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**GEOLOGICAL MAPPING REPORT**

**ON THE**

**ASH MINERAL CLAIM GROUP,**

**OSOYOOS MINING DIVISION**

**ASNOLA CREEK MAP SHEET NTS M092, H019**

**LATITUDE 49°06', LONGITUDE 120°22'.**

**MCBRIDE CREEK AREA, ASNOLA RIVER,**

**KEROMEOS B.C.,**

**CANADA**

For

**N. L. TRIBE.**

**2611 Springfield Rd.**

**Kelowna, B.C. V1X 1B9**

**Tel (250) 860 7661**

27486

**NORMAN TRIBE P.ENG.  
N. TRIBE & ASSOCIATES LTD.  
2611 Springfield Rd.  
Kelowna, B.C. V1X 1B9  
Tel (250) 860 7661  
JULY 19, 2004**

**GEOLOGICAL MAPPING REPORT**  
**ON THE**  
**ASH GROUP OF MINERAL CLAIMS**

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GEOLOGICAL SURVEY BRANCH  
ASSESSMENT REPORT

27,485

**GEOLOGICAL MAPPING REPORT**  
**ON THE**  
**ASH GROUP OF MINERAL CLAIMS**

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# **GEOLOGICAL MAPPING REPORT** **ON THE ASH GROUP OF MINERAL CLAIMS**

## ***INTRODUCTION***

### **Location and Access**

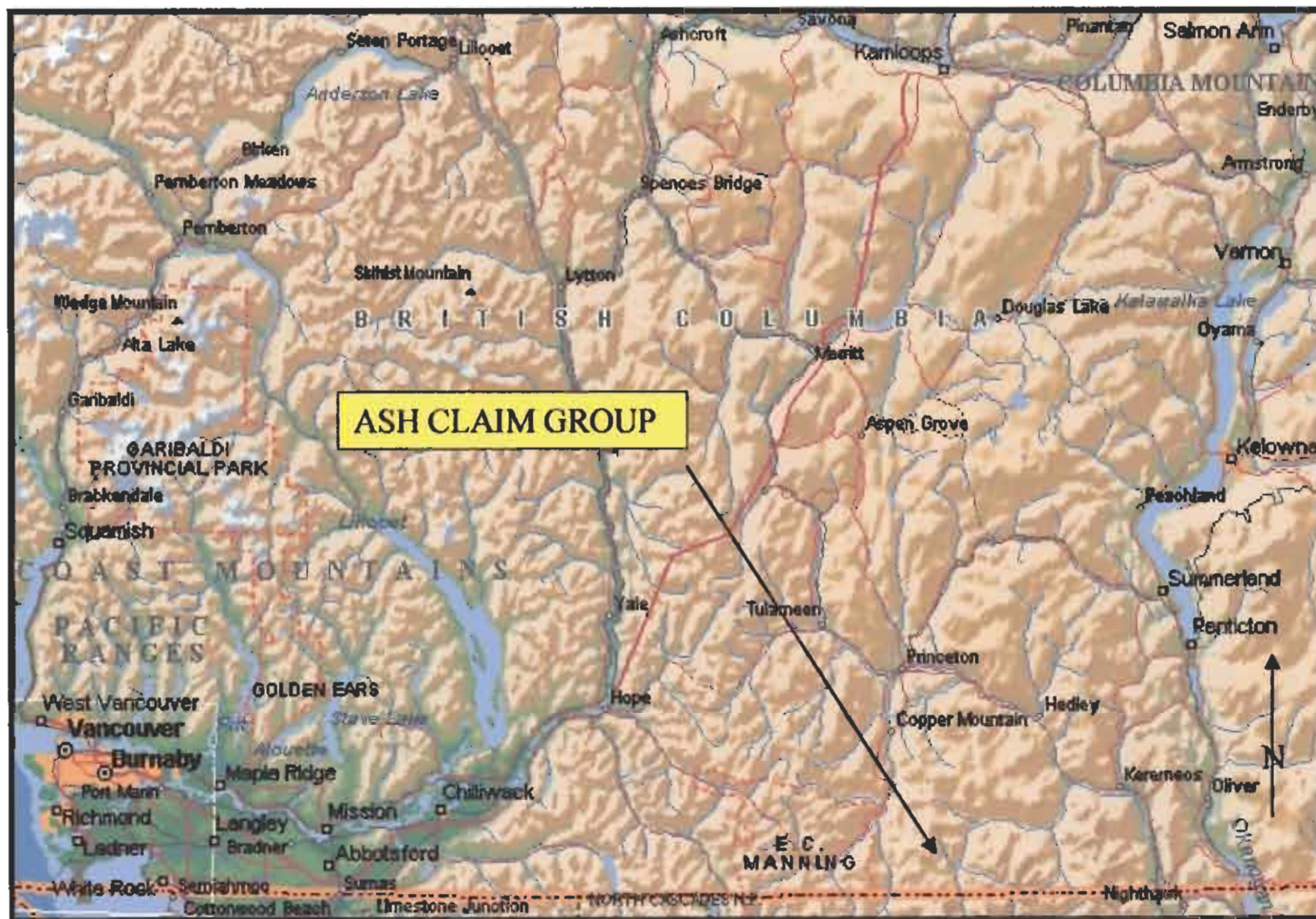
The property is located about 500 meters from the mouth of McBride Creek in the Upper Ashnola region of southern British Columbia. (Latitude 49° 06'N, Longitude 120°22' W.), and is 40 kilometers south west of the community of Keremeos, B.C.

The property is accessible by travelling west 6 kilometers out of Keremeos on Highway #3, turning onto the Cathedral Provincial Park access road, thence south 34 kilometers to the McBride Creek turn off. Proceed 0.5 kilometers up the McBride Creek Road to the property. Continue 4 kilometers up this road and several other drill access roads for 4X4 vehicle and quad access to most of the property.

The topography is a high plateau  $\pm 1500$  meters into which are cut deep canyons to a depth of 800 to 1000 meters deep. The bottoms of these canyons carry the various creeks and rivers, the Ashnola River, McBride, Young and Cool Creeks. The walls of the canyons are natural slopes or steeper, often with talus and limited vegetation on the south slopes and thick Jackpine and Spruce on the north slopes.

