

**BC Geological Survey
Assessment Report
33260**

ASSESSMENT REPORT

2011 GEOCHEMICAL ROCK SAMPLING PROGRAM,
KATTY 1 PROPERTY (856050)
SOUTHERN BRITISH COLUMBIA

Claims involved: 856050

SIMILKAMEEN MINING DIVISION

NTS 92H.16E

Approximate coordinates of the centre of the property:

Latitude: 49° 51' 05" N; Longitude: 120° 02' 33.5" W
UTM: 5526300N, 713600E (NAD83, Zone 10)

Owner: Killdeer Minerals Inc., Vancouver

Operator: Killdeer Minerals Inc., Vancouver

[SOW 5328637]

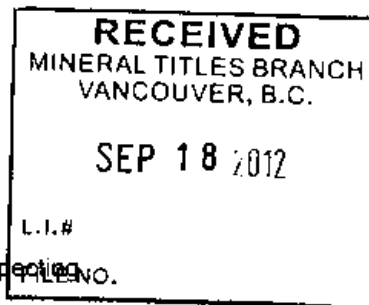
**GEOLOGICAL SURVEY BRANCH
ASSESSMENT REPORT**

By

Krzysztof Mastalerz, Ph.D., P.Geol.

33,260

Submitted: September 17th, 2012



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: \$3,614.65

AUTHOR(S): Krzysztof Mastalerz

SIGNATURE(S):

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

YEAR OF WORK: 2012

STATEMENT OF WORK - CASH PAYMENTS EVENT NUMBER(S)/DATE(S): Event Number 5328637, May 31, 2012

PROPERTY NAME: Katty 1

CLAIM NAME(S) (on which the work was done): Katty 1 (Tenure Number 856050)

COMMODITIES SOUGHT: Gold, silver, base metals

MINERAL INVENTORY MINFILE NUMBER(S), IF KNOWN: 092HNE288

MINING DIVISION: Similkameen

NTS/BCGS: 92H 16

LATITUDE: 49 ° 51 ' 05 " LONGITUDE: 120 ° 2 ' 34 " (at centre of work)

OWNER(S):

1) Killdeer Minerals Inc.

2)

MAILING ADDRESS:

325-744 West Hastings Street

Vancouver, BC, V6C 1A5

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

1) Killdeer Minerals Inc.

2)

MAILING ADDRESS:

325-744 West Hastings Street

Vancouver, BC, V6C 1A5

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

Jurassic Pennask intrusives, Nicola Group (Triassic) sediments and volcanics, contact alteration, hornfels, silicification, pyrite, pyrrhotite, gold-silver-base metal mineralization hosts by quartz veins and their wall rocks

REFERENCES TO PREVIOUS ASSESSMENT WORK AND ASSESSMENT REPORT NUMBERS: 09261, 19899, 21058

TYPE OF WORK IN THIS REPORT	EXTENT OF WORK (IN METRIC UNITS)	ON WHICH CLAIMS	PROJECT COSTS APPORTIONED (incl. support) 1
GEOLOGICAL (scale, area)			
Ground, mapping _____			
Photo interpretation _____			
GEOPHYSICAL (line-kilometres)			
Ground _____			
Magnetic _____			
Electromagnetic _____			
Induced Polarization _____			
Radiometric _____			
Seismic _____			
Other _____			
Airborne _____			
GEOCHEMICAL (number of samples analysed for...)			
Soll _____			
Silt _____			
Rock _____		Katty 1 (Tenure Number 856050)	3014.65
Other _____			
DRILLING (total metres; number of holes, size)			
Core _____			
Non-core _____			
RELATED TECHNICAL			
Sampling/assaying _____			
Petrographic _____			
Mineralographic _____			
Metallurgic _____			
PROSPECTING (scale, area) _____		Katty 1 (Tenure Number 856050)	600.00
PREPARATORY / PHYSICAL			
Line/grid (kilometres) _____			
Topographic/Photogrammetric (scale, area) _____			
Legal surveys (scale, area) _____			
Road, local access (kilometres)/trail _____			
Trench (metres) _____			
Underground dev. (metres) _____			
Other _____			
TOTAL COST:			\$3,614.65

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ASSESSMENT REPORT ON
2011 GEOCHEMICAL ROCK SAMPLING PROGRAM,
KATTY 1 PROPERTY
SOUTHERN BRITISH COLUMBIA
BCGS 092H.16

1. INTRODUCTION

The Katty 1 property is located in the Similkameen Mining Division, in southern British Columbia (Fig. 1). The property includes a single mineral claim - 856050 (Fig. 2) located some 25 km WNW of Peachland, BC, within the headwaters of Murray Creek and Trout Creek. The property has been owned by Killdeer Minerals Inc. of Vancouver since June 1 2011.

