

# 2013 Assessment Report

Property comprising the following Claim:

## **K 99**

Located in the:

Keno Hill Area

Mayo Mining District

Yukon Territory, Canada

N.T.S. 105M14

UTM NAD 83, Zone 8

Easting: 491,970

Northing: 7,089,330

## **Prepared For:**

Alexco Keno Hill Mining Corp.

of

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Dates Work Performed: August 9<sup>th</sup>, 2013

Date of Report: December 30<sup>th</sup>, 2013

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## 1.0 Summary

Sixteen soil samples were collected from a single line transecting the K 99 claim on the 9<sup>th</sup> of August, 2013.

There were no anomalous values returned.

## 2.0 Introduction

This report summarizes work carried out on the K 99 claim for Alexco Keno Hill Mining Corp. in which sixteen soil samples were collected for the purpose of exploration assessment by Alexco Resource Corp. staff on August 9<sup>th</sup>, 2013.

## 3.0 Location and Access

The K 99 claim is located in the Mayo Mining District, central Yukon approximately 350 km north of Whitehorse (Figure 1). The claim lies on the western slopes of Caribou Hill approximately 300 metres south of the head waters of Hope Gulch. Access is from a series of old mining tracks leading east from Keno City to Hope Gulch. The claim is located at 491,970 East and 7,089,330 North (Figure 2). The base of operations for Alexco from which the work was carried out was Elsa, an abandoned mining town located 14 km west of Keno City on the Silver Trail Highway.

The claim area is covered by NTS map sheet 105M14. All coordinates are in a UTM NAD 83, Zone 8 map projection datum.



Figure 1. General location of the K 99 claim, Yukon Territory.

#### 4.0 Claim Status

The K 99 claim is active. The claim was originally staked in June of 2007 and prior to current work had an expiry date of December 15<sup>th</sup>, 2013. Previous exploration assessment work was completed by Alexco Resource Corp. staff (Anderson et al, 2008). This report is available online through the Yukon Government Energy, Mines, and Resources Branch and is referenced below.

The details for the claim can be found in Appendix 1. A list of personnel and work expenditures are included in Appendices 2 and 3 respectively.