### **History**

The Ash prospect was discovered by Kennco Explorations (Western) Ltd. in 1960. The property has a history of work in the mid to late 1970's when Kennco Exploration Inc. and International Prism Explorations Ltd. did considerable geophysical surveys, stream sediment sampling, geochemistry, rock and soils sampling, mapping, trenching and 5979 metres drilling. There are numerous reports on this work on file in the archives of the Ministry of Energy and Mines in Vancouver, B.C. The deposit was extensively explored by various operators up to 1979.



LOCATION MAP - ASH CLAIM GROUP,



OSOYOOS MINING DIVISION SOUTH CENTRAL BRITISH COLUMBIA

Figure #1

### **Economic and General Assessment**

The claims cover most of a large copper, molybdenum, gold, porphyry system. The grades discovered to date are low, however with the price of all three of the metals of note in the deposits increasing considerably over the past year the economics have improved to the point where the deposit is of significant interest. As with many porphyry deposits the tonnage of significant mineralization in the system is large and the economics of scale are available.

### **New Work Performed**

Work completed was outcrop mapping, with 2.1 kilometers of traverse completed in this year's program. Geological mapping on a scale of 1:1000 with GPS, compass and topofil control.

### **Objective and Scope**

Past work has provided excellent geological, geophysical and geochemical data on the property. However it was noted early on, that the study of gossaneous limonites has been neglected. An attempt was therefore made to map out the limonites in the west central portions of the system where earlier workers and simply tagged the limonites as "live". Good references are available for this work particularly "Interpretation of Leached Outcrops" by Roland Blanchard and a color chart is available through the Geological Society of America "Rock Color Chart" Goddard et al., to quantize the colors present in the outcrops. Outcrop mapping was conducted along the road ways in the upper portion of the deposit with particular reference to colors of the limonites present. In all 2.1 km. of mapping was completed in this year's mapping program.

Variances were noted in the limonites particularly with respect to the "RY" series of colors and the "R" series, with the latter being of interest and probably indicating the more favorable rocks for base minerals, particularly copper.

A lot more mapping will be required to complete this study and to form any conclusions.

### **General Observations**

The mineralization is ubiquitous over a large area consisting of pyrite, chalcopyrite, molybdenite, in a quartz kaolin gangue with lesser sericite and sporadic carbonate.

The mineralization forms a horseshoe shaped halo of pyrite within the phyllic alteration zone containing 2-10% pyrite. This halo is 3.5 kilometers across. The better copper grades occur in association with the stronger silicification generally about 600 meters in from the rim of the halo.

The focus of this work was concentrated on the area referred to in the past as the "live limonite" area in the northwest quadrant of the system, with emphasis on a better definition of the limonites using the U.S Geological Association Color Charts to define the limonites by color and reference to Dr. Roland Blanchard's work on leached outcrops.