1.1. Location and Access

The Katty 1 (Mineral Claim 856050) property is located some 25 kilometres west of the town of Peachland, southern British Columbia (Figs. 1 and 2). The claim covers the headwaters of Trout Creek and Murray Creek, western tributaries to headwaters of Peachland Creek, south-eastward from the Pennask Mountain. The property is centered approximately at latitude 49° 51' 05" north and longitude 120° 02' 33.5" west on NTS map sheet 092H.16E. The property is 62.49 hectares in area.

Access to the SW corner of the property is provided by a system of paved and then gravel and dirt roads (approximately 35 km) from the town of Peachland on Okanagan Lake through the area of Headwater Lakes. The claim can also be reached from north, where dirt roads merge with highway 97. The claim is accessible year-round except in heavy snow.

1.2. Physiography, Vegetation and Climate

The Katty 1 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 the narrow, incised valley of Murray (Trout?) Creek. Elevations on the property range between approximately 1600 in the valley of Murray Creek and 1790 metres a.s.l. in the northernmost tip of the property (Fig. 2).

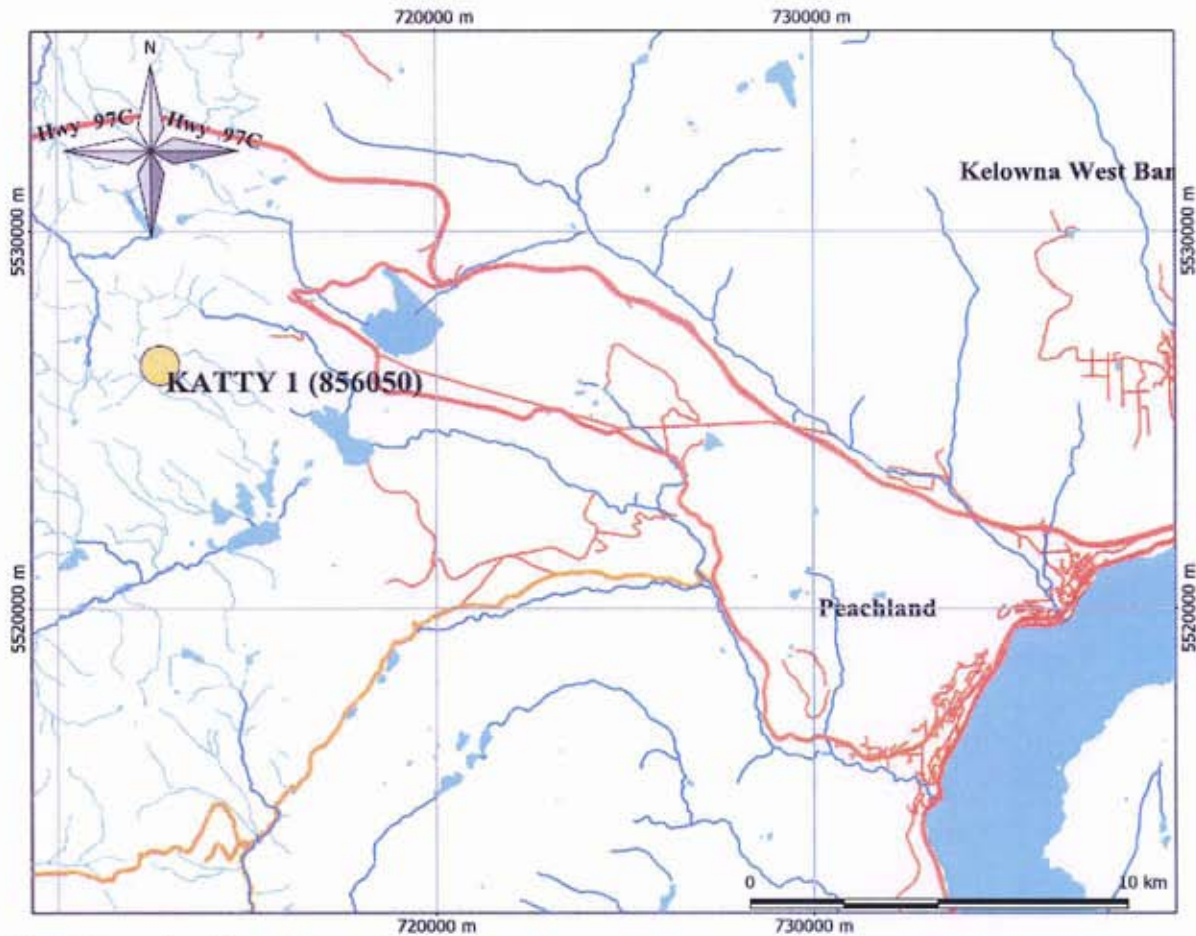


Fig. 1. Location Map – Katty 1 property.