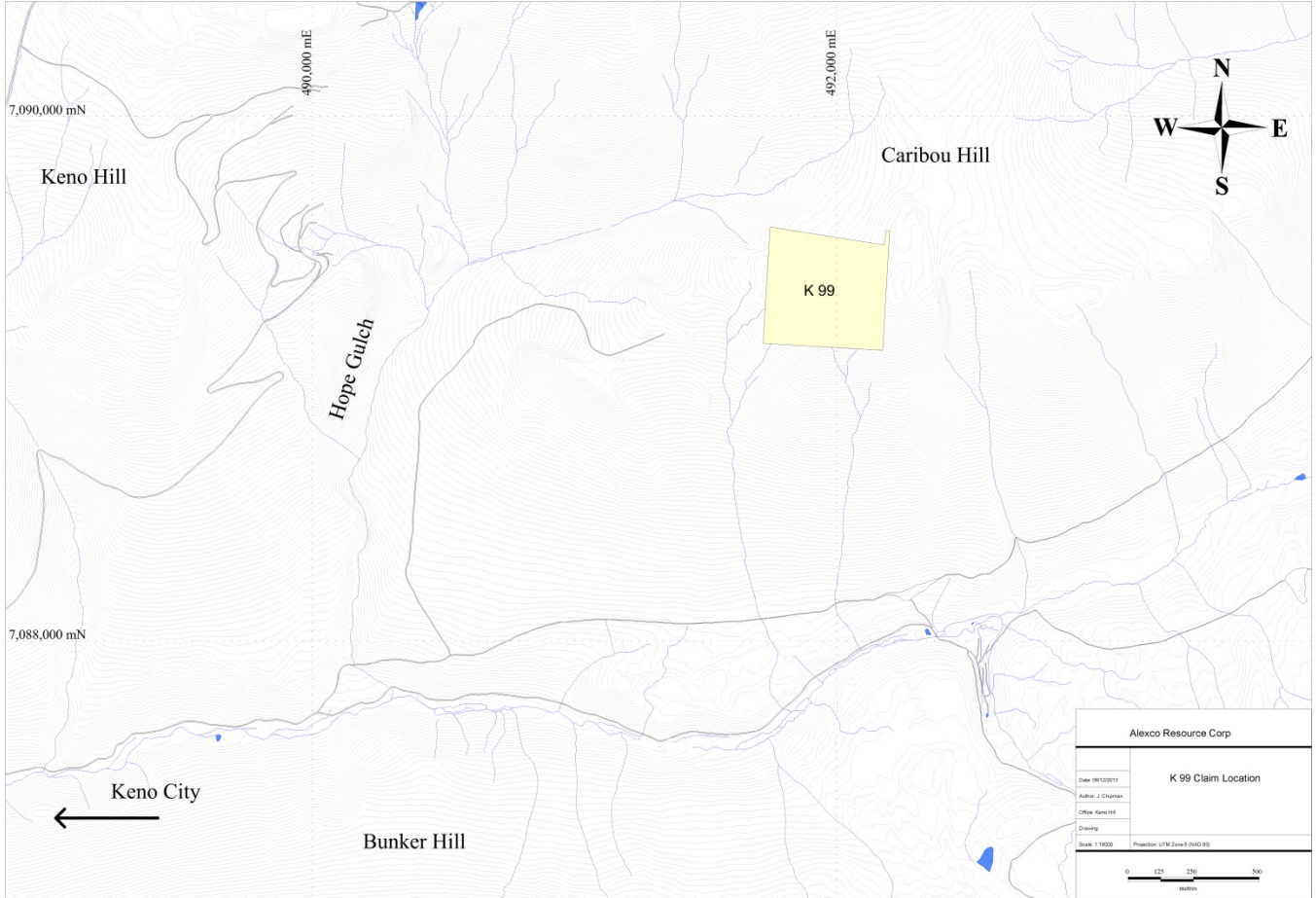


Figure 2. Location of the K 99 claim.

## 5.0 Regional Geology

The Keno Hill area containing the assessed claim is composed primarily of metasedimentary rocks deposited on the Neoproterozoic to Paleozoic continental margin located on the western margin of the Selwyn Basin (Murphy, 1997). These sediments were subject to greenschist facies regional metamorphism during the Jurassic and Cretaceous periods when compressional tectonics produced extensive folding, and imbricated thrust sheets. In the mid-Cretaceous these rocks were subject to further tectonic activity resulting in extensive brittle deformation and emplacement of igneous intrusives.

The Groups that underlie the Keno Hill area and host most of the past producing silver deposits are the Mississippian Keno Hill Quartzite, the Devonian Earn Group, and Triassic meta-gabbroic sills.

## 6.0 Local Geology

Mapping done by Murphy (1997) shows that the K 99 claim is underlain primarily by Keno Hill Quartzite (MKT) with some Earn Group sericite-chlorite schists (DMEVT) in the north-east corner of the claim. The Keno Hill Quartzite is part of an overturned isoclinal limb of a district scale fold bounding the claim to the north-east and south-west by rocks of the stratigraphically lower Earn Group.

A map showing the local geology (Murphy, 1997) is shown in Figure 3 with a legend shown in Figure 4.