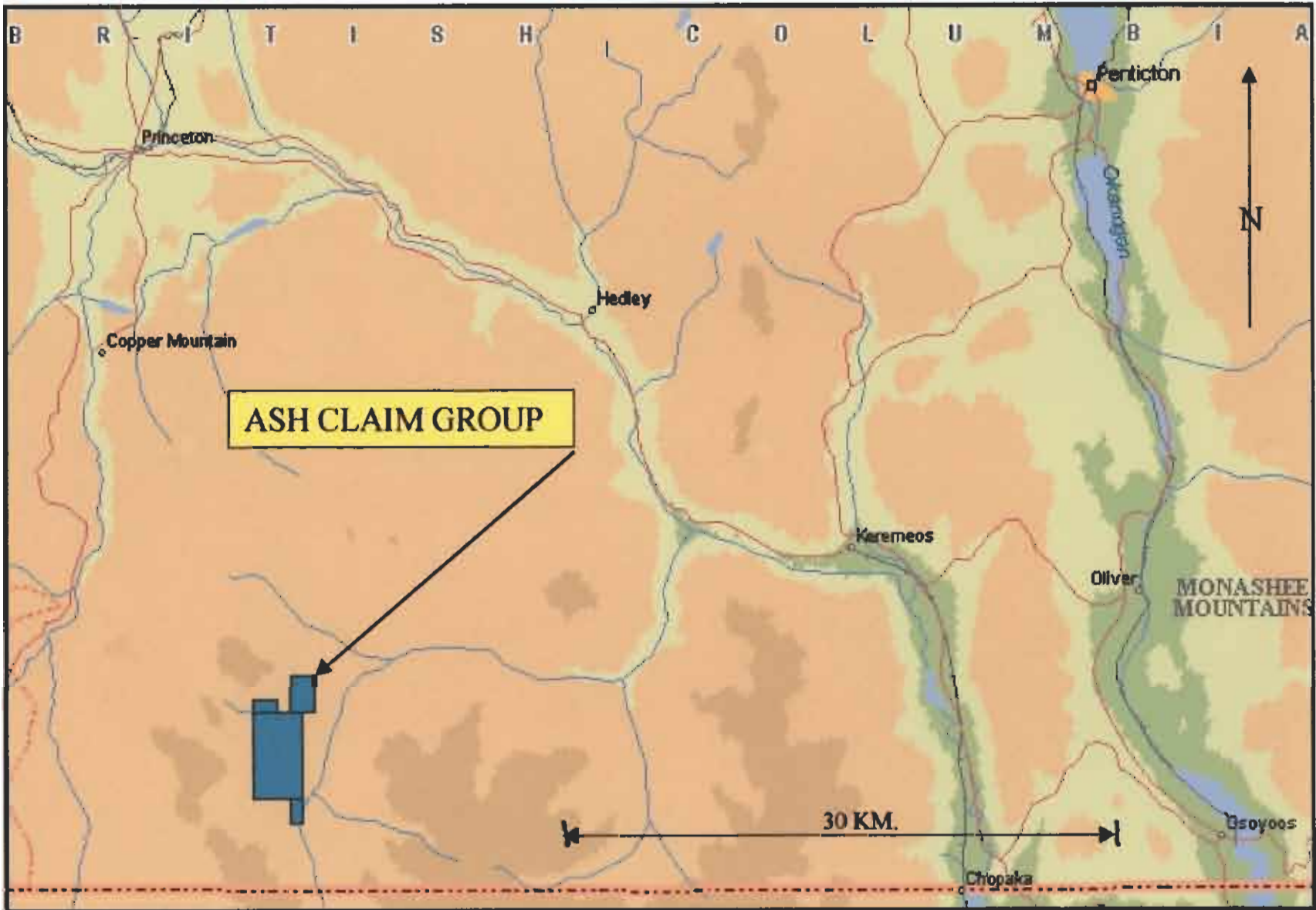
### ***Conclusions***

This property is located in the heart of a major porphyry system. There is potential here for a large copper, molybdenum, gold mining operation. Values found to date are marginal but many excellent targets within the system remain to be tested. The emphasis in the past has been on the copper content of the system with little consideration given to the gold values. The nearby Copper Mountain deposits contain significant gold values which contributed to the profitability of that operation. That fact that the better gold values on the Ash property are associated with the potash and silica alteration rather than the sulphide content would lead one to believe that much of the intensely potassium altered rock was not assayed for gold. Hence there is a reasonable possibility that there is good gold potential untested within the system. Recent increases in the price of gold and molybdenum on the world markets lend a further speculative aspect to this property.

The mapping done in this years program is a work in progress and much more will be required before any conclusions can be drawn. It is believed that the

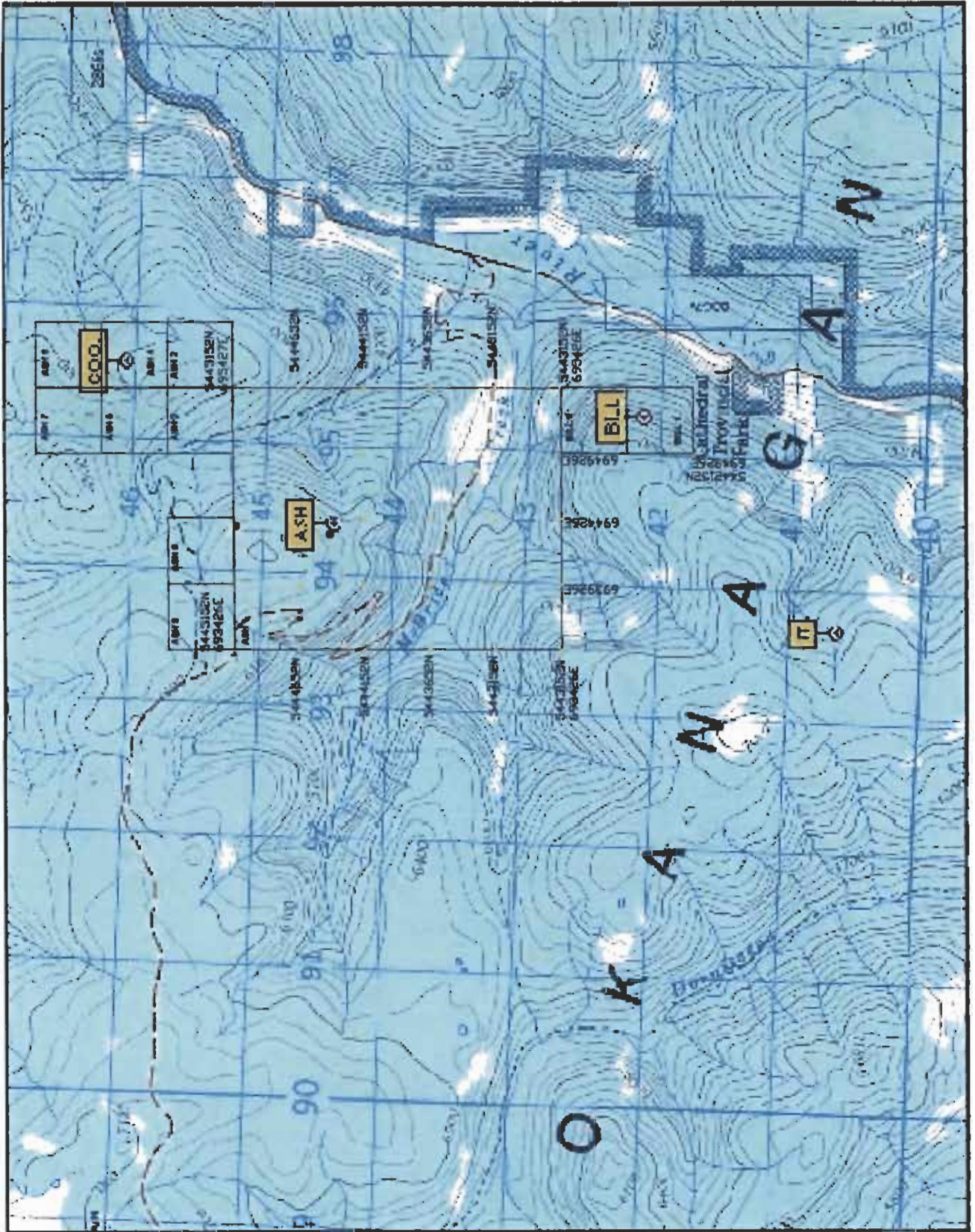
definition of the limonites will assist in understanding the geology and locating further drilling targets.





**ASH PROPERTY - LOCATION MAP KEREMEOS AREA**  
OSOYOOS MINING DIVISION, SOUTH CENTRAL BRITISH COLUMBIA

**Figure #2**



N. TRIBE & ASSOCIATES LTD.  
ASHNOLA PROPERTY

**CLAIM MAP  
ASH GROUP**

ASHNOLA AREA, 0707530 HONKING DIVISION, SOUTH WESTERN BRITISH COLUMBIA

DATE:- JULY 2004      DRAWN BY:- N.L.T.

