

## **2005 Assessment Report**

**on the**

### **KENO LIGHTNING Property**

Homestake 1-5 (YC 38987-YC 38991), Homestake 6-26 (YC 39474-YC 39494),  
Homestake 27-32, (YC 39564-YC 39569), Homestake 33-36 (YC 39890-YC 39893),  
Maja 1-8 (YC 38992-YC 38999), Maja 9-13 (YC 39004-YC 39008),  
Maja 14 (YC 39543), Maja 15-24 (YC 39878-YC 39887), Murray 1-4 (YC 39000-YC  
39003), Ski 1-42 (YC 39009-YC 39050), and Ski 43-46 (YC 39451-YC 39454)

**NTS 105 M/14**

**Lat. 63°54'N, Long. 135°11' W**  
**Mayo Mining District**

**For: Matthias Bindig**  
**Box 15**  
**Keno City, Yukon**  
**Y0B 1M0**

**By: Ronald C. R. Robertson, P.Geol.**

**August 9, 2006**

**Period of Work: May, July, September and December 2005**

## Table of Contents

|   |           |
|---|-----------|
| <b>Introduction.....</b>                    | <b>1</b>  |
| Introduction.....                           | 1         |
| Location and Access .....                   | 1         |
| Physiography.....                           | 2         |
| Property and Claim Status .....             | 4         |
| <b>Geology and Mineralization.....</b>      | <b>9</b>  |
| <b>2005 Work Program .....</b>              | <b>11</b> |
| Prospecting.....                            | 11        |
| Homestake.....                              | 11        |
| Caribou.....                                | 11        |
| Duncan .....                                | 11        |
| Faith .....                                 | 12        |
| Bema .....                                  | 12        |
| Sample Preparation and Analysis .....       | 12        |
| <b>Conclusions and Recommendations.....</b> | <b>18</b> |
| <b>References.....</b>                      | <b>19</b> |

## **List of Figures**

|          |                               |    |
|----------|-------------------------------|----|
| Figure 1 | Regional Location Map .....   | 3  |
| Figure 2 | Claims, Access and Zone ..... | 8  |
| Figure 3 | Regional Geology Map .....    | 10 |
| Figure 4 | Prospecting Traverses.....    | 13 |
| Figure 5 | Homestake Traverses .....     | 14 |
| Figure 6 | Caribou Zone Traverse .....   | 15 |
| Figure 7 | Duncan Zone Traverse .....    | 16 |
| Figure 8 | Faith Zone Traverse.....      | 17 |

## **List of Tables**

|         |  |   |
|---------|--|---|
| Table 1 | Claims worked on .....                   | 4 |
| Table 2 | Claim Status following 2005 Filing ..... | 5 |

## **Appendices**

### **Appendix I: Statement of Qualifications**

### **Appendix II: Statement of Costs**

### **Appendix III: Sample Descriptions**

### **Appendix IV: Sample Analyses and Assays**

## **Introduction**

### **Introduction**

This report describes work carried out on the Keno Lightning property of Matthias Bindig of Keno City at various times between May and December 2005, based on the writer's observations during a property visit in July 2005, information from M. Bindig and B. Harris relating to the work carried out at other times in 2005, and information from reports and publications listed under References.

### **Location and Access**

The Keno Lightning property claims are located near Keno City, approximately 350 km north west of Whitehorse, Yukon, and 55 km northeast of Mayo (Figure 1). The various zones and old showings covered by the present report are accessible from Keno City via numerous existing roads and trails (Figure 2). A two-wheel drive road follows Lightning Creek upstream to McNeil Gulch; a number of four-wheel drive trails branch off the Lightning Creek road and can be used to access different parts of the claim block.

The Homestake zone is the closest part of the property to Keno City (approximately 4 km) and can be reached by crossing Lightning Creek at the head of Thunder Gulch (currently being mined by Hans Barchen (Bardusan Placer)). A two kilometer long four-wheel drive bulldozer trail heads up the side of Bunker Hill to the claims. Once on the claim block this road forks with one branch leading north-east to the portal of the old Homestake adit. There are two buildings at the end of the south branch; the four main trenches of the Homestake occurrence are accessible from this point. The section of the Lightning Creek road between Hope Gulch and McNeil Gulch passes through part of the Homestake group of claims.

At Hope Gulch the four-wheel drive Faith Creek road branches off the Lightning Creek road and continues along the southern slopes of Keno Hill leading to Faith Creek and the Keno-Ladue River. This road passes through the Ski claims and provides access to the part of the property located north of Lightning Creek. The Hope Gulch trail branches off the faith creek road shortly after crossing Hope Gulch and enters the claim block again in approximately 3.5 km on the plateau that marks the divide between Hope and Faith Gulches. From this point the Caribou and Duncan zones on the Murray claims can be reached using a short bulldozer road that heads to the top of Caribou Hill. A rough bulldozer trail continues for 1.5 km farther east into Faith Gulch and allows access to the Faith zone on the Ski claims.

The Avenue zone can be accessed via the Beauvette Hill trail which branches off from the Faith Creek road to the north just before crossing Faith Gulch. This 2 km long four-wheel drive bulldozer trail leads up to the plateau between Beauvette and Caribou Hills where the Avenue zone trenches are located.

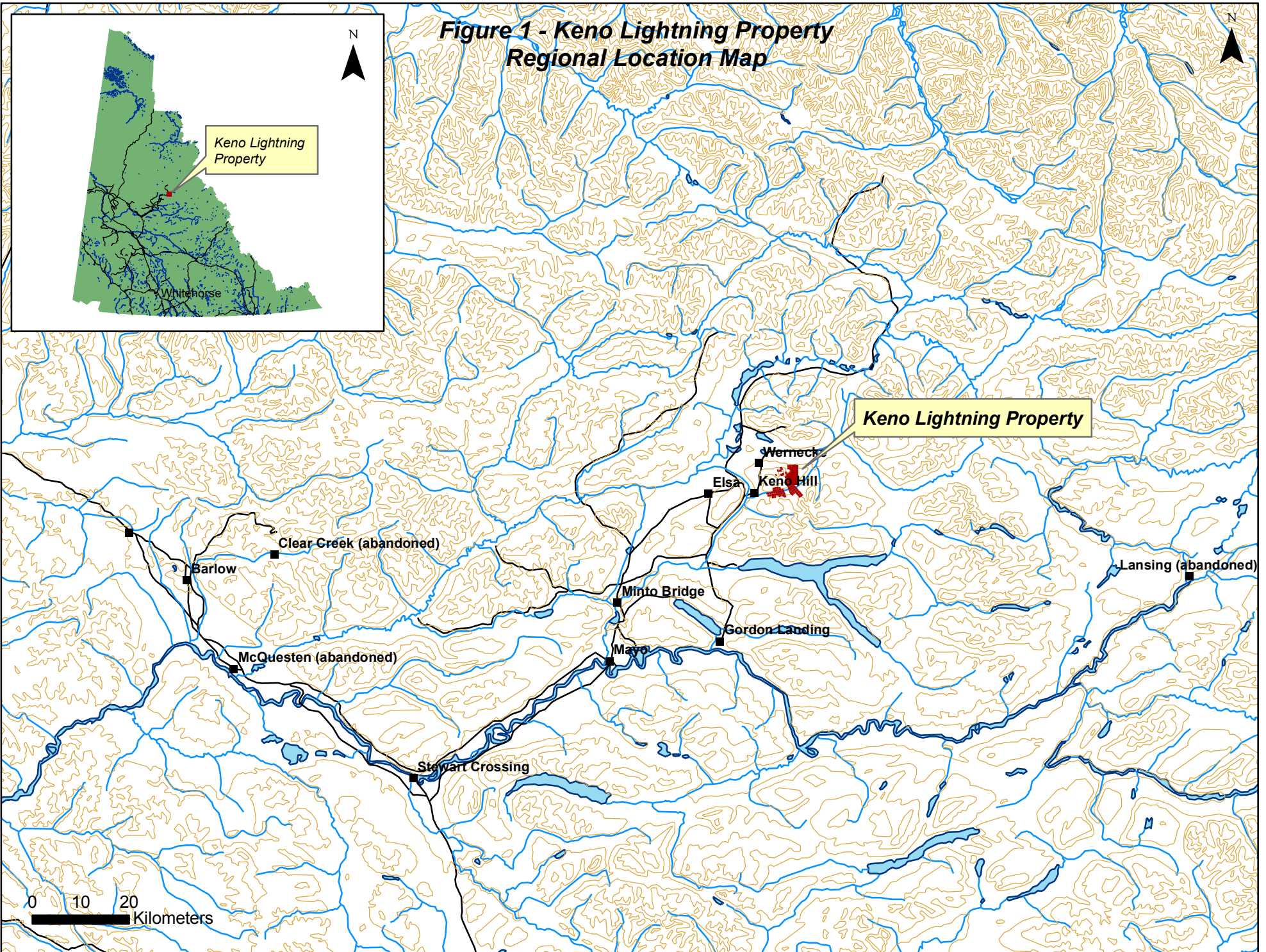
The Maja claims cover McMillan Gulch and extend over part of the ridge between McMillan and McNeil Gulches. They can be reached using a bulldozer trail which continues 1.5 km past McNeil Gulch, following Lightning Creek upstream to a small lake. After crossing Lightning Creek at McNeil Gulch the trail climbs up the south

bank of the creek and continues for 2 km east to the long trench of the Bema zone. The last section of this route is very rough.