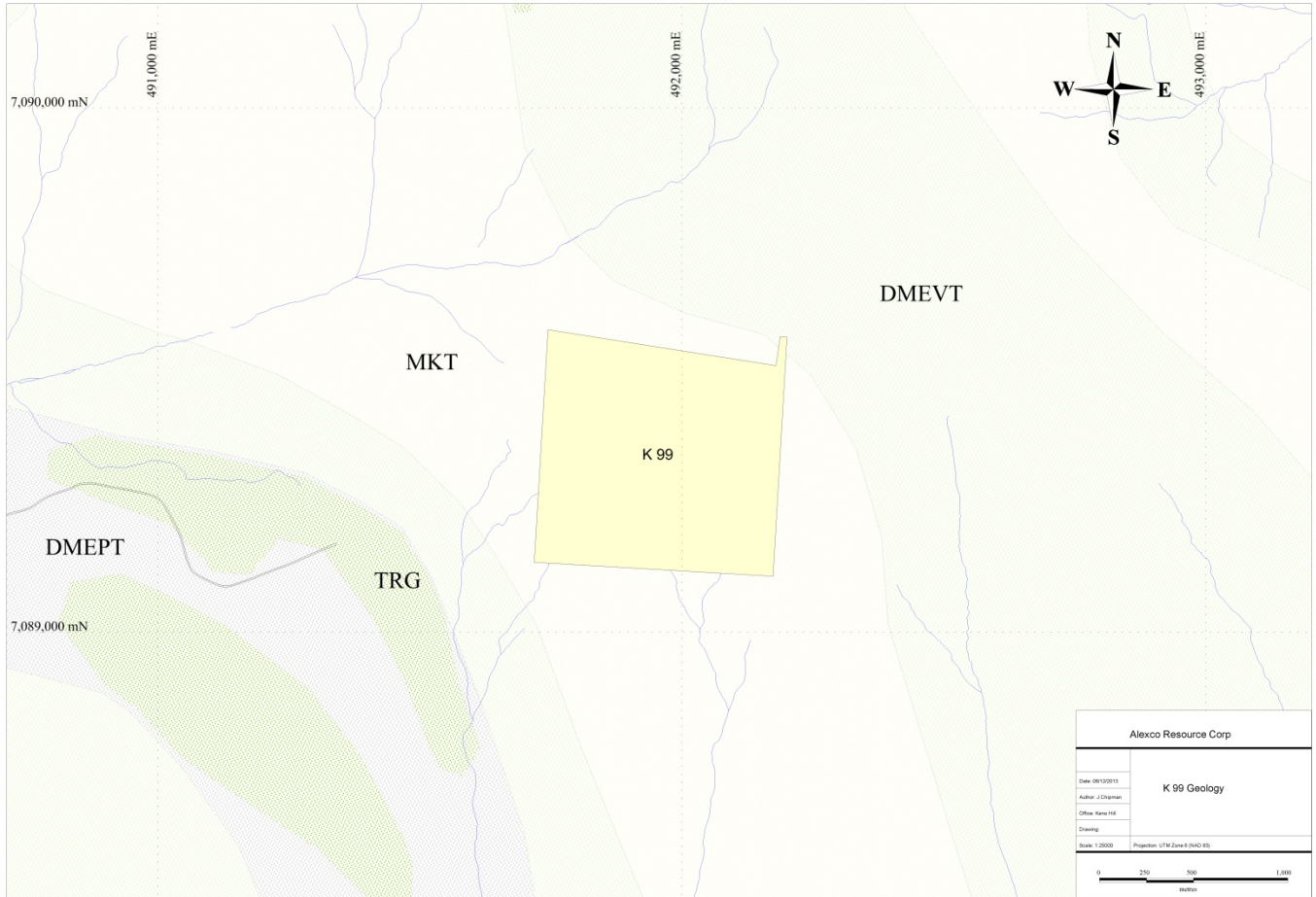
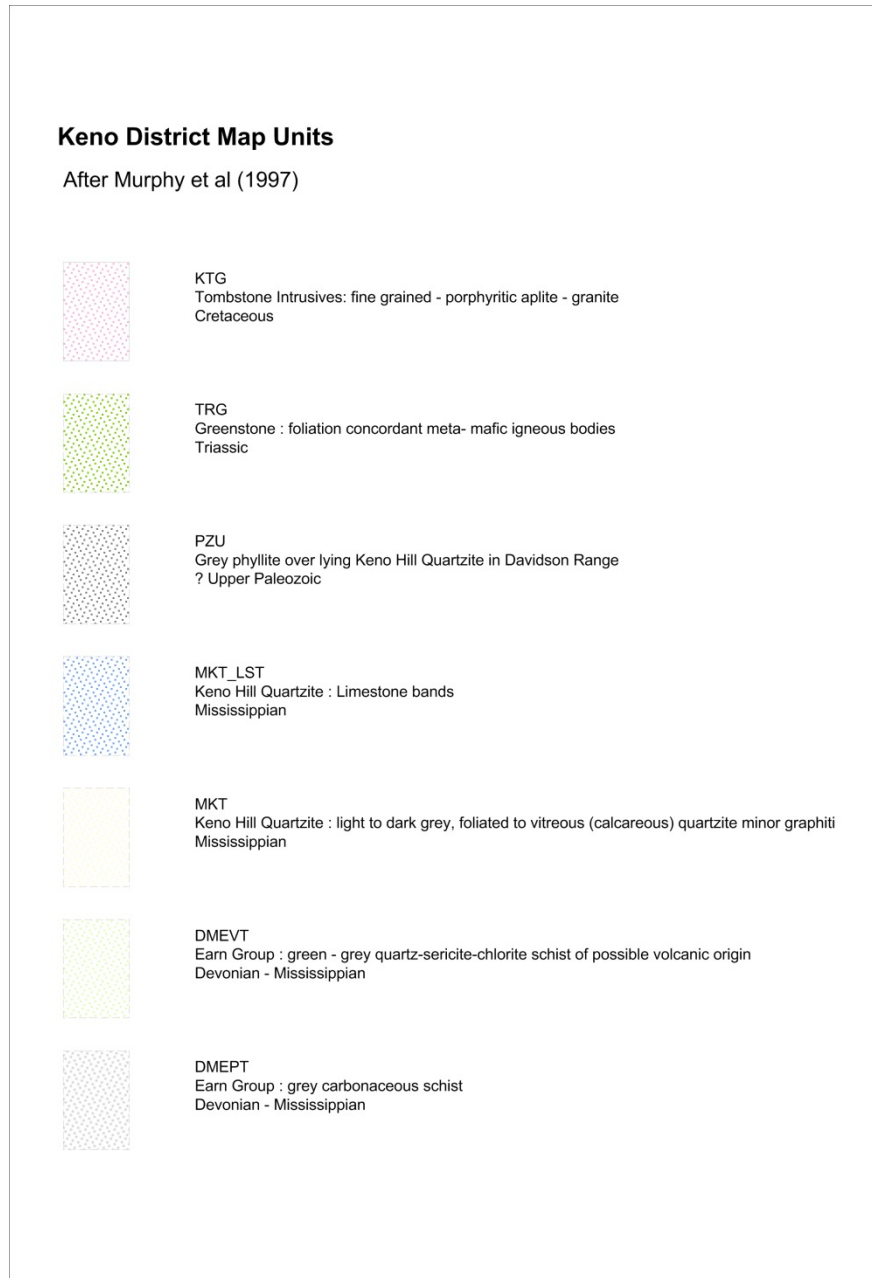


Figure 3. Local geology of the K 99 claim (Murphy, 1997). For legend see figure 4.



