Regional Geologist, Kamloops **Date Approved:** 2005.08.08 **Off Confidential:** 2005.12.17

ASSESSMENT REPORT: 27697 **Mining Division(s):** Similkameen

Property Name: Elk

Location:

NAD 27	**Latitude:** 49 50 00	**Longitude:** 120 18 56	**UTM:**	10	5523338	693045
NAD 83	**Latitude:** 49 50 00	**Longitude:** 120 19 00	**UTM:**	10	5523554	692959
NTS:	092H16W					
BCGS:	092H089					

Camp: 012 Nicola Belt

Claim(s): Elk 21, Siwash North Mineral Lease

Operator(s): Almaden Minerals Limited
Author(s): Jakubowski, W.J.

Report Year: 2005

No. of Pages: 561 Pages

Commodities Searched For:

General Work Categories: DRIL, GEOP, GEOL, GEOC, PHYS

Work Done:

Drilling
DIAD Diamond surface (44 hole(s);NQ) (10265.0 m) No. of maps : 21 ; Scale(s) : 1:500, 1:1500, 1:2000
Geochemical
SAMP Sampling/assaying (987 sample(s);)
Elements Analyzed For : Gold, Multielement
Geological
PETR Petrographic (2 sample(s);)
Geophysical
MAGG Magnetic, ground (15.8 km;)
Physical
TREN Trench (1 trench(es);) (40.0 m)

Keywords:
Triassic, Osprey Lake Batholith, Nicola Group, Otter Intrusions, Andesites, Granodiorites, Quartz monzonites

Statement Nos.:
3222001

MINFILE Nos.:
092HNE096, 092HNE041, 092HNE061, 092HNE295

Related Reports:
04525, 16644, 18511, 19489, 19835, 21443, 22368, 24374, 26194, 26416, 27150, 27397

2004 DIAMOND DRILLING and GEOPHYSICS REPORT
SIWASH GOLD MINE AREA
ELK PROPERTY

Similkameen Mining Division
Siwash Lake Area, British Columbia
NTS: 92H/16W; Lat. 49°50'N, Long. 120°19'W

VOLUME I : TEXT, TABLES, FIGURES & APPENDICES

This report consists of three volumes:
Volume I: Text, Tables, Figures & Appendices
Volume II: Diamond Drill Logs
Volume II: Plates 1 to 21

May, 2005

By
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Report Preparation: Original + 4 copies

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1.0 SUMMARY AND CONCLUSIONS

The Elk property consists of 83 contiguous mineral claims comprising 492 units located 40 kilometres west of Peachland, B.C., in the Similkameen Mining Division (NTS: 92H-16W). Initial staking was undertaken in November 1986 (160 units) with additions in 1987 (60 units), 1988 (32 units) and 1989 (199 units). A block comprising 72 units was optioned from Mr. Donald Agur of Summerland, B.C. in October, 1988. Claim acquisition and subsequent work were conducted by Cordilleran Engineering Ltd. for Fairfield Minerals Ltd. until April 1995 when Fairfield assumed operations. Placer Dome Inc. entered into an option agreement on the property in March 1988 and withdrew in March 1991. Fairfield Minerals merged with Almaden Resources Corporation in February 2002 and the claims were transferred to the amalgamated company Almaden Minerals Ltd. Almaden retains 100% interest.

The Elk claims cover forested, gently rolling hills with fair to poor bedrock exposure. The property is accessible by paved highway, 50 km from Westbank, B.C., or 50 km. from Merritt, B.C.

Work conducted on the property from 1986 to 1991 consisted of geological mapping, prospecting, linecutting, soil sampling, geophysics, excavator trenching, diamond drilling and road construction. During the 1992 to 1994 field seasons open pit and underground mining extracted 1,600,406 grams (51,460 ounces) of gold from the Siwash North vein system. Reverse circulation drilling, underground diamond drilling, reclamation, road construction, water sampling and aerial photography were also undertaken during this period. Surface and underground diamond drilling programs were carried out in the Siwash Mine area from 1994 to 1996 to define the resource. Exploration surface drilling was also carried out during the 1995 and 1996 field seasons to test vein targets between the Siwash mine site and the South Showing area 2.5 kilometres to the south. Limited prospecting and environmental monitoring were undertaken from 1997 to 1999. Surface diamond drilling totaling 1413.96m in 12 holes was completed on the Siwash Mining lease during 2000 testing the B, WD and Gold Creek West (GCW) zones. A trenching program was carried out in 2001 in the Siwash East Area consisting of six trenches totaling 202 meters. A 26 hole surface diamond drill program was undertaken in 2002 for a total of 4995.67m testing the B, WD, GCW and Bullion Creek zones. During the 2003 field season a 6570 meter, 30 hole, diamond drill program was carried out in the Siwash North area testing the WD zone.

The property is underlain by the Triassic Nicola Group volcano-sedimentary assemblage on the west and by granitic rocks of the Jurassic Osprey Lake Batholith on the east. Feldspar porphyry stocks of the Upper Cretaceous Otter Intrusions cut both of these groups. Andesite dykes intrude all of the above units and are interpreted to be of Tertiary Age.

Gold-silver mineralization on the Elk property is hosted by pyritiferous quartz veins and pyritiferous altered granite. The mineralized features generally trend northeasterly and are thought to be Late Cretaceous or Tertiary in age. To date, mineralization has been located in eight areas of the Elk property: Siwash North, Siwash East, South Showing, Discovery Showing, Lake Zone, End Zone, Great Wall Zone and Elusive Creek.

A new resource calculation was completed by Giroux Consultants Ltd. in May of 2004 as follows:

Table 1	Measured and Indicated Resource				Inferred Resource		
Area	Gold Cut off Grade	Tonnes	Gold Grade (g/t)	Contained Ounces Gold	Tonnes	Gold Grade (g/t)	Contained Ounces Gold
B Flat Vein	7 g/t	19,100	26.70	16,400	500	7.74	100
B Steep Vein	7 g/t	39,700	54.50	69,600	53,300	19.93	34,200
B East Vein	7 g/t	2,800	19.43	1,700	25,800	14.98	12,400
WD Vein	7 g/t	42,600	29.82	40,800	98,700	14.69	46,600
1.0 cut off open pit	1.0 g/t	564,100	4.361	79,100	1,138,900	3.126	114,500
Total		**668,300**	**9.66**	**207,600**	**1,317,200**	**4.91**	**207,800**

During the 2004 field season a 10,265 meter, 44 hole, diamond drill program was carried out in the Siwash North area testing the WD, B and BC zones. A differential GPS survey of claim posts was undertaken to accurately locate the claims in preparation for MTO, the computer based claim acquisition system initiated in January 2005. A ground magnetometer survey was carried out over the Siwash East area immediately to the east of the mine site and drill grid. A 40m section of road cut in the Siwash East area was mapped and sampled as a trench.

The results of exploration on the Elk Property are extremely encouraging. Potential for the definition of additional gold reserves in the immediate mine area remains strong in the B, WD vein and Bullion Creek structures. Promising vein structures are present in the Siwash East area and Siwash Lake area, and geophysical and geochemical anomalies in the Elk South area with similar signatures have yet to be tested. Excellent access to services is provided by the Okanagan Connector highway which passes two km north of the Siwash mine. Continued aggressive exploration is warranted to fully define the extent of this gold resource.

2.0 RECOMMENDATIONS

The following exploration program is recommended:

- Drill five holes in the WD zone to the south and west of the existing grid to expand the present inferred resource.
- Drill nineteen holes in the WD zone to fill in the grid to 25m sections to confirm the existing resource.
- Drill four deep holes to the west of the the existing DeepB grid to test the continuity and grade at depth.
- Drill four holes in the Siwash East area to test the continuity of mineralized quartz veins exposed by trenching.
- Drill two holes in the Bullion Creek structure to the east of the existing holes to determine the orientation and extent of the known mineralization.
- Drill four holes in the Siwash Lake zone to test for continuity of structure and grade to the east of the present drilling.
- Drill four holes in the Elusive Creek zone to test for porphyry style mineralization.

Respectfully submitted

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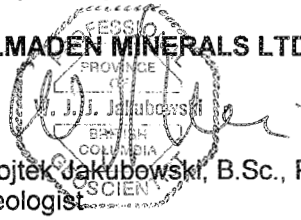
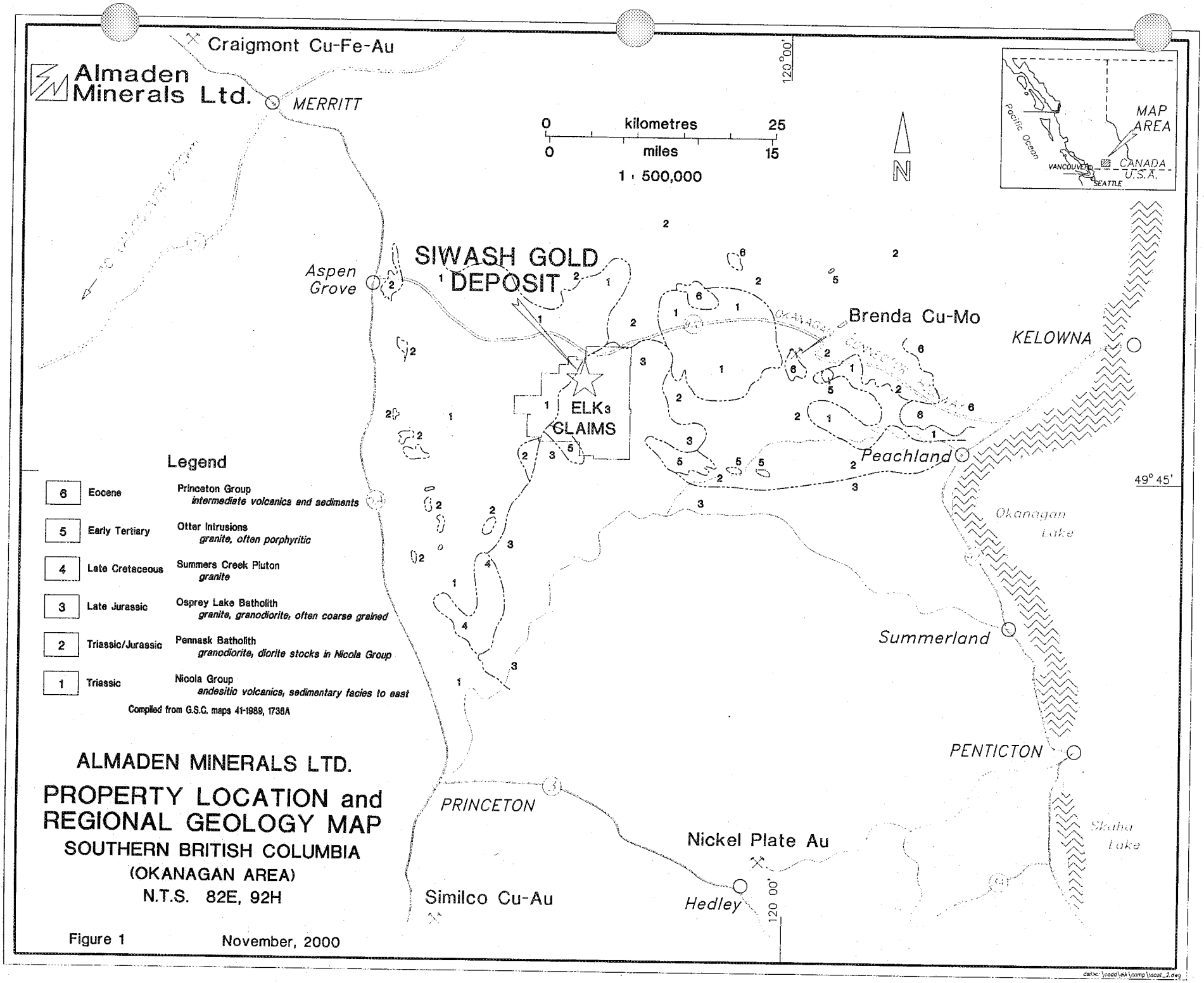


Wojtek Jakubowski, B.Sc., P.Geo.
Geologist


Almaden Minerals Ltd.
Craigmont Cu-Fe-Au
MERRITT
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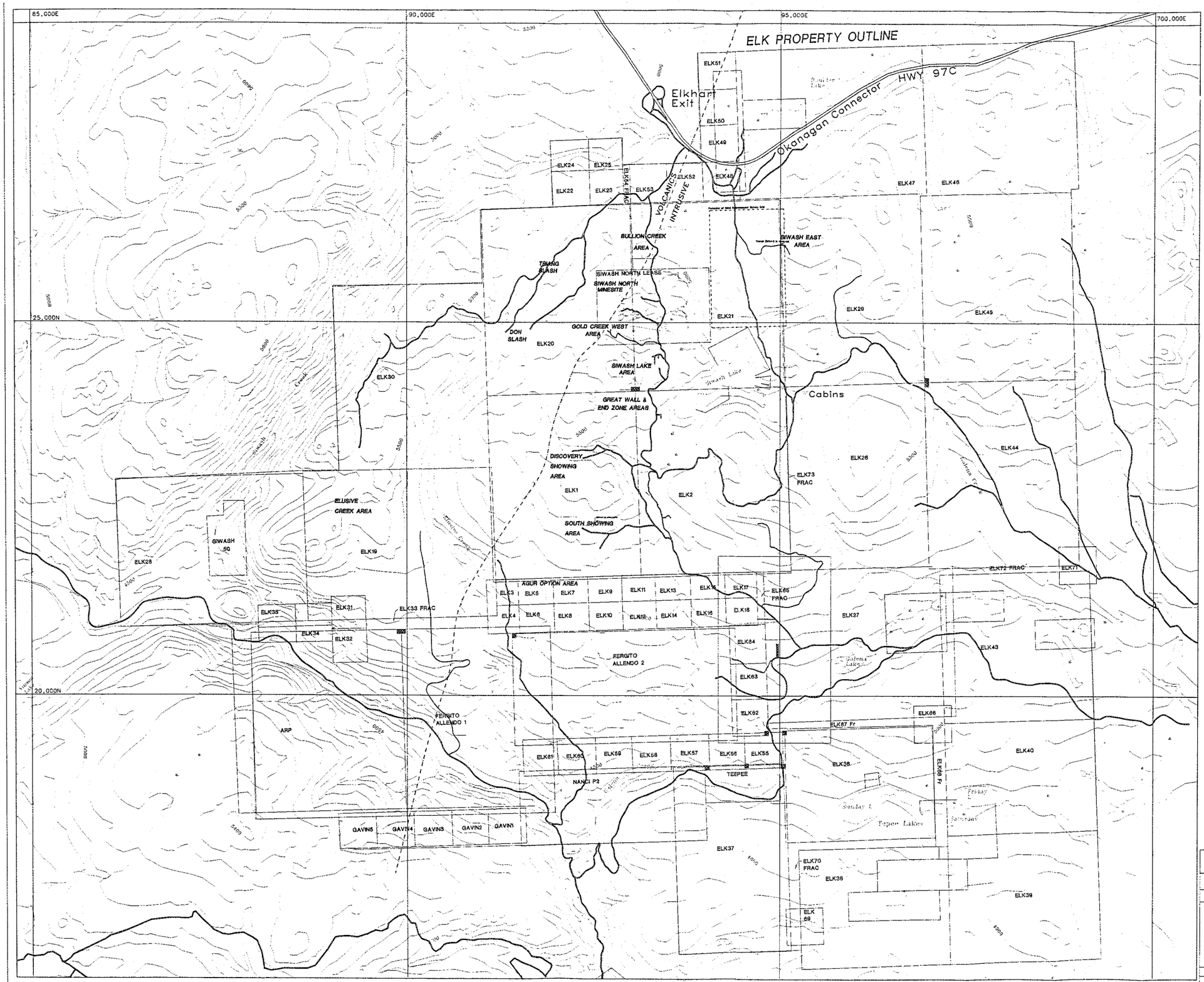
MAP AREA
Pacific Ocean
VANCOUVER
CANADA
U.S.A.
SEATTLE
Aspen Grove
SIWASH GOLD DEPOSIT
ELK3 CLAIMS
Brenda Cu-Mo
KELOWNA
Peachland
49° 45'
Okanagan Lake
Summerland
PENTICTON
PRINCETON
Nickel Plate Au
Hedley
Similco Cu-Au
120 00'
Skaha Lake
Legend
6 Eocene
Princeton Group
intermediate volcanics and sediments
5 Early Tertiary
Otter Intrusions
granite, often porphyritic
4 Late Cretaceous
Summers Creek Pluton
granite
3 Late Jurassic
Osprey Lake Batholith
granite, granodiorite, often coarse grained
2 Triassic/Jurassic
Pennask Batholith
granodiorite, diorite stocks in Nicola Group
1 Triassic
Nicola Group
andesitic volcanics, sedimentary facies to east
Compiled from G.S.C. maps 41-1989, 1736A
ALMADEN MINERALS LTD.
PROPERTY LOCATION and REGIONAL GEOLOGY MAP
SOUTHERN BRITISH COLUMBIA
(OKANAGAN AREA)
N.T.S. 82E, 92H
Figure 1
November, 2000

Almaden Minerals Ltd.



LEGEND

- Road
- Creek
- Geological Contact

0m 500 1000 2000

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ELK PROPERTY

Similkameen Mining Division
NTS 92H/16W, B.C.

CLAIM AND AREA LOCATION MAP

SCALE 1 : 50,000

Drawn by WJ
April, 2005

Figure 2

3.0 INTRODUCTION

This report describes the results of a diamond drill program conducted on the Elk property during the period June 7 to October 30, 2004. The work was managed by personnel of Almaden Minerals Ltd. with the intent to test the continuity and gold grade in the WD, B and Bullion Creek vein system.

3.1 LOCATION AND ACCESS (Figure 1)

The Elk property is located 40 kilometres west of Okanagan Lake in southern British Columbia approximately midway between Merritt and Summerland, at latitude 49°50'N and longitude 120°19'W (Figure 1). The claims cover heavily forested rolling terrain of the Trepanege Plateau highlands. Elevations range from 1300 to 1750 metres above sea level. Access to the property is excellent, with the Okanagan Connector highway passing through the northern claims. Merritt and Kelowna are within one hour driving time from the mine location. Field operations in 2004 were based out of a lodge located on the property.

3.2 CLAIM DATA (Figure 2)

The Elk property consists of 48 two post claims, 26 four post claims, eight fractional claims and one mining lease comprising 492 units (Table 2). Expiry dates listed are subject to acceptance of costs and the program summarized in this report. Initial staking was undertaken in November 1986 (160 units) with additions in 1987 (60 units), 1988 (32 units) and 1989 (199 units). A block comprising 72 units was optioned from Mr. Donald Agur of Summerland, B.C. in October, 1988. Claim acquisition and subsequent work were conducted by Cordilleran Engineering Ltd. for Fairfield Minerals Ltd. until April 1995 when Fairfield assumed operations. Placer Dome Inc. entered into an option agreement on the property in March 1988 and withdrew in March 1991. Fairfield Minerals merged with Almaden Resources Corporation in February 2002 and the claims were transferred to the amalgamated company Almaden Minerals Ltd. The claims are 100% owned by Almaden Minerals Ltd. with the exception of the Agur Option block (72 units) on the south side of the property, which is subject to 1% NSR from production. The Elk41 and Elk42 claims were allowed to lapse in 2000.
In preparation for the transition to a grid – cell computer staking system implemented in January 2005 in British Columbia, a program of relocating and re-establishing claim posts was initiated in 2003 and completed in 2004. A differential GPS survey of selected claim posts was completed in 2004 and is described in the "2004 Claim Post Differential GPS Report" submitted in December 2004.

Table 2			MINERAL CLAIMS AS AT DEC 1, 2004						
Claim Name	Claim Type	No. Units	Record Number	Expiry Date	Claim Name	Claim Type	No. Units	Record Number	Expiry Date
ELK 1	4post	20	249145	12/01/2014	ELK 48	2post	1	249513	12/01/2014
ELK 10	2post	1	249159	12/01/2014	ELK 49	2post	1	249514	12/01/2014
ELK 11	2post	1	249160	12/01/2014	ELK 5	2post	1	249154	12/01/2014
ELK 12	2post	1	249161	12/01/2014	ELK 50	2post	1	249515	12/01/2014
ELK 13	2post	1	249162	12/01/2014	ELK 51	2post	1	249516	12/01/2014
ELK 14	2post	1	249163	12/01/2014	ELK 52	2post	1	249517	12/01/2014
ELK 15	2post	1	249164	12/01/2014	ELK 53	2post	1	249518	12/01/2014
ELK 16	2post	1	249165	12/01/2014	ELK 54	2post	1	414121	12/09/2014
ELK 17	2post	1	249166	12/01/2014	ELK 55	2post	1	249547	12/01/2014
ELK 18	2post	1	249167	12/01/2014	ELK 56	2post	1	249548	12/01/2014
ELK 19	4post	20	249147	12/01/2014	ELK 57	2post	1	249549	12/01/2014
ELK 2	4post	20	249146	12/01/2014	ELK 58	2post	1	249550	12/01/2014
ELK 20	4post	20	307936	12/01/2014	ELK 59	2post	1	249551	12/01/2014
ELK 21	4post	20	307937	12/01/2014	ELK 6	2post	1	249155	12/01/2014
ELK 22	2post	1	249168	12/01/2014	ELK 60	2post	1	249552	12/01/2014
ELK 23	2post	1	249169	12/01/2014	ELK 61	2post	1	249553	12/01/2014
ELK 24	2post	1	249170	12/01/2014	ELK 62	2post	1	249554	12/01/2014
ELK 25	2post	1	249171	12/01/2014	ELK 63	2post	1	249555	12/01/2014
ELK 26	4post	20	249150	12/01/2014	ELK 64	2post	1	249556	12/01/2014
ELK 27	4post	20	249151	12/01/2014	ELK 65	FR	1	249557	12/01/2014
ELK 28	4post	20	249254	12/01/2014	ELK 66	2post	1	249558	12/01/2014
ELK 29	4post	20	249255	12/01/2014	ELK 67	FR	1	249559	12/01/2014
ELK 3	2post	1	249152	12/01/2014	ELK 68	FR	1	249560	12/01/2014
ELK 30	4post	20	249256	12/01/2014	ELK 69	2post	1	249561	12/01/2014
ELK 31	2post	1	249330	12/01/2014	ELK 7	2post	1	249156	12/01/2014
ELK 32	2post	1	249331	12/01/2014	ELK 70	FR	1	249562	12/01/2014
ELK 33	FR	1	249363	12/01/2014	ELK 71	2post	1	249563	12/01/2014
ELK 34	2post	1	249367	12/01/2014	ELK 72	FR	1	249564	12/01/2014
ELK 35	2post	1	249366	12/01/2014	ELK 73	FR	1	249885	12/01/2014
ELK 36	4post	12	249395	12/01/2014	ELK 8	2post	1	249157	12/01/2014
ELK 37	4post	15	249396	12/01/2014	ELK 9	2post	1	249158	12/01/2014
ELK 38	4post	16	249469	12/01/2014	FERGITO ALLENDO1	4post	20	248739	12/01/2014
ELK 39	4post	16	249470	12/01/2014	FERGITO ALLENDO2	4post	18	248740	12/01/2015
ELK 4	2post	1	249153	12/01/2014	GAVIN 1	2post	1	249659	12/01/2014
ELK 40	4post	12	249471	12/01/2014	GAVIN 2	2post	1	249660	12/01/2014
ELK 43	4post	16	249472	12/01/2014	GAVIN 5	2post	1	249663	12/01/2014
ELK 44	4post	20	249509	12/01/2014	NANCI P2	4post	10	248732	12/01/2014
ELK 45	4post	20	249510	12/01/2014	SIWASH #50	4post	2	248927	12/01/2014
ELK 46	4post	16	369415	12/01/2014	SIWASH NORTH	lease	1	308695	14/09/2005
ELK 47	4post	20	249512	12/01/2014	TEEPEE	4post	2	248735	12/01/2014
GAVIN 3	2post	1	249661	12/01/2014	GAVIN4	2post	1	249662	12/01/2014

3.3 HISTORY

During the first half of the 20th century the El Paso adit was driven into volcanic rocks in the area currently covered by the Elk 31 claim. Quartz vein-hosted lead-zinc-silver-gold mineralization was encountered. No production of ore was achieved.

