, mostly along fractures
KAT107	705540	5514038	F	Fragments of slightly sheared granodiorite(?) host rock, most probably developed along fractures; relatively abundant Mn-Fe stain
KAT108	705677	5514159	SC	Fractured granitoid(?) rock with weak Fe-Mn stains, most probably within feldspar porphyry country rock
KAT109	706107	5516172	F	Moderately abundant float of greenish-gray, fractured quartz diorite, distinct propylitic alteration, slightly siliceous; <b>0.5% galena</b>
KAT110	706055	5516040	F	Abundant float of greenish-gray granodiorite with some propylitic alteration, includes few blocks of tectonic breccia(?); trace of pyrite, Fe-Mn-oxide stains
KAT111	705882	5515545	G	Light greenish-gray, equigranular granodiorite, weak chlorite alteration(?), magnetic; Fe-Mn oxides along fractures
KAT112	705912	5515520	G	Light greenish-gray, equigranular granodiorite, weak propylitic alteration(?), few thin veinlets of quartz
KAT113	705911	5515517	G	Light greenish-gray, equigranular granodiorite, weak propylitic alteration(?), few thin veinlets of quartz and slight hematite(?) stain
KAT114	705909	5515512	G	Strongly siliceous (vuggy quartz-silica) zone in the granitoid host rock; trace of crystalline pyrite mineralization
KAT115	705908	5515507	G	Strongly silica-impregnated zone in the granitoid host rock; 2-3% pyrite, mostly fracture pyrite
KAT116	705907	5515498	G	Incipient siliceous shear zones in granitoid host rock; pyrite varies from 1 to 3%
KAT117	705860	5515223	G	Creamy to rusty quartz vein from the granitoid host rock; 1-3% pyrite and stains of hematite-limonite

KAT118	705827	5515001	G	Creamy, quartz-feldspar porphyry with irregular enrichments in quartz-silica, weak clay/chlorite(?) alteration, few fractures; locally silica-quartz cementation and scattered pyrite cubes
KAT119	705943	5514762	SC	Subcrop of strongly siliceous, irregularly rusty-brownish granodiorite to quartz porphyry; weak oxide mineralization of hematite, trace of pyrite
KAT120	706004	5514707	SC	Subcrop of strongly siliceous, irregularly rusty-brownish granodiorite to quartz porphyry; weak oxide mineralization of hematite, trace of pyrite
KAT121	706136	5514897	G	Grayish, locally rusty, strongly silicified quartz-feldspar porphyry; weak oxide along fractures
KAT130	705975	5515515	SC	Creamy to slightly greenish, equigranular granodiorite; weak propylitic alteration
KAT140	716181	5514956	G	Medium-to-coarse crystalline quartz-feldspar porphyry, weakly to moderately fractured; weak oxide mineralization along fractures
KAT148	705343	5513798	G	Approximately 5 cm wide quartz/silica vein with distinct yellowish-rusty stain of Fe oxides in feldspar porphyry
KAT149	704228	5515478	G	Pinkish-gray, coarse-grained to pegmatitic feldspar porphyry; minor quartz veinlets
KAT150	704114	5515036	SC	Light gray, slightly pinkish, feldspar porphyry with minor quartz veinlets; very weak Fe-oxide stain

## Abbreviations:

Sample type: G - grab, SC - subcrop grab, F - float

## APPENDICES

### APPENDIX 2 – Rock Sample Analyses – Certified Results



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To: KILLDEER MINERALS INC.  
325-744 W. PENDER STREET  
VANCOUVER BC V6C 1A5

Page: 1  
Finalized Date: 11-SEP-2011  
Account: KILMIN

**CERTIFICATE VA11150779**

Project: KAT-11  
P.O. No.:  
This report is for 38 Rock samples submitted to our lab in Vancouver, BC, Canada on 8- AUG- 2011.  
The following have access to data associated with this certificate:  
KRZYSZTOF MASTALERZ STAN SZARY

**SAMPLE PREPARATION**

ALS CODE	DESCRIPTION
WEI- 21	Received Sample Weight
LOG- 22	Sample login - Rcd w/o BarCode
PUL- QC	Pulverizing QC Test
CRU- 31	Fine crushing - 70% <2mm
SPL- 21	Split sample - riffle splitter
PUL- 31	Pulverize split to 85% <75 um

