GEOLOGICAL AND GEOCHEMICAL REPORT

IN SUPPORT OF

2015 Exploration Program funded under the Yukon Mineral Exploration Program

KELLI CLAIM GROUP

Whitehorse Mining Division

NTS: 115G/12 61°33′ N Lat., 139°37′ W Long.

Report by: G. Gutrath, Geologist, P.Eng.

Date: February 15, 2016



Dennis Dickson unloading his 8 wheel Argo from the trailer with the assistance of Lorne Smith at the Kluane First Nations community, Burwash Landing

INTRODUCTION AND ACKNOWLEDGEMENTS

This report is written on behalf of the claim owners listed in Appendix H.

The time spent on the property and the cost of the program is outlined in Appendix G.

The writer carried out geological mapping and sampling programs on the property in 2011, 2013, 2014 and 2015. This work continued in 2014 and was expanded to include geochemical soil and silt sampling. This report summarizes the general property information that is given in much greater detail in the 2012 Geological Report, dated January 16, 2012. The focus of this report is on the results of the 2015 field work but also incorporates data from the 2014 program.

The writer was ably assisted in the field by Mr. Fred Erler, one of the claim owners. Mr. Lorne Smith of Haines Junction, Mr. Dennis Dickon of Burwash Landing and Mrs. Louis Bouvier of Destruction Bay provided transportation and logistical support for the field program.

Many thanks to Dr. Dave Hildes of Aurora Geosciences Ltd. for reviewing the Kluane Lake West Airborne Magnetic Survey, YGS Open File 2015-18 and his recommendation for ground geophysical programs. The hard copy of this survey was provided to the writer on June 1,2015 by Derek Torgerson, manager of the YMEP program. Mr. Torgerson has been very patient and helpful in guiding the writer through the requirements of the YMEP program. Unfortunately, the writer has still not mastered scheduling.

A final thanks to Glenna Southwick, Mining Recorder and very helpful staff for assisting in the successful completion of the Class 1 Notification for the Kluane First Nation and the White River First Nation.

In closing, without the financial support of the YMEP program the scale of the 2015 exploration could not have been achieved by the diverse group of mostly second generation and very senior claim owners.

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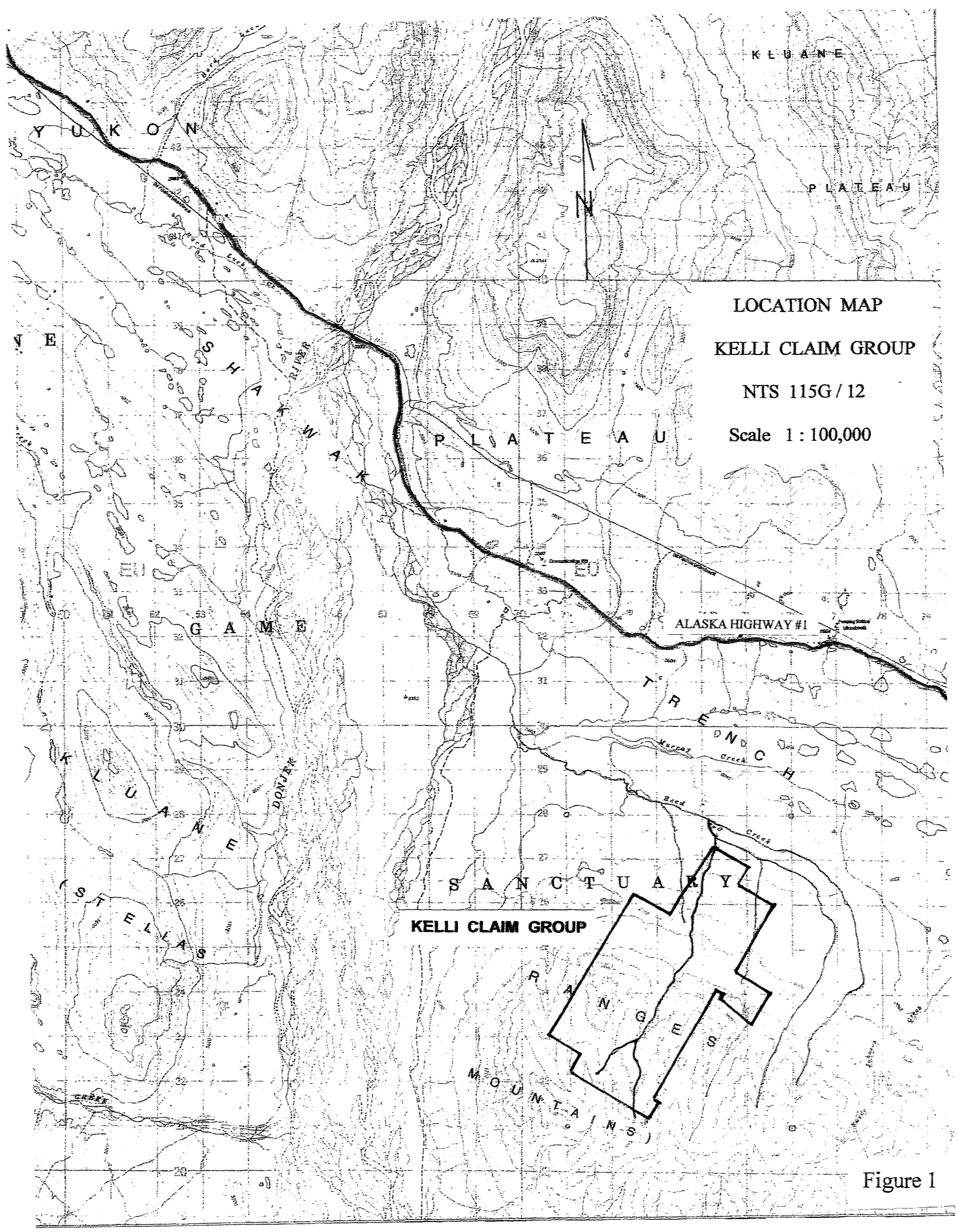

KLUANE
PLATEAU
YUKON
N
LOCATION MAP
KELLI CLAIM GROUP
NTS 115G / 12
Scale 1 : 100,000
SHAKWAK RIVER
PLATEAU
ALASKA HIGHWAY #1
TRENCH
Murray Creek
Road
Creek
GAME
KLUANE
DONJEK
STELLA
SANCTUARY
KELLI CLAIM GROUP
RANGES
MOUNTAINS
CREEK

Figure 1

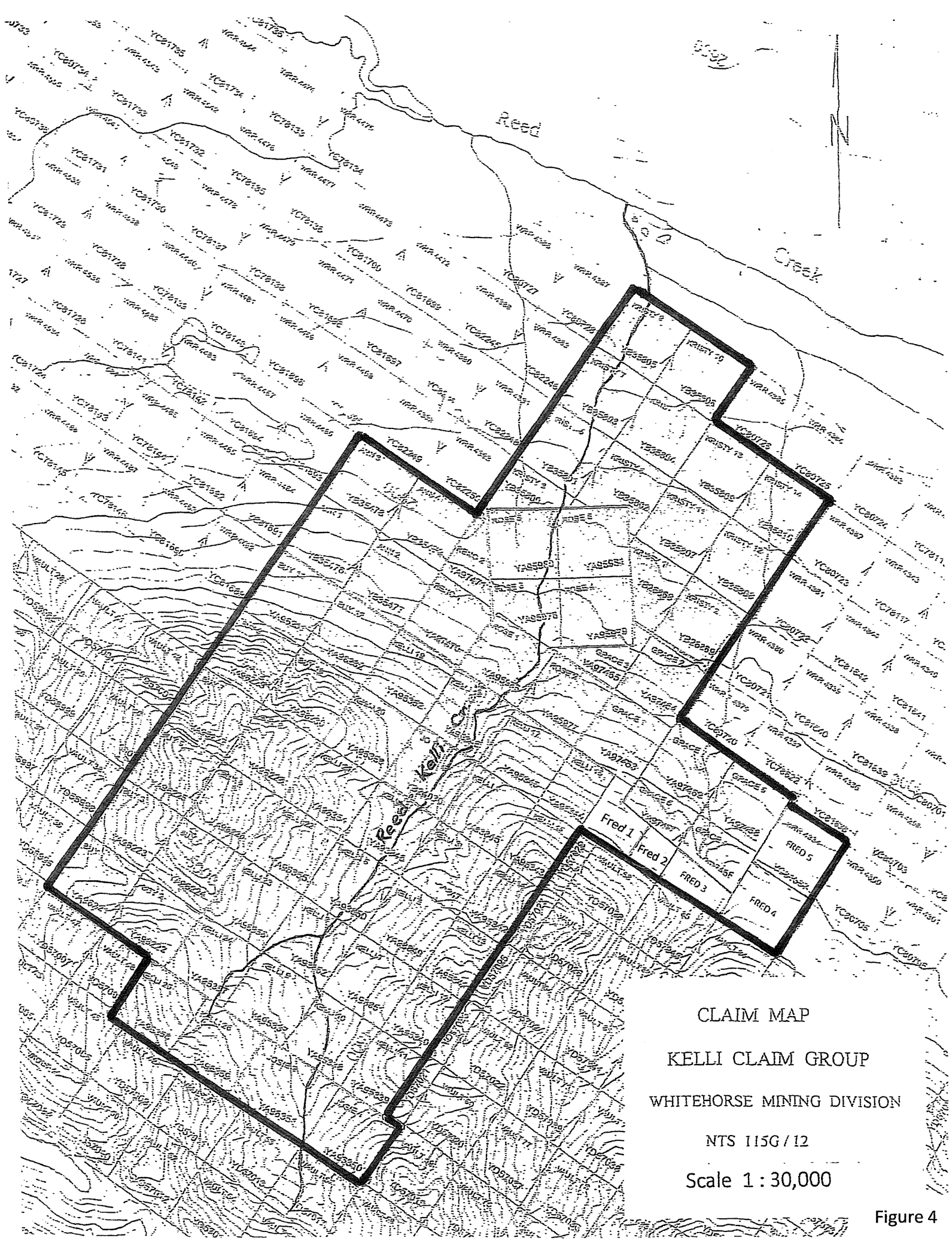

Reed
Creek
Reed Kelli Cr
Fred 1
Fred 2
FRED 3
FRED 4
FRED 5
CLAIM MAP
KELLI CLAIM GROUP
WHITEHORSE MINING DIVISION
NTS 115G/12
Scale 1 : 30,000

Figure 4

LOCATION

The Kelli Claim Group is located on the northwest facing slope of the Kluane Range and is within the Kluane Game Sanctuary. The centre of the Kelli Claim Group is approximately UTM Coordinate 682400 N 573000 E, Zone 7, NAD 83 located on NTS Map 115/12.

PHYSIOGRAPHY

The Kelli Claim Group is centered on a north-northwesterly flowing tributary of Reed Creek (Reed-Kelli Creek) that joins the westerly flowing Reed Creek proper on the south side of Shakwak Trench. The south boundary of the Kelli Claim Group is at an elevation of 4,500 feet (1,372 m) and the north boundary is at an elevation of 2,600 feet (792 m).

The primary focus of historic mineral exploration and placer gold mining has been within the steep 'V' walled canyon referred to as the Lower, Middle and Upper Canyon that extend over a distance of 1000 m and over an elevation interval of 150 m.

Vegetation is predominantly stunted black spruce in areas of muskeg (permafrost). Tall, large diameter spruce border the thawed outwash channel. The Canyon area of Reed-Kelli Creek is bordered by thick alder as well as the adjoining slopes to an elevation of 4,000 feet (1,220 m). At an elevation above 5,000 feet (1,524 m) open grassland and willow predominate representing an alpine environment.

CLIMATE

The Kelli Claim Group is located on the east flank of the St. Elias Mountains and in theory is protected from direct coastal weather. However, weather is funneled from the coast along the low valleys that follow the Denali Fault/Shakwak Trench. As a result, there is considerable yearly variation in summer rainfall. Both the summer of 2011 and starting in July, 2013 the rainfall was abnormally high. In 2014, during the August exploration program weather conditions were ideal. There were only a few rain showers and the creek levels were low.

The range of annual temperature in the Kluane Lake area is -20°C in December, the coldest month to +13°C in July, the warmest month of the year.

The average annual rainfall is 20 cm and snowfall is 18 cm. The Reed-Kelli Creek area is at a higher elevation and will have colder winter weather and greater accumulated snowfall and rain.



This unique aerial photograph was prepared by the late Larry Tremblay the original 'staker' of the Kelli Claim Group. He gives the place names of the numerous subparallel creeks that flow north east from the front- range of the St Elias Range towards the Shakwak Trench-Denali Fault.

Figure 1



Figure 2

ACCESS

The turnoff from the Alaska Highway to the winter heavy equipment trail/summer ATV trail is at UTM coordinate 580651 E 6830392 N, 340 km west of Whitehorse or 170 km from Haines Junction. The trail crosses 10 km of the Shakwak Trench through continuous swamp, skirting small lakes and crossing three streams reaching the Reed-Kelli Creek gravel fan at approximately 3 km from the campsite.

Helicopter service is available from Haines Junction with a suitable staging area on the Alaska Highway at Mile 1118. There is a good helicopter pad at the campsite.

In 2014 access from the Alaska Highway was provided by an 8 wheel Argo off-road vehicle rented from Mr. Denis Dickson of Burwash Landing. Mr. Lloyd Smith operated the Argo, carrying approximately 300 kilos of supplies and navigating the Shakwak Swamp and the washed out road to the Kelli Camp with no problems. The road from the Reed-Kelli Creek fan to the camp was built in the 1990s and was in good condition in 2011. However, in 2013 the road was 90% destroyed by a flash flood making it very slow and difficult to gain access to the Kelli Camp. On site transportation was provided by two ATVs that followed the Argo into the property.

The access trail from Highway 1 to the Kelli Camp is shown on Map 3.

HISTORY

The Reed-Kelli Creek has had a long history of placer gold mining starting in the early 1900s and again in the period 1935 to 1939. The more recent mining was carried out by Dublin Gulch Placers under the onsite direction of Darrel Duensing between1983 and 1988. Overall production from the creek gravels is very uncertain but is probably in the range of 3,000 to 5,000 oz. of gold.

Larry Tremblay, project manager and claim owner, carried out an extensive trenching program in the Lower and Middle Canyons. In 2004 Mr. Tremblay and associates drilled five BQ holes in the Lower Canyon.

Some additional historical information was provided by Mr. Lorne Smith of Haines Junction, a long time resident of the area. Mr. Smith has placer and quartz claims on Swede Johnson Creek 4 km to the southwest of Reed-Kelli Creek. In 2003 – 2004 Mr. Smith carried out some bulk placer tests between the Lower Canyon and campsite and found areas of good placer gold values. In 2004 his equipment was used to move the drill. He was very helpful in confirming the location of the 2004 drill holes. In addition, he stated that when Larry Tremblay first located the property there were numerous old placer workings and possibly underground workings. Mr. Smith referred to the location of a ladder at WP66 573393 E 6824638 N on the east side of the creek that went up the edge of the large outcrop and led to underground mine workings 7 m to 10 m above the level of the creek gravels.

Access to Kelli Claim Group from Hwy 1

Whitehorse Mining Division

Donjek River- Reed Creek Area, Yukon

NTS 115G12 UTM Zone7 NAD 83

SCALE 1 : 30,000

FIGURE 3

The History section pages 3, 4 and 5 in the writer's 2012 Report gives a more detailed description of the early work done on the Reed-Kelli Claim Group area.

REGIONAL GEOLOGY

The Kluane Range forms the northeast margin of the St. Elias Mountains that are predominantly underlain by a thick sequence of mainly layered Paleozoic strata that have been highly altered and deformed. The property is bordered to the north by the Denali Fault that occupies the Shakwak Trench. To the southwest of the Shakwak Trench in the Quill Creek – Donjek River area the strata has been intruded by granitic to ultramafic bodies. The Quill Creek ultramafic hosts a nickel-copper deposit with PGE values.

In the Kelli Claim Group area of the Kluane Range the predominant rocks are Permian Pennsylvanian andesites covered by shales and thin bedded limestone. These units are repeated by a complex series of faults. Oligocene dikes in the area have been sheared indicating that the faulting is Tertiary or younger (T. Bremner, 1990).

The Denali Fault has formed the northeast facing slope of the front range of the St. Elias Mountains in the Kelli Claim Group area and has influenced the emplacement of the sub-parallel intrusive bodies in the Lower to Upper Canyon of Reed-Kelli Creek. These intrusive bodies are related to a 'structural kink' in the stream drainage both to the west and east of Reed-Kelli Creek over a distance of 8 km and subparallels the trend of the Denali Fault. This "kink" is an important reference point for the start of placer gold deposits in these creeks.

2015 EXPLORATION PROGRAM

The 2015 exploration program on the Kelli Claim Group is made up of three overlapping programs. Geological Mapping on a scale of 1:000, Geochemical Soil and Silt Sampling plotted on a 1:3000 base map, and also on the 1:000 scale map. The 1:3000 scale base contour map with 2014 UTM waypoints was prepared by Underhill Geomatics Ltd., Whitehorse, YT. The first phase of the 2014 program was an evaluation of the placer gold potential with data plotted on a scale of 1:2000. The placer gold evaluation is the subject of a separate report.

Geological Mapping, Geochemical Soil and Silt Sampling

The geological mapping program was carried out between August 20 and August 28, 2014. Survey control for mapping the outcrop geology and surficial features was by Garmin 78S attached to a Garmin antennae mounted in a pocket on the back of a field survey vest. The GPS is strapped to the forearm and is in continuous operation to minimize the time to get maximum satellite reception. The outline of rock outcrops, physical features and geology are plotted directly in the field on prepared mylar grid sheets in an aluminum folder. Waypoints are recorded to establish the location of data describing geological observations, sample locations, etc. and are recorded in a field notebook.

The geochemical soil and silt sampling program was carried out in part with the geological mapping. Soil and silt sample locations were surveyed using the Garmin 78S. Sample locations were marked and flagged. The

descriptions of the samples were recorded on forms in the field notebook and have been copied and filed under Appendix B.

In 2014 the geological mapping on a scale of 1:1000 was primarily in the Lower Canyon by Reed-Kelli Creek. A total of 15 samples were collected for analysis by Bureau Veritas Labs.

A total of 55 soil samples and 43 silt samples were collected for analysis by Bureau Veritas Labs.. The sample locations are plotted on the 1:500 scale Map 1 and the 1:3000 scale Map 2.

Weather conditions were variable with numerous periods of heavy rain. Water levels in the creeks were high requiring bridges to be repaired a number of times crossing creeks in the Shakwak Trench.

The 2015 exploration program was a continuation of the 2014 program and the planned work is outlined in the Geological and Geochemical Report in support of 2015 Application for Funding under the Yukon Mineral Exploration Program, Kelli Claim Group, Whitehorse Mining Division, by G. Gutrath, March 6, 2015 (the "Report"). The Recommendations in the Report, page 20, are listed below:

1) Continue the geological mapping on a scale of 1:1000 from where it ended in the Lower Canyon, up through the Middle Canyon and Upper Canyon to Structure 2. The mapping will include extensive sampling of prospective sulfide-mineralized structures in the Middle Canyon.

2) Map on a scale of 1:2000 from Structure 2 where it crosses Reed-Kelli Creek upstream to the Forks a distance of 1 kilometre. Collect soil samples along the banks of the creek where there is thawed soil. Silt sample springs coming out of the bank.

3) Silt sample streams flowing northerly across the trace of Structure 1 to the east from Reed-Kelli Creek to Reed-Kelli Creek. Collect soil samples where it is possible to get a representative sample.

4) Trench and sample the Pautler Trench 01-6 referred to under Conclusion and continue the trenching and sampling to the north to connect with the section sampled in 2011.

2015 Exploration Program with Reference to the Recommendations in the March 6, 2105 Report

1) The geological mapping on a scale of 1:1000 was continued from the Lower Canyon to the Middle and Upper Canyon. In order to include as much data as possible from the Lower and Middle Canyon the map scale was enlarged to 1:500 (Map 1 – 2015). Rock samples, rock specimens, geochemical soil and silt sample locations are plotted on this map.

2) Instead of mapping on a scale of 1:2000 the mapping continued from the Upper Canyon to the Forks on a scale of 1:1000. The geological mapping is an ongoing work in progress as it was slow because of thick alder

on both sides of Reed-Kelli Creek. A trail was power sawed out on the west side of the creek to the Forks and limited geological mapping and geochemical sampling was completed.

3) Silt samples were collected from streams flowing northerly across the track of Structure 1 to the east from Reed-Kelli Creek to Reed-Allan Creek.

4) Pautler Trench 01-1 (2014 Sample H1 to H5) was partially resampled by panel sampling (2471 to 2474). The purpose of the panel sampling that encompasses an area much larger than a channel sample was carried out to see if widely disseminated coarse gold was being missed by the channel sampling. The original location of the Pautler Trench 01-6 (Photo) was exposed by the D8 bulldozer. Continuous panel samples 2476 to 2499 and 100 to 108 were collected along the road/west rock face for a distance of 20 m. A total of 33 samples were bagged, each weighing in the order of 8 kilos to 12 kilos (±330 K – 728 lbs).

The sample analysis was by Bureau Veritas Mineral Laboratories using ICP-MS analysis of a 30g test weight, AQ200 detection for 36 elements.

PROPERTY GEOLOGY

General

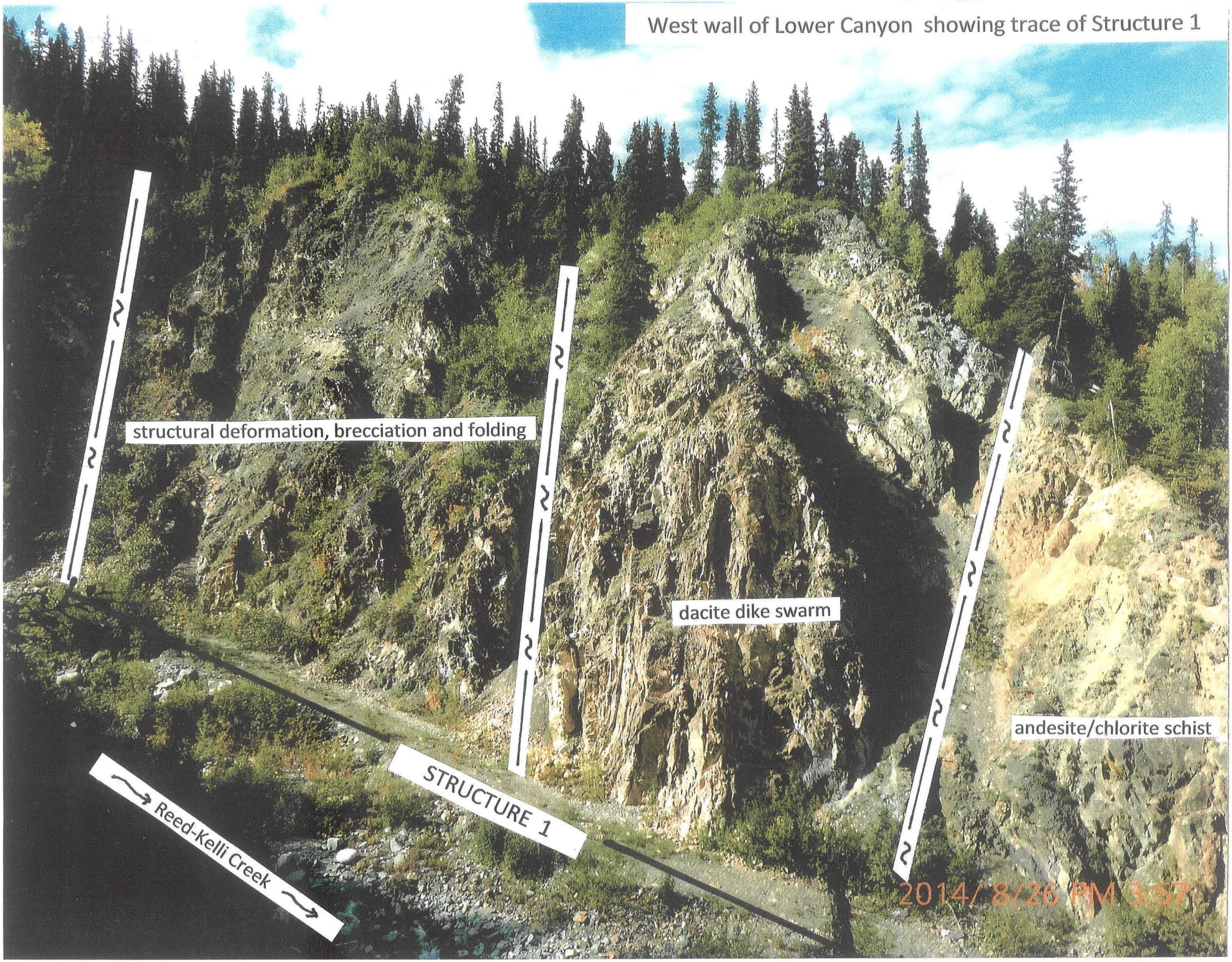
The primary objective of the 2014 and 2015 program was to continue the geological mapping on a scale of 1:1000 through the Lower Canyon and sample prospective mineralized zones. The division of the geology into Statigraphy and Intrusive units was outlined in the 2012 and 2013 reports and supported by the work done by Dr. Gettsinger and Mr. Bremner.

Statigraphy

The layered rocks exposed from the camp area upstream to the Middle Canyon (Geology Map 1 1:1000, 2013) are divided into four units designated **pc** (phyllitic carbonate), **gs** (greenstone/meta volcanic), **gs (fp)** (subvolcanic greenstone and/or an intrusive feldspar porphyry), and **bgpl** (black graphitic phyllite with interbedded limestone). These units have been interpreted as being Pennsylvanian to Permian in age and part of the Skolai Group. The writer divided the **gs** unit into **gs** and **gs(fp)** to differentiate the marked contrast between the two units:

gs dark brown adesite often foliated to a chloritic schist, highly fractured with pyrite content from 1% to 10%, pyrrhotite trace to 1% and magnetite 1%. Widely spaced, flat pyritic quartz veins of variable width cut across the unit.

gs(fp) grey, possibly subvolcanic fine-grained to porphyritic andesite or instrusive with blocky, course fracturing with less than 1% pyrite.


West wall of Lower Canyon showing trace of Structure 1
structural deformation, brecciation and folding
dacite dike swarm
andesite/chlorite schist
STRUCTURE 1
Reed-Kelli Creek
2014/ 8/26 PM 3:57

The **bgpl** unit is the principal unit downstream from the Lower Canyon to the campsite.

Intrusive Rocks

The layered rocks are intruded by dikes and sills of Oligocene to Miocene age (date of 23 Ma, ref. Bremner, 1991). Both Getsinger and Bremner agree that this intrusive is a feldspar hornblende porphyry. The writer mapped the intrusives as two separate rock types.

dd light orange weathering dacite dike, fine grained to aphanitic with an absence of porphyritic texture. In the fresh, fine grained dacite crystalline hornblende "blades" make up 1% to 2% of the ground mass

fp light grey subhedral medium grained feldspar phenocrysts in an aphanitic to fine grained feldspar rich ground mass.

2015 MAPPING OF OUTCROP GEOLOGY IN THE LOWER CANYON, MIDDLE CANYON AND START OF THE UPPER CANYON, REED-KELLI CREEK AND GEOLOGY NOTED WHILE CARRYING OUT THE GEOCHEMICAL SAMPLING, SAMPLE LOCATION AND ANALYSIS, HAND SPECIMEN LOCATION AND DESCRIPTION, STRUCTURE, METAMORPHISM AND MINERALIZATION

The outcrop geology in the Lower Canyon was described in the 2104 Report and is included as follows:

"Detailed outcrop geology mapped on a scale of 1:1000 was limited to the Lower Canyon of Reed-Kelli Creek. At the downstream (north) start of the Lower Canyon massive cliffs rise on both sides of the creek. The first resistant unit is an andesite/chlorite schist interlayered to the north with platy (bedded) light grey-brown siltstone, fissile biotite-mica schist and beds of graphitic argillaceous schist. The schitosity is predominantly 295° dipping 80° to 85° to the north. Fine grained pyrite, 1% to 3%, is disseminated in these units or associated with thin irregular quartz veining.

The andesite/chlorite schist unit is in contact to the south with a dacite dike swarm interlayered with fissile graphitic limey argillite from 1 m to 1.5 m thick. The overall thickness of the dike swarm is in the order of 20 m and strikes 290° and dips steeply. It is part of Structure 1 outlined on Map 1 and is part of a regional structure that forms a "kink" in the drainages both to the northwest and southeast. In all these drainages such as Reed-Allen Creek (Map 2) and Swede Johnson Creek the "kink" is associated with placer gold deposits.

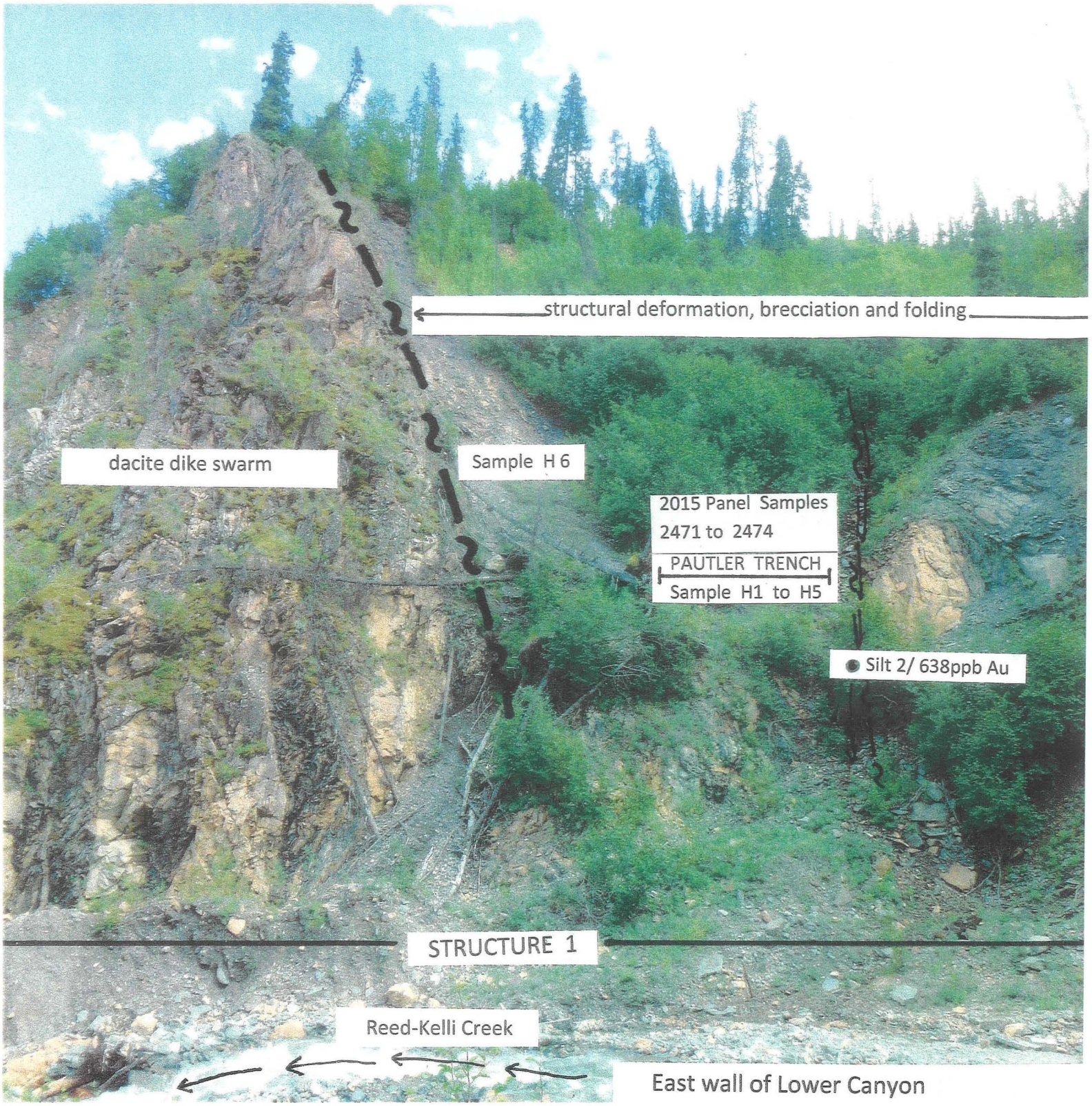
The overall width of Structure 1 in the Lower Canyon, including the dacite dike swarm just described, is in the order of 60 m. It is bordered on the south by a competant feldspar porphyry dike and andesite/chlorite schist. The central "core" of Structure 1 borders the dacite dike swarm to the south and is in the order of 30 m thick. It is very well exposed on the steep outcrop face on the west side of the Lower Canyon. It is a major

zone of deformation with massive large scale cataclastic brecciation of the more competant altered dacite dikes and beds of limey graphitic sediments that have been 'folded' and dislocated. Both south and north contacts of this deformational "core" are bordered by steep, +30° to 40° gullies. The north contact with the massive dacite dike is very distinct on the east side of the creek and is in the order of 5 m wide. On the lower part of the outcrop the contact zone is largely obscured by talus but at a higher elevation the talus thins and the contact zone can be seen and is composed of narrow, broken lentincular dacite dikes, largely altered to a quartz sericite carbonate, a cream coloured rock interbedded with black limey argillaceous schist. Thin quartz veinlets are common with 1% to 2% fine grained pyrite associated with quartz and disseminated in the ground mass.