*Figure 4. Legend for Murphy, 1997 geology.*

## 7.0 Soil Assessment and Results

One line of soil samples was collected on the K 99 claim (Figure 5). In total sixteen samples were taken at 25 metre centers with the best attempt made to sample the more prospective “B” soil horizon. Samples were taken using a combination of shovels and or trowels and placed in paper sample bags for storage, each marked with its own sample number. All relevant data was recorded in the field then transferred to a digital format as shown in Appendix 4.

All samples were assayed for a 51 trace element analysis by Aqua regia, ICP-MS and ICP-AES by ALS Minerals Laboratory, North Vancouver, BC.

A copy of results, from certificate WH13163141 (finalized on the 23<sup>rd</sup> of September, 2013) is shown in Appendix 5.

## Results

Soil sample assay results are considered to be anomalous if the value is equal to or exceeds twice the established background level for that element. Background element values generally associated with mineralization for the Keno Hill area are:

Ag..... 0.5 ppm  
Au..... 50 ppb  
Pb..... 40 ppm  
Zn..... 100 ppm  
Cu..... 35 ppm  
As..... 50 ppm  
Sb..... 5 ppm

No anomalous samples were returned from the sixteen samples taken on the K 99 claim. Three above background silver and one above background arsenic value were returned with high values of 0.83 and 67.1 ppm respectively.

The location and above background silver values are shown in Figure 5. Table 1 below shows the range of geochemical values received where the maximum silver value is highlighted.



Pt_ME_MS41L_ppm	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Rb_ME_MS41L_ppm	3.46	7.16	5.55	0.89	5.00	5.67	6.10	6.37
Re_ME_MS41L_ppm	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
S_ME_MS41L_pct	-0.01	0.31	0.07	0.10	0.01	0.02	0.06	0.23
Sb_ME_MS41L_ppm	0.96	3.11	1.82	0.62	1.34	1.69	2.36	2.65
Sc_ME_MS41L_ppm	0.14	3.39	1.86	1.08	1.17	1.77	2.89	3.00
Se_ME_MS41L_ppm	0.40	0.90	0.71	0.12	0.68	0.70	0.80	0.80
Sn_ME_MS41L_ppm	0.25	0.85	0.37	0.15	0.29	0.32	0.36	0.48
Sr_ME_MS41L_ppm	8.36	13.80	11.43	1.58	10.56	11.73	12.46	13.03
Ta_ME_MS41L_ppm	-0.01	-0.01	-0.01	0.00	-0.01	-0.01	-0.01	-0.01
Te_ME_MS41L_ppm	0.01	0.04	0.03	0.01	0.02	0.03	0.04	0.04
Th_ME_MS41L_ppm	0.02	4.48	1.44	1.25	0.42	1.53	2.13	2.58
Ti_ME_MS41L_pct	0.00	0.05	0.03	0.01	0.02	0.03	0.05	0.05
Tl_ME_MS41L_ppm	0.08	0.32	0.12	0.07	0.09	0.09	0.12	0.19
U_ME_MS41L_ppm	0.55	1.77	0.96	0.33	0.78	0.88	1.05	1.41
V_ME_MS41L_ppm	23.80	56.80	38.74	8.18	32.70	39.65	41.80	48.10
W_ME_MS41L_ppm	0.14	4.86	0.53	1.16	0.21	0.26	0.29	0.31
Y_ME_MS41L_ppm	2.48	7.19	5.07	1.61	3.71	5.15	6.49	6.82
Zn_ME_MS41L_ppm	36.30	91.00	68.20	18.44	54.45	66.75	84.48	89.15
Zr_ME_MS41L_ppm	0.09	0.73	0.39	0.23	0.21	0.30	0.63	0.71

## 8.0 Conclusions and Recommendations

Much of the K 99 claim is covered in boulders (talus) with little vegetation, primarily moss, due to permafrost. The lack of anomalous values from the K 99 claim may simply be a result of poor soil development. A program is recommended that would test the bedrock lithology and give access to a better sampling medium.