**ANALYTICAL PROCEDURES**

ALS CODE	DESCRIPTION	INSTRUMENT
Ag- AA62	Ore grade Ag - four acid /AAS	AAS
Pb- AA62	Ore grade Pb - four acid / AAS	AAS
Au- TL42	Trace Level Au - 15 g AR	ICP- MS
ME- MS41	51 anal. aqua regia ICPMS	

To: KILLDEER MINERALS INC.  
ATTN: KRZYSZTOF MASTALERZ  
325- 744 W. PENDER STREET  
VANCOUVER BC V6C 1A5

This is the Final Report and supersedes any preliminary report with this certificate number. Results apply to samples as submitted. All pages of this report have been checked and approved for release.

Signature:

  
Colin Ramshaw, Vancouver Laboratory Manager



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Project: KAT-11

**CERTIFICATE OF ANALYSIS VA11150779**

Sample Description	Method Analyte Units LOR	WEI-21	Au-TL42	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41
		Recon Wt. kg 0.02	Au ppm 0.001	Ag ppm 0.01	Al % 0.01	As ppm 0.1	Au ppm 0.2	B ppm 10	Ba ppm 10	Be ppm 0.05	Bi ppm 0.01	Ca % 0.01	Cd ppm 0.01	Ce ppm 0.02	Co ppm 0.1	Cr ppm 1
KAT101		0.68	<0.001	0.05	0.52	0.8	<0.2	<10	200	0.76	0.08	0.49	0.23	167.5	1.1	3
KAT102		0.56	<0.001	0.03	0.52	0.3	<0.2	<10	120	0.63	0.06	0.58	0.13	151.5	1.0	3
KAT103		0.62	0.001	0.05	0.38	0.8	<0.2	<10	90	0.75	0.10	0.95	0.14	160.5	1.3	4
KAT104		0.64	0.012	1.44	0.92	11.3	<0.2	<10	470	0.71	3.43	0.04	0.18	75.1	7.9	5
KAT105		0.72	0.002	0.22	1.14	3.8	<0.2	<10	520	0.95	0.44	0.30	0.94	42.1	6.8	5
KAT106		0.72	<0.001	0.04	0.85	0.3	<0.2	<10	130	1.34	0.13	0.65	0.08	66.1	4.5	4
KAT107		0.40	0.001	0.06	1.68	0.8	<0.2	<10	290	0.25	0.09	1.12	0.09	31.3	8.0	54
KAT108		0.66	<0.001	0.03	0.65	1.6	<0.2	<10	440	0.49	0.11	0.29	0.09	63.3	4.5	5
KAT109		0.96	0.011	35.1	0.91	0.6	<0.2	<10	1740	0.55	54.1	0.93	4.58	14.85	4.7	4
KAT110		0.80	0.002	0.68	1.03	1.1	<0.2	<10	250	1.19	1.18	1.16	0.49	15.10	2.8	5
KAT111		0.44	0.001	0.18	0.82	1.4	<0.2	<10	260	0.91	0.29	0.36	0.22	32.4	8.9	3
KAT112		0.72	<0.001	0.03	0.95	0.7	<0.2	<10	90	0.47	0.06	0.85	0.08	23.6	4.8	5
KAT113		0.64	0.001	0.15	0.74	2.5	<0.2	<10	120	0.41	0.36	0.17	0.14	22.6	5.0	4