The Murray claims in Silver basin Gulch and on top of Keno Hill can be accessed by the two-wheel drive Signpost Road from Keno City. From the Signpost a four-wheel drive bulldozer trail continues for 3 km into Silver Basin Gulch and provides access to the trenches.

### **Physiography**

The properties are located in the Gustavus range of the Wernecke Mountains. Elevations of the zones of interest on the claims range from approximately 1300 metres at the Homestake occurrence on Bunker Hill to over 1750 metres at the Caribou and Duncan showings on Caribou Hill. Total relief in the area is approximately 1000 metres, from 700 metres near Keno City to the summits of these hills. Most of the occurrences are in alpine tundra terrain with typical thin stony soils, talus, grass and moss. Low shrubs are present in more sheltered areas. At lower elevations, north-facing slopes have dense growths of black spruce, whereas conifers, poplars and alders are common on south-facing slopes.



### **Property and Claim Status**

The Lightning property consists of (Figure 2) 119 claims, of which 110 are included in the present filing. The approximate area covered by these claims is 2300 hectares. The claims are located in the Mayo Mining District in NTS map sheet 105 M-14, at 63°54'N latitude, 135°50'11'W longitude.

Note that the complete Keno-Lightning property includes Kim Klippert's Adam claims, located in McNeil Gulch between the Homestake and Maja claims. The Adam claims are not part of the present work application and are not included in this report.

During the 2005 field season, work was carried out on the claims listed in the table below.

**Table 1: Claims Worked On**

| <i>Claim Name</i> | <i>Grant Number</i> |
|-------------------|---------------------|
| Homestake 1       | YC38987             |
| Homestake 2       | YC38988             |
| Homestake 6       | YC39474             |
| Homestake 7       | YC39475             |
| Maja 5            | YC38996             |
| Maja 7            | YC38998             |
| Maja 9            | YC39004             |
| Maja 18           | YC39881             |
| Murray 1          | YC39000             |
| Ski 30            | YC39038             |
| Ski 37            | YC39045             |

The table below updates the claim status following this work being applied.

**Table 2: Claim Status following this Filing**

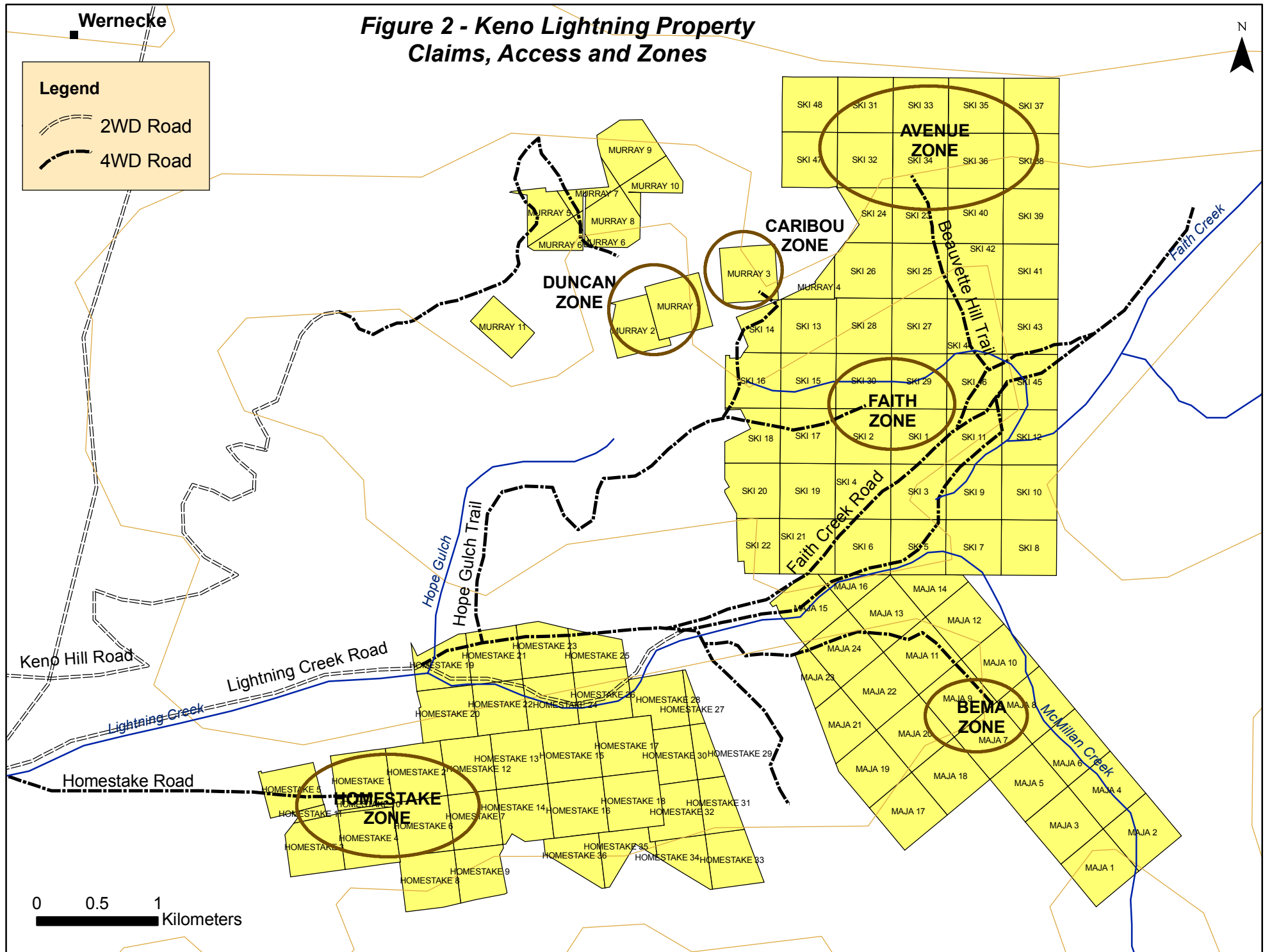
| <i>Claim Name</i> | <i>Grant No.</i> | <i>Expiry Date</i> | <i>New Expiry Date*</i> |
|-------------------|------------------|--------------------|-------------------------|
| Homestake 1       | YC38987          | 14 February 2006   | 14 February 2007        |
| Homestake 2       | YC38988          | 14 February 2006   | 14 February 2007        |
| Homestake 3       | YC38989          | 14 February 2006   | 14 February 2008        |
| Homestake 4       | YC38990          | 14 February 2006   | 14 February 2007        |
| Homestake 5       | YC38991          | 14 February 2006   | 14 February 2007        |
| Homestake 6       | YC39474          | 3 June 2006        | 3 June 2007             |
| Homestake 7       | YC39475          | 3 June 2006        | 3 June 2007             |
| Homestake 8       | YC39476          | 3 June 2006        | 3 June 2007             |
| Homestake 9       | YC39477          | 3 June 2006        | 3 June 2007             |
| Homestake 10      | YC39478          | 3 June 2006        | 3 June 2009             |
| Homestake 11      | YC39479          | 3 June 2006        | 3 June 2009             |
| Homestake 12      | YC39480          | 3 June 2006        | 3 June 2009             |
| Homestake 13      | YC39481          | 3 June 2006        | 3 June 2009             |
| Homestake 14      | YC39482          | 3 June 2006        | 3 June 2007             |
| Homestake 15      | YC39483          | 3 June 2006        | 3 June 2009             |
| Homestake 16      | YC39484          | 3 June 2006        | 3 June 2007             |
| Homestake 17      | YC39485          | 3 June 2006        | 3 June 2008             |
| Homestake 18      | YC39486          | 3 June 2006        | 3 June 2007             |
| Homestake 19      | YC39487          | 3 June 2006        | 3 June 2007             |
| Homestake 20      | YC39488          | 3 June 2006        | 3 June 2007             |
| Homestake 21      | YC39489          | 3 June 2006        | 3 June 2007             |
| Homestake 22      | YC39490          | 3 June 2006        | 3 June 2007             |
| Homestake 23      | YC39491          | 3 June 2006        | 3 June 2007             |
| Homestake 24      | YC39492          | 3 June 2006        | 3 June 2007             |
| Homestake 25      | YC39493          | 3 June 2006        | 3 June 2007             |
| Homestake 26      | YC39494          | 3 June 2006        | 3 June 2007             |
| Homestake 27      | YC39564          | 19 July 2006       | 19 July 2007            |
| Homestake 28      | YC39565          | 19 July 2006       | 19 July 2007            |
| Homestake 29      | YC39566          | 19 July 2006       | 19 July 2007            |
| Homestake 30      | YC39567          | 19 July 2006       | 19 July 2007            |
| Homestake 31      | YC39568          | 19 July 2006       | 19 July 2007            |
| Homestake 32      | YC39569          | 19 July 2006       | 19 July 2007            |
| Homestake 33      | YC39890          | 27 September 2006  | 27 September 2007       |
| Homestake 34      | YC39891          | 27 September 2006  | 27 September 2007       |
| Homestake 35      | YC39892          | 27 September 2006  | 27 September 2007       |
| Homestake 36      | YC39893          | 27 September 2006  | 27 September 2007       |
| Maja 1            | YC38992          | 10 March 2006      | 10 March 2007           |
| Maja 2            | YC38993          | 10 March 2006      | 10 March 2007           |
| Maja 3            | YC38994          | 10 March 2006      | 10 March 2007           |
| Maja 4            | YC38995          | 10 March 2006      | 10 March 2007           |
| Maja 5            | YC38996          | 10 March 2006      | 10 March 2007           |
| Maja 6            | YC38997          | 10 March 2006      | 10 March 2007           |
| Maja 7            | YC38998          | 10 March 2006      | 10 March 2007           |
| Maja 8            | YC38999          | 10 March 2006      | 10 March 2007           |
| Maja 9            | YC39004          | 17 March 2006      | 17 March 2007           |