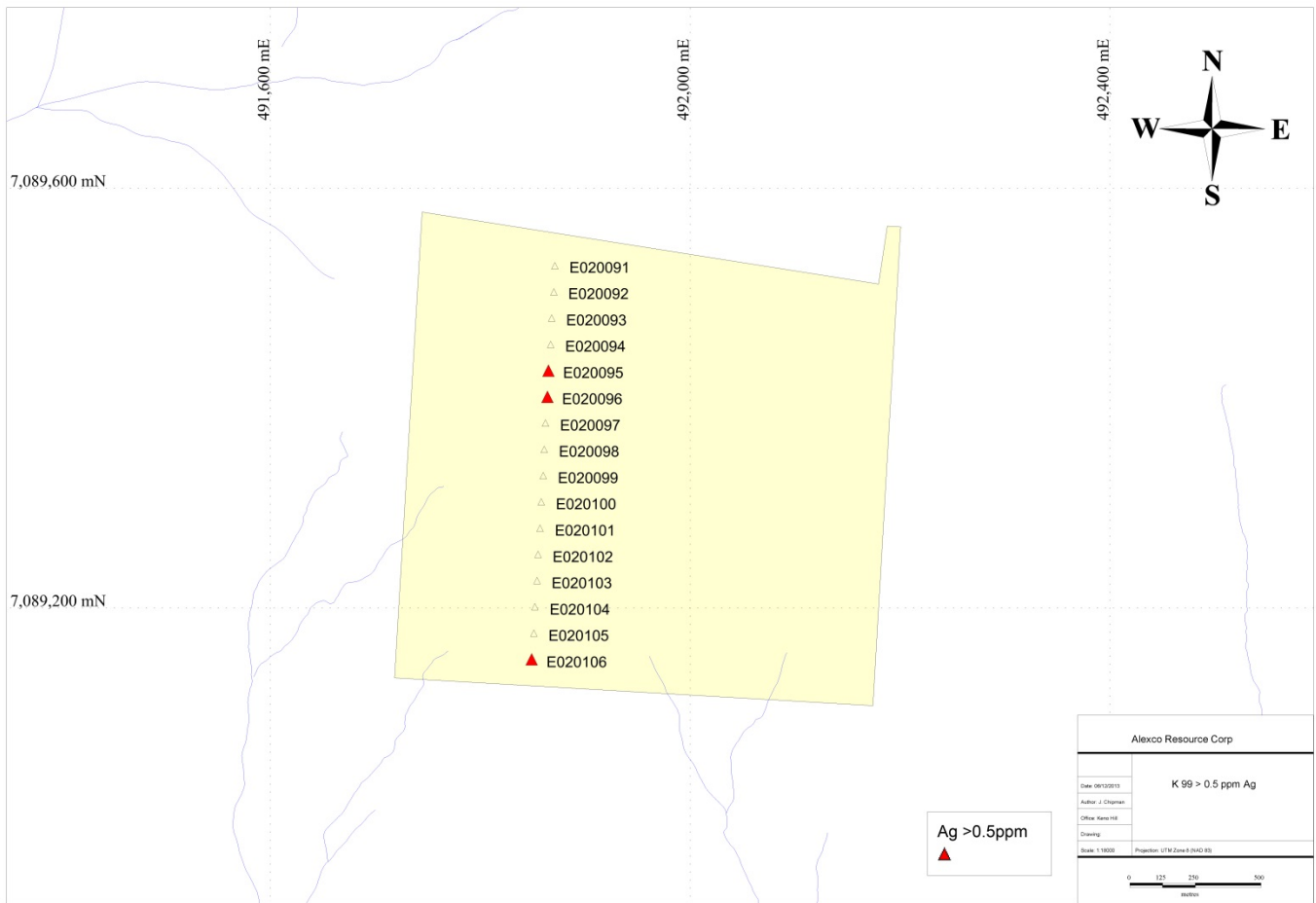


Figure 5. Highlighted symbols show above background silver values from the 16 soil samples taken across the K 99 claim.

## 9.0 List of References

Anderson, K., Lippoth, R., Dodd, S., 2008, 2008 geological, geochemical and XRF assessment report on the Keno Hill property. YGS Assesment Report Reference 095661.

Murphy, D.C., 1997. Geology of the McQuesten River Region, Northern McQuesten and Mayo Map Areas, Yukon Territory (11P/14, 15, 16; 105M/13,14).  
Exploration and Geological Services Division, Yukon, Indian and Northern Affairs Canada, Bulletin 6.

## Appendix 1

### List of claims

Quartz claim	Grant number	Drafting	Regulation	Tenure	Claim label	Owner	Staking date	Recorded date	Expiry date	District
184991566	YC56126	Quartz	Q	Active	K 99	Alexco Keno Hill Mining Corp. - 100%	14-Jun-07	15-Jun-07	15-Dec-13	Mayo

## Appendix 2

### List of Personnel

#### **Jared Chipman**

541 Saunders Road  
Deerfield, Nova Scotia  
B5A 5N7

#### **Dave Slocombe**

#306 – 1685 West 13<sup>th</sup> Ave  
Vancouver, BC

#### **Matthew McMahon**

25 Gadsby Ave  
Welland, Ont  
L3C 1A8

### Appendix 3

#### Statement of Expenditures

Claim name	Grant numb	Owner	Field Staff and Reporting	Camp Overhead	Vehicles - support	Analytical	Est. Total
K 99	YC56126	Alexco Keno Hill Mining corp.	\$723.00	\$228.00	\$55.00	\$530.00	\$1,536.00