KAT114		0.96	0.049	5.13	0.83	46.5	<0.2	<10	70	0.66	5.24	0.22	0.97	41.1	12.1	6
KAT115		0.96	0.005	0.34	0.75	6.2	<0.2	<10	60	0.65	0.34	0.45	0.32	52.8	4.9	3
KAT116		0.70	0.001	0.18	0.58	3.3	<0.2	<10	90	0.50	0.38	0.14	0.20	79.1	2.4	4
KAT117		0.76	0.009	1.20	0.35	2.3	<0.2	<10	60	0.33	0.43	0.11	1.07	40.8	1.3	4
KAT118		0.82	<0.001	0.04	0.46	0.3	<0.2	<10	60	0.62	0.07	0.52	0.08	154.0	1.2	4
KAT119		1.12	0.055	0.42	0.25	3.5	<0.2	<10	40	0.27	0.80	0.04	0.06	40.2	0.8	10
KAT120		0.74	<0.001	0.09	0.38	3.8	<0.2	<10	50	0.32	0.25	0.05	0.04	42.1	1.5	7
KAT121		0.60	0.001	0.13	0.54	2.0	<0.2	<10	70	0.46	0.34	0.10	0.04	67.5	0.4	2
KAT130		0.76	<0.001	0.07	0.99	0.1	<0.2	<10	60	0.48	0.12	1.26	0.17	24.3	5.0	4
KAT140		0.96	0.001	0.15	0.42	0.1	<0.2	<10	70	0.67	0.30	0.55	0.11	167.5	1.1	5
KAT148		0.52	0.003	0.07	0.86	<2	<0.2	<10	230	0.47	0.04	15.75	11.30	19.75	17.1	<1
KAT149		0.92	<0.001	0.01	0.65	0.2	<0.2	<10	110	0.31	0.93	0.28	0.05	46.4	4.4	8
KAT150		0.68	0.001	0.11	0.48	<0.1	<0.2	<10	510	0.82	0.04	0.84	0.06	214	1.5	3
CR-01		0.56	0.003	0.12	0.41	7.8	<0.2	<10	60	0.20	0.25	0.06	0.21	22.2	3.4	3
CR-02		0.48	>1.00	10.80	0.41	21.6	4.1	<10	10	0.21	26.3	0.09	0.02	4.05	110.5	21
CR-03		0.76	0.992	1.29	6.32	2.6	1.2	<10	130	1.45	7.61	2.98	0.10	7.67	29.8	276
CR-04		0.78	0.071	0.54	1.12	2.5	<0.2	<10	50	0.38	0.68	0.81	0.34	16.60	10.2	46
CR-05		0.82	0.008	0.06	0.50	5.4	<0.2	<10	90	0.18	0.13	0.47	0.15	21.9	2.1	13
CR-06		0.78	0.030	1.33	1.40	4.3	<0.2	<10	100	0.20	0.56	1.19	0.54	9.87	23.2	19
CR-07		0.38	0.007	0.24	0.92	3.8	<0.2	<10	80	0.21	0.19	0.60	0.17	19.65	12.7	49
CR-11		0.56	0.002	0.06	1.54	0.4	<0.2	<10	200	0.32	0.06	0.90	0.12	31.6	10.6	4
CR-12		0.62	0.003	0.03	1.44	0.5	<0.2	<10	260	0.26	0.07	0.54	0.13	42.2	7.7	4
CR-13		0.68	0.018	1.17	8.44	8.9	<0.2	<10	220	1.48	0.29	3.46	0.17	7.77	43.8	204
CR-14		0.48	0.017	0.11	1.80	2.2	<0.2	<10	170	0.16	0.26	0.22	0.12	23.4	2.9	4
CR-15		0.60	0.004	0.12	0.49	1.3	<0.2	<10	50	0.10	0.06	0.46	0.11	27.4	1.4	13