The Lower Canyon on the east side of the creek has been the focus of a great deal of exploration. Larry Tremblay reported that there were old workings in this part of the Lower Canyon that could be seen prior to the mechanized placer mining in the 1980s. One of the more notable workings was a drift accessible from the canyon floor by a ladder located in the area of the Pautler Trench01-1 shown on Map 1. The trench was sampled over 8.25 m to test the general area of the drift (Pautler, 2001). The writer cleaned out the trench and resampled it as well as the talus slope section between the trench and the massive dacite dike to the north. Pautler took 8 samples from the trench and the gold values ranged from 5 ppb Au to 30 ppb Au. The 30 ppb Au was associated with 110 ppm As and we taken over a width of 0.8 m."

The 2014 and 2015 sampling of the Pautler Trench 01-1 is located on Map 1-2015 between WP 218 (573388 E 6824617 N) and WP 219 (57338__ E 6824625 N). The trench location is also shown on the photograph of the east wall of the Lower Canyon. The following is the description of the sampling in 2014.

Specimen #	**Waypoint #**	**UTM Coordinates**		**Description Start of Sampling North end of Pautler Trench**		
		East	**North**	**Interval**	**Number**	**Width**
H1	219	3388	4625	0.00 to 1.22 m	H1	(1.22 m)
H2				1.22 to 3.04 m	H2	(1.82 m)
H3				3.00 to 4.10 m	H3	(1.06 m)
H4				4.10 to 5.31 m	H4	(1.21 m)
H5	218	3388	4617	5.31 to 6.53 m	H5	(1.21 m)
				Talus slope sample	H6	
H6	220	3395	4621	**H6 (most northerly sample in series)**		



The Pautler Trench sample location for 2014 H1 to H5 and the 2015 panel sample 2471 to 2474 are outlined on the photograph.

The entire width of the photo is considered part of the regional Structure 1 shown on Map 1-2015

Specimen #	Waypoint #	UTM Coordinates		Description Start of Sampling North end of Pautler Trench
	221	3395	4623	WP 220 to 221 (H6) is a collection of talus fragments between WP 219 and the massive dacite dike to the north. The sample is made up of graphitic-limey argillaceous fragments and highly altered felsic dacite dike, quartz stringers, fine grained pyrite 1% - 5%. 21.4 ppm As, 2.5 ppb Au
H1				Black platy limey argillite with quartz veinlets 1 cm to 10 cm in width. 1% to 3% pyrite. 60.8 ppm As, 3.4 ppb Au
H2				50% orange-cream irregular felsic highly altered dacite dike and 50% black limey argillite, quartz veinlets, pyrite 2%. 37.0 ppm As, 0.5 ppb Au
H3				Brittle platy black argillaceous graphitic schist, thin irregular quartz veins 10%, pyrite 3% to 4%. 46.9 ppm As, 11.7 ppb Au
H4				Interlayered mix of brittle black limey argillaceous graphitic schist and altered dacite dike, pyrite 2% to 4%. **18 ppm Pb, 101 ppm Zn, 161 ppm As, 56.5 ppb Au**
H5				Highly crenulated, platy sheared limey argillaceous schist with limonitic-siderite coating on shear planes ±3% discontinuous quartz veinlets. 34.5 ppm As, 1.2 ppb Au

The 2015 Panel Samples 2471 to 2474 were taken across 2014 samples H2 to H5. The outline of the samples in the trench are shown in Photo P16.

Sample #	Dimensions	Arsenic	Gold	Calcium
2471	0.5 m by 0.40 m	60 ppm	0.5 ppb	21%
2472	0.4 m by 0.38 m	74 ppm	1 – 2 ppb	21%
2473	0.5 m by 0.45 m	37 ppm	2 ppb	21%
2473	0.5 m by 0.40 m	31 ppm	4 ppb	23%



P16 Pautler Trench 01-1 showing outline of four panel samples 2471 to 2474 from graphitic limestone, Ca 21%

The larger panel samples appear to have 'diluted' gold to sub-background values. Arsenic in the range of 31 ppm to 60 ppm are background values. The only very anomalous value is calcium, definitely indicating that a limestone is being sampled.

Soil sample 28 was taken 2 m upslope from the panel samples in the trench. The sample was taken from a shallow soil directly on bedrock in thick willows, Cu 124 ppm, As 143 ppm and Au 34.3 ppb. The sample is threshold anomalous in arsenic and gold.

In 2014 three soil samples were taken 5 m to 10 m upslope from the Pautler Trench and are from the same graphitic limestone deformational zone as the Pautler Trench 01-1 and soil sample 28.

Sample #	Cu ppm	As ppm	Au ppb
21	119	8	78
25	93	78	23
26	82	94	14

The analytical results are all background values for copper, arsenic and gold. The only sample that is strongly anomalous in gold at 638 ppm is silt sample 2 taken from the small stream/talus channel between the south end of Pautler Trench 01-1 and the dacite dike. This result does lend credence to the historical information that reports the 'old timers' having extensive workings high on this canyon wall in the vicinity of the Pautler Trench.

In 2014 the same deformational, predominantly a graphitic limestone, was sampled on the west wall of the Lower Canyon. These samples are plotted on Map 1 – 2015.

Rock Samples	Cu ppm	As ppm	Au ppb	Ca %
7	11	17	3	23
8	175	7	5	3
9	22	1	3	4
10	41	37	8	6
11	98	<1	8	6
12	24	9	1	22
13	7	21	1	22
14	43	33	2	23
15	141	<1	9	7



looking north from west(right limit) side of Lower Canyon at placer mined area

Camp is small white object in trees with helicopter pad in the centre left.

Shakwak Trench in the background.

Pautler trench 01-6 in 2014 before the alders were cut out and outcrop exposed in 2015.

In 2015 one soil sample, SSo 27 (WP 255), was taken 2 m upslope from the south end of the Pautler Trench 01-6 and the sample analysed Cu 150 ppm, As 219 ppm and Au 34 ppb. The arsenic value is anomalous and the gold value is background.

Description of Panel Sampling Pautler Trench 01-6

In order to expose this 2001 trench that was described by Jean Pautler as having been blasted 1 m to 2 m into fresh outcrop the overhanging alders were cut out over a distance of 100 m. This allowed the open canopied D8 bulldozer to clear the sloughed material that had accumulated over the last 15 years.

The panel sampling procedure is described under Photo 2 and 3. This type of sampling is possible to do because the rock is friable and can be chipped with a grubhoe-pick. In most sampling projects an electric or air powered chipping tool would be required to cut/chip the rock face.

The sample chips are collected on a tarp and then transferred to a 12" x 18" plastic bag. The dimension of the panel for this project was partly dependent on the volume of sample the bag could contain. As previously described each sample weighed between 8 k and 12 k. Great care was taken to insure the bags were safely transferred to the ATVs for delivery to the camp and then loaded into the Argo. The Argo was able to take the entire load of panel samples plus the balance of the rock samples to Hwy 1 for transfer to the truck and final delivery to the Bureau Veritas facility in Whitehorse.

Map 2 – 2015, scale 1:500 follows with the location of the samples, sample numbers, results for gold and arsenic and general area of the samples in the trench photographed.

The description of the sample geology and results are described in detail under Appendix C, page 4 to 8.

The following 8 pages of photographs, P1 to P15 give a brief description of the sample and anomalous sample results.

Results of Panel Sampling

The average of the sample results is 121 ppb gold and 121 ppm arsenic. The variable arsenic values are consistent throughout the sample section but do not directly relate to gold values.

The calcium content is consistently low in all the samples ranging from 1% to 3% compared with the Pautler Trench 01-1 which has a Ca content of 21% and is definitely a limestone. Pautler Trench 01-6 is much more a geological section of graphitic sericite quartz schist with a low carbonate content cut by numerous thin quartz veinlets subparalleling the schistosity.

Kelli Claim Group

Panel Sampling on west bank of road at the outlet of the Lower Canyon

Between UTM points A and B

SCALE 1 : 5O

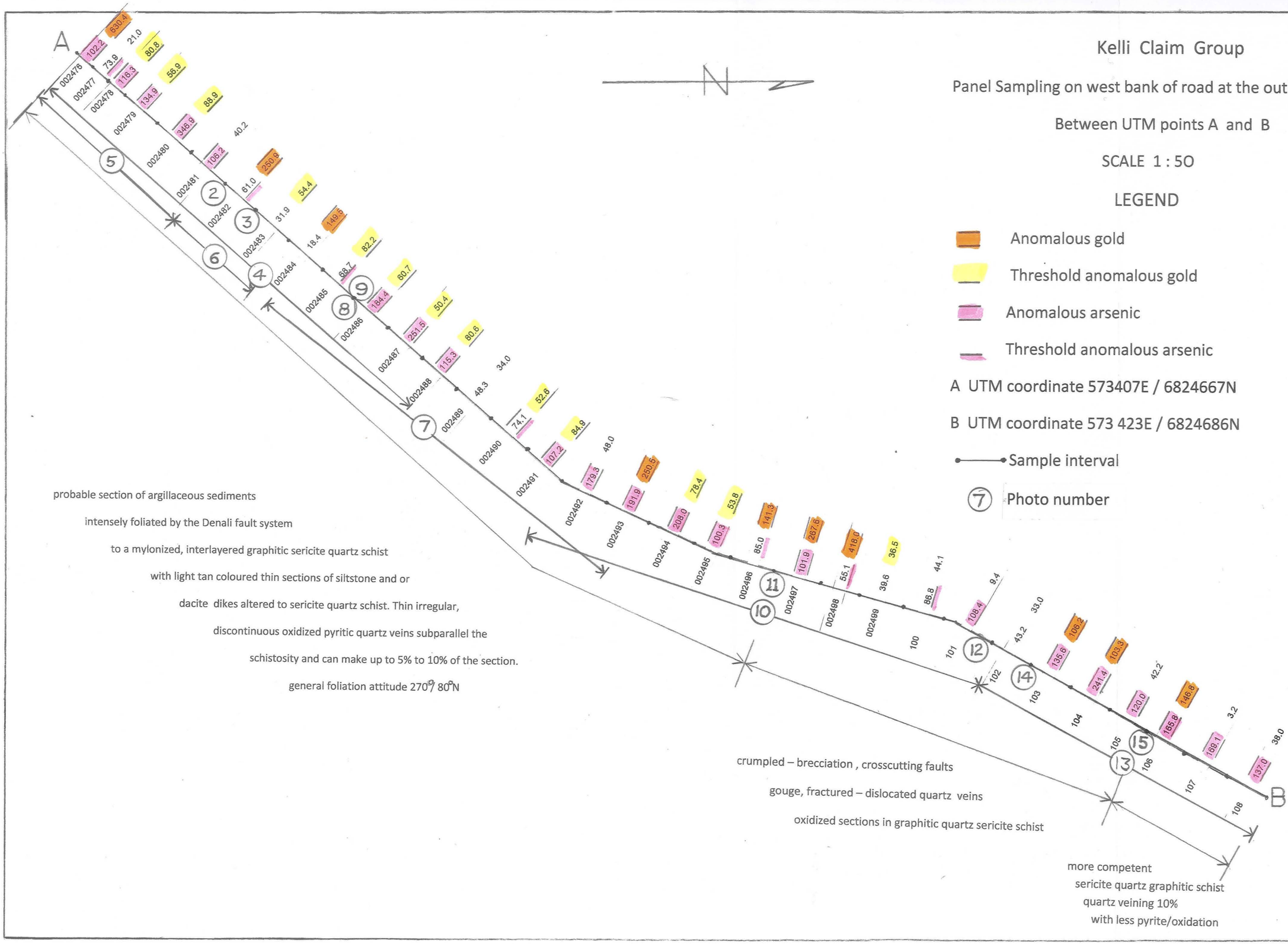
LEGEND

- Anomalous gold
- Threshold anomalous gold
- Anomalous arsenic
- Threshold anomalous arsenic

A UTM coordinate 573407E / 6824667N

B UTM coordinate 573 423E / 6824686N

- Sample interval
- (7) Photo number



probable section of argillaceous sediments

intensely foliated by the Denali fault system

to a mylonized, interlayered graphitic sericite quartz schist

with light tan coloured thin sections of siltstone and or

dacite dikes altered to sericite quartz schist. Thin irregular,

discontinuous oxidized pyritic quartz veins subparallel the

schistosity and can make up to 5% to 10% of the section.

general foliation attitude 270° / 80°N

crumpled – brecciation , crosscutting faults

gouge, fractured – dislocated quartz veins

oxidized sections in graphitic quartz sericite schist

more competent

sericite quartz graphitic schist

quartz veining 10%

with less pyrite/oxidation

Gold ppb

Arsenic ppm

Sample Number



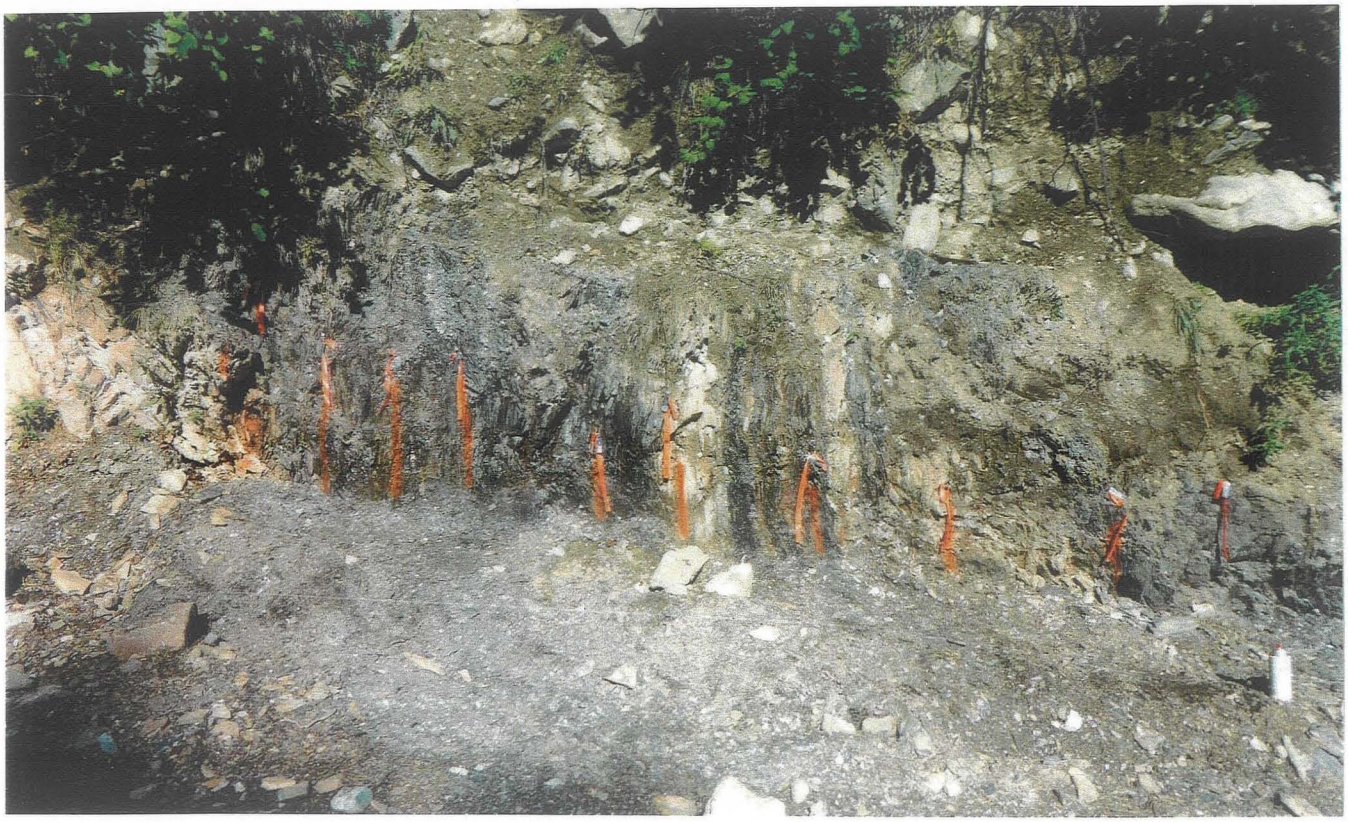
1 Sampling of the gravel - bedrock contact above rock samples 2480 to 2482 to determine the risk of rock sample contamination by placer gold. The placer gold seen is in a standard size metal pan. The largest 'nugget' is 1cm. long and 0.5cm wide. The sample results indicate that there is a real risk of placer gold contamination if rock samples are collected near the bedrock - gravel contact.



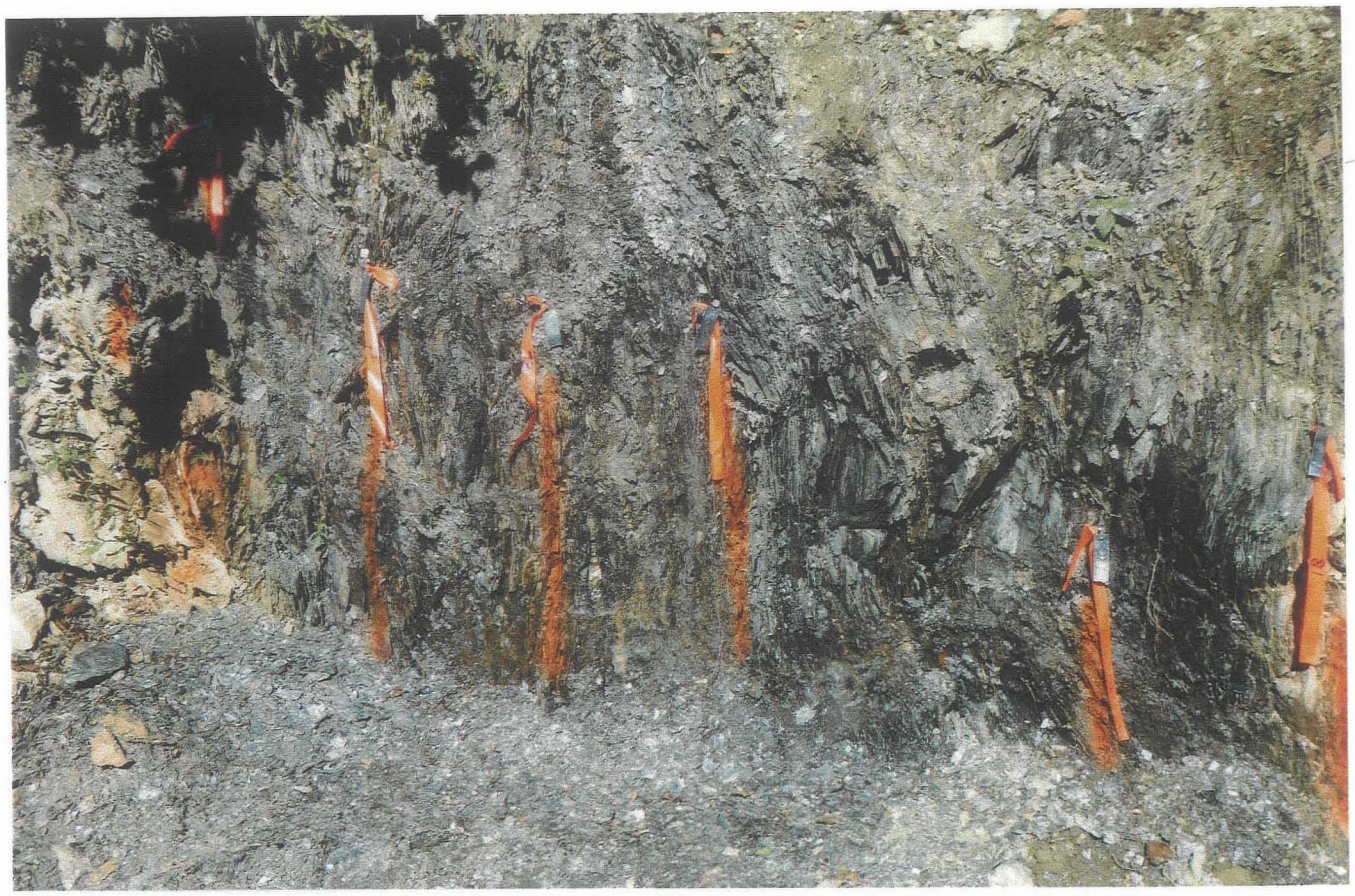
2 Fred Erler cleaning the rock face prior to sampling



3 Bagging the sample taken over an average width of 0.6m and a height of 0.3m and collected on the tarp. The average sample weight is in the order of 10 kg.



4 South end of sample face from point A, sample 2476 to sample 2487. The light tan formation to the south of A is a finely bedded –platy limey siltstone and marks the start of the massive cliffs that form the west wall of the Lower Canyon.



5 Point A, sample2476 to sample 2481. Sample 2476 analysed 102ppm As and 630ppm Au, the highest gold value from the panel sampling. The first three samples were taken over a width of 0.3m and a height of 0.6m. The balance of the samples are over a width 0.6m and a height of 0.3m.



6 Sample 2481 to sample 2483. The light tan platy formation has been interpreted as a siltstone and/ or a dacite dike altered to a sericite quartz schist. Note faulting and ' dragging' of central dike.



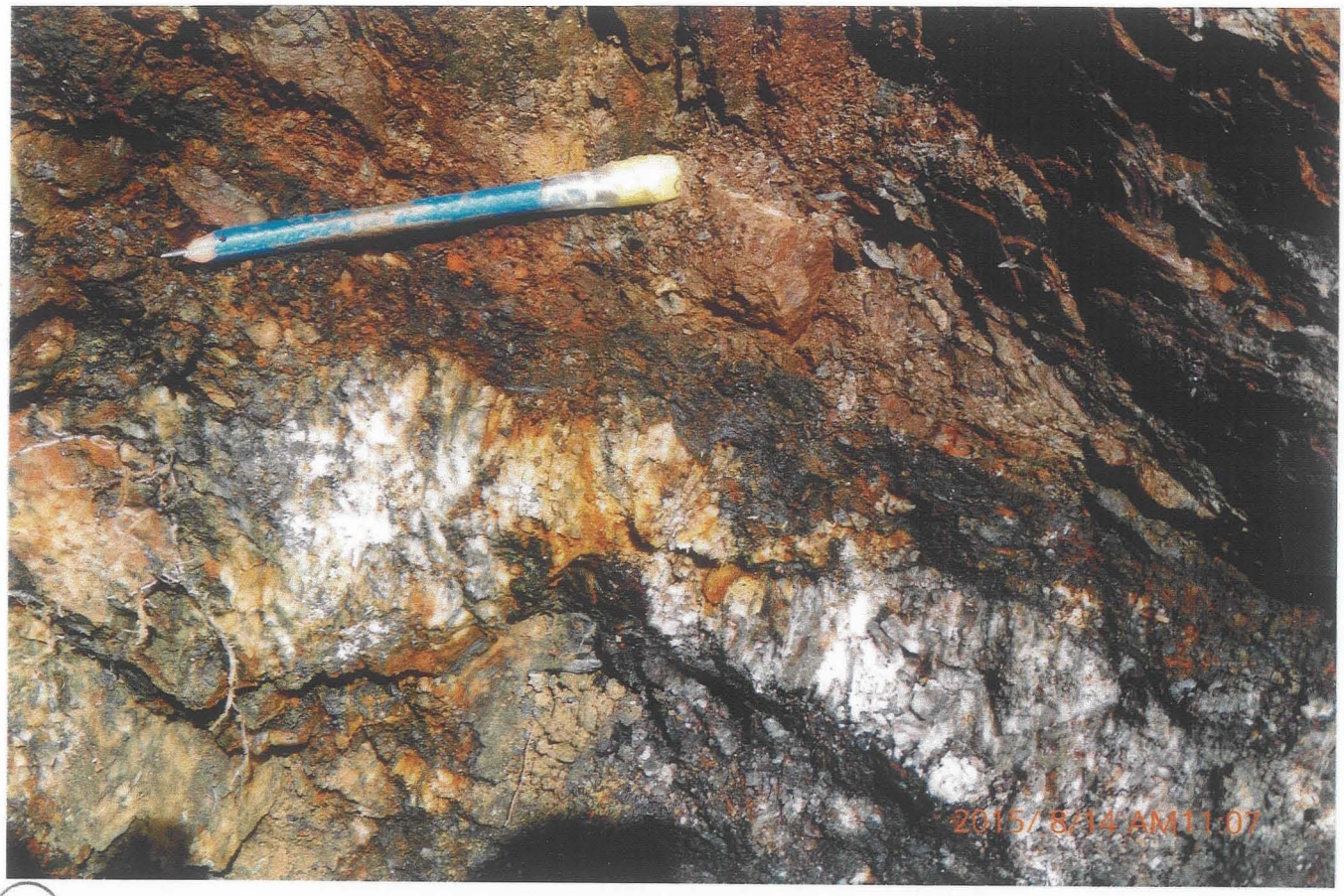
7

The hammer is at sample2484 and the shovel at sample 2493.

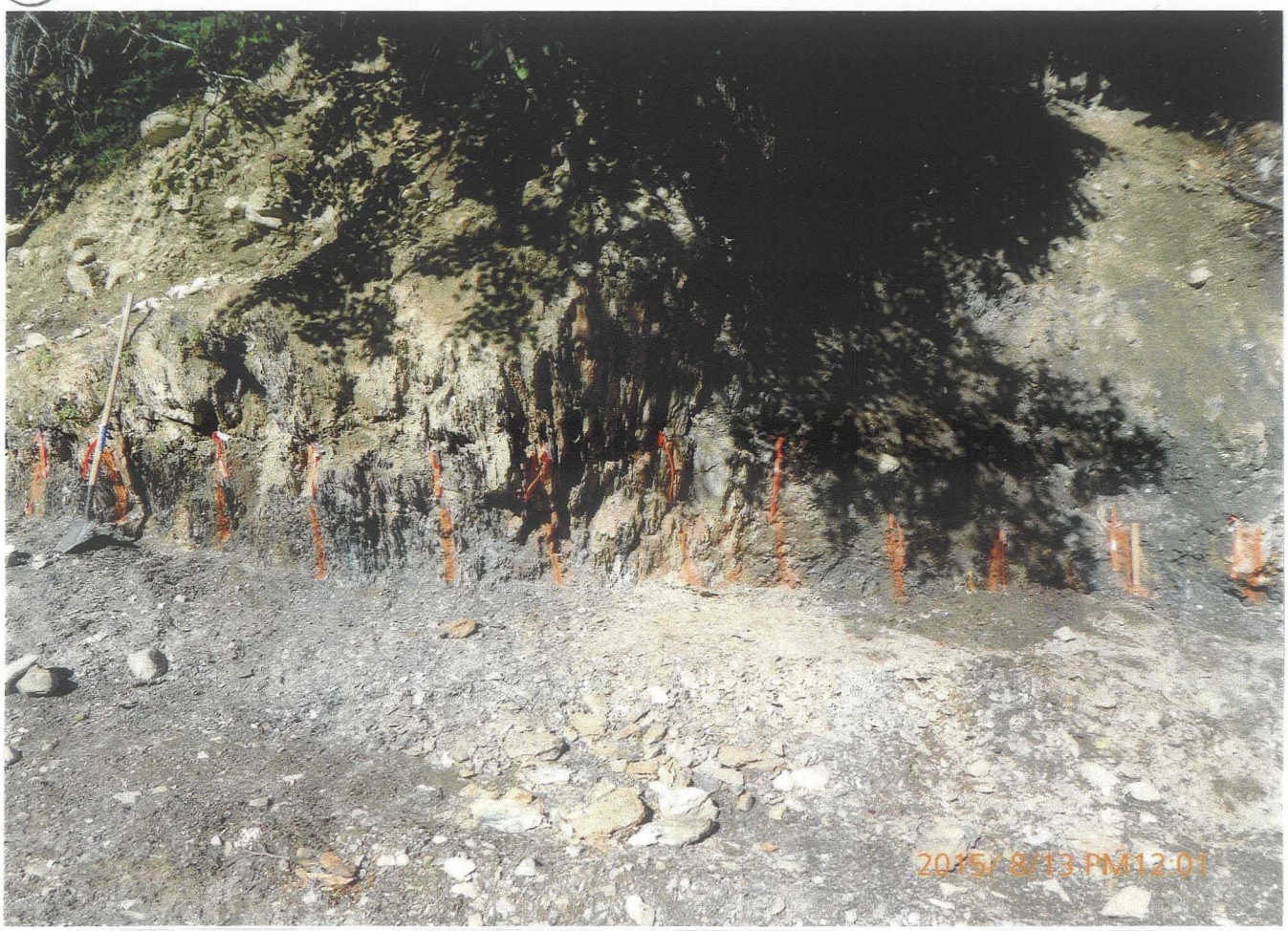


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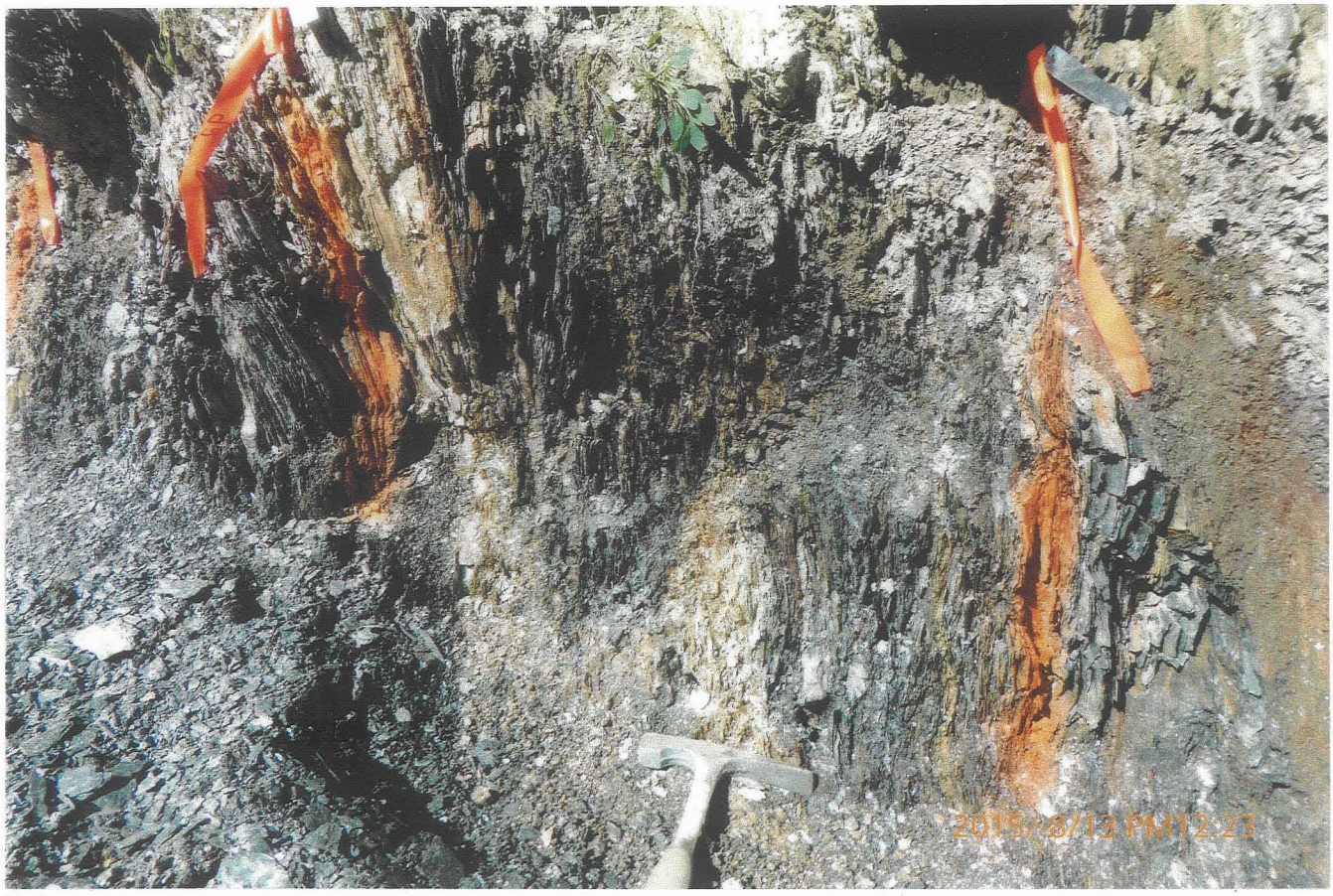
The large flat boulder on top of sample 2485 (grub hoe) marks an erosion channel cut into incompetent highly sheared brecciated drag folded graphitic schist interlayered with pyritic-oxidized often lenticular- discontinuous – broken quartz veins. The sample analysed As 184ppm and Au 61ppb.