Over the last forty years Don Agur of Summerland, B.C. prospected and trenched the north and west parts of the present Elk property area, as well as to the south along Siwash Creek.

Phelps Dodge Corporation of Canada Ltd. carried out copper exploration during 1972 which included mapping and soil geochemistry in the area of the present Elk 19, 28, 31, 32, 34, 35, Siwash 50 and Arp claims.

Utah Mines Ltd. conducted mapping, geochemistry, IP geophysics and trenching to evaluate copper mineralization on their Siwash claim group which, in part, covered the present Siwash 50 and Elk 28 claims.

Brenda Mines Ltd. worked on the Siwash claim group, which included the area now comprising the southern part of the Elk property. A rigorous copper exploration program including mapping, soil geochemistry, geophysics, trenching and diamond drilling was undertaken between 1979 and 1981. Work was done on the area currently covered by the Elk 19, 28, 31 to 37, Arp, Fergito Allendo I, II, Nanci P2 and Tepee claims.

Exploration for molybdenum was undertaken by Cominco Ltd. during 1980 on what is now the Elk 26, 27, 29, 43 to 45, 71 and 72 claims. Work included geological mapping and soil geochemistry.

No significant discoveries resulted from any of the above programs.

The Elk 1 to 27 claims were staked in November 1986 by Cordilleran Engineering Ltd. for Fairfield Minerals Ltd. to cover new showings of gold-silver mineralization hosted in pyritic quartz veins cutting a granite batholith and andesite dykes. Preliminary hand trenching and soil sampling were conducted.

During 1987, widespread and detailed grid soil sampling programs were undertaken to define areas anomalous in gold. Nine trenches, totaling 1528m, were excavated in two areas (Discovery and South Showings) to test soil geochemical targets, and exposed quartz veins and altered breccias hosted in granite. IP, magnetometer and VLF-EM geophysical surveys were carried out over the trenched areas. The Elk 28 to 30 claims were staked in September 1987 to acquire ground along projections of favourable geochemical trends.

The 1988 program included collection of 2246 soil samples on the claims acquired in 1987 and trenching in Siwash North and Elusive Creek areas. Four kilometres of road was constructed for access and eleven trenches totaling 2884 metres which exposed quartz vein-hosted gold mineralization were mapped and sampled. The Elk 31 to 37 claims were staked to cover adjacent favourable areas.

During the 1989 field season, the Elk 38 to 73 claims were staked to cover projections of anomalous soil geochemical trends. Fifty line-km of VLF-EM and magnetometer surveys were carried out in the Siwash Lake and Siwash North areas and 4865 soil samples were collected on the new claims. A total of 56.25 km of baseline was cut to provide control for soil sampling and geophysical surveys. In the South Showing, Siwash North and Siwash Lake areas 2223 linear metres of bedrock were exposed in 25 trenches. The high grade gold bearing quartz vein system in the Siwash North area was further delineated over a strike length of 750m. Twelve diamond drill holes (752m) tested the down dip continuity of this system. The drill core was logged, split sampled and photographed. Samples were shipped to Acme Analytical Labs for assay and analysis. All core has been stored on site.

During 1990 5168.34m of HQ diamond drilling in 58 holes was carried out in the Siwash North area on a 50m grid spacing. Quartz vein hosted gold mineralization in the Siwash North area was further exposed by seven trenches and three stripped areas totaling 544 linear metres. Diamond drilling in the Siwash Lake area

consisted of 259.08m of HQ core in four drill holes (SLD90-56 to 59). Six trenches and one stripped area totaling 607 linear metres of bedrock exposure were excavated in the Siwash Lake area. Soil sampling on the northern Elk claims was concentrated in the Siwash Lake area where 250 fill-in samples were collected around anomalous coarse grid stations. One thousand two hundred and fifty-four grid soil samples were collected on southern Elk claims. Magnetometer and VLF-EM surveys (50 line km) were carried out on the Agur Option area on flagged lines 100m apart.

Exploration on the Elk claims during the 1991 field season consisted of diamond drilling, trenching and aerial photography. Thirty seven new holes were drilled and two were deepened for a total of 6608.38m in the Siwash North area to test down dip and on-strike continuity of quartz vein-hosted gold mineralization discovered by previous work. The drill core was logged at 1:50 and 1:100 scales, photographed and sampled. Five hundred and ninety eight samples were taken and sent to Acme Analytical Labs for gold assay and analysis.
One trench was dug in the End Zone, 200m southwest of Siwash Lake, to further expose a quartz vein discovered by trenching in 1990. The vein is continuous across the entire length of the 45m trench. Thirty two rock chip samples were collected and sent to Acme for gold assay and analysis.
An area four by eight kilometres centered over the Siwash North area was aerially photographed in colour and black and white, at 1:8,000 and 1:15,000 scales.

During 1992, a bulk sample was extracted from an open pit on the Siwash vein in the Siwash North area. It totalled 2,040 tonnes (2240 tons) and avearged 137.7 gm/t (4.016 oz/t) gold. A small crushing/sampling plant was installed for grade control.
The bulk sample was shipped to Noranda's Horne smelter in Rouyn-Noranda, PQ for metallurgical testing and smelting.
A total of 79 reverse-circulation holes were drilled in September and October to test for further open pitable reserves. A total of 223 reverse circulation chip samples were shipped to Acme Analytical Labs for assay and analysis.

In 1993 open pit mining continued with the extraction of 3,387 tonnes (3733 tons) of bulk sample material grading 105.6 gm/t (3.080 oz/t) Au. Eleven reverse-circulation drill holes totaling 942 metres tested the vein to the south and east of the open pit. The material was crushed on site to minus 6 inches and then shipped to ASARCO's smelter in Helena, Montana.
A portal was collared on June 28 and 480 metres of decline was driven at -15 percent to access high-grade shoots. Two vein drifts were developed for test mining, the 1570 level on the steeply dipping limb of the vein, and the 1611 level immediately downdip from the central core of the open pit on the flat dipping limb. Drifting on the 1570 level produced about 140 tonnes (154 tons) of ore grading 38 gm/t (1.108oz/t), whereupon the drift was abandoned and refilled due to poor ground conditions. Three raises at 5 metre centres, totaling 36 metres in length, were driven up dip from the 1611 level drift. Following development of the raises, the quartz vein was stoped from the pillars producing about 315 tonnes (347 tons) of ore grading approximately 70 gm/t (2.042 oz/t) Au.

In 1994 the Company received a small mine permit, the open pit was expanded and 9,180 tonnes (10,119 tons) of ore grading 91.5 gm/t (2.669 oz/t) were extracted. Underground, the 1611 level drift was extended to the west. Five raises were added and the existing ones lengthened to the 1620m elevation. Approximately 1,200 tonnes (1323 tons) of quartz vein material grading about 78 gm/ton (2.275 oz/t) Au was extracted.
An underground diamond drilling program was carried out between April 7 and May 31, with 5,011m of core drilled in 84 holes from the existing decline to define ore reserves. A total of 448 core samples were collected.
Further underground development was undertaken on completion of the open pit, with the main decline being extended 330 metres. A second decline branched east from the main ramp, for a length of 185 metres. Test mining was carried out on two levels. A longhole stoping test on the 1584 level produced 95 tonnes (105 tons) at 16.5 gm/t (0.481oz/t) from drifting on the ore. Longhole blasting produced excessive dilution and most of the material remains in the stope. On the 1589 level, a shrinkage stope test was undertaken. Stoping proceeded about 6 metres up dip along the 30 metre length of the drift. About 105 tonnes (116 tons) at 15 gm/t (0.438 oz/t) Au were hauled to surface. However, much of the material remains in the stope.

Exploration on the Elk claims in 1995 consisted almost entirely of diamond drilling. Two hundred and seventeen underground diamond drill holes (7,612 m) were drilled from the decline ramp in the vein footwall, between April 13 and August 12, to test grade and continuity of the mineralized zone. A total of 918 core samples were collected from underground holes and sent to Acme Analytical Laboratories for gold assay and analysis.
Surface diamond drilling was undertaken between June 21 and September 22. In the Siwash North area, 70 holes were drilled (4,645 metres). In the Lake Zone area, 7 holes (477m) were completed. Two holes (102m) were drilled on the Great Wall Zone, and four holes on the End Zone (187m). Six holes were drilled on Discovery Showing and nine holes on the South Showing areas (397m and 481m respectively). In all, 6289 metres were drilled in 98 surface holes. A total of 581 core samples were collected and sent to Acme Analytical Labs for assay and analysis.
A small trench measuring about 10m along strike and 4m wide was dug at the Great Wall Zone to test the grade of a quartz vein encountered during road construction. A ten centimetre vein trending 55 degrees and dipping 60 degrees to the south was exposed. Two 0.5m square panel samples were taken across the vein and returned grades of 0.51gm/t (0.015 oz/t)and 0.99 gm/t (0.029 oz/t) Au.
A total of 38 soil geochemical samples were taken to the east of the clear-cut in the Siwash North area. Prospecting in areas of anomalous samples uncovered quartz vein float which assayed 47.35 gm/t (1.381 oz/t) Au.
Two test pits were dug in the southern South Showing area.

The 1996 program consisted of 6,946.34m of NQ diamond drilling in 88 holes. Five holes were drilled in the Siwash North Deep B area (1120.14m). The mineralized structure was intersected in all holes. The proposed Phase 5.5 open pit, east of the existing pit, was detail drilled with 1997.02m of NQ core in 38 holes. This allowed the definition of an indicated resource of 503,000gm Au (16,200 oz) for the area of the proposed pit. The WD zone, located 200m north of the Siwash B zone structure, was tested with 25 holes in 2308.84m resulting in an inferred resource block of 569,000 gm Au (18,290 oz). The source of the anomalous soil geochemistry in the East Slope area was evaluated with 9 holes (564.39m) with poor results. Four holes (399.08m) were drilled to test the source of the anomalous soil geochemistry and VLF conductor in the Gold Creek East area. Numerous small veins with poor to moderate values were intersected. The source of the anomalous soil geochemistry in the Gold Creek West area was evaluated with 7 NQ holes (556.87m). A mineralized quartz vein was intersected with 11.8 gm/t (0.381 oz) over a true width of 0.5m. A total of 1161 core samples were sent to Acme Analytical Laboratories for gold analysis.
The area immediately to the south and east of the drill grid was detail soil sampled at 25 X 50m spacing for a total of 367samples.

Reclamation and site cleanup was undertaken during 1997. The overburden cover was completed on the East waste dump and much of the mine equipment was transported to Savona, B.C. for storage or sale. Limited prospecting, sampling and environmental monitoring were carried out between 1997 and 1999 on the Elk property.

During 2000 twelve NQ diamond drill holes (1414m) tested the WD, B Zone and Gold Creek vein systems. Four holes were drilled into the WD zone to expand the then current 18,000 oz inferred resource block. The WD veins were intersected in all holes close to the projected depths with grades up to 41.03 gm/t Au over a true width of 0.50m. The area of the proposed Phase 5.5 open pit located about 200m to the east of the existing pit had been drilled extensively to establish a resource estimate for pit planning purposes. Three holes were drilled on the east side of the proposed pit to increase the sample density. The Gold Creek West vein, located approximately 450m southwest of the existing open pit, was first drilled in 1996. Five holes were drilled to test the vein continuity at 50m intervals between sections 1700E and 1890E. The vein was intersected at the projected location with grades up to 16.55gm/t Au over a true width of 0.50m. The vein steepens from about -30^{o} on sections 1750E and 1700E to -60^{o} on section 1840E and east.
The exploration field camp located on Camp Creek that was used from 1987 to 1996 was completely disassembled.

A trenching program was carried out in the Siwash East area during October of 2001. A total of six trenches with a cumulative length of 202 meters located the source of mineralized quartz float discovered by

prospecting. The trenches exposed narrow quartz veins adjacent to an east-west trending andesite dyke with grades of up to 21.7 gm/t Au from a 0.5 by 0.5 meter panel sample.

During the 2002 field season twenty six NQ diamond drill holes (4496m) tested the WD, B Zone, Gold Creek West and Bullion Creek vein systems. Seven holes were drilled into the WD zone to determine the extent of the known shoot. The WD veins were intersected in all holes close to the projected depths with grades up to 91.22 gm/t Au over a true width of 0.50m. Eleven holes were drilled into the DeepB shoot located immediately below the existing underground development to fill-in the drill spacing to less than 25 meters and to define the perimeter of the known mineralization. Two holes were drilled on the west side of the existing open pit to help determine the feasibility of a pit expansion to the west. The Gold Creek West vein located approximately 450m southwest of the existing open pit was tested with four holes in two 50 meter step-outs to the west of the existing grid. Two holes were drilled into the Bullion Creek structure located 700 meters to the north of the open pit to test a geochemical anomaly.

In 2003, a total of 6570 meters of NQ diamond drilling in 30 holes was carried out in the Siwash North area to further test the WD zone. A subparallel vein, the WD2 vein, was intersected about 30m below the WD vein on the west side of the grid and found to contain significant gold grades.
In preparation for the transition to a computer based staking system (MTO), claim posts for the southern claims were located with a GPS and replaced where they had been destroyed by logging operations.

3.4 2004 EXPLORATION PROGRAM

The 2004 exploration program on the Elk claims consisted of diamond drilling, core logging, sampling, a claim post differential GPS survey, a magnetometer survey and trenching.
A total of 10265 meters of NQ diamond drilling in 44 holes was carried out in the Siwash North area to further test the WD, B and Bullion Creek zones. In preparation for the transition to a computer based staking system (MTO), selected claim posts were located with a differential GPS. The data was reported in "2004 Claim Post Differential GPS Report" submitted in December 2004. A road cut to a proposed drill site in the Siwash East area exposed bedrock and was mapped and sampled over a length of approximately 40 metres. A ground magnetometer survey was carried out over the Siwash East area for a total of 15.8 line kilometers

Gangue mineralogy consists primarily of quartz and altered wall-rock fragments. Ankerite is commonly present, with lesser amounts of calcite. Minor barite is also present. Fluorite was noted in one vein as very small (<1mm) zoned purple cubes scattered in the quartz.

In the Siwash Lake area (Fig. 2), mineralization occurs mainly in quartz stringers and veins up to 35cm thick, hosted by strongly argillic- to phyllic-altered granitic rocks, closely associated with an andesite dyke. The zone trends easterly and dips about 60^{o} to the south. At surface and in drill core, the gold is associated with pyrite, chalcopyrite, and locally high concentrations of galena and sphalerite. Tetrahedrite and maldonite(?) are also locally present. Silver values are much higher than in Siwash North, probably associated with the greater galena content of the veins. The gangue mineralogy is similar to Siwash North.

Mineralization in the End Zone area is similar to that in the north, but trends approximately northeast dipping about 70^{o} to the south. The quartz veins are 1 to 20cm in thickness and are hosted in strongly to moderately altered quartz monzonite (as seen in trenches). The dominant sulphide minerals noted in the quartz veins were pyrite, galena, sphalerite, chalcopyrite, tetrahedrite and arsenopyrite. Silver to gold ratios were also elevated, similar to the Lake Zone.

In the Discovery Showing area (previously called the North Showing), pyritic quartz veining occurs within a package of altered quartz monzonite, intruded by numerous feldspar, quartz-feldspar porphyry and andesite dykes, with local diatreme breccia bodies.

In the South Showing area, mineralization occurs mainly in quartz stringers in altered granitic rocks, in association with breccia or with intensely argillized andesite dykes. Gold is rarely visible, and is associated with pyrite and base-metal sulfides. The highest grade sample is from a zone of quartz stringers paralleling the breccia, accompanied by weak sericitic alteration.

4.4.1 Alteration

On the Elk property, higher grade gold mineralization generally accompanies stronger alteration.

Seven main types of alteration were recognized throughout the property: Propylitic, argillic, sericitic, K-spar stable phyllic, phyllic, advanced argillic and silicic. Locally, potassic alteration, skarnification, and silicification were noted, but were relatively minor and did not appear to be related to mineralization. The following descriptions refer to granitic rocks except as noted:

propylitic:
Generally light green, with biotite and hornblende altered to chlorite and saussuritization of plagioclase. In volcanics, colour is generally olive-green, and rock is soft.

argillic:
Rock is bleached, with plagioclase white and clay-altered; K-spar is slightly altered. Volcanics are bleached to light green or grey.

sericitic:
Typically pale green with a micaceous sheen, with plagioclase altered to sericite; trace disseminated pyrite may be present. Often associated with quartz veins, and appears to be the lowest grade alteration associated with gold mineralization. Not recognized in volcanics.

K-spar stable phyllic:
Light pink, green, or yellowish with K-spar fresh, pink and blocky. Plagioclase and mafic minerals are altered to fine-grained quartz-sericite-pyrite. Often occurs with veins and associated with gold mineralization. Not recognized in volcanics.

phyllic:

Generally grey, fine-grained quartz-sericite-pyrite alteration. Usually associated with veins often gradational to quartz and often auriferous.

advanced argillic:

Most or all of feldspar is destroyed, quartz is "free-floating"; rock is often sheared and white in colour. Volcanics are white or blue coloured. Often associated with quartz veins.

silicic:

Quartz veining or replacement. Hard with moderate conchoidal fracture. Textures may be blurred.

There is a strong symmetrical zoning of alteration around the quartz veins:

VEIN - ADVANCED - PHYLLIC - K-SPAR STABLE - ARGILLIC - PROPYLITIC
ARGILLIC PHYLLIC

Secondary bands and zones of alteration may be present, and any of the alterations may be missing.

At surface, the alteration may produce a striking "rainbow" effect with the rock colour grading from white (vein) through grey, yellow, orange, rust, brown, and green (propylitic). In drill core, the effect is less striking and extensive, but the general pattern is still present.
Two samples of drill core (SND372@241 and SND386@10.3) that displayed a light grayish alteration were submitted to PetraScience Consultants Inc. for petrographic analysis. The alteration was found to be a carbonate-quartz-Fe oxide replacement of quartz and feldspar with local muscovite-sericite replacement of feldspar. The report is include as Appendix "C".

4.4.2 Genetic Considerations

Gold mineralization on the Elk property appears to be related to Tertiary tectonic and intrusive events as inferred from crosscutting relationships.

At various locations on the property, quartz veins have been mapped cutting Tertiary(?) andesite dykes which intruded Tertiary Otter intrusions, Jurassic Osprey Lake Batholith and Triassic Nicola volcanics. In the Siwash North area one quartz vein was found crosscut by an andesite dyke. Cataclastic textures in the quartz veins mapped in the Siwash North and Discovery Showing areas suggest reactivation of the structures hosting the veins. Late stage Otter intrusive activity may have acted as the "heat pump" for the mineralizing fluids. Petrographic analyses indicate that the deposition of gold mineralization was a late-stage event in the hydrothermal system, with native gold and associated sulphide minerals filling fractures in pyrite.

During the mineralizing events, hydrothermal fluids permeated fractures in the host rock, depositing quartz and sulphides in the fractures and causing alteration of the wall rocks. These fluids probably had temperatures of about 300^{o} C during the initial stages of mineralization as indicated by sulphide and alteration mineralogy (Panteleyev, 1986).

Briefly, the genetic model for the deposits is thought to be as follows:

1) Deposition of the Nicola volcanics.
2) Emplacement of the Osprey Lake Batholith.
3) Emplacement of the Otter syenitic intrusions.
4) Fracturing possibly during the Osprey Lake and/or Otter intrusive events.
5) Intrusion of andesite dykes.
6) Precipitation of quartz veins with pyrite, base metal sulphides and late stage gold mineralization, with associated hydrothermal alteration.
7) Erosion to present level.

5.0 DIAMOND DRILLING

5.1 INTRODUCTION

Surface diamond drilling was carried out on the Siwash North Mining Lease between June 7 and Ocober 30, 2004. A total of 10,265m of drilling in 44 NQ holes tested the WD Zone between 2110E and 2820E and to a depth of 390m below surface. The B zone was tested to a depth of 340m and the Bullion Creek (BC) zone was tested over a strike length of 100m to a depth of 115m. All holes were drilled on sections 50 or 20m apart. Drilling was performed by Leclerc Drilling Ltd. of Cranbrook, B.C. using skid-mounted Longyear 38 and Boyles Brothers 56 drills. Drill hole locations and depths are summarized in Table 3.