\*\*\*\*\* See Appendix Page for comments regarding this certificate \*\*\*\*\*



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 Total # Pages: 2 (A - D)  
 Plus Appendix Pages  
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Project: KAT-11

**CERTIFICATE OF ANALYSIS VA11150779**

Sample Description	Method Analyte Units LDR	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	
		Cs ppm	Cu ppm	Fe %	Ca ppm	Ge ppm	Hf ppm	Hg ppm	In ppm	K %	La ppm	Li ppm	Mg %	Mn ppm	Mo ppm	Na %
KAT101		1.36	5.3	0.90	3.35	0.16	0.32	<0.01	0.018	0.33	90.7	2.9	0.04	1260	1.47	0.04
KAT102		0.87	2.5	0.79	3.25	0.09	0.24	0.01	0.018	0.30	81.4	3.0	0.07	862	0.44	0.06
KAT103		1.41	4.2	0.95	2.52	0.10	0.32	0.01	0.009	0.22	88.7	2.1	0.04	1080	3.44	0.04
KAT104		1.42	17.0	3.44	2.76	0.06	0.03	0.01	1.520	0.29	55.1	5.7	0.07	7480	15.00	<0.01
KAT105		0.82	48.3	6.87	4.56	0.10	0.07	0.01	1.795	0.21	23.8	9.4	0.57	7650	1.67	0.04
KAT106		2.06	4.3	1.89	3.68	0.09	0.03	0.01	0.037	0.24	81.8	10.1	0.29	805	0.24	0.06
KAT107		0.65	46.6	2.53	5.27	0.07	0.18	0.01	0.020	0.54	16.2	11.1	0.74	512	1.34	0.10
KAT108		1.09	2.6	1.89	3.18	0.05	0.09	0.01	0.023	0.29	33.4	5.1	0.26	511	0.56	0.06
KAT109		0.75	104.0	1.68	2.55	<0.05	0.04	0.02	0.202	0.21	11.6	10.7	0.59	3820	155.5	0.01
KAT110		2.71	12.9	2.50	2.86	<0.05	0.09	<0.01	0.532	0.36	14.5	7.9	0.25	5210	2.72	<0.01
KAT111		3.94	14.8	2.28	2.81	0.06	0.03	0.01	0.546	0.39	27.4	6.5	0.25	3390	4.16	<0.01
KAT112		1.69	2.5	1.75	3.81	<0.05	0.03	0.01	0.022	0.26	12.4	8.4	0.47	834	0.20	0.05
KAT113		1.15	7.1	1.31	2.57	<0.05	0.04	0.01	0.019	0.32	11.4	4.8	0.29	804	0.56	0.01
KAT114		4.36	34.1	4.21	3.62	0.07	0.03	0.01	0.063	0.48	20.6	3.5	0.19	716	14.65	<0.01
KAT115		2.51	15.7	1.61	3.36	<0.05	0.05	0.01	0.024	0.28	18.5	6.0	0.31	785	4.87	<0.01
KAT116		1.99	7.1	1.03	2.63	<0.05	0.11	0.01	0.031	0.32	18.4	3.0	0.11	397	1.20	0.02
KAT117		1.35	7.9	0.74	1.31	<0.05	0.04	0.01	0.022	0.25	29.3	1.0	0.02	406	7.67	0.01
KAT118		1.14	1.8	0.73	2.67	0.09	0.34	<0.01	0.007	0.31	84.9	2.3	0.04	437	0.72	0.04
KAT119		0.66	2.4	0.65	1.11	<0.05	0.11	<0.01	0.007	0.17	21.0	0.9	0.01	226	12.20	<0.01
KAT120		0.77	2.7	0.74	1.68	<0.05	0.08	<0.01	0.007	0.20	21.4	2.6	0.06	225	3.66	0.02
KAT121		1.74	2.5	0.79	2.34	0.05	0.24	0.01	0.008	0.36	38.9	1.9	0.04	78	2.83	0.03
KAT130		1.83	7.7	1.89	4.25	0.05	0.02	0.01	0.039	0.25	12.7	10.3	0.47	1360	0.31	0.07
KAT140		1.09	7.5	0.73	2.49	0.10	0.42	0.01	0.019	0.28	95.2	1.9	0.03	845	0.23	0.04
KAT148		2.17	1.5	11.80	3.82	0.11	0.07	0.02	1.805	0.15	10.2	5.5	1.59	21900	0.65	0.02
KAT149		1.25	2.4	1.81	3.69	0.06	0.08	<0.01	0.017	0.26	27.2	11.8	0.39	529	0.26	0.07
KAT150		2.19	5.1	0.96	2.47	0.11	0.37	0.01	0.005	0.27	118.0	3.4	0.04	231	0.44	0.04
CR-01		0.63	21.9	1.74	2.13	<0.05	0.03	0.01	0.028	0.14	9.7	2.5	0.02	478	1.32	0.06
CR-02		0.73	97.1	26.1	3.47	0.37	0.06	0.11	0.028	0.12	2.0	2.2	0.09	149	4.76	0.01
CR-03		8.15	102.0	7.86	23.5	0.27	0.22	0.03	0.032	1.97	3.3	32.0	1.63	886	1.44	0.40
CR-04		1.16	48.6	2.54	4.96	0.11	0.25	0.01	0.028	0.24	7.9	6.7	0.27	430	0.75	0.13
CR-05		0.76	7.2	1.42	2.35	0.06	0.12	0.01	0.044	0.17	8.7	4.7	0.13	216	0.27	0.08
CR-06		1.34	317	5.18	3.73	0.14	0.19	0.01	0.006	0.18	6.5	10.1	0.36	86	6.11	0.18
CR-07		1.48	35.3	2.37	3.76	0.07	0.18	0.01	0.012	0.18	10.5	17.0	0.66	259	1.54	0.07
CR-11		1.75	11.5	3.58	7.24	0.11	0.18	0.01	0.019	0.54	17.2	18.9	0.84	565	0.80	0.10
CR-12		2.40	7.9	3.20	6.79	0.10	0.15	0.01	0.019	0.60	20.2	21.7	0.69	598	0.90	0.07
CR-13		7.13	148.0	8.13	28.3	0.25	0.18	0.02	0.058	2.63	3.7	47.4	2.00	1800	1.57	0.54
CR-14		3.13	14.2	2.23	6.64	0.08	0.11	<0.01	0.032	1.12	10.1	19.3	1.09	336	0.89	0.06
CR-15		0.60	9.0	1.27	2.78	0.13	0.06	<0.01	0.033	0.14	11.8	4.7	0.11	207	0.67	0.07