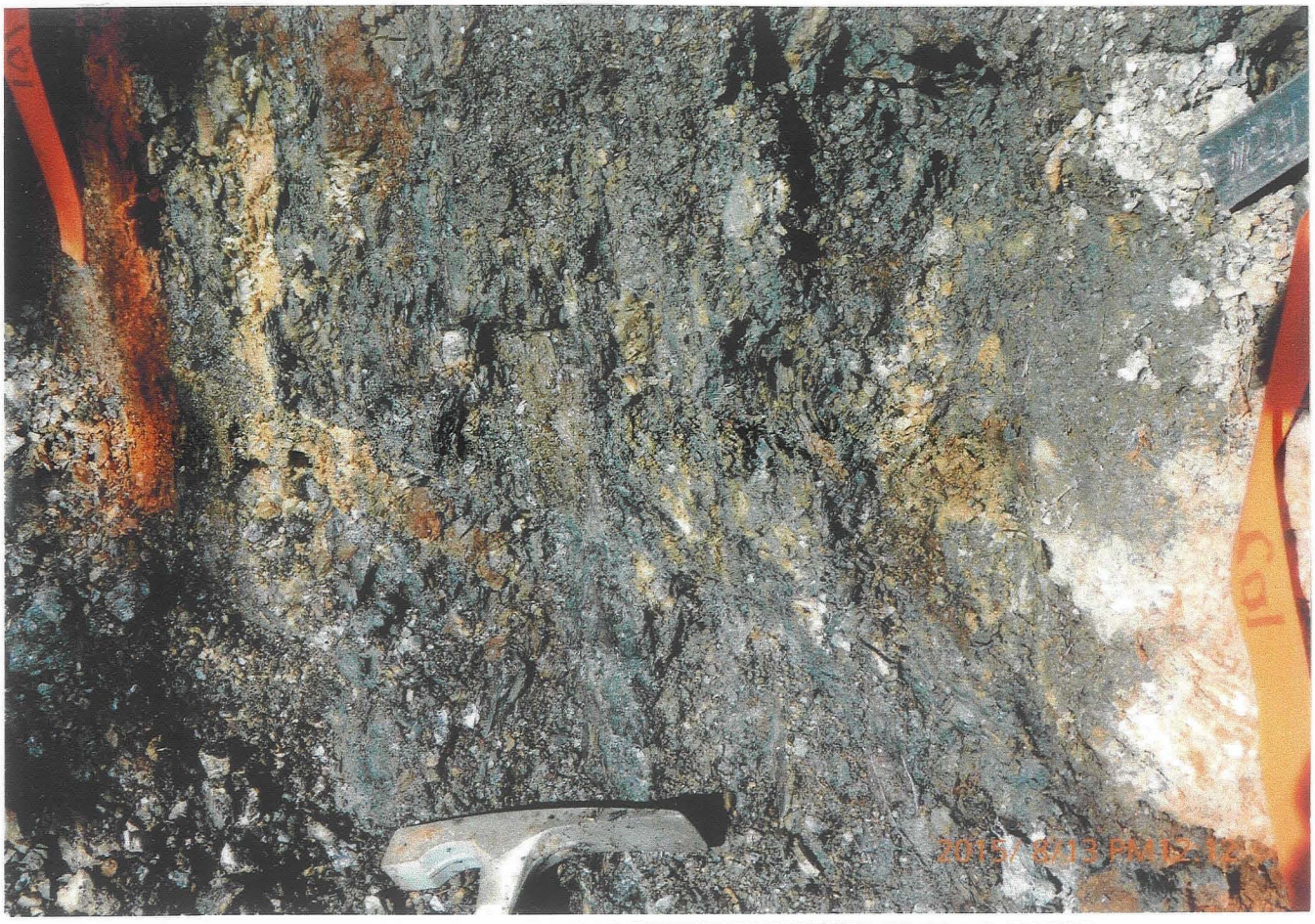
9 Enlarged view of quartz vein. Note highly oxidized vein selvage.



10 Sample 2492 to sample 101. Foliated graphitic sericite quartz schist, competent. At sample 2498 there is seepage from an incompetent section of intense foliation, drag folding, faulting and brecciation.



11 Sample 2496, graphitic sericite schist with a narrow tan sericite quartz schist fault offset at the base. Arsenic 85ppm, Au 141ppb



12 Sample 101, brecciated , fissile ,'gummy' clay alteration. As 108ppm, Au 9ppb



(13) Sample section 102 to 108, 'crumpled', brecciated, intensely sheared zone continues to sample 105. From 105 to 108 the sericite quartz graphitic schist is more competent. Sample 108 is the last sample.



(14) Sample 102 is typical of the highly brecciated zone with broken fractured quartz scattered through the 'gummy' groundmass. As 136ppm, Au 106ppb.



15 Sample 105 to 106, Highly foliated graphitic schist interlayered with tan sericite quartz schist, more competent schist. Sample 105 As 105ppm, Au 42ppb and sample 106, As 120ppm, Au 147ppb.

The highest grade sample (2476) of 630 ppb gold (As 102 ppm) is the most southerly sample in contact with the tan, fresh calcareous siltstone. It was sampled over a width of 0.3 m by 0.61 m high. This is a very favourable sample section as it tested the maximum height of the dip on the formation giving the maximum possibility of sampling disseminated gold. However, sample 2477 and 2478 sampled over the same height and width gave 21 ppb and 81 ppb gold. Sample 2478 has an arsenic value of 116 ppb that is higher than the arsenic value of 102 ppm for sample 2476, again demonstrating that gold and arsenic values are not directly correlated.

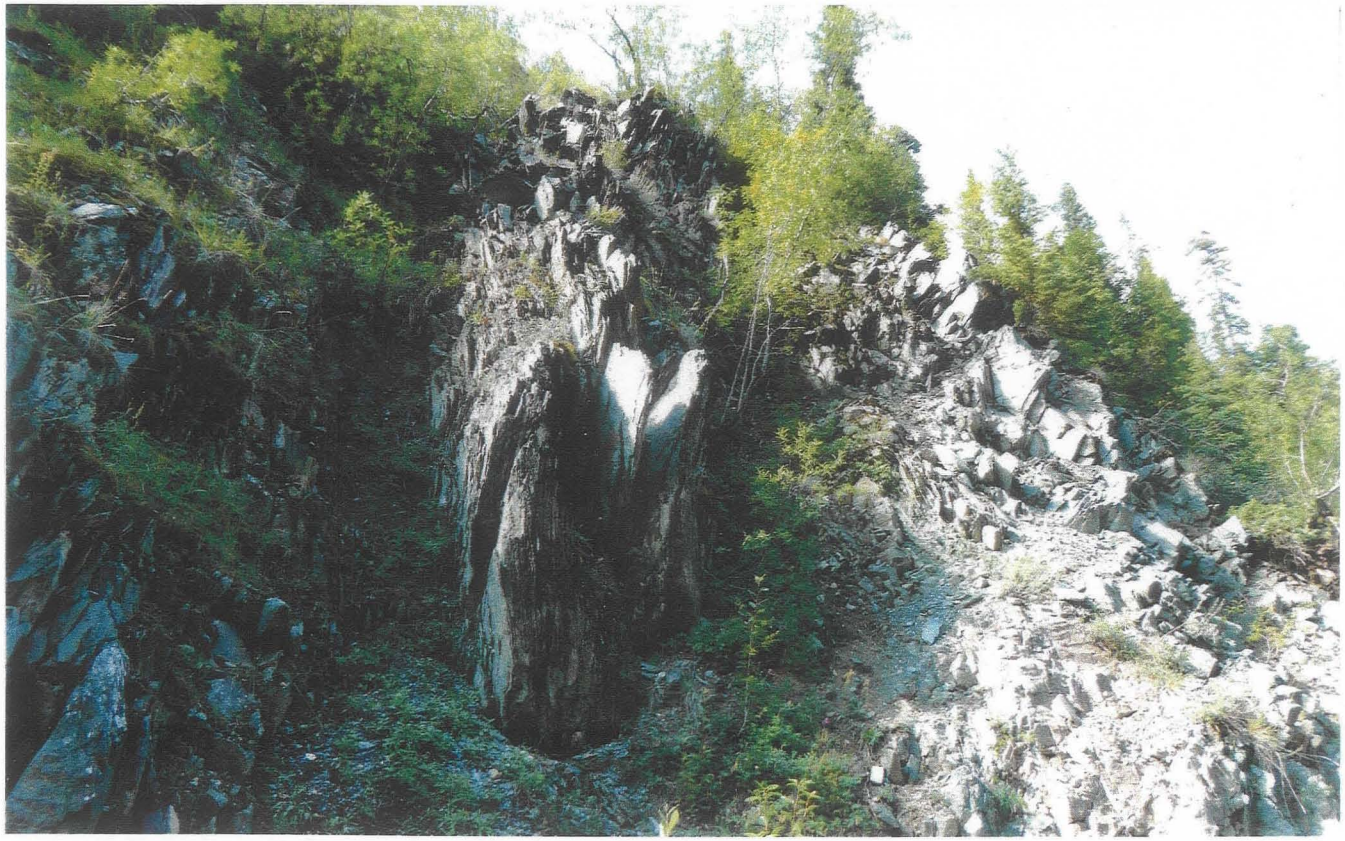
Trying to determine the most favourable geology for higher gold values is a challenge as the geology is similar across the entire section sampled. However, starting at sample 2493, 192 ppm arsenic and 251 ppb gold the writer tentatively identified apple green maraposite associated with graphitic sericite schist with up to 15% thin irregular quartz veins. The next two samples, 2494 and 2495, have anomalous arsenic values of 208 ppm and 100 ppm with threshold values of 78 ppb gold and 54 ppb gold. The geology of these two samples is similar to that which hosts sample 2493 but maraposite was not recognized. The next three samples 2496, 2497 and 2498 have anomalous gold values of 141 ppb, 268 ppb and 418 ppb. These sample occur in the zone of highly brecciated, faulted, drag folded section with an estimated 15% thin, dislocated quartz veins and 70% to 80% pyritic sericite schist with extensive oxidation. The next four samples 2498 and 100 to 102 are within the same brecciated highly altered zone but have only background values in gold ranging from a low of 9 ppb to an average of 37 ppb. The next four samples 103 to 106 have an average of 100 ppb gold with a high of 147 ppb gold. Arsenic is anomalous in all four samples ranging from 120 ppm to 166 ppm. These four samples are from the north side of the highly brecciated altered quartz vein rich, oxidized sericite schist. Sample 106 – 148 ppb gold is from a more competent section with estimated 65% sericite schist, 30% quartz veining and 15% altered dacite dike.

The last two north samples 107 and 108 have similar geology to sample 106. They are equally anomalous in arsenic at 169 ppm and 137 ppm but gold values of subbackground 3 ppb and background of 38 ppb.

Comments Regarding Sample Results

Pautler Trench 01-6 when sampled by Jean Pautler in 2001 had an average grade of 0.35 g/t gold over 21.5 m. When she sampled the same section in 2000 prior to trenching the average grade was 0.4 g/t gold over 17.8 m, including 2.14 g/t gold over 1.6 m. Teck Corporation sampled the same section in 2000 and obtained an average value of 0.5 g/t gold. The Teck analytical results were in Jean Pautler's report (the original was given by Teck to Mr. Larry Tremblay, property owner) and have been copied and are under Appendix F.

The writer sampled the same section over 20 m and the average grade was 0.12 g/t gold. The sampling certainly does not represent any evidence of 'high-grading' or contamination by placer gold. The writer views these results as a general indication as to the distribution of gold relative to geology. The analytical procedure only tested 30 grams of a 10 kilo sample. The samples are stored in Whitehorse and are available for ongoing analytical and/or metallurgical evaluation.



P17 Transition zone of intense sheared andesite/chlorite schist and the start of massive andesite outcrop to the south marking the start of the Middle Canyon, WP32



P18 Continuation of highly foliated chlorite schist, curved surface and numerous boudin structures. The rock hammer is at WP 33

Middle Canyon Geology, Rock and Geochemical Soil and Silt Analysis

The transition between the Lower and Middle Canyon is somewhat nebulous but a good starting point would be where the creek–canyon changes direction to the south. A convenient point of departure from the Lower Canyon is the talus filled northeast trending lineament that marks the south contact of the deformational zone, primarily highly dislocated argillaceous limestone and remnants of highly altered dacite dikes.

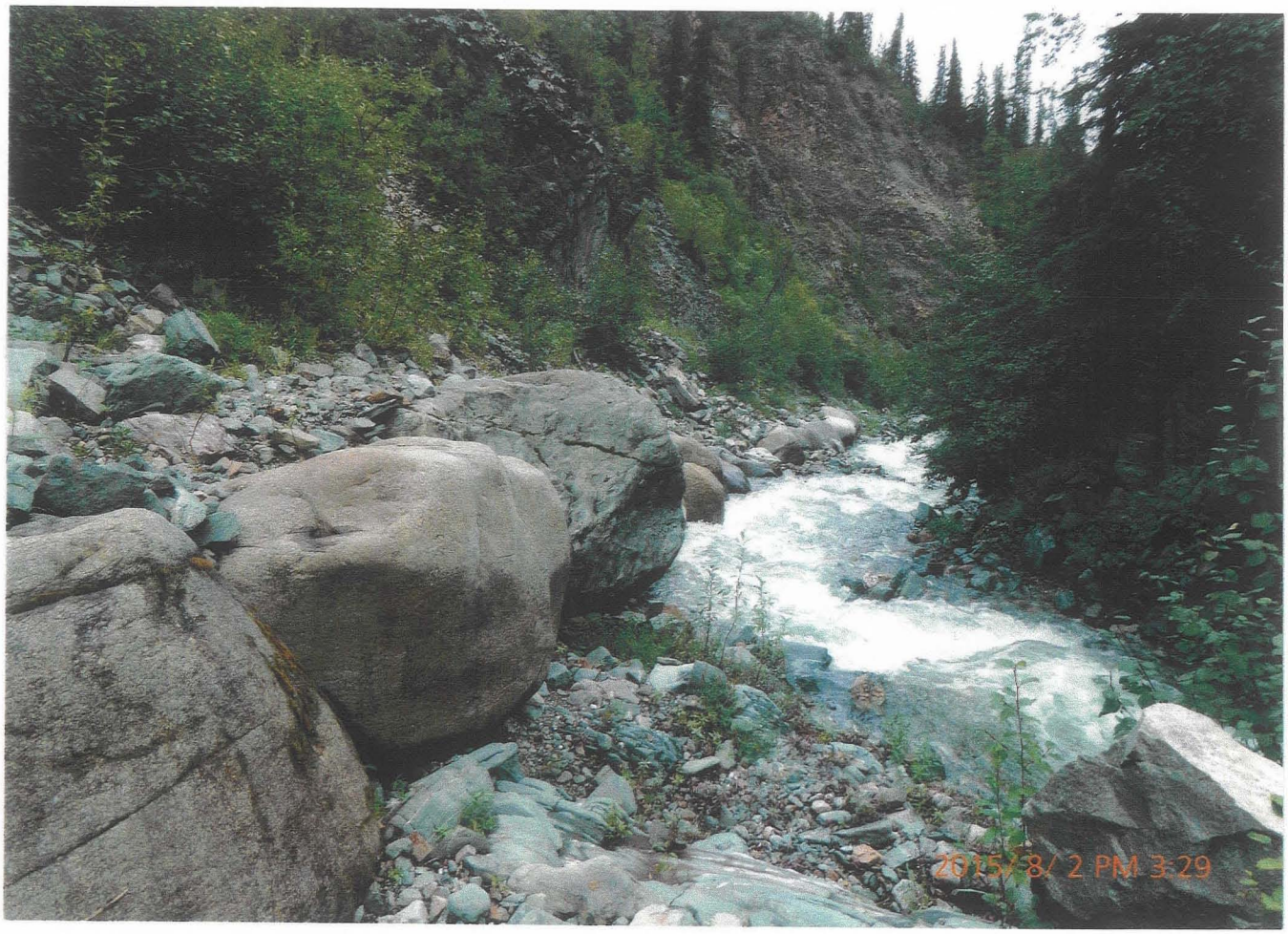
The west canyon is almost continuous outcrop with very steep slope ranging from 25° to vertical and is highly unstable. The west wall has scattered outcrop along the creek but thick alder covers the east canyon wall with a slope that varies from 20° to 45°.

This upstream section is predominantly andesite that have been moderately to highly foliated to chlorite schist (**gs**) with a prominent schistosity east-west and a variable steep dip to the north. Numerous narrow talus filled gullies representing minor fault-lineament zones cut the formation in a westerly direction. Between WP 32 (573280 E 6824564 N) and WP 34 (573273 E 6824542 N) there is a zone of intense shearing (Photo P17) over a distance of 30 m. The chlorite schist foliations often have curved surfaces and boudin structures are noted near WP 33 (Photo P18).

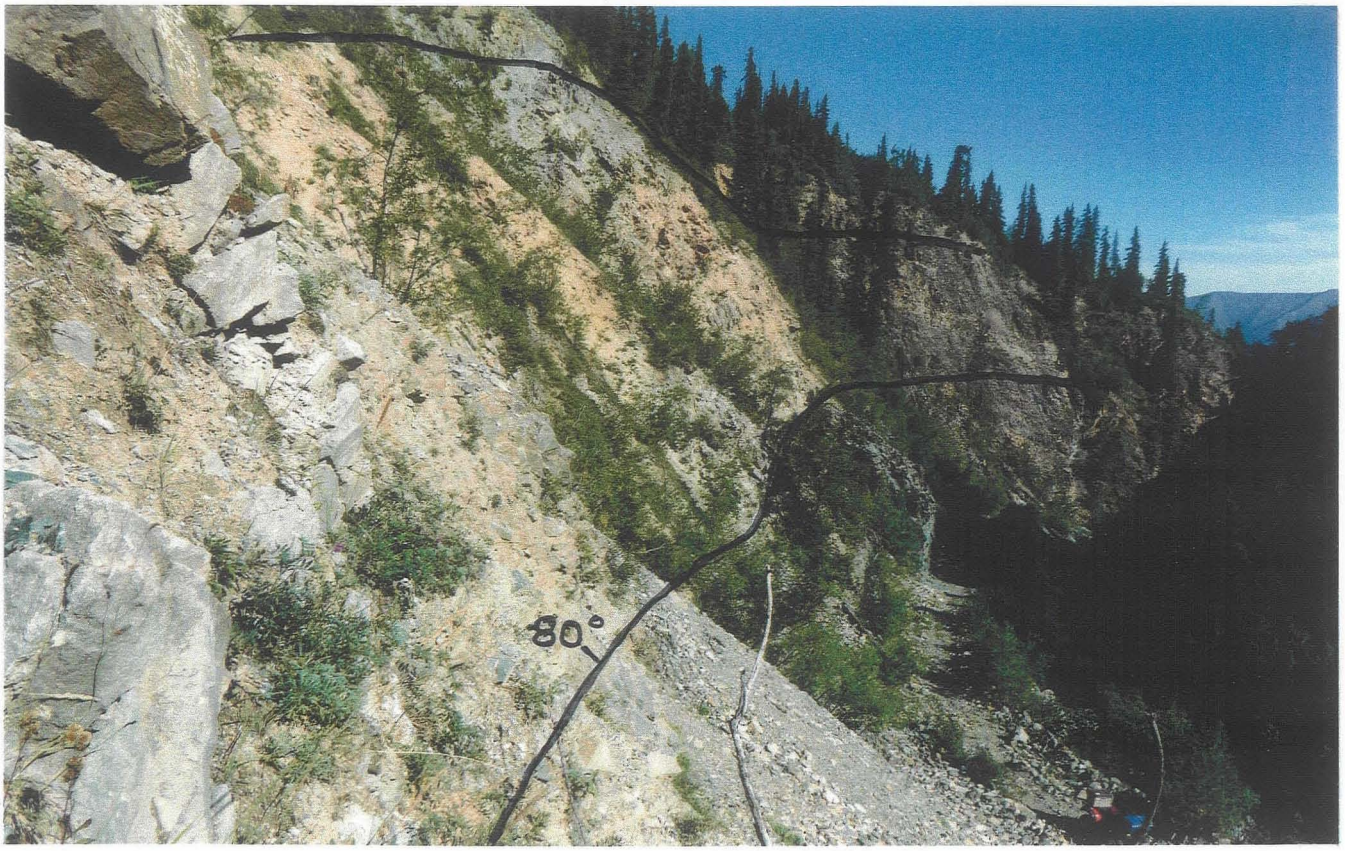
This shear zone is bounded to the south by a talus filled west trending gully starting at WP 34. Going up the gully to WP 126 (573258 E 6824530 N) sample 2459 with a 2% - 5% fine disseminated pyrite returned 61 ppb Au. WP 125 adjacent to WP 126, sampled (2458) a pyritic chlorite schist cut by quartz and carbonate veinlets gave a return of sub-background gold of 5 ppb. Going to the north along contour 30 m are WP 225 and WP 226. WP 26 is at the contact of the massive light grey weathering hornblende feldspar porphyry dike. The contact strikes 35°to60° and dips 80° west with the footwall highly foliated chlorite schist (andesite). The shear attitude is 295°dipping 90° to 80° south. The soil samples, SSo 20 and 21 were collected at WP 225 and WP 226 and are threshold gold anomalous at 47 ppb gold and 69 ppb gold. Continuing up the talus filled gully to WP 228 (573235 E 6824535 N) Soil sample 22 was collected from soil on the outcrop – talus interface and returned a threshold value of 63 ppb gold. At WP 227 the hanging wall of the dike is 5 m upslope (+50°). Looking south the hanging wall contact is ±175° dipping 70° west looking north ±20° and dipping 90° west.

Continuing upstream to WP 36 (573272 E 6824485 N) a talus sample of orange-red oxidized quartz feldspar sericite schist with 5% pyrite was analysed and gave a result of 340 ppm copper which is threshold anomalous but only 13 ppb gold. Outcrop on both sides of the creek is chlorite schist (andesite) with a general foliation trend of 100° and dipping steeply north.

This location provides a unique view of the road construction of the canyon with a massive embankment of large rounded glacial boulders (Photo 19). Behind the boulders talus debris was used as fill and on top of that, to form the road bed, placer tailings were hauled in with a front-end loader. The road was constructed in the early 1980s and has withstood numerous flash floods.



P19 Looking downstream from WP 36. The long row of massive rounded glacial boulders were put in place and coarse talus fill behind the boulders and then placer tailings were hauled in by rubber tired loader to form the surface of the road along the west side of the Middle Canyon. The road was built in the early 1980s by the late Darrel Duensing who managed the placer mining on behalf of Dublin Gulch Placers



P20 Looking down Reed-Kelli Creek to the north along the strike of the grey feldspar porphyry dike. The road can be seen on the right side of the photo



P21 This is a telephoto view of the feldspar porphyry dike crossing the cliffs shown at the downstream south end of P20



P22 View of the hanging wall of the large feldspar porphyry dike at WP 57 just off to the southwest of the road. The two parallel smaller dikes 'cut off' or dislocate the first of the quartz vein systems starting at the hanging contact of the major dike on the right

WP 129 (5732452 E 6824478 N) locates the footwall of the grey feldspar porphyry dike. The attitude of the contact is ±12° and dips 80° west. Two photos (P20,P21) are taken from this point looking downstream to the north along the strike of the dike. The dike contacts have been outlined. The footwall of the dike at WP 129 is a dark brownish-green weathering chlorite schist (andesite).

Sample 2 at WP 43 (573269 E 6824426 N) is talus grab sample of a grey amorphous quartz vein with 5% chalcopyrite and lesser pyrite. The sample returned greater than 10,000 ppm copper and is anomalous in gold at 295 ppb. It is a rare grab sample and the only one located in place or in float during the program.

WP 37 (573271 E 6824451 N) is the start of an orange weathering feldspar porphyry dike that is 30 m wide, blocky and the north contact strikes 295° and dips 70° south. The outcrops along the creek are also a feldspar porphyry dike over 30 m to 35 m with a steep dip to the south. From this dike upstream to the south the outcrops on both sides of the creek are chlorite schist (andesite) to WP 198.

WP 198 (573256 E 6824373 N) on the west side of the road marks the footwall contact of the massive feldspar, hornblende porphyry dike with a strike of ±330° and dips steeply west. There is a large angular float boulder on the east side of the road that is stained with iron oxides on the fractures, 5% pyrite and ±1% magnetite. It was sampled (2453) and returned sub-anomalous gold, 9.3 ppb.

On the hanging wall side of the major north-south trending feldspar porphyry dikes at WP 57 (573234 E 6824360 N) is the first of the large white quartz veins cutting the andesite greenstone unit. This is an insignificant start as the veins, within 5 m along strike, are cut off by two subparallel feldspar hornblende porphyry dikes that are related and subparallel the major dike to the west (Photo 22).

To the southeast of the above area and on the other side of the creek is a massive outcrop talus area. Larry Tremblay reported 'old timers' underground workings in this area. The stream gravels were placer mined in the mid 1980s and when the mine equipment was on site Mr.Tremblay also did considerable backhoe trenching as well as blasting trenches using a Cobra Drill.

When Jean Pautler examined this outcrop area in 2001 a number of the original trenches were still exposed. She describes the geology as follows:

> "The 0.8 m wide bull quartz vein (sample 0-07389) at the top of the exposure on the south side of Kelli Creek at Middle Canyon (Photo 10 and Figure 7) trends west and appears to be folded with west to northwesterly trending axes. The vein cascades down the hill in a series of folds and reappears in Trench 01-2 (Photo 11 and Figure 8 – samples 0-07271, 2, 5) and as fault fragmented veins in Trench 01-3 (Photo 12 and Figure 9 – samples 0-07277) and Trench 01-4 (Figure 10 – samples 0-07285, 6). In Trench 01-5, the folded nature of the vein (0-07284) is evident (Photo 13 and Figure 11)."



P23 Looking across the creek at the large outcrop area hung with screens to protect the trenching crew that operated for the claim owner and manager Larry Tremblay. Wp 210 is at the top of the screen

and a brief summary of the sample results:

> "In addition significant results were returned from the greenstones in Middle Canyon as a result of sampling the wallrock of veins and fault zones. The greenstones themselves were not targeted. A wallrock sample of quartz stringered greenstone from Trench 01-3, Middle Canyon, returned 1.76 g/t Au across the 0.6m sample width (Figure 9 – sample 0-7282). The weakly pyritic, sericite-carbonate altered footwall of the 0.8m wide quartz vein in Middle Canyon returned 785 ppb Au over 0.3m (Figure 7 – sample 0-7390). Additional sampling should be undertaken of the altered and quartz ±carbonate veined with minor pyrite ±chalcopyrite mineralized greenstones on the property."

Photo 23 shows the very massive, blocky andesite at the top of the outcrop area. Jean Paulter's aluminum tag marking sample 0-7389 is attached to the screen.

Soil sample SSo 13, WP 210 (573263 E 6824220 N) was taken from a small dry talus-soil gully on the edge of the outcrop area. The sample returned 223 ppm copper, low threshold anomalous and 105 ppb gold threshold anomalous.

Rock sample No. 15 was taken at WP 202 (573241 E 6824335 N) from angular talus at the base of the slope and is described as a dark fine grained andesite with carbonate fracture fillings, fine pyrite 5%±, chalcopyrite and no magnetite. It returned 117 ppm Cu and 181 ppb Au, anomalous.

There are a few small outcrops at the base of the talus slope with feldspar porphyry dikes cutting andesite/chlorite schist but nothing to indicate that the massive grey feldspar porphyry dike on the north side of the creek crosses to the south side of the creek.

At WP 56 (573257 E 6824354 N) on the south side of the creek talus sample No. 4 (2454), a quartz sericite schist with 10% disseminated pyrite, no magnetite returned 149 ppm Cu, background and 98 ppb Au, threshold anomalous.

Soil sample SSo 12, WP 206 (573236 E 6824338 N) is from the west side of the creek from the base of the talus slope returned 11 ppm Cu and 162 ppb Au, anomalous. Going upslope west sample SSo 15, WP 200 (573219 E 6824353 N) is taken at the top of a talus slope adjacent to massive andesite and 5 m southwest of the feldspar porphyry 'swarm'. The sample returned 127 ppm Cu and 192 ppb Au, anomalous. Continuing along the road to the southwest to WP 201 (573221 E 6824331 N), soil sample SSo 11 is taken from the edge of a talus slope and returned Cu 269 ppm, threshold anomalous, Au 987 ppb very anomalous. Going to the west upslope WP 142 (573212 E 6824341 N) SSo 8 was collected from the base of a highly oxidized quartz vein cut off by a shear/fault zone trending 305°/vertical. The sample is a mix of soil, gouge and very fine rock fragments. The sample returned **470 ppm Cu, anomalous**, and **3,750 ppb Au, highly anomalous.** Rock sample 10 (2460) is also located at WP 142 and is a sample

of a wide shattered quartz vein, pyritic oxidized, and returned 122 ppm Cu and 61 ppb Au, background values. The following Photo 24, 25 and 27 show the location of WP 142 relative to the major quartz vein system.

Continuing southeast up the road between WP 197 573220 E 6824330 N) and WP 195 (573215 E 6824327 N) the outcrop is vertical along the west side of the road (Photo 26) and is a massive andesite cut by a few very irregular discontinuous quartz veins. It can be seen in Photo 27 that the highly oxidized quartz vein system narrows above the road (WP 197) at this location and cuts through the massive andesite outcrop. Going upslope to the west the oxidized vein system wraps around a large mass of grey weathering andesite.

Rock samples 5, 11 and 12 were selected from the talus slopes along the edge of the road. The samples were oxidized, pyritic (5% to 15%) variable carbonate and quartz veinlets in sericite quartz schist and appeared to have the potential for gold values. They were not at all anomalous in copper or gold. The best gold value is 12 ppb.

At the end of the ATV accessible road there is a large talus slide that comes across the road from the west. Looking up the talus slope from WP 196 the oxidized/quartz vein system can be seen in Photo 29. SS06 (WP 135) is taken from the edge of this talus slope and returned 484 ppm Cu, anomalous and 307 ppb Au, **very anomalous**. Continuing up the slope to WP 134 the slope increases from 35° to 45°-50°. Photo 30 shows the narrowing talus slope with the oxidized quartz veining on the left and massive andesite/chlorite schist on the right. The rock hammer shown on the soil-rock chip material is the location of soil sample SSo 5 that returned 352 ppm Cu, threshold anomalous and 142 ppb Au, anomalous.

On the southeast side of the creek at WP 213 (573219 E 6824314 N) rock sample 7 (2466) returned 75 ppm Cu, <0.5% As and **1,014 ppb Au**. This is the highest grade rock sample collected during the entire program. Hand specimen 35 describes the sample as a grey-black moderately foliated chloritic quartz schist, thin quartz veining (5%), fine grained pyrite (10%) disseminated in the groundmass and in the thin quartz veins. The sample is moderately magnetic. WP 213 (sample 2466) location is described as from a sheared, oxidized in the footwall of more massive chlorite schist to the south. Foliation attitude is 100°/60° SW. The outcrop area width is in the order of 5m by 10 m and is located where the braided stream narrows upstream. The outcrop continues along the south side of the creek and at WP 214 (573200 E 6824306 N) it is described as massive andesite–chloritic schist with irregular thin quartz veining and 3% to 5% pyrite. This description is similar to WP 213 Sample 2466 but has not been sampled or a specimen collected.

Going upstream there is massive chloritic schist- andesite outcrop along the west side of the creek and between WP 147 (573180 E 6824289 N) and WP 148 (573174 E 6824281 N) there is a narrowing and increase of gradient of the creek (Photo 28). The west bank is a grey feldspar porphyry in intruding chlorite schist and the east bank is chlorite schist with shearing at 218° and a steep north. At WP 148 at the southwest end of the 'sluice run' the creek channel is only 1 m wide.



P24 WP 142 and location soil sample 8 and rock sample 10. Start of the most significant section of the oxidized shattered large quartz veins cutting andesite volcanic highly folicated to chloritic schist



P25 Photo of oxidized cliff face with location of P24 framed



P26 Massive andesite on the west side of the road at WP 138. The oxidized system is further upslope



P27 The highly oxidized quartz vein system is cutting through massive andesite and continuing to the southwest

Two silt samples SSi 13 and 14 were taken from a small creek channel occupying a strong fault–lineament. Neither sample was anomalous.

Going upstream to a rock sample location WP 153 number 13 (2463) of angular float composed of finely banded-bedded yellowish-cream carbonate with 5% disseminated pyrite. The sample returned sub-background Cu 17 ppm and sub-background Au 9 ppb but was anomalous in Ca 21%.

At WP 70 on the west side of the road located at the base of the talus slope the highly oxidized chloritic andesite 15 m to 30 m upslope is cut by a number of thick brittle quartz veins trending 240°. The overall width of the quartz vein system could be in the order of 50 m.

At WP 70 a rock sample of float with dark orange-red iron oxides on the weathered surface was collected. It is a soft, carbonate rich sericite quartz carbonate schist with 5% disseminated pyrite. It returned Cu 169 ppm and subthreshold Au 43 ppb.