SCALE:- 1:50,000      FILE:- ASS RPT ASH CLM

N. TRIBE & ASSOCIATES LTD.

Figure #3

## STATEMENT OF COSTS

N. Tribe P. Eng. Geological Engineering team  
including (T. Tribe, field assistant) (\$500/day)

1 days travel

5 days mapping

4 days reporting

Total 10 days at \$600/day \$ 6,000

Vehicle 4X4 pickup 6 days at \$75/day \$ 450

Misc. equip chain saw GPS etc. 6 days at \$40/day \$ 240

Quad 4x4, 6 days at \$60 \$ 360

Supplies \$ 150

Assays \$ 000


Accommodation and meals \$ 825

Subtotal \$ 7,875

Overhead @ 10% \$ 788

-----  
\$ 8,663  
-----

Respectfully submitted this 19<sup>th</sup> day of July, 2004.



Norman L. Tribe, P. Eng.

### ***Qualifications of Author***

I, NORMAN LLOYD TRIBE, of the City of Kelowna, Province of British Columbia, hereby certify as follows:


I am a Consulting Geologist with an office at 2611 Springfield Road, Kelowna, B.C., V1X 1B9.

I am a registered Professional Engineer of the Province of British Columbia. I graduated with a degree of Bachelor of Applied Science from the University of British Columbia in 1964.

I have practiced my profession for thirty seven years.

This report dated July 19, 2004 is based on data collected from published sources, and by the author while intermittently prospecting and mapping on the property during the periods from July 9 through July 25, 2003 and June 26 until July 11, 2004 and interpretive review of existing data intermittently during the period from July 9, 2003, through July 11, 2004.

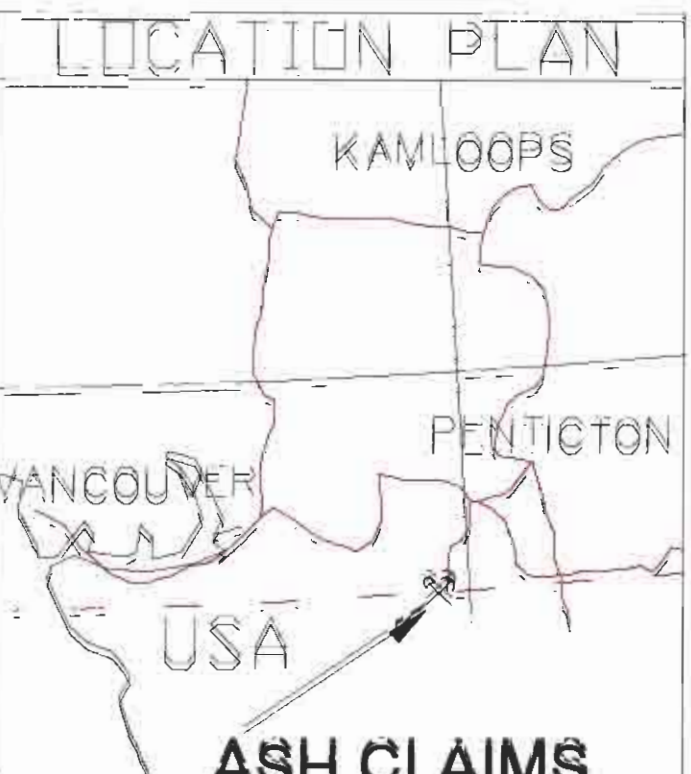
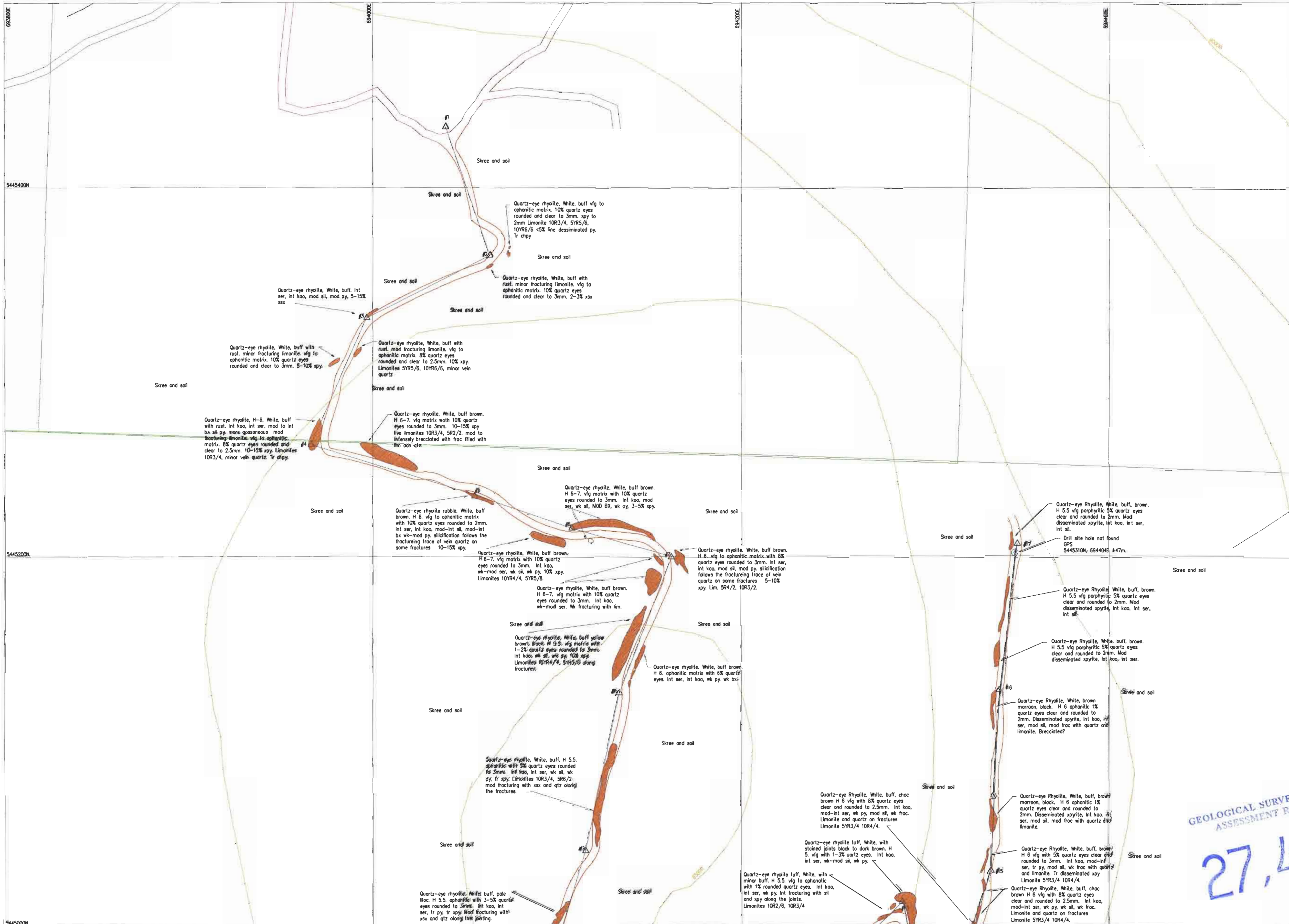
Dated at Kelowna, Province of British Columbia this 19th. day of July 2004.