| <i>Claim Name</i> | <i>Grant No.</i> | <i>Expiry Date</i> | <i>New Expiry Date*</i> |
|-------------------|------------------|--------------------|-------------------------|
| Maja 10           | YC39005          | 17 March 2006      | 17 March 2007           |
| Maja 11           | YC39006          | 17 March 2006      | 17 March 2007           |
| Maja 12           | YC39007          | 17 March 2006      | 17 March 2007           |
| Maja 13           | YC39008          | 17 March 2006      | 17 March 2007           |
| Maja 14           | YC39543          | 17 March 2006      | 17 March 2007           |
| Maja 15           | YC39878          | 27 September 2006  | 27 September 2007       |
| Maja 16           | YC39879          | 27 September 2006  | 27 September 2007       |
| Maja 17           | YC39880          | 27 September 2006  | 27 September 2007       |
| Maja 18           | YC39881          | 27 September 2006  | 27 September 2007       |
| Maja 19           | YC39882          | 27 September 2006  | 27 September 2007       |
| Maja 20           | YC39883          | 27 September 2006  | 27 September 2007       |
| Maja 21           | YC39884          | 27 September 2006  | 27 September 2007       |
| Maja 22           | YC39885          | 27 September 2006  | 27 September 2007       |
| Maja 23           | YC39886          | 27 September 2006  | 27 September 2007       |
| Maja 24           | YC39887          | 27 September 2006  | 27 September 2007       |
| Murray 1          | YC39000          | 10 March 2006      | 10 March 2007           |
| Murray 2          | YC39001          | 10 March 2006      | 10 March 2007           |
| Murray 3          | YC39002          | 10 March 2006      | 10 March 2007           |
| Murray 4          | YC39003          | 10 March 2006      | 10 March 2007           |
| Ski 1             | YC39009          | 17 March 2006      | 17 March 2007           |
| Ski 2             | YC39010          | 17 March 2006      | 17 March 2007           |
| Ski 3             | YC39011          | 17 March 2006      | 17 March 2007           |
| Ski 4             | YC39012          | 17 March 2006      | 17 March 2007           |
| Ski 5             | YC39013          | 17 March 2006      | 17 March 2007           |
| Ski 6             | YC39014          | 17 March 2006      | 17 March 2007           |
| Ski 7             | YC39015          | 17 March 2006      | 17 March 2007           |
| Ski 8             | YC39016          | 17 March 2006      | 17 March 2007           |
| Ski 9             | YC39017          | 17 March 2006      | 17 March 2007           |
| Ski 10            | YC39018          | 17 March 2006      | 17 March 2007           |
| Ski 11            | YC39019          | 17 March 2006      | 17 March 2007           |
| Ski 12            | YC39020          | 17 March 2006      | 17 March 2007           |
| Ski 13            | YC39021          | 17 March 2006      | 17 March 2007           |
| Ski 14            | YC39022          | 17 March 2006      | 17 March 2007           |
| Ski 15            | YC39023          | 17 March 2006      | 17 March 2007           |
| Ski 16            | YC39024          | 17 March 2006      | 17 March 2007           |
| Ski 17            | YC39025          | 17 March 2006      | 17 March 2007           |
| Ski 18            | YC39026          | 17 March 2006      | 17 March 2007           |
| Ski 19            | YC39027          | 17 March 2006      | 17 March 2007           |
| Ski 20            | YC39028          | 17 March 2006      | 17 March 2007           |
| Ski 21            | YC39029          | 17 March 2006      | 17 March 2007           |
| Ski 22            | YC39030          | 17 March 2006      | 17 March 2007           |
| Ski 23            | YC39031          | 31 March 2006      | 31 March 2007           |
| Ski 24            | YC39032          | 31 March 2006      | 31 March 2007           |
| Ski 25            | YC39033          | 31 March 2006      | 31 March 2007           |
| Ski 26            | YC39034          | 31 March 2006      | 31 March 2007           |
| Ski 27            | YC39035          | 31 March 2006      | 31 March 2007           |
| Ski 28            | YC39036          | 31 March 2006      | 31 March 2007           |
| Ski 29            | YC39037          | 31 March 2006      | 31 March 2007           |
| Ski 30            | YC39038          | 31 March 2006      | 31 March 2007           |
| Ski 31            | YC39039          | 31 March 2006      | 31 March 2007           |

| <i>Claim Name</i> | <i>Grant No.</i> | <i>Expiry Date</i> | <i>New Expiry Date*</i> |
|-------------------|------------------|--------------------|-------------------------|
| Ski 32            | YC39040          | 31 March 2006      | 31 March 2007           |
| Ski 33            | YC39041          | 31 March 2006      | 31 March 2007           |
| Ski 34            | YC39042          | 31 March 2006      | 31 March 2007           |
| Ski 35            | YC39043          | 31 March 2006      | 31 March 2007           |
| Ski 36            | YC39044          | 31 March 2006      | 31 March 2007           |
| Ski 37            | YC39045          | 31 March 2006      | 31 March 2007           |
| Ski 38            | YC39046          | 31 March 2006      | 31 March 2007           |
| Ski 39            | YC390047         | 31 March 2006      | 31 March 2007           |
| Ski 40            | YC39048          | 31 March 2006      | 31 March 2007           |
| Ski 41            | YC39049          | 31 March 2006      | 31 March 2007           |
| Ski 42            | YC39050          | 31 March 2006      | 31 March 2007           |
| Ski 43            | YC39451          | 31 March 2006      | 31 March 2007           |
| Ski 44            | YC39452          | 31 March 2006      | 31 March 2007           |
| Ski 45            | YC39453          | 31 March 2006      | 31 March 2007           |
| Ski 46            | YC39454          | 31 March 2006      | 31 March 2007           |

\*following approval of filing

**Figure 2 - Keno Lightning Property Claims, Access and Zones**



## Geology and Mineralization

Regional geology of the area is shown in Figure 3 (from Gordey and Makepeace, 2000).

The Keno Hill-Galena Hill area is underlain by Yukon Group metasedimentary rocks (Boyle, 1965). These rocks have been divided locally into three formations (Watson, 1986); Upper Schist, Central Quartzite and Lower Schist. Conformable greenstone horizons (metamorphosed diorite or gabbro) occur as lenses or sills. The Upper Schist consists of quartz-mica schist, quartzite, graphitic phyllite and calcareous schist and minor limestone. The Central Quartzite contains thick- and thin-bedded quartzite, massive quartzite, graphitic phyllites and schists and calcareous schist. This unit is up to 700 m in thickness and hosts many of the principal silver deposits of the camp. The Lower Schist includes graphitic schist, argillite, thin-bedded quartzite, calcareous schist, phyllite, slate, sericite schist and minor quartzite. These units strike east-west and dip 20 to 30 degrees south. Silver-lead-zinc lode deposits are hosted by a series of faults which strike northeast and dip steeply southeast. These vein faults show left-lateral movement with offsets of up to 150 metres and range in width from 0.3 metres to over 30 metres. The mineralized vein faults are offset by two types of unmineralized faults. Cross faults strike northwest and dip 40 to 60 degrees to the southwest. Bedding plane thrust faults are the second type of fault. Both types show some evidence of post-ore movement.

The Keno Hill-Galena Hill camp produced silver from 1913 until the mid-1980's. Total production was approximately 4.54 million tonnes with an average grade of 1412 g/t silver, 6.84% lead and 4.60% zinc (Watson, 1986). Over 65 deposits and prospects have been recognized in the district. The main lode deposits occur within the Central Quartzite where fracturing of competent rock has produced open spaces for mineral deposition. Where vein faults pass into less competent rock units they become narrow and poorly mineralized. Ore zones also occur in other competent rock types in the Lower Schist such as greenstone horizons. Vein faults can occur as simple veins, breccia zones or sheeted zones. Simple veins consist of siderite gangue, with occasional quartz and discontinuous bands of silver-bearing sulphides. Breccia zones consist of angular rock fragments (quartzite, phyllite, greenstone) in a matrix of siderite, commonly with some quartz. Sheeted zones have slabs of greenstone separated by narrow fractures filled with breccia or gouge. Breccia fragments and slabs are cemented by siderite, sulphides and some quartz. The principal gangue mineral is siderite. The main ore minerals are argentiferous galena, argentiferous tetrahedrite (freibergite) and pyrargyrite ("ruby silver"). Polybasite, stephanite, argentite and native silver are silver-bearing minerals which occur locally in minor amounts. Other ore minerals such as sphalerite, chalcopyrite and lead sulphosalts (jamesonite, boulangerite, etc.) are present in varying amounts. Pyrite, arsenopyrite and barite occur in many veins.