### Appendix 4

#### Soil Sample Descriptions

Sample Number	East	North	Claim	Depth (cm)	Horizon	Color	Silt %	Clay %	Organic %	Gravel %	Sand %	Comments
E020091	491871	7089526	K99	5	A	Brown	20	10	40	5	25	Bouldery area, flat moss covered
E020092	491870	7089501	K99	5	B	Grey-Brown	20	25	20	5	25	Frost boil
E020093	491868	7089476	K99	5	A	Brown	10	10	45	5	30	Beside road on boulders, beneath moss
E020094	491867	7089451	K99	10	A	Brown	15	20	40	0	25	Moss covered boulders very little soil
E020095	491865	7089426	K99	10	A	Brown	15	0	60	0	25	Organic layer over boulders
E020096	491864	7089401	K99	5	A	Brown	10	10	55	0	25	Organic layer over boulders
E020097	491862	7089376	K99	5	B	Brown-Grey	25	35	5	5	20	Frost boil
E020098	491861	7089351	K99	5	B	Brown-Grey	25	35	5	10	25	Frost boil
E020099	491860	7089326	K99	30	B	Brown	30	30	5	10	25	Clay / silt rich, beneath boulders
E020100	491858	7089301	K99	5	B	Brown-Grey	15	35	5	15	30	Clay / silt rich, beneath boulders
E020101	491857	7089276	K99	5	C	Grey-Brown	30	5	5	5	25	Frost boil
E020102	491855	7089251	K99	10	B	Brown-Grey	25	40	5	15	15	Frost boil
E020103	491854	7089226	K99	5	A	Brown	10	10	55	10	15	Boulders and moss
E020104	491852	7089201	K99	10	B	Brown-Grey	30	35	5	15	15	Boulders and moss
E020105	491851	7089176	K99	10	B	Brown-Grey	25	15	10	25	25	Side of hill
E020106	491849	7089151	K99	15	A	Brown-Red	10	10	30	25	25	Side of hill

## Appendix 5

### Soil Sample Assays

Sample Number	Wt_WEI2 1 kg	Au_ME_M S41L_ppm	Ag_ME_M S41L_ppm	Al_ME_M S41L_pct	As_ME_M S41L_ppm	B_ME_MS 41L_ppm	Ba_ME_M S41L_ppm	Be_ME_M S41L_ppm	Bi_ME_M S41L_ppm	Ca_ME_M S41L_pct	Cd_ME_M S41L_ppm	Ce_ME_M S41L_ppm	Co_ME_M S41L_ppm	Cr_ME_M S41L_ppm	Cs_ME_M S41L_ppm	Cu_ME_M S41L_ppm	Fe_ME_M S41L_pct	Ga_ME_M S41L_ppm	Ge_ME_M S41L_ppm	Hf_ME_M S41L_ppm
E020091	0.3	0.0021	0.133	1.22	25.9	-10	135	0.29	0.158	0.17	0.257	33.2	6.26	23.6	0.786	16.55	2.2	3.8	0.04	0.007
E020092	0.27	0.0042	0.127	1.35	37.2	-10	94.1	0.36	0.203	0.19	0.336	40.7	7.23	24.3	1.01	21.6	2.32	4.22	0.054	0.018
E020093	0.12	0.0026	0.31	1.09	42.9	-10	189.5	0.24	0.214	0.1	0.346	15.65	4.66	23.4	1.035	15.3	2.01	4.14	0.006	0.005
E020094	0.13	0.0022	0.146	0.96	55.5	-10	166	0.24	0.339	0.08	0.303	17.3	3.7	20.2	1.55	16.25	1.93	4.92	-0.005	0.004
E020095	0.13	0.0036	0.7	0.89	18.95	-10	160	0.25	0.13	0.1	0.403	10.2	2.83	15.85	0.871	14.55	1.32	2.78	-0.005	0.003
E020096	0.11	0.0053	0.834	1.05	41.4	-10	196	0.32	0.168	0.11	0.454	14.5	3.57	17.7	1.175	15.75	1.64	3.1	0.009	0.005
E020097	0.3	0.0048	0.236	1.35	51.2	-10	99.7	0.38	0.201	0.14	0.301	29.7	8	23.6	0.914	22.9	2.39	3.77	0.026	0.014
E020098	0.27	0.0032	0.201	1.31	34	-10	106.5	0.41	0.176	0.15	0.426	32.7	10.7	23.7	0.916	23.5	2.54	3.71	0.024	0.016
E020099	0.23	0.0045	0.294	1.16	49.9	-10	96.7	0.33	0.205	0.13	0.422	22.1	6.72	22.6	1.11	18	2.43	3.96	0.021	0.006
E020100	0.34	0.0055	0.314	1.1	38.7	-10	162.5	0.32	0.182	0.2	0.354	29.5	9.58	21.9	1.445	22.8	2.37	3.2	0.03	0.008
E020101	0.49	0.0017	0.273	0.98	31.2	-10	170.5	0.33	0.17	0.16	0.373	33.8	6.95	19.05	2.43	21.1	2.08	2.71	0.042	0.011
E020102	0.34	0.0043	0.235	1.17	38.9	-10	116.5	0.37	0.198	0.14	0.378	30.8	9.81	21.2	1.735	24.6	2.34	3.61	0.024	0.008
E020103	0.2	0.0068	0.142	1.05	54	-10	89.3	0.25	0.173	0.1	0.273	18.85	5.38	19.05	1.39	15.75	2.09	3.22	0.016	0.005
E020104	0.24	0.0271	0.314	1.29	67.1	-10	167.5	0.29	0.225	0.17	0.489	22.4	7.17	24.4	2.16	17.6	2.37	4.01	0.03	0.005
E020105	0.26	0.0096	0.249	0.96	56.8	-10	74.2	0.3	0.193	0.15	0.414	28.6	8.25	19.4	1.245	16.35	2.25	2.83	0.028	0.019
E020106	0.32	0.0159	0.548	1.22	33.8	-10	59.8	0.26	0.202	0.08	0.29	20.1	6.53	26.4	0.803	16	3.21	4.47	0.023	0.013