Between WP 70 and WP 231 (573138 E 6824263 N) there is massive near vertical outcrop of chlorite schist-andesite on the west side of the road. Two rock samples 18 and 19 were taken from the base of the talus slope. Sample 18 (2467) is lustrous, fine grained with quartz 'patches', no pyrite or magnetite, below background for Cu and Au, Ca 5%.

Sample 19 is a highly oxidized float sample of competent quartz vein with 3% to 5% pyrite with 8 ppm Mo (most Mo results are less than 2 ppm), background Cu 10 ppm and Au 13 ppb.

At WP 232 (573132 E 6824262 N) there is an unusual overturned folded structure with an axis striking nortsouth and plunging at 20° south. One of the folds can be seen in Photo 31.

Rock sample 20 (2469) is from talus in the area of WP 232 and is a highly oxidized quartz vein, boxwork after pyrite 5%, oxidized stain fractures, background Cu 19 ppm and subthreshold anomalous Au 49 ppb.

Between WP 220 (573133 E 6824275 N) and WP 219 (573125 E 6824271 N) three good quality soil samples from the edge of talus slopes leading upslope to the massive oxidized quartz vein system:

Soil Sample	Mo ppm	Cu ppm	Au ppb	Au anomalous
SSo 16	37	147	**153**	anomalous
SSo 17	7	381	**492**	very anomalous
SSo 18	21	117	**269**	very anomalous



P29 The steep +35° talus slope at WP 198. Soil sample 6 (307 ppb Au) and 5 (142 ppb Au) were collected from the south side of the talus slope



P30 Soil sample 5 at WP 134. Oxidized soil from quartz vein system on left side of slope and massive andesite on right side



P31 Massive dark weathering andesite showing folded structure at WP 232 on the west side of the road. The oxidized quartz vein system is upslope 20 m



To the west of the road there is continuous outcrop along the creek. At WP 156 (573147 E 6824257 N) there is another sharp drop in stream gradient over a 'falls' – outcrop over light grey limey sediment foliated 110°/80° S. At WP 157 (573134 E 6824250 N) Specimen 29 (float) is a brecciated dark black-green limestone, highly effervescent in dilute HCl with 2% to 3% pyrite. Upstream at WP 158, Specimen 30 is a dark, fine grained, crystalline, moderately effervescent in HCl, soft, pyrite 1% and is considered an impure limestone. This is also the location of the third set of Falls with a 5 m to 8 m drop over a stream distance of 20 m.

On the northwest side of the road there are two soil samples, SSo 9 and SSo 10 collected from soil on the margins of small talus piles at the base of a massive steep outcrop face of chlorite schist-andesite. SSo 9 returned 258 ppm Cu, threshold anomalous and 76 ppb Au, threshold anomalous. SSo 10 returned 163 ppm Cu, and 40 ppb Au, subthreshold anomalous.

The creek flows through narrow outcrop exposures on both sides and at WP 258 (573086 E 6824207 N) limestone predominates with an orange weathering siderite forming an almost continuous band along the west side of the creek.

At WP 265, SSi 15 and at WP 267, SSi 16 there are two small streams flowing from the west into Reed-Kelli Creek. Both samples have sub-background values for Cu and Au.

This section of the creek is largely a limestone sedimentary formation and to the west most of the massive outcrop is a chlorite schist although at WP 240 there is a carbonate bed bordered by andesite to the north and south.

This is the end of the geology that has been plotted following Reed-Kelli Creek upstream on Map 1 – 2015 1:500 scale.



P32 WP 156 at the most southerly 'Falls'. The rock formation is a limestone with unique rolled jointing

AEROMAGNETIC SURVEY

An Aeromagnetic Survey YGS Open File 2015-16 was carried out in March and April, 2015. The survey area is outlined on Map 3 – 2015. It was carried out as a joint venture between the Yukon Geological Survey and Kluane First Nation.

There are two 'segments' of the Aeromatic Map, the first is the Residual Total Magnetic Field and the second is an enhancement of that data to derive the First Vertical Derivative of the Magnetic Field. Both maps are on a scale of 1:50,000 covering part of NTS map sheet 115G12.

The writer met with Dr. Dave Hildes, Project Manager Geophysics for Aurora Geosciences located in Whitehorse. Dr. Hildes did a brief overview on the results of the Aeromagnetic Survey relative to the Kelli Claim Group and adjacent areas. The outline of the Kelli Claim Group is shown on Map 3 – 2015 and Map 4, 2105. The entire claim group is not covered by the survey but fortunately covers the most significant known mineralized areas of interest.

The Residual Total Magnetic Field outlines a narrow linear low amplitude magnetic feature starting on the southwest side of the Donjek River with a maximum amplitude of –300 nT and a narrow width of 0.75 kilometres. It continues southward decreasing in amplitude as a very subtle feature sub-paralleling the Shakwak Trench – Denali Fault and crosses Reed-Kelli Creek at the Lower Canyon 'kink structure' and continues through Swede Johnson Creek. There is another linear magnetic high to the west of the previously described feature. This second anomaly starts on the west side of the Donjek River as a strong 'bulls eye' anomaly with a maximum amplitude of 220 nT weakening to the southeast as it crosses the Donjek River and stops just before the Kelli Claim Group to the west of the Forks.

In the area of the Kelli Claim Group the magnetic response is low and becomes diffused over the entire claim area and continuing to Swede Johnson Creek where it begins to consolidate back into a more coherent southeasterly trending feature sub-paralleling the Denali Fault.

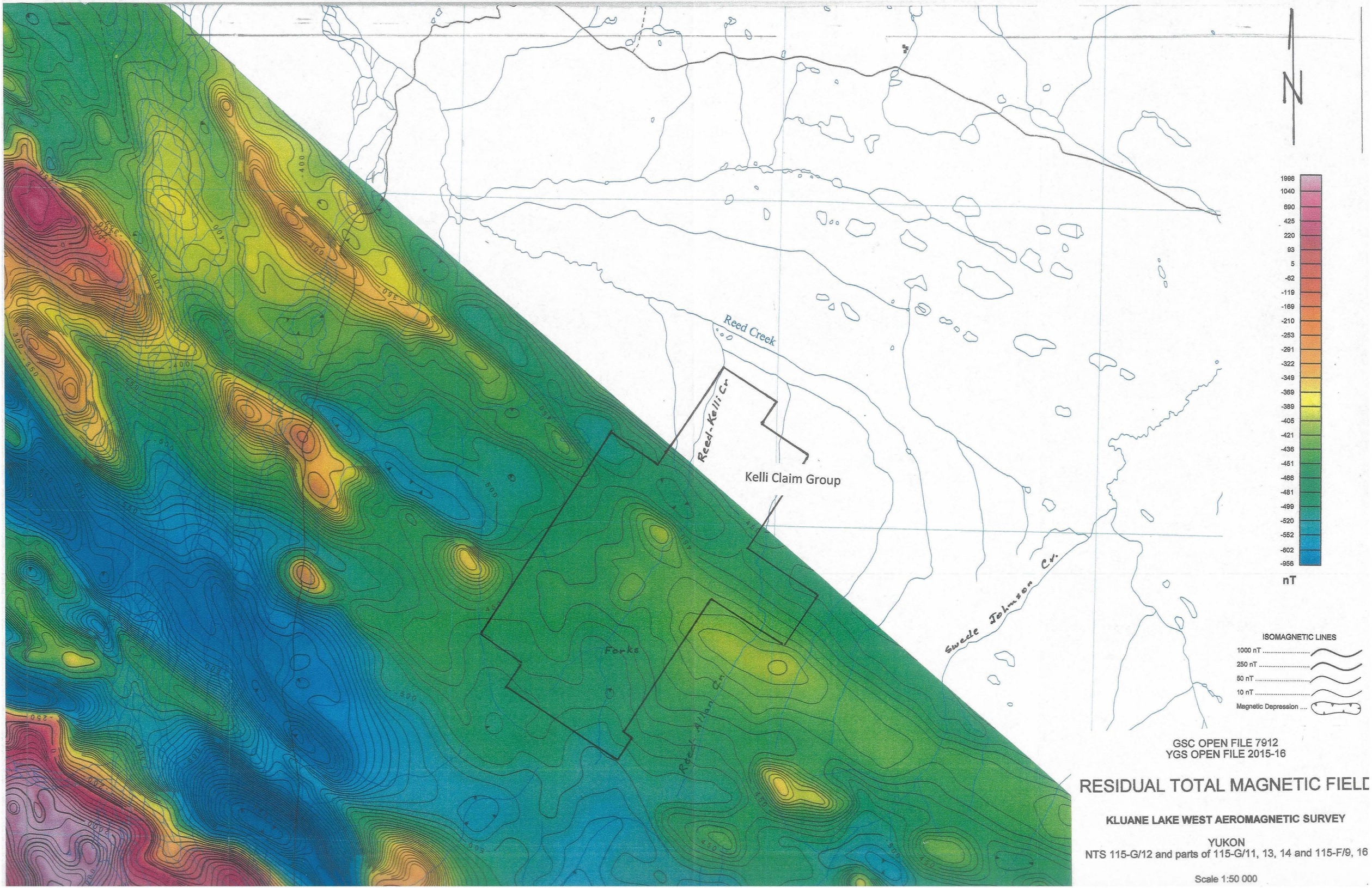
This magnetic response may reflect the complexity of the geology that underlies the Kelli Claim Group. The low magnitude of the airborne survey also reflects the very low magnetic content of the majority of the formations within the claim group including the large intrusive dike complexes and the andesite–chlorite schist formations.

In summation, the Kelli Claim Group covers an area of diffused magnetic response whose very complexity reflects a potential structural host favourable for gold mineralization.

A ground geophysical program was discussed with Dr. Hildes to trace the gold mineralized formations in the Middle and Lower Canyon. The program would cover an area approximately 1 km by 1m between Reed-Kelli Creek and Reed-Allen Creek. The recommended Mag/VLF System and budget is as follows:

Description	Work Rate
Geophysicist/Technician	$ 600
Field Hand	450
Mag/VLF System (2)	400
Mag base station	90
Computer & processing software	70
4 x 4 truck	150
Office box,repair tools, IRIDIUM sat. phone	
Handheld GPSs, VHF radios	40
Total per day	**$ 1,800**

Mobilization / Demobilization		
Instrument and equipment checks	$ 500.00	
Cargo	500.00	
Crew charges (2 days)	3,600.00	
Gas and meals enroute	300.00	
Total estimated mobilization/demobilization	4,900.00	$ 4,900.00
Survey		
Survey charges: 2 days	3,600.00	
Total estimated services	3,600.00	3,600.00
Project Support		
Project Management: 2 hrs @ $100/hr	200.00	
Expediting: 2 hrs @ $85/hr	170.00	
Total project support	370.00	370.00
Report		
Logistics report	1,500.00	1,500.00
Total Estimated Cost		**$ 10,370.00**



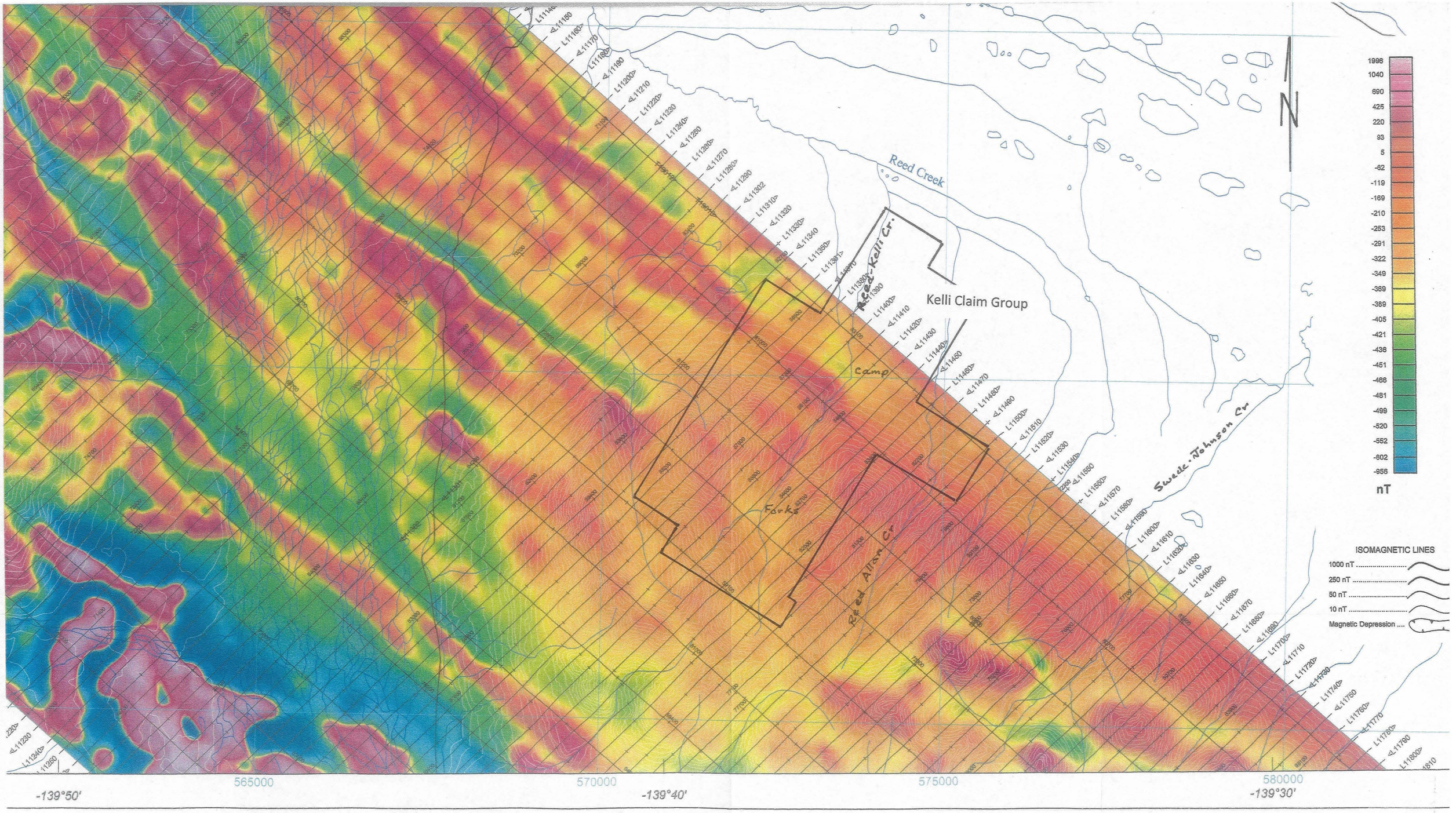
GSC OPEN FILE 7912
YGS OPEN FILE 2015-16

RESIDUAL TOTAL MAGNETIC FIELD

KLUANE LAKE WEST AEROMAGNETIC SURVEY

YUKON
NTS 115-G/12 and parts of 115-G/11, 13, 14 and 115-F/9, 16

Scale 1:50 000



FIRST VERTICAL DERIVATIVE OF THE MAGNETIC FIELI

KLUANE LAKE WEST AEROMAGNETIC SURVEY
YUKON
NTS 115-G/12 and parts of 115-G/11, 13, 14 and 115-F/9, 16

Scale 1:50 000

GSC OPEN FILE 7915
YGS OPEN FILE 2015-19

GEOCHEMICAL SOIL AND SILT SAMPLING MAP 3 – 2015 1:3000

Continuing to the southwest upstream from Map 1 – 2015 1:500 scale to Map 3 – 2105 1:3000 scale. Between the southwest corner of Map 1 – 2015 1:500 and Structure 2 at the southwest end of the Upper Canyon there are numerous outcrops that have been plotted on the 2014 1:2000 scale map. This work plus the 2015 geological mapping of this section needs to be incorporated to form a comprehensive 1:500 scale geology map. The 2015 geochemical silt samples have been plotted on Map 3 – 2015 1:3000.

The 2014 silt sampling located some significant gold anomalies, WP 19 sample 13 – 254 ppb, WP 196 sample 39 – 96 ppb and WP 198 sample 40 – 319 ppb. These anomalous samples are clustered around Structure 2 where it crosses Reed-Kelli Creek. These results plus additional sampling and geological mapping can be incorporated into the 1:500 scale map.

Going upstream to the southwest 11 silt samples from small streams flowing from the west were silt sampled where they enter Reed-Kelli Creek. A traverse was then made across the same streams 170 m to the west. Seven silt samples were collected with only one sample having a threshold gold value of 53 ppb.

Continuing upstream to WP 316 silt sample 21 is from a small stream flowing into Reed-Kelli Creek from the west and has an anomalous gold value of 129 ppb. Continuing 100 m up the creek two small streams were sampled at WP 323, sample 22 – **highly anomalous, 604 ppb Au** and WP 324 sample 23 – **anomalous, 144 ppb Au**. Continuing up Reed-Kelli Creek 150 m WP 329 sample 24 – 88 ppb Au is threshold anomalous.

There were no further silt samples collected between WP 329 and the Forks. There are few outcrops along this section of the creek in part because the alders are so thick on both sides of the creek they cannot be found. A trail was power sawed out on the west side of the creek from Structure 2 to the forks and it made access much easier. The same can be done with the old road on the east side of the creek. There is a large outcrop area on the east side of the creek at WP 333 to WP 336. It is an anderite/chlorite schist cut by a feldspar porphyry dike.

A number of traverses have been made from the camp at Reed-Kelli Creek east to Reed-Allen Creek. Silt samples have been collected from the numerous streams flowing to the north. There are a number of anomalous gold values ranging from 81 ppb to **592 ppb** (WP 370 – sample 37) as well as a number of samples in the threshold to anomalous range. These anomalous results are down slope from the projected strike of Structure 1 and are close to the placer gold workings in Reed-Allen Creek.

CONCLUSION AND COMMENTS

1) The results of the geological mapping, geochemical soil and silt sampling and rock sample analysis produced results that continue to advance the project.

   a) The 2015 and 2014 negative sample results from the graphitic limestone deformation zone on the south side of the massive dacite dike formation demonstrates that it is not a high priority exploration target.

   b) The 2015 Panel Sampling of Pautler Trench 01-6 over 20 m did not return economic gold values but did indicate a gold mineralized zone over a substantial width and with great strike potential. The initial analysis is not much more than a reconnaissance tool for ongoing, more substantial analytical procedure. In addition, the overall width of the zone has not been determined.

   c) The geological mapping on a scale of 1:500 of the Middle Canyon resulted in a better understanding of the complex geology and the surprising number, size and diverse orientation of the feldspar porphyry dikes. The sample analysis of the large number of different mineralized rock types, mostly float-grabs resulted in overall low values in copper and gold. These various rock types can now be categorized by rock classification as having low potential for economic gold mineralization. However, sample 17 (2466), WP 213 a 'grab' from outcrop returned a very significant value of 1,014 ppb gold. This sample is from a different gold mineralized rock formation located in a historical high grade placer gold area and has received very little attention. A soil sample taken at this same location was very gold anomalous at 493ppb. This location warrants very detailed exploration and sampling.

   d) The geochemical soil sampling in the Middle Canyon from 'good soil' along the edge of the talus slopes produced a number of very anomalous gold values. A comparison of the soil values from the 2014-2015 sampling of the Lower Canyon and the 2015 sampling from the Middle Canyon demonstrates that the Middle Canyon, largely the oxidized massive quartz vein swarm, is very gold anomalous while the Lower Canyon does not have a significant geochemical anomalous gold signature.

   e) The Geochemical Silt Sampling has been successful in locating one new gold anomalous area and confirming an anomalous area located in 2014

      1) 2016 Exploration Area 1 is circled on the east side of Map 3 – 2015. A number of threshold to highly anomalous (592 ppb Au) silt samples taken in 2014 and 2015 from the base of the slope on the west side of Reed-Allen Creek are from an area of historic placer gold mining and structurally favourable geology.

2) 2016 Exploration Area 2 is on the east side of Reed-Kelli Creek between Structure 2 (south end of the Upper Canyon) and the Forks. The gold anomalous values, up to 604 ppb are from four streams over a distance of 300 m along the creek valley.

f) The 2015 Kluane West Aeromagnetic Survey demonstrated that the Kelli Claim Group is centred in an area of 'divergence' in the more prominent continuous magnetic trend paralleling the Denali Fault – Shakwak Trench structure. Considering the wide distribution of gold mineralization in the Kelli Claim area this magnetic divergence can only be viewed as positive.

In conclusion, the 2015 exploration program was a success in advancing the understanding of the geology and its relationship to gold mineralization in the Kelli Claim Group. An ongoing exploration program for 2016 is warranted.

Respectfully submitted,



Gordon G. Gutrath, B.Sc., P.Eng.

REFERENCES

Bremner, T. 1991, *Reed Creek, INAC, 1991, Yukon Exploration 1990,* p. 60-64

Dodds, C.I. and Campbell, R.B. 1992, Overview, legend and mineral deposit tabulations for *Geological Survey of Canada* Open files 2188, 2189, 2190 and 2191

Getsinger, J.S. 1998, *Preliminary Field Evaluation of the Kelli Property Area, Reed Creek, Y.T.* (unpublished)

Pautler, J., P.Geo. 2001, *Geological, Geochemical and Trenching Report on the Kelli Property* (unpublished)

McFaul, J. 2004, *Kelli Creek Group, Diamond Drilling Program* filed Yukon Mining Incentives Program

Tremblay, L. 1983 to 2007, Extensive reports, memos, maps, sampling data and photographs of geology related to mineralized zones (private collection)

Gutrath, G. 2012, *Geoligical Report Kelli Claim Group,* assessment work filing

Gutrath, G. 2014, *Geoligical Report Kelli Claim Group*, assessment work filing

Gutrath, G. 2015, *Geological and Geochemical Report in support of 2015 Application for Funding under the Yukon Mineral Exploration Program, Kelli Claim Group, Whitehorse Mining Division*

APPENDIX A

STATEMENT OF QUALIFICATIONS

ENGINEER'S CERTIFICATE

I, GORDON GUTRATH, of 702 – 181 Athlete's Way in the city of Vancouver in the Province of British Columbia, DO HEREBY CERTIFY:-

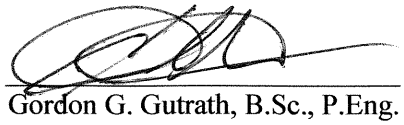
1. That I am a geologist with a business address of 702 – 181 Athlete's Way, Vancouver BC V5Y 0E5

2. That I am a graduate of the University of British Columbia where I obtained by B.Sc., in geological science in 1960.

3. That I am a Registered Professional Engineer in the Geological Section of the Association of Professional Engineers in the Province of British Columbia

4. That I have practiced my profession as a geologist for the past fifty-six years.

DATED at the city of Vancouver, Province of British Columbia, this 15th day of February, 2016.



Gordon G. Gutrath, B.Sc., P.Eng.

APPENDIX B

Soil and Silt Sample Field Notes

And

Bureau Veritas Soil and Silt Sample Analysis

SILT

LOCATION CO-ORDINATE	TOPO SLOPE	DRAIN	TERR.	VEG.	SOIL TYPE	DEPTH	COLOUR	TEXT	REMARKS
91-1	+10°	POOR	CREEK BANK	AL	SILT	—	BR	SILT	PEBBLY - SMALL GR 5% GOOD VA SILT
93-2	+10°	POOR	"	AL	SILT	-	BR	SILT	10 M UPSTREAM FROM 91
95-3	2°	POOR	CR FLAT	AL	SILT		LT BR	SILT	30% VA
96-4	2°	POOR	CR FLAT	AL	SILT		LT BR	SILT	
112-5	+10°	POOR	MOD	AL SP	SILT		BR	SILT	VA: ASH 20 % 5/GPM
113-6	+15°	POOR	MOD	AL SP	SILT		BR	SILT	VA 15% SANDY SILT
114-7	+15°	POOR	MOD	AL SP	SILT		BR	SILT	DRY SMALL STREAM
116-8	20°	POOR	BROAD GULLY	AL SP	SILT		BR	SILT	15% V.A.
117-9	+15°	POOR	BROAD GULLY	AL SP	SILT		BR	SILT	BIG SPRUCE
118-10	+20°	POOR	BROAD GULLY	AL SP	SILT		BR	SILT	
119-11	+15°	POOR	BROAD GULLY	AL SP	SILT		BR	SILT	
121-12	+10	GOOD	CREEK CANYON	AL	SILT		BR	SILT	

CO-ORDINATE	SLOPE								
149-13	+20°	F	G	W/AL	SILT		BRN	SILT	SANDY, PEBBLY, 20% VA
150-14	+25°	F	STEEP	AL	SILT		GR	SILT	20% VA
266-15	+10°	G	M	AL+SP	SILT		BRN	SILT	GOOD I.S. 5 GPM 10% VA
267-16	+30°	F	ST	AL+SP	SILT		GR -	SILT	SANDY SI
272-17	+75°	SMALL STEEP	ST	AL	SILT		BRN	SILT	STEEP BANK
281-18	+25°	G	STEEP	AL	SILT		GR/BR	SILT	DRY STREAM BED 50% VA
282-19	30°	F	STEEP	AL+W	SILT		GR/BR	SILT	SANDY SILT, 40% VA
287-20	+25°	F	MOD	AL+W	SILT		BRN	SILT	
316-21	+10°	F	MOD	W	SILT		GRAY	SILT	
323-22	+5°	G	MOD	AL+W	SILT		BRN	SILT	GOOD SAMPLE, NO VA.
324-23	+3°	P	MOD	GRASS W	SILT		BRN	SILT	SANDY, 3 GPM
329-24	+10°	F	MOD	AL+W	SILT		GR/BR	SILT	10 GPM
350-25	+3°	P	GRASS	AL SP	SILT		GR/BR	SILT	MUSKEG

LOCATION CO-ORDINATE	TOPO SLOPE	DRAIN	TERR.	VEG.	SOIL TYPE	DEPTH	COLOUR	TEXT	REMARKS
351-26	4°	P	MOD	SP W	SILSIL		GR BRN	SILT	10-20% VA BOULDER GRAVEL
352-27	4°	P	MOD	W	SILT		BRN GRA	SILT	MUSKEG 10% VA
353-28	+5°	P	MOD	W AL	SILT		BRN GR.	SILT	BOULDER GRAVEL
355-29	+5°	P	MOD	AL SP	SILT		BRN GR	SILT	START OF STEEP SLOPE, N
360-30	+5°	P	FLAT	AL SP W	SILT		BRN GR	SILT	VA 15%
361-31	+10°	P	MOD	AL SP W	SILT		GR BRN	SILT	SMALL MSK STREAM
362-32	+5°	P	FLAT	AL W SP	SILT		GR BRN	SILT	MUSKEG
363-33	+2°	P	FLAT	AL SP W	SILT		GR BRN	SILT	20% VA, MSK.
364-34	+5°	P	FLAT	AL SP W	SILT		GR BRN	SILT	BASE OF +25° SLOPE
368-35	18	P	FLAT	AL SP W	SILT		GR	SILT	SANDY
369-36	+4°	P	FLAT	AL/W	SILT		GR	SILT	20% VA
370-37	4°	P	FLAT	AL SP W	SILT		GR/BR	SILT	5% VA
371-38	+5°	P	FLAT	AL	SILT		GR/BR	SILT	SANDY. PEBBLE. GRAVEL

SILT - CONT'D

LOCATION CO-ORDINATE	TOPO SLOPE	DRAIN	TERR.	VEG.	SOIL TYPE	DEPTH	COLOUR	TEXT	REMARKS	
372-39	+10°	F	MOD	AL	SILT		BRN/GR	SILT	15% VA	
373-40	+4°	GOOD	MOD	AL/SP	SILT		GR/BRN	SILT	15 GPM, SANDY/ GRAVEL	B
374-41	10°	GOOD	MOD	AL/GR	SILT		BRN/GR	SILT	20 GPM	
376-42	+15°	GOOD	MOD	AL/SP	SILT		GR/BRN	SILT	20 GPM, BO	
377-43	+5°	POOR	MOD	AL/W	SILT		BRN	SILT	TRICKLE	

AUG 4, 2015

SOIL

LOCATION CO-ORDINATE	TOPO SLOPE	DRAIN	TERR.	VEG.	SOIL TYPE	DEPTH	COLOUR	TEXT	REMARKS
89-1	30°	G	STEEP	SP AL	B	.20	BROWN	Pb SA, SI	SAMPLE FROM CREEK BANK
89-2	+30°	G	ST	AL	Pb, SI Sa	30° .15	LT GR, RR	CR	SLOPE ABOVE CREEK BANK
91-3	40°	FAIR	ST	AL	GL	.20	DK GR	CR	10% VA - SLIDE SLOPE
110-4	+15	G	ST	FOP AL	B	.20	DK BR	CR	NO VA, DRY
134-5	+35°	G	ST	NONE	TA FI°	.20	DK BR	Sa	TALUS SLOPE, GOOD SAMPLE
135-6	+45°	G	ST	O	TA FI°	.10	DK BR	Sa	DAMP, FAULT ZONE
137-7	+35°	G	ST	W	TA FI°	.20	BR	Sa	NARROW GULLY
142-8	+25°	G	ST	W	TA FI°	.10	BR	Sa	QTZ VEIN ZONE
159-9	+35°	G	ST	W	TA FI°	.15	BR	Sa	TOP OF TALUS SLOPE
160-10	+45°	G	ST	O	TA FI°	.10	BR	Sa	BASE OF OUTCROP
201-11	+35°	G	ST	W+AL	SI TA-RR	.15	OR/BR	Sa/CY	
206-12	+35°	G	ST	W	30% CLAY	.15	BR	SANDY CLAY	DAMP, STICKY CLAY
210-13	+40°	G	ST	O	TA FI°	.15	OR/BR	Sa	CENTRE GULLY - TALUS

SOIL CONT'D

LOCATION CO-ORDINATE	TOPO SLOPE	DRAIN	TERR.	VEG.	SOIL TYPE	DEPTH	COLOUR	TEXT	REMARKS
213-14	+35°	G	ST	AL UP SLOPE	TA FI°	.10	OR/BR	Sa	DAMP/BELOW Oc
100-15									
219-16	+30°	G	ST	O	TA FI°	.10	BRN	Sa	DARK BRN. DAMP
220-17	+35°	G	ST	W	TA FI°	.15	BRN	Sa	NARROW OF TA SLOPE
220-18	+35°	G	ST	O	TA FI°	.15	BRN	Sa	SMALL OF TA SLOPE/QTZ. V
223-19	+25°	G	ST	W	TA FI°	.15	BRN	Sa	TOP OF SMALL TA SLOPE
225-20	+40°	G	ST	O	TA FI°	.20	BRN	Sa	GOOD, FLAKEY SOIL/DAMP
226-21	+35°	G	ST	W	TA FI°	.15	BRN/GR	DAMP Sa	N SIDE OF TA SLOPE GOOD SOIL
228-22	+40°	G	ST	FOP	TA FI°	.10	BRN	Sa	GOOD SOIL / DAMP
239-23	+35°	G	ST	W/AL	TA FI°	.15	BRN	Sa	GOOD/DAMP SOIL
245-24	+35°	G	ST	W/AL	TA FI°	.15	O/BRN	Sa	SIDERITE OR/DRY
249-25	+40°	G	ST	W	TA FI°	.05	OR/BR	Sa	VERY LITTLE SOIL
254-26	+35°	G	ST	W/AL	TA FI°	.10	BRN	Sa	SILTY SOIL

SOIL - CONT'D

LOCATION CO-ORDINATE	TOPO SLOPE	DRAIN	TERR.	VEG.	SOIL TYPE	DEPTH	COLOUR	TEXT	REMARKS
255-27	+25°	F	ST	AL	B	.10	BRN	CRUMBLY	UP SLOPE PAULTER TR.
256-28	+45°	F	ST	W	TA FI°	.15	DK. BR	Sa SOIL	DAMP, DK. BRN SOIL
291-29	+20°	F	MOD	AL+W	B	.15	DK. BR	Sa SOIL	CLOSE TO Oc.
365-30	+20°	G	MOD	SP	C	1.2	BRN	Sa SOIL	PIT IN GR.

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Bureau Veritas Commodities Canada Ltd.
9050 Shaughnessy St Vancouver BC V6P 6E5 CANADA
PHONE (604) 253-3158

Client: **Atled Exploration Management Ltd.**
702-181 Athletes Way
Vancouver BC V5Y 0E5 CANADA

Submitted By: Gutrath Gordon
Receiving Lab: Canada-Whitehorse
Received: October 08, 2015
Report Date: October 21, 2015
Page: 1 of 2

CERTIFICATE OF ANALYSIS WHI15000222.1

CLIENT JOB INFORMATION

Project: Kelli Project Soil
Shipment ID:
P.O. Number
Number of Samples: 30

SAMPLE DISPOSAL

RTRN-PLP Return
DISP-RJT-SOIL Immediate Disposal of Soil Reject

Bureau Veritas does not accept responsibility for samples left at the laboratory after 90 days without prior written instructions for sample storage or return.