Table 3 **ELK PROPERTY 2004 DRILL SUMMARY**

HOLE NO	DATE START	DATE FINISH	ZONE	SECTION	COLLAR NORTH	COLLAR EAST	COLLAR ELEV	DEPTH
SND04366	09-Jun-04	11-Jun-04	WD	2260E	3431.53	2256.44	1632.17	213.06
SND04367	11-Jun-04	15-Jun-04	WD	2260E	3407.51	2258.67	1632.14	242.93
SND04368	16-Jun-04	18-Jun-04	WD	2210E	3435.23	2210.48	1635.46	182.88
SND04369	19-Jun-04	21-Jun-04	WD	2210E	3434.80	2210.45	1635.26	220.07
SND04370	21-Jun-04	25-Jun-04	WD	2310E	3471.74	2309.82	1630.14	174.35
SND04371	25-Jun-04	29-Jun-04	WD	2310E	3431.82	2310.64	1630.76	250.55
SND04372	29-Jun-04	08-Jul-04	WD	2310E	3409.35	2309.87	1628.90	271.88
SND04373	08-Jul-04	13-Jul-04	WD	2310E	3353.14	2309.88	1640.22	331.32
SND04374	15-Jul-04	21-Jul-04	WD	2310E	3317.41	2364.27	1637.72	372.77
SND04375	21-Jul-04	26-Jul-04	WD	2410E	3381.75	2420.43	1630.00	328.27
SND04376	26-Jul-04	28-Jul-04	BC	2320E	4071.99	2319.18	1585.31	107.29
SND04377	28-Jul-04	29-Jul-04	BC	2320E	4071.84	2319.21	1585.37	46.33
SND04378	29-Jul-04	31-Jul-04	BC	2420E	4113.83	2418.38	1582.18	90.22
SND04379	31-Jul-04	04-Aug-04	BC	2420E	4112.28	2418.33	1582.38	150.80
SND04380	04-Aug-04	14-Aug-04	DeepB	2120E	3213.77	2120.08	1656.17	271.88
SND04381	15-Aug-04	21-Aug-04	DeepB	2120E	3168.80	2135.02	1651.82	340.46
SND04382	21-Aug-04	27-Aug-04	DeepB	2090E	3156.16	2088.89	1650.32	300.84
SND04383	27-Aug-04	29-Aug-04	WD	2720E	3567.22	2723.43	1634.31	153.01
SND04384	29-Aug-04	01-Sep-04	WD	2720E	3526.50	2719.77	1641.88	201.78
SND04385	02-Sep-04	11-Sep-04	WD	2720E	3410.21	2719.51	1650.29	352.66
SND04386	11-Sep-04	17-Sep-04	WD	2720E	3486.60	2720.45	1643.24	241.71
SND04387	14-Sep-04	19-Sep-04	WD	2670E	3320.98	2668.90	1647.43	384.96
SND04388	18-Sep-04	21-Sep-04	WD	2720E	3449.04	2719.71	1648.11	279.50
SND04389	19-Sep-04	24-Sep-04	WD	2720E	3365.99	2719.34	1648.78	373.99
SND04390	22-Sep-04	23-Sep-04	B	2540E	3390.02	2539.39	1647.27	89.00
SND04391	23-Sep-04	24-Sep-04	B	2520E	3383.20	2519.99	1645.98	92.05
SND04392	25-Sep-04	28-Sep-04	WD	2770E	3386.81	2769.33	1647.99	334.37
SND04393	25-Sep-04	27-Sep-04	WD	2770E	3523.87	2769.64	1632.97	194.68
SND04394	28-Sep-04	29-Sep-04	WD	2770E	3571.24	2769.25	1622.77	121.92
SND04395	28-Sep-04	02-Oct-04	WD	2770E	3386.63	2769.33	1647.98	367.89
SND04396	29-Sep-04	01-Oct-04	WD	2770E	3479.82	2769.28	1635.65	213.66
SND04397	02-Oct-04	04-Oct-04	WD	2770E	3479.76	2769.41	1635.64	258.17
SND04398	02-Oct-04	04-Oct-04	WD	2370E	3512.81	2377.19	1629.05	264.26
SND04399	04-Oct-04	06-Oct-04	WD	2820E	3526.94	2819.90	1615.32	79.86
SND04400	04-Oct-04	12-Oct-04	DeepB	2090E	3155.70	2089.93	1650.31	334.36
SND04401	06-Oct-04	11-Oct-04	WD	2820E	3526.94	2819.90	1615.32	160.63
SND04402	11-Oct-04	14-Oct-04	WD	2820E	3526.94	2819.90	1615.32	197.21

SND04403	12-Oct-04	16-Oct-04	DeepB	2090E	3094.08	2081.80	1643.26	389.23
SND04404	14-Oct-04	16-Oct-04	WD	2870E	3483.35	2869.80	1609.42	71.94
SND04405	16-Oct-04	19-Oct-04	WD	2260E	3375.23	2263.37	1640.75	296.88
SND04406	19-Oct-04	21-Oct-04	WD	2210E	3415.86	2207.72	1639.81	233.78
SND04407	21-Oct-04	24-Oct-04	WD	2160E	3430.45	2162.62	1644.29	199.03
SND04408	24-Oct-04	26-Oct-04	DeepB	2210E	3154.23	2210.68	1649.60	224.33
SND04409	26-Oct-04	29-Oct-04	DeepB	2210E	3153.76	2210.67	1649.74	258.17
							TOTAL:	**10264.92**

5.2 DRILLING OPERATIONS

All holes in the 2004 drill program were drilled to the north on sections 50 meter apart except for sections 2520E and 2540E which were fill-in fences 20m apart set to confirm grade and structural continuity of the B zone in the proposed open pit area. All holes with the exception of SND04-399 and -402 were drilled to completion and intersected their targets. Hole SND04-399 was terminated when the casing broke loose and SND04-404 was unable to penetrate a clay altered andesite dyke.

Drill sites were leveled and prepared using a Caterpillar 325LC excavator contracted from Elkhart Lodge and a Komatsu PC250LC excavator contracted from Jaeden Resources. Sumps were dug to contain cuttings. The drill was moved between sites using a D5 tractor. Water was pumped to the drill from the open pit. A reclaimed road was rebuilt to provide drill sites for the eastern WD holes and a new road was logged and built to the south of the mine area clearcut to provide sites for the Deep B holes.

Upon receipt, the core was washed, footage blocks converted to metres, and the recovery, RQD (rock quality determination), hardness, and degree of breakage were measured. All the core was photographed at four core boxes to the frame, and selected intervals were photographed at five frames per core box. The geology, geotechnical information, and sample intervals were logged onto hand-held HP200LX palm-top computers, and were later down-loaded onto a desktop computer. All samples were split and every twentieth sample was quartered for duplicate analysis as part of the quality control process. Gold standard pulps provided by CDN Resource Laboratories Ltd. were inserted into the sample stream as a check of lab procedures. Samples were shipped to Acme Analytical Laboratories Ltd. in Vancouver, B.C. and assayed or analyzed for gold. Thirty element ICP analysis was also performed on samples containing quartz vein material. Specific gravity measurements using a scale were made on selected mineralized zones at the site.

Drill hole orientations were measured at surface with a Brunton compass, and down-hole with an Icefield MI-3 multishot inclinometer/deviation tool. On completion of the hole, the casing was removed and replaced with a section of 2.5 inch diameter PVC pipe. The hole locations were surveyed relative to pre-established survey control points using a Sokia SET5W theodolite equipped with an EDM.

5.3 DRILLING RESULTS

Surface drill hole collar locations are shown on Plate 1 and are listed above in Table 3. Summary drill logs, including geology and assay information for all 2004 drill holes, are included in Volume II, Appendix D. Subsurface geology, sample locations and selected assays are plotted on drill sections included in Plates 4 to 20. Averaged assay results with zone intercept coordinates are listed below in Table 4.

Twelve holes were drilled into the WD vein system to the west of the north-northwest trending RB fault located roughly between 2340E and 2400E. The WDa, WDb, WD2 and WD3 veins were intersected in both the quartz monzonite and granodiorite in the holes between sections 2160E and 2370E. A summary of the drill core sample results from all zones intersected in 2004 is listed below in Table 4. The WD zones strike roughly east west and dip steeply to the south. Continuity of the vein structures is variable but good potential exists to extend them to the west and to depth as shown on section 2160E with the 0.604 oz/t Au intersection

in hole 407. Potassic alteration was more intense and pervasive than noted in other parts of the Siwash North area

Nineteen holes were drilled into the WD system to the east of the RB fault between 2370E and 2820E to extend the known resource. The WD zone(s) were intersected in all holes with the exception of holes SND04-399 and 404, which were terminated before the projected intercept depth due to poorly set casing and bad ground conditions. An attempt was made to deepen hole SND96-241 to test the WD2 zone but the drill was unable to penetrate a strongly clay altered andesite dyke. The WD vein system was traced to 2820E and to a depth of 390m below surface though the grade decreased to the east of section 2720E.

Table 4 **2004 DRILL INTERSECTION SUMMARY**

Hole Num	From	To	Int	TW	Zone	Au oz/t	Ag oz/t	SG	North	East	Elevation
SND04366	176.05	177.71	1.66	0.50	WD2	0.580	0.394	2.70	3491.88	2266.68	1466.70
SND04366	192.49	193.20	0.71	0.50	WD3	0.374	0.298	2.72	3497.56	2267.92	1451.24
SND04367	214.59	215.34	0.75	0.60	WD2	0.598	0.424	2.72	3467.44	2262.77	1425.74
SND04367	222.00	222.74	0.74	0.50	WD3	0.925	0.913	2.75	3469.58	2263.05	1418.46
SND04367	217.33	222.83	5.50	4.60	WD3	0.173	0.121	2.71	3469.58	2263.05	1418.46
SND04368	157.76	158.32	0.56	0.50	WD2	0.910	0.960	2.74	3489.51	2216.27	1487.10
SND04368	123.53	124.37	0.84	0.78	WDa	0.209	0.764	2.73	3477.51	2214.35	1519.24
SND04368	142.05	142.58	0.53	0.50	WDb	0.245	0.266	2.74	3483.95	2215.36	1501.97
SND04369	160.55	161.20	0.65	0.50	WD	0.722	1.290	2.74	3445.93	2209.80	1474.75
SND04369	198.71	199.40	0.69	0.50	WD2	0.249	0.228	2.72	3448.61	2209.49	1436.60
SND04372	233.00	235.60	2.60	2.22	WD2	0.140	0.220	2.86	3497.27	2315.56	1411.20
SND04372	233.00	233.84	0.84	0.65	WD3	0.345	0.731	2.95	3496.96	2315.44	1412.45
SND04373	309.90	310.80	0.90	0.50	WD3	0.237	0.589	2.68	3450.33	2320.13	1345.84
SND04374	50.10	53.61	3.51	3.42	Bb	0.248	0.956	2.72	3336.49	2365.05	1588.21
SND04375	31.05	31.61	0.56	0.50	Bb	0.418	0.159	2.76	3389.69	2421.04	1599.56
SND04375	14.87	36.40	21.53	20.43	Bb	0.020	0.004	2.70	3389.69	2421.04	1599.56
SND04377	33.01	35.46	2.45	1.52	BC	0.080	0.087	2.74	4071.78	2318.67	1552.21
SND04377	33.01	35.50	2.49	1.54	BC	0.080	0.087	2.74	4070.95	2318.61	1552.35
SND04380	189.69	190.24	0.55	0.50	PC	0.477	0.000	2.70	3235.69	2122.80	1467.61
SND04381	282.61	283.98	1.37	0.50	Ba	0.282	0.568	2.70	3209.36	2129.36	1371.15
SND04382	201.72	202.30	0.58	0.50	PC	0.238	0.000	2.75	3207.37	2091.49	1455.02
SND04384	155.70	156.88	1.18	1.00	WDa	1.803	2.911	2.78	3566.54	2722.10	1490.92
SND04385	292.78	293.49	0.71	0.50	WD	0.252	1.040	2.66	3481.27	2724.89	1366.17
SND04386	198.50	199.21	0.71	0.50	WDa	0.631	0.760	2.67	3537.03	2721.01	1450.95
SND04388	95.79	96.30	0.51	0.50	D	0.278	0.451	2.67	3473.07	2719.99	1555.02
SND04388	247.38	248.10	0.72	0.55	WDb	0.231	0.527	2.63	3510.30	2721.73	1408.04
SND04389	72.44	73.05	0.61	0.60	B	0.315	1.512	2.98	3385.04	2718.63	1578.56
SND04390	55.15	55.65	0.50	0.50	B	1.516	3.167	2.74	3397.46	2539.76	1592.38
SND04390	55.05	55.65	0.60	0.60	B	1.266	2.645	2.73	3397.46	2539.76	1592.38
SND04390	55.15	68.39	13.24	13.15	B	0.091	0.137	2.70	3397.46	2539.76	1592.38
SND04390	43.00	68.39	25.39	24.01	B	0.051	0.075	2.70	3397.46	2539.76	1592.38
SND04390	67.39	68.41	1.02	1.00	C	0.401	0.201	2.70	3399.23	2539.77	1580.02
SND04390	67.39	68.41	1.02	1.00	C	0.401	0.201	2.70	3399.23	2539.77	1580.02
SND04391	55.23	55.74	0.51	0.50	B	2.182	3.478	2.77	3393.81	2519.99	1591.41
SND04394	96.45	97.06	0.61	0.50	WDb	0.275	1.026	2.67	3599.21	2768.45	1530.21
SND04398	186.97	187.72	0.75	0.50	WD2	0.424	0.977	2.78	3521.33	2373.72	1442.08
SND04400	297.29	297.80	0.51	0.50	B	1.403	0.792	2.99	3179.12	2089.32	1353.82
SND04400	216.87	217.55	0.68	0.60	PC	0.213	0.383	2.98	3174.70	2089.30	1433.90
SND04403	337.80	338.34	0.54	0.50	B	0.591	0.281	2.79	3137.33	2090.05	1308.23
SND04405	255.25	255.90	0.65	0.50	WD2	0.279	0.174	2.67	3437.54	2257.20	1393.02
SND04406	202.23	203.42	1.19	0.50	WD	0.665	0.951	2.70	3412.10	2207.76	1437.24
SND04407	10.72	11.22	0.50	0.50	C	0.243	0.311	2.65	3432.19	2162.64	1633.36
SND04407	179.37	179.90	0.53	0.50	WD2	0.604	1.553	2.78	3457.88	2163.13	1466.65

SND04408	192.00	192.58	0.58	0.50	B	0.646	0.369	2.71	3252.91	2215.95	1484.81

Four holes were drilled into the Bullion Creek vein to test the continuity of the structure along strike from the 2003 intercepts. Two hole fences were drilled 50 meters east and west of section 2370E. Moderately altered fine grained granodiorite with narrow low grade quartz veins was intersected in both fences at approximately the projected locations.

The DeepB area below the existing mine workings was tested with seven drill holes between 2090E and 2210E. All holes intersected the B vein at the projected depths though the vein does appear to be shifting to a slightly shallower dip at depth. Good to moderate grades were returned from all 2004 holes in the Deep B area.

Two holes were drilled to confirm the continuity and grade of mineralization in the proposed open pit area on sections 2520E and 2540E. The A, B and C zones were intersected at the projected depths with the expected high grades.

6.0 GEOCHEMISTRY

6.1 INTRODUCTION

A total of 863 drill core samples were collected from 44 holes on the Elk claims during the 2004 field season. Also analyzed/assayed were 41 standards, 41 blanks and 42 duplicates. Core samples were assayed or analyzed for gold depending on visual estimation of potential gold grade.

6.2 ROCK GEOCHEMISTRY

Drill core samples were shipped to Acme Analytical Laboratories in Vancouver for gold analysis. Sample preparation and analysis methods varied based on material sampled. All samples were split and every twentieth sample was quartered to produce a duplicate for quality control purposes.

Samples that were expected to have significant gold content were split and half the core was submitted to the lab for metallics assay. Typically, this material consisted of quartz vein with or without wall rock, at least 10 to 15cm thick with a minimum of 10% sulfide (or traces of visible gold). These samples were crushed in their entirety to -3/16" and coarse pulverized to -1/16". Two kg of the -1/16" material was split out and pulverized to 99% finer than -150 mesh and sieved on a 150 mesh screen. One Assay Ton (1 AT) of the -150 mesh fraction was assayed for gold and silver, and was combined with the weighted result of gold and silver fire assays of the entire coarse fraction, to give total gold and silver values. ICP analysis for 35 elements was also carried out on a 0.50gm sample of -100 mesh material. Selected high grade intercepts were checked by resampling from the reject and assaying for gold by the same method.

Samples which were expected to be of lower grade were split and shipped to the lab for fire assay. This material usually consisted of quartz vein material less than 10cm thick with less than 10% sulfide. At the lab the entire sample was crushed to -3/16", then 2kg were split out and coarse pulverized to -1/16". A 250gm split was taken and pulverized to -100 mesh. A one-assay ton (1 AT) sample was fire assayed for gold and silver. Thirty-five element ICP analysis was usually carried out. Higher grade intercepts were reassayed using the metallics method described above.

Samples that were not expected to carry high gold values, typically stringers, strongly altered wallrock or blank samples flanking well mineralized samples, were split and analyzed for gold using a wet goechemical method. At the lab the entire sample was crushed to -3/16", 250 gm of sample split out and pulverized to -100 mesh. A 20 gm sample of the -100 mesh material was analyzed for Au by ICP-MS using acid extraction.

Samples that returned higher than expected values were assayed using the next higher confidence sampling procedure. These assays generally returned values lower than the originals. This may be due to larger sample size reducing the nugget effect. The results of the upgraded assays are listed below in Table 5.

Table 5 ReAssayed Sample Summary

Hole Number	From (m)	To (m)	Sample Number	Au Wet Geochem	Au Fire Assay	Au Metallics	Geochem/Assay % Variability	Assay/Metallics % Variability
SND04372	233.00	233.40	SND04372-28	13539.7	0.471	0.442	-19.35%	6.22%
SND04372	233.40	233.80	SND04372-29	8726.6	0.292	0.277	-14.82%	5.22%
SND04373	309.90	310.50	SND04373-54	21777	0.619	0.487	2.60%	21.28%
SND04382	106.45	107.29	SND04382-10	17164.9	0.516		-3.07%	
SND04383	105.49	105.85	SND04383-9	10108.6	0.297		-0.80%	
SND04385	60.60	61.30	SND04385-5	8878.6	0.117		54.82%	
SND04387	118.30	118.60	SND04387-12	12734.5	0.227		38.75%	
SND04388	44.70	45.00	SND04388-9	12298.6	0.376		-4.81%	
SND04390	67.39	68.39	SND04390-18	12316.3	0.407		-13.18%	
SND04391	53.00	53.30	SND04391-2	18640.3	0.360		33.80%	
SND04366	181.00	181.31	SND04366-12	30802.3		0.864		
SND04367	217.33	217.66	SND04367-18	33464		0.955		
SND04368	157.90	158.32	SND04368-17	42475.5		1.243		
SND04372	233.00	233.40	SND04372-28	13539.7	0.471	0.442	-19.35%	6.22%
SND04372	233.40	233.80	SND04372-29	8726.6	0.292	0.277	-14.82%	5.22%
SND04373	309.90	310.50	SND04373-54	21777	0.619	0.487	2.60%	21.28%
SND04374	50.10	50.48	SND04374-17	39261.2		0.591		
SND04375	31.31	31.61	SND04375-13	23704.4		0.689		
SND04367	222.42	222.74	SND04367-21		1.678	2.553		-52.18%
SND04368	123.95	124.37	SND04368-9		0.976	0.124		87.29%
SND04369	160.60	161.20	SND04369-9		0.981	0.778		20.69%
SND04372	233.00	233.40	SND04372-28	13539.7	0.471	0.442	-19.35%	6.22%
SND04372	233.40	233.80	SND04372-29	8726.6	0.292	0.277	-14.82%	5.22%
SND04373	309.90	310.50	SND04373-54	21777	0.619	0.487	2.60%	21.28%
SND04374	52.89	53.24	SND04374-21		0.600	0.960		-59.93%
SND04385	59.16	60.05	SND04385-4		0.083	0.128		-54.22%
SND04385	292.78	293.15	SND04385-30		0.437	0.486		-11.21%
SND04385	292.78	293.15	SND04385-31		0.533	0.524		1.69%
SND04387	390.99	391.34	SND04387-30		0.052	0.037		28.33%
SND04389	72.49	73.05	SND04389-4		0.399	0.340		14.72%
SND04389	131.60	132.70	SND04389-11		0.017	0.014		18.64%
SND04389	342.30	342.80	SND04389-16		0.010	0.005		51.02%
SND04391	67.79	68.32	SND04391-13		1.159	0.850		26.67%
SND04397	225.70	226.20	SND04397-6		0.042	0.047		-12.50%
							0.67%	**7.14%**

Raw assay data is presented in Appendix A.

6.3 METHODS OF AVERAGE GRADE CALCULATION

True widths of the sampled intervals were determined from core angles and from zone orientations determined by contouring the zone intercepts. Specific gravities were assumed to be 2.75 for sulfide ore, 2.5 for oxide ore, or were calculated from the Fe, Pb, Cu, Zn contents of the samples when these element analyses were available. The specific gravities of well-mineralized samples were measured at the exploration site with a scale using weights in air and water.

Average grades were weighted for true width and specific gravity over an interval of 0.50m or the vein thickness if greater than 0.50m. Averaged intervals, their zone designations, and true widths are included in Table 4.

6.4 QUALITY CONTROL MEASURES

All drill core samples were split in order to leave part of the sample for future check sampling or inspection. Every twentieth sample was duplicated by taking a quarter split and assigning it the next sequential sample number. Table 6 shows the results of the duplicate analyses. The variability of the 2004 sample values ranges from 0% to 83% with an average of 25% indicating a significant nugget effect.

Table 6 DRILL DUPLICATE SAMPLE SUMMARY

		Geochemistry				*Assay*	
DUPLICATES		Sample	Duplicate			Sample	Duplicate
Orig	Dupl	Au ppb	Au ppb	Average	% Variablilty	Au gm/t	Au gm/t
Elk 2004							
SND04366-19	SND04366-20			6.9	6.0%	6.45	7.28
SND04367-11	SND04367-12	596.4	715.7	656.1	9.1%		
SND04368-10	SND04368-11	17.5	111.1	64.3	72.8%		
SND04369-10	SND04369-11	21.6	4.2	12.9	67.4%		
SND04371-7	SND04371-8	0.9	9.8	5.4	83.2%		
SND04371-26	SND04371-27	193.5	168.6	181.1	6.9%		
SND04373-15	SND04373-16	267.6	207.4	237.5	12.7%		
SND04373-36	SND04373-37	76.9	42.1	59.5	29.2%		
SND04374-10	SND04374-11	104.0	149.2	126.6	17.9%		
SND04375-14	SND04375-15	15.8	8.4	12.1	30.6%		
SND04375-34	SND04375-35	67.2	63.9	65.6	2.5%		
SND04375-54	SND04375-55	622.5	491.0	556.8	11.8%		
SND04377-2	SND04377-3	411.0	387.8	399.4	2.9%		
SND04379-7	SND04379-8	4.4	2.0	3.2	37.5%		
SND04380-1	SND04380-2	7.8	3.0	5.4	44.4%		
SND04380-21	SND04380-22	63.8	141.4	102.6	37.8%		
SND04381-10	SND04381-9	6.7	17.3	12.0	44.2%		
SND04381-29	SND04381-30	115.7	40.8	78.3	47.9%		
SND04382-11	SND04382-12	129.2	58.4	93.8	37.7%		
SND04382-31	SND04382-32	28.6	85.8	57.2	50.0%		
SND04383-10	SND04383-11	7.9	13.1	10.5	24.8%		
SND04384-11	SND04384-12	64.6	57.5	61.1	5.8%		
SND04385-10	SND04385-11	5.0	4.4	4.7	6.4%		
SND04385-30	SND04385-31			16.6	9.9%	14.98	18.27
SND04386-5	SND04386-6	27.8	17.6	22.7	22.5%		
SND04387-19	SND04387-20	142.4	33.5	88.0	61.9%		
SND04388-1	SND04388-2	133.9	91.8	112.9	18.7%		
SND04388-21	SND04388-22	63.4	24.0	43.7	45.1%		
SND04389-5	SND04389-6	3.2	5.0	4.1	22.0%		
SND04390-7	SND04390-8	2776.3	4130.0	3453.2	19.6%		
SND04391-7	SND04391-8	226.7	163.5	195.1	16.2%		
SND04392-10	SND04392-9	12.2	16.7	14.5	15.6%		
SND04393-13	SND04393-14	28.2	20.0	24.1	17.0%		
SND04396-7	SND04396-8	188.3	177.8	183.1	2.9%		
SND04398-12	SND04398-13	16.8	19.6	18.2	7.7%		
SND04402-3	SND04402-4	86.7	96.1	91.4	5.1%		
SND04403-6	SND04403-7			3.8	19.2%	4.56	3.09
SND04405-11	SND04405-12			0.2	16.1%	0.18	0.13
SND04405-31	SND04405-32			7.9	22.2%	9.62	6.12
SND04408-2	SND04408-3			1.1	26.0%	1.43	0.84
SND04409-6	SND04409-7	93.2	97.5	95.4	2.3%		
				Average:	**25.4%**		

Blank samples were submitted to the lab at the same frequency as the duplicates. The blanks were taken from unaltered granodiorite or quartz monzanite core that contained no quartz veining. The purpose of including blanks in the sample stream was to confirm that no contamination occurred in the sampling or

analysis procedures. Except for a single spike of 416 ppb from the 2003 sampling, the blanks indicate that contamination is not an issue. The results received since 2000 are shown in Table 7.