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Page: 2 - C  
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Project: KAT-11

CERTIFICATE OF ANALYSIS VA11150779

Sample Description	Method	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	
	Analyte Units LOR	Nb ppm	Ni ppm	P ppm	Pb ppm	Rb ppm	Re ppm	S %	Sb ppm	Se ppm	Se ppm	Sn ppm	Sr ppm	Ta ppm	Te ppm	Th ppm
		0.05	0.2	10	0.2	0.1	0.001	0.01	0.05	0.1	0.2	0.2	0.2	0.01	0.01	0.2
KAT101		0.10	0.8	970	33.2	19.6	0.001	<0.01	0.07	1.3	0.3	0.2	111.0	<0.01	<0.01	10.9
KAT102		0.55	0.9	510	20.8	19.1	0.001	<0.01	0.06	1.1	<0.2	0.3	59.8	<0.01	<0.01	24.7
KAT103		0.27	0.7	420	21.8	13.1	<0.001	0.03	0.08	1.1	0.2	0.2	88.4	<0.01	<0.01	23.6
KAT104		0.06	2.2	190	34.4	13.8	<0.001	0.08	0.17	0.6	<0.2	<0.2	26.0	<0.01	0.01	2.1
KAT105		0.13	5.9	1020	20.1	11.2	<0.001	0.01	0.29	3.1	0.2	0.2	34.6	<0.01	<0.01	7.7
KAT106		0.07	3.1	790	7.8	12.4	<0.001	<0.01	0.06	2.8	0.2	0.2	148.5	<0.01	<0.01	14.6
KAT107		0.39	12.5	1210	4.7	21.1	0.003	0.02	0.07	4.8	0.3	0.3	43.6	<0.01	0.03	6.5
KAT108		0.82	2.8	840	14.7	20.4	<0.001	0.02	0.07	3.3	<0.2	0.2	22.7	<0.01	0.05	17.0
KAT109		<0.05	4.4	270	6700	10.5	0.005	0.11	0.27	1.2	0.4	<0.2	133.0	<0.01	0.26	2.5
KAT110		0.06	3.3	200	67.5	17.4	<0.001	0.04	0.08	0.8	<0.2	<0.2	290	<0.01	<0.01	4.1
KAT111		<0.05	2.7	610	35.0	19.6	<0.001	0.03	0.11	1.4	0.2	<0.2	23.1	<0.01	0.01	5.9
KAT112		0.11	2.8	680	5.0	13.6	<0.001	0.01	0.06	2.3	<0.2	<0.2	52.1	<0.01	<0.01	5.2
KAT113		0.09	1.4	580	21.1	15.9	<0.001	0.01	0.07	1.3	<0.2	<0.2	11.1	<0.01	<0.01	6.0
KAT114		0.06	3.8	710	534	17.0	<0.001	0.06	0.45	1.4	0.2	<0.2	16.2	<0.01	0.26	3.8
KAT115		0.08	2.3	780	105.0	14.6	<0.001	0.12	0.10	1.1	<0.2	<0.2	36.8	<0.01	0.04	4.7
KAT116		0.15	1.0	520	67.4	18.2	<0.001	0.03	0.11	0.7	<0.2	<0.2	30.7	<0.01	0.05	6.6
KAT117		0.13	1.2	340	157.5	12.1	<0.001	0.02	0.10	0.6	<0.2	<0.2	17.1	<0.01	0.04	3.1