Sample Number	Hg_ME_M S41L_ppm	In_ME_M S41L_ppm	K_ME_MS 41L_pct	La_ME_M S41L_ppm	Li_ME_MS 41L_ppm	Mg_ME_ MS41L_pc	Mn_ME_ MS41L_pp	Mo_ME_ MS41L_pp	Na_ME_M S41L_pct	Nb_ME_M S41L_ppm	Ni_ME_M S41L_ppm	P_ME_MS 41L_pct	Pb_ME_M S41L_ppm	Pd_ME_M S41L_ppm	Pt_ME_M S41L_ppm	Rb_ME_M S41L_ppm	Re_ME_M S41L_ppm	S_ME_MS 41L_pct	Sb_ME_M S41L_ppm	Sc_ME_M S41L_ppm
E020091	0.025	0.022	0.04	16.8	10.3	0.33	226	0.89	0.006	0.622	16.55	0.074	10.55	0.001	-0.002	5.61	-0.001	0.01	1.295	2.1
E020092	0.101	0.018	0.04	19.65	10.6	0.33	265	1.01	0.007	0.755	19.75	0.089	10.95	0.002	-0.002	5.73	-0.001	0.01	1.675	2.9
E020093	0.033	0.01	0.04	8.12	3.2	0.12	353	1.64	0.003	0.42	9.65	0.172	12.75	0.001	-0.002	6.02	-0.001	0.21	1.37	0.696
E020094	0.028	0.024	0.05	9.66	2.4	0.08	176	2.05	0.004	0.487	10.45	0.116	10.2	0.001	-0.002	7.16	-0.001	0.12	1.35	0.457
E020095	0.068	0.012	0.04	5.74	2.4	0.1	90.1	1.2	0.006	0.168	8.92	0.27	7.83	0.001	-0.002	5.04	-0.001	0.25	0.964	0.141
E020096	0.07	0.019	0.04	8.65	2.2	0.08	319	1.39	0.007	0.199	9.67	0.281	12.2	-0.001	-0.002	6.32	-0.001	0.31	1.165	0.326
E020097	0.058	0.02	0.04	15.05	10.9	0.36	381	1.07	0.002	0.73	19.55	0.084	14.65	-0.001	-0.002	6	-0.001	0.01	1.61	3.39
E020098	0.04	0.019	0.05	16.05	11.1	0.36	431	1.22	0.005	0.688	21	0.082	15.05	0.002	-0.002	5.9	-0.001	0.01	1.71	3.09
E020099	0.038	0.019	0.04	11.7	9.9	0.31	339	1.31	0.005	0.483	17.75	0.084	15.95	0.001	-0.002	6.38	-0.001	0.03	1.81	1.325
E020100	0.029	0.013	0.04	15.2	10.6	0.33	303	1.19	0.005	0.524	22.2	0.084	15.2	-0.001	-0.002	4.89	-0.001	0.01	2.37	2.88
E020101	0.019	0.009	0.04	17.5	8.1	0.26	250	0.91	0.004	0.49	20.4	0.074	10.95	0.002	-0.002	4.67	-0.001	-0.01	3.11	2.89
E020102	0.028	0.019	0.05	15.75	9.8	0.31	307	1.41	0.005	0.548	22.3	0.089	13.65	-0.001	-0.002	5.34	-0.001	0.01	2.36	2.9
E020103	0.039	0.018	0.04	10.1	8.5	0.28	193.5	0.95	0.002	0.444	16.15	0.051	11.15	0.002	-0.002	5.42	-0.001	0.02	1.77	1.46
E020104	0.101	0.016	0.05	12.05	10.3	0.33	221	1.58	0.006	0.45	19.15	0.077	26.1	-0.001	-0.002	6.35	-0.001	0.04	2.66	1.665
E020105	0.115	0.014	0.04	14.6	9.1	0.26	336	1.1	0.005	0.569	19.3	0.08	12.8	-0.001	-0.002	4.54	-0.001	0.02	2.64	1.865
E020106	0.087	0.026	0.03	10.15	9.2	0.24	343	1.07	0.006	1.235	14.45	0.051	14.65	0.001	-0.002	3.46	-0.001	0.04	1.325	1.635