Table 7 **Drill Blank Sample Summary**

Samp#	Au ppb	Samp#	Au ppb	Samp#	Au ppb	Au gm/t
SND02310-21	5.3	SND03337-28	9.8	SND04369-12	0.5	
SND02311-27	3.8	SND03337-7	9.6	SND04371-28	4.5	
SND02311-47	3.3	SND03338-29	1	SND04371-9	<0.5	
SND02312-12	12.0	SND03338-9	75	SND04373-17	0.7	
SND02313-18	6.2	SND03339-20	3.8	SND04373-38	8.1	
SND02315-7	5.2	SND03339-41	0.5	SND04375-16	4.5	
SND02317-4	14.0	SND03339-60	5.2	SND04375-36	<0.5	
SND02318-4	7.1	SND03341-5	-0.2	SND04375-56	3.8	
SND02319-5	1.6	SND03342-24	2.2	SND04377-4	2.6	
SND02321-4	0.2	SND03342-4	35	SND04379-9	0.5	
SND02323-7	1.4	SND03343-16	3.9	SND04380-23	0.6	
SND02325-5	7.7	SND03345-5	5.4	SND04380-3	<0.5	
SND02325-27	0.1	SND03346-10	416.2	SND04381-11	<0.5	
SND02326-7	4.9	SND03347-12	11.7	SND04381-31	1.2	
SND02327-11	5.6	SND03349-11	5	SND04382-13	11.0	
SND02329-7	1.3	SND03349-31	1.9	SND04382-33	1.3	
SND02330-5	4.6	SND03351-16	2.3	SND04383-12	1.2	
SND02331-14	1.3	SND03351-36	9.7	SND04384-13	1.0	
SND02332-7	3.4	SND03352-4	0.7	SND04385-12	0.9	
SND02332-27	15.9	SND03354-15	1.5	SND04385-32		0.07
SND02334-6	1.0	SND03354-35	3	SND04386-7	<0.5	
SND02334-26	3.6	SND03355-13	7	SND04387-21	0.8	
SND02335-5	12.0	SND03355-33	0.3	SND04388-23	0.8	
SND02335-25	1.6	SND03356-20	10.5	SND04388-3	4.0	
SND00298-21	0.8	SND03358-11	62.3	SND04389-7	2.3	
SND00298-41	4.4	SND03358-31	16.1	SND04390-9	9.0	
SND00299-20	0.9	SND03359-8	2	SND04391-9	3.0	
SND00299-40	2.9	SND03361-4	17.9	SND04392-11	<0.5	
SND00300-7	3.7	SND03362-7	14.7	SND04393-15	2.0	
SND00301-8	8.9	SND03364-9	5.6	SND04395-19	2.2	
SND00302-6	36.6	SND03365-9	17.7	SND04396-9	19.6	
SND00303-11	0.5			SND04398-14	<0.5	
SND00304-6	9.8	SND04366-21	9.2	SND04402-5	3.6	
SND00308-5	0.4	SND04367-13	4.0	SND04403-8	7.5	
SND00309-18	0.3	SND04368-12	18.2	SND04405-13	1.8	
				SND04405-33		<0.01
				SND04408-4	2.1	
				SND04409-8	1.4	

Acme Analytical Labs provides re-samples as part of their analytical procedure. The results are listed below in Table 8. The original analyses/assays are listed in the "Sample Au ppb" column. Re-analyses/assays with sample cuts taken from the pulp are listed in the "RE Au ppb" column and those with

cuts taken from the reject are listed in the "RRE" column. The variability is calculated by taking the difference between the minimum and maximum values and dividing this by the mean of the sample results. The difference between results is due to the nugget effect typical of high grade gold systems.

Drill Sample Rerun Summary

Table 8	*Wet Geochem*					*Fire Assay*				
SAMPLE#	Sample Au ppb	RE Au ppb	RRE Au ppb	Average	% Variability	Sample Au gm/t	RE Au gm/t	RRE Au gm/t	Average	% Variability
SND04367-4						1.77	0.15	1.37	1.10	86.0%
SND04366-24	239.1	467.6	232.1	312.9	49.4%					
SND04368-5	1060.6	2074.7	783.3	1306.2	58.8%					
SND04370-3	185.9	255.7	129.5	190.4	34.3%					
SND04371-4	565.1	605.6	565.4	578.7	4.6%					
SND04372-12	125.3	108.2	96.1	109.9	14.0%					
SND04373-10	5.3	3.8	5.6	4.9	22.4%					
SND04373-40	88.7	1.16	90.5	60.1	98.1%					
SND04374-17	23227.9	28232	39261	30240.4	29.8%					
SND04374-51	25.9	28.4	35.5	29.9	18.6%					
SND04375-15	33.9	16.1	8.4	19.5	74.1%					
SND04375-51	13.1	17	27.1	19.1	42.1%					
SND04378-1	14.6	16.9	14.9	15.5	9.3%					
SND04380-5	140.8	206.7	163.6	170.4	21.3%					
SND04380-25	2.06	227.5	159.9	129.8	98.4%					
SND04381-15	3.9	1.2	1.9	2.3	67.1%					
SND04382-17	1605.2	2269.7	4434.7	2769.9	60.1%					
SND04382-36	10.6	11.4	4.6	8.9	48.1%					
SND04383-19	21	16.7	14.1	17.3	21.6%					
SND04385-16	4849.7	5425.8	3722.4	4666.0	20.2%					
SND40385-42	146.3	257.1	121.8	175.1	46.9%					
SND04387-30						0.97	1.14	1.77	1.29	36.9%
SND04386-15	18.1	15.6	13.6	15.8	14.8%					
SND04387-15	12.3	11.3	11.9	11.8	4.5%					
SND04389-3	5.8	8.9	6.9	7.2	23.6%					
SND04390-17	230.7	191.7	227.5	216.6	11.5%					
SND04393-11	703.4	704.3	299.6	569.1	47.4%					
SND04395-12	46.5	40.8	57.1	48.1	18.6%					
SND04402-7						0.17	0.18	0.12	0.16	23.4%
SND04400-6						53.86		56.73	55.30	2.6%
SND04398-11	0.8	1.4	2.9	1.7	70.6%					
SND04403-2	1.7	0.25	1.9	1.3	80.5%					
SND04405-27						0.02	0.01	0.01	0.01	50.0%
SND04406-8	1.7	1.4	9.8	4.3	127.9%					
				Average:	**42.7%**				**Average:**	**39.8%**

Standard pulp samples were included in the sample stream to check the consistency of the assay lab procedures. Two standards (9.9 g/t Au and 33.5 gm/t Au) were purchased from CDN Resource Laboratories Ltd. of Delta BC, and 10 gram samples were sent to Acme Analytical Labs at a frequency of about one per twenty drill core samples. Table 9 below lists the results of the standard assays and analyses.

Table 9 **Drill Sample Standard Summary**

Sample#	Au ppb	Deviation	Au gm/t	Deviation	Assay/Analysis	Au Standard	Sample Ship #	Report Number
SND04366-22	9509.8	0.00%			Wet Geochem	9.9+-.5 gm/t	ELK04-1	A402943
SND04367-14	35661.0	6.45%			Wet Geochem	33.5+-1.7gm/t	ELK04-1	A402943
SND04368-13			33.46	-0.35%	Fire Assay	33.5+-1.7gm/t	ELK04-1	A402941
SND04369-13	9588.2	0.00%			Wet Geochem	9.9+-.5 gm/t	ELK04-2	A403224
SND04371-29	10345.4	4.50%			Wet Geochem	9.9+-.5 gm/t	ELK04-2	A403224
SND04373-18			9.37	-0.32%	Fire Assay	9.9+-.5 gm/t	ELK04-3	A403633
SND04373-39	34041.0	0.00%			Fire Assay	33.5+-1.7gm/t	ELK04-3	A403634
SND04375-17	34187.0	0.00%			Wet Geochem	33.5+-1.7gm/t	ELK04-5	A404152
SND04375-37			10.24	0.00%	Wet Geochem	9.9+-.5 gm/t	ELK04-5	A404153
SND04375-57			34.16	0.00%	Wet Geochem	33.5+-1.7gm/t	ELK04-5	A404153
SND04377-5	9884.4	0.00%			Wet Geochem	9.9+-.5 gm/t	ELK04-6	A404685
SND04379-10	30512.6	-4.05%			Wet Geochem	33.5+-1.7gm/t	ELK04-6	A404685
SND04380-24	34983.1	0.00%			Wet Geochem	33.5+-1.7gm/t	ELK04-6	A404685
SND04380-4	8586.7	-8.65%			Wet Geochem	9.9+-.5 gm/t	ELK04-6	A404685
SND04381-12	9216.4	-1.95%			Wet Geochem	9.9+-.5 gm/t	ELK04-7	A405148
SND04381-32	31940.9	0.00%			Wet Geochem	33.5+-1.7gm/t	ELK04-7	A405148
SND04382-14	9617.6	-2.85%			Wet Geochem	9.9+-.5 gm/t	ELK04-7	A405148
SND04382-34	31972.0	0.00%			Wet Geochem	33.5+-1.7gm/t	ELK04-7	A405148
SND04383-13	9293.4	-1.13%			Wet Geochem	9.9+-.5 gm/t	ELK04-8	A405564
SND04384-14	34791.4	0.00%			Wet Geochem	33.5+-1.7gm/t	ELK04-8	A405564
SND04385-13	9607.5	-2.95%			Wet Geochem	9.9+-.5 gm/t	ELK04-8	A405564
SND04385-33			29.63	-6.82%	Fire Assay	33.5+-1.7gm/t	ELK04-8	A405662
SND04386-8	10397.0	0.00%			Wet Geochem	9.9+-.5 gm/t	ELK04-9	A406010
SND04387-22			33.68	0.00%	Fire Assay	33.5+-1.7gm/t	ELK04-9	A406008
SND04388-24	36102.1	2.56%			Wet Geochem	33.5+-1.7gm/t	ELK04-9	A406010
SND04388-4	9161.2	-2.54%			Wet Geochem	9.9+-.5 gm/t	ELK04-9	A406010
SND04389-8	10177.9	2.81%			Wet Geochem	9.9+-.5 gm/t	ELK04-9	A406010
SND04390-10	34558.3	0.00%			Wet Geochem	33.5+-1.7gm/t	ELK04-9	A406010
SND04391-10	9930.7	0.00%			Wet Geochem	9.9+-.5 gm/t	ELK04-9	A406010
SND04392-12	33713.9	0.00%			Wet Geochem	33.5+-1.7gm/t	ELK04-10	A406100
SND04393-16	9430.7	0.00%			Wet Geochem	9.9+-.5 gm/t	ELK04-10	A406100
SND04395-20	10177.4	2.80%			Wet Geochem	9.9+-.5 gm/t	ELK04-10	A406100
SND04396-10			34.46	0.00%	Fire Assay	33.5+-1.7gm/t	ELK04-10	A406098
SND04398-15	9963.0	0.64%			Wet Geochem	9.9+-.5 gm/t	ELK04-11	A406556
SND04402-6	10885.2	0.47%			Wet Geochem	9.9+-.5 gm/t	ELK04-11	A406556
SND04403-9	11067.0	0.64%			Wet Geochem	9.9+-.5 gm/t	ELK04-11	A406556
SND04405-14	33933.9	0.00%			Wet Geochem	33.5+-1.7gm/t	ELK04-12	A406853
SND04405-34			9.94	0.00%	Fire Assay	9.9+-.5 gm/t	ELK04-12	A406851
SND04408-5	33612.5	0.34%			Wet Geochem	33.5+-1.7gm/t	ELK04-12	A406853
SND04409-9	10630.2	0.22%			Wet Geochem	9.9+-.5 gm/t	ELK04-12	A406853
Average		**-0.08%**		**-0.94%**				

Note: Deviation from standards are calculated as follows: 1) If the result falls within the standard value plus or minus the error (31.8-34.2 gm/t or 9.4-10.4 gm/t) a zero deviation is assigned. The percentage deviation above the upper error limit or below the lower limit is calculated.

Standards provided by: CDN Resource Laboratories Ltd.
10945b River Road, Delta, B.C.

A series of samples were selected for check assay at ALS Chemex Labs in Vancouver. The pulps were sent from Acme to Chemex and assayed for gold. The samples were then re-numbered and returned to Acme for re-assay. Corellation between assays is very good as shown below in Table 10.

Table 10 DRILLCHECK SAMPLE SUMMARY

	Fire Assay					
	Acme	Chemex	Acme Blind			Avg Au gm/t
SAMPLE #	Au gm/t	Au gm/t	Rerun Aug m/t	Average	% Variablility	x % Var
SND04368-15	13.37	12.75	12.09	12.74	5.1%	0.65
SND04386-25	23.59	23.80	24.24	23.88	1.5%	0.36
SND04390-12	38.37	36.60	38.23	37.73	3.0%	1.13
SND04374-67	6.99	7.61	8.05	7.55	6.6%	0.50
SND04384-16	68.47	61.90	59.37	63.25	6.1%	3.88
SND04391-5	79.44	80.70	82.25	80.80	1.8%	1.45
SND04373-18	9.36	10.15		9.76	4.0%	0.39
SND04403-17	24.51	26.90	27.54	26.32	4.6%	1.22
SND04367-16	21.12	22.00	23.09	22.07	4.6%	1.02
SND04369-14	12.00	12.30	12.09	12.13	1.4%	0.17
SND04382-28	5.97	6.17	5.83	5.99	3.0%	0.18
SND04366-27	18.82	19.25	18.55	18.87	2.0%	0.38
SND04406-9	29.38	31.50	31.30	30.73	2.5%	0.77
SND04396-10	34.46	35.70		35.08	1.8%	0.62
SND04385-30	14.64	15.35	16.19	15.39	5.2%	0.80
SND04408-9	36.51	40.10	38.84	38.48	4.2%	1.62
SND04387-22	33.67	33.50		33.58	0.3%	0.08
SND04375-37	10.25	10.40		10.33	0.7%	0.07
SND04400-6	53.86	56.50	56.94	55.77	2.1%	1.17
SND04372-29	10.01	10.25	10.19	10.15	1.0%	0.10
Average:	**27.24**	**27.67**			**3.08%**	

7.0 TRENCHING

7.1 INTRODUCTION

Bedrock was exposed during road construction to provide access to drill sites in the Siwash East area (Figure 2). A total of 40m was mapped and sampled. Five rock grab, chip and panel samples and nine basal soil samples were collected. The exposure remains open and will be reclaimed on completion of the proposed drilling. A map of the trench is shown on Figure 3.

7.2 TRENCH RESULTS

Trench SE04-6 exposed quartz monzonite cut by an east-southeast trending andesite dyke. The quartz monzonite is weakly argillically altered throughout the trench and strongly altered near the contact with the dyke. The dyke is moderately to strongly argillically altered and is cut by faults running roughly parallel to the contacts. A series of narrow quartz veins cuts the quartz monzonite parallel to the dyke contact one to two metres to the north of the dyke. The veins vary from one to seven centimeters in thickness, dip steeply to the south and display 1 to 10% pyritic boxworks. The veins correlate well with the veins mapped in trench SE01-4, 20 metres to the east.

Almaden Minerals Ltd.

TRENCH SE04-6 SAMPLE RESULTS

Sample Number	Type	Length	Sample Dip	Dip Azimuth	Rock Type	Au gm/t	Ag gm/t
Rock Samples							
SE6-1	Cont Chip	0.5m	-13	330	GGCM	0.014	
SE6-2	Cont Chip	0.5m	0	104	X2QM/QV	0.015	
SE6-3	Panel	0.5x0.5m	0	110	Y2QV/AD	1.05	5
SE6-4	Grab				Y2QV	23.95	38
SE6-5	Cont Chip	1.0m	0	110	QV	0.013	
Soil Samples						**Au ppb**	
SE6-S1	Basal Soil					72.4	
SE6-S2	Basal Soil					36.7	
SE6-S3	Basal Soil					853.2	
SE6-S4	Basal Soil					9.8	
SE6-S5	Basal Soil					8.2	
SE6-S6	Basal Soil					44.3	
SE6-S7	Basal Soil					30.4	
SE6-S8	Basal Soil					14.7	
SE6-S9	Basal Soil					29.4	

695050E

UTM NORTH

MOD/STRONG FRAC
MInor local silicification

SE6-S6 SE6-S7 SE6-S8 SE6-S5 SE6-S4 SE6-S3 SE6-S2 SE6-S1 SE6-S9

A1QM A2QM A1QM A1QM A2QM A3QM A4AD A3QM A5AD A3QM (K2QM) A1QM

SE6-5 SE6-4 SE6-2 SE6-3

QV 1cm QV 1cm Y3QV 7 cm QV 3cm

MOD FRACT 10

A5AD STRONGLY FRACT

SE6-1

MOD STRONG FRACT 125/16S

40 35 30 25 20 15 10 5 0

Drill Access Road

5526050N

LEGEND

LITHOLOGY

TERTIARY

- AD ANDESITE DYKE — dark greyish-green to olive green, fine-grained to weakly porphyritic
- GG GOUGE — clay-rich with numerous rock fragments, shear foliation or banding may be evident
- QV QUARTZ VEIN — white to grey quartz with some ankerite; commonly 10% to 20 pyrite, pyrrhotite, sphalerite, galena, tetrahedrite; rare visible gold

JURASSIC

OSPREY LAKE BATHOLITH

- QM QUARTZ MONZONITE — light to medium pinkish grey,medium to coarse grained equigranular with up to 10% biotite or hornblende

GEOLOGICAL CONTACT

SE6-3 PANEL SAMPLE

SE6-2 CONTINUOUS CHIP SAMPLE

SE6-S3 BASAL SOIL SAMPLE

ALTERATION CODES

A(n)	ARGILLIC	P(n)	PROPYLITIC
F(n)	PHYLLIC	S(n)	SERICITIC
PK	K-spar STABLE PHYLLIC	SK	SKARN
K(n)	POTASSIC	X(n)	SILICIFICATION
B(n)	ALBITIC		

(n = 1 TO 5, WEAK TO INTENSE)

ALTERATION CONTACT

SULFIDE CONTENT CODES (quartz veins)

vg	visible gold
Y1	less than 1% sulfide 1% to 5
Y2	5 - 10% sulfide
Y3	10 - 20% sulfide
Y4	20 - 30% sulfide
Y5	greater than 30% sulfide

Note: Trench 0.0m point at 695057E, 5526052N, 1672m el NAD27

ALMADEN MINERALS LTD.
1103 - 750 West Pender Street Vancouver, British Columbia V6C 2T8

ELK PROPERTY
Similkameen Mining Division, British Columbia
NTS 92H/16W

SIWASH EAST AREA
TRENCH SE04-6

SCALE 1 : 100

Drawn by WJ
March, 2004

Figure 3

8.0 GEOPHYSICS

8.1 INTRODUCTION

A ground magnetometer survey was carried out over the area covering the Siwash East immediately to the east of the Siwash North area. A total of 15.8 line kilometres was surveyed on lines 1500m long spaced at 100 metres. The work was carried out by SJ Geophysics of Delta BC on September 26, 2004, with report preparation completed in January of 2005.

8.2 GEOPHYSICAL SURVEY RESULTS

The goal of the survey was to determine the continuity of andesite dykes associated with gold bearing quartz veins between the Siwash North and Siwash East areas. A linear magnetic low coincides with the southeast trending andesite dyke mapped in the Siwash east area that is associated with mineralized quartz veins. A week magnetic low trend suggests that the dyke projects through to the Siwash North area in the vicinity of an andesite dyke that crosses the B vein at about 100m east of the East Waste Dump. The SJ Geophysics report is attached in Appendix "D".

9.0 LIST OF PERSONNEL & CONTRATORS

PERSONNEL:	Position	Field Dates Worked
C. Chung Burnaby, B.C.	Core Logger	June 7 – Sept.2, 2004
R. Harwood New Denver, B.C.	Core Handler	June 7 – Oct. 30, 2004
J. Hylands West Vancouver, B.C.	Core Logger	Sept. 20 – Oct. 30, 2004
W. Jakubowski Vancouver, B.C.	Geologist	June 7 – Oct. 30, 2004

CONTRACTORS	Position	Dates Worked
Leclerc Diamond Drilling Ltd Cranbrook, B.C.	Diamond Drilling	8 men: June. 6 – Nov 1, 2004
Elkhart Lodge Limited Merritt, B.C.	Drill Site Prep, Reclamation Logging and Road Construction Caterpillar 325 Excavator w Processor Head	1 man: Sept. 24– 30, 2004
Jaeden Resources Ltd. Merritt, B.C.	Drill Site Prep Komatsu PC250LC Excavator	1 man: July 2-20, 2004

10.0 STATEMENT OF QUALIFICATIONS

I, Wojtek Jakubowski, of Vancouver, British Columbia, hereby certify that:

1. I am a professional geoscientist residing at #303 639 West 14th Avenue and employed by Almaden Minerals Ltd. of 1103 - 750 West Pender Street, Vancouver, B.C., V6C 2T8.

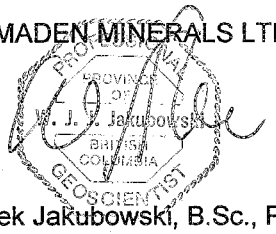
2. I received a B.Sc. degree in Geological Sciences from McGill University, Montreal, Quebec in 1979.

3. I have practiced my profession for 27 years in Quebec, Northwest Territories, Yukon Territory, British Columbia and Mexico.

4. I am a member of the Association of Professional Engineers and Geoscientists of the province of British Columbia, registration number 19563.

5. I am the author of this report and the supervisor of the field work conducted on the ELK mineral claims by Almaden Minerals Ltd. during the period June 3, 2004 to October 30, 2004.

ALMADEN MINERALS LTD.



Wojtek Jakubowski, B.Sc., P. Geo

11.0 STATEMENT OF COSTS

Elk Property 2004 Diamond Drill Program Cost Summary

DIAMOND DRILLING		Rate $	Total	
Mob Demob			$4,000	
Logging, Site Prep	89 hr@	$110.00	$9,778	
Diamond Drill Holes 365-409	10265 m@	$62.24	$638,850	
Downhole and Surface Survey Equip	4.3 mo@	$1,774.95	$7,632	$660,260
SAMPLE ASSAY AND ANALYSIS		Rate $	Total	
Drill Core Au,Ag Metallics 500gm(6)	62 smp@	$22.40	$1,389	
Drill Core Au, Ag FA1AT(8)	118 smp@	$13.20	$1,558	
Drill Core 35 el ICP(1DX)	165 smp@	$8.93	$1,473	
Drill Core Au 15gm (3A)	828 smp@	$7.23	$5,986	
Sample Prep	987 smp@	$4.46	$4,402	$14,808
PERSONNEL		Rate $	Total	
Geologist	120 days@	$300.00	$36,000	
Geologist - Core logger June - Sept	78 days@	$207.44	$16,180	
Geologist - Core logger Sept - Oct	37 days@	$300.00	$11,100	
Field Assistant - Core handler	120 days@	$235.00	$28,200	$91,480
GENERAL EXPENSES		Rate $	Total	
Equipment and supplies			$4,565	
Accomodation & Food	203 days@	$65.00	$27,925	
Truck rental	90 days@	$90.00	$9,472	
Fuel			$2,402	
Freight			$909	
Reclamation			$330	
Office supplies and printing			$1,400	
Recording fees			$1,500	
Telephone and postage			$2,374	
Travel			$960	$51,837

TOTAL $818,386

12.0 REFERENCES

MONGER, J.W.H.:
1989: Geology, Hope, British Columbia; Geological Survey of Canada, Map 41-1989, sheet 1, scale 1:250,000

PANTLELEYEV, A.:
1986: Ore Deposits #10. A Canadian Cordilleran Model for Epithermal Gold Silver Deposits; Geoscience Canada, Vol. 13, No. 12, pp. 101-111.

RICE, H.M.A.:
1947: Geology and Mineral Deposits of the Princeton Map Area, British Columbia; G.S.C., Memoir 243.