SAMPLE PREPARATION AND ANALYTICAL PROCEDURES

Procedure Code	Number of Samples	Code Description	Test Wgt (g)	Report Status	Lab
Dry at 60C	30	Dry at 60C			WHI
SS80	30	Dry at 60C sieve 100g to -80 mesh			WHI
AQ200	30	1:1:1 Aqua Regia digestion ICP-MS analysis	0.5	Completed	VAN

ADDITIONAL COMMENTS

Invoice To: Atled Exploration Management Ltd.
702-181 Athletes Way
Vancouver BC V5Y 0E5
CANADA

CC:

BRITISH COLUMBIA CERTIFIED ASSAYER
Marcus Lau
MARCUS LAU
Geochemical Laboratory Manager

This report supersedes all previous preliminary and final reports with this file number dated prior to the date on this certificate. Signature indicates final approval; preliminary reports are unsigned and should be used for reference only.
All results are considered the confidential property of the client. Bureau Veritas assumes the liabilities for actual cost of analysis only. Results apply to samples as submitted.
"*" asterisk indicates that an analytical result could not be provided due to unusually high levels of interference from other elements.

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9050 Shaughnessy St Vancouver BC V6P 6E5 CANADA
PHONE (604) 253-3158

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Client: **Atled Exploration Management Ltd.**
702-181 Athletes Way
Vancouver BC V5Y 0E5 CANADA

Project: Kelli Project
Report Date: October 21, 2015

CERTIFICATE OF ANALYSIS WHI15000222.1

	Method	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200
	Analyte	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P	La
	Unit	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%	%	ppm
	MDL	0.1	0.1	0.1	1	0.1	0.1	0.1	1	0.01	0.5	0.5	0.1	1	0.1	0.1	0.1	2	0.01	0.001	1
SSo1	Soil	1.4	104.8	12.3	90	0.2	35.8	26.2	796	4.45	23.2	83.0	1.6	51	0.3	0.6	0.2	62	1.54	0.093	9
SSo2	Soil	2.3	151.7	21.3	105	0.4	39.7	31.3	951	5.13	34.8	44.1	1.5	51	0.3	0.9	0.3	58	1.92	0.079	9
SSo3	Soil	1.1	69.9	8.0	108	0.2	36.9	19.2	823	3.53	11.5	17.8	1.1	46	0.4	0.6	0.2	60	1.33	0.092	9
SSo4	Soil	2.0	125.2	17.5	94	0.4	50.2	30.0	1044	5.21	26.2	390.3	1.1	31	0.4	0.6	0.2	85	0.59	0.092	8
SSo5	Soil	2.9	351.7	5.9	69	1.0	49.4	49.3	1310	5.74	6.1	142.0	0.8	99	0.3	0.3	0.6	127	5.43	0.065	6
SSo6	Soil	2.6	483.9	8.6	72	1.5	49.7	54.1	1364	5.99	6.8	307.3	0.8	104	0.3	0.3	0.6	113	5.43	0.064	5
SSo7	Soil	2.8	193.7	6.4	75	1.4	43.7	51.0	1071	6.28	6.6	148.6	1.1	106	0.3	0.3	0.9	86	3.97	0.081	7
SSo8	Soil	26.2	470.3	29.7	92	10.8	41.8	85.4	1074	22.27	88.3	3749.7	0.7	123	1.4	1.0	7.4	80	2.50	0.145	5
SSo9	Soil	3.8	257.7	5.1	73	0.5	39.4	47.8	1323	5.11	8.2	75.9	0.9	68	0.3	0.4	0.8	76	3.77	0.111	7
SSo10	Soil	2.8	163.5	7.3	67	0.4	33.9	30.9	930	4.30	13.1	39.5	1.0	74	0.2	0.6	0.6	58	2.15	0.099	11
SSo11	Soil	5.5	268.9	8.4	73	2.3	71.4	54.1	857	6.94	11.4	986.8	0.6	100	0.5	0.4	1.2	65	3.72	0.082	4
SSo12	Soil	46.9	112.0	13.3	75	1.1	50.4	35.4	669	4.89	6.4	161.8	0.7	77	0.4	0.4	1.3	45	2.81	0.081	3
SSo13	Soil	2.0	222.9	7.4	91	0.9	68.5	59.0	971	6.99	12.0	105.0	0.5	93	0.4	0.5	1.5	66	3.49	0.070	4
SSo14	Soil	1.4	88.0	15.3	112	4.1	42.1	31.1	1089	5.21	8.4	492.8	0.5	57	0.5	0.4	1.0	61	2.08	0.064	6
SSo15	Soil	5.7	127.4	9.4	73	1.5	33.0	30.5	882	4.39	6.1	191.8	0.4	126	0.6	0.2	0.8	51	4.89	0.073	4
SSo16	Soil	37.0	146.8	9.4	68	0.6	43.8	57.6	1209	6.01	5.0	153.2	1.5	76	0.3	0.3	1.1	64	3.84	0.100	8
SSo17	Soil	6.8	381.6	14.7	150	2.6	46.9	52.7	931	8.53	26.8	492.4	1.5	89	0.6	1.3	1.8	87	3.00	0.095	5
SSo18	Soil	32.3	117.4	10.6	95	2.1	37.3	40.4	1040	6.64	2.5	269.1	1.8	80	0.5	0.2	1.6	75	3.33	0.083	7
SSo19	Soil	2.8	291.9	4.9	81	0.6	37.6	54.7	1219	7.47	7.8	207.1	1.8	57	0.4	0.3	0.7	123	2.07	0.098	11
SSo20	Soil	3.3	109.9	8.0	82	0.3	28.0	28.3	738	4.44	12.2	46.8	1.4	95	0.3	0.3	0.2	50	3.03	0.105	8
SSo21	Soil	2.4	75.6	8.7	75	0.3	20.4	19.7	648	3.17	10.4	68.9	1.0	95	0.3	0.3	0.2	29	3.39	0.085	8
SSo22	Soil	1.9	198.0	5.5	67	0.4	30.0	31.4	817	4.10	4.9	62.5	1.0	64	0.2	0.3	0.2	67	3.18	0.075	9
SSo23	Soil	2.6	314.2	7.5	100	0.5	45.0	61.8	1434	6.52	8.8	39.6	0.6	62	0.7	0.5	0.5	115	3.67	0.088	7
SSo24	Soil	2.1	107.0	9.6	149	0.4	48.8	45.1	1321	8.87	6.5	10.1	1.7	115	0.3	0.7	0.8	51	5.34	0.081	4
SSo25	Soil	4.3	194.1	10.6	125	0.4	41.3	42.9	1165	6.13	10.7	12.3	1.2	86	0.5	0.6	0.5	113	4.33	0.088	6
SSo26	Soil	2.5	108.2	15.5	136	0.5	63.8	30.1	824	4.71	65.0	18.2	1.5	91	0.8	1.4	0.2	45	2.28	0.112	8
SSo27	Soil	5.4	150.0	18.7	201	1.2	157.8	45.3	641	4.93	218.7	34.0	1.3	190	1.4	2.5	0.2	46	3.89	0.096	6
SSo28	Soil	2.6	124.0	16.0	144	0.8	117.9	38.0	606	4.03	142.9	34.3	1.2	142	1.0	1.0	0.2	53	2.71	0.090	6
SSo29	Soil	5.4	214.8	8.5	102	0.4	23.3	34.1	1471	7.30	10.6	34.0	0.8	98	0.3	0.4	<0.1	81	2.22	0.114	7
SSo30	Soil	1.2	73.7	7.6	112	0.1	52.1	22.1	788	3.90	36.6	5.2	1.0	79	0.4	1.7	0.1	56	1.86	0.080	7

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BUREAU VERITAS MINERAL LABORATORIES Canada

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Bureau Veritas Commodities Canada Ltd.
9050 Shaughnessy St Vancouver BC V6P 6E5 CANADA
PHONE (604) 253-3158

Client: **Atled Exploration Management Ltd.**
702-181 Athletes Way
Vancouver BC V5Y 0E5 CANADA

Project: Kelli Project
Report Date: October 21, 2015

CERTIFICATE OF ANALYSIS WHI15000222.1

Method		AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200
Analyte		Cr	Mg	Ba	Ti	B	Al	Na	K	W	Hg	Sc	Tl	S	Ga	Se	Te
Unit		ppm	%	ppm	%	ppm	%	%	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm
MDL		1	0.01	1	0.001	20	0.01	0.001	0.01	0.1	0.01	0.1	0.1	0.05	1	0.5	0.2
SSo1	Soil	44	1.23	70	0.058	<20	1.69	0.017	0.07	<0.1	0.02	7.1	<0.1	<0.05	4	<0.5	0.2
SSo2	Soil	45	1.27	83	0.045	<20	1.70	0.011	0.10	0.1	0.03	8.1	<0.1	<0.05	4	0.5	0.2
SSo3	Soil	46	1.12	100	0.056	<20	1.65	0.021	0.06	0.1	0.03	5.7	<0.1	<0.05	4	<0.5	<0.2
SSo4	Soil	76	1.73	78	0.066	<20	2.00	0.007	0.08	0.1	0.02	9.4	<0.1	<0.05	6	<0.5	0.4
SSo5	Soil	89	2.02	76	0.010	<20	2.36	0.008	0.05	<0.1	<0.01	16.2	<0.1	0.19	6	0.9	0.6
SSo6	Soil	84	2.07	52	0.008	<20	2.40	0.006	0.05	<0.1	0.01	17.4	<0.1	0.17	6	0.9	0.7
SSo7	Soil	56	1.47	45	0.005	<20	1.56	0.006	0.05	<0.1	0.01	13.5	<0.1	0.24	4	0.8	0.8
SSo8	Soil	10	1.22	43	0.003	<20	1.42	0.004	0.06	<0.1	0.03	17.6	<0.1	2.44	4	6.1	9.7
SSo9	Soil	46	1.96	103	0.011	<20	2.40	0.007	0.09	0.1	0.02	11.5	<0.1	0.12	5	0.6	0.6
SSo10	Soil	41	1.22	78	0.027	<20	1.59	0.011	0.06	0.1	0.03	7.2	<0.1	0.15	4	<0.5	0.5
SSo11	Soil	70	1.90	49	0.003	<20	1.33	0.007	0.06	<0.1	0.03	12.9	<0.1	0.69	4	1.4	1.5
SSo12	Soil	56	1.59	34	0.002	<20	1.25	0.005	0.06	<0.1	0.02	7.6	<0.1	0.90	3	1.1	1.2
SSo13	Soil	37	1.60	59	0.004	<20	1.37	0.005	0.07	<0.1	0.03	12.5	<0.1	0.27	3	1.1	0.8
SSo14	Soil	60	1.30	188	0.007	<20	1.61	0.009	0.06	<0.1	0.05	10.8	<0.1	0.13	4	0.7	4.2
SSo15	Soil	34	1.24	49	0.002	<20	1.29	0.007	0.06	<0.1	0.02	10.0	<0.1	0.55	3	0.5	1.7
SSo16	Soil	70	1.75	53	0.008	<20	2.00	0.004	0.05	<0.1	0.02	9.4	<0.1	0.36	5	1.0	0.8
SSo17	Soil	37	1.53	44	0.006	<20	1.67	0.005	0.06	<0.1	0.03	12.8	<0.1	0.88	5	1.6	1.8
SSo18	Soil	42	1.23	137	0.004	<20	1.96	0.007	0.07	<0.1	0.02	12.7	<0.1	0.42	5	0.7	1.6
SSo19	Soil	50	2.32	113	0.023	<20	2.71	0.006	0.12	<0.1	0.02	13.4	<0.1	0.10	6	0.6	0.7
SSo20	Soil	38	1.22	52	0.009	<20	1.64	0.006	0.04	<0.1	0.01	6.7	<0.1	0.16	4	0.5	0.2
SSo21	Soil	25	0.91	68	0.004	<20	1.21	0.008	0.08	<0.1	0.01	4.7	<0.1	0.14	4	<0.5	<0.2
SSo22	Soil	49	1.25	87	0.007	<20	1.66	0.008	0.06	<0.1	0.01	8.7	<0.1	0.09	5	<0.5	<0.2
SSo23	Soil	54	2.13	146	0.066	<20	2.38	0.009	0.33	0.2	0.03	10.2	0.2	0.11	6	0.9	0.5
SSo24	Soil	18	1.38	69	0.002	<20	0.80	0.007	0.08	<0.1	0.02	14.1	<0.1	0.40	2	0.7	0.4
SSo25	Soil	54	1.94	149	0.050	<20	2.31	0.034	0.50	0.1	0.02	13.0	0.2	0.19	6	0.9	0.3
SSo26	Soil	37	1.10	73	0.024	<20	1.20	0.009	0.05	0.1	0.03	6.7	<0.1	0.25	3	2.5	0.3
SSo27	Soil	75	1.27	100	0.005	<20	0.67	0.006	0.04	0.2	0.03	9.6	<0.1	0.37	2	8.8	0.3
SSo28	Soil	87	1.38	109	0.005	<20	0.80	0.005	0.05	0.1	0.03	10.0	<0.1	0.09	3	2.7	0.3
SSo29	Soil	23	1.67	123	0.111	<20	2.98	0.096	0.52	0.1	0.02	7.4	0.2	<0.05	8	1.0	<0.2
SSo30	Soil	43	1.20	124	0.053	<20	1.12	0.012	0.13	<0.1	0.03	7.8	<0.1	<0.05	3	0.7	<0.2

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Bureau Veritas Commodities Canada Ltd.
9050 Shaughnessy St Vancouver BC V6P 6E5 CANADA
PHONE (604) 253-3158

Client: **Atled Exploration Management Ltd.**
702-181 Athletes Way
Vancouver BC V5Y 0E5 CANADA

Project: Kelli Project
Report Date: October 21, 2015

QUALITY CONTROL REPORT WHI15000222.1

	Method	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200
	Analyte	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P	La
	Unit	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%	%	ppm
	MDL	0.1	0.1	0.1	1	0.1	0.1	0.1	1	0.01	0.5	0.5	0.1	1	0.1	0.1	0.1	2	0.01	0.001	1
Pulp Duplicates																					
SSo22	Soil	1.9	198.0	5.5	67	0.4	30.0	31.4	817	4.10	4.9	62.5	1.0	64	0.2	0.3	0.2	67	3.18	0.075	9
REP SSo22	QC	1.9	205.8	5.3	69	0.4	30.0	31.0	867	3.93	5.2	53.0	0.9	67	0.2	0.3	0.2	65	3.22	0.079	8
Reference Materials																					
STD DS10	Standard	12.6	160.7	150.2	387	2.0	75.9	13.3	875	2.79	49.4	57.1	7.6	66	2.8	10.9	13.2	43	1.01	0.076	18
STD OREAS45EA	Standard	1.6	685.6	15.1	32	0.3	355.6	52.2	386	22.83	12.0	56.2	11.3	4	<0.1	0.5	0.3	262	0.04	0.029	7
STD DS10 Expected		13.6	154.61	150.55	370	2.02	74.6	12.9	875	2.7188	46.2	91.9	7.5	67.1	2.62	9	11.65	43	1.0625	0.0765	17.5
STD OREAS45EA Expected		1.6	709	14.3	31.4	0.26	381	52	400	23.51	10.3	53	10.7	3.5	0.03	0.32	0.26	303	0.036	0.029	7.06
BLK	Blank	<0.1	<0.1	<0.1	<1	<0.1	<0.1	<0.1	<1	<0.01	<0.5	<0.5	<0.1	<1	<0.1	<0.1	<0.1	<2	<0.01	<0.001	<1

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9050 Shaughnessy St Vancouver BC V6P 6E5 CANADA
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Client: **Atled Exploration Management Ltd.**
702-181 Athletes Way
Vancouver BC V5Y 0E5 CANADA

Project: Kelli Project
Report Date: October 21, 2015

QUALITY CONTROL REPORT WHI15000222.1

	Method	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200
	Analyte	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Hg	Sc	Tl	S	Ga	Se	Te
	Unit	ppm	%	ppm	%	ppm	%	%	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm
	MDL	1	0.01	1	0.001	20	0.01	0.001	0.01	0.1	0.01	0.1	0.1	0.05	1	0.5	0.2
Pulp Duplicates																	
SSo22	Soil	49	1.25	87	0.007	<20	1.66	0.008	0.06	<0.1	0.01	8.7	<0.1	0.09	5	<0.5	<0.2
REP SSo22	QC	48	1.32	86	0.007	<20	1.58	0.007	0.06	<0.1	0.01	8.4	<0.1	0.06	5	0.5	<0.2
Reference Materials																	
STD DS10	Standard	55	0.86	432	0.081	<20	1.02	0.073	0.33	3.3	0.30	2.9	5.4	0.25	4	2.6	5.2
STD OREAS45EA	Standard	817	0.10	152	0.102	<20	2.83	0.019	0.05	<0.1	<0.01	76.3	<0.1	<0.05	12	0.7	<0.2
STD DS10 Expected		54.6	0.775	412	0.0817		1.0259	0.067	0.338	3.32	0.3	2.8	5.1	0.29	4.3	2.3	5.01
STD OREAS45EA Expected		849	0.095	148	0.0984		3.13	0.02	0.053			78	0.072	0.036	12.4	0.78	0.07
BLK	Blank	<1	<0.01	<1	<0.001	<20	<0.01	<0.001	<0.01	<0.1	<0.01	<0.1	<0.1	<0.05	<1	<0.5	<0.2

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Bureau Veritas Commodities Canada Ltd.
9050 Shaughnessy St Vancouver BC V6P 6E5 CANADA
PHONE (604) 253-3158

Client: **Atled Exploration Management Ltd.**
702-181 Athletes Way
Vancouver BC V5Y 0E5 CANADA

Submitted By: Gutrath Gordon
Receiving Lab: Canada-Whitehorse
Received: August 18, 2015
Report Date: September 11, 2015
Page: 1 of 3

CERTIFICATE OF ANALYSIS WHI15000149.1

CLIENT JOB INFORMATION

Project: Kelli Project
Shipment ID:
P.O. Number
Number of Samples: 43

Silt

SAMPLE DISPOSAL

RTRN-PLP Return
DISP-RJT-SOIL Immediate Disposal of Soil Reject

Bureau Veritas does not accept responsibility for samples left at the laboratory after 90 days without prior written instructions for sample storage or return.

SAMPLE PREPARATION AND ANALYTICAL PROCEDURES

Procedure Code	Number of Samples	Code Description	Test Wgt (g)	Report Status	Lab
Dry at 60C	43	Dry at 60C			WHI
SS80	43	Dry at 60C sieve 100g to -80 mesh			WHI
AQ200	43	1:1:1 Aqua Regia digestion ICP-MS analysis	0.5	Completed	VAN

ADDITIONAL COMMENTS

Invoice To: Atled Exploration Management Ltd.
702-181 Athletes Way
Vancouver BC V5Y 0E5
CANADA

CC:

BRITISH COLUMBIA CERTIFIED ASSAYER
MARCUS LAU
Geochemical Laboratory Manager

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All results are considered the confidential property of the client. Bureau Veritas assumes the liabilities for actual cost of analysis only. Results apply to samples as submitted.
"*" asterisk indicates that an analytical result could not be provided due to unusually high levels of interference from other elements.

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Project: Kelli Project
Report Date: September 11, 2015

CERTIFICATE OF ANALYSIS WHI15000149.1

Method		AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200
Analyte		Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P	La
Unit		ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%	%	ppm
MDL		0.1	0.1	0.1	1	0.1	0.1	0.1	1	0.01	0.5	0.5	0.1	1	0.1	0.1	0.1	2	0.01	0.001	1
SSi01	Silt	1.2	44.8	23.5	132	<0.1	32.9	16.8	635	3.95	12.8	16.1	1.0	30	0.3	0.4	<0.1	81	0.64	0.083	7
SSi02	Silt	1.2	43.4	15.2	127	<0.1	33.6	17.5	663	3.63	14.5	10.8	0.7	31	0.2	0.3	<0.1	67	0.64	0.074	7
SSi03	Silt	1.1	42.7	6.9	92	0.1	33.0	16.4	766	2.93	14.4	14.9	0.7	33	0.2	0.4	0.1	48	0.68	0.075	8
SSi04	Silt	1.0	38.0	10.5	95	<0.1	33.4	16.7	617	3.28	11.7	5.4	0.8	29	0.2	0.3	<0.1	62	0.61	0.083	7
SSi05	Silt	1.3	47.0	10.8	92	0.1	32.5	15.7	702	3.04	15.6	11.2	0.8	31	0.2	0.5	<0.1	47	0.61	0.078	8
SSi06	Silt	1.1	47.1	11.5	77	0.1	32.1	15.2	603	3.09	14.6	8.3	0.7	27	0.2	0.4	<0.1	52	0.53	0.077	7
SSi07	Silt	1.3	49.8	15.5	92	0.1	33.5	17.8	731	3.38	20.4	8.9	0.8	31	0.3	0.5	<0.1	61	0.65	0.078	7
SSi08	Silt	1.4	56.9	14.8	132	0.2	35.7	20.7	958	3.51	30.1	10.3	0.7	39	0.5	0.6	0.1	54	0.91	0.082	8
SSi09	Silt	1.3	44.0	14.0	82	0.1	30.8	16.8	766	3.17	22.3	7.1	0.6	36	0.3	0.5	<0.1	50	0.82	0.068	8
SSi10	Silt	2.1	54.2	31.2	115	0.2	35.5	17.1	972	3.16	15.9	12.4	0.6	42	0.4	0.5	0.1	46	1.07	0.082	8
SSi11	Silt	1.2	49.7	7.8	92	0.1	34.3	16.7	602	3.36	13.1	53.0	0.9	31	0.2	0.4	<0.1	63	0.88	0.085	7
SSi12	Silt	2.3	100.5	26.1	110	0.2	47.2	25.4	901	4.61	32.1	12.3	0.9	61	0.5	0.6	0.2	52	1.75	0.089	7
SSi13	Silt	2.4	127.1	8.4	105	0.2	39.4	25.2	983	3.77	8.3	16.9	0.8	78	0.4	0.3	0.2	73	1.34	0.081	7
SSi14	Silt	2.5	93.1	16.1	90	0.1	36.9	20.4	785	3.42	7.3	6.2	1.1	57	0.3	0.3	0.1	63	1.07	0.081	7
SSi15	Silt	1.2	33.9	13.1	77	<0.1	31.3	16.2	731	3.40	5.8	8.6	1.1	24	0.2	0.2	<0.1	61	0.63	0.077	7
SSi16	Silt	0.8	38.6	10.2	77	<0.1	29.9	16.9	706	3.14	6.8	6.0	0.9	26	0.2	0.3	<0.1	56	0.69	0.072	8
SSi17	Silt	0.9	26.4	7.5	74	<0.1	24.2	15.0	521	3.28	5.7	39.3	0.8	23	0.2	0.2	<0.1	75	0.56	0.084	6
SSi18	Silt	1.5	92.9	7.5	78	<0.1	30.9	18.9	737	3.38	7.4	10.4	0.7	51	0.3	0.4	<0.1	66	1.16	0.079	7
SSi19	Silt	1.9	105.2	9.3	79	0.1	31.0	18.0	763	3.16	8.8	4.5	0.6	49	0.2	0.4	<0.1	57	1.31	0.077	7
SSi20	Silt	1.1	53.2	7.4	83	<0.1	30.2	17.0	684	2.89	8.8	4.9	0.8	37	0.2	0.4	<0.1	47	0.99	0.078	8
SSi21	Silt	3.0	101.0	66.4	91	0.2	43.0	33.3	1116	4.76	12.4	128.8	1.2	57	0.4	0.4	0.2	66	1.52	0.115	8
SSi22	Silt	1.7	119.7	19.6	155	0.3	36.7	31.9	1035	5.24	11.0	603.8	0.8	48	0.7	0.4	0.2	88	0.85	0.103	6
SSi23	Silt	2.2	155.8	20.6	138	0.3	36.4	31.6	1037	4.63	14.3	143.9	0.7	58	0.6	0.5	0.2	76	0.98	0.099	7
SSi24	Silt	2.3	72.3	32.6	84	0.1	39.2	18.4	706	3.18	8.1	87.8	0.8	52	0.3	0.4	<0.1	61	0.74	0.090	6
SSi25	Silt	0.9	28.3	16.3	89	<0.1	32.4	10.9	387	2.62	4.7	4.5	0.8	25	0.2	0.3	<0.1	62	0.65	0.059	6
SSi26	Silt	0.9	26.1	7.4	94	<0.1	34.1	14.1	422	3.06	5.8	5.4	0.9	24	0.1	0.3	<0.1	80	0.64	0.066	6
SSi27	Silt	3.6	21.2	55.7	100	<0.1	46.0	14.9	443	3.78	6.8	4.8	0.8	23	0.1	0.4	<0.1	102	0.57	0.072	6
SSi28	Silt	3.1	25.7	57.1	99	<0.1	41.2	14.7	449	3.04	7.6	1.2	0.9	25	0.1	0.3	<0.1	76	0.60	0.070	6
SSi29	Silt	1.5	30.1	8.3	85	<0.1	31.7	13.6	450	3.01	6.4	5.4	0.9	28	0.2	0.4	<0.1	76	0.63	0.059	7
SSi30	Silt	1.3	35.2	20.1	107	<0.1	34.1	13.7	462	3.24	7.5	3.0	1.1	31	0.1	0.4	<0.1	79	0.73	0.072	7

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BUREAU VERITAS MINERAL LABORATORIES Canada

Bureau Veritas Commodities Canada Ltd.
9050 Shaughnessy St Vancouver BC V6P 6E5 CANADA
PHONE (604) 253-3158

www.bureauveritas.com/um

Client: **Atled Exploration Management Ltd.**
702-181 Athletes Way
Vancouver BC V5Y 0E5 CANADA

Project: Kelli Project
Report Date: September 11, 2015

CERTIFICATE OF ANALYSIS WHI15000149.1

Method		AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200
Analyte		Cr	Mg	Ba	Ti	B	Al	Na	K	W	Hg	Sc	Tl	S	Ga	Se	Te
Unit		ppm	%	ppm	%	ppm	%	%	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm
MDL		1	0.01	1	0.001	20	0.01	0.001	0.01	0.1	0.01	0.1	0.1	0.05	1	0.5	0.2
SSi01	Silt	46	1.06	74	0.081	<20	1.48	0.015	0.06	<0.1	0.02	4.4	<0.1	<0.05	5	<0.5	<0.2
SSi02	Silt	43	0.99	74	0.064	<20	1.33	0.011	0.06	<0.1	0.01	4.0	<0.1	<0.05	4	<0.5	<0.2
SSi03	Silt	40	0.97	91	0.042	<20	1.44	0.014	0.05	0.1	0.02	3.9	<0.1	<0.05	4	<0.5	<0.2
SSi04	Silt	41	0.95	71	0.060	<20	1.39	0.013	0.05	<0.1	0.02	4.0	<0.1	<0.05	5	<0.5	<0.2
SSi05	Silt	41	0.95	89	0.046	<20	1.31	0.010	0.05	0.1	0.02	4.2	<0.1	<0.05	4	<0.5	<0.2
SSi06	Silt	36	0.94	67	0.052	<20	1.24	0.009	0.05	0.9	<0.01	4.3	<0.1	<0.05	4	<0.5	<0.2
SSi07	Silt	41	0.91	81	0.055	<20	1.34	0.012	0.06	<0.1	0.02	4.7	<0.1	<0.05	4	<0.5	<0.2
SSi08	Silt	43	1.04	110	0.046	<20	1.47	0.013	0.06	<0.1	0.03	4.9	<0.1	<0.05	4	0.8	<0.2
SSi09	Silt	42	0.93	86	0.045	<20	1.34	0.012	0.05	<0.1	0.02	4.2	<0.1	<0.05	4	<0.5	<0.2
SSi10	Silt	43	0.84	97	0.032	<20	1.23	0.011	0.05	<0.1	0.04	4.3	<0.1	<0.05	4	<0.5	<0.2
SSi11	Silt	45	0.90	74	0.064	<20	1.32	0.012	0.05	0.2	0.02	4.5	<0.1	<0.05	4	<0.5	<0.2
SSi12	Silt	49	1.25	63	0.027	<20	1.55	0.012	0.05	<0.1	0.02	7.0	<0.1	0.22	4	0.9	<0.2
SSi13	Silt	66	1.53	105	0.055	<20	2.16	0.059	0.13	0.1	0.03	7.9	<0.1	<0.05	5	0.8	<0.2
SSi14	Silt	54	1.39	82	0.055	<20	1.88	0.045	0.11	0.2	0.03	6.2	<0.1	<0.05	5	0.5	<0.2
SSi15	Silt	40	0.99	55	0.061	<20	1.36	0.011	0.03	2.6	0.01	4.5	<0.1	<0.05	4	<0.5	<0.2
SSi16	Silt	37	1.01	65	0.046	<20	1.42	0.011	0.04	<0.1	0.02	4.4	<0.1	<0.05	4	<0.5	<0.2
SSi17	Silt	34	0.97	51	0.073	<20	1.33	0.010	0.03	<0.1	0.01	3.8	<0.1	<0.05	5	<0.5	<0.2
SSi18	Silt	45	1.18	96	0.056	<20	1.65	0.035	0.13	<0.1	0.02	6.0	<0.1	<0.05	5	<0.5	<0.2
SSi19	Silt	45	1.07	96	0.050	<20	1.59	0.026	0.12	<0.1	0.03	5.8	<0.1	<0.05	5	0.5	<0.2
SSi20	Silt	38	0.99	82	0.044	<20	1.48	0.017	0.05	<0.1	0.02	4.6	<0.1	<0.05	4	<0.5	<0.2
SSi21	Silt	50	1.47	72	0.021	<20	1.54	0.007	0.07	0.2	0.02	9.4	<0.1	0.25	4	0.5	<0.2
SSi22	Silt	49	1.81	95	0.047	<20	1.95	0.007	0.15	0.2	0.02	8.0	0.2	0.14	5	<0.5	0.3
SSi23	Silt	40	1.51	91	0.044	<20	1.67	0.008	0.16	0.8	0.02	7.3	0.1	0.14	5	0.7	0.3
SSi24	Silt	51	1.20	50	0.056	<20	1.35	0.008	0.08	<0.1	0.01	4.1	<0.1	<0.05	4	<0.5	<0.2
SSi25	Silt	44	0.97	70	0.067	<20	1.15	0.013	0.04	0.1	0.01	3.7	<0.1	<0.05	4	<0.5	<0.2
SSi26	Silt	43	1.07	63	0.103	<20	1.25	0.010	0.04	<0.1	0.01	4.2	<0.1	<0.05	4	<0.5	<0.2
SSi27	Silt	74	0.98	53	0.117	<20	1.23	0.010	0.04	0.1	0.02	3.5	<0.1	<0.05	5	<0.5	<0.2
SSi28	Silt	57	0.95	62	0.090	<20	1.22	0.011	0.04	0.2	0.01	4.0	<0.1	<0.05	4	<0.5	<0.2
SSi29	Silt	43	0.84	68	0.073	<20	1.13	0.014	0.04	0.1	0.02	3.7	<0.1	<0.05	4	<0.5	<0.2
SSi30	Silt	44	0.92	66	0.089	<20	1.11	0.014	0.04	0.6	0.01	4.1	<0.1	<0.05	4	<0.5	<0.2

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www.bureauveritas.com/um

Bureau Veritas Commodities Canada Ltd.
9050 Shaughnessy St Vancouver BC V6P 6E5 CANADA
PHONE (604) 253-3158

Client: **Atled Exploration Management Ltd.**
702-181 Athletes Way
Vancouver BC V5Y 0E5 CANADA

Project: Kelli Project
Report Date: September 11, 2015

CERTIFICATE OF ANALYSIS WHI15000149.1

	Method	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200
	Analyte	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P	La
	Unit	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%	%	ppm
	MDL	0.1	0.1	0.1	1	0.1	0.1	0.1	1	0.01	0.5	0.5	0.1	1	0.1	0.1	0.1	2	0.01	0.001	1
SSi31	Silt	0.9	36.8	6.3	72	<0.1	29.3	14.1	439	2.78	7.5	7.3	0.9	32	0.1	0.5	<0.1	60	0.75	0.066	7
SSi32	Silt	0.6	33.9	4.1	89	<0.1	26.6	12.1	372	2.73	6.2	91.6	0.8	27	<0.1	0.4	<0.1	71	0.71	0.078	6
SSi33	Silt	1.2	48.3	16.3	74	<0.1	32.7	16.3	706	3.05	10.3	14.9	0.9	40	0.2	0.4	<0.1	53	0.96	0.072	7
SSi34	Silt	1.3	53.9	12.5	82	0.1	29.8	15.4	636	2.86	8.4	7.8	0.8	40	0.2	0.3	<0.1	44	0.94	0.076	7
SSi35	Silt	1.7	66.4	12.6	113	0.2	36.5	17.6	818	3.17	11.1	18.3	1.0	50	0.4	0.5	<0.1	50	1.05	0.088	8
SSi36	Silt	1.1	44.8	9.8	91	0.1	31.6	16.8	737	3.05	8.6	16.3	1.0	37	0.2	0.3	<0.1	52	0.78	0.082	7
SSi37	Silt	1.5	50.2	19.4	103	0.2	35.6	19.0	694	3.28	9.3	591.6	1.1	41	0.2	0.4	<0.1	57	1.01	0.093	8
SSi38	Silt	2.4	72.7	21.6	128	0.2	38.7	25.3	703	4.37	28.1	12.0	1.3	58	0.4	0.7	0.1	48	1.48	0.086	6
SSi39	Silt	2.0	75.3	13.7	109	0.3	36.5	25.5	622	4.49	31.1	21.8	1.0	57	0.5	0.9	0.2	50	1.45	0.087	6
SSi40	Silt	2.4	89.3	20.6	100	0.4	42.6	29.5	641	4.76	38.5	195.7	1.1	57	0.3	0.9	0.2	51	1.55	0.088	6
SSi41	Silt	2.4	71.3	22.6	98	0.3	39.3	24.6	630	4.35	31.3	47.3	1.1	62	0.3	0.8	0.2	48	1.57	0.080	6
SSi42	Silt	2.8	83.3	28.7	106	0.4	41.3	29.8	631	5.47	46.3	29.5	1.0	63	0.4	1.0	0.2	48	1.58	0.088	5
SSi43	Silt	1.1	33.4	5.7	76	<0.1	27.5	13.8	677	2.74	8.2	51.0	1.0	34	0.2	0.4	<0.1	48	0.72	0.063	8