Part of the Katty 1 area is covered with glacial till and gravels with bedrock exposure being limited to ridges, some steeper slopes and to along deactivated roads. The eastern parts of the property have been previously logged and are partly deprived of arborescent vegetation. Secondary and/or tertiary growth of coniferous (pine, fir, balsam, spruce) and minor deciduous trees prevails on predominant part of the property.

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. The property is usually snow-free from May till October.

1.3 Property Definition and Claim Information

The Katty 1 property is located in the Similkameen Mining Division and comprises one mineral tenure of 62.49 hectares (Fig. 2). Basic claim information is listed in Table 1.

Table 1. Claim status of the Katty 1 property, Similkameen Mining Division, NTS 092H.16E

Claim Name	Claim Number	Area	New Good to Date
Katty 1	856050	62.49	Oct 01, 2019

Work done by Killdeer in August 2011 was conducted on the claim 856050. Expiry date listed above is contingent upon acceptance of this assessment report, according to event 5328637 filed on May 31, 2012.

1.4 History

Historical reference to geology of the area of the Katty 1 claims is very limited and little prior exploration has been documented for the area. Rowe (1990) referred to an assessment report (No. 850) which provided results of the induced polarization survey in the area in 1966. The area around Brenda Mine (approximately 3-4 km NE of the property) was actively explored for copper and molybdenum during the 1960'. Approximately 12 kilometres to the west, high-grade gold-vein system (Elk property) was explored by Fairfield Minerals during 1980' and 1990'. Prospecting and reconnaissance sampling were carried out by Fairfield in the area of Crest property (present day Katty 1 and its western neighborhood). Anomalous values of gold, silver, arsenic, lead, zinc and copper were returned from a number of stream, soil and rock samples.

In 1989 Fairfield Minerals Ltd. Staked 30 mineral claims (Crest property) and conducted reconnaissance soil sampling along roads with 50-metre sample spacing. Soil sampling was accompanied by limited prospecting and rock sampling. A total of 661 soil samples were collected and analyzed for gold, silver, copper, zinc, molybdenum and bismuth. In 1990, the same company staked additional 13 mineral claims and conducted an extensive grid soil sampling which yielded 5749 soil samples (Cornier, 1991). Additionally, 23 rock samples and 5 stream sediment samples were collected during the latter exploration program. Several samples returned anomalous gold values and indicated widely scattered areas of potential gold mineralization in various parts of the property, including its eastern part (present-day Katty 1 property).

Some geological, geophysical and geochemical surveys, as well as trenching were conducted on the slopes of Mount Kathleen (some 12 km SW of the Katty 1 claim). Soil geochemistry resulted in the discovery of several silver and copper anomalies and Excell Explorations completed 5 diamond drill holes on that property. Results of mineral prospecting and exploration on Kathleen Mountain property was lately reviewed by Mastalerz (2011, 2012).