Two stages of vein mineralization have been recognized in the district. The first stage deposited quartz, pyrite and some arsenopyrite with trace gold and some sulphosalts in the vein faults. A second stage deposited siderite, galena, sphalerite, pyrite, freibergite and pyrargyrite. Several writers have described district-wide metal and mineral zoning patterns (Franzen, 1986; Lynch, 1986; Tessari and Sinclair, 1980).

**Figure 3- Keno Lightning Property  
Regional Geology**



## **2005 Work Program**

### **Prospecting**

Prospecting traverses were carried out during all of the work periods covered by this report. Traverses are shown with the respective dates and personnel in Figures 4 through 8.

### **Homestake**

The Homestake showings (Minfile 105M011) were originally staked in 1920. In the period from 1928 to 1931 a 26.8 metre deep shaft was sunk and 38.4 metres of underground development was completed. Extensive bulldozer trenching was carried out in 1962-1964 and again in 1966 and 1974. Additional underground development consisting of 107 metres of crosscuts, 143 metres of drifting on the vein and 203.9 metres of underground drilling, was completed in 1967 by Hecla Mining Company of Canada Ltd.

Two types of vein have been located by historic exploration. A longitudinal vein has been explored for over 90 metres on surface; mineralization consists of lenses of arsenopyrite and galena in quartz carbonate gangue. Lenses rich in arsenopyrite have assayed up to 102.9 g/t gold over narrow widths. A transverse vein was exposed over a 30 metre length by bulldozer trenching in 1966; mineralization consists of tetrahedrite and galena in carbonate gangue, with reported assay values up to 1131.4 g/t silver.

The initial property visit in May 2005 focused on establishing access to the property and identifying the trenches and drill sites. Six rock samples were collected from Trenches #1, 2 and 4 in July (Figure 5). Sample descriptions and analyses are presented in Appendices III and IV.

### **Caribou**

Between 1920 and 1928 a 13.7 metre long adit and 40.2 metres of drifting were completed (Minfile 105M062). In the period 1926-1928 a total of 78.9 tonnes of ore grading 6103 g/t silver and 70% lead were hand mined by Treadwell Yukon. In 1952 United Keno Hill Mines Ltd. optioned the property and explored a new location to the southwest with an 8.2 metre adit and bulldozer trenching. Dawson Eldorado Mines Ltd. explored the property in 1986 (Van Angeren and White, 1987).

In July 2005 the main trenches and the sites of the UKHM and Treadwell adits were located. The adits have been partly exposed by later trenching. Three rock samples were collected; locations are shown in Figure 6. Sample descriptions and analyses are presented in Appendices III and IV.

### **Duncan**

The Duncan occurrence (Minfile 105M003) was initially staked in 1919 and explored with a 14 metre shaft and 11.6 metres of drifting; 11.8 tonnes of hand-cobbed ore, grading 23,147 g/t silver and 22% lead, were shipped in 1923. The Duncan shaft was located on the steep north-facing cirque wall, approximately 90 metres below the rim. The shaft cribbing has collapsed and the shaft entrance is blocked.

Bulldozer trenches were excavated on the south slope at various times between 1946, 1962 and 1989. The trenches were examined in July 2005 (Figure 7); most are sloughed in and very little bedrock is visible. It is possible that at least some of these trenches did not reach true bedrock. Most rocks seen in the trenches are grey-green phyllites and some dark carbonaceous phyllites, which are not good host rocks for vein development. Some float of rusty quartz vein material with occasional minor pyrite and very minor siderite was seen. No samples were collected at the Duncan trenches.

### **Faith**

The Faith showing (Minfile 105M002) is located on a steep slope facing north into Faith Gulch (Figure 8). The showing was initially staked in 1920 and explored by hand-dug pits and trenches in 1922-1924 and again in 1960. Also in 1960 a 7.6 metre inclined shaft was excavated and approximately 18 metres of underground development along the vein structure. Very little additional exploration has been carried out since that time, in part at least because of difficult access to the site. Several bulldozer trenches were excavated between 1963 and 1979. The shaft is now partially collapsed. Bulldozer trenches expose greenstone, thin-banded quartzites and carbonaceous phyllites. Mineralization is reported as quartz-siderite veins with some galena, tetrahedrite and pyrite.

In July 2005 one rock sample was collected from the bulldozer trench just below the shaft. The material is float, probably from shaft dumps which have been moved around by later bulldozer work. A sample description is presented in Appendix III and analysis in Appendix IV.

### **Bema**

The Bema showing (Minfile 105M073) was staked by Canada Tungsten Mining Corp in 1979. Regional mapping and geochemical sampling were carried out in 1979-1981. Three veins are reported to cut the Keno Hill Quartzite unit. Two of the veins are minor quartz stockworks with disseminated galena. The other is a quartz vein with minor disseminated arsenopyrite in a 5 metre long stockwork zone; a grab sample was reported to assay 31.5 g/t gold.

During the property examination in July 2005, the long bulldozer trench which contours around the base of the slope was prospected. There is very little bedrock exposure in the trench except near the western end. Large talus blocks of quartzite and carbonaceous phyllite are common. Occasional quartz vein material with minor limonite was seen. No vein material with arsenopyrite was found and no samples were collected.

### **Sample Preparation and Analysis**

Ten rock samples numbered 71930 to 71939, collected from the Keno Lightning property in July, 2005, were submitted to Eco Tech Laboratory Ltd. in Kamloops, BC, for analysis. After crushing and pulverizing, a 30 g split is analysed for gold by fire assay with atomic absorption finish, and another sample split is analysed for 28 minor and trace elements (including base metals, silver, arsenic, antimony, etc.) by ICP analysis after digestion with aqua regia. Samples showing overlimit analyses of the principal elements of economic interest were assayed.