Norman Lloyd Tribe, P. Eng.  
Consulting Geologist.

### **Qualifications of Assistant.**

T. Tribe has worked as field assistant for N. Tribe & Associates Ltd. since 1985, and has a total of 19 years field experience in various jobs related to mining exploration.



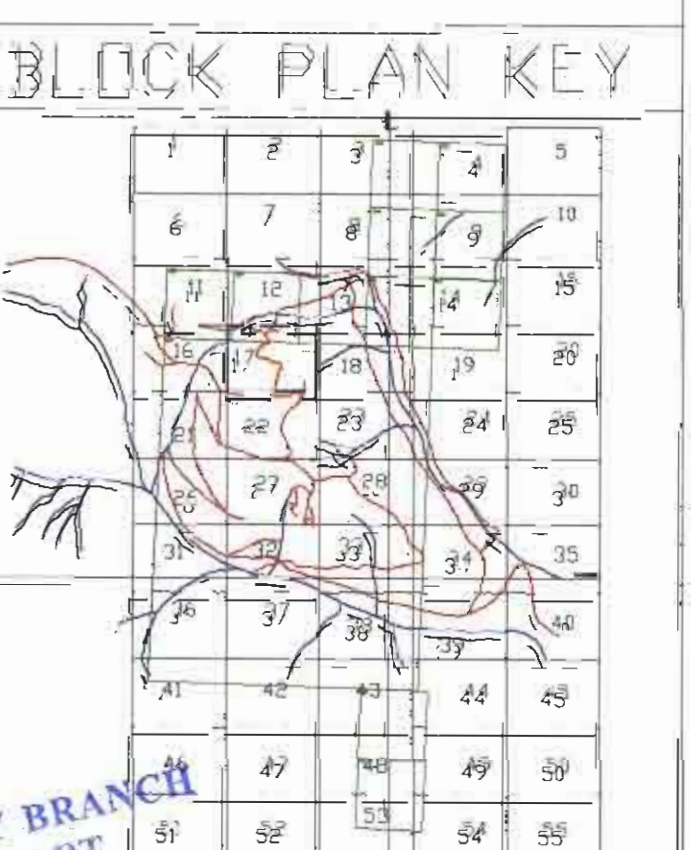
### ASH CLAIMS

#### GEOLOGY LEGEND

1	DIATREME
2	QUARTZ MONZONITE
3	QUARTZ PORPHYRY
4	RYHOLITE
5	MAGNETITE CORE
6	BIORITE
7	LIVE LIMONITE
8	MAPPED SKREE
9	ROAD
10	MAPPED ROAD
11	FAULT
12	STRUCTURE STRIKE AND DIP
13	CHANNEL SAMPLE LOCATION
14	CREEK / BRYWASH
15	DRILL HOLES LOCATE BY GPS
16	CLAIM BOUNDARY

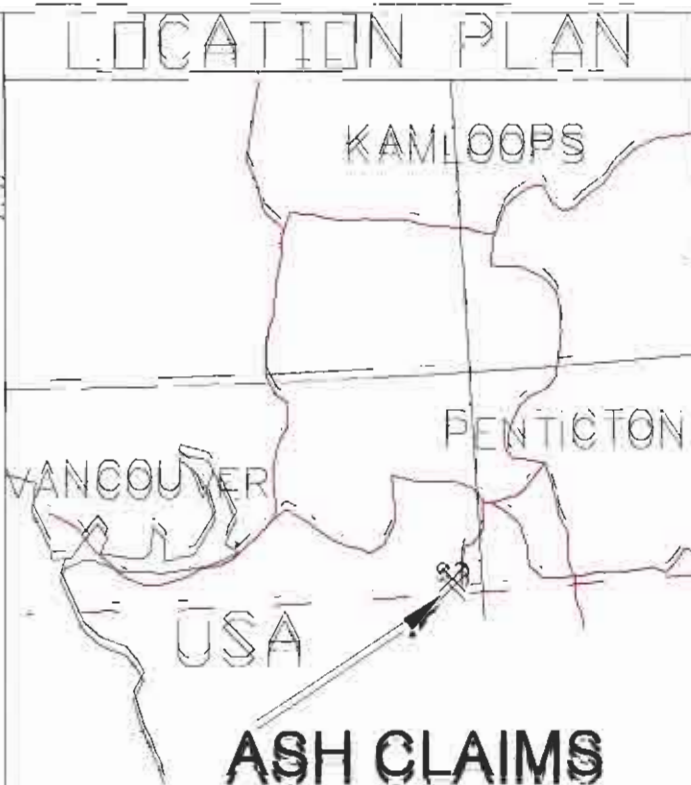
#### ABBREVIATIONS

sil = siliceous  
 py = pyrite or pyritized  
 xpy = limonite after pyrite  
 epy = chalcopyrite  
 xchpy = limonite after chalcopyrite  
 hcp = hematite  
 ser = sericitized  
 ssp = subvolcanic  
 qtz = quartz  
 bx = biotite  
 dis = disseminated  
 frac = fracture or fracturing  
 wk = weak or weakly  
 mod = moderate or moderately  
 int = intense or intensely  
 tr = trace  
 lg = fine grained  
 vfg = very fine grained (0.5mm)  
 por = porphyry  
 ser = sericite  
 mag = magnetite  
 chp = chalcopyrite  
 rhy = rhyolite  
 ls = limonite  
 xss = exsolved  
 stn = survey station  
 10YR6/6 = USGS color chart code  
 #9 = traverse control point



GEOLOGICAL SURVEY BRANCH  
 ASSESSMENT REPORT  
 N. TRIBE & ASSOCIATES LTD.  
 ASHNOLA PROJECT  
 GEOLOGY  
 BLOCK PLAN #17  
 DATE: JUNE, 2004  
 SCALE: 1:10,000  
 DRAWN BY: NLT  
 FILE: ASHP17  
 N. TRIBE & ASSOCIATES LTD.