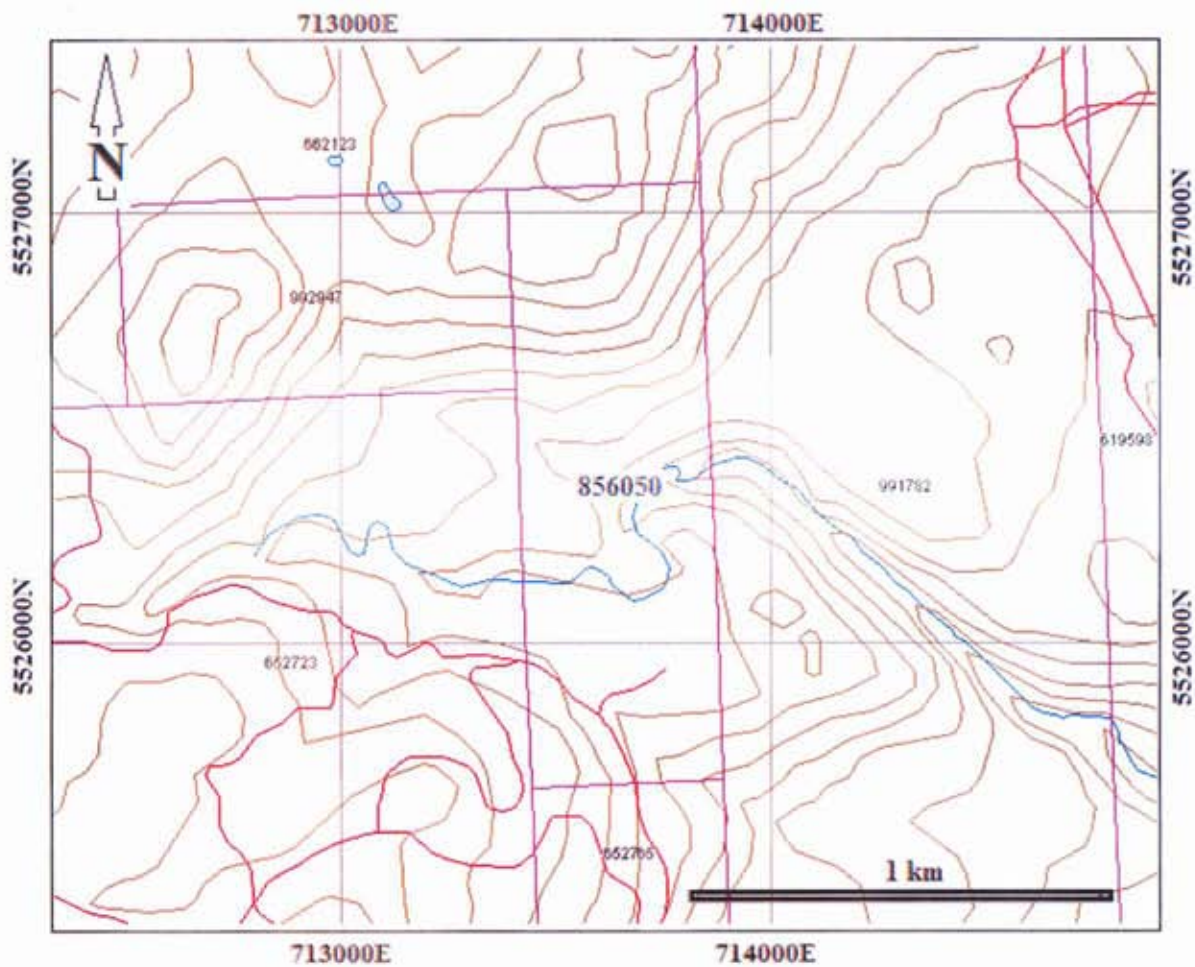


Fig. 2. Katty 1 - Claim Map.

Legend: magenta – claim boundaries, red – dirt roads, blue – streams, brown - contours.

1.5. Summary of 2011 Rock Sampling Program

In late July 2011 Killdeer conducted a reconnaissance rock sampling program on the mineral claim 856050 of the Katty 1 property. During the program, 12 rock samples (predominantly grab samples) were collected in the southwestern part of the property and the surrounding area (Table 3, Fig. 4). This set of samples was designed to verify existence of a continuation of mineralization known from the Crest Showing (092HNE288). The program resulted in few elevated gold, silver, base metals and some indicator element values. The results appear to indicate a possibility of continuation of some of the mineralization zones encountered by the showing.

2. TECHNICAL DATA AND INTERPRETATION

2.1 Regional Geology

The Katty I 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 composition 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. The regional geology of the area is illustrated on the northeast part of GSC Map 888A – Princeton, mapped by H.M.A. Rice in 1939-1944 (Rice, 1947). Geological structure of the region is still uncertain and formal lithostratigraphic nomenclature not established, with different names still being used for the same rock formations (*see Mastalerz 2012 for comparison*). Further systematic work on geology has to be conducted and nomenclature to be formalized for satisfactory discussion of regional geological features of the area.

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 Katty I property is concealed under the layer of Quaternary deposits, mainly glacial till and sand/gravel layers. Natural outcrops of bedrock occur along ridges; at some steeper slopes and old, usually overgrown road cuts. The geology of the property was never mapped on a scale sufficient for a reliable summary. Geological observations were conducted while prospecting and sampling but geological contacts were never followed and established on maps.

Intrusive rocks seem to prevail on the property and consist mainly of granodiorite with minor, coarse-crystalline, reddish granite (cf. Rowe, 1990), and, rarely tonalite. There are locally accompanied by aplite dykes (some of them with irregular pods of quartz), some dykes of intermediate composition and quartz veins. Nicola volcanogenic and sedimentary rocks occur to the north and north-west, are commonly silicified and host quite abundant disseminated pyrite and minor pyrrhotite. These rocks are considerably hornfelsed near the intrusive contacts. Quartz vein float was described earlier as accompanied by disseminated pyrite, chalcopyrite, galena and tetrahedrite (Rowe 1990, Cormier 1991). Locally, schistose rocks (including large float blocks) of unknown provenance were observed on the property (Rowe, 1990).

Structural features of the rock formations which underlie the property is not known due to lack of systematic geological mapping. The hornfelsed rocks at the intrusive contact sampled during this program displayed significant degree of silicification, quartz veining and mineralization.