### Figure 4 - Keno Lightning Property Prospecting Traverses

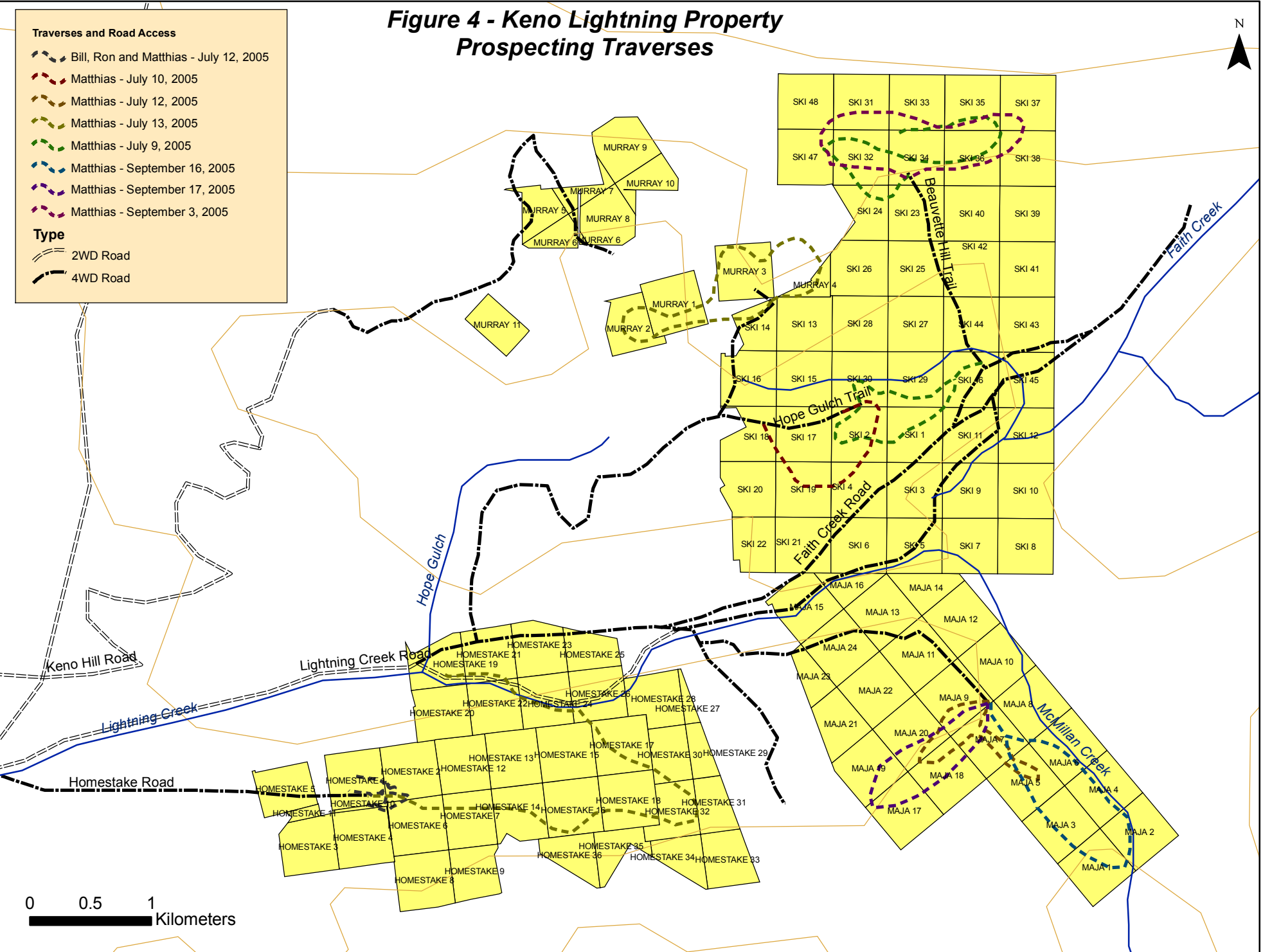


Figure 5 Homestake Traverses

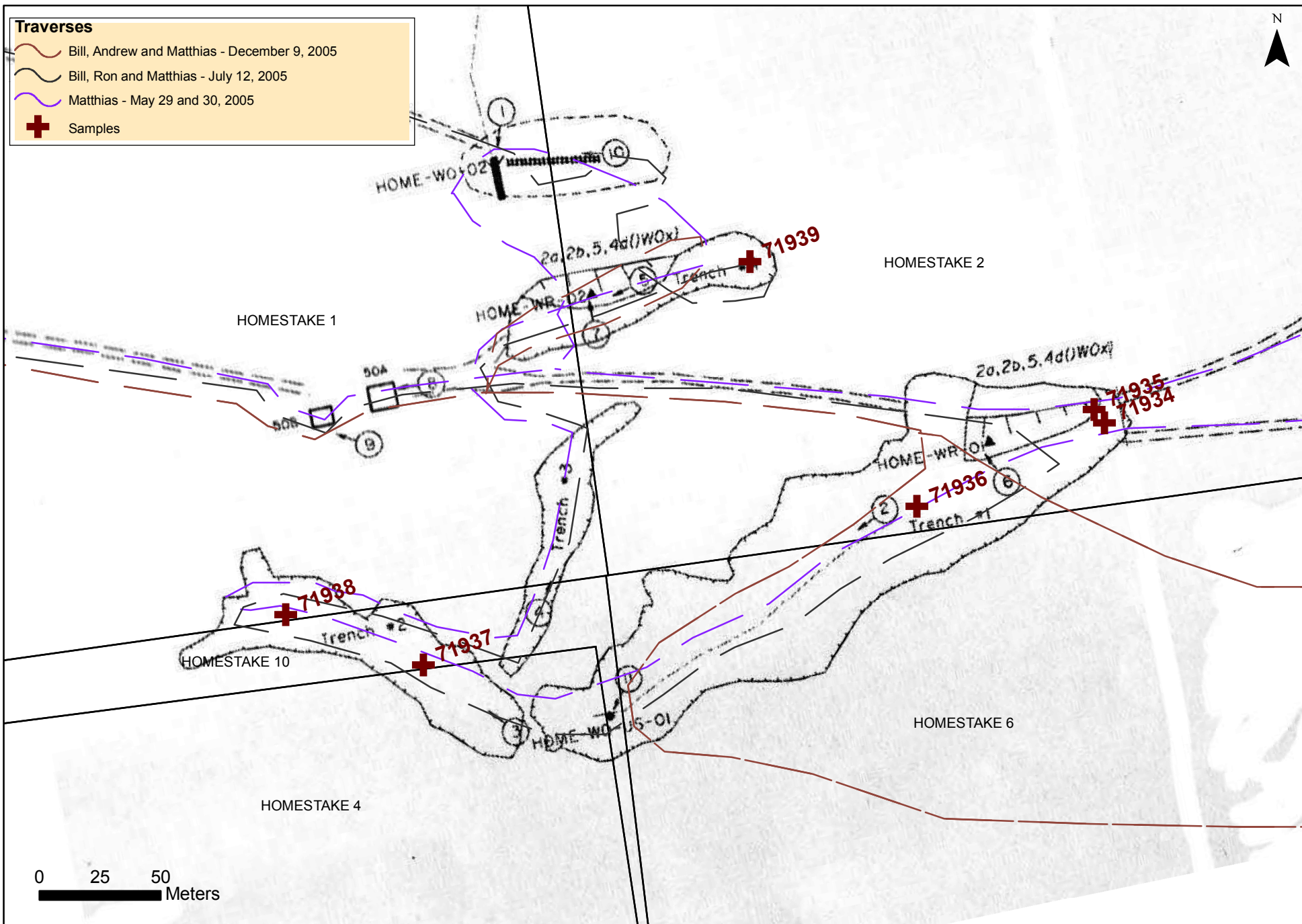


Figure 6 Caribou Zone Traverse

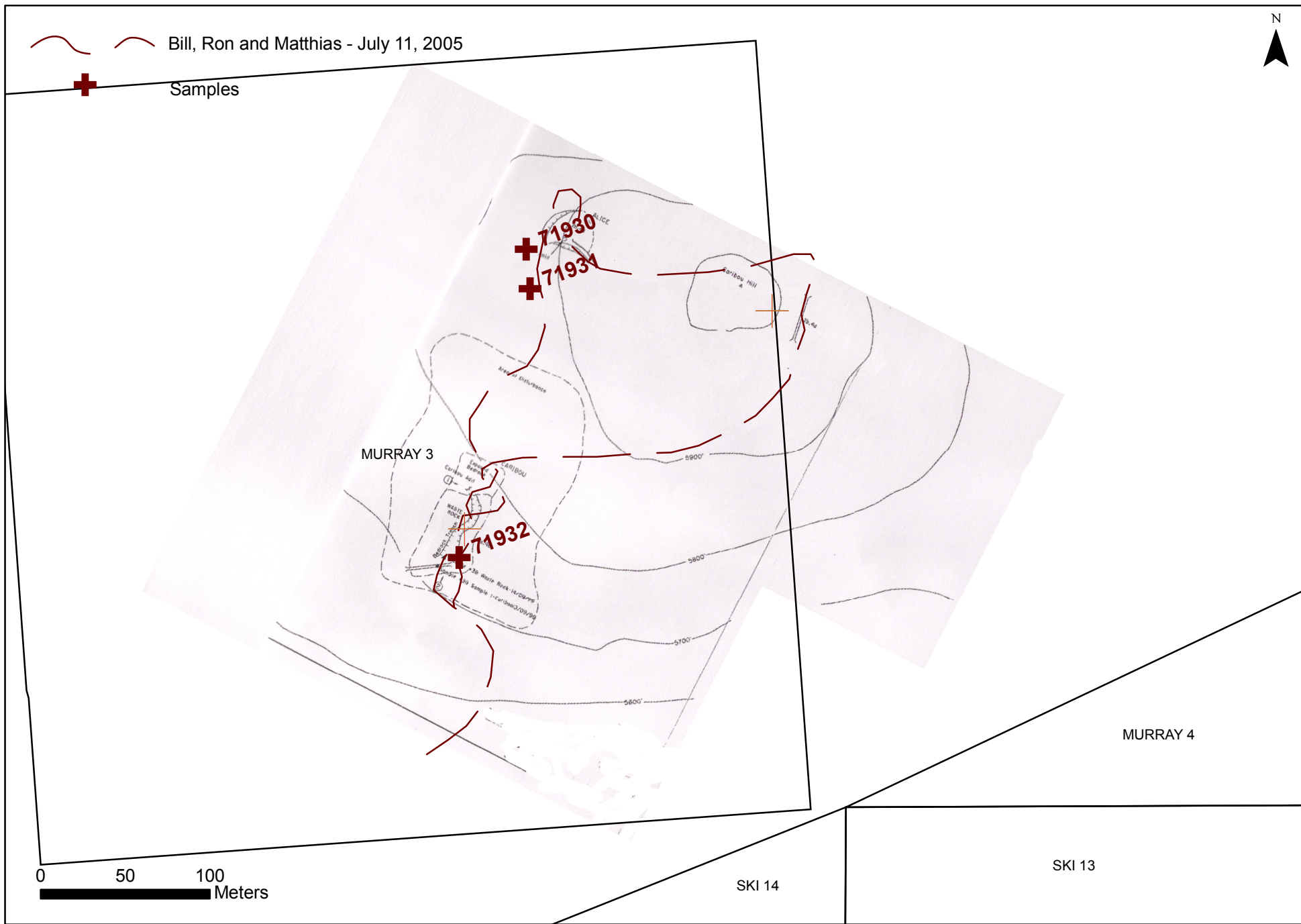


Figure 7 Duncan Zone Traverse

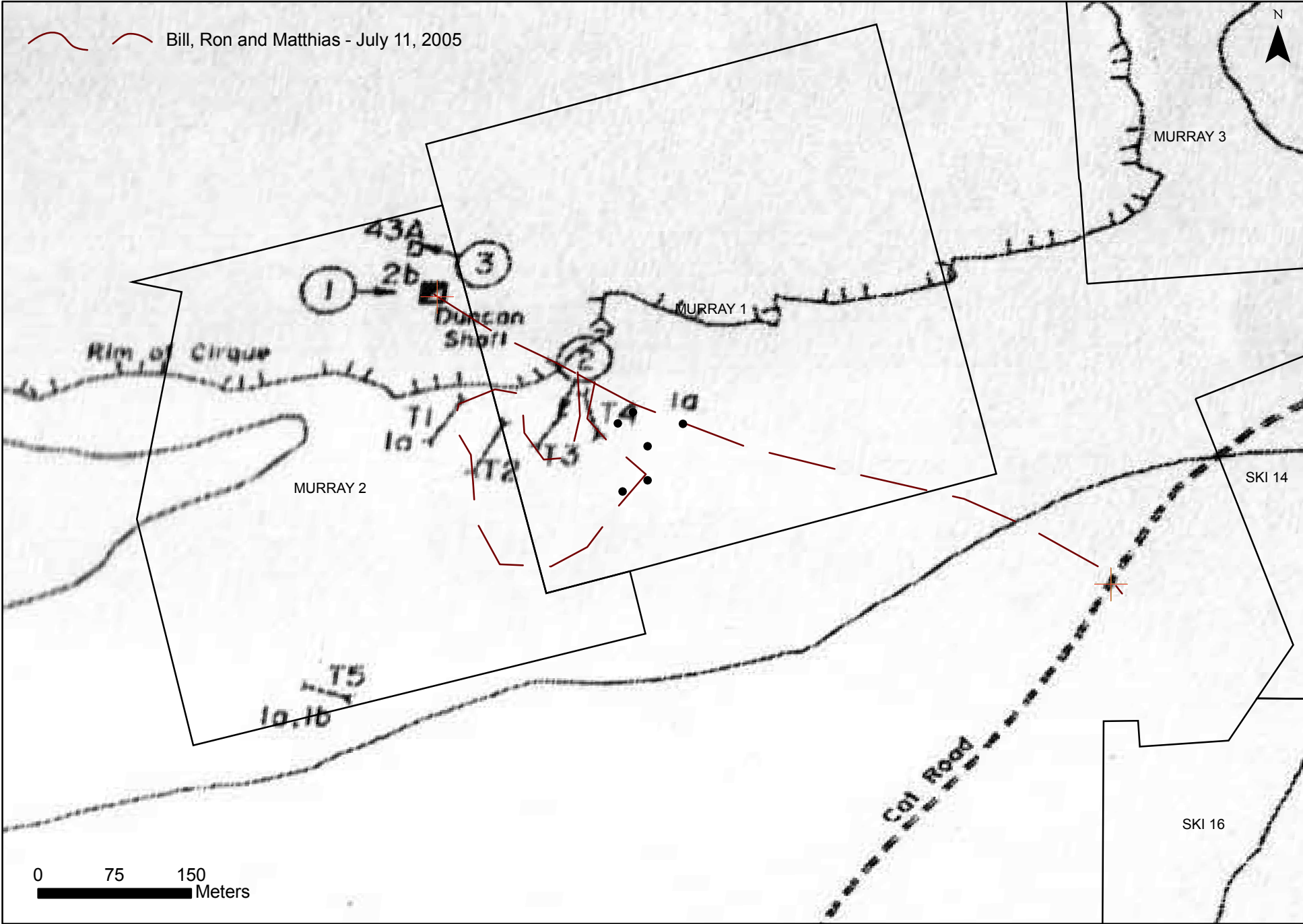
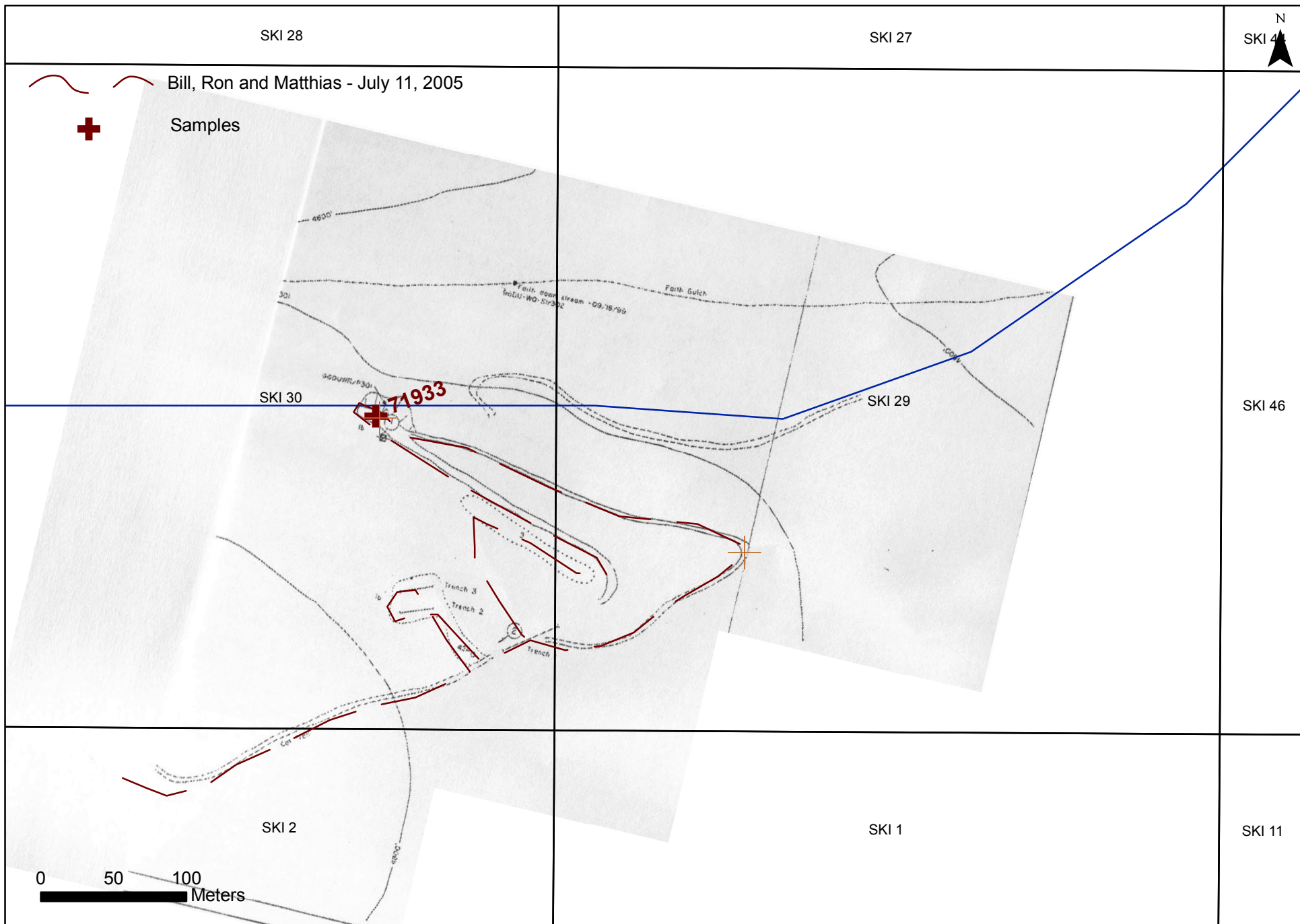


Figure 8 Faith Zone Traverse



Sample descriptions are in Appendix III and analytical results are reported in Appendix IV. Two samples numbered 71940 and 71941 are included in the lab reports; these samples are not from the areas described in this report.

## **Conclusions and Recommendations**

In general, the zones covered by the Keno Lightning property have seen only preliminary prospecting to date. The Bema showing seems to have little merit unless additional prospecting is successful in locating the gold-bearing quartz-arsenopyrite vein described in earlier reports. Most of the other zones are located where the right rock types and structures are present, and permissible for typical Keno Hill silver-lead-zinc mineralization. Thorough prospecting is warranted, in combination with soil geochemical sampling, where local conditions permit (e.g. talus fine samples), and possible use of VLF-EM surveys to attempt to locate favourable structural sites.

The Homestake zone is more immediately attractive for larger scale exploration in view of the number of highly anomalous gold values in the rock samples collected in 2005, which ranged from 1.36 to 17.3 g/t gold. A small back hoe could be used to clean out the existing trenches for systematic sampling, and at the same time surface exploration should be directed to locating extensions to the existing veins.

Respectfully submitted,