Appendix "A"

PetraScience Consultants Inc. Petrographic Report

PETROGRAPHIC REPORT

9 February 2005

Prepared For:
Wojtek Jakubowski
Almaden Minerals Ltd.
Suite 1103-750 West Pender St.
Vancouver, B.C. V6C 2T8

PetraScience Consultants Inc.

700 – 700 West Pender Street
Vancouver, B.C. V6C 1G8 Canada
phone: 604.684.5857 fax: 604.222.4642

info@petrascience.com
www.petrascience.com

Background

Two samples were received from Wojtek Jakubowski of Almaden Minerals Ltd. The samples were prepared as polished thin sections for petrographic analysis. No detailed geologic or spatial information was. The petrographic work included basic transmitted and reflected light observations, covering description of lithologies (where possible), alteration and mineralization. Anne Thompson and Alexandra Mauler carried out the analysis at the PetraScience office, Vancouver, B.C. The observations are summarized below and descriptions follow. All percentages in the descriptions are approximate.

Summary

The two samples both represent felsic igneous rocks with mineralogy consistent with alkali granite compositions (see photo of chips below). Sample SND 372 @ 241 is fine grained, with K-feldspar grains less than 1mm across. Sporadic grains of larger plagioclase occur throughout. The sample appears to contain slightly more plagioclase than in sample SND 386 @ 10.3. The second sample is coarse grained and also exhibits perthitic textures. Accessory minerals in both include rutile and apatite.

Both samples are altered by carbonate (typically pale brown, no fizz reaction) and fine sericite. Sulfides are minor, with pyrite dominating over chalcopyrite.

Sample 372 @ 241 (left) and SND 386 @ 10.3 (right), showing distribution of K-feldpsar (yellow stain) and variation in grain size. Chips are approximately 2.6 by 4.6 cm in size.

Sample: SND 386 @10.3

LITHOLOGY: Alkali-granite
ALTERATION TYPE: Muscovite-carbonate

Hand Sample Description:
Leucocratic coarse-grained rock (5-10mm) mainly containing vitrous quartz and K-feldspar, as shown by yellow cobaltinitrite stain. Traces of sulfides are disseminated throughout. Not magnetic and no reaction to HCl.

MAJOR MINERALS

Mineral	%	Distribution & Characteristics	Optical
Quartz	35	Large anhedral grains, locally fine-grained associated with carbonate	
K-feldspar	35	Large anhedral grains, typically zoned and locally exhibiting perthitic textures	
Muscovite (sericite)	15	Fine laths, locally as fan-like aggregates, or very fine-grained sericite aggregates replacing feldspars ; also replaces likely biotite with rutile and carbonate	

MINOR MINERALS

Mineral	%	Distribution & Characteristics	Optical
Carbonate	05	Very-fine grained anhedral patches typically associated with fine-grained quartz and Fe-oxides as replacement of feldspar; also lining irregular fracture zone and rimming pyrite	*pale brn*
Plagioclase	05?	Subhedral interstitial grains	*twins*
Pyrite	01	Fine rounded to angular crystals; disseminated, commonly rimmed by and associated with Fe-oxides; also interstitial	
Fe-oxides	tr	Rims around pyrite, fine laths associated with carbonate aggregates in feldspars	
Rutile	tr	as replacement of biotite; also in clusters of fine needles (rutilated quartz)	
Apatite	tr	fine grains and needles throughout	
Chalcopyrite	tr	rare fine grains	

Thin Section Description:
The sample is a subhedral granular alkali granite, mostly composed of coarse-grained quartz and alkali feldspars with minor plagioclase and pyrite. Alteration is marked by the presence of very-fine carbonate-quartz-Fe oxides aggregates developing within igneous quartz and feldspars and by the bleb-like intergrowth of muscovite laths and sericite aggregates within feldspar cores. Carbonate and mica alteration occur with rutile as replacement of probable biotite grains.

A

B

SND 386 @10.3: A) Large altered K-feldspar grains with pyrite in centre. Fine dark material in irregular zones is carbonate. PPL; B) Circular zone of alteration in plagioclase grain contains quartz, rutile, carbonate and fine mica.. XPL, FOV = 6mm.

Sample: SND 372 @241

LITHOLOGY: Alkali Granite
ALTERATION TYPE: Sericite, carbonate; ?clay

Hand Sample Description:
Fine-grained grey to white rock containing numerous K-feldspars crystals (<1mm) as indicated by yellow cobaltinitrite stain. Traces of sulfides are visible. Not magnetic and no reaction to HCl.

MAJOR MINERALS

Mineral	%	Distribution & Characteristics	Optical
K-feldspar	35	Fine anhedral grains, typically zoned and/or twinned	
Quartz	30	Fine anhedral grains; minor recrystallization textures	
Plagioclase	10	Fine anhedral grains typically zoned and/or twinned	*twins*

MINOR MINERALS

Mineral	%	Distribution & Characteristics	Optical
Phlogopite/Mica	05	Fine and flaky, rimmed by clay, carbonate, rutile along borders and cleavage planes	
Sericite/illite	05	Very fine-grained laths replacing feldspar cores	
Carbonate	05	Very fine-grained masses locally replacing feldspars	
Clay	05	Aphanitic brown masses partially replacing original muscovite?	
Pyrite	01	Disseminated fine anhedral masses, commonly rimmed by and associated with Fe-oxides	
Fe-oxides (hematite)	01	Rims around pyrite, fine laths associated with carbonate aggregates in feldspars	
Chlorite	tr	minor flakes, grains associated with mica and sulfide	
Chalcopyrite	tr	aggregates, fine grains, with pyrite	
Apatite	tr	disseminated tabular fine grains	
Zircon	tr	one grain	

Thin Section Description:
The mineralogical composition of the sample is similar to the one of the previous sample, mainly consisting of quartz, K-feldspar and minor plagioclase. A major difference between the samples lies in the grain size, this sample being dominantly fine-grained. Feldspars (plagioclase) grains occur throughout that are larger than the groundmass. Alteration is characterized by the presence of carbonate and sericite, however the sericite is also partly altered to clay along cleavages and grain boundaries. Fe-oxides (typically hematite) occur as replacement of pyrite. Both the clay and Fe-oxide features suggest a stronger weathering in this sample than the previous one.

A

B

SND 372 @241: Representative views showing fine-grained subhedral granular quartz, K-feldspar and plagioclase. A large plagioclase phenocryst is present on the right side of photo B. A) PPL, B) XPL, FOV = 6 mm.

Appendix "B"

SJ Geophysics Magnetometer Survey on the Elk Property

GEOPHYSICAL REPORT

MAGNETOMETER SURVEY

ON THE

ELK PROPERTY

FOR

ALMADEN MINERALS LTD.

ELK PROJECT 2004
5525705N 694471E - NAD83 ZONE10 (APPROX. CENTRE OF GRID)

Location: 45km southeast of Merrit in Southern British Columbia

NTS Sheet: 92H/16W

Mining Zone: SIMILKAMEEN Mining Division

SURVEY CONDUCTED BY
SJ GEOPHYSICS LTD.
SEPTEMBER 2004

REPORT WRITTEN BY
SHAWN RASTAD/BRIAN CHEN
S.J.V. CONSULTANTS LTD.
JANUARY 2005

Table of Contents

ILLUSTRATIONS

1. Introduction

This report describes the ground geophysical exploration project that was undertaken for Almaden Minerals Ltd. on its Elk Property. A magnetometer survey was conducted by SJ Geophysics Ltd. on September 26th, 2004. The region has been extensively explored and is the site of the Siwash Gold Mine. The magnetic data was gathered to provide additional information in confirming results from previous exploration work and hopefully be able to accurately locate and map these pyritic quartz veins. This report describes the field methodology, the post processing done on the magnetic data and a brief discussion of the result. This report does not cover items such as discussion of the background geology, costs associated with the survey or provide a detailed geological interpretation.

2. Location and Line Information

The property is located 45km southeast of Merrit in southern British Columbia. The geophysical crew were provided accommodation by Almaden Minerals Ltd. The grid was situated just outside the Siwash Gold Mine site.

The project consisted of a single grid consisting of 10 lines. The lines consisted of 100m separation and were labeled 3100E through to line 4000E. The lines extended 1500m (3000N – 4500N) in length with pickets placed every 25m along the line. An 11th line (3950E) was included between lines 3900E and 4000E and extended approximately 800m. The total linear kilometers for the entire was approximately 15800 meters. Figure 1 shows a simple grid map of the magnetic survey.

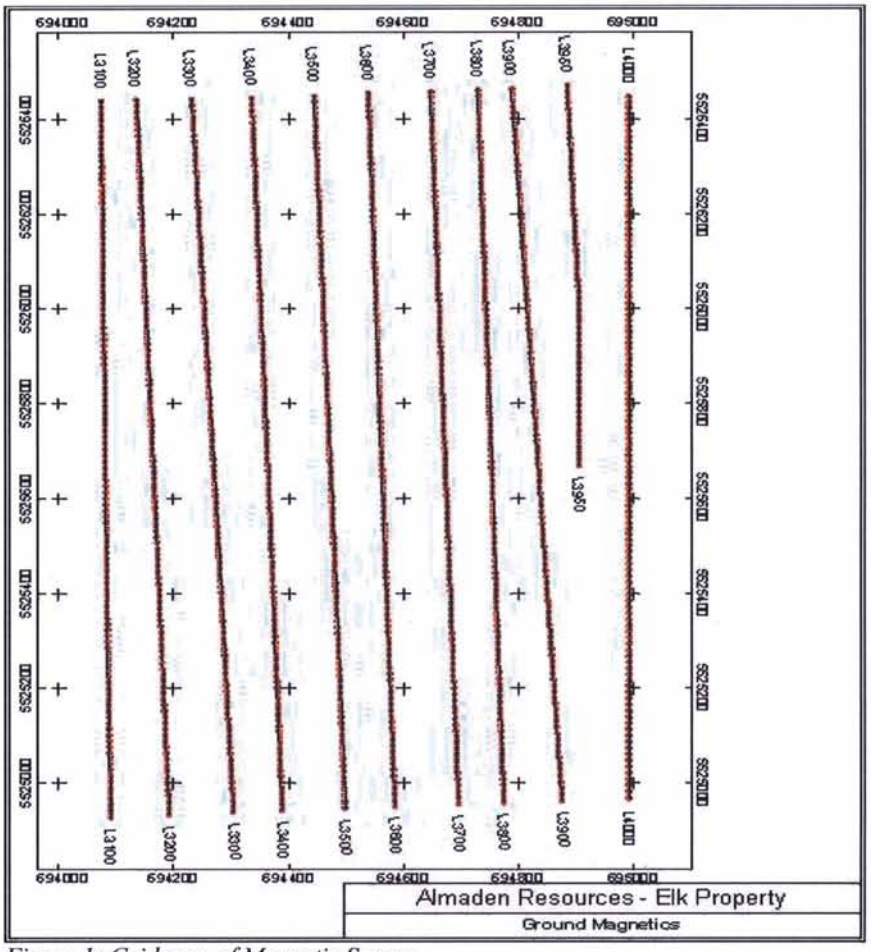


Figure 1: Grid map of Magnetic Survey

3. Field Work and Instrumentation

The SJ Geophysics Ltd. crew consisted of two SJ Geophysics Ltd. employees: Dominic Kot and Tony Cade. The crew mobilized from Crand forks on the 25th of September and met with the client representative on site that evening. The entire magnetic data set was collected on September 26th at 12.5m intervals. Location data (GPS) was provided to the crew by Almaden Minerals Ltd.

The magnetic survey was conducted using three EDA Omni-Plus magnetometers. Two mobile units were used to gather the data, while a third magnetometer was used as a base station.

The diurnal corrections were applied back in the offices of SJ Geophysics Ltd. and performed by Cameron Wallace. Figure 2 shows the daily variation of approximately 25nT during the 9 hours of recording time as recorded by the base station.

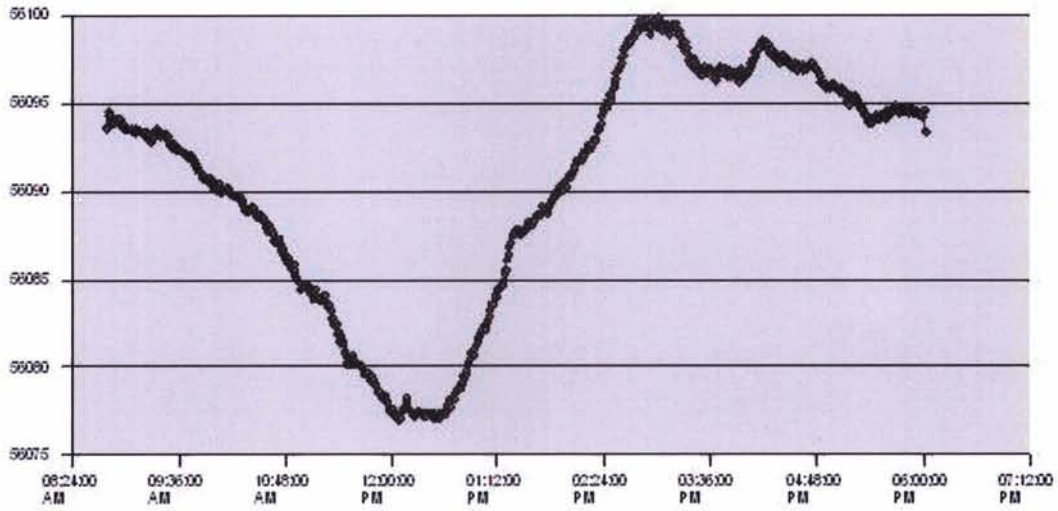


Figure 2: Magnetic variation at base station

During the processing of the data, it was determined that 500m of line 4000E had poor quality data and as a result it was decided to remove this from the data set. The final data is represented as a false colour contour plan map and is shown as Figure 3.

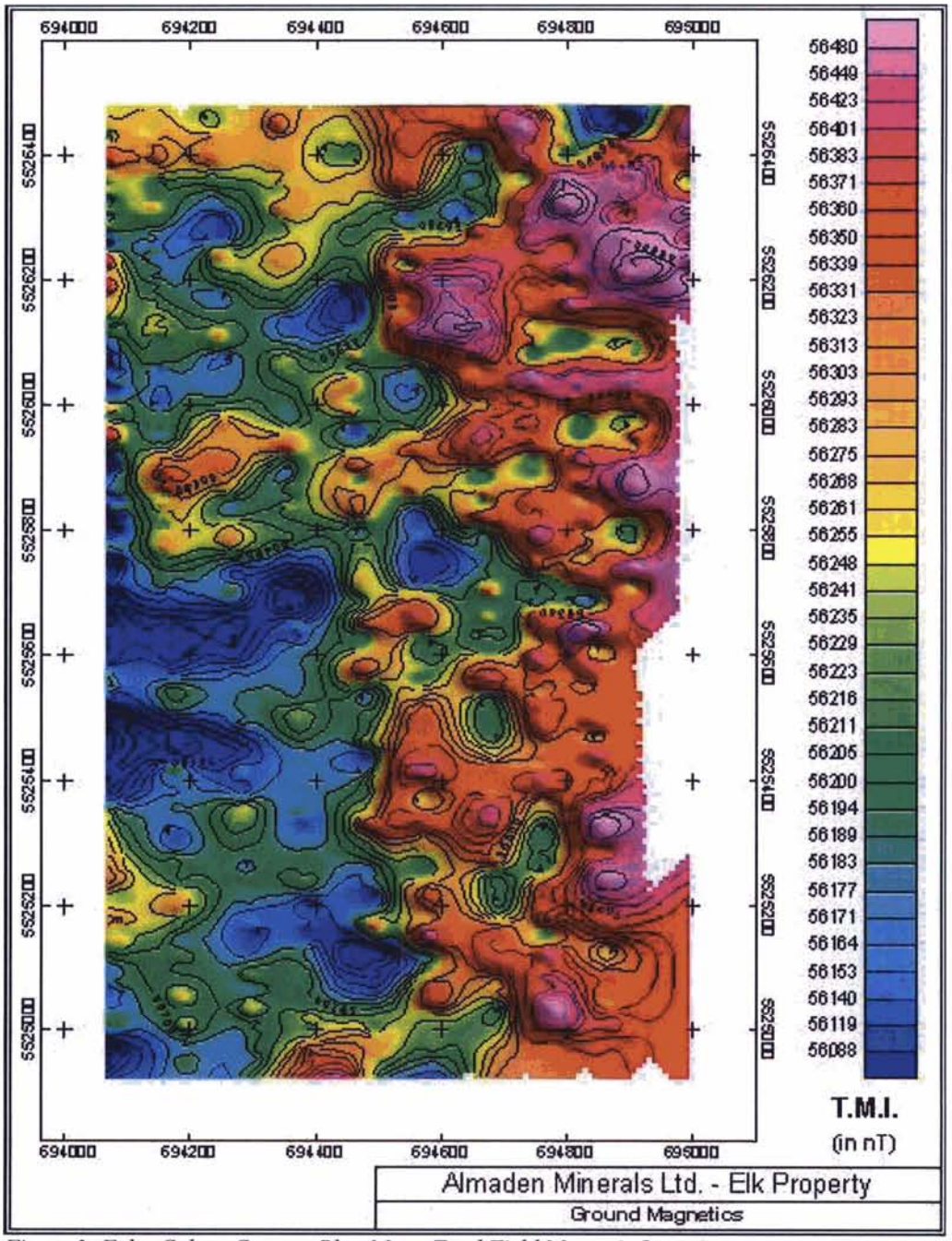


Figure 3: False Colour Contour Plan Map - Total Field Magnetic Intensity

4. GEOPHYSICAL TECHNIQUES

4.1. Magnetic Survey Method

Magnetic intensity measurements are taken along survey traverses (normally on a regular grid) and are used to identify mineralization that is related to magnetic materials (normally magnetite and/or pyrrhotite). Magnetic data are also used as a mapping tool to distinguish rock types, identify faults, bedding, structure and alteration zones. Line and station intervals are usually determined by the size and depth of the exploration targets.

The magnetic field has both an amplitude and a direction and instrumentation is available to measure both components. The most common technique used in mineral exploration (which was used on this project) is to measure just the amplitude component using a proton precession magnetometer. The instrument digitally records the survey line, station, total magnetic field and time of day at each station. This information is typically downloaded to a computer at the end of each day for archiving and further processing.

The earth's magnetic field is continually changing (diurnal variations) and field measurements must be adjusted for these variations. The most accurate technique is to establish a stationary base station magnetometer that continually monitors and records the magnetic field for the duration of the survey. The base station and field magnetometers are synchronized on the basis of time and computer software is used to correct the field data for the diurnal variations.

5. Interpretation and Discussion

The magnetic data for the grid varies mildly, with total field magnetic intensity amplitude varying approximately 400nT. The magnetic distribution of this grid is characterized by high values in the east portion of the grid and low value in the west portion of the grid . Both the high and low value areas show some pattern of fragmentation.

A north-south striking linear magnetic contact appears to separate the high and low value in the middle of the grid. This linear contact runs through the entire length of the grid. Please refer to Figure 4 for details. It's denoted by a white dashed line AA' in the figure. This may suggest either the rock unit changes from the east to west portion of the grid or the same rock unit dips westward and is overlaid by a layer of overburden with low magnetic susceptibility material.

The high value area is interveined by low value structures in the east part while in the west portion of the grid high value features scatter in the low value background area. Some of the ridges of the high value in the grid illustrate near parallel linear extension pattern. Please refer to Figure 4 for details. The yellow dashed lines which are the connections of high value peaks show that one group of NE-SW trending sub-parallel linear features is cut by another SE-NW trending near parallel linear features. The light cyan line demonstrates one of the noticeable linear extensions of low values. This may suggest some geological reason.

Because of lacking geological information and topographic data in this grid. It's difficult to associate the magnetic anomalies with geological units or target. The magnetic survey result should be correlated with existing geological, geochemical and other geophysical data in order to provide a better interpretation.

Respectfully submitted,
Per S.J.V. Consultants Ltd.

Shawn Rastad
Geophysicist

Brian Chen
Geophysicist

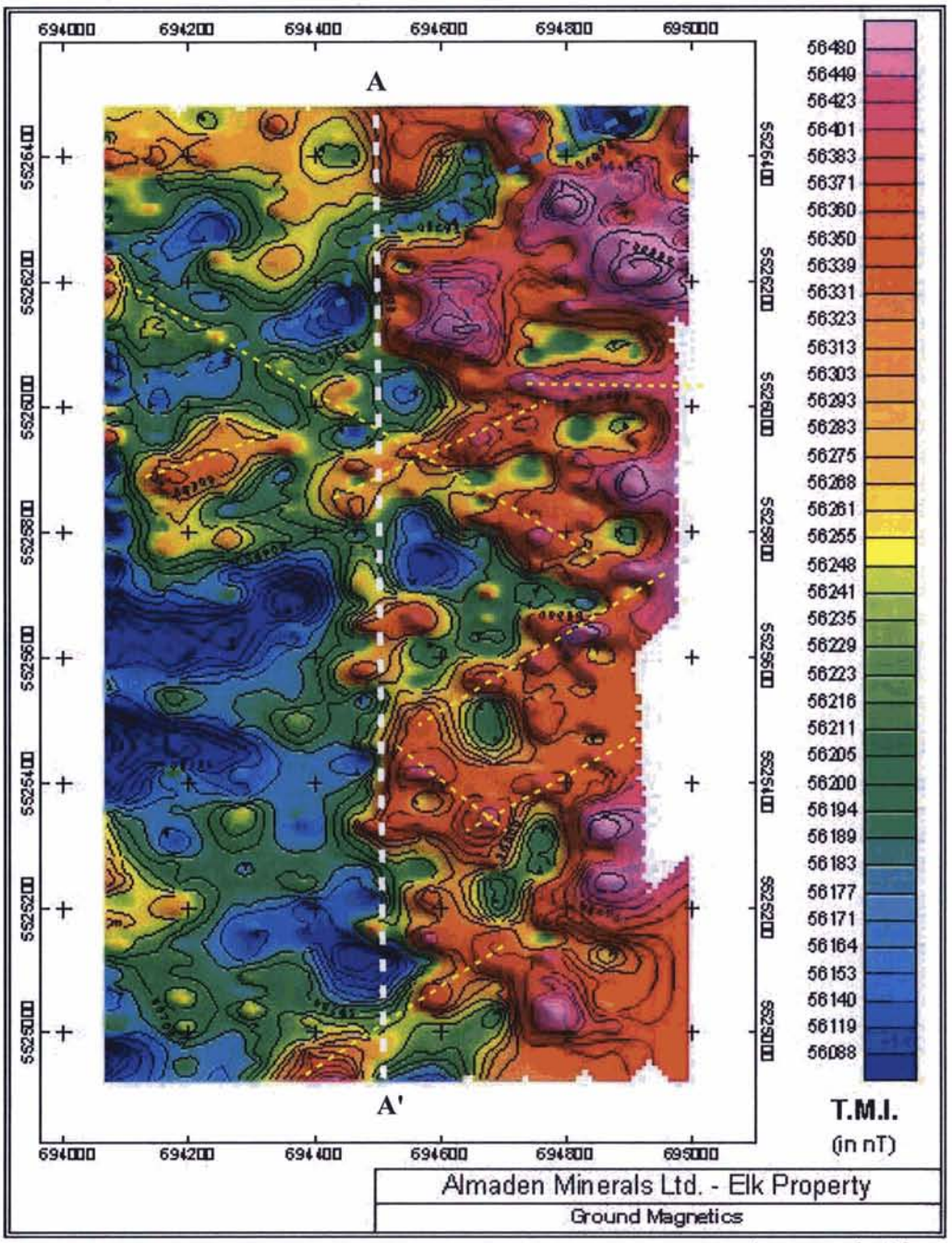


Figure 4: False Colour Contour Plan Map - Total Field Magnetic Intensity (Annotated with Trend Identifiers)

6. Appendix 1 – Statement of Qualifications

6.1. Shawn Rastad

I, Shawn Rastad, of the city of Coquitlam, Province of British Columbia, hereby certify that:

1. I graduated from the University of British Columbia 1996 with a Bachelor of Science degree majoring in geophysics.
2. I have been working in mineral and oil exploration since 1997.
3. I have no interest in Almaden Minerals Ltd., or in any property within the scope of this report, nor do I expect to receive any.