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www.bureauveritas.com/um

Bureau Veritas Commodities Canada Ltd.
9050 Shaughnessy St Vancouver BC V6P 6E5 CANADA
PHONE (604) 253-3158

Client: **Atled Exploration Management Ltd.**
702-181 Athletes Way
Vancouver BC V5Y 0E5 CANADA

Project: Kelli Project
Report Date: September 11, 2015

CERTIFICATE OF ANALYSIS WHI15000149.1

Method		AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200
Analyte		Cr	Mg	Ba	Ti	B	Al	Na	K	W	Hg	Sc	Tl	S	Ga	Se	Te
Unit		ppm	%	ppm	%	ppm	%	%	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm
MDL		1	0.01	1	0.001	20	0.01	0.001	0.01	0.1	0.01	0.1	0.1	0.05	1	0.5	0.2
SSi31	Silt	39	0.96	64	0.076	<20	1.23	0.013	0.04	0.1	0.02	3.9	<0.1	<0.05	4	0.6	<0.2
SSi32	Silt	33	0.78	49	0.081	<20	0.90	0.012	0.04	0.2	<0.01	3.3	<0.1	0.05	3	<0.5	<0.2
SSi33	Silt	37	0.95	77	0.061	<20	1.16	0.013	0.05	<0.1	0.02	4.7	<0.1	<0.05	4	0.7	<0.2
SSi34	Silt	36	0.86	73	0.040	<20	1.22	0.016	0.05	<0.1	0.02	4.3	<0.1	<0.05	4	0.7	<0.2
SSi35	Silt	41	0.97	81	0.030	<20	1.23	0.013	0.06	<0.1	0.02	5.7	<0.1	0.07	4	<0.5	<0.2
SSi36	Silt	37	1.01	61	0.048	<20	1.21	0.010	0.04	<0.1	0.01	4.8	<0.1	<0.05	4	0.6	<0.2
SSi37	Silt	43	0.99	86	0.062	<20	1.29	0.013	0.05	0.2	0.02	5.4	<0.1	<0.05	4	0.5	<0.2
SSi38	Silt	36	1.09	68	0.034	<20	1.10	0.011	0.06	<0.1	0.02	6.9	<0.1	0.71	3	1.3	<0.2
SSi39	Silt	33	1.07	58	0.043	<20	1.11	0.009	0.06	<0.1	0.02	6.7	<0.1	1.02	3	2.2	<0.2
SSi40	Silt	38	1.07	62	0.048	<20	1.09	0.010	0.06	<0.1	0.02	6.8	<0.1	1.29	3	2.0	<0.2
SSi41	Silt	37	1.04	68	0.047	<20	1.10	0.013	0.05	<0.1	0.03	6.4	<0.1	1.01	3	1.7	<0.2
SSi42	Silt	36	1.00	55	0.037	<20	0.97	0.009	0.05	<0.1	0.02	6.7	<0.1	1.73	3	2.5	<0.2
SSi43	Silt	34	0.86	104	0.050	<20	1.23	0.016	0.05	<0.1	0.18	3.9	<0.1	<0.05	4	<0.5	<0.2

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9050 Shaughnessy St Vancouver BC V6P 6E5 CANADA
PHONE (604) 253-3158

Client: **Atled Exploration Management Ltd.**
702-181 Athletes Way
Vancouver BC V5Y 0E5 CANADA

Project: Kelli Project
Report Date: September 11, 2015

QUALITY CONTROL REPORT WHI15000149.1

	Method	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200
	Analyte	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P	La
	Unit	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%	%	ppm
	MDL	0.1	0.1	0.1	1	0.1	0.1	0.1	1	0.01	0.5	0.5	0.1	1	0.1	0.1	0.1	2	0.01	0.001	1
Pulp Duplicates																					
SSi29	Silt	1.5	30.1	8.3	85	<0.1	31.7	13.6	450	3.01	6.4	5.4	0.9	28	0.2	0.4	<0.1	76	0.63	0.059	7
REP SSi29	QC	1.3	29.9	7.9	86	<0.1	31.0	13.5	444	3.11	6.7	4.4	0.8	27	0.2	0.4	<0.1	77	0.64	0.060	6
SSi43	Silt	1.1	33.4	5.7	76	<0.1	27.5	13.8	677	2.74	8.2	51.0	1.0	34	0.2	0.4	<0.1	48	0.72	0.063	8
REP SSi43	QC	1.2	33.4	6.8	82	<0.1	29.4	14.5	665	2.88	8.3	54.0	0.8	35	0.2	0.5	<0.1	51	0.72	0.067	8
Reference Materials																					
STD DS10	Standard	15.1	161.5	158.3	375	1.9	81.0	14.1	989	2.85	51.4	53.7	7.6	67	2.6	8.7	13.0	46	1.12	0.079	18
STD DS10	Standard	15.0	171.8	171.6	398	2.3	80.0	13.2	918	2.88	52.8	61.3	8.4	71	3.0	9.4	13.9	47	1.16	0.083	18
STD DS10	Standard	13.3	171.2	152.8	386	1.8	72.8	12.8	918	2.82	48.1	87.1	8.3	69	2.9	10.6	15.1	45	1.10	0.084	18
STD OREAS45EA	Standard	1.6	772.8	15.5	37	0.3	399.6	53.0	421	21.57	12.7	51.0	10.9	4	<0.1	0.3	0.3	290	0.04	0.032	8
STD OREAS45EA	Standard	1.5	745.9	15.0	35	0.3	391.6	52.5	417	25.15	11.3	50.2	10.0	4	<0.1	0.4	0.3	277	0.04	0.033	7
STD OREAS45EA	Standard	1.5	613.5	14.6	29	0.2	327.0	52.9	362	21.31	11.9	58.3	11.1	4	<0.1	0.4	0.3	265	0.03	0.033	7
STD DS10 Expected		14.69	154.61	150.55	370	2.02	74.6	12.9	875	2.7188	43.7	91.9	7.5	67.1	2.49	8.23	11.65	43	1.0625	0.073	17.5
STD OREAS45EA Expected		1.6	709	14.3	31.4	0.26	381	52	400	23.51	10.3	53	10.7	3.5	0.03	0.32	0.26	303	0.036	0.029	7.06
BLK	Blank	<0.1	0.2	<0.1	<1	<0.1	<0.1	<0.1	<1	<0.01	0.6	<0.5	<0.1	<1	<0.1	<0.1	<0.1	5	<0.01	<0.001	<1
BLK	Blank	<0.1	0.1	<0.1	<1	<0.1	<0.1	<0.1	<1	<0.01	<0.5	<0.5	<0.1	<1	<0.1	<0.1	<0.1	5	<0.01	<0.001	<1
BLK	Blank	<0.1	<0.1	<0.1	<1	<0.1	<0.1	<0.1	<1	<0.01	<0.5	<0.5	<0.1	<1	<0.1	<0.1	<0.1	4	<0.01	<0.001	<1

This report supersedes all previous preliminary and final reports with this file number dated prior to the date on this certificate. Signature indicates final approval; preliminary reports are unsigned and should be used for reference only.

BUREAU VERITAS MINERAL LABORATORIES Canada

www.bureauveritas.com/um

Bureau Veritas Commodities Canada Ltd.
9050 Shaughnessy St Vancouver BC V6P 6E5 CANADA
PHONE (604) 253-3158

Client: **Atled Exploration Management Ltd.**
702-181 Athletes Way
Vancouver BC V5Y 0E5 CANADA

Project: Kelli Project
Report Date: September 11, 2015

QUALITY CONTROL REPORT WHI15000149.1

	Method	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200
	Analyte	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Hg	Sc	Tl	S	Ga	Se	Te
	Unit	ppm	%	ppm	%	ppm	%	%	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm
	MDL	1	0.01	1	0.001	20	0.01	0.001	0.01	0.1	0.01	0.1	0.1	0.05	1	0.5	0.2
Pulp Duplicates																	
SSi29	Silt	43	0.84	68	0.073	<20	1.13	0.014	0.04	0.1	0.02	3.7	<0.1	<0.05	4	<0.5	<0.2
REP SSi29	QC	42	0.85	67	0.073	<20	1.15	0.014	0.04	<0.1	0.01	3.8	<0.1	<0.05	4	<0.5	<0.2
SSi43	Silt	34	0.86	104	0.050	<20	1.23	0.016	0.05	<0.1	0.18	3.9	<0.1	<0.05	4	<0.5	<0.2
REP SSi43	QC	35	0.84	101	0.051	<20	1.25	0.017	0.05	0.1	0.02	4.0	<0.1	<0.05	4	<0.5	<0.2
Reference Materials																	
STD DS10	Standard	61	0.83	456	0.089	<20	1.09	0.076	0.35	2.8	0.30	3.2	5.6	0.25	5	3.0	5.3
STD DS10	Standard	56	0.83	428	0.080	<20	1.08	0.069	0.35	3.4	0.29	3.2	5.5	0.27	5	3.0	5.1
STD DS10	Standard	54	0.82	416	0.077	<20	1.03	0.063	0.34	3.6	0.31	3.1	5.6	0.28	4	2.4	5.5
STD OREAS45EA	Standard	889	0.10	158	0.111	<20	3.28	0.019	0.06	<0.1	<0.01	85.6	<0.1	<0.05	13	1.3	<0.2
STD OREAS45EA	Standard	852	0.10	148	0.099	<20	3.09	0.018	0.05	<0.1	0.02	81.2	<0.1	<0.05	12	0.8	<0.2
STD OREAS45EA	Standard	736	0.10	138	0.089	<20	2.60	0.020	0.05	<0.1	<0.01	74.6	<0.1	<0.05	11	0.9	<0.2
STD DS10 Expected		54.6	0.775	412	0.0817		1.0259	0.067	0.338	3.32	0.3	2.8	5.1	0.29	4.3	2.3	5.01
STD OREAS45EA Expected		849	0.095	148	0.0984		3.13	0.02	0.053			78	0.072	0.036	12.4	0.78	0.07
BLK	Blank	<1	<0.01	<1	<0.001	<20	<0.01	<0.001	<0.01	<0.1	<0.01	<0.1	<0.1	<0.05	<1	<0.5	<0.2
BLK	Blank	<1	<0.01	<1	<0.001	<20	<0.01	<0.001	<0.01	<0.1	<0.01	<0.1	<0.1	<0.05	<1	<0.5	<0.2
BLK	Blank	<1	<0.01	<1	<0.001	<20	<0.01	<0.001	<0.01	<0.1	<0.01	<0.1	<0.1	<0.05	<1	<0.5	<0.2

This report supersedes all previous preliminary and final reports with this file number dated prior to the date on this certificate. Signature indicates final approval; preliminary reports are unsigned and should be used for reference only.

APPENDIX C

ROCK SAMPLES
DESCRIPTION AND ANALYSIS

BUREAU VERITAS LABORATORY

ROCK SAMPLES				
Map No.	Waypoint #	UTM Coordinates		Sample No. and Description
		East	North	
1	36	573272	6824485	**2451/Specimen 8: talus, orange-red oxidized light grey-white chlorite quartz feldspar sericite schist. 5% to 10% fine grained disseminated pyrite. Anlomalous Cu 340 ppm, Au 13 ppb**
2	43	573269	6824426	**2452**/Specimen 11: float, grey amorphous quartz vein with 5% fine to medium grained chalcopyrite, pyrite <1%. Highly anomalous **Cu 10,000 ppm Au 295 ppb**
3	55	573260	6824364	**2453**/Specimen 12: float, brecciated quartz calcite vein, box work after leached pyrite, orange-red oxidized background Cu 92 ppm, Au 9 ppb
4	56	573257	6824354	**2454**/Specimen 13: float, quartz sericite chlorite schist disseminated pyrite 10%, background **Cu 149 ppm, threshold anomalous Au 98 ppb**
5	64	573202	6824322	**2455**/Specimen 17: talus float, 15% fine grained pyrite and lesser chalcopyrite associated with quartz veining in a chlorite carbonate schist/background Cu 37 ppm, Au 12 ppb
6	70	573161	6824286	**2456**/Specimen 20: 5% pyrite, iron oxides on weathered surface, soft, carbonate rich sericite quartz carbonate schist threshold anomalous **Cu 169 ppm Au 43 ppb**
7	100	572779	6823592	**2457**/Specimen 25: float, quartz carbonate breccias with 5% fine grained pyrite and strongly magnetic background Cu 89 ppm, Au 43 ppb
8	125	573260	6824534	**2458**/Specimen 26: 5% fine grained pyrite is a chlorite carbonate schist background Cu 112 ppm, Au 5 ppb
9	126	573258	6824530	**2459** : thin quartz and siderite veinlets cutting strongly foliated chlorite schist pyrite 3% - 5% disseminated background Cu 81 ppm, threshold **Au 61 ppm**
10	142	573212	6824341	**2460** : pyritic oxidized quartz vein zone cut off by fault background Cu 122 ppm, Au 18 ppb

ROCK SAMPLES				
Map No.	**Waypoint**	**UTM Coordinates**		**Sample No. and Description**
11	143	573141	6824313	**2461** : float, quartz chlorite schist, highly oxidized with 10% to 15% fine grained pyrite background Cu 15 ppm, Au 7 ppb
12	145	573194	6824314	**2462**/Specimen 27: float, large angular talus 0.3 m x 0.2 m 10% to 15% in quartz carbonate chlorite schist background Cu 38 ppm, Au 7 ppb
13	153	573161	6824374	**2463**/Specimen 28: (float), fine grained carbonate yellowish-cream colour, banding / bedding / foliation, 5% disseminated pyrite. Highly effervescent in dilute HCl background Cu 17 ppm, Au 9 ppb **anomalous Ca 21%**
14, 15	202	573241	6824335	**2464**/Specimen 32: (talus) dark, fine grained andesite(?) carbonate fracture filling. Pyrite 5%± chalcopyrite, no magnetite threshold anomalous **Cu 117 ppm**, anomalous **Au 181 ppb**, background Ca 4.6%
16	210	573263	6824320	**2465**/Specimen 34: dark grey, massive andesite, oxidized on fractures, 1% quartz blebs, fine grained disseminated pyrite 5%, anomalous **Cu 1,153 ppm**, threshold anomalous **Au 80 ppb**
17	213	573219	6824314	**2466**/Specimen 35: grey-black moderately chloritic foliated andesite, thin quartz veining (5%), 10% fine grained pyrite highly magnetic, moderate effervescence in HCl, background Cu 75 ppm, **highly anomalous Au 1,014 ppb**, background Ca 4%
18	230	573137	6824264	**2467**/Specimen 38: (talus) possible skarn(?), lustrous, fine grained, quartzpatches, no pyrite or magnetite, moderately effervescent in HCl, below background Cu 8 ppm, background Au 8 ppb, background Ca 5%
19	231	573138	6824263	**2468** : (talus) orange oxide weathering competent quartz vein with 3% to 5% pyrite, anomalous **Mo 7.7 ppm** (background Mo is less than 2 ppm), background Cu 10 ppm, threshold background Au 13 ppb

ROCK SAMPLES				
Map No.	**Waypoint**	**UTM Coordinates**		**Sample No. and Description**
20	232	573132	6824262	**2469** : (talus) quartz vein oxidized, boxwork, after pyrite 5%, orange stained fractures, background Mo 1 ppm, background Cu 19 ppm, threshold anomalous **Au 49 ppb**
21	233	573134	6824266	**2470** : (talus) quartz vein, oxidized on fractures, coarse grained pyrite, anomalous **Mo 12 ppm**, low background Cu 9 ppm, anomalous **Au 105 ppb**
			Map 1	**Panel Sampling 2014 Trench between WP 18 and WP 19**
22	18 19	573388 573388	6824617 6824625	**2471** (0.5 m by 0.4 m) black, fissile graphitic argillaceous limestone, no sulfides noted, background Cu 31 ppm, threshold anomalous **As 60 ppm**, subbackground Au 0.5 ppb, **highly anomalous Ca 21%** **2472** (0.4 m by 0.38 m) black fissile graphitic argillaceous limestone. Disseminated pyrite associated with quartz veinlets gouge zone, background Cu 26 ppm, subanomalous **As 74 ppm**, subbackground Au 1 – 2 ppb, **highly anomalous Ca 21%** **2473** (0.5 m by 0.45 m) black graphitic argillaceous limestone, more siliceous, fine quartz veining with gouge, disseminated pyrite 2%, background Cu 26 ppm, subthreshold anomalous As 37 ppb, subbackground Au 2 ppb **highly anomalous Ca 21%** **2474** (0.5 m x 0.45 m) black graphitic argillaceous limestone with more light cream gouge (altered dacite dike contact) 2% - 3 % fine pyrite, background Cu 21 ppm, subthreshold As 31 ppm, subbackground Au 4 ppb, **highly anomalous Ca 23%**

ROCK SAMPLES			
Panel Sampling on west bank of road at outlet of Lower Canyon between UTM Coordinates 573407 E / 6824667 N and 573423 E / 6824686 N			
Sample Number	**Width metre**	**Height metre**	**Description**

ROCK SAMPLES			
Panel Sampling on west bank of road at outlet of Lower Canyon between UTM Coordinates 573407 E / 6824667 N and 573423 E / 6824686 N			
Sample Number	**Width metre**	**Height metre**	**Description**
2476	0.30	0.61	contact south with a competent, moderately foliated limey-siltstone. Thin quartz veins, often as discontinuous lenses pyrite ±3%, highly crenulated greenish black sericite fissile schist. Background Cu 81 ppm, **anomalous As 102 ppm, strongly anomalous Au 630 ppb**, background Ca 4.5% (for the balance of the samples Ca ranges from 2% to 3%)
2477	0.30	0.61	chlorite sericite quartz schist, attitude 290°/V, crenulated along dip. Quartz veinlets make up 2% of mass, pyrite 2%, background Cu 97 ppm, threshold anomalous **As 74 ppm**, background Au 21 ppb
2478	0.30	0.61	fissile sericite chlorite schist 75% of mass, interlayered with irregular–discontinuous quartz veins, oxidized layers 25%, pyrite 5%, threshold anomalous **Cu 99 ppm, anomalous As 116 ppm**, threshold anomalous **Au 81 ppb**
2479	0.61	0.30	fissile sericite chlorite schist, more quartz veinlets 10% pyritic, oxidized foliation planes threshold anomalous **Cu 96 ppm, anomalous As 135 ppm**, threshold anomalous **Au 57 ppb**
2480	0.60	0.30	fissile, chlorite, graphitic sericite schist quartz veining 3%, pyritic. In contact to north with light tan siltstone, moderately foliated with a platy cleavage parallel to foliation, 255°/80 NW, quartz 3% with oxidized contacts, threshold **anomalous Cu 101 ppm, highly anomalous As 347 ppm, anomalous Au 89 ppb**
2481	0.60	0.30	15 cm wide pale tan-cream platy siltstone, 12 cm fine grained sericite-graphite schist, 20 cm into bedded siltstone, graphitic schist, irregular discontinuous quartz lenses, pyrite 3% - 5%, orange oxides on foliation planes. Threshold anomalous **Cu 92 ppm, anomalous As 106 ppm,** threshold anomalous **Au 40 ppb**
2482	0.63	0.30	5 side – 10 cm graphitic schist (280°/V) fissile, quartz veining 2 cm – 3 cm wide, irregular, pale tan-cream siltstone 16 cm with 50% a sericite schist, 5% pyrite with quartz veining, 10 cm of fissile graphitic schist, interlayered graphitic and sericite schist to north end of sample, minor oxides, background Cu 67 ppm, background As 61 ppm, **highly anomalous Au 251 ppb**

ROCK SAMPLES			
Panel Sampling on west bank of road at outlet of Lower Canyon between UTM Coordinates 573407 E / 6824667 N and 573423 E / 6824686 N			
Sample Number	**Width metre**	**Height metre**	**Description**
2483	0.60	0.30	graphitic schist, fissile shearing at 275°/V changing across sample to the north – drag folded axis 300°/80° N plunge 10° W, irregular lens of quartz 10% - 15% interlayered graphite and sericite schist pyritic, patchy oxides on foliation planes, background Cu 61 ppm, background As 32 ppm, threshold anomalous **Au 54 ppb**
2484	0.68	0.30	highly fissile graphitic schist, thin discontinuous quartz veins 2 cm – 3 cm thick, subparallel schistosity, up to 10% mass, minor oxidation, schistosity 285°/V, background Cu 43 ppm, background As 18 ppm, **strongly anomalous Au 150 ppb**
2485	0.60	0.30	fissile graphitic schist but more quartz veining up to 5 cm thick, more oxidation and pyrite associated with quartz veining schistosity 287°/V, background Cu 62 ppm, threshold anomalous **As 68 ppm**, threshold anomalous **Au 82 ppb**
2486	0.60	0.30	(erosion channel cuts the bedrock susrfacde to a depth of 1 m) highly fissile black graphitic schist 270°/80° N, interlayered with platy friable beds, 5% of section quartz veinlets, 95% graphitic schist, background Cu 92 ppm, **anomalous As 185 ppm, anomalous Au 61 ppb**
2487	0.76	0.30	black graphitic-friable schist, quartz veinlets 5% and schist 95% pyrite 5%, background Cu 82 ppm, **highly anomalous As 252 ppm, anomalous Au 50 ppb**
2488	0.60	0.30	graphitic schist and brown sericite interlayered more quartz veining 20% with oxidized pyritic sections, thin cross cutting quartz veins, plus quartz veinlets subparalleling schistosity, background Cu 88 ppm, **anomalous As 11 ppm, anomalous Au 81 ppb**
2489	0.60	0.30	thin sericite schist (5%) and graphitic schist (75%) interlayered, quartz veining associated with pyritic-oxidation (20%) slight change in strike of schistosity 280°/V to 80° N, threshold anomalous Cu 108 ppm, background As 48 ppm, background Au 34 ppb

ROCK SAMPLES			
Panel Sampling on west bank of road at outlet of Lower Canyon between UTM Coordinates 573407 E / 6824667 N and 573423 E / 6824686 N			
Sample Number	**Width metre**	**Height metre**	**Description**
2490	0.60	0.30	starting at end of 2489 25 cm of graphitic schist with 15% 3 cm – 5 cm irregular-discontinuous quartz veins, pyritic-oxidation, balance of sample graphitic and sericite schist interlayered, overall sample graphitic schist 45%, sericite schist 40% and 10% quartz veining, background Cu 65 ppm, threshold anomalous **As 74 ppm**, threshold anomalous **Au 53 ppb**
2491	0.60	0.30	similar to 2490, 30% sericite schist, 60% graphitic schist and 10% quartz veining, lenticular oxidation associated with quartz veining, background Cu 75 ppm, **anomalous As 107 ppm, threshold anomalous Au 88 ppb**
2492	0.60	0.30	sericite schist 10 cm thick forming hanging wall of drag folded section 0.58 m wide, graphitic sericite schist with 10% to 15% quartz veining, cross cutting thin shear/fault cuts across top of folded section 335°/70° NE, background Cu 64 ppm, **highly anomalous As 179 ppm**, threshold **Au 48 ppb**
2493	0.60	0.30	graphitic schist, minor sericite schist, oxidized quartz veins 15%, possible apple green **maraposite**?, background Cu 66 ppm, **highly anomalous As 192 ppm, highly anomalous Au 251 ppb**
2494	0.60	0.30	highly oxidized layered graphitic schist, crenulated quartz veinlets, pyritic oxidized 15%, background Cu 86 ppm, **highly anomalous As 208 ppm, anomalous Au 778 ppb**
2495	0.76	0.30	fine platy sericite graphitic schist, less friable, fine drag folding, oxidized, pyritic quartz veins 15% of sample, background Cu 72 ppm, **anomalous As 100 ppm, anomalous Au 54 ppb**
2496	0.60	0.30	sericite schist interlayered with graphitic schist and light cream coloured tuffaceous siltstone10 cm – 15 cm thick fault displaced over 0.3 m, quartz veinlets 10%, background Cu 74 ppm, **threshold As 85 ppm, anomalous Au 141 ppb**

ROCK SAMPLES			
Panel Sampling on west bank of road at outlet of Lower Canyon between UTM Coordinates 573407 E / 6824667 N and 573423 E / 6824686 N			
Sample Number	**Width metre**	**Height metre**	**Description**
2497	0.60	0.30	crumbly brecciated sections interlayered with oxidized pyritic sericite schist with quartz veins 3 cm – 6 cm thick, flat fault cuts across schist banding – foliation at 300°/30° NW, 10 cm of gouge, above fault highly drag folded, 15% quartz veining, 70% - 80% sericite schist, background Cu 84 ppm, **anomalous As 102 ppm, anomalous Au 268 ppb**
2498	0.60	0.30	continuation of highly crumbled-brecciated zone in 2497, quartz-graphitic schist veinlets / shearing 185°/80° N, graphitic schist, background Cu 90 ppm (slightly elevation), background As 55 ppm, **highly anomalous Au 418 ppb**
2499	0.60	0.30	continuation of highly crumbled-brecciated zone as in 2497 and 2498, ±30% quartz fragments, lenses, veinlets from 10 cm to 15 cm oxidized, quartz 30% and graphitic schist 70% of sample – damp, water seepage, background Cu 87 ppm, background As 40 ppm, background Au 37 ppb
100	0.60	0.30	continuation of crumbled-breccia, 'gummy' gouge, crenulated quartz veining 30%, graphitic sericite schist 70%, background Cu 85 ppm, threshold anomalous As 86 ppm, background Au 44 ppb
102	0.60	0.30	continuation of crumbled-brecciated graphitic sericite schist zone 50% with 50% brecciated quartz vein fragments, quartz lens oxidized sections, general trend of schistosity and quartz veining, 260°/60°–80° NE, background Cu 49 ppm, **anomalous As 108 ppm**, subbackground Au 9 ppb
103	0.60	0.30	continuation of brecciated zone starting in 2497, background Cu 70 ppm, **anomalous As 136 ppm, anomalous Au 106 ppb**
104	0.60	0.30	continuation of brecciated zone, graphitic schist 60%, quartz veining 40%, crenulated drag folding, background Cu 73 ppm, **highly anomalous As 24 ppm, anomalous Au 103 ppb**
105	0.60	0.30	sericite graphite schist is more competent 80% with 20% irregular quartz veining associated with oxide layers, background Cu 68 ppm, **anomalous As 100 ppm**, background Au 42 ppb

ROCK SAMPLES			
Panel Sampling on west bank of road at outlet of Lower Canyon between UTM Coordinates 573407 E / 6824667 N and 573423 E / 6824686 N			
Sample Number	**Width metre**	**Height metre**	**Description**
106	0.60	0.30	more competent – 'tough' quartz rich siltstone (felsic dike) with graphitic layers, platy, oxidized sericite schist 65%, quartz veining 30% and 'siltstone'(?) 15%, background Cu 65 ppm, **anomalous As 166 ppm, anomalous Au 147 ppb**
107	0.60	0.30	competent quartz rich siltstone, graphitic schist layers – platy, oxidized quartz veining 30%, siltstone 10%, sericite schist 60%, on north side start of fissile graphitic schist, not as oxidized, background Cu 92 ppm, **anomalous As 169 ppm,** subbackground Au 3 ppb
108	0.65	0.30	graphitic sericite schist, less oxidation – pyrite quartz veinlets 10%, background Cu 82 ppm, **anomalous As 137 ppm,** background Au 38 ppb

Map No.	**Waypoint #**	**UTM Coordinates**		**Sample No. and Description**
		East	**North**	
22	276	573168	6824188	**2475 : (talus) light grey felsic sericite schist, orange oxidized foliation planes pyritic 5%, subthreshold Cu 76 ppm, threshold anomalous Au 42 ppb**
23	278	573009	6824111	**110**/Specimen 48: talus, oxidized, competent, fine grained grey-black brecciated, cut by irregular quartz veinlets, magnetite ++, anomalous Mo 7 ppm, background Cu 90 ppm, subbackground As 2 ppm, subbackground Au 2 ppb
24	297	573038	6824107	**111**/Specimen 50: float, highly oxidized quartz vein cutting andesite, pyrite 4$, background Cu 80 ppm, subbackground As 6 ppm, subbackground Au 1.8 ppb
25	299	573037	6824107	**112**/Specimen 51: 5% pyrite, minor chalcopyrite in competent chloritic groundmass, quartz cross fractures with 20% fine grained pyrite, minor calcite on fractures, strongly magnetic, **anomalous Cu 171 ppm**, subbackground As 0.6 ppm, Au 1.1 ppb

APPENDIX D

HAND SPECIMENS

HAND SPECIMENS				
Specimen #	**Waypoint #**	**UTM Coordinates**		**Description**
		East	**North**	
1	014	574056	6823881	dark grey groundmass with 20% fine medium grained, white-grey anhedral placioclase, quartz 5%, no pyrite in groundmass, yellow-orange coating on weathered surfaces, magnetite, Ca – **Diorite**
2	017	574202	6823791	light grey-green, moderately foliated, very irregular green-black chloritic shear planes 20%, fine grained feldspar–quartz 70%, diopside-apple green(?) pyrrhotite 1% - 2%, magnetite + (2% - 3%), Ca – 0, pyrite 1% **Foliated diorite**
3	018	574234	6823786	black, fine-grained, thin foliation planes, magnetite+++, pyrite fine grained 1%, Ca+++ **Argillaceous limestone**
4	030	573288	6824591	dark grey to black, distinct laminated appearance, thin grey carbonate 10% layers interlayered with thicker dark bands crystalline, fine grained, less than 1% fine pyrite, strongly magnetic++. Possible tuffaceous andesite with carbonate layers on **argillaceous limestone**
5	031	573277	6824568	dark grey, fine grained, can be scratched easily, 'spotted' on weathered surface, fine pyrite 1%, magnetite - 0, Ca++ thin carbonate layers. Impure **argillaceous limestone**
6	031	573277	6824568	dark green, chloritic shear planes groundmass fine grained crystalline calcite, quartz blebs, fine disseminated pyrite 1% - 2%, magnetite - 0 Impure brecciated ≥ **argillaceous limestone**
7	035	573265	6824528	dark greenish-grey chloritic foliations fine grained groundmass, minor carbonate on fractures, light grey fine grained plagioclase, pyrite fine grained 2%, magnetite - 0 **Chloritic foliated andesite**

HAND SPECIMENS				
Specimen	**Waypoint**	**UTM Coordinates**		**Description**
8	036	573272	6824485	light grey, aphanitic to fine grained plagioclase-quartz groundmass with medium grained anhedral plagioclase phenocrysts (25%) and fine hornblende lathes (10%), pyrite fine grained 2% - 3%, magnetite - 0, interstitial calcite and on fractures, low effervescence in 10% HCl. **Feldspar porphyry quartz monzonite**
9	036	573272	6824485	highly foliated light grey-green groundmass with dark green chloritic layers, light orange oxide colouration on weathered surface. 5% - 10% fine grained crystalline pyrite disseminated in the groundmass, magnetite - 0, HCl on fractures **Chlorite quartz feldspar sericite schist** (Sample No. 002451)
10	040	573243	6824355	light grey, fine grained hornblende laths (10%) in a grey groundmass with 40% plagioclase phenocryst in a fine grained to aphanitic grey feldspathic groundmass. Little or no fine grained pyrite, magnetite - 0, highly effervescent in dilute HCl? Intersticial calcite? hornblende-plagioclase porphyritic monzonite
11	043	573569	6824426	light grey-white amorphous to fine crystalline quartz vein with 5% fine to medium grained chalcopyrite less than 1%, magnetite - 0, HCl – **quartz vein** with chalcopyrite mineralization (Sample 002452)
12	056	573257	6824364	float: **brecciated quartz-calcite vein**, leached out sulfides, orange oxides 2% - 3% chalcopyrite 1% - 2% pyrite, magnetite - 0, Ca+++ (20%)
13	056	573257	6824634	float: light green foliation layered with quartz, orange-yellow oxidation on weathered surface, fine grained disseminated pyrite 10%, magnetite - 0, HCl – minor effervescence on fracture planes (Sample 002453) **quartz, sericite chlorite schist**
14	056	573267	6824369	float: dark black-green, foliated, fine grained, grey-calcite in dark groundmass, pyrite less than 1%, magnetite - 0, HCl+++ **foliated limey chlorite schist**