27,486



- ### GEOLOGY LEGEND
- 1 DIATROME
  - 2 QUARTZ MONZONITE
  - 3 QUARTZ PORPHYRY
  - 4 RHYOLITE
  - 5 MAGNETITE CORE
  - 6 DIORITE
  - 7 LIVE LIMONITE
  - 8 MAPPED SKREE
  - ROAD
  - MAPPED ROAD
  - FAULT
  - STRUCTURE STRIKE AND DIP
  - CHANNEL SAMPLE LOCATION
  - EUREK / BRYWASH
  - BRILL HOLES LOCATE BY GPS
  - CLAIM BOUNDARY

- ### ABBREVIATIONS
- sil = siliceous
  - py = pyrite or pyritized
  - spyl = limonite after pyrite
  - chpy = chalcopyrite
  - schpy = limonite after chalcopyrite
  - ked = kaolinitized
  - ser = sericitized
  - soil = silicified
  - qtz = quartz
  - su = sulphides
  - dis = disseminated
  - fract = fracture or fracturing
  - we = weak or weakly
  - mod = moderate or moderately
  - int = intense or intensely
  - tr = trace
  - fg = fine grained
  - vg = very fine grained <0.5mm
  - por = porphyry
  - st = stibnite
  - mon = monzonite
  - mg = magnetite
  - di = diorite
  - ry = rhyolite
  - li = limonite
  - exs = exsulfidation
  - stn = survey station
  - 10YR5/6 = USGS color chart code
  - #9 = traverse control point



Quartz-eye Rhyolite, white, buff, brown. H-6 med - fine gr. 2% quartz eyes clear and rounded to 3mm. Int sil, Int sil, lim on joints and in spots. gossaneous 2-5% fine grained fresh pyrite. 10YR5/4, 5YR5/6, 10YR6/6.

Old Camp Site

Old Drill Pads Pole Construction

Quartz-eye Rhyolite, white, buff, brown. H5 med gr. 3% quartz eyes clear and rounded to 3mm. Int koo, Int sil, lim on joints and in spots. gossaneous 10YR5/6, 5YR4/4, 10R4/6.

Quartz-eye Rhyolite, white, buff, brown. H5.5 vlg 3% quartz eyes clear and rounded to 3mm. Int koo, Int sil, lim on joints. 5YR5/6, 10YR6/6.

Quartz-eye Rhyolite Skree, white, buff, brown. H5 med gr. 3% quartz eyes clear and rounded to 3mm. Int koo, Int sil, mod sil, good lim on joints. 5YR5/6.

Old road overgrown.

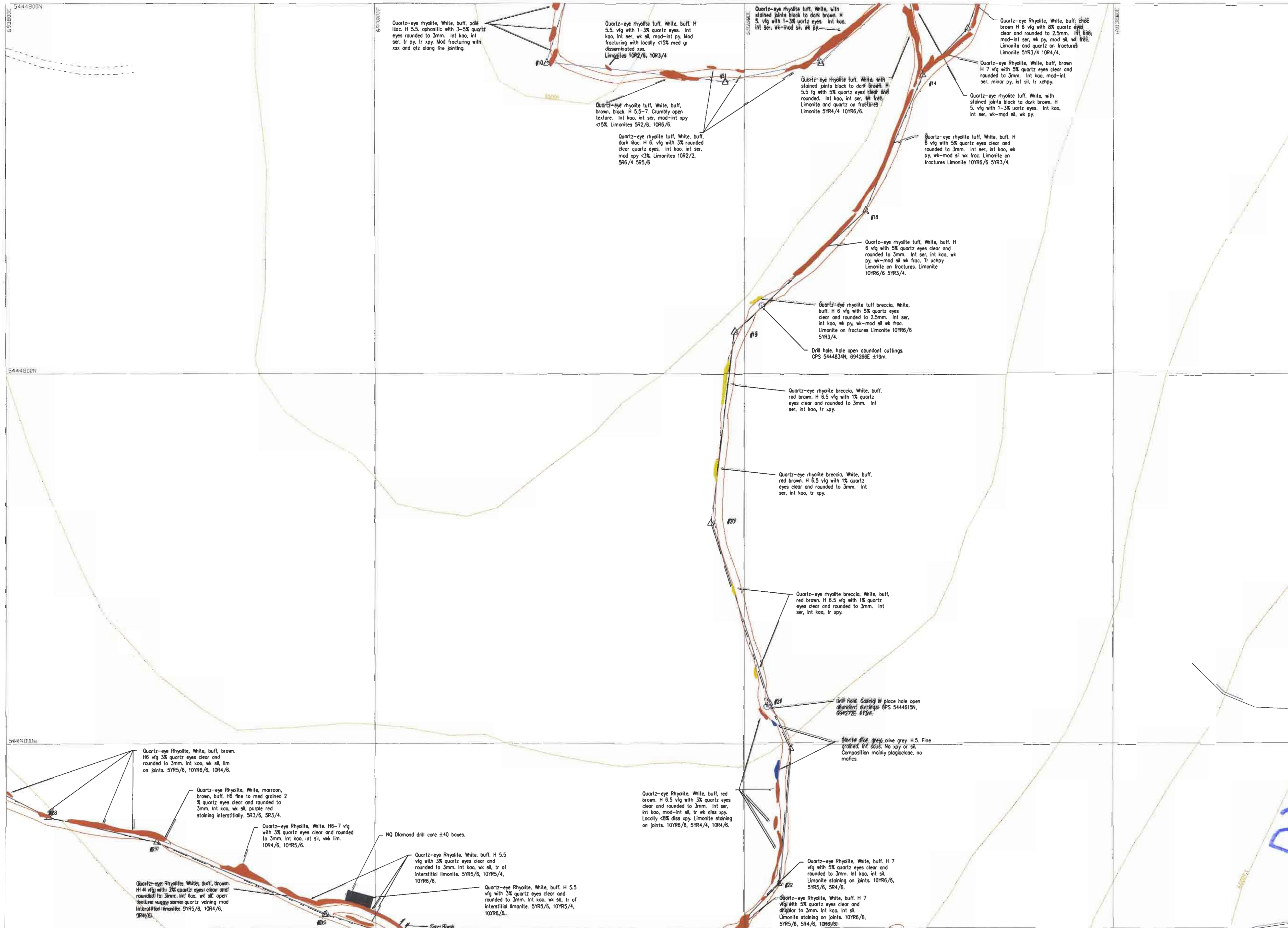
Quartz-eye Rhyolite, white, buff, brown. H6.5 vlg 3% quartz eyes clear and rounded to 3mm. Int koo, Int sil, lim on joints. 5R2/6, 5R3/4.