Signed by: _____

Shawn Rastad, B.Sc.
Geophysics

Date: _____

6.2. Brian Chen

I, Brian Chen, of the city of Delta, Province of British Columbia, hereby certify that:

1. I graduated from the University of Science and Technology of China in 1989 with a Bachelor of Science degree in geophysics and from South China Sea Institute Of Oceanology, CAS in 1992 with a Master of Science degree in Mathematical geology.
2. I have been working in geophysics since 1992.
3. I have no interest in Almaden Mineral Ltd., or in any property within the scope of this report, nor do I expect to receive any.

Signed by: _____

Brian Chen
Geophysicist

Date: _____

7. APPENDIX 4 – INSTRUMENT SPECIFICATIONS

7.1. EDA OMNI-PLUS MAGNETOMETER

Operating modes	Total field, base, tie-line
Operating temperature	-45 to +50 deg. C.
Sensor	Proton precession
Dynamic range	18,000 – 110,000 gammas
Tuning	Automatic over entire range
	+/- 15% relative to ambient field of last stored total field
Polarizing cycle	Microprocessor controlled
Processing sensitivity	+/- 0.02 gammas
Resolution	0.1 gammas
Absolute accuracy	+/- 1 gamma at 50,000 gammas at 23 deg. C +/- 2 gammas over total temperature range
Statistical error reject threshold	0.2 gammas
Statistical error resolution	0.01 gammas
Memory	
Field	1300 readings
Tie-line points	100 readings
Base station	5500 readings

Input voltage:	120V / 60 Hz or 240V / 50Hz (optional)
Output power:	1.4 kW maximum.
Output voltage:	150 to 2000 Volts
Output current:	5 ma to 10Amperes
Time domain:	Transmission cycle is 2 seconds ON, 2 seconds OFF
Operating temp. range	-40^0 to $+65^0$ C
Display	Digital LCD read to 0.001A
Dimensions (h w d):	34 x 21 x 39 cm
Weight:	20kg.

Appendix "C"

Assay and Analytical Results from Core Samples

ACME ANALYTICAL LABORATORIES LTD. 852 E. HASTINGS ST. VANCOUVER BC V6A 1R6 PHONE(604)253-3158 FAX(604)253-1716
(ISO 9002 Accredited Co.)

GEOCHEMICAL ANALYSIS CERTIFICATE

Almaden Minerals Ltd. PROJECT ELK File # A402941

1103 - 750 W. Pender St., Vancouver BC V6C 2T8

SAMPLE#	Mo ppm	Cu ppm	Pb ppm	Zn ppm	Ag ppm	Ni ppm	Co ppm	Mn ppm	Fe %	As ppm	U ppm	Au ppb	Th ppm	Sr ppm	Cd ppm	Sb ppm	Bi ppm	V ppm	Ca %	P %	La ppm	Cr ppm	Mg %	Ba ppm	Ti %	B ppm	Al %	Na %	K %	W ppm	Hg ppm	Sc ppm	Ti ppm	S %	Ga ppm	Se ppm	Ag** gm/mt	Au** gm/mt
SI	<.1	6.6	.3	1	<.1	6.1	.7	<1	.06	.6	<.1	<.5	<.1	2	<.1	<.1	<.1	<1	.10	<.001	<1	<1	<.01	3	<.001	<1	.01	.564	<.01	<.1	<.01	<.1	<.1	<.05	<1	<.5	<2	.01
SND 366-4	3.6	190.0	259.3	239	8.4	7.9	14.7	832	5.45	101.6	13.1	4223.0	6.7	5	1.7	.3	4.1	8	.18	.053	16	3.8	.11	28	.001	2	.29	.010	.30	.5	.01	1.4	.1	4.13	1	.5	10	4.22
SND 366-10	2.2	242.8	9.4	51	1.4	4.9	5.6	605	4.42	81.6	8.1	402.7	7.8	6	.3	.2	.6	13	.18	.048	9	3.5	.15	38	.013	1	.40	.017	.30	.1	<.01	2.1	.1	2.95	1	<.5	<2	.67
SND 366-15	2.8	316.2	6.9	61	3.3	3.8	7.3	986	5.84	55.5	3.3	3534.3	6.8	3	.4	.1	1.6	5	.19	.039	7	3.7	.17	28	.002	<1	.41	.007	.32	.6	<.01	1.0	.1	3.31	1	<.5	3	3.35
SND 366-19	2.1	2864.2	5.3	125	4.7	2.5	4.8	834	6.16	23.6	3.3	3436.2	7.8	5	2.2	.2	4.3	9	.19	.042	7	2.8	.21	31	.002	1	.38	.013	.28	.2	<.01	2.0	.1	3.44	1	.7	6	6.45
SND 366-20	2.2	1790.8	6.5	76	4.9	3.1	4.0	893	4.46	19.4	3.7	2574.8	8.3	5	.8	.1	4.6	8	.19	.043	8	3.6	.22	31	.002	1	.38	.011	.26	.5	<.01	2.1	.1	1.69	1	<.5	3	7.28
SND 366-27	2.4	405.2	121.2	83	17.4	2.9	6.6	779	4.41	933.4	5.6	21000.0	7.6	6	1.1	1.0	8.2	11	.21	.042	8	2.9	.17	37	.006	1	.38	.015	.27	.1	<.01	2.4	.1	2.28	1	<.5	15	18.84
SND 367-4	10.3	181.9	194.4	267	3.8	2.6	24.7	885	4.47	121.5	12.6	1799.0	5.7	13	2.1	.6	1.0	10	.27	.059	18	2.7	.24	38	.001	1	.28	.017	.17	.6	<.01	2.0	.1	2.83	1	<.5	3	1.77
RE SND 367-4	10.3	181.5	193.7	269	4.2	2.7	24.0	893	4.52	119.8	12.6	1660.0	5.2	12	2.2	.6	1.0	10	.26	.058	16	2.7	.25	38	.001	2	.28	.017	.18	.5	.01	2.1	.1	2.75	1	<.5	4	1.54
RRE SND 367-4	10.9	179.7	208.1	292	3.8	2.3	29.2	874	4.94	142.0	14.1	1458.0	5.1	12	1.9	.7	1.2	11	.27	.048	16	1.5	.24	38	.001	1	.33	.017	.19	.1	.01	2.0	.1	3.14	1	<.5	3	1.37
SND 367-6	5.5	177.8	102.9	91	1.9	2.1	5.4	936	3.91	86.2	34.9	501.4	10.1	15	2.3	.1	.3	5	.22	.057	19	2.8	.17	39	.001	1	.34	.008	.27	.5	<.01	1.3	.1	2.30	1	<.5	<2	.15
SND 367-8	2.3	319.9	341.0	151	4.1	3.6	6.5	1064	8.59	198.9	9.1	705.9	8.2	5	1.3	.2	2.0	6	.21	.043	10	1.9	.14	15	.001	1	.37	.008	.34	.2	<.01	1.7	.1	6.93	1	.6	4	1.47
SND 367-16	1.2	572.7	95.8	93	17.7	2.0	4.2	620	4.19	27.5	4.4	23000.0	7.8	2	2.5	<.1	19.8	1	.11	.015	5	3.8	.07	22	.001	<1	.23	.004	.20	.8	<.01	.6	.1	2.64	1	<.5	15	21.11
SND 367-21	1.6	697.7	194.9	2880	82.3	4.3	8.5	469	7.09	2211.8	5.4	46550.0	4.1	2	66.7	1.9	72.4	3	.08	.019	2	5.2	.06	17	.001	<1	.20	.004	.19	.4	.03	.8	.1	6.13	1	.5	94	57.52
SND 368-9	3.6	1163.2	135.7	641	5.5	1.9	5.1	630	3.06	63.3	11.1	2155.0	9.2	12	20.0	.4	2.0	8	.19	.046	16	2.6	.16	55	.001	1	.32	.010	.21	.3	.06	1.7	.1	1.76	1	<.5	6	3.12
SND 368-13 PULP	22.2	57.0	439.8	36	4.9	1390.3	31.4	414	2.34	49.4	.5	34000.0	3.2	18	.2	.5	4.9	33	.48	.031	13	1742.2	.61	150	.048	5	.99	.049	.32	14.4	.03	2.2	.1	<.05	3	<.5	4	33.46
STANDARD DS5/R-2a/AU-1	12.3	137.4	23.8	140	.3	25.6	11.9	782	2.99	22.7	6.2	42.0	2.5	45	5.5	3.4	6.4	62	.76	.089	11	186.1	.68	137	.109	19	2.08	.034	.14	4.9	.18	3.5	1.1	<.05	7	5.0	157	3.28

GROUP 1DX - 0.50 GM SAMPLE LEACHED WITH 3 ML 2-2-2 HCL-HNO3-H2O AT 95 DEG. C FOR ONE HOUR, DILUTED TO 10 ML, ANALYSED BY ICP-MS.
(>) CONCENTRATION EXCEEDS UPPER LIMITS. SOME MINERALS MAY BE PARTIALLY ATTACKED. REFRACTORY AND GRAPHITIC SAMPLES CAN LIMIT AU SOLUBILITY.
AG** & AU** BY FIRE ASSAY FROM 1 A.T. SAMPLE.
- SAMPLE TYPE: CORE R150 60C Samples beginning 'RE' are Reruns and 'RRE' are Reject Reruns.

Data We FA ____ DATE RECEIVED: JUN 22 2004 DATE REPORT MAILED: July 6/04

BRITISH COLUMBIA CERTIFIED ASSAYER
Clarence Leong

ACME ANALYTICAL LABORATORIES LTD. 852 E. HASTINGS ST. VANCOUVER BC V6A 1R6 PHONE(604)253-3158 FAX(604)253-1716
(ISO 9002 Accredited Co.)

ASSAY CERTIFICATE

Almaden Minerals Ltd. PROJECT ELK File # A402941R
1103 - 750 W. Pender St., Vancouver BC V6C 2T8

SAMPLE#	S.Wt gm	NAu mg	-Au gm/mt	TotAu gm/mt
SI	<1	<.01	.01	<.01
SND 368-9	471	.63	2.92	4.26

-AU : -150 AU BY FIRE ASSAY FROM 1 A.T. SAMPLE. DUPAU: AU DUPLICATED FROM -150 MESH. NAU - NATIVE GOLD, TOTAL SAMPLE FIRE ASSAY.
- SAMPLE TYPE: CORE REJ.

Data___ FA ___ DATE RECEIVED: AUG 23 2004 DATE REPORT MAILED: Sept. 1/04

BRITISH COLUMBIA CERTIFIED ASSAYER
C.L
Clarence Leong

ACME ANALYTICAL LABORATORIES LTD. 852 E. HASTINGS ST. VANCOUVER BC V6A 1R6 PHONE(604)253-3158 FAX(604)253-1716
(ISO 9002 Accredited Co.)

ASSAY CERTIFICATE

Almaden Minerals Ltd. PROJECT ELK File # A402941R
1103 - 750 W. Pender St., Vancouver BC V6C 2T8

SAMPLE#	S.Wt gm	NAg mg	-Ag gm/mt	TotAg gm/mt
SI	<1	<2	<2	<2
SND 368-9	471	<2	6	8

-AG : -150 AG BY FIRE ASSAY FROM 1 A.T. SAMPLE. DUPAG: AG DUPLICATED FROM -150 MESH. NAG - NATIVE SILVER, TOTAL SAMPLE FIRE ASSAY.
- SAMPLE TYPE: CORE REJ.

Data___ FA ___ DATE RECEIVED: AUG 23 2004 DATE REPORT MAILED: Sept. 1/04

BRITISH COLUMBIA CERTIFIED ASSAYER
Clarence Leong

ACME ANALYTICAL LABORATORIES LTD. 852 E. HASTINGS ST. VANCOUVER BC V6A 1R6 PHONE(604)253-3158 FAX(604)253-1716
(ISO 9002 Accredited Co.)

ASSAY CERTIFICATE

Almaden Minerals Ltd. PROJECT ELK File # A402941R2

1103 - 750 W. Pender St., Vancouver BC V6C 2T8

SAMPLE#	S.Wt gm	NAu mg	-Au gm/mt	TotAu gm/mt
SND 367-21	444	15.25	53.18	87.53
STANDARD AU-1	<1	<.01	3.35	3.35

-AU : -150 AU BY FIRE ASSAY FROM 1 A.T. SAMPLE. DUPAU: AU DUPLICATED FROM -150 MESH. NAU - NATIVE GOLD, TOTAL SAMPLE FIRE ASSAY.
- SAMPLE TYPE: CORE REJ.

Data___ FA Y DATE RECEIVED: DEC 17 2004 DATE REPORT MAILED: Jan 18/2005

BRITISH COLUMBIA CERTIFIED ASSAYER
Jacky Wang

ACME ANALYTICAL LABORATORIES LTD. 852 E. HASTINGS ST. VANCOUVER BC V6A 1R6 PHONE(604)253-3158 FAX(604)253-1716
(ISO 9002 Accredited Co.)

ASSAY CERTIFICATE

Almaden Minerals Ltd. PROJECT ELK File # A402941R2
1103 - 750 W. Pender St., Vancouver BC V6C 2T8

SAMPLE#	S.Wt gm	NAg mg	-Ag gm/mt	TotAg gm/mt
SND 367-21	444	7.59	59	76
STANDARD GC-2a	<1	<.06	1025	1025

-AG : -150 AG BY FIRE ASSAY FROM 1 A.T. SAMPLE. DUPAG: AG DUPLICATED FROM -150 MESH. NAG - NATIVE SILVER, TOTAL SAMPLE FIRE ASSAY.
- SAMPLE TYPE: CORE REJ.

Data___ FA YHNG DATE RECEIVED: DEC 17 2004 DATE REPORT MAILED: Jan. 18/2005

BRITISH COLUMBIA CERTIFIED ASSAYER
Jacky Wang

ACME ANALYTICAL LABORATORIES LTD. 852 E. HASTINGS ST. VANCOUVER BC V6A 1R6 PHONE(604)253-3158 FAX(604)253-1716
(ISO 9002 Accredited Co.)

GEOCHEMICAL ANALYSIS CERTIFICATE

Almaden Minerals Ltd. PROJECT ELK File # A402942

1103 - 750 W. Pender St., Vancouver BC V6C 2T8

SAMPLE#	Mo ppm	Cu ppm	Pb ppm	Zn ppm	Ag ppm	Ni ppm	Co ppm	Mn ppm	Fe %	As ppm	U ppm	Au ppb	Th ppm	Sr ppm	Cd ppm	Sb ppm	Bi ppm	V ppm	Ca %	P %	La ppm	Cr ppm	Mg %	Ba ppm	Ti %	B ppm	Al %	Na %	K %	W ppm	Hg ppm	Sc ppm	Tl ppm	S %	Ga ppm	Se ppm
SI	.1	3.8	.7	2	<.1	.7	.1	<1	.01	<.5	<.1	<.5	<.1	3	<.1	<.1	<.1	<1	.13	<.001	<1	8.1	<.01	3	<.001	2	.01	.683	<.01	<.1	<.01	.1	<.1	.11	<1	<.5
SND 366-8	2.9	1107.1	220.6	267	26.2	6.8	8.5	963	4.01	52.3	7.8	24079.2	5.4	3	1.7	.3	15.8	4	.11	.020	6	217.7	.10	40	.001	3	.38	.011	.29	.4	<.01	1.0	.1	3.17	1	<.5
SND 368-8	6.0	1449.1	383.9	31	44.5	7.3	22.3	85	20.37	373.5	5.3	12774.8	4.4	5	2.3	1.1	9.9	1	.07	.022	3	1.0	.04	2	.001	1	.24	.006	.17	.2	.05	.5	.1	>10	1	.6
SND 368-15	4.5	100.0	152.7	162	14.7	5.9	11.3	1005	5.28	62.7	11.7	14439.4	10.8	9	.8	.3	3.3	14	.22	.052	24	147.4	.17	36	.002	3	.48	.025	.26	.1	<.01	3.3	.2	4.31	1	<.5
STANDARD DS5	12.5	144.2	25.9	140	.3	24.7	11.8	783	3.04	18.5	6.2	44.1	2.8	45	5.6	3.6	6.4	58	.76	.093	11	191.2	.68	136	.102	18	2.06	.034	.13	4.7	.16	3.4	1.2	<.05	7	4.9

GROUP 1DX - 0.50 GM SAMPLE LEACHED WITH 3 ML 2-2-2 HCL-HNO3-H2O AT 95 DEG. C FOR ONE HOUR, DILUTED TO 10 ML, ANALYSED BY ICP-MS.
(>) CONCENTRATION EXCEEDS UPPER LIMITS. SOME MINERALS MAY BE PARTIALLY ATTACKED. REFRACTORY AND GRAPHITIC SAMPLES CAN LIMIT AU SOLUBILITY.
- SAMPLE TYPE: CORE R150 60C

Data We FA

DATE RECEIVED: JUN 22 2004 DATE REPORT MAILED: July 8/04

BRITISH COLUMBIA CERTIFIED ASSAYER
Clarence Leong

ACME ANALYTICAL LABORATORIES LTD. 852 E. HASTINGS ST. VANCOUVER BC V6A 1R6 PHONE(604)253-3158 FAX(604)253-1716
(ISO 9002 Accredited Co.)

ASSAY CERTIFICATE

Almaden Minerals Ltd. PROJECT ELK File # A402942
1103 - 750 W. Pender St., Vancouver BC V6C 2T8

SAMPLE#	S.Wt gm	NAu mg	-Au gm/mt	TotAu gm/mt
SI	<1	<.01	.01	.01
SND 366-8	1031	10.74	30.79	41.21
SND 368-8	992	.16	10.39	10.55
SND 368-15	730	.99	13.37	14.73

-AU : -150 AU BY FIRE ASSAY FROM 1 A.T. SAMPLE. DUPAU: AU DUPLICATED FROM -150 MESH. NAU - NATIVE GOLD, TOTAL SAMPLE FIRE ASSAY.
- SAMPLE TYPE: CORE R150 60C

Data We FA ____ DATE RECEIVED: JUN 22 2004 DATE REPORT MAILED: July 8/04

BRITISH COLUMBIA CERTIFIED ASSAYER
C.L
Clarence Leong

ACME ANALYTICAL LABORATORIES LTD. 852 E. HASTINGS ST. VANCOUVER BC V6A 1R6 PHONE(604)253-3158 FAX(604)253-1716
(ISO 9002 Accredited Co.)

ASSAY CERTIFICATE

Almaden Minerals Ltd. PROJECT ELK File # A402942

1103 - 750 W. Pender St., Vancouver BC V6C 2T8

SAMPLE#	S.Wt gm	NAg mg	-Ag gm/mt	TotAg gm/mt
SI	<1	<.06	<2	<2
SND 366-8	1031	3.15	30	33
SND 368-8	992	.71	46	47
SND 368-15	730	.35	16	16

-AG : -150 AG BY FIRE ASSAY FROM 1 A.T. SAMPLE. DUPAG: AG DUPLICATED FROM -150 MESH. NAG - NATIVE SILVER, TOTAL SAMPLE FIRE ASSAY.
- SAMPLE TYPE: CORE R150 60C

Data We FA ____ DATE RECEIVED: JUN 22 2004 DATE REPORT MAILED: July 8/04

BRITISH COLUMBIA CERTIFIED ASSAYER
C.L
Clarence Leong

ACME ANALYTICAL LABORATORIES LTD. 852 E. HASTINGS ST. VANCOUVER BC V6A 1R6 PHONE(604)253-3158 FAX(604)253-1716
(ISO 9002 Accredited Co.)

ASSAY CERTIFICATE

Almaden Minerals Ltd. PROJECT ELK File # A402942R
1103 - 750 W. Pender St., Vancouver BC V6C 2T8

SAMPLE#	S.Wt gm	NAu mg	-Au gm/mt	TotAu gm/mt
SI	<1	<.01	.01	<.01
SND 366-8	728	19.29	29.43	55.93

-AU : -150 AU BY FIRE ASSAY FROM 1 A.T. SAMPLE. DUPAU: AU DUPLICATED FROM -150 MESH. NAU - NATIVE GOLD, TOTAL SAMPLE FIRE ASSAY.
- SAMPLE TYPE: CORE REJ.

Data___ FA ____ DATE RECEIVED: OCT 6 2004 DATE REPORT MAILED: Oct 20/04

BRITISH COLUMBIA CERTIFIED ASSAYER
Clarence Leong

ACME ANALYTICAL LABORATORIES LTD. 852 E. HASTINGS ST. VANCOUVER BC V6A 1R6 PHONE(604)253-3158 FAX(604)253-1716
(ISO 9002 Accredited Co.)

GEOCHEMICAL ANALYSIS CERTIFICATE

Almaden Minerals Ltd. PROJECT ELK File # A402943 Page 1

1103 - 750 W. Pender St., Vancouver BC V6C 2T8

SAMPLE#	Au* ppb
SI	<.5
SND 366-1	1879.1
SND 366-2	141.8
SND 366-3	341.7
SND 366-5	68.9
SND 366-6	591.2
SND 366-7	6.9
SND 366-9	10.8
SND 366-11	101.8
SND 366-12	30802.3
SND 366-13	110.0
SND 366-14	2012.9
SND 366-16	376.4
SND 366-17	3717.7
SND 366-18	1763.2
SND 366-21	9.2
SND 366-22 PULP	9509.8
SND 366-23	379.5
SND 366-24	239.1
RE SND 366-24	467.6
RRE SND 366-24	232.1
SND 366-25	1016.0
SND 366-26	700.3
SND 366-28	1026.2
SND 367-1	717.5
SND 367-2	613.6
SND 367-3	2263.9
SND 367-5	12.8
SND 367-7	19.8
SND 367-9	1010.7
SND 367-10	1322.5
SND 367-11	596.4
SND 367-12	715.7
SND 367-13	4.0
SND 367-14 PULP	35661.0
STANDARD AU-R	468.0

BRITISH COLUMBIA CERTIFIED ASSAYER
C.L.
Clarence Leong

AU* IGNITED, ACID LEACHED, ANALYSED BY ICP-MS. (30 gm)
- SAMPLE TYPE: CORE R150 60C
Samples beginning 'RE' are Reruns and 'RRE' are Reject Reruns.

Assay recommend for Au > 1000 ppb

Data We FA ____ DATE RECEIVED: JUN 22 2004 DATE REPORT MAILED: July 5/04

SAMPLE#	Au* ppb
SND 367-15	1120.1
SND 367-17	63.0
SND 367-18	33464.0
SND 367-19	480.8
SND 367-20	3833.9
SND 367-22	131.5
SND 368-1	4.0
SND 368-2	11.3
SND 368-3	19.2
SND 368-4	57.1
SND 368-5	1060.6
RE SND 368-5	2074.7
RRE SND 368-5	783.3
SND 368-6	55.0
SND 368-7	102.1
SND 368-10	17.5
SND 368-11	111.1
SND 368-12	18.2
SND 368-14	<.5
SND 368-16	7.2
SND 368-17	42475.5
SND 368-18	363.5
SND 368-19	106.2
STANDARD AU-R	460.0

Sample type: CORE R150 60C. Samples beginning 'RE' are Reruns and 'RRE' are Reject Reruns.