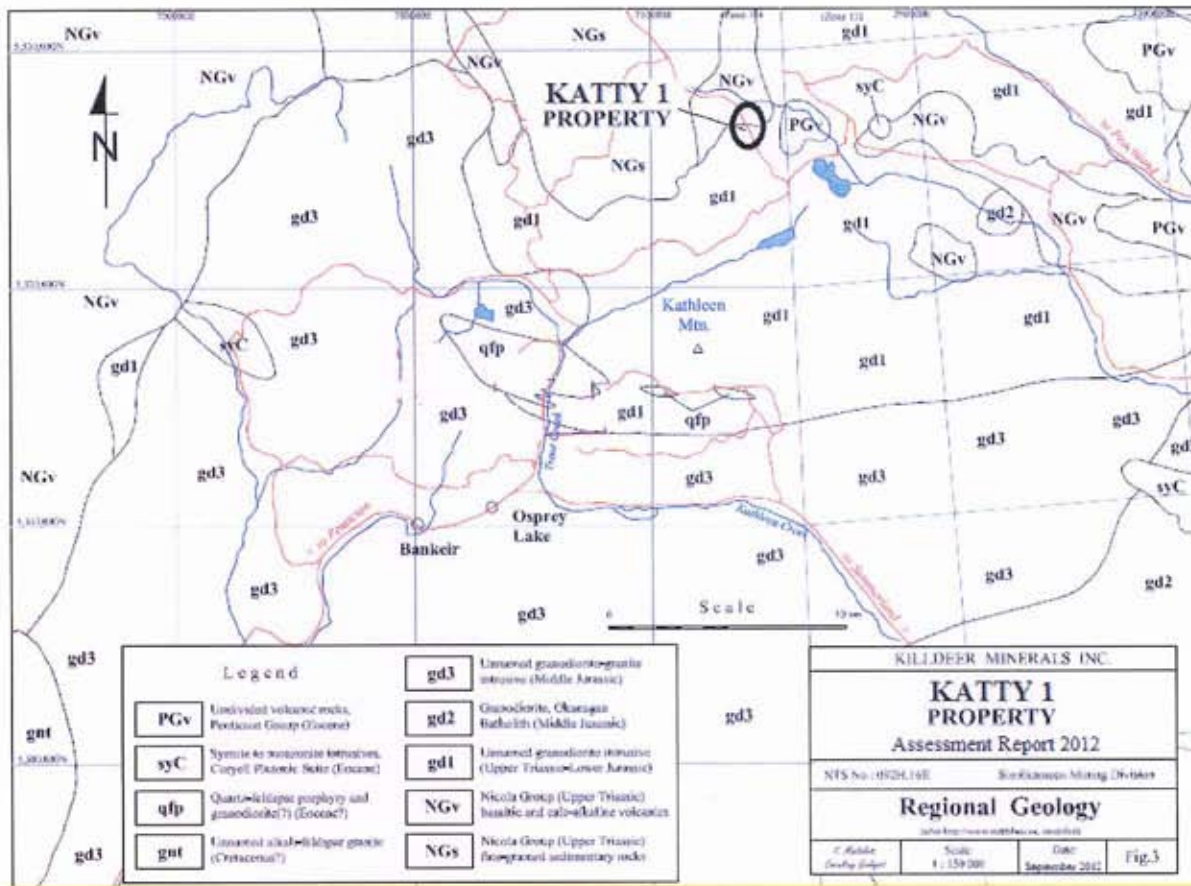


Fig. 3. Regional Geology Map.

2.3 Mineralization types

The Katty 1 property features gold, silver and base-metal mineralization associated with quartz veined and hornfelsed, silicified contact zone between Jurassic(?) intrusive rocks and the remnant pendants of the Nicola Group sediments and volcanic rocks. The Crest Showing (092HNE288) is exposed along a logging road in the headwaters of Trout Creek in southwestern part of the Katty 1 claim. The Crest was described to occur at the contact between the Triassic Peachland Creek Formation (Nicola Group) to the northwest and the Early Jurassic Pennask batholith to the southeast. Silicified greenstone of the Peachland Creek Formation is cut by quartz veinlets and mineralized with disseminated pyrite and pyrrhotite adjacent to granodiorite of the Pennask batholith. A grab sample analysed 8.56 grams per tonne gold, 15.7 grams per tonne silver and 0.0409 per cent copper (Rowe, 1990)

2.4. 2011 Rock Sampling Program

In July 2011 Killdeer conducted a reconnaissance rock sampling program on the Katty 1 property. During the program, 12 rock samples (predominantly grab samples – Table 3) were collected in the southwestern part of the property and the surrounding area (Fig. 4). This set of samples was designed to check for the extensions of the Crest Showing (092HNE288) mineralization. The reconnaissance program resulted in few elevated gold, silver and base metals values and appears to prove an existence of an interesting mineralization system related to the contact of the intrusive rocks and the sediments/volcanics of the Nicola Group.