KAT118		0.21	0.4	380	11.4	18.9	<0.001	0.01	0.06	0.9	0.2	0.2	37.4	<0.01	0.01	23.0
KAT119		0.10	0.6	170	17.0	11.5	<0.001	<0.01	0.40	0.4	<0.2	<0.2	7.5	<0.01	0.16	10.2
KAT120		0.11	0.8	240	6.3	13.5	<0.001	0.01	0.20	0.6	<0.2	<0.2	8.8	<0.01	0.06	8.0
KAT121		0.10	0.4	560	21.6	21.2	<0.001	0.02	0.13	0.8	<0.2	<0.2	19.3	<0.01	0.01	18.1
KAT130		0.06	3.3	580	30.8	12.2	<0.001	0.01	0.05	1.9	<0.2	<0.2	135.0	<0.01	<0.01	5.3
KAT140		0.57	0.4	470	12.4	18.2	<0.001	0.01	0.06	1.0	0.2	0.4	54.3	<0.01	<0.01	25.5
KAT148		0.18	4.7	200	54.5	8.3	0.001	0.02	0.05	2.4	0.4	<0.2	678	0.01	0.01	1.5
KAT149		1.30	3.0	630	3.3	21.0	<0.001	0.01	0.05	2.9	<0.2	0.4	29.1	0.01	<0.01	9.8
KAT150		0.35	1.0	620	28.6	12.9	<0.001	0.03	0.09	1.0	0.2	0.2	76.0	<0.01	<0.01	23.4
CR-01		0.29	0.6	250	3.5	4.2	<0.001	0.03	0.61	4.0	0.2	0.5	6.1	<0.01	0.12	2.4
CR-02		1.05	54.1	160	8.2	5.9	0.001	>10.0	0.52	2.6	15.4	0.7	2.7	0.01	38.1	0.2
CR-03		0.17	149.5	1340	4.4	117.5	0.001	1.93	0.16	11.3	1.2	1.4	74.7	0.01	4.46	0.4
CR-04		0.72	20.1	780	2.5	14.4	<0.001	0.44	0.24	8.1	0.6	1.3	14.6	0.01	0.66	1.7
CR-05		0.56	1.5	440	1.6	7.1	<0.001	0.07	0.41	6.0	0.3	0.8	7.1	0.01	0.06	1.9
CR-06		0.24	30.0	1550	6.6	7.3	0.014	2.57	0.05	2.3	16.9	0.3	79.5	<0.01	2.85	1.0
CR-07		0.48	18.0	800	7.4	8.9	0.001	0.14	0.16	5.0	1.2	0.3	18.2	<0.01	0.55	12.9
CR-11		0.70	1.7	1150	3.3	32.7	<0.001	0.05	0.10	4.3	0.2	0.6	43.3	0.01	0.01	8.1
CR-12		0.82	1.6	1100	3.1	43.3	<0.001	0.03	0.11	3.6	0.2	0.6	33.9	<0.01	0.03	10.0
CR-13		0.21	89.9	1600	4.2	137.0	0.001	1.28	0.08	23.5	1.6	1.5	96.0	0.01	0.82	0.6
CR-14		0.52	2.1	260	1.9	43.6	<0.001	0.03	0.41	4.5	0.4	0.9	11.9	0.01	0.05	2.7
CR-15		0.53	1.3	290	2.3	5.3	<0.001	0.02	0.25	3.7	0.5	0.8	8.0	<0.01	0.04	2.1

\*\*\*\*\* See Appendix Page for comments regarding this certificate \*\*\*\*\*



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Page: 2 - D  
 Total # Pages: 2 (A - D)  
 Plus Appendix Pages  
 Finalized Date: 11-SEP-2011  
 Account: KILMIN