Ronald C.R. Robertson P.Geol.

## References

- Boyle, R. W., 1965, "Geology, geochemistry and origin of the lead-zinc-silver deposits of the Keno Hill-Galena Hill area, Yukon Territory", Geological Survey of Canada Bulletin 111.
- Deklerk, R. and Traynor, S. (compilers), 2004. "Yukon Minfile 2004 – a database of mineral occurrences", Yukon Geological Survey (website and CD-ROM).
- Franzen, J. P., 1986: "Metal-ratio zonation in the Keno Hill district, central Yukon", in Yukon Geology, Vol. 1, Exploration and Geological Services division, Yukon, Indian and Northern Affairs Canada, p. 98-108.
- Gordey, S. P. and Makepeace, A.J., 2000. "Yukon Digital Geology", Geological Survey of Canada, Open File D3826, and Exploration and Geological Services Division, Yukon Region, Indian and Northern Affairs Canada, Open File 1999-1(D).
- Hart, C. J. R., 2002. "The Geological Framework of the Yukon Territory", in Yukon Geological Survey website.
- Lynch, G., 1986. "Mineral zoning in the Keno Hill silver-lead-zinc mining district, Yukon", in Yukon Geology, Vol. 1, Exploration and Geological Services division, Yukon, Indian and Northern Affairs Canada, p. 89-97.
- Tessari, O. J. and Sinclair, A. J., 1980. "Metal and mineral zoning models and their practical importance: Keno Hill-Galena Hill camp, Yukon Territory", Western Miner, October 1980 ,p. 52-66.
- Van Angeren, P.D. and White, P.S., 1987. "Report on the Geology, Geochemistry and trenching of the Keno Hill Sub-leases and Working Permits": report for Dawson Eldorado Mines Ltd. Assessment report # 092159.
- Watson, K.W., 1984 "Silver-lead-zinc deposits of the Keno Hill-Galena Hill area, central Yukon"; in Yukon geology, Vol. 1, Exploration and geological Services division, Yukon, Indian and Northern Affairs Canada, p. 83-88.