Data We FA ___

ACME ANALYTICAL LABORATORIES LTD. 852 E. HASTINGS ST. VANCOUVER BC V6A 1R6 PHONE(604)253-3158 FAX(604)253-1716
(ISO 9002 Accredited Co.)

GEOCHEMICAL ANALYSIS CERTIFICATE

Almaden Minerals Ltd. PROJECT ELK File # A402943R

1103 - 750 W. Pender St., Vancouver BC V6C 2T8

SAMPLE#	Mo ppm	Cu ppm	Pb ppm	Zn ppm	Ag ppm	Ni ppm	Co ppm	Mn ppm	Fe %	As ppm	U ppm	Au ppb	Th ppm	Sr ppm	Cd ppm	Sb ppm	Bi ppm	V ppm	Ca %	P %	La ppm	Cr ppm	Mg %	Ba ppm	Ti %	B ppm	Al %	Na %	K %	W ppm	Hg ppm	Sc ppm	Tl ppm	S %	Ga ppm	Se ppm
SI	<.1	.8	.5	1	<.1	.2	<.1	<1	.04	<.5	<.1	3.5	<.1	4	<.1	<.1	<.1	<1	.17	<.001	<1	1.2	<.01	4	<.001	<1	.01	.690	.01	<.1	<.01	.2	<.1	<.05	<1	<.5
SND 366-12	2.9	616.1	101.0	72	32.4	3.0	5.6	1003	4.10	271.6	7.9	19701.3	10.4	7	.8	.5	13.7	10	.21	.041	11	1.5	.16	41	.005	<1	.40	.015	.28	.1	.01	2.3	.1	1.64	1	<.5
SND 367-18	1.7	817.3	15.2	73	7.3	2.7	4.4	536	4.65	55.5	5.1	16385.4	8.6	3	1.4	.2	17.7	3	.16	.048	6	1.3	.08	33	.001	<1	.30	.006	.28	.2	<.01	1.0	.1	3.49	1	<.5
SND 368-17	1.7	176.3	76.1	148	44.6	2.0	4.2	287	4.86	137.9	4.1	26622.2	5.1	2	2.7	.3	8.9	1	.06	.020	6	1.5	.03	22	<.001	<1	.21	.006	.18	.1	.02	.5	.1	3.42	1	.5
STANDARD DS5	12.1	146.4	25.5	140	.3	24.8	12.1	783	2.97	17.8	6.0	42.0	2.6	45	5.2	3.3	5.9	62	.73	.095	12	190.9	.67	133	.098	17	1.98	.032	.14	4.7	.17	3.3	1.0	<.05	6	4.9

GROUP 1DX - 0.50 GM SAMPLE LEACHED WITH 3 ML 2-2-2 HCL-HNO3-H2O AT 95 DEG. C FOR ONE HOUR, DILUTED TO 10 ML, ANALYSED BY ICP-MS.
(>) CONCENTRATION EXCEEDS UPPER LIMITS. SOME MINERALS MAY BE PARTIALLY ATTACKED. REFRACTORY AND GRAPHITIC SAMPLES CAN LIMIT AU SOLUBILITY.
- SAMPLE TYPE: CORE REJ.

Data___ FA ____ DATE RECEIVED: AUG 23 2004 DATE REPORT MAILED: Sept 1/04

BRITISH COLUMBIA CERTIFIED ASSAYER
Clarence Leong

ACME ANALYTICAL LABORATORIES LTD. 852 E. HASTINGS ST. VANCOUVER BC V6A 1R6 PHONE(604)253-3158 FAX(604)253-1716
(ISO 9002 Accredited Co.)

ASSAY CERTIFICATE

Almaden Minerals Ltd. PROJECT ELK File # A402943R
1103 - 750 W. Pender St., Vancouver BC V6C 2T8

SAMPLE#	S.Wt gm	NAu mg	-Au gm/mt	TotAu gm/mt
SI	<1	<.01	.01	<.01
SND 366-12	426	5.27	17.26	29.63
SND 367-18	448	2.49	27.20	32.76
SND 368-17	501	2.74	37.15	42.62
STANDARD AU-1	<1	.09	3.32	3.32

-AU : -150 AU BY FIRE ASSAY FROM 1 A.T. SAMPLE. DUPAU: AU DUPLICATED FROM -150 MESH. NAU - NATIVE GOLD, TOTAL SAMPLE FIRE ASSAY.
- SAMPLE TYPE: CORE REJ.

Data___ FA 4 DATE RECEIVED: AUG 23 2004 DATE REPORT MAILED: Sept. 1/04

BRITISH COLUMBIA CERTIFIED ASSAYER
C.L
Clarence Leong

ACME ANALYTICAL LABORATORIES LTD. 852 E. HASTINGS ST. VANCOUVER BC V6A 1R6 PHONE(604)253-3158 FAX(604)253-1716
(ISO 9002 Accredited Co.)

ASSAY CERTIFICATE

Almaden Minerals Ltd. PROJECT ELK File # A402943R

1103 - 750 W. Pender St., Vancouver BC V6C 2T8

SAMPLE#	S.Wt gm	NAg mg	-Ag gm/mt	TotAg gm/mt
SI	<1	<2	<2	<2
SND 366-12	426	3	25	32
SND 367-18	448	<2	10	11
SND 368-17	501	<2	43	45
STANDARD R-2a	<1	<2	157	157

-AG : -150 AG BY FIRE ASSAY FROM 1 A.T. SAMPLE. DUPAG: AG DUPLICATED FROM -150 MESH. NAG - NATIVE SILVER, TOTAL SAMPLE FIRE ASSAY.
- SAMPLE TYPE: CORE REJ.

Data___ FA ✓ DATE RECEIVED: AUG 23 2004 DATE REPORT MAILED: Sept. 1/04

BRITISH COLUMBIA CERTIFIED ASSAYER
C.L
Clarence Leong

ACME ANALYTICAL LABORATORIES LTD. 852 E. HASTINGS ST. VANCOUVER BC V6A 1R6 PHONE(604)253-3158 FAX(604)253-1716
(ISO 9002 Accredited Co.)

GEOCHEMICAL ANALYSIS CERTIFICATE

Almaden Minerals Ltd. PROJECT ELK File # A403223

1103 - 750 W. Pender St., Vancouver BC V6C 2T8

SAMPLE#	Mo ppm	Cu ppm	Pb ppm	Zn ppm	Ag ppm	Ni ppm	Co ppm	Mn ppm	Fe %	As ppm	U ppm	Au ppb	Th ppm	Sr ppm	Cd ppm	Sb ppm	Bi ppm	V ppm	Ca %	P %	La ppm	Cr ppm	Mg %	Ba ppm	Ti %	B ppm	Al %	Na %	K %	W ppm	Hg ppm	Sc ppm	Tl ppm	S %	Ga ppm	Se ppm	Ag** gm/mt	Au** gm/mt
SI	<.1	.4	.1	1	<.1	.2	<.1	1	.03	<.5	<.1	<.5	<.1	4	<.1	<.1	<.1	3	.17	<.001	<1	<1	<.01	4	<.001	2	.01	.665	<.01	<.1	<.01	.1	<.1	<.05	<1	<.5	<2	.01
SND369-14	2.9	1084.6	39.7	136	12.0	2.5	7.8	585	4.60	44.0	8.2	7073.2	7.6	8	2.7	.2	4.9	13	.23	.047	12	3.7	.15	20	.011	3	.34	.017	.26	.2	.01	1.9	.1	3.37	1	<.5	11	12.00
SND369-9	4.3	357.7	168.5	70	51.5	3.5	19.0	678	8.33	156.0	4.6	29595.0	6.9	12	1.3	.6	14.0	7	.16	.029	14	2.8	.18	17	<.001	1	.31	.011	.19	.1	.04	1.3	.1	7.04	1	<.5	52	33.63
SND370-7	10.5	89.6	507.6	1294	2.7	1.8	4.4	140	2.20	164.6	5.8	361.6	2.0	5	23.2	.7	1.0	3	.05	.020	3	7.9	.02	28	<.001	1	.14	.003	.12	.1	.04	.6	.1	1.64	<1	.5	4	.44
SND371-10 N.S.	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
SND371-2	8.1	85.6	271.7	217	2.9	2.7	10.2	1253	6.72	442.2	3.6	523.3	6.9	7	1.4	.7	.1	3	.16	.049	12	3.0	.09	22	<.001	1	.24	.005	.20	.1	.01	.8	.1	4.85	1	<.5	3	.61
SND371-24	60.8	232.3	97.5	88	14.6	1.9	3.3	849	4.33	119.1	6.1	1820.7	5.7	3	1.2	.2	1.9	1	.14	.030	5	3.2	.09	24	<.001	<1	.25	.004	.23	.2	<.01	.9	.1	2.54	1	<.5	5	1.45
SND371-6	3.9	294.7	419.5	459	6.7	2.4	10.7	1051	4.83	102.5	19.1	2834.5	7.7	25	1.7	.3	2.2	7	.24	.063	17	1.6	.19	43	.001	<1	.37	.009	.24	.1	.01	1.5	.1	2.84	1	<.5	6	2.86
STANDARD DS5/R-2a/AU-1	11.8	145.4	24.0	136	.3	23.1	11.8	743	2.99	18.8	5.7	41.8	2.5	50	5.6	3.5	6.3	60	.74	.086	13	176.9	.68	135	.096	16	2.00	.033	.15	4.4	.18	3.6	.9	<.05	7	4.9	157	3.42

GROUP 1DX - 0.50 GM SAMPLE LEACHED WITH 3 ML 2-2-2 HCL-HNO3-H2O AT 95 DEG. C FOR ONE HOUR, DILUTED TO 10 ML, ANALYSED BY ICP-MS.
(>) CONCENTRATION EXCEEDS UPPER LIMITS. SOME MINERALS MAY BE PARTIALLY ATTACKED. REFRACTORY AND GRAPHITIC SAMPLES CAN LIMIT AU SOLUBILITY.
AG** & AU** BY FIRE ASSAY FROM 1 A.T. SAMPLE.
- SAMPLE TYPE: CORE R150 60C

Data d FA ____ DATE RECEIVED: JUL 2 2004 DATE REPORT MAILED: July 22/04

BRITISH COLUMBIA CERTIFIED ASSAYER
Clarence Leong

ACME ANALYTICAL LABORATORIES LTD. 852 E. HASTINGS ST. VANCOUVER BC V6A 1R6 PHONE(604)253-3158 FAX(604)253-1716
(ISO 9002 Accredited Co.)

ASSAY CERTIFICATE

Almaden Minerals Ltd. PROJECT ELK File # A403223R
1103 - 750 W. Pender St., Vancouver BC V6C 2T8

SAMPLE#	S.Wt gm	NAg mg	-Ag gm/mt	TotAg gm/mt
SI	<1	<2	<2	<2
SND369-9	488	<2	48	48

-AG : -150 AG BY FIRE ASSAY FROM 1 A.T. SAMPLE. DUPAG: AG DUPLICATED FROM -150 MESH. NAG - NATIVE SILVER, TOTAL SAMPLE FIRE ASSAY.
- SAMPLE TYPE: CORE REJ.

Data___ FA YIN DATE RECEIVED: AUG 23 2004 DATE REPORT MAILED: Sept. 1/04

BRITISH COLUMBIA CERTIFIED ASSAYER
C.L
Clarence Leong

ACME ANALYTICAL LABORATORIES LTD. 852 E. HASTINGS ST. VANCOUVER BC V6A 1R6 PHONE(604)253-3158 FAX(604)253-1716
(ISO 9002 Accredited Co.)

ASSAY CERTIFICATE

Almaden Minerals Ltd. PROJECT ELK File # A403223R

1103 - 750 W. Pender St., Vancouver BC V6C 2T8

SAMPLE#	S.Wt gm	NAu mg	-Au gm/mt	TotAu gm/mt
SI	<1	<.01	.01	<.01
SND369-9	488	<.01	26.69	26.69

-AU : -150 AU BY FIRE ASSAY FROM 1 A.T. SAMPLE. DUPAU: AU DUPLICATED FROM -150 MESH. NAU - NATIVE GOLD, TOTAL SAMPLE FIRE ASSAY.
- SAMPLE TYPE: CORE REJ.

Data___ FA ___ DATE RECEIVED: AUG 23 2004 DATE REPORT MAILED: Sept 1/04

BRITISH COLUMBIA CERTIFIED ASSAYER
Clarence Leong

ACME ANALYTICAL LABORATORIES LTD. 852 E. HASTINGS ST. VANCOUVER BC V6A 1R6 PHONE(604)253-3158 FAX(604)253-1716
(ISO 9002 Accredited Co.)

GEOCHEMICAL ANALYSIS CERTIFICATE

Almaden Minerals Ltd. PROJECT ELK File # A403224 Page 1

1103 - 750 W. Pender St., Vancouver BC V6C 2T8

SAMPLE#	Au* ppb
SI	<.5
SND369-1	17.4
SND369-10	21.6
SND369-11	4.2
SND369-12	.5
SND369-13(PULP)	9588.2
SND369-2	865.6
SND369-3	15.7
SND369-4	44.8
SND369-5	18.9
SND369-6	10.2
SND369-7	981.4
SND369-8	2192.9
SND370-1	1315.4
SND370-10	6.0
SND370-2	17.8
SND370-3	185.9
RE SND370-3	255.7
RRE SND370-3	129.5
SND370-4	1.8
SND370-5	2.4
SND370-6	4140.6
SND370-8	108.2
SND370-9	14.7
SND371-1	42.5
SND371-11	47.3
SND371-12	48.8
SND371-13	138.8
SND371-14	17.6
SND371-15	2019.4
SND371-16	188.8
SND371-17	12.0
SND371-18	24.3
SND371-19	56.8
SND371-20	68.6
STANDARD AU-R	480.1

AU* IGNITED, ACID LEACHED, ANALYZED BY ICP-MS. (30 gm)
- SAMPLE TYPE: CORE R150 60C
Samples beginning 'RE' are Reruns and 'RRE' are Reject Reruns.

Data L FA ____ DATE RECEIVED: JUL 2 2004 DATE REPORT MAILED: July 20/04

BRITISH COLUMBIA CERTIFIED ASSAYER
Clarence Leong

SAMPLE#	Au* ppb
SND371-21	2695.9
SND371-22	384.3
SND371-23	500.2
SND371-25	345.4
SND371-26	193.5
SND371-27	168.6
SND371-28	4.5
SND371-29(PULP)	10345.4
SND371-3	3.0
SND371-30	430.8
SND371-4	565.1
RE SND371-4	605.6
RRE SND371-4	565.4
SND371-5	3.3
SND371-7	.9
SND371-8	9.8
SND371-9	<.5
STANDARD AU-R	460.0

Sample type: CORE R150 60C. Samples beginning 'RE' are Reruns and 'RRE' are Reject Reruns.

Data ✓ FA ___

ACME ANALYTICAL LABORATORIES LTD. 852 E. HASTINGS ST. VANCOUVER BC V6A 1R6 PHONE(604)253-3158 FAX(604)253-1716
(ISO 9002 Accredited Co.)

ASSAY CERTIFICATE

Almaden Minerals Ltd. PROJECT ELK File # A403224R
1103 - 750 W. Pender St., Vancouver BC V6C 2T8

SAMPLE#	Au** gm/mt
SND369-13 PULP	9.72
SND371-29 PULP N.S.	-
STANDARD AU-1	3.40

GROUP 6 - PRECIOUS METALS BY FIRE ASSAY FROM 1/4 A.T. SAMPLE, ANALYSIS BY ICP-ES.
- SAMPLE TYPE: CORE PULP

Data 1 FA ____ **DATE RECEIVED:** JUL 21 2004 **DATE REPORT MAILED:** July 28/04

BRITISH COLUMBIA CERTIFIED ASSAYER
C.L
Clarence Leong

ACME ANALYTICAL LABORATORIES LTD. 852 E. HASTINGS ST. VANCOUVER BC V6A 1R6 PHONE(604)253-3158 FAX(604)253-1716
(ISO 9002 Accredited Co.)

GEOCHEMICAL ANALYSIS CERTIFICATE

Almaden Minerals Ltd. PROJECT ELK04-3 File # A403633

1103 - 750 W. Pender St., Vancouver BC V6C 2T8 Submitted by: W. Jakubowski

SAMPLE#	Mo ppm	Cu ppm	Pb ppm	Zn ppm	Ag ppm	Ni ppm	Co ppm	Mn ppm	Fe %	As ppm	U ppm	Au ppb	Th ppm	Sr ppm	Cd ppm	Sb ppm	Bi ppm	V ppm	Ca %	P %	La ppm	Cr ppm	Mg %	Ba ppm	Ti %	B ppm	Al %	Na %	K %	W ppm	Hg ppm	Sc ppm	Tl ppm	S %	Ga ppm	Se ppm	Ag** gm/mt	Au** gm/mt
SI	.1	1.2	.8	2	<.1	.2	.1	13	.07	<.5	<.1	<.5	<.1	12	<.1	<.1	<.1	2	.30	.001	<1	<1	.01	8	.001	6	.03	.963	.02	.2	<.01	.2	<.1	.09	<1	<.5	<2	<.01
SND373-1	18.6	133.1	237.6	30	1.0	1.5	3.3	65	1.16	37.9	40.5	49.5	10.9	12	.9	1.0	.3	1	.06	.009	19	6.1	.03	39	<.001	8	.25	.011	.20	1.0	.01	.6	.1	.90	1	<.5	2	.10
SND373-18 PULP	13.6	282.5	329.3	341	4.9	149.8	20.2	497	3.42	207.9	3.1	9746.1	2.4	50	2.8	16.0	4.6	43	1.19	.044	6	264.6	.48	50	.034	10	.99	.032	.33	5.5	.39	4.5	.6	1.19	4	1.4	6	9.37
SND373-45	1.7	358.5	83.3	70	4.1	1.5	12.3	470	5.91	98.9	8.5	768.6	28.2	3	10.7	.5	1.0	1	.06	.008	33	6.0	.06	10	<.001	5	.23	.013	.23	.2	<.01	.8	.1	4.53	1	<.5	5	1.12
SND373-50	2.1	727.5	149.9	104	22.7	1.2	1.9	290	3.80	77.4	4.7	10243.8	9.0	6	1.4	.2	13.2	1	.05	.009	11	7.4	.08	18	<.001	6	.32	.006	.30	1.5	.01	.5	.1	2.76	1	<.5	38	12.72
SND373-55	1.3	1611.7	305.1	331	14.2	1.0	1.7	322	3.32	122.1	6.0	3558.2	9.1	2	7.6	.2	3.7	<1	.07	.023	11	5.5	.06	26	.001	6	.35	.006	.34	.2	.02	.6	.1	2.53	1	<.5	12	2.17
STANDARD DS5/R-2a/AU-1	12.3	138.5	25.6	141	.3	24.8	11.7	756	2.99	17.9	6.4	41.2	2.6	52	5.6	3.5	6.2	62	.74	.097	13	184.0	.67	136	.105	17	1.98	.034	.14	4.6	.17	3.4	1.0	<.05	6	4.6	154	3.41

GROUP 1DX - 0.50 GM SAMPLE LEACHED WITH 3 ML 2-2-2 HCL-HNO3-H2O AT 95 DEG. C FOR ONE HOUR, DILUTED TO 10 ML, ANALYSED BY ICP-MS.
(>) CONCENTRATION EXCEEDS UPPER LIMITS. SOME MINERALS MAY BE PARTIALLY ATTACKED. REFRACTORY AND GRAPHITIC SAMPLES CAN LIMIT AU SOLUBILITY.
AG** & AU** BY FIRE ASSAY FROM 1 A.T. SAMPLE.
- SAMPLE TYPE: CORE R150 60C

Data h FA _____ DATE RECEIVED: JUL 15 2004 DATE REPORT MAILED: Aug. 6/04

BRITISH COLUMBIA CERTIFIED ASSAYER
Clarence Leong

ACME ANALYTICAL LABORATORIES LTD. 852 E. HASTINGS ST. VANCOUVER BC V6A 1R6 PHONE(604)253-3158 FAX(604)253-1716
(ISO 9002 Accredited Co.)

GEOCHEMICAL ANALYSIS CERTIFICATE

Almaden Minerals Ltd. PROJECT ELK04-3 File # A403634 Page 1

1103 - 750 W. Pender St., Vancouver BC V6C 2T8 Submitted by: W. Jakubowski

SAMPLE#	Au* ppb	Sample kg
SI	<.5	-
SND372-1	4.2	.66
SND372-2	301.5	.77
SND372-3	129.3	.81
SND372-4	45.7	.73
SND372-5	193.2	.69
SND372-6	109.4	1.10
SND372-7	4391.3	1.16
SND372-8	2126.2	.83
SND372-9	97.5	.89
SND372-10	47.8	.74
SND372-11	1173.8	.71
SND372-12	125.3	.58
RE SND372-12	108.2	-
RRE1SND372-12	96.1	-
SND372-13	193.4	.54
SND372-14	38.8	.49
SND372-15	8.9	.68
SND372-16	4.1	2.33
SND372-17	5.2	1.71
SND372-18	2.7	.74
SND372-19 PULP	9935.3	-
SND372-20	1847.6	1.13
SND372-21	3.6	2.20
SND372-22	546.7	.75
SND372-23	141.6	.64
SND372-24	1380.8	.91
SND372-25	74.3	.83
SND372-26	37.9	2.32
SND372-27	365.4	1.11
SND372-28	13539.7	1.06
SND372-29	8726.6	1.04
SND372-30	2365.0	.72
SND372-31	1188.2	.78
SND372-32	252.9	.89
STANDARD AU-R	475.5	-

AU* IGNITED, ACID LEACHED, ANALYSED BY ICP-MS. (15 gm)
- SAMPLE TYPE: CORE R150 60C
Samples beginning 'RE' are Reruns and 'RRE' are Reject Reruns.

Data C FA

DATE RECEIVED: JUL 15 2004 DATE REPORT MAILED: Aug 5/04

BRITISH COLUMBIA CERTIFIED ASSAYER
Clarence Leong

SAMPLE#	Au* ppb	Sample kg
SND372-33	31.7	.61
SND372-34	4801.0	.76
SND372-35	1584.0	1.34
SND372-36	30.3	1.94
SND372-37	11.8	1.01
SND372-38	2.1	.87
SND372-39 PULP	34572.0	-
SND372-40	1368.0	.99
SND373-2	14.4	.73
SND373-3	199.5	.68
SND373-4	65.8	.74
SND373-5	62.1	.92
SND373-6	89.6	.55
SND373-7	389.5	1.13
SND373-8	131.8	2.90
SND373-9	6.6	1.89
SND373-10	5.3	1.56
RE SND373-10	3.8	-
RRE SND373-10	5.6	-
SND373-11	1960.0	1.10
SND373-12	25.0	1.27
SND373-13	29.5	1.53
SND373-14	301.7	1.33
SND373-15	267.6	1.47
SND373-16	207.4	.93
SND373-17	.7	1.20
SND373-19	35.0	.75
SND373-20	39.8	.68
SND373-21	339.8	.78
SND373-22	6.3	1.18
SND373-23	47.8	.56
SND373-24	85.8	1.86
SND373-25	1501.0	.81
SND373-26	117.2	.73
STANDARD AU-R	480.9	-

Sample type: CORE R150 60C. Samples beginning 'RE' are Reruns and 'RRE' are Reject Reruns.