The complete set of sample descriptions and corresponding analytical geochemical results from the sampling program are presented in Table 3 and Appendix 1, respectively. Sample locations are also shown on a map (Fig. 4). Analytical procedures applied to rock samples are described in Appendix 1. 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 Table 3 and Fig. 4, complete analytical results – Appendix 1).

Sample	Au	Au	Ag	Cu	Ni	Te
	ppm	ppm	ppm	ppm	ppm	ppm
	Au-TL42	ME-MS40	ME-MS41	ME-MS41	ME-MS41	ME-MS41
CR-02	> 1.00	4.1	10.80	97.1	54.1	38.1
CR-03	0.992	1.2	1.29	102.0	149.5	4.46
CR-06	0.630	<0.2	1.33	317.0	30.0	2.85
CR-13	0.018	<0.2	1.17	148.0	89.9	0.82

Table 3. Sample locations and descriptions - 2011 rock sampling program, Katty 1 property (for complete analytical results see Appendix 1).

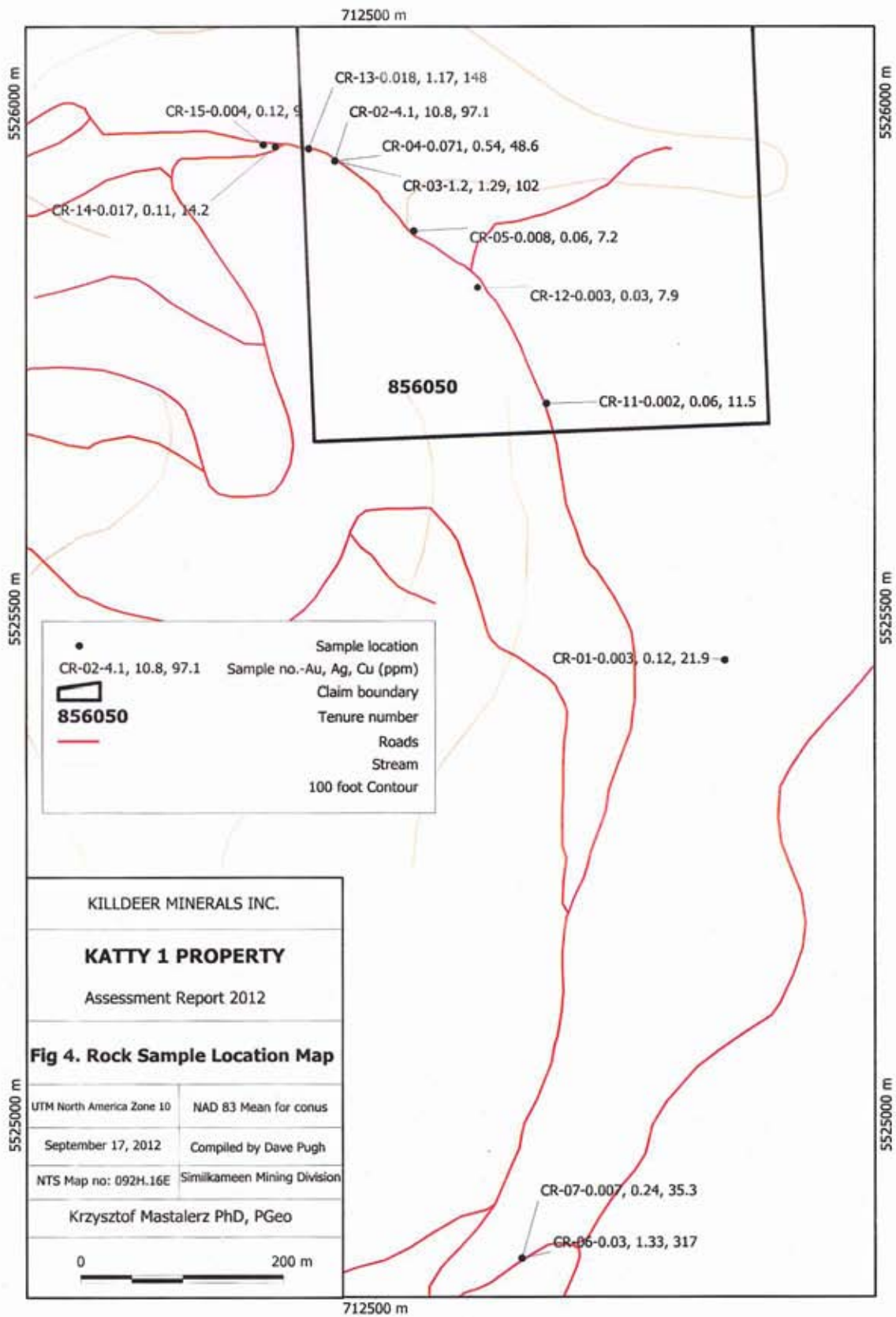
Sample	UTM Coordinates (NAD83, Z-10)		Sample Type	Description
	Easting	Northing		
CR-01	712846	5525449	sc	Light gray aplite with prominent quartz eyes
CR-02	712461	5525943	g	10-20 cm wide quartz vein with 1-2 cm thick seam of pyrite; contact zone hornfels
CR-03	712461	5525943	g	Fine-grained greenstone to mafic rock at the contact with quartz vein, pyrrhotite
CR-04	712461	5525943	g	Siliceous, non-magnetic hornfels-type rock; contact zone
CR-05	712539	5525874	g	Slightly silicified hornfelsic rock from the contact zone
CR-06	712645	5524859	g	Fine-grained greenstone/hornfels, siliceous, magnetic - pyrrhotite
CR-07	712645	5524859	g	Greenstone/hornfels breccia with quartz-carbonate cement, nonmagnetic
CR-11	712670	5525703	g	Fine/medium-grained granodiorite/tonalite; weakly fractured
CR-12	712602	5525818	g	Fine/medium-grained granodiorite; weakly fractured
CR-13	712435	5525955	sc	Strongly siliceous hornfels/greenstone with abundant disseminated pyrrhotite
CR-14	712402	5525957	g	Strongly siliceous, very fine-grained hornfels, disseminated pyrrhotite
CR-15	712390	5525959	g	Moderately siliceous hornfels/greenstone, no visible mineralization