HAND SPECIMENS				
Specimen	**Waypoint**	**UTM Coordinates**		**Description**
15	059	573260	6824404	black, minor foliation, fine grained, soft fine disseminated pyrite 10%, magnetite +++ looks like andesite but highly effervescent, HCl +++, **limestone**
16	063	573184	6824321	thin light grey and greenish layers, fine disseminated pyrite 5% - 10%, magnetite - 0, minor HCl effervescence on fractures **quartz, sericite, chlorite schist** (andesite)
17	064	573202	6824322	talus-float: quartz vein 'flooding' in contact with dark green chlorite schist. 15% fine grained pyrite and lesser chalcopyrite associated with the quartz veining (Sample 00254) highly effervescent HCl +++, magnetite – 0, siderite/carbonite? **chlorite-caronatite** schist?
18	067	573181	6824297	talus-float: light 'apple' green fine grained aphanitic, highly effervescent, fine irregular quartz veinlets 5%, brecciated, irregular black 'coating' soft, not effervescent – manganese pyrite less than 1%, magnetite – 0 (Sample 00255)
19	069	573168	6824292	dark grey, fine grained, pyrite less than 1%, magnetite – 0, minor effervescence on fractures, fine grainted **diorite** – andesite
20	070	573161	6824286	light grey-orange, oxide stained on weathered surface, soft, carbonate rich – moderately effervescent HCl, fine grained pyrite 5% **sericite quartz carbonate schist** (Sample 002456)
21	072	573159	6824302	black, fine grained, foliated, graphite pyrite 3%, magnetite – 0, minor effervescent carbonate layers, **limey argillite**
22	084	572928	6823887	dark green, very thin discontinuous quartz veins layered in chloritic foliation with fine grained pyrite 2%, light orange oxides on weathered surface, magnetite – 0, minor effervescent carbonate layers, **chlorite schist**
23	096	572782	6823642	light green, sericite-chlorite layers with cream-grey carbonate layers that are highly effervescent, pyrite less than 1%, magnetite – 0, **sericite, chlorite carbonate schist**

HAND SPECIMENS				
Specimen	**Waypoint**	**UTM Coordinates**		**Description**
24	097	572788	6823637	float: green, foliate crenulated, **carbonate**, highly effervescent, pyrite 1%, magnetite - 0
25	100	572781	6823592	float: light grey, quartz 90% with some darker thin 'streaks', cut by irregular white carbonate veinlet. Clots of fine pyrite and disseminated pyrite, fine grained 5%, magnetic +++ possible pyrrhotite and magnetite with the pyrite clots **quartz carbonate breccias** (Sample 002457)
26	126	573258	6823530	dark green chloritic 'slickenside'/schist cross cut by light yellow thin irregular carbonate veinlets – highly effervescent, 3% - 5% fine grained pyrite, magnetite – 0, **chlorite carbonate schist**
27	145	573194	6824314	large angular 3 m x 2 m float, competent light grey groundmass with , irregular green patches, on weathered surface distinct foliation, discontinuous thin quartz blebs, fine disseminated pyrite 10%, magnetite – 0, irregular effervescence, **quartz carbonate chlorite schist** (Sample 002462)
28	153	573161	6824274	float: light yellowish-cream colour, very fine grained groundmass with 1% thin dark streaks, bedding/banding light and darker creams, fine disseminated pyrite 5%, magnetite – 0, highly effervescent HCl, **carbonate** (Sample 002463)
29	157	573134	6824250	float: foliated, dark black-green with patchy, brecciated appearing groundmass, highly effervescent in HCl, white calcite clots, pyrite fine grained 2% - 3%, magnetite +, **brecciated limestone**
30	158	573126	6824248	dark grey-black, fine grained crystalline moderately fluorescent, less than 1% pyrite, magnetite – 0, soft **limestone**
31	159	573114	6824244	dark grey-green, strongly foliated, thin interlayered quartz and chlorite with interstitial carbonate and carbonate on fractures, HCl ++, fine grained pyrite 1%, magnetite – 0, **chlorite quartz schist**

HAND SPECIMENS				
Specimen	**Waypoint**	**UTM Coordinates**		**Description**
32	202	573241	6824335	float-talus: dark grey-green, fine grained crystalline groundmass, soft, fine grained pyrite 5%, chalcopyrite ±1%, orange oxide fractures, magnetite – 0. Looks like a fine grained andesite but moderately effervescent, impure **limestone**
33	205	573241	6824342	dark greenish-black, fine to medium grained – granular groundmass, white and black granules, highly effervescent in HCl, groundmass is soft, dark green chloritic? 'slickenside' but not highly foliated, pyrite 0, magnetite – 0, impure **limestone**
34	210	573263	6834320	dark grey, massive, oxidized on fractures, fine grained, less than 1% quartz blebs, pyrite fine grained disseminated 5%, moderately effervescent in HCl, magnetite – 0, very similar to WP202/32, **limestone**
35	213	573219	6824314	dark grey-black, fine grained, moderate foliation, chlorite on shear surface, thin quartz veins (5%) paralleling foliation, 10% fine grained pyrite, magnetite +++, moderately effervescent in HCl, soft groundmass, chlorite foliation 5% **limestone** (Sample 002466)
36	215	573170	6824281	dark grey-green, chloritic foliation 5% - 10%, medium grained, granular groundmass, high effervescence in HCl, fine crystalline pyrite 5%, similar to Sample 33, magnetite – 0, impure **limestone**
37	218	573176	6824279	coarse white anhedral 'spots' and crystals in a black groundmass, soft, magnetite – 0, pyrite – 0, highly effervescent HCl +++, massive, no foliation **limestone**
38	230	573137	6824264	light green-grey, lustrous, fine grained irregular quartz patches, no pyrite, magnetite 0, moderately effervescent, **Skarn?** (Sample 002467) (WP 231 = 002468)
39	232	573132	6824262	float: highly oxidized vuggy quartz vein fine to medium grained crystalline pyrite 10%, magnetite – 0, **pyritic quartz vein** (Sample 002469

HAND SPECIMENS				
Specimen	**Waypoint**	**UTM Coordinates**		**Description**
40	233	573134	6824266	light grey, fine grained crystalline groundmass 3% - 4% fine disseminated pyrite, magnetite ++, highly effervescent HCl+++, **limestone**
41	237	573073	6824193	light grey-green, fine grained very finely foliated thin (less than 1 mm) discontinuous black (chlorite?) interlayered with quartz-feldspar, 'mod' soft, pyrite fine crystalline in one small clot less than 1%, magnetite – 0, HCL – 0, **quartz chlorite schist**
42	238	573060	6824173	medium grey, fine grained, light and dark crystalline groundmass, magnetite – 0, pyrite fine grained less than 1%, HCl – 0, fine grained **diorite**
43	245	573037	6824152	light orange fine grained groundmass, bright orange-red weathered surface 1% fine grained pyrite, chalcopyrite (?) magnetite – 0, HCl +++, **carbonate/siderite**
44	259	573084	6824202	dark grey-black, fine grained white and black calcite, fine grained pyrite less than 1%, magnetite – 0, HCl +++, **limestone**
45	272	573058	6824141	medium greyish-green, moderately foliated quartz interlayered with dark chlorite, groundmass is medium grained, soft pyrite less than 1%, magnetite – 0, HCL effervescence on fractures, **quartz chlorite schist**
46	274	573052	6824142	pale apple green, uniform amphorous, very hard interstitial carbonate, highly effervescent on some surfaces, on others no reaction, no pyrite, magnetite – 0, **chert fragment?**
47	276	573168	6824288	light to dark grey to black fine layered foliation, cross cut by thin irregular quartz veinlets and one up to 3 m – 5 m thick white quartz with 5% coarse crystalline pyrite, magnetite – 0, HCl +, interstitial lime, chloritic faces, **chlorite quartz schist** (Sample 002475)
48	278	573009	6824111	dark grey black groundmass, cut by irregular quartz veinlets – possible breccias weather surface orange iron oxides, fine grained pyrite 2$ - 4%, magnetite ++, brecciated **limestone**

HAND SPECIMENS				
Specimen	**Waypoint**	**UTM Coordinates**		**Description**
49	291	572940	6823937	dark grey-black with lighter greenish patches, fine pyrite less than 1%, minor carbonate on fractures, magnetite +++, **andesite** or diorite
50	297	573038	6824107	light orange-yellow, fine grained groundmass, breccias, general foliation but cut by numerous carbonate veinlets, 1 cm quartz vein with medium to fine grained pyrite 5%, irregular clots of quartz with pyrite but little or none in the groundmass, magnetite – 0, HCl +++, **iron carbonate**, **siderite**
51	299	573037	6824107	grey-green, fine grained groundmass quartz 60% with thin, discontinuous chlorite, groundmass is hard, fine grained disseminated through the groundmass 5% and cross fracture with 20% fine pyrite evenly disseminated across fracture, minor calcite on fractures HCl +, magnetite +++ disseminated throughout the specimen
52	334	572609	6823306	dark grey fine grained groundmass with 10 – 15 medium grained anhedral quartz/feldspar phenocrysts, some interstitial calcite and fine, thin calcite veinlets, pyrite less than 1%, magnetite – 0, **andesite**
53	334	572609	6823306	highly foliated dark grey-green groundmass, under 1% pyrite, crystalline calcite with ground massive, strong effervescence in HCl, magnetite – 0, **chloritic limey schist**
54	335	572595	6823296	dark grey groundmass, massive, fine white feldspars with dark fine grained mafics, no pyrite, HCl – 0, magnetite – 0, **andesite**

APPENDIX E

APPENDIX D

HAND SPECIMENS

HAND SPECIMENS				
Specimen #	Waypoint #	UTM Coordinates		Description
		East	North	
1	014	574056	6823881	dark grey groundmass with 20% fine medium grained, white-grey anhedral placioclase, quartz 5%, no pyrite in groundmass, yellow-orange coating on weathered surfaces, magnetite, Ca – **Diorite**
2	017	574202	6823791	light grey-green, moderately foliated, very irregular green-black chloritic shear planes 20%, fine grained feldspar–quartz 70%, diopside-apple green(?) pyrrhotite 1% - 2%, magnetite + (2% - 3%), Ca – 0, pyrite 1% **Foliated diorite**
3	018	574234	6823786	black, fine-grained, thin foliation planes, magnetite+++, pyrite fine grained 1%, Ca+++ **Argillaceous limestone**
4	030	573288	6824591	dark grey to black, distinct laminated appearance, thin grey carbonate 10% layers interlayered with thicker dark bands crystalline, fine grained, less than 1% fine pyrite, strongly magnetic++. Possible tuffaceous andesite with carbonate layers on **argillaceous limestone**
5	031	573277	6824568	dark grey, fine grained, can be scratched easily, 'spotted' on weathered surface, fine pyrite 1%, magnetite - 0, Ca++ thin carbonate layers. Impure **argillaceous limestone**
6	031	573277	6824568	dark green, chloritic shear planes groundmass fine grained crystalline calcite, quartz blebs, fine disseminated pyrite 1% - 2%, magnetite - 0 Impure brecciated ≥ **argillaceous limestone**
7	035	573265	6824528	dark greenish-grey chloritic foliations fine grained groundmass, minor carbonate on fractures, light grey fine grained plagioclase, pyrite fine grained 2%, magnetite - 0 **Chloritic foliated andesite**

HAND SPECIMENS				
Specimen	**Waypoint**	**UTM Coordinates**		**Description**
8	036	573272	6824485	light grey, aphanitic to fine grained plagioclase-quartz groundmass with medium grained anhedral plagioclase phenocrysts (25%) and fine hornblende lathes (10%), pyrite fine grained 2% - 3%, magnetite - 0, interstitial calcite and on fractures, low effervescence in 10% HCl. **Feldspar porphyry quartz monzonite**
9	036	573272	6824485	highly foliated light grey-green groundmass with dark green chloritic layers, light orange oxide colouration on weathered surface. 5% - 10% fine grained crystalline pyrite disseminated in the groundmass, magnetite - 0, HCl on fractures **Chlorite quartz feldspar sericite schist** (Sample No. 002451)
10	040	573243	6824355	light grey, fine grained hornblende laths (10%) in a grey groundmass with 40% plagioclase phenocryst in a fine grained to aphanitic grey feldspathic groundmass. Little or no fine grained pyrite, magnetite - 0, highly effervescent in dilute HCl? Intersticial calcite? hornblende-plagioclase porphyritic monzonite
11	043	573569	6824426	light grey-white amorphous to fine crystalline quartz vein with 5% fine to medium grained chalcopyrite less than 1%, magnetite - 0, HCl – **quartz vein** with chalcopyrite mineralization (Sample 002452)
12	056	573257	6824364	float: **brecciated quartz-calcite vein**, leached out sulfides, orange oxides 2% - 3% chalcopyrite 1% - 2% pyrite, magnetite - 0, Ca+++ (20%)
13	056	573257	6824634	float: light green foliation layered with quartz, orange-yellow oxidation on weathered surface, fine grained disseminated pyrite 10%, magnetite - 0, HCl – minor effervescence on fracture planes (Sample 002453) **quartz, sericite chlorite schist**
14	056	573267	6824369	float: dark black-green, foliated, fine grained, grey-calcite in dark groundmass, pyrite less than 1%, magnetite - 0, HCl+++ **foliated limey chlorite schist**

HAND SPECIMENS				
Specimen	**Waypoint**	**UTM Coordinates**		**Description**
15	059	573260	6824404	black, minor foliation, fine grained, soft fine disseminated pyrite 10%, magnetite +++ looks like andesite but highly effervescent, HCl +++, **limestone**
16	063	573184	6824321	thin light grey and greenish layers, fine disseminated pyrite 5% - 10%, magnetite - 0, minor HCl effervescence on fractures **quartz, sericite, chlorite schist** (andesite)
17	064	573202	6824322	talus-float: quartz vein 'flooding' in contact with dark green chlorite schist. 15% fine grained pyrite and lesser chalcopyrite associated with the quartz veining (Sample 00254) highly effervescent HCl +++, magnetite – 0, siderite/carbonite? **chlorite-caronatite** schist?
18	067	573181	6824297	talus-float: light 'apple' green fine grained aphanitic, highly effervescent, fine irregular quartz veinlets 5%, brecciated, irregular black 'coating' soft, not effervescent – manganese pyrite less than 1%, magnetite – 0 (Sample 00255)
19	069	573168	6824292	dark grey, fine grained, pyrite less than 1%, magnetite – 0, minor effervescence on fractures, fine grainted **diorite** – andesite
20	070	573161	6824286	light grey-orange, oxide stained on weathered surface, soft, carbonate rich – moderately effervescent HCl, fine grained pyrite 5% **sericite quartz carbonate schist** (Sample 002456)
21	072	573159	6824302	black, fine grained, foliated, graphite pyrite 3%, magnetite – 0, minor effervescent carbonate layers, **limey argillite**
22	084	572928	6823887	dark green, very thin discontinuous quartz veins layered in chloritic foliation with fine grained pyrite 2%, light orange oxides on weathered surface, magnetite – 0, minor effervescent carbonate layers, **chlorite schist**
23	096	572782	6823642	light green, sericite-chlorite layers with cream-grey carbonate layers that are highly effervescent, pyrite less than 1%, magnetite – 0, **sericite, chlorite carbonate schist**

HAND SPECIMENS				
Specimen	**Waypoint**	**UTM Coordinates**		**Description**
24	097	572788	6823637	float: green, foliate crenulated, **carbonate**, highly effervescent, pyrite 1%, magnetite - 0
25	100	572781	6823592	float: light grey, quartz 90% with some darker thin 'streaks', cut by irregular white carbonate veinlet. Clots of fine pyrite and disseminated pyrite, fine grained 5%, magnetic +++ possible pyrrhotite and magnetite with the pyrite clots **quartz carbonate breccias** (Sample 002457)
26	126	573258	6823530	dark green chloritic 'slickenside'/schist cross cut by light yellow thin irregular carbonate veinlets – highly effervescent, assoc____ 3% - 5% fine grained pyrite, magnetite – 0, **chlorite carbonate schist**
27	145	573194	6824314	large angular 3 m x 2 m float, competent light grey groundmass with , irregular green patches, on weathered surface distinct foliation, discontinuous thin quartz blebs, fine disseminated pyrite 10%, magnetite – 0, irregular effervescence, **quartz carbonate chlorite schist** (Sample 002462)
28	153	573161	6824274	float: light yellowish-cream colour, very fine grained groundmass with 1% thin dark streaks, bedding/banding light and darker creams, fine disseminated pyrite 5%, magnetite – 0, highly effervescent HCl, **carbonate** (Sample 002463)
29	157	573134	6824250	float: foliated, dark black-green with patchy, brecciated appearing groundmass, highly effervescent in HCl, white calcite clots, pyrite fine grained 2% - 3%, magnetite +, **brecciated limestone**
30	158	573126	6824248	dark grey-black, fine grained crystalline moderately fluorescent, less than 1% pyrite, magnetite – 0, soft **limestone**
31	159	573114	6824244	dark grey-green, strongly foliated, thin interlayered quartz and chlorite with interstitial carbonate and carbonate on fractures, HCl ++, fine grained pyrite 1%, magnetite – 0, **chlorite quartz schist**

HAND SPECIMENS				
Specimen	**Waypoint**	**UTM Coordinates**		**Description**
32	202	573241	6824335	float-talus: dark grey-green, fine grained crystalline groundmass, soft, fine grained pyrite 5%, chalcopyrite ±1%, orange oxide fractures, magnetite – 0. Looks like a fine grained andesite but moderately effervescent, impure **limestone**
33	205	573241	6824342	dark greenish-black, fine to medium grained – granular groundmass, white and black granules, highly effervescent in HCl, groundmass is soft, dark green chloritic? 'slickenside' but not highly foliated, pyrite 0, magnetite – 0, impure **limestone**
34	210	573263	6834320	dark grey, massive, oxidized on fractures, fine grained, less than 1% quartz blebs, pyrite fine grained disseminated 5%, moderately effervescent in HCl, magnetite – 0, very similar to WP202/32, **limestone**
35	213	573219	6824314	dark grey-black, fine grained, moderate foliation, chlorite on shear surface, thin quartz veins (5%) paralleling foliation, 10% fine grained pyrite, magnetite +++, moderately effervescent in HCl, soft groundmass, chlorite foliation 5% **limestone** (Sample 002466)
36	215	573170	6824281	dark grey-green, chloritic foliation 5% - 10%, medium grained, granular groundmass, high effervescence in HCl, fine crystalline pyrite 5%, similar to Sample 33, magnetite – 0, impure **limestone**
37	218	573176	6824279	coarse white anhedral 'spots' and crystals in a black groundmass, soft, magnetite – 0, pyrite – 0, highly effervescent HCl +++, massive, no foliation **limestone**
38	230	573137	6824264	light green-grey, lustrous, fine grained irregular quartz patches, no pyrite, magnetite 0, moderately effervescent, **Skarn?** (Sample 002467) (WP 231 = 002468)
39	232	573132	6824262	float: highly oxidized vuggy quartz vein fine to medium grained crystalline pyrite 10%, magnetite – 0, **pyritic quartz vein** (Sample 002469

HAND SPECIMENS				
Specimen	**Waypoint**	**UTM Coordinates**		**Description**
40	233	573134	6824266	light grey, fine grained crystalline groundmass 3% - 4% fine disseminated pyrite, magnetite ++, highly effervescent HCl+++, **limestone**
41	237	573073	6824193	light grey-green, fine grained very finely foliated thin (less than 1 mm) discontinuous black (chlorite?) interlayered with quartz-feldspar, 'mod' soft, pyrite fine crystalline in one small clot less than 1%, magnetite – 0, HCL – 0, **quartz chlorite schist**
42	238	573060	6824173	medium grey, fine grained, light and dark crystalline groundmass, magnetite – 0, pyrite fine grained less than 1%, HCl – 0, fine grained **diorite**
43	245	573037	6824152	light orange fine grained groundmass, bright orange-red weathered surface 1% fine grained pyrite, chalcopyrite (?) magnetite – 0, HCl +++, **carbonate/siderite**
44	259	573084	6824202	dark grey-black, fine grained white and black calcite, fine grained pyrite less than 1%, magnetite – 0, HCl +++, **limestone**
45	272	573058	6824141	medium greyish-green, moderately foliated quartz interlayered with dark chlorite, groundmass is medium grained, soft pyrite less than 1%, magnetite – 0, HCL effervescence on fractures, **quartz chlorite schist**
46	274	573052	6824142	pale apple green, uniform amphorous, very hard interstitial carbonate, highly effervescent on some surfaces, on others no reaction, no pyrite, magnetite – 0, **chert fragment?**
47	276	573168	6824288	light to dark grey to black fine layered foliation, cross cut by thin irregular quartz veinlets and one up to 3 m – 5 m thick white quartz with 5% coarse crystalline pyrite, magnetite – 0, HCl +, interstitial lime, chloritic faces, **chlorite quartz schist** (Sample 002475)
48	278	573009	6824111	dark grey black groundmass, cut by irregular quartz veinlets – possible breccias weather surface orange iron oxides, fine grained pyrite 2$ - 4%, magnetite ++, brecciated **limestone**

HAND SPECIMENS				
Specimen	**Waypoint**	**UTM Coordinates**		**Description**
49	291	572940	6823937	dark grey-black with lighter greenish patches, fine pyrite less than 1%, minor carbonate on fractures, magnetite +++, **andesite** or diorite
50	297	573038	6824107	light orange-yellow, fine grained groundmass, breccias, general foliation but cut by numerous carbonate veinlets, 1 cm quartz vein with medium to fine grained pyrite 5%, irregular clots of quartz with pyrite but little or none in the groundmass, magnetite – 0, HCl +++, **iron carbonate**, **siderite**
51	299	573037	6824107	grey-green, fine grained groundmass quartz 60% with thin, discontinuous chlorite, groundmass is hard, fine grained disseminated through the groundmass 5% and cross fracture with 20% fine pyrite evenly disseminated across fracture, minor calcite on fractures HCl +, magnetite +++ disseminated throughout the specimen
52	334	572609	6823306	dark grey fine grained groundmass with 10 – 15 medium grained anhedral quartz/feldspar phenocrysts, some interstitial calcite and fine, thin calcite veinlets, pyrite less than 1%, magnetite – 0, **andesite**
53	334	572609	6823306	highly foliated dark grey-green groundmass, under 1% pyrite, crystalline calcite with ground massive, strong effervescence in HCl, magnetite – 0, **chloritic limey schist**
54	335	572595	6823296	dark grey groundmass, massive, fine white feldspars with dark fine grained mafics, no pyrite, HCl – 0, magnetite – 0, **andesite**

APPENDIX E

Waypoint List

Waypoint List

Map Name : Blank Map
Map File :

Datum : NAD83

Waypoint File : C:\OziExplorer\Data\15-08 Kelli Cl Gr YT.wpt

2016-01-21 3:53:12 PM

Num	Name	Rock Specimen	Rock Sample	Zone	Easting	Northing	Alt(m)	Description
1	001			7V	573851	6824754	988	
2	002			7V	573855	6824755	987	
3	003			7V	573883	6824659	1002	
4	004			7V	573870	6824629	1008	
5	005			7V	573903	6824434	1045	
6	006			7V	573947	6824360	1061	
7	007			7V	573963	6824283	1079	
8	008			7V	573959	6824235	1096	
9	009			7V	573904	6824088	1166	
10	010			7V	573905	6824006	1204	
11	011			7V	573928	6823906	1232	
12	012			7V	574034	6823872	1224	
13	013			7V	574055	6823882	1209	
14	014	1		7V	574056	6823881	1203	
15	015			7V	574091	6823870	1215	
16	016			7V	574172	6823818	1220	
17	017	2		7V	574202	6823791	1212	
18	018	3		7V	574234	6823786	1213	
19	019			7V	574244	6823767	1218	
20	020			7V	574309	6823732	1202	
21	021			7V	574372	6823690	1208	
22	022			7V	574379	6823685	1200	
23	023			7V	574450	6823640	1202	
24	024			7V	574550	6823580	1198	
25	025			7V	574495	6824048	1071	
26	026			7V	573362	6824650	991	
27	027			7V	573308	6824630	1000	
28	028			7V	573303	6824625	1005	
29	029			7V	573306	6824618	1008	
30	030	4		7V	573288	6824591	1011	
31	031	5/6		7V	573277	6824568	1008	
32	032			7V	573280	6824564	1006	
33	033			7V	573275	6824560	1005	
34	034			7V	573273	6824542	1007	
35	035	7		7V	573265	6824528	1007	
36	036	8	1-2451	7V	573272	6824485	1013	
37	037			7V	573271	6824451	1016	
38	038			7V	573269	6824434	1016	
39	039			7V	573243	6824356	1027	
40	040	10		7V	573243	6824355	1027	
41	041			7V	573256	6824366	1024	
42	042			7V	573269	6824383	1023	
43	043	11	2-2452	7V	573269	6824426	1024	
44	044			7V	573258	6824440	1016	
45	045			7V	573273	6824509	1002	
46	046			7V	573275	6824499	1007	
47	047			7V	573275	6824550	1009	
48	048			7V	573279	6824443	1017	
49	049			7V	573275	6824430	1018	
50	050			7V	573279	6824418	1019	
51	051			7V	573278	6824408	1020	
52	052			7V	573275	6824399	1020	
53	053			7V	573274	6824393	1022	
54	054			7V	573269	6824381	1023	
55	055	12	3-2453	7V	573260	6824364	1026	
56	056	13/14	4-2454	7V	573257	6824354	1028	
57	057			7V	573234	6824360	1035	
58	058			7V	573235	6824359	1036	
59	059	15		7V	573260	6824404	1023	
60	060			7V	573201	6824318	1037	
61	061			7V	573186	6824307	1042	

Waypoint List continued .....

Num	Name	Rock Specimen	Rock Sample	Zone	Easting	Northing	Alt(m)	Soil Sample Description	Silt Samples
62	062			7V	573185	6824307	1042		
63	063	16		7V	573184	6824321	1047		
64	064	17	2455	7V	573202	6824322	1045		
65	065			7V	573181	6824300	1052		
66	066			7V	573177	6824295	1051		
67	067	18	254	7V	573181	6824297	1035		
68	068			7V	573171	6824297	1039		
69	069	19		7V	573168	6824292	1043		
70	070	20	256	7V	573161	6824286	1046		
71	071			7V	573162	6824298	1054		
72	072	21		7V	573159	6824301	1056		
73	073			7V	573160	6824302	1056		
74	074			7V	573152	6824285	1059		
75	075			7V	573152	6824289	1057		
76	076			7V	573161	6824286	1045		
77	077			7V	573171	6824294	1043		
78	078			7V	573180	6824300	1041		
79	079			7V	573147	6824275	1027		
80	080			7V	573148	6824271	1045		
81	081			7V	573113	6824239	1051		
82	082			7V	573115	6824241	1052		
83	083			7V	572931	6823944	1097		
84	084	22		7V	572928	6823887	1097		
85	085			7V	572926	6823868	1101		
86	086			7V	572882	6823851	1106		
87	087			7V	572882	6823853	1107		
88	088			7V	572848	6823804	1112	1	
89	089			7V	572827	6823798	1120	2	
90	090			7V	572787	6823742	1135		
91	091			7V	572790	6823726	1132	3	1
92	092			7V	572784	6823670	1131		
93	093			7V	572782	6823670	1130		2
94	094			7V	572798	6823646	1135		
95	095			7V	572789	6823648	1133		3
96	096	23		7V	572782	6823642	1134		4
97	097	24		7V	572788	6823637	1135		
98	098			7V	572788	6823607	1135		
99	099			7V	572775	6823609	1137		
100	100	25	2457	7V	572781	6823592	1136		
101	101			7V	572779	6823592	1136		
102	102			7V	572772	6823597	1138		
103	103			7V	572775	6823595	1138		
104	104			7V	572760	6823566	1141		
105	105			7V	572761	6823557	1141		
106	106			7V	572748	6823553	1145		
107	107			7V	572735	6823536	1150		
108	108			7V	572699	6823499	1160		
109	109			7V	572683	6823510	1170		
110	110			7V	572672	6823510	1174	4	
111	111			7V	572655	6823550	1187		
112	112			7V	572631	6823631	1190		5
113	113			7V	572632	6823634	1189		6
114	114			7V	572628	6823674	1193		7
115	115			7V	572626	6823684	1192		
116	116			7V	572627	6823687	1193		8
117	117			7V	572628	6823694	1193		9
118	118			7V	572681	6823756	1180		10
119	119			7V	572735	6823799	1175		11
120	120			7V	572796	6823889	1159		
121	121			7V	572800	6823926	1140		12
122	122			7V	572905	6823870	995		
123	123			7V	573317	6824636	1012		
124	124			7V	573328	6824648	1008		
125	125		2458	7V	573260	6824531	1027		
126	126	26	2459	7V	573258	6824530	1029		
127	127			7V	573251	6824528	1031		
128	128			7V	573253	6824481	1032		
129	129			7V	573252	6824478	1035		
130	130			7V	573190	6824302	1046		
131	131			7V	573189	6824303	1046		
132	132			7V	573189	6824303	1046		
133	133			7V	573212	6824295	1107		

Waypoint List continued .....

Num	Name	Rock Specimen	Rock Sample	Zone	Easting	Northing	Alt(m)	Soil Sample Description	Silt Sample
134	134			7V	573183	6824334	1145	5	
135	135			7V	573189	6824323	1138	6	
136	136			7V	573191	6824320	1132		
137	137			7V	573199	6824311	1133	7	
138	138			7V	573179	6824309	1135		
139	139			7V	573214	6824330	1085		
140	140			7V	573218	6824336	1077		
141	141			7V	573218	6824335	1077		
142	142		2460	7V	573212	6824341	1072	8	
143	143		2461	7V	573191	6824313	1058		
144	144			7V	573199	6824311	1051		
145	145	27	2462	7V	573194	6824314	1049		
146	146			7V	573187	6824298	1047		
147	147			7V	573180	6824289	1045		
148	148			7V	573174	6824281	1045		
149	149			7V	573178	6824267	1046		13
150	150			7V	573178	6824262	1050		14
151	151			7V	573161	6824272	1054		
152	152			7V	573162	6824273	1054		
153	153	28	2463	7V	573161	6824274	1055		
154	154			7V	573154	6824265	1059		
155	155			7V	573143	6824263	1063		
156	156			7V	573147	6824257	1058		
157	157	29		7V	573134	6824250	1055		
158	158	30		7V	573126	6824248	1055		
159	159	31		7V	573114	6824244	1057	9	
160	160			7V	573099	6824234	1060		
161	161			7V	573095	6824228	1062	10	
162	162			7V	573097	6824225	1063		
163	163			7V	572844	6823786	1164		
164	164			7V	572841	6823789	1164		
165	165			7V	572840	6823788	1128		
166	166			7V	572808	6823726	1108		
167	167			7V	572790	6823703	1110		
168	168			7V	572795	6823671	1114		
169	169			7V	572797	6823646	1116		
170	170			7V	572785	6823635	1123		
171	171			7V	572780	6823628	1128		
172	172			7V	572756	6823561	1136		
173	173			7V	572757	6823569	1136		
174	174			7V	572734	6823517	1143		
175	175			7V	572723	6823504	1144		
176	176			7V	572709	6823461	1145		
177	177			7V	572705	6823467	1145		
178	178			7V	572669	6823465	1148		
179	179			7V	572647	6823432	1152		
180	180			7V	572619	6823372	1160		
181	181			7V	572592	6823325	1167		
182	182			7V	572552	6823270	1176		
183	183			7V	572500	6823205	1187		
184	184			7V	572481	6823180	1191		
185	185			7V	572477	6823181	1189		
186	186			7V	572453	6823117	1198		
187	187			7V	572458	6823058	1203		
188	188			7V	572435	6823021	1208		
189	189			7V	572394	6823001	1213		
190	190			7V	572380	6822973	1216		
191	191			7V	572346	6822996	1232		
192	192			7V	572329	6823012	1242		
193	193			7V	572333	6823012	1242		
194	194			7V	572329	6823008	1242		
195	195			7V	573215	6824327	1027		
196	196			7V	573197	6824315	1030		
197	197			7V	573220	6824330	1026		
198	198			7V	573256	6824373	1020		
199	199			7V	573241	6824357	1023		
200	200			7V	573219	6824353	1034	15	15
201	201			7V	573221	6824331	1030	11	
202	202	32	2464	7V	573241	6824335	1031		
203	203			7V	573247	6824333	1030		
204	204			7V	573240	6824334	1029		
205	205	33		7V	573241	6824342	1035		

Waypoint List continued .....