Quartz-eye Rhyolite, white, buff, brown. H6 vlg 3% quartz eyes clear and rounded to 3mm. Int koo, Int sil, lim on joints. 5YR4/6, 10R1/6, 10R4/6.

Quartz-eye Rhyolite, white, buff, brown. H6 vlg 3% quartz eyes clear and rounded to 3mm. Int koo, Int sil, lim on joints. 5YR5/6, 10YR6/6, 10R4/6.

Quartz-eye Rhyolite, white, buff, brown. H6 vlg 3% quartz eyes clear and rounded to 3mm. Int koo, Int sil, lim on joints. 5YR4/6, 10R1/6, 10R4/6.

27,486



**LOCATION PLAN**

**ASH CLAIMS**  
GEOLOGY LEGEND

**LEGEND**

- QUARTZ MONZONITE
- QUARTZ PORPHYRY
- HYDROLITE
- MAGNETITE CORE
- MAGNETITE
- LIVE LIMONITE
- MAPPED SKREE
- RBAB
- MAPPED RBAB
- FAULT
- STRUCTURE STRIKE AND DIP
- CHANNEL SAMPLE LOCATION
- CREEK / BRYWASH
- DRILL HOLES LOCATE BY GPS
- CLAIM BOUNDARY

**ABBREVIATIONS**

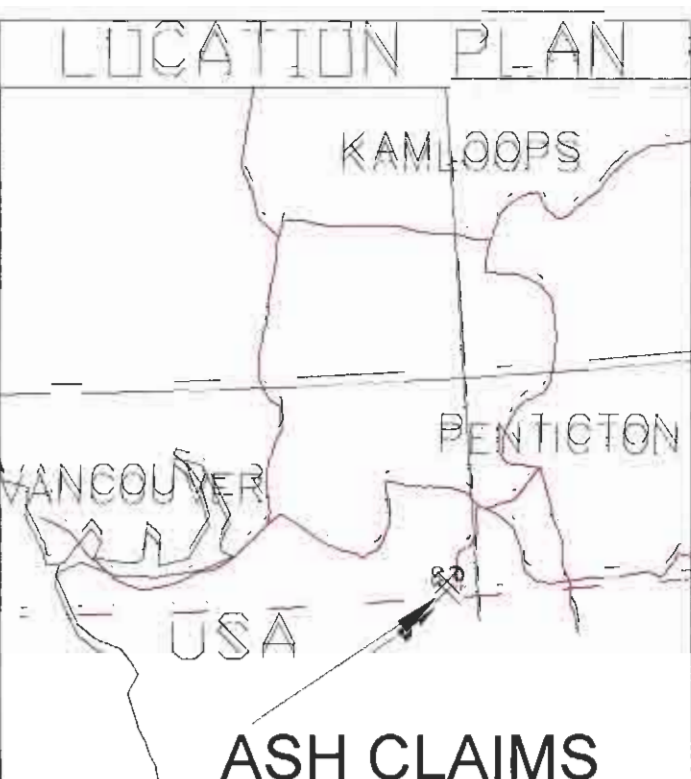
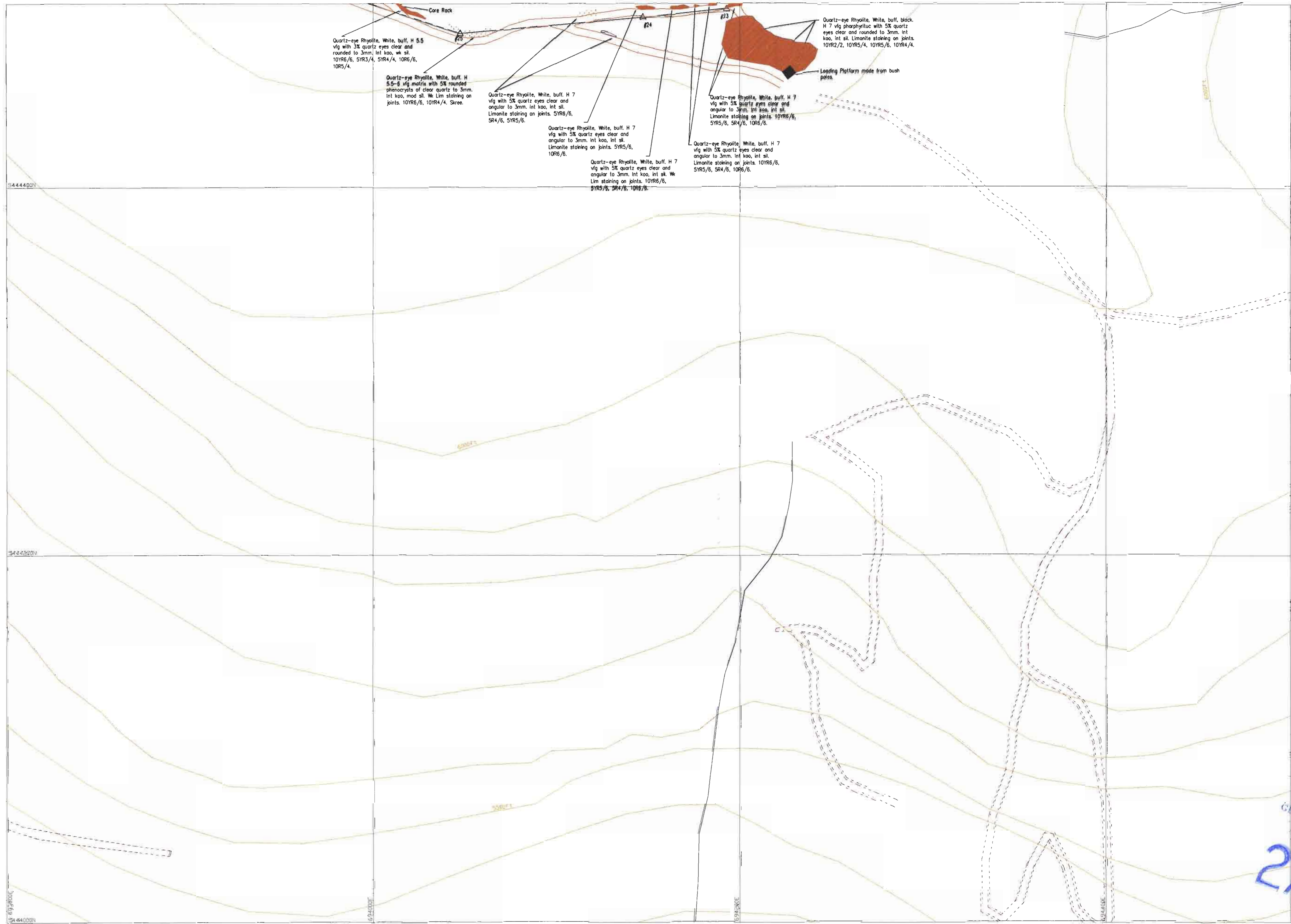
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 xchpy = limonite after chalcopyrite  
 ead = epidotized  
 ser = sericitized  
 saos = saurosericitized  
 itz = quartz  
 px = pyroxenes  
 dis = disseminated  
 frac = fracture or fracturing  
 wk = weak or weakly  
 rdb = aggregate of magnetite  
 int = intense or intensely  
 fr = fracture  
 vfg = fine grained < 1mm  
 vfg - very fine grained < 0.5mm  
 py = porphyry  
 op = oligoclase  
 an = anorthite  
 mg = magnetite  
 psz = pyroxene  
 ps = plagioclase  
 qz = quartz  
 kpy = limonite  
 xz = zircon  
 sta = survey station  
 10YR/6 = USGS color chart code  
 # = traverse control point