## APPENDIX I

### STATEMENT OF QUALIFICATIONS

I, Ronald C. R. Robertson, certify that:

I am a self-employed consulting geologist with office address at 36 Riverview Gardens SE, Calgary, Alberta, T2C 4G7.

I obtained a Bachelor of Science degree with First Class Honours in Geology from the University of Aberdeen, Scotland, in 1970 and subsequently carried out graduate studies in economic geology at Queen's University, Kingston, Ontario.

I am registered as a Professional Geologist (number M54692) by the Association of Professional Engineers, Geologists & Geophysicists of Alberta.

I have been engaged in mineral exploration and development on a full-time basis for over 30 years, of which twelve have been spent on programs in the Yukon Territory, Northern British Columbia and Alaska. I participated in the exploration described in this report on the Lightning property of Matthias Bindig in July 2005.

SIGNED at Whitehorse, Yukon Territory, on August 9, 2006

---

**Ronald C. R. Robertson, P. Geol.**

## **APPENDIX II**

### **STATEMENT OF COSTS**

| <b>Keno Lightning Assessment Costs 2005</b> |              |                    |                 |                    |                  |                    |                 |                    |                   |                    |                      |                |                 |
|---|--------------|--------------------|-----------------|--------------------|------------------|--------------------|-----------------|--------------------|-------------------|--------------------|----------------------|----------------|-----------------|
|   |              | <b>May 29-30</b>   |                 |                    | <b>July 9-13</b> |                    | <b>Sept 3</b>   |                    | <b>Sept 16-17</b> |                    | <b>December 9-10</b> |                |                 |
| <b>Item</b>                                 | <b>Rates</b> | <b>No. of Days</b> | <b>Subtotal</b> | <b>No. of Days</b> | <b>Subtotal</b>  | <b>No. of Days</b> | <b>Subtotal</b> | <b>No. of Days</b> | <b>Subtotal</b>   | <b>No. of Days</b> | <b>Subtotal</b>      | <b>Total</b>   |                 |
| <b>Personnel (field work)</b>               | B. Harris    | \$300/day          |                 |                    | 2                | 600.00             |                 |                    |                   |                    | 1                    | 300.00         | 900.00          |
|   | R. Robertson | \$400/day          |                 |                    | 2                | 800.00             |                 |                    |                   |                    |                      |                | 800.00          |
|   | M. Bindig    | \$250/day          | 2               | 500.00             | 5                | 1250.00            | 1               | 250.00             | 2                 | 500.00             | 1                    | 250.00         | 2750.00         |
|   | A. Robinson  | \$250/day          |                 |                    |                  |                    |                 |                    |                   |                    | 1                    | 250.00         | 250.00          |
| <b>Travel (mob/demob)</b>                   | B. Harris    | \$225/day          |                 |                    | 2                | 450.00             |                 |                    |                   |                    | 1                    | 225.00         | 675.00          |
|   | R. Robertson | \$300/day          |                 |                    | 2                | 600.00             |                 |                    |                   |                    |                      |                | 600.00          |
|   | A. Robinson  | \$188/day          |                 |                    |                  |                    |                 |                    |                   |                    | 1                    | 188.00         | 188.00          |
| <b>Food &amp; Accomodation</b>              |              | \$35/man/day       | 2               | 70.00              | 13               | 455.00             | 1               | 35.00              | 2                 | 70.00              | 3                    | 105.00         | 735.00          |
| <b>Truck</b>                                | M. Bindig    | \$75/day           | 2               | 150.00             | 2                | 150.00             | 1               | 75.00              | 2                 | 150.00             |                      |                | 525.00          |
| <b>Truck</b>                                | B. Harris    | \$100/day          |                 |                    | 4                | 400.00             |                 |                    |                   |                    | 2                    | 200.00         | 600.00          |
| <b>4-Wheeler</b>                            | M. Bindig    | \$80/day           | 2               | 160.00             | 5                | 400.00             | 1               | 80.00              | 2                 | 160.00             |                      |                | 800.00          |
| <b>4-Wheeler</b>                            | B. Harris    | \$75/day           |                 |                    | 4                | 300.00             |                 |                    |                   |                    |                      |                | 300.00          |
| <b>2 Snowmachines</b>                       | B. Harris    | \$75/day           |                 |                    |                  |                    |                 |                    |                   |                    | 4                    | 300.00         | 300.00          |
| <b>Snowmachine</b>                          | M. Bindig    | \$80/day           |                 |                    |                  |                    |                 |                    |                   |                    | 1                    | 80.00          | 80.00           |
| <b>Trailer</b>                              |              | \$50/day           |                 |                    |                  |                    |                 |                    |                   |                    | 2                    | 100.00         | 100.00          |
| <b>Fuel</b>                                 |              |                    |                 | 50.00              |                  | 250.00             |                 | 50.00              |                   | 50.00              |                      | 250.00         | 650.00          |
| <b>Freight</b>                              |              |                    |                 |                    |                  | 60.00              |                 |                    |                   |                    |                      |                | 60.00           |
| <b>Samples: analyses and assays</b>         |              |                    |                 |                    |                  | 408.00             |                 |                    |                   |                    |                      |                | 408.00          |
| <b>Report and Map Preparation</b>           |              |                    |                 | 500.00             |                  | 1250.00            |                 | 250.00             |                   | 500.00             |                      | 500.00         | 3000.00         |
| <b>Total</b>                                |              |                    |                 | <b>1430.00</b>     |                  | <b>7373.00</b>     |                 | <b>740.00</b>      |                   | <b>1430.00</b>     |                      | <b>2748.00</b> | <b>13721.00</b> |

## **APPENDIX III**

### **SAMPLE DESCRIPTIONS**

## Keno Lightning Property 2005 rock sample descriptions

### Sample #

|       |  |
|-------|--|
| 71930 | grey vuggy quartz on the edge of the main Caribou siderite vein structure  |
| 71931 | Caribou vein, close to the cirque edge. Brown limonite after siderite, vuggy texture, with boxworks  |
| 71932 | Caribou vein, 7 metre chip sample across massive siderite vein in bulldozer trench   |
| 71933 | Faith: float in bulldozer trench below portal of old shaft, probably from shaft dump. Siderite and quartz veining with trace galena, pyrite and some carbonaceous material in quartz veins |
| 71934 | Homestake trench #1: grab samples of quartz veining, with pyrite, arsenopyrite, galena, sphalerite   |
| 71935 | Homestake trench #1: grab samples of quartz veining, with galena, sphalerite, "grey coppers" (jamesonite, boulangerite) and pyrite   |
| 71936 | Homestake trench #1, farther west: composite grab samples from float of weathered siderite veins, galena, sphalerite, malachite staining "   |
| 71937 | Homestake "next trench": quartz vein subcrop in quartzites in trench floor, trace sericite alteration and minor amounts of weathered sulphides   |
| 71938 | Homestake "end of trench" : grab samples of float material with siderite veining   |
| 71939 | Homestake trench" #4 : grab samples of float material with siderite, sphalerite, galena  |

## **APPENDIX IV**

### **SAMPLE ANALYSES and ASSAYS**

**Eco Tech Laboratory Report AK 2005-1455**

Rock Samples

**Eco Tech Assay Certificate AK 2005-1455**

Rock Samples

**ECO TECH LABORATORY LTD.**

10041 Dallas Drive  
**KAMLOOPS, B.C.**  
 V2C 6T4

**ICP CERTIFICATE OF ANALYSIS AK 2005-1455**

**Bushmaster Exploration Services Ltd.**

P.O. Box 31293  
**Whitehorse, Yukon**  
 Y1A 5P7

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

**Attention: R. Robertson**

*No. of samples received: 12*  
*Sample Type: Rock*  
*Submitted by: R. Robertson*  
*Project Name: Keno(M.Bendig)*