Num	Name	Rock Specimen	Rock Sample	Zone	Easting	Northing	Alt(m)	Geochemical Soil Sample	Geochemical Silt Sample
206	206			7V	573236	6824338	1036	12	
207	207			7V	573235	6824334	1039	15	
208	208			7V	573207	6824326	1039		
209	209			7V	573248	6824325	1037		
210	210	34		7V	573263	6824320	1047	550 13	
211	211			7V	573253	6824324	1045		
212	212			7V	573224	6824320	1033		
213	213	35	2466	7V	573219	6824314	1038	14	
214	214			7V	573200	6824306	1063		
215	215	36		7V	573170	6824281	1058		
216	216			7V	573178	6824282	1059		
217	217			7V	573170	6824269	1059		
218	218	37		7V	573176	6824279	1061		
219	219			7V	573125	6824271	1074	16	
220	220			7V	573133	6824275	1073	17, 18	
221	221			7V	573127	6824260	1059		
222	222			7V	573073	6824208	1066		
223	223			7V	573067	6824202	1064	19	
224	224			7V	573370	6824643	979		
225	225			7V	573261	6824557	1005	20	
226	226			7V	573260	6824559	1022	21	
227	227			7V	573233	6824532	1039		
228	228			7V	573235	6824535	1036	22	
229	229			7V	573132	6824261	1050		
230	230	38	2467	7V	573137	6824264	1051		
231	231		2468	7V	573138	6824263	1051		
232	232	39	2469	7V	573132	6824262	1052		
233	233	40	2470	7V	573134	6824266	1052		
234	234			7V	573135	6824258	1051		
235	235			7V	573113	6824237	1054		
236	236			7V	573078	6824200	1060		
237	237	41		7V	573073	6824193	1068		
238	238	42		7V	573060	6824173	1066		
239	239			7V	573066	6824190	1071	23	
240	240			7V	573068	6824189	1069		
241	241			7V	573059	6824178	1072		
242	242			7V	573061	6824178	1075		
243	243			7V	573052	6824168	1075		
244	244			7V	573037	6824149	1079		
245	245	43		7V	573037	6824152	1075	24	
246	246			7V	573040	6824152	1069		
247	247			7V	573032	6824143	1063		
248	248			7V	573032	6824141	1059		
249	249			7V	573017	6824143	1066	25	
250	250			7V	573014	6824137	1070		
251	251			7V	573023	6824134	1064		
252	252			7V	573383	6824633	982		
253	253			7V	573383	6824634	982		
254	254			7V	573393	6824642	990	26	
255	255			7V	573400	6824674	1018	27	
256	256			7V	573388	6824624	1005	28	
257	257			7V	573135	6824259	1050		
258	258			7V	573086	6824207	1058		
259	259	44		7V	573084	6824202	1063		
260	260			7V	573082	6824207	1064		
261	261			7V	573077	6824204	1067		
262	262			7V	573076	6824198	1068		
263	263			7V	573070	6824176	1063		
264	264			7V	573068	6824175	1063		
265	265			7V	573071	6824172	1061		
266	266			7V	573070	6824170	1061		15
267	267			7V	573067	6824159	1064		16
268	268			7V	573066	6824154	1067		
269	269			7V	573062	6824155	1064		
270	270			7V	573061	6824156	1063		
271	271			7V	573066	6824150	1064		
272	272			7V	573058	6824141	1066		17
273	273			7V	573056	6824139	1066		
274	274			7V	573052	6824142	1066		
275	275	46		7V	573166	6824288	1041		
276	276	47	2475	7V	573168	6824288	1039		
277	277			7V	573018	6824109	1068		

Waypoint List continued .....

Num	Name	Rock Specimen	Rock Sample	Zone	Easting	Northing	Alt(m)	Soil Sample Description	Silt Sample
278	278	48	23	7V	573009	6824111	1091		
279	279			7V	573002	6824123	1087		
280	280			7V	572997	6824118	1089		
281	281			7V	572999	6824128	1083		18
282	282			7V	573000	6824132	1083		
283	283			7V	573016	6824074	1112		
284	284			7V	573005	6824090	1081		
285	285			7V	572995	6824080	1081		
286	286			7V	573006	6824100	1082		
287	287			7V	573001	6824055	1085		
288	288			7V	572972	6823990	1089		
289	289			7V	572971	6823986	1089		
290	290			7V	572950	6823953	1092		
291	291	49		7V	572940	6823937	1097	29	
292	292			7V	572934	6823936	1098		
293	293			7V	572937	6823910	1097		
294	294			7V	572938	6823912	1096		
295	295			7V	572939	6823917	1096		
296	296			7V	573037	6824128	1061		
297	297	50	111	7V	573038	6824107	1040		
298	298			7V	573032	6824115	1052		
299	299	51	112	7V	573037	6824107	1056		
300	300			7V	572881	6823817	1094		
301	301			7V	572858	6823802	1105		
302	302			7V	572844	6823786	1107		
303	303			7V	572842	6823780	1109		
304	304			7V	572844	6823769	1111		
305	305			7V	572845	6823751	1113		
306	306			7V	572822	6823730	1116		
307	307			7V	572799	6823717	1117		
308	308			7V	572793	6823713	1118		
309	309			7V	572790	6823694	1120		
310	310			7V	572795	6823675	1122		
311	311			7V	572802	6823662	1123		
312	312			7V	572801	6823644	1125		
313	313			7V	572806	6823633	1127		
314	314			7V	572797	6823591	1136		
315	315			7V	572794	6823586	1139		
316	316			7V	572795	6823589	1139		21
317	317			7V	572777	6823567	1143		
318	318			7V	572771	6823574	1141		
319	319			7V	572752	6823543	1144		
320	320			7V	572756	6823536	1145		
321	321			7V	572792	6823520	1149		
322	322			7V	572780	6823524	1145		
323	323			7V	572772	6823513	1147		22
324	324			7V	572776	6823505	1147		23
325	325			7V	572739	6823504	1141		
326	326			7V	572701	6823481	1144		
327	327			7V	572689	6823466	1145		
328	328			7V	572656	6823409	1153		
329	329			7V	572658	6823400	1155		
330	330			7V	572635	6823403	1153		
331	331			7V	572627	6823366	1158		
332	332	39	002464	7V	572634	6823359	1159		
333	333			7V	572605	6823315	1166		
334	334	52, 53		7V	572609	6823306	1167		
335	335	54		7V	572595	6823296	1167		
336	336			7V	572584	6823282	1170		
337	337			7V	573417	6824658	930		
338	338			7V	573421	6824667	931		
339	339			7V	573426	6824686	932		
340	340			7V	573711	6824975	959		
341	341			7V	573702	6824940	963		
342	342			7V	573701	6824938	963		
343	343			7V	573690	6824897	964		
344	344			7V	573689	6824896	964		
345	345			7V	573722	6824894	965		
346	346			7V	573768	6824902	966		
347	347			7V	573868	6824944	954		
348	348			7V	573900	6824968	949		
349	349			7V	573936	6824986	941		

Waypoint List continued .....

Num	Name	Zone	Easting	Northing	Alt(m)	Description	Soil Samples	Silt Samples
350	350	7V	573944	6824995	935			25
351	351	7V	573966	6824948	942			
352	352	7V	574017	6824793	965			
353	353	7V	574016	6824789	965			
354	354	7V	574041	6824782	973			
355	355	7V	574009	6824730	981			
356	356	7V	574007	6824728	983			
357	357	7V	574028	6824710	981			
358	358	7V	574076	6824691	985			
359	359	7V	574095	6824685	982			
360	360	7V	574188	6824656	979			
361	361	7V	574192	6824687	972			
362	362	7V	574244	6824682	971			
363	363	7V	574278	6824656	973			
364	364	7V	574249	6824615	981			
365	365	7V	573907	6824870	965	30		
366	366	7V	573707	6825022	947			
367	367	7V	574632	6824873	880			
368	368	7V	574629	6824874	920			
369	369	7V	574647	6824838	940			
370	370	7V	574671	6824691	959			
371	371	7V	574712	6824453	970			
372	372	7V	574683	6824357	985			
373	373	7V	574674	6824305	993			
374	374	7V	574668	6824266	1000			
375	375	7V	574657	6824211	1012			
376	376	7V	574637	6824214	1013			
377	377	7V	574630	6824317	998			
378	002	11U	308677	5651600				

Map Feature Waypoints

APPENDIX F

Cost of 2015 Exploration Program

Cost of Geochemical Sampling and Geological Mapping Program
carried out between July 20 and August 12, 2015
Kelli-Reed Claim Group
Whitehorse Mining Division NTS 115 G12
YMEP No. 15-004

1.	**Daily Living Expenses**			
	Gordon Gutrath	24 days		
	Fred Erler	16 days		
	Lorne Smith	7 days		
	Total mandays @ $100/day	47 days	$	4,700.00
2.	**Mobilization and Demobilization**			
	Whitehorse to turnoff Hwy 1 and return			
	Ford 250 and trailer/supplies and ATV haul;			
	GMC 250 4 x 4 and trailer to haul Argo to Hwy 1 and expediting			1,624.50
3.	**Sample Analysis - Bureau Veritas**			
	Rock sample analysis	2,240.14		
	Soil sample analysis	604.80		
	Silt sample analysis	821.73		
				3,666.67
4.	**Equipment Rentals**			
	1 8 wheel Argo at $200/round trip from Dennis Dickson, Kluane First Nation, Burwash	700.00		
	2 ATV's @ 500 cc engines (Atled Exploration Management Ltd.)			
	1 - 23 days @ $40/day	920		
	1 - 13 days @ $40/day	520		
				2,140.00
5.	**Contractors and brief summary of qualifications**			
	Atled Exploration Management Ltd.			
	G. Gutrath Geologist, P.Eng. (Engineer's Certificate attached)			
	24 days @ $500/day	12,000		
	Fred Erler, Assistant - panel sampler and bagging, mountain climber, first-aid certificate, member of B.C. Search and Rescue			
	16 days @ $200/day	3,200		
	Lorne Smith, Argo-D8 operator, Journeyman master mechanic, D8 operator, detailed knowledge of Kelli Claims as he worked with the late Larry Tremblay, manager and claim owner. Very good relations with local First Nations.			
	7 days @ $300/day	2,100		
				17,300.00

Kelli-Reed Claim Group
Whitehorse Mining Division NTS 115 G12
YMEP No. 15-004

6. Line Cutting

No line cutting

7. Geochemical Survey

GPS survey control cost in #5

8. Geophysical Survey

Aurora Geophysics, Dr. Dave Hildes
Review 2015 aeromagnetic survey (no charge)

9. Trenching

D8 bulldozer

16 hrs @ $200/hour		3,200.00

10. Drilling

No drilling

11. Reclamation

No reclamation (trenched material from the rock face along the edge of the road was used to rebuild the road)

12. Maps and Report

Underhill Geomatics, waypoint plots	1,234.80	
Report @ 10%	3,530.00	
		4,764.80
Total		37,395.97

APPENDIX G

List of Claims, Expiry Dates and Owners

Yukon
Energy, Mines and Resources

Claim Status Report

17 February 2016

	Claim Name and Nbr.	Grant No.	Expiry Date	Registered Owner	% Owned	NTS #'s	Grouping	Permit
R	ANN 1 - 4	YB35476 - YB35479	2025/01/28	Fred Erler	50.00	115G12	HW07579	
				Kelli J. Tremblay	50.00			
R	BUY 1 - 12	YA96221 - YA96232	2022/01/28	Kelli J. Tremblay	33.33	115G12	HW07579	
				Sandra Erler	33.33			
				Kristy Roberts	33.34			
R	FRED 1 - 2	YF46657 - YF46658	2021/07/28	Fred Erler	100.00	115G12	HW07579	
R	FRED 3 - 5	YF46654 - YF46656	2020/08/29	Fred Erler	100.00	115G12	HW07579	
R	GRACE 1 - 7	YA97463 - YA97469	2022/01/28	Kluane Martin	50.00	115G12	HW07579	
				Louise Bouvier	50.00			
R	JO 1	YB24070	2022/01/28	Sulo Poystila	25.00	115G12	HW07579	
				Kelli J. Tremblay	37.00			
				Louise Bouvier	19.00			
				Kluane Martin	19.00			
R	KELLI 1	YA93845	2025/01/28	Sulo Poystila	25.00	115G12	HW07579	
				Kelli J. Tremblay	37.00			
				Kluane Martin	19.00			
				Louise Bouvier	19.00			
R	KELLI 3 - 8	YA93847 - YA93852	2025/01/28	Sulo Poystila	25.00	115G12	HW07579	
				Kelli J. Tremblay	37.00			
				Kluane Martin	19.00			
				Louise Bouvier	19.00			
R	KELLI 9 - 18	YA95337 - YA95346	2026/01/28	Sulo Poystila	25.00	115G12	HW07579	
				Kelli J. Tremblay	37.00			
				Louise Bouvier	19.00			
				Kluane Martin	19.00			
R	KELLI 19 - 26	YA96352 - YA96359	2022/01/28	Sulo Poystila	25.00	115G12	HW07579	
				Kelli J. Tremblay	37.00			
				Louise Bouvier	19.00			
				Kluane Martin	19.00			

Total claims selected : 75

Left column indicator legend:
- R - Indicates the claim is on one or more pending renewal(s).
- P - Indicates the claim is pending.

Right column indicator legend:
- L - Indicates the Quartz Lease.
- F - Indicates Full Quartz fraction (25+ acres)
- P - Indicates Partial Quartz fraction (<25 acres)
- D - Indicates Placer Discovery
- C - Indicates Placer Codiscovery
- B - Indicates Placer Fraction

Yukon
Energy, Mines and Resources

Claim Status Report

17 February 2016

	Claim Name and Nbr.	Grant No.	Expiry Date	Registered Owner	% Owned	NTS #'s	Grouping	Permit
R	KRISTY 1 - 2	YB26868 - YB26869	2025/01/28	Sulo Poystila	25.00	115G12	HW07579	
				Kelli J. Tremblay	37.00			
				Louise Bouvier	19.00			
				Kluane Martin	19.00			
R	KRISTY 3	YB35800	2025/01/28	Sulo Poystila	25.00	115G12	HW07579	
				Kelli J. Tremblay	37.00			
				Louise Bouvier	19.00			
				Kluane Martin	19.00			
R	KRISTY 5 - 14	YB35801 - YB35810	2025/01/28	Sulo Poystila	25.00	115G12	HW07579	
				Kelli J. Tremblay	37.00			
				Louise Bouvier	19.00			
				Kluane Martin	19.00			
R	RENO 1 - 2	YA97470 - YA97471	2022/01/28	Sulo Poystila	25.00	115G12	HW07579	
				Kelli J. Tremblay	37.00			
				Louise Bouvier	19.00			
				Kluane Martin	19.00			
R	ROSE 1 - 4	YA95976 - YA95979	2022/01/28	Sulo Poystila	25.00	115G12	HW07579	
				Kelli J. Tremblay	37.00			
				Louise Bouvier	19.00			
				Kluane Martin	19.00			
R	ROSE 5	YA95980	2025/01/28	Sulo Poystila	25.00	115G12	HW07579	
				Kelli J. Tremblay	37.00			
				Louise Bouvier	19.00			
				Kluane Martin	19.00			

Total claims selected : 75

Left column indicator legend:

R - Indicates the claim is on one or more pending renewal(s).

P - Indicates the claim is pending.

Right column indicator legend:

L - Indicates the Quartz Lease.

F - Indicates Full Quartz fraction (25+ acres)

P - Indicates Partial Quartz fraction (<25 acres)

D - Indicates Placer Discovery

C - Indicates Placer Codiscovery

B - Indicates Placer Fraction

Yukon
Energy, Mines and Resources

Claim Status Report

17 February 2016

	Claim Name and Nbr.	Grant No.	Expiry Date	Registered Owner	% Owned	NTS #'s	Grouping	Permit
R	ROSE 6	YA95981	2022/01/28	Sulo Poystila	25.00	115G12	HW07579	
				Kelli J. Tremblay	37.00			
				Louise Bouvier	19.00			
				Kluane Martin	19.00			

Criteria(s) used for search:

CLAIM DISTRICT: 1000004 CLAIM STATUS: ACTIVE & PENDING DOCUMENT NUMBER: HW07579 REGULATION TYPE: QUARTZ

Total claims selected : 75

Left column indicator legend:

R - Indicates the claim is on one or more pending renewal(s).
P - Indicates the claim is pending.

Right column indicator legend:

L - Indicates the Quartz Lease.
F - Indicates Full Quartz fraction (25+ acres)
P - Indicates Partial Quartz fraction (<25 acres)
D - Indicates Placer Discovery
C - Indicates Placer Codiscovery
B - Indicates Placer Fraction

APPENDIX H

Teck Exploration Sample Results, 2000

15-Sep-00

ECO-TECH LABORATORIES LTD.
10041 Dallas Drive
KAMLOOPS, B.C.
V2C 6T4

Phone 250-573-5700
Fax 250-573-4557

ICP CERTIFICATE OF ANALYSIS AK 2000-278

TECK EXPLORATION LTD.
#350-272 VICTORIA STREET
KAMLOOPS, B.C.
V2C 2A2

ATTENTION: Jean Pautler

No of samples received 63
Sample Type Rock
Project #: 1389-08
Shipment #: None Given
Samples submitted by J Pautler

Larry Tremblay

calc : calcareous
gfic : graphitic
ser : sericite
qtz : quartz
porph : porphyry
Lst : limestone
gst : greenstone (metavolcan

Values in ppm unless otherwise reported

Lower Canyon

Et #.	Tag #	Au(ppb)	Ag	Al %	As	Ba	Bi	Ca %	Cd	Co	Cr	Cu	Fe %	La	Mg %	Mn	Mo	Na %	Ni	P	Pb	Sb	Sn	Sr	Tl %	U	V	W	Y	Zn	
17	13992	145	<0.2	0.91	235	115	<5	3.79	<1	11	86	50	3.05	<10	0.81	545	4	0.02	25	970	6	<5	<20	181	<0.01	<10	23	<10	2	83	- 45cm chip - sericite schist)
18	13993	10	<0.2	0.32	35	40	<5	>10	<1	4	49	9	0.97	<10	1.44	471	<1	0.01	9	460	<2	20	<20	823	<0.01	<10	11	<10	12	32	- 75cm - marble
19	13994	340	<0.2	0.55	35	115	<5	3.34	<1	8	100	41	2.25	<10	0.52	418	4	0.02	18	310	<2	<5	<20	210	<0.01	<10	15	<10	3	44	- 1.5m - qtz/ser schist)
20	13995	400	<0.2	2.19	50	90	<5	3.98	<1	20	73	61	4.38	<10	1.49	809	4	0.02	22	1310	6	<5	<20	367	<0.01	<10	40	<10	<1	87	- 40cm - lim. ser. schist)
21	13996	150	<0.2	2.28	105	120	<5	2.21	<1	23	69	99	5.33	<10	1.52	1079	4	0.02	37	1160	8	<5	<20	115	<0.01	<10	51	<10	<1	107	- 1.5m - gfic schist
22	13997	210	<0.2	2.14	45	80	<5	2.97	<1	18	74	67	4.50	<10	1.39	976	4	0.02	23	1360	10	<5	<20	227	<0.01	<10	42	<10	<1	92	- 3.5m - ser/gfic schist
23	13998	170	<0.2	1.72	130	170	5	2.65	<1	20	74	69	4.74	<10	1.16	1130	3	0.02	30	840	10	<5	<20	104	<0.01	<10	39	<10	<1	92	- 40cm - gfic schist
24	13999	105	<0.2	0.74	70	255	<5	0.50	2	10	193	90	3.38	<10	0.42	318	11	<0.01	43	520	18	<5	<20	31	<0.01	<10	34	<10	<1	279	- 40cm - qtz, gfic schist
25	14000	80	<0.2	1.80	155	150	<5	2.16	<1	19	82	67	4.81	<10	1.16	1087	5	0.01	31	1040	12	<5	<20	96	<0.01	<10	38	<10	<1	112	- 1.5m - gfic/qtz-ser schist
	15-Sep-00																														

Teck Sample # TR01-6

2gm Au

0.4m

0.5m

.7 / 8m

ICP CERTIFICATE OF ANALYSIS AK 2000-278 **TECK EXPLORATION LTD.**

Et #.	Tag #	Au(ppb)	Ag	Al %	As	Ba	Bi	Ca %	Cd	Co	Cr	Cu	Fe %	La	Mg %	Mn	Mo	Na %	Ni	P	Pb	Sb	Sn	Sr	Tl %	U	V	W	Y	Zn	
31	LT-1	5	<0.2	0.59	<5	50	<5	>10	<1	3	50	16	1.26	<10	0.87	370	3	0.02	11	840	2	15	<20	1414	<0.01	<10	19	<10	7	42	1.0m qtz porphyry dyke
32	LT-2	20	<0.2	0.60	5	45	<5	>10	<1	5	66	19	1.41	10	1.05	409	6	0.02	14	880	<2	10	<20	1439	<0.01	<10	22	<10	9	54	0.5m
33	LT-3	20	<0.2	0.28	100	105	<5	7.49	<1	21	135	69	3.48	<10	3.77	809	1	0.02	85	450	4	15	<20	687	<0.01	<10	57	<10	<1	46	grab - limestone
34	LT-4	85	<0.2	1.30	10	80	<5	7.66	<1	8	74	57	2.41	<10	0.96	623	1	0.02	8	1410	4	10	<20	396	0.05	<10	23	<10	1	77	grab - with qtz py
35	LT-5	850	<0.2	1.37	190	120	<5	3.37	<1	15	51	68	4.19	<10	0.99	1155	3	0.02	20	1620	6	<5	<20	157	<0.01	<10	29	<10	<1	84	0.2m - qtz-ser, gfic schist, py
36	LT-6	240	0.2	2.02	160	95	<5	2.15	<1	20	68	92	4.77	<10	1.29	1103	4	0.02	30	1080	10	<5	<20	115	<0.01	<10	41	<10	<1	95	2.5m gfic schist, py
37	LT-7	650	0.4	1.51	70	80	<5	2.70	<1	21	64	94	4.63	<10	1.18	1303	4	0.02	29	810	12	<5	<20	116	<0.01	<10	37	<10	<1	88	1.75m gfic schist, qtz, py
38	LT-8	415	0.4	1.41	20	70	<5	2.55	<1	20	66	91	4.80	<10	1.41	1071	4	0.01	26	1010	8	<5	<20	122	<0.01	<10	34	<10	<1	110	.4m gfic " fault
39	LT-9	240	0.2	1.04	105	85	<5	2.62	2	16	88	90	4.39	<10	1.18	10[illegible]	8	0.01	29	1160	16	<5	<20	141	<0.01	<10	24	<10	1	154	1.5m ser/gfic schist, fau
40	LT-10	>1000 2.14	1.7	1.36	150	90	<5	2.50	<1	20	85	79	4.79	<10	1.16	1069	5	0.01	28	1040	16	<5	<20	125	<0.01	<10	28	<10	<1	125	1.6m chip gfic schist, qtz
41	LT-11	35	<0.2	0.34	20	95	<5	6.81	<1	19	68	65	4.43	<10	2.23	876	5	0.03	34	830	4	15	<20	464	<0.01	<10	25	<10	3	76	

Et #.	Tag #	Au(ppb)	Ag	Al %	As	Ba	Bi	Ca %	Cd	Co	Cr	Cu	Fe %	La	Mg %	Mn	Mo	Na %	Ni	P	Pb	Sb	Sn	Sr	Tl %	U	V	W	Y	Zn	
42	LT-12	10	<0.2	0.26	<5	<5	<5	>10	<1	4	82	15	1.23	<10	0.69	1721	1	0.01	3	240	<2	15	<20	700	<0.01	<10	14	<10	21	20	float - qtz, gfic schist
above Falls 43	LT-13	10	<0.2	2.37	<5	65	<5	2.64	<1	17	78	57	1.97	<10	1.13	367	13	0.11	23	880	8	10	<20	112	0.04	<10	74	<10	3	40	Lst, ser., py, grab
44	LT-14	5	<0.2	0.30	<5	10	<5	>10	1	35	18	88	1.45	<10	0.40	1101	<1	<0.01	9	910	<2	10	<20	374	<0.01	<10	11	<10	10	18	grab, qtz, ghost py, po,
45	LT-15	>1000 6.65	22.8	0.31	<5	20	<5	4.91	<1	20	98	381	2.69	<10	0.42	765	4	0.01	10	60	<2	<5	<20	50	<0.01	<10	17	<10	<1	36	grab, - qtz, calc vost, py, tr
46	LT-16	30	<0.2	0.07	<5	<5	<5	0.48	<1	2	207	9	0.46	<10	0.12	98	6	<0.01	6	10	<2	<5	<20	9	<0.01	<10	2	<10	<1	8	- 3m qtz carb vein
hidden 47	LT-17	30	<0.2	2.41	<5	40	10	5.79	<1	40	54	38	7.47	<10	2.36	1109	5	0.02	22	1180	8	<5	<20	151	<0.01	<10	120	<10	<1	77	- 4m above vein, py
zone 48	LT-18	150	0.8	1.12	<5	30	<5	5.47	<1	25	83	439	4.86	<10	1.77	971	6	0.02	17	790	4	<5	<20	137	<0.01	<10	52	<10	<1	57	- 1.2m fault
49	LT-19	60	0.2	2.85	<5	35	5	6.12	1	40	202	56	6.21	<10	3.35	1404	9	0.01	78	960	10	10	<20	241	<0.01	<10	129	<10	2	98	- 1.3m py, c gst
50	LT-20	30	<0.2	2.07	<5	35	<5	5.03	<1	20	97	75	4.32	<10	2.03	1022	7	0.02	25	1010	10	<5	<20	189	<0.01	<10	54	<10	4	68	- 1.0m qv, fault
above 51	LT-50	15	<0.2	0.79	<5	20	<5	1.76	<1	39	79	139	2.37	<10	0.81	532	<1	0.03	35	1550	<2	5	<20	1463	0.11	<10	28	<10	8	25	0.3m ep, ser, py, in gst.
Falls 52	LT-51	10	<0.2	0.70	<5	70	<5	3.05	<1	29	51	164	2.53	<10	0.42	373	21	0.02	5	1510	<2	<5	<20	68	0.02	<10	15	<10	4	22	grab sericite, py, calc. gst
53	LT-53	15	<0.2	2.93	<5	40	<5	6.60	<1	39	165	61	5.53	<10	2.88	1429	<1	0.01	42	1200	10	5	<20	106	0.10	<10	119	<10	<1	75	grab, gst, qtz veinlets
54	LT-54	10	<0.2	0.03	<5	<5	<5	0.81	<1	1	191	32	0.64	<10	0.21	257	5	<0.01	5	80	<2	<5	<20	33	<0.01	<10	1	<10	<1	11	qtz vein boulder
ppcc 55	LT-55	10	<0.2	0.89	<5	45	<5	6.89	<1	30	85	108	5.34	<10	2.34	1366	3	0.02	23	880	4	<5	<20	145	<0.01	<10	59	<10	4	66	grab qtz-carb altrd gst,
56	LT-56	<5	<0.2	0.71	<5	45	<5	2.85	<1	9	78	29	2.17	<10	0.54	383	3	0.04	8	720	<2	5	<20	50	<0.01	<10	35	<10	3	64	grab marble - calcsilicate
57	LT-57	<5	<0.2	2.53	<5	50	<5	7.27	<1	34	75	319	5.99	<10	1.98	1445	4	0.06	20	740	18	<5	<20	157	<0.01	<10	104	<10	<1	81	1.5m calc. schist
58	LT-58	<5	<0.2	0.40	<5	60	<5	4.37	1	16	62	29	3.64	<10	1.34	907	3	0.03	14	840	<2	5	<20	110	<0.01	<10	28	<10	5	75	

KELLI CLAIM GROUP

WHITEHORSE MINING DIVISION

DONJEK RIVER – REED CREEK AREA

Mapsheet 115 G 12 UTM Zone 7 NAD 83

GEOCHEMICAL SOIL and SILT SAMPLING MAP

BY: Gordon Gutrath, geologist P.Eng.

Date: February 10,2015
Date : February 14, 2016

MAP 2 – 2014
MAP 3 -- 2015
Scale: 1 : 3000

MAP 1 – 2015 1:500

Outline of Map 1 1:1000 (2014)

2016 Exploration Area 1

2016 Exploration Area 2

LEGEND

Geochemical Soil and Silt Sampling

- ○ 25 x128 Soil sample number and waypoint UTM location
- ● 15 x65 Silt sample number and waypoint UTM location
- 125 ppb Au Analytical values are only noted if considered anomalous
- PF Could not obtain sample because of permafrost
- ⊗ 330 2015 Silt sample number and waypoint
- 15-2 2015 Rock specimen number and waypoint

Geological Symbols

- 8 Rock specimen location
- Shearing attitude
- Fault / lineament often represented by a topographic feature such as a gully
- Outline of rock outcrop area
- Slope
- Small poorly defined steam channel

Reed - Kelli Creek

Reed - Kelli Creek

Reed - Allen Creek

KELLI CLAIM GROUP

VAULT CLAIMS

Projected Trace of Structure 1

Projected Trace of Structure 2

Structure 1

LOWER CANYON

MIDDLE CANYON

UPPER CANYON

Camp

Allen's Camp

old mechanized placer mining

End of ATV trail from Reed - Kelli Creek

ATV trail

Reed - Allen Creek

Muskeg

spruce

alder

thick alder

open spruce muskeg

open spruce buckbrush

open heather

open alpine

open ridge

broad stream gully

deep gully

deep shaped gully

permafrost cross 3 small streams but only volcanic ash

glacial outwash gravels

Talus slope

orange weathering blocky - fresh fine to medium grained felsic porphyry intrusive

Allen 2014 alluvial soil mining by hand

chlorite schist (andesite)

very large round boulders up to 2-3m in diameter

2m 6°E

UPPER CANYON

MIDDLE CANYON

LOWER CANYON

End of Placer Mining 1986

Ridge

Structure 1

zone of structural deformation

2015 Panel Sampling

3100 E
3200 E
3300 E
3400 E
3500 E
4200 N
4300 N
4400 N
4500 N
4600 N
4700 N

3400'
3500'
3600
3700
3800'
3900'

21°6' E

LEGEND

Geology

Quartsmary

Qa — Glacial deposits

Tertiary to Miocene

Oligocene

Light orange weathering dacite dikes, fine grained to aphanitic, plagioclase and lesser quartz

Light grey weathering with a blocky joint pattern. White, fine to medium grained euhedral plagioclase is a fine grained plagioclase groundmass with 2% to 5% fine grained bladed hornblende. The northern section of the Middle Canyon has a large outcrop area tp and od intruding or overlying green schist meta-volcanics of Mesozoic age.

Mesozoic

Pennsylvanian - Permian

Stikine Groups: Stotion Creek Formation

bgpl — Black graphitic phyllite, often limey with interbedded limestone and quartz sericite schist. Lesser foliated greenstone. In Lower Canyon bgpl is intruded by numerous dacite dikes and subsequent intense shearing, faulting and folding has broken the dikes into irregular segments within bgpl. Disseminated fine pyrite 1% to 2% (Lower Canyon area)

sqs — Light cream to tan coloured sericite quartz schist

gs/(bl) — Dark to pale green foliated greenstone (chlorite schist). In the downstream section of the Middle Canyon the creek runs through gs below the road and above the road is intruded by fp that trend generally east-west across the canyon and irregular dikes of dd that trend north-south sub parallelling the creek canyon.

(gs/bl) and gs are primarily in the Middle Canyon area)

gs — Dark green to brown weathering, moderately to strong foliated greenstone (meta-volcanics primarily of andesite composition). Highly fractured, oxidized to dark brown and cut by flat lying widely spaced, highly fractured and folded – crumpled quartz veins from a few cm to 0.4 m in thickness and with 1% to 3% fine to course grained pyrite. The meta-volcanics have from 1% to 15% fine grained disseminated pyrite.

pg — Light grey-green weathering phyllitic carbonate. Bandor/bedded, strongly lineated, tight folding, less than 1% fine grevel disseminated pyrite. (Upper Canyon area)

Symbols / Abbreviations

and	andesite
chl sch	chlorite schist
ser sch	sericite schist
arg	argillite
ox	oxidized / pyritic
carb	carbonate
qv	quartz veinlets
lmst	limestone
py	pyrite
mag	magnetite + low% to +++high%
ca	calcium (limy) + low% to +++high%
	outline of rock outcrop
	inferred outline of outcrop
	geological contact
	inferred geological contact
	fault / intense shearing
	bedding attitude
	schistosity / foliation attitude
	attitude of fold axis and plunge
	joint attitude
	slope
	hand specimen
	sample for analysis
	old workings o 1930s-40s
	placer claim posts
	quartz claim posts
	road
	edge of creek gravels
	bulldozer stripped overburden
	bulldozer trench
Msk	muskeg (permafrost)
stnp	stunted black spruce
Sp	tall spruce (thawed?)
W	willow
Al	alder
	Gold anomalous soil sample 2015
Geochemical	Soil and Silt Sampling
x186	Soil sampling and waypoint 2015
O 25 x128	Soil sample number and waypoint location (2014)
o 15 x65	Silt sample number and waypoint location
125 ppb Au	Analytical values 27 ppb Au elevated or anomalous values
PF	Could not obtain sample because of permafrost

SCALE 1 : 500

0 10 20 30 40 50 60

metres

SCALE 1 : 500

KELLI CLAIM GROUP

WHITEHORSE MINING DIVISION

Donjek River – Reed Creek Area

Mapsheet 115 G 12 UTM Zone 7 NAD 83

Geology and Geochemical Map

By; Gordon Gutrath, geologist, P.Eng

Date: February 10 , 2015
February 15, 2016

MAP 1

2014 and 2015