**BLOCK PLAN KEY**

**27-486**

**N. TRIBE & ASSOCIATES LTD.**  
**ASH CLAIMS PROJECT**  
**GEOLOGY**  
**BLOCK PLAN #22**

DATE: JUNE 2004 DRAWN BY: NTL  
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**N. TRIBE & ASSOCIATES LTD.**

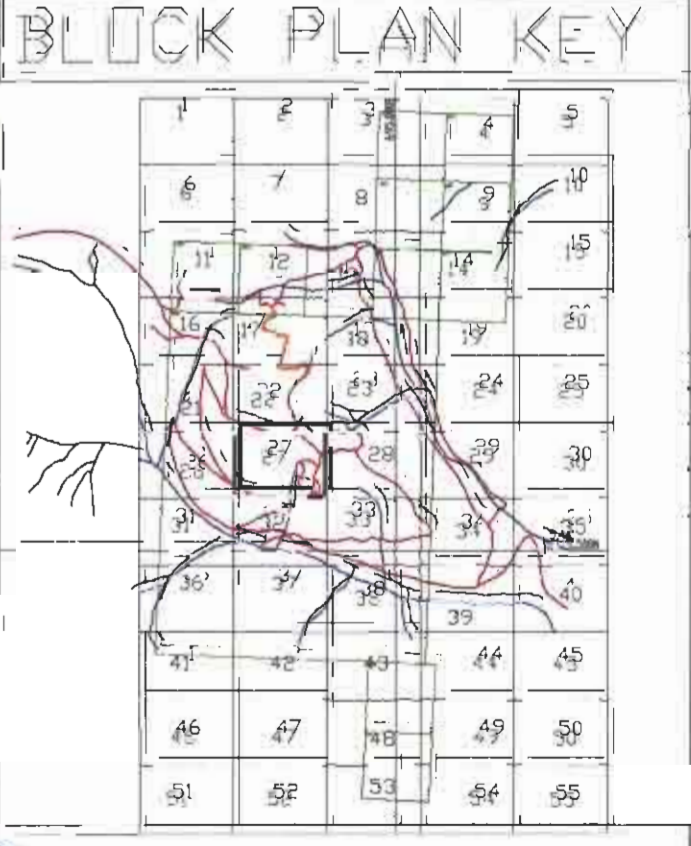


### GEOLOGY LEGEND

1	DIATREME
2	QUARTZ MONZONITE
3	QUARTZ PORPHYRY
4	RHYOLITE
5	MAGNETITE CORE
6	BIOIRITE
7	LEVE LIMONITE
8	MAPPED SKREE
9	ROAD
10	MAPPED ROAD
11	FAULT
12	STRUCTURE STRIKE AND DIP
13	CHANNEL SAMPLE LOCATION
14	CREEK / DRY WASH
15	BHILL HOLES LOCATE BY GPS
16	CLAIM BOUNDARY

### ABBREVIATIONS

sil = silica or siliceous  
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 xcpy = limonite after chalcopyrite  
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 scp = sericitized  
 sauz = saussuritized  
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 rpy = rhyolite  
 qor = quartz  
 moz = monzonite  
 mag = magmatic  
 dia = diatreme  
 rhy = rhyolite  
 lim = limonite  
 stx = survey station  
 sta = survey station  
 10YR6/6 = USGA color chart code  
 #9 = traverse control point



Geotechnical

**N. TRIBE & ASSOCIATES LTD.**  
 ASHQLA PROJECT

**27**  
**409**

DATE: 11/11/2004 11:00 AM  
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