Project: KAT-11

**CERTIFICATE OF ANALYSIS VA11150779**

Sample Description	Method Analyte Units LOR	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	Ag-AA62	Pb-AA62
		Ti %	Ti ppm	U ppm	V ppm	W ppm	Y ppm	Zn ppm	Zr ppm	Ag ppm	Pb %
		0.005	0.02	0.05	1	0.05	0.05	2	0.5	1	0.001
KAT101		0.013	0.18	1.71	12	0.30	7.37	136	10.7		
KAT102		0.009	0.15	3.34	8	0.13	6.82	62	7.2		
KAT103		0.007	0.09	3.63	7	0.16	8.30	83	9.7		
KAT104		<0.005	0.16	1.48	5	0.61	2.40	141	0.6		
KAT105		0.010	0.09	2.98	29	0.28	9.03	394	2.0		
KAT106		<0.005	0.08	3.39	21	0.12	15.40	68	0.6		
KAT107		0.191	0.12	1.43	101	0.21	6.31	50	4.3		
KAT108		0.027	0.15	1.58	23	0.09	5.30	53	2.3		
KAT109		<0.005	0.12	1.39	8	0.53	6.01	1480	0.9	34	0.670
KAT110		<0.005	0.19	4.59	5	0.33	7.97	248	1.7		
KAT111		<0.005	0.21	1.26	12	0.33	11.75	76	0.5		
KAT112		0.006	0.11	1.20	19	0.22	4.89	48	<0.5		
KAT113		<0.005	0.14	0.84	6	0.35	4.06	71	0.9		
KAT114		<0.005	0.17	4.26	19	0.25	8.69	370	1.2		
KAT115		<0.005	0.13	1.31	8	0.16	5.69	153	1.6		
KAT116		<0.005	0.15	1.53	5	0.11	2.05	79	3.9		
KAT117		<0.005	0.11	1.06	5	0.10	2.65	108	1.9		
KAT118		0.006	0.12	2.97	5	0.10	7.34	20	11.4		
KAT119		<0.005	0.09	3.30	2	0.09	2.40	20	3.5		
KAT120		<0.005	0.10	3.59	6	0.08	2.65	21	2.4		
KAT121		<0.005	0.17	2.77	3	0.07	3.89	24	7.8		
KAT130		<0.005	0.09	0.69	18	0.11	6.15	127	0.5		
KAT140		0.012	0.12	4.53	7	0.09	7.97	27	14.3		
KAT148		0.005	0.09	5.13	20	0.69	20.9	3080	1.5		
KAT149		0.066	0.11	2.50	29	0.06	6.81	36	1.6		
KAT150		0.007	0.08	3.17	12	0.26	8.13	46	13.0		
CR-01		0.016	0.15	1.41	5	0.23	4.02	50	1.1		
CR-02		0.056	0.15	0.10	19	39.7	6.89	7	1.3		
CR-03		0.333	0.62	0.17	149	13.45	9.41	145	6.9		
CR-04		0.156	0.09	1.06	31	3.12	12.85	34	7.0		
CR-05		0.087	0.14	0.31	6	0.41	14.90	33	2.4		
CR-06		0.116	0.14	0.78	55	6.10	7.45	27	4.1		
CR-07		0.148	0.07	3.02	82	0.46	9.52	43	3.2		
CR-11		0.254	0.23	2.43	96	0.13	7.70	62	2.1		
CR-12		0.200	0.30	2.74	64	0.13	7.64	61	1.8		
CR-13		0.370	0.79	0.72	146	0.74	12.05	205	6.0		
CR-14		0.132	0.28	0.28	9	0.13	10.45	81	3.5		
CR-15		0.042	0.05	0.23	5	0.14	13.80	45	1.9		

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Page: Appendix 1  
Total # Appendix Pages: 1  
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CERTIFICATE OF ANALYSIS VA11150779

Method	CERTIFICATE COMMENTS
ME-MS41 ME-MS41	Interference: Ca > 10% on ICP-MS As, ICP-AES results shown. Gold determinations by this method are semi-quantitative due to the small sample weight used (0.5g).