Legend: g - grab sample; sc - sample from subcrop

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

1. The samples of the quartz vein with accompanying seam of pyrite (CR-02) and its hornfelsed wall rock (CR-03) have returned strongly elevated concentrations of gold, silver and some indicator elements (tellurium, bismuth)
2. Some other samples (Table 2) from the zone of contact between intrusive rock of the Jurassic(?) Pemask batholith and its wall rocks returned anomalous values of gold, silver and some base metals.

Fig. 4. (next page) Rock Sample Location Map – Southern Part of the Katty 1 Property; linear scale for reference.



3.0 CONCLUSIONS and RECOMMENDATIONS

The Katty I property occupies the contact zone between a large-scale granodiorite body of the Early and/or Middle Jurassic batholith and sediments and volcanics of the Triassic Nicola Group. This, apparently complex contact zone display strong effects of thermal contact alteration – the contact rocks display localized strong-to-weak silicification, quartz veining and pyrite and pyrrhotite disseminations. The host rocks at the very contact can be classified as hornfelses and/or greenstones. The known mineralization (gold, silver, base metals) appears to be strongly related to rock alterations encountered within the contact zone and is host predominantly by quartz veins. The highest concentrations of precious and base metals on the property were found in association with elevated concentrations of bismuth and tellurium. However, the structural control on the mineralization is not known due to lack of geological mapping.

The Killdeer 2011 reconnaissance rock sampling program tested just the very limited zone near the intrusive contact and the results can be regarded as moderately encouraging. It is strongly recommended to conduct a basic geological mapping program which should allow delineating extensions of the contact zone. A simple, targeted VLF survey may be helpful in delineation of mineralized zone related to the intrusive contact. The northern parts of the property need prospecting, as well as 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

Aird, C.A., 1981. Helicopter Geophysical Survey – Osoyoos and Similkameen Mining Divisions, Peachland Area – 92H, 82E. Assessment Report 9261; 10 pp. and appendices

Cormier, J.R., 1991. 1990 Geochemistry Report on the Crest 1-43 Mineral Claims, Similkameen and Nicola Mining Divisions, British Columbia. Assessment Report 21058. 18 pp. and appendices.

Mastalerz, K., 2011. Assessment Report on Kathleen Mountain Property, Southern British Columbia. AR; 22 pages (and 2 appendices).

Mastalerz, K., 2012. Assessment Report on 2011 Geochemical Rock Sampling Program, Kathleen Mountain Property, Southern British Columbia. BC Assessment Report. 20 pages and Appendices.

Preto, V.A., 1979. Geology of the Nicola Group between Merritt and Princeton. B.C.M.M. bull., 69.

Rice, H.M.A., 1947. Geology and Mineral Deposits of the Princeton Map – Area BC. Geol. Surv. Can., Memoir 243.

Rowe, J.D., 1990. 1989 Geochemistry Report on the Crest 1-30 Mineral Claims, Similkameen Mining Division, British Columbia. Assessment Report 19899. 18 pp. and appendices.