**Values in ppm unless otherwise reported**

| 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  | Ti %  | U   | V  | W   | Y  | Zn     |
|-------|-------|---------|------|------|--------|-----|----|------|-------|----|-----|--------|------|-----|-------|--------|----|-------|----|-----|--------|--------|-----|-----|-------|-----|----|-----|----|--------|
| 1     | 71930 | 160     | 18.9 | 0.10 | 600    | <5  | <5 | 0.01 | 15    | <1 | 102 | 31     | 1.18 | <10 | <0.01 | 2018   | <1 | <0.01 | 2  | 160 | 1866   | 35     | <20 | <1  | <0.01 | <10 | 3  | <10 | <1 | 263    |
| 2     | 71931 | 815     | >30. | 0.46 | 3330   | 85  | <5 | 0.01 | 59    | 10 | 61  | 530    | >10  | <10 | <0.01 | 1734   | 11 | <0.01 | 20 | 410 | 3366   | 125    | <20 | <1  | <0.01 | <10 | 11 | 10  | <1 | 4576   |
| 3     | 71932 | >1000   | >30. | 0.11 | 455    | 205 | <5 | 0.12 | 294   | 14 | 38  | 2254   | >10  | <10 | <0.01 | <1     | 31 | <0.01 | 10 | <10 | >10000 | 2690   | <20 | <1  | 0.25  | <10 | 14 | 30  | <1 | 8813   |
| 4     | 71933 | 350     | >30. | 0.07 | 370    | 15  | <5 | 0.36 | 14    | 2  | 115 | 48     | 2.09 | <10 | 0.02  | >10000 | 3  | <0.01 | 14 | 540 | >10000 | 570    | <20 | 67  | 0.09  | <10 | 9  | <10 | <1 | 433    |
| 5     | 71934 | >1000   | >30. | 0.12 | >10000 | 40  | <5 | 1.60 | 387   | 17 | 85  | 328    | 8.57 | <10 | 0.75  | 1313   | <1 | <0.01 | 29 | 130 | >10000 | >10000 | <20 | 70  | <0.01 | <10 | 7  | 40  | <1 | >10000 |
| 6     | 71935 | >1000   | >30. | 0.03 | 4220   | <5  | <5 | 0.55 | 182   | 3  | 118 | 963    | 2.01 | <10 | 0.11  | 506    | <1 | <0.01 | 10 | <10 | >10000 | >10000 | <20 | <1  | <0.01 | <10 | 3  | 70  | <1 | >10000 |
| 7     | 71936 | >1000   | >30. | 0.05 | 1150   | 20  | <5 | 0.65 | >1000 | 8  | 13  | >10000 | 6.84 | <10 | 0.07  | >10000 | <1 | <0.01 | 55 | <10 | >10000 | 9220   | <20 | 31  | 0.05  | <10 | 11 | 350 | <1 | >10000 |
| 8     | 71937 | 15      | 6.1  | 0.05 | 20     | <5  | <5 | 0.04 | 1     | <1 | 152 | 11     | 0.60 | <10 | <0.01 | 327    | <1 | <0.01 | 6  | 170 | 240    | 50     | <20 | <1  | <0.01 | <10 | 2  | <10 | <1 | 131    |
| 9     | 71938 | 140     | >30. | 0.04 | 65     | 165 | <5 | 0.23 | 89    | 10 | 81  | 136    | >10  | <10 | <0.01 | <1     | 27 | <0.01 | 30 | 480 | 1736   | <5     | <20 | 186 | 0.21  | <10 | 19 | 20  | <1 | 5532   |
| 10    | 71939 | 260     | >30. | 0.05 | 80     | 90  | <5 | 0.53 | >1000 | 11 | 36  | 763    | >10  | <10 | 0.77  | <1     | <1 | <0.01 | 8  | <10 | >10000 | 200    | <20 | <1  | 0.22  | <10 | 21 | 520 | <1 | >10000 |
| 11    | 71940 | 110     | >30. | 0.05 | >10000 | 10  | <5 | 0.09 | 122   | 20 | 88  | 201    | 7.00 | <10 | <0.01 | 5923   | 4  | <0.01 | 24 | 240 | 516    | 60     | <20 | <1  | 0.01  | <10 | 4  | <10 | <1 | 2996   |
| 12    | 71941 | 40      | 5.6  | 0.11 | 1710   | 170 | <5 | 1.82 | 205   | 11 | 42  | 423    | >10  | <10 | 0.22  | >10000 | 20 | <0.01 | 4  | <10 | 124    | <5     | <20 | <1  | 0.15  | <10 | 16 | 50  | <1 | >10000 |

**QC DATA:**

**Repeat:**

|    |       |     |      |      |     |    |    |       |    |    |     |    |      |     |       |      |    |       |   |     |      |    |     |    |       |     |   |     |    |     |
|----|-------|-----|------|------|-----|----|----|-------|----|----|-----|----|------|-----|-------|------|----|-------|---|-----|------|----|-----|----|-------|-----|---|-----|----|-----|
| 1  | 71930 | 145 | 19.2 | 0.09 | 610 | <5 | <5 | <0.01 | 16 | <1 | 102 | 31 | 1.19 | <10 | <0.01 | 2050 | <1 | <0.01 | 2 | 140 | 1898 | 35 | <20 | <1 | <0.01 | <10 | 3 | <10 | <1 | 262 |
| 2  | 71931 | 795 |      |      |     |    |    |       |    |    |     |    |      |     |       |      |    |       |   |     |      |    |     |    |       |     |   |     |    |     |
| 10 | 71939 | 205 |      |      |     |    |    |       |    |    |     |    |      |     |       |      |    |       |   |     |      |    |     |    |       |     |   |     |    |     |

**Resplit:**

|   |       |     |      |      |     |    |    |      |    |    |     |    |      |     |       |      |    |       |   |     |      |    |     |    |       |     |   |     |    |     |
|---|-------|-----|------|------|-----|----|----|------|----|----|-----|----|------|-----|-------|------|----|-------|---|-----|------|----|-----|----|-------|-----|---|-----|----|-----|
| 1 | 71930 | 160 | 18.2 | 0.10 | 705 | <5 | <5 | 0.01 | 14 | <1 | 106 | 33 | 1.24 | <10 | <0.01 | 1941 | <1 | <0.01 | 4 | 140 | 1868 | 35 | <20 | <1 | <0.01 | <10 | 3 | <10 | <1 | 280 |
|---|-------|-----|------|------|-----|----|----|------|----|----|-----|----|------|-----|-------|------|----|-------|---|-----|------|----|-----|----|-------|-----|---|-----|----|-----|

**Standard:**

|        |       |     |      |  |    |     |    |      |    |    |    |    |      |     |      |     |    |      |    |     |    |    |     |    |      |     |    |     |   |    |
|--------|-------|-----|------|--|----|-----|----|------|----|----|----|----|------|-----|------|-----|----|------|----|-----|----|----|-----|----|------|-----|----|-----|---|----|
| SH13   | >1000 |     |      |  |    |     |    |      |    |    |    |    |      |     |      |     |    |      |    |     |    |    |     |    |      |     |    |     |   |    |
| GEO'05 |       | 1.5 | 1.49 |  | 55 | 150 | <5 | 1.35 | <1 | 19 | 59 | 87 | 3.74 | <10 | 0.73 | 538 | <1 | 0.03 | 29 | 640 | 24 | <5 | <20 | 53 | 0.10 | <10 | 72 | <10 | 9 | 74 |

**ECO TECH LABORATORY LTD.**

Jutta Jealouse  
 B.C. Certified Assayer

## CERTIFICATE OF ASSAY AK 2005-1455

Bushmaster Exploration Services Ltd.  
P.O. Box 31293  
Whitehorse, Yukon  
Y1A 5P7

22-Nov-05

Attention: R. Robertson

No. of samples received: 12  
Sample Type: Rock  
Submitted by: R. Robertson  
Project Name: Keno(M.Bendig)

| ET #. | Tag # | Au<br>(g/t) | Au<br>(oz/t) | Ag<br>(g/t) | Ag<br>(oz/t) | Cu<br>(%) | Pb<br>(%) | Zn<br>(%) |
|-------|-------|-------------|--------------|-------------|--------------|-----------|-----------|-----------|
| 2     | 71931 |             |              | 140         | 4.08         |           |           |           |
| 3     | 71932 | 1.36        | 0.040        | 3310        | 96.53        |           | 10.8      |           |
| 4     | 71933 |             |              | 1070        | 31.20        |           | 7.58      |           |
| 5     | 71934 | 4.99        | 0.146        | 161         | 4.70         |           | 3.62      | 1.38      |
| 6     | 71935 | 1.46        | 0.043        | 396         | 11.55        |           | 2.45      | 2.57      |
| 7     | 71936 | 17.3        | 0.505        | 4280        | 124.82       | 1.58      | 40.1      | 9.96      |
| 9     | 71938 |             |              | 82.0        | 2.39         |           |           |           |
| 10    | 71939 |             |              | 276         | 8.05         |           | 5.44      | 15.6      |
| 11    | 71940 |             |              | 36.0        | 1.05         |           |           |           |
| 12    | 71941 |             |              |             |              |           |           | 1.67      |

### QC DATA:

#### Repeat:

|   |       |      |       |     |      |  |  |  |
|---|-------|------|-------|-----|------|--|--|--|
| 2 | 71931 |      |       | 138 | 4.02 |  |  |  |
| 7 | 71936 | 17.4 | 0.507 |     |      |  |  |  |

#### Standard:

|       |      |       |      |      |      |      |      |  |
|-------|------|-------|------|------|------|------|------|--|
| OX140 | 1.88 | 0.055 |      |      |      |      |      |  |
| CU106 |      |       | 135  | 3.94 | 1.44 |      |      |  |
| PB106 |      |       | 58.8 | 1.72 | 0.62 | 0.52 | 0.84 |  |

JJ/ga  
XLS/05

ECO TECH LABORATORY LTD.

Jutta Jealouse  
B.C. Certified Assayer