Sample Number	Se_ME_M S41L ppm	Sn_ME_M S41L ppm	Sr_ME_M S41L ppm	Ta_ME_M S41L ppm	Te_ME_M S41L ppm	Th_ME_M S41L ppm	Ti_ME_MS 41L pct	Tl_ME_MS 41L ppm	U_ME_MS 41L ppm	V_ME_MS 41L ppm	W_ME_M S41L ppm	Y_ME_MS 41L ppm	Zn_ME_M S41L ppm	Zr_ME_M S41L ppm	Ag_Ag_O G46 ppm	Certificate	Date Received	Date Finalized
E020091	0.4	0.29	12.3	-0.005	0.02	1.315	0.045	0.083	0.843	38.6	0.29	5.4	58.9	0.29	0	WH13163141	03/09/2013	23/09/2013
E020092	0.7	0.36	12.4	-0.005	0.03	2.13	0.049	0.085	1.025	41.5	0.29	7.19	69	0.49	0	WH13163141	03/09/2013	23/09/2013
E020093	0.8	0.54	13.8	-0.005	0.02	0.068	0.018	0.122	1.22	49.1	0.309	3.5	45.1	0.19	0	WH13163141	03/09/2013	23/09/2013
E020094	0.7	0.85	11.25	-0.005	0.03	0.057	0.018	0.135	1.105	56.8	0.257	3.27	53.1	0.18	0	WH13163141	03/09/2013	23/09/2013
E020095	0.6	0.31	12	-0.005	0.04	0.019	0.003	0.086	1.595	23.8	0.135	4.08	36.3	0.09	0	WH13163141	03/09/2013	23/09/2013
E020096	0.9	0.37	12.9	-0.005	0.04	0.052	0.004	0.121	1.765	32.1	0.159	6.35	42.7	0.14	0	WH13163141	03/09/2013	23/09/2013
E020097	0.7	0.33	10.3	-0.005	0.01	2.13	0.046	0.091	0.915	41.2	0.318	6.99	90.9	0.71	0	WH13163141	03/09/2013	23/09/2013
E020098	0.8	0.36	11.15	-0.005	0.04	2.1	0.047	0.092	0.943	42.7	4.86	6.62	87.4	0.66	0	WH13163141	03/09/2013	23/09/2013
E020099	0.6	0.31	9.68	-0.005	0.02	0.536	0.033	0.095	0.729	40.7	0.256	3.78	83.7	0.26	0	WH13163141	03/09/2013	23/09/2013
E020100	0.8	0.31	13.15	-0.005	0.04	2.65	0.037	0.089	0.877	34.8	0.248	6.34	83.2	0.4	0	WH13163141	03/09/2013	23/09/2013
E020101	0.7	0.26	11.45	-0.005	0.04	4.48	0.035	0.08	0.859	30.8	0.197	6.45	64.5	0.73	0	WH13163141	03/09/2013	23/09/2013
E020102	0.8	0.28	10.65	-0.005	0.02	2.03	0.041	0.104	0.792	36.9	0.23	6.64	86.8	0.29	0	WH13163141	03/09/2013	23/09/2013
E020103	0.6	0.28	8.58	-0.005	0.02	0.568	0.027	0.081	0.548	32.9	0.183	2.81	63.1	0.3	0	WH13163141	03/09/2013	23/09/2013
E020104	0.7	0.42	12.65	-0.005	0.02	0.681	0.03	0.318	0.877	40.9	0.268	4.3	91	0.22	0	WH13163141	03/09/2013	23/09/2013
E020105	0.8	0.25	12.2	-0.005	0.03	2.51	0.032	0.254	0.689	29.9	0.22	4.89	80.6	0.62	0	WH13163141	03/09/2013	23/09/2013
E020106	0.7	0.33	8.36	-0.005	0.03	1.75	0.045	0.093	0.606	47.1	0.285	2.48	54.9	0.7	0	WH13163141	03/09/2013	23/09/2013

**Appendix 6**  
**Statement of Qualifications**

Jared Chipman

I Jared Chipman do hereby certify the following:

1. That I am a professional geologist registered with the Association of Professional Geoscientists of Nova Scotia (APGNS). Member # 180
2. That I am employed as a geologist by Alexco Resource Corp.
3. That I am a graduate in geology holding a BSc (Hons) from Saint Mary's University in Nova Scotia, Canada and an MSc from Queens University in Ontario, Canada.
4. That I have been practicing geology in Canada for approximately 7 years.
5. That I am a member of the Society of Economic Geologists.
6. That I was involved in the supervision of this work conducted in August of 2013.
7. That I have no interest in the property described herein, nor do I expect to receive any such interest.

Dated at Elsa, Yukon on this \_\_\_\_\_ day of \_\_\_\_\_, 2014