Respectfully submitted,

Krzysztof Mastalerz

5.0 WORK COST STATEMENT

Item	Cost (\$CAD)
Field Personnel – July 25 to July 29, 2011:	
Geologist (K. Mastalerz) 1.5 days @ \$700.00 per day	1,350.00
Prospector (D. Pugh) 1.5 days @ \$400.00 per day	600.00
Truck rental (estimation)	100.00
Fuel	45.15
Accommodation	150.00
Food and Meals	115.00
Laboratory work	254.50
Report Writing	800.00
Drafting and data compilation for report	200.00
Total cost	3,614.65

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 Katty 1 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 17th day of September, 2012.

Krzysztof Mastalerz

APPENDICES

APPENDIX 1 – Rock Sample Analyses – Certified Results



ALS Canada Ltd.
2103 Dollarton Hwy
North Vancouver BC V7H 0A7
Phone: 604 984 0221 Fax: 604 984 0218 www.alsglobal.com

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



ALS Canada Ltd
 2103 Dollarton Hwy
 North Vancouver BC V7H 0A7
 Phone: 604 984 0221 Fax: 604 984 0218 www.alsglobal.com

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

Page: 2 - A
 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	WEI-21 Recvd Wt. kg	Au-1L42 Au ppm	ME-MS41 Ag ppm	ME-MS41 Al %	ME-MS41 As ppm	ME-MS41 Au ppm	ME-MS41 B ppm	ME-MS41 Ba ppm	ME-MS41 Be ppm	ME-MS41 Bi ppm	ME-MS41 Ca %	ME-MS41 Cd ppm	ME-MS41 Ce ppm	ME-MS41 Co ppm	ME-MS41 Cr ppm
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		0.58	<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	2.9	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	0.68	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	3.8	<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		0.80	0.001	0.13	0.54	2.0	<0.2	<10	70	0.46	0.34	0.10	0.04	87.5	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	0.03	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	2.8	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	1.60	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	0.48	0.11	27.4	1.4	13



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CERTIFICATE OF ANALYSIS VA11150779

Sample Description	Method Analyte Units LOR	MF MS41	MF MS41	ME-MS41	ME-MS41	ME-MS41	MF MS41	ME-MS41	MF MS41	MF-MS41	MF-MS41	MF-MS41	MF-MS41	MF-MS41	ME-MS41	ME-MS41
		Cs ppm	Cu ppm	Fe %	Ga ppm	Ge ppm	In 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	6.7	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	0.08
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	2.8	1.89	3.18	0.05	0.09	0.01	0.023	0.29	33.4	5.1	0.26	511	0.58	0.06
KAT109		0.76	104.0	1.68	2.55	<0.05	0.04	0.02	0.202	0.21	11.6	10.7	0.58	3620	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	0.26	5210	2.72	<0.01
KAT111		3.94	14.8	2.28	2.81	0.06	0.03	0.01	0.548	0.39	27.4	6.5	0.28	3390	4.16	<0.01
KAT112		1.69	2.5	1.75	3.81	<0.05	0.03	0.01	0.022	0.28	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	846	0.23	0.04
KAT148		2.17	1.5	11.60	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	1.8	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	2.83	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		0.80	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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Sample Description	Method Analyte Units LOR	ME-MS41	ME-MS41	MF-MS41	MF-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41
		Nb ppm	Ni ppm	P ppm	Pb ppm	Rb ppm	Re ppm	S %	Sb ppm	Sc ppm	Se ppm	Sn ppm	Sr ppm	Ta ppm	Te ppm	Ti ppm
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	21.6	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	9.9
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	106.0	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	8.6	<0.01	0.06	8.0
KAT121		0.10	0.4	560	21.6	21.2	<0.001	0.02	0.13	0.6	<0.2	<0.2	19.3	<0.01	0.01	18.1
KAT130		0.06	3.3	580	30.6	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	9.6
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	0.6	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	0.18	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	3.8	0.2	0.8	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



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Sample Description	Method Analyte Units LOR	MF-M541	ME-M541	ME-M541	MC-M541	ME-M541	MF-M541	ME-M541	ME-M541	Ag-AA62	Pb-AA62
		Ti %	Ti ppm	U ppm	V ppm	W ppm	Y ppm	Zn ppm	Zr ppm	Ag ppm	Pb %
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	6.62	62	7.2		
KAT103		0.007	0.09	3.63	7	0.16	8.30	93	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	88	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	1490	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	4.69	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	2.85	108	1.9		
KAT118		0.008	0.12	2.97	5	0.10	7.34	20	17.4		
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-07		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		

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



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Account: KILMIN

Project: KAT-11

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).