Data A FA ___

SAMPLE#	Au* ppb	Sample kg
SND373-27	13.0	.68
SND373-28	7.3	.77
SND373-29	10.3	2.14
SND373-30	880.1	.58
SND373-31	145.5	.72
SND373-32	99.8	2.40
SND373-33	56.6	1.08
SND373-34	8.0	.69
SND373-35	77.6	.58
SND373-36	76.9	.70
SND373-37	42.1	.44
SND373-38	8.1	.68
SND373-39 PULP	34041.0	-
SND373-40	88.7	.88
RE SND373-40	116.0	-
RRE SND373-40	90.5	-
SND373-41	143.6	.95
SND373-42	16.8	2.07
SND373-43	98.4	1.00
SND373-44	127.5	1.52
SND373-46	1424.0	.70
SND373-47	127.0	1.85
SND373-48	16.8	2.16
SND373-49	419.0	1.96
SND373-51	1056.0	1.23
SND373-52	1235.0	1.07
SND373-53	1299.0	.96
SND373-54	21777.0	1.48
SND373-56	1189.0	1.18
SND373-57	843.6	.66
SND373-58	5.0	.68
SND373-59 PULP	9578.0	-
SND373-60	101.6	1.15
SND373-61	814.0	1.24
STANDARD AU-R	475.2	-

Sample type: CORE R150 60C. Samples beginning 'RE' are Reruns and 'RRE' are Reject Reruns.

Data___ FA ___

SAMPLE#	Au* ppb	Sample kg
SND373-62	561.5	1.33
SND373-63	14.7	1.19
SND373-64	1045.8	1.22
SND373-65	6512.2	1.17
SND373-66	16.8	1.99
STANDARD AU-R	488.4	-

Sample type: CORE R150 60C.

Data ✓ FA ___

ACME ANALYTICAL LABORATORIES LTD. 852 E. HASTINGS ST. VANCOUVER BC V6A 1R6 PHONE(604)253-3158 FAX(604)253-1716
(ISO 9002 Accredited Co.)

ASSAY CERTIFICATE

Almaden Minerals Ltd. PROJECT ELK04-3 File # A403634R

1103 - 750 W. Pender St., Vancouver BC V6C 2T8 Submitted by: W. Jakubowski

SAMPLE#	Au** gm/mt
SND372-28	16.16
SND372-29	10.02
SND373-54	21.21
STANDARD AU-1	3.38

GROUP 6 - PRECIOUS METALS BY FIRE ASSAY FROM 1 A.T. SAMPLE, ANALYSIS BY ICP-ES.
- SAMPLE TYPE: CORE PULP

Data We FA ____ DATE RECEIVED: AUG 9 2004 DATE REPORT MAILED: Aug. 13/04

BRITISH COLUMBIA CERTIFIED ASSAYER
C.L
Clarence Leong

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(ISO 9002 Accredited Co.)

GEOCHEMICAL ANALYSIS CERTIFICATE

Almaden Minerals Ltd. PROJECT ELK04-3 File # A403634R2

1103 - 750 W. Pender St., Vancouver BC V6C 2T8 Submitted by: W. Jakubowski

SAMPLE#	Mo ppm	Cu ppm	Pb ppm	Zn ppm	Ag ppm	Ni ppm	Co ppm	Mn ppm	Fe %	As ppm	U ppm	Au ppb	Th ppm	Sr ppm	Cd ppm	Sb ppm	Bi ppm	V ppm	Ca %	P %	La ppm	Cr ppm	Mg %	Ba ppm	Ti %	B ppm	Al %	Na %	K %	W ppm	Hg ppm	Sc ppm	Tl ppm	S %	Ga ppm	Se ppm
SI	.1	.6	.2	1	<.1	.1	.1	<1	.11	<.5	<.1	<.5	<.1	2	<.1	<.1	<.1	1	.10	<.001	<1	1.5	<.01	3	<.001	<1	.01	.445	.01	.1	<.01	<.1	<.1	.14	<1	<.5
SND372-28	10.0	280.8	343.4	84	27.5	2.0	18.6	250	10.90	131.1	4.9	16979.6	5.2	2	.4	.3	13.5	<1	.10	.033	7	2.6	.04	19	.001	1	.28	.008	.25	.9	<.01	.5	.1	>10	1	.9
SND372-29	3.8	691.2	428.5	256	24.5	2.0	14.8	231	8.77	237.1	2.4	6978.5	5.6	2	7.4	.2	10.1	<1	.09	.031	4	3.9	.05	19	.001	1	.28	.005	.23	1.2	.01	.4	.1	8.09	1	.6
SND373-54	2.4	678.0	366.9	208	25.6	1.8	2.2	601	3.34	651.0	6.8	7243.8	9.3	2	2.5	.6	9.4	<1	.06	.014	13	3.9	.05	38	<.001	1	.34	.007	.33	1.2	.01	.4	.1	2.60	1	<.5
STANDARD DS5	12.1	146.4	25.5	140	.3	24.8	12.1	783	2.97	17.8	6.0	42.0	2.6	45	5.2	3.3	5.9	62	.73	.095	12	190.9	.67	133	.098	17	1.98	.032	.14	4.7	.17	3.3	1.0	<.05	6	4.9

GROUP 1DX - 0.50 GM SAMPLE LEACHED WITH 3 ML 2-2-2 HCL-HNO3-H2O AT 95 DEG. C FOR ONE HOUR, DILUTED TO 10 ML, ANALYSED BY ICP-MS.
(>) CONCENTRATION EXCEEDS UPPER LIMITS. SOME MINERALS MAY BE PARTIALLY ATTACKED. REFRACTORY AND GRAPHITIC SAMPLES CAN LIMIT AU SOLUBILITY.
- SAMPLE TYPE: CORE REJ.

Data 4 FA ____ DATE RECEIVED: AUG 23 2004 DATE REPORT MAILED: Aug.31/04

BRITISH COLUMBIA CERTIFIED ASSAYER
Clarence Leong

ACME ANALYTICAL LABORATORIES LTD. 852 E. HASTINGS ST. VANCOUVER BC V6A 1R6 PHONE(604)253-3158 FAX(604)253-1716
(ISO 9002 Accredited Co.)

ASSAY CERTIFICATE

Almaden Minerals Ltd. PROJECT ELK04-3 File # A403634R2

1103 - 750 W. Pender St., Vancouver BC V6C 2T8 Submitted by: W. Jakubowski

SAMPLE#	S.Wt gm	NAg mg	-Ag gm/mt	TotAg gm/mt
SI	<1	<2	<2	<2
SND372-28	737	<2	26	28
SND372-29	745	<2	22	25
SND373-54	1153	6	27	32

-AG : -150 AG BY FIRE ASSAY FROM 1 A.T. SAMPLE. DUPAG: AG DUPLICATED FROM -150 MESH. NAG - NATIVE SILVER, TOTAL SAMPLE FIRE ASSAY.
- SAMPLE TYPE: CORE REJ.

Data___ FA ___ DATE RECEIVED: AUG 23 2004 DATE REPORT MAILED: Aug. 31/04

BRITISH COLUMBIA CERTIFIED ASSAYER
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(ISO 9002 Accredited Co.)

ASSAY CERTIFICATE

Almaden Minerals Ltd. PROJECT ELK04-3 File # A403634R2

1103 - 750 W. Pender St., Vancouver BC V6C 2T8 Submitted by: W. Jakubowski

SAMPLE#	S.Wt gm	NAu mg	-Au gm/mt	TotAu gm/mt
SI	<1	<.01	<.01	<.01
SND372-28	737	.48	14.52	15.17
SND372-29	745	.39	8.97	9.49
SND373-54	1153	7.21	10.45	16.70

-AU : -150 AU BY FIRE ASSAY FROM 1 A.T. SAMPLE. DUPAU: AU DUPLICATED FROM -150 MESH. NAU - NATIVE GOLD, TOTAL SAMPLE FIRE ASSAY.
- SAMPLE TYPE: CORE REJ.

Data___ FA DATE RECEIVED: AUG 23 2004 DATE REPORT MAILED: Aug 31/04

BRITISH COLUMBIA CERTIFIED ASSAYER
C.T.
Clarence Leong

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(ISO 9002 Accredited Co.)

GEOCHEMICAL ANALYSIS CERTIFICATE

Almaden Minerals Ltd. PROJECT ELK04-4 File # A403883

1103 - 750 W. Pender St., Vancouver BC V6C 2T8

SAMPLE#	Mo ppm	Cu ppm	Pb ppm	Zn ppm	Ag ppm	Ni ppm	Co ppm	Mn ppm	Fe %	As ppm	U ppm	Au ppb	Th ppm	Sr ppm	Cd ppm	Sb ppm	Bi ppm	V ppm	Ca %	P %	La ppm	Cr ppm	Mg %	Ba ppm	Ti %	B ppm	Al %	Na %	K %	W ppm	Hg ppm	Sc ppm	Tl ppm	S %	Ga ppm	Se ppm	Ag** gm/mt	Au** gm/mt	Sample kg
SI	<.1	.7	.8	2	<.1	<.1	<.1	2	.06	<.5	<.1	2.1	<.1	5	<.1	<.1	<.1	4	.28	<.001	<1	<1	<.01	7	<.001	<1	.01	1.001	.01	<.1	<.01	.1	<.1	<.05	<1	<.5	<2	<.01	-
SND374-13(PULP)	23.5	57.7	396.4	34	4.5	1106.6	29.7	408	2.31	57.3	.5	31373.7	3.6	19	.1	.5	4.9	37	.51	.033	13	1359.3	.62	148	.046	5	1.04	.047	.27	13.5	.01	2.5	.1	<.05	3	<.5	6	32.78	-
SND374-19	1.6	479.7	116.3	99	3.8	.4	2.0	388	3.03	187.9	4.6	1624.7	10.0	2	1.4	.4	5.0	7	.06	.018	7	7.9	.02	23	.001	1	.26	.005	.25	.2	.01	.3	.1	2.27	1	<.5	5	4.16	1.36
SND374-21	1.3	1154.7	141.3	104	14.0	.2	6.3	520	5.50	1901.6	4.7	12184.7	7.7	4	2.0	3.2	36.1	7	.05	.016	5	3.6	.03	19	<.001	2	.17	.009	.14	.1	.02	.4	.1	4.81	1	<.5	17	20.58	.89
STANDARD DS5/R-2a/AU-1	12.7	136.3	24.9	132	.3	24.0	11.5	740	2.84	18.0	6.2	40.9	2.7	45	5.3	3.6	5.7	59	.72	.089	11	176.7	.64	129	.098	15	1.98	.034	.13	5.0	.18	3.3	.9	<.05	6	4.5	157	3.41	-

GROUP 1DX - 0.50 GM SAMPLE LEACHED WITH 3 ML 2-2-2 HCL-HNO3-H2O AT 95 DEG. C FOR ONE HOUR, DILUTED TO 10 ML, ANALYSED BY ICP-MS.
(>) CONCENTRATION EXCEEDS UPPER LIMITS. SOME MINERALS MAY BE PARTIALLY ATTACKED. REFRACTORY AND GRAPHITIC SAMPLES CAN LIMIT AU SOLUBILITY.
AG** & AU** BY FIRE ASSAY FROM 1 A.T. SAMPLE.
- SAMPLE TYPE: CORE R150 60C

Data k FA ____ DATE RECEIVED: JUL 23 2004 DATE REPORT MAILED: Aug 10/04

BRITISH COLUMBIA CERTIFIED ASSAYER
C.L
Clarence Leong

ACME ANALYTICAL LABORATORIES LTD. 852 E. HASTINGS ST. VANCOUVER BC V6A 1R6 PHONE(604)253-3158 FAX(604)253-1716
(ISO 9002 Accredited Co.)

GEOCHEMICAL ANALYSIS CERTIFICATE

Almaden Minerals Ltd. PROJECT ELK04-4 File # A403884

1103 - 750 W. Pender St., Vancouver BC V6C 2T8

SAMPLE#	Mo ppm	Cu ppm	Pb ppm	Zn ppm	Ag ppm	Ni ppm	Co ppm	Mn ppm	Fe %	As ppm	U ppm	Au ppb	Th ppm	Sr ppm	Cd ppm	Sb ppm	Bi ppm	V ppm	Ca %	P %	La ppm	Cr ppm	Mg %	Ba ppm	Ti %	B ppm	Al %	Na %	K %	W ppm	Hg ppm	Sc ppm	Tl ppm	S %	Ga ppm	Se ppm
SI	.1	.4	.5	1	<.1	.3	<.1	4	.03	<.5	<.1	<.5	<.1	3	<.1	<.1	<.1	<1	.15	<.001	<1	1.0	<.01	4	<.001	<1	.01	.614	.01	<.1	<.01	.1	<.1	<.05	<1	<.5
SND374-22	2.1	1417.5	761.8	173	18.5	1.5	3.8	80	3.39	614.3	12.0	18217.8	7.0	2	5.1	3.7	19.6	1	.04	.014	3	3.5	.01	18	<.001	1	.17	.008	.17	.2	.05	.2	.1	3.14	1	<.5
SND374-49	2.2	85.9	194.2	1439	2.0	3.0	8.4	2039	4.01	17.3	2.1	762.3	8.5	20	3.4	.1	1.1	16	.45	.092	21	3.3	.45	247	.001	3	.38	.028	.23	.1	<.01	4.2	.1	.39	1	<.5
SND374-67	2.1	185.8	418.1	149	14.9	7.4	6.6	274	4.60	156.9	11.1	8345.7	1.6	4	2.5	.6	8.6	6	.09	.031	3	7.0	.08	16	.001	2	.18	.005	.16	.8	.03	1.0	.1	4.09	<1	<.5
STANDARD DS5	12.7	136.3	24.9	132	.3	24.0	11.5	740	2.84	18.0	6.2	42.9	2.7	45	5.3	3.6	5.7	59	.72	.089	11	176.7	.64	129	.098	15	1.98	.034	.13	5.0	.18	3.3	.9	<.05	6	4.5

GROUP 1DX - 0.50 GM SAMPLE LEACHED WITH 3 ML 2-2-2 HCL-HNO3-H2O AT 95 DEG. C FOR ONE HOUR, DILUTED TO 10 ML, ANALYSED BY ICP-MS.
(>) CONCENTRATION EXCEEDS UPPER LIMITS. SOME MINERALS MAY BE PARTIALLY ATTACKED. REFRACTORY AND GRAPHITIC SAMPLES CAN LIMIT AU SOLUBILITY.
- SAMPLE TYPE: CORE R150 60C

Data f FA ____ DATE RECEIVED: JUL 23 2004 DATE REPORT MAILED: Aug.11/04

BRITISH COLUMBIA CERTIFIED ASSAYER
Clarence Leong

ACME ANALYTICAL LABORATORIES LTD. 852 E. HASTINGS ST. VANCOUVER BC V6A 1R6 PHONE(604)253-3158 FAX(604)253-1716
(ISO 9002 Accredited Co.)

ASSAY CERTIFICATE

Almaden Minerals Ltd. PROJECT ELK04-4 File # A403884
1103 - 750 W. Pender St., Vancouver BC V6C 2T8

SAMPLE#	S.Wt gm	NAg mg	-Ag gm/mt	TotAg gm/mt
SI	<1	<.06	<2	<2
SND374-22	1140	<.06	23	23
SND374-49	1130	2.04	2	4
SND374-67	720	1.59	18	18
STANDARD R-2a	<1	<.06	161	161

-AG : -150 AG BY FIRE ASSAY FROM 1 A.T. SAMPLE. DUPAG: AG DUPLICATED FROM -150 MESH. NAG - NATIVE SILVER, TOTAL SAMPLE FIRE ASSAY.
- SAMPLE TYPE: CORE R150 60C

Data___ FA ✓ DATE RECEIVED: JUL 23 2004 DATE REPORT MAILED: Aug 11/04

BRITISH COLUMBIA CERTIFIED ASSAYER
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ASSAY CERTIFICATE

Almaden Minerals Ltd. PROJECT ELK04-4 File # A403883R

1103 - 750 W. Pender St., Vancouver BC V6C 2T8

SAMPLE#	S.Wt gm	NAg mg	-Ag gm/mt	TotAg gm/mt
SI	<1	<2	<2	<2
SND374-21	619	4	20	26

-AG : -150 AG BY FIRE ASSAY FROM 1 A.T. SAMPLE. DUPAG: AG DUPLICATED FROM -150 MESH. NAG - NATIVE SILVER, TOTAL SAMPLE FIRE ASSAY.
- SAMPLE TYPE: CORE REJ.

Data___ FA VN DATE RECEIVED: AUG 23 2004 DATE REPORT MAILED: Sept 1/04

BRITISH COLUMBIA CERTIFIED ASSAYER
C.L
Clarence Leong

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ASSAY CERTIFICATE

Almaden Minerals Ltd. PROJECT ELK04-4 File # A403883R

1103 - 750 W. Pender St., Vancouver BC V6C 2T8

SAMPLE#	S.Wt gm	NAu mg	-Au gm/mt	TotAu gm/mt
SI	<1	<.01	.02	<.01
SND374-21	619	12.67	12.44	32.91

-AU : -150 AU BY FIRE ASSAY FROM 1 A.T. SAMPLE. DUPAU: AU DUPLICATED FROM -150 MESH. NAU - NATIVE GOLD, TOTAL SAMPLE FIRE ASSAY.
- SAMPLE TYPE: CORE REJ.

Data___ FA DATE RECEIVED: AUG 23 2004 DATE REPORT MAILED: Sept. 1/04

BRITISH COLUMBIA CERTIFIED ASSAYER
Clarence Leong

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ASSAY CERTIFICATE

Almaden Minerals Ltd. PROJECT ELK04-4 File # A403884
1103 - 750 W. Pender St., Vancouver BC V6C 2T8

SAMPLE#	S.Wt gm	NAu mg	-Au gm/mt	TotAu gm/mt
SI	<1	<.01	<.01	<.01
SND374-22	1140	<.01	19.03	19.03
SND374-49	1130	2.73	1.88	4.30
SND374-67	720	1.19	6.99	8.64
STANDARD AU-1	<1	<.01	3.41	3.41

-AU : -150 AU BY FIRE ASSAY FROM 1 A.T. SAMPLE. DUPAU: AU DUPLICATED FROM -150 MESH. NAU - NATIVE GOLD, TOTAL SAMPLE FIRE ASSAY.
- SAMPLE TYPE: CORE R150 60C

Data___ FA ✓ DATE RECEIVED: JUL 23 2004 DATE REPORT MAILED: Aug 11/04

BRITISH COLUMBIA CERTIFIED ASSAYER
Clarence Leong

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GEOCHEMICAL ANALYSIS CERTIFICATE

Almaden Minerals Ltd. PROJECT ELK04-4 File # A403885 Page 1

1103 - 750 W. Pender St., Vancouver BC V6C 2T8

SAMPLE#	Au* ppb	Sample kg
SI	<.5	-
SND374-1	88.9	.67
SND374-2	76.3	.49
SND374-3	8.4	.74
SND374-4	22.7	1.72
SND374-5	141.5	.95
SND374-6	500.6	1.17
SND374-7	11.0	1.30
SND374-8	31.0	1.89
SND374-9	15.8	1.12
SND374-10	104.0	.85
SND374-11	149.2	.46
SND374-12	15.6	1.05
SND374-14	16.6	.56
SND374-15	5.9	1.48
SND374-16	2097.0	1.26
SND374-17	23227.9	.88
RE SND374-17	28232.2	-
RRE SND374-17	39261.2	-
SND374-18	333.6	2.36
SND374-20	93.9	2.27
SND374-23	83.0	2.31
SND374-24	118.5	2.35
SND374-25	174.0	.70
SND374-26	275.9	1.60
SND374-27	10.9	1.87
SND374-28	507.3	2.00
SND374-29	14.8	.72
SND374-30	10.9	.71
SND374-31	11.2	.83
SND374-32	2.2	1.18
SND374-33(PULP)	8940.7	-
SND374-34	5.0	.81
SND374-35	116.5	.76
SND374-36	12.1	.80
STANDARD AU-R	475.1	-

GROUP 3A - 30 GM SAMPLE LEACHED WITH 180 ML 2-2-2 HCL-HNO3-H2O AT 95 DEG. C FOR ONE HOUR, DILUTED TO 600 ML, ANALYSED BY ICP-MS.
UPPER LIMITS - AU* = 100 PPM.
- SAMPLE TYPE: CORE R150 60C Samples beginning 'RE' are Reruns and 'RRE' are Reject Reruns.

Data Wa FA ____ DATE RECEIVED: JUL 23 2004 DATE REPORT MAILED: Aug 12/04

BRITISH COLUMBIA CERTIFIED ASSAYER
Clarence Leong

SAMPLE#	Au* ppb	Sample kg
SND374-37	859.7	.95
SND374-38	29.9	1.08
SND374-39	220.2	.97
SND374-40	850.2	.62
SND374-41	55.1	.95
SND374-42	171.8	.81
SND374-43	33.6	.83
SND374-44	27.7	.76
SND374-45	9.3	.81
SND374-46	10.1	1.45
SND374-47	5.0	1.15
SND374-48	9.3	1.09
SND374-50	28.9	1.21
SND374-51	25.9	1.00
RE SND374-51	28.4	-
RRE SND374-51	35.5	-
SND374-52	4.8	.77
SND374-53(PULP)	33643.1	-
SND374-54	5.6	.64
SND374-55	193.6	.68
SND374-56	1085.8	.72
SND374-57	839.1	.69
SND374-58	306.8	.84
SND374-59	1026.8	.87
SND374-60	31.5	2.25
SND374-61	380.6	.71
SND374-62	128.2	1.22
SND374-63	38.4	1.40
SND374-64	54.1	1.03
SND374-65	1.9	.95
SND374-66	510.8	2.21
SND374-68	20.4	2.11
SND374-69	116.8	1.51
SND374-70	220.5	.76
STANDARD AU-R	482.2	-

Sample type: CORE R150 60C. Samples beginning 'RE' are Reruns and 'RRE' are Reject Reruns.

Data FA

ACME ANALYTICAL LABORATORIES LTD. 852 E. HASTINGS ST. VANCOUVER BC V6A 1R6 PHONE(604)253-3158 FAX(604)253-1716
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ASSAY CERTIFICATE

Almaden Minerals Ltd. PROJECT ELK04-4 File # A403885R
1103 - 750 W. Pender St., Vancouver BC V6C 2T8

SAMPLE#	S.Wt gm	NAu mg	-Au gm/mt	TotAu gm/mt
SI	<1	<.01	<.01	<.01
SND374-17	411	1.81	15.88	20.28
STANDARD AU-1	<1	<.01	3.35	3.35

-AU : -150 AU BY FIRE ASSAY FROM TOTAL SAMPLE. DUPAU: AU DUPLICATED FROM -150 MESH. NAU - NATIVE GOLD, TOTAL SAMPLE FIRE ASSAY.
- SAMPLE TYPE: CORE REJ.

Data___ FA ____ **DATE RECEIVED:** AUG 16 2004 **DATE REPORT MAILED:** Aug. 23/04...

BRITISH COLUMBIA CERTIFIED ASSAYER
C.L.
Clarence Leong

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(ISO 9002 Accredited Co.)

ASSAY CERTIFICATE

Almaden Minerals Ltd. PROJECT ELK04-4 File # A403885R2

1103 - 750 W. Pender St., Vancouver BC V6C 2T8

SAMPLE#	S.Wt gm	NAg mg	-Ag gm/mt	TotAg gm/mt
SI	<1	<2	<2	<2
SND374-17	411	<2	31	31
STANDARD R-2a	<1	<2	157	257

-AG : -150 AG BY FIRE ASSAY FROM 1 A.T. SAMPLE. DUPAG: AG DUPLICATED FROM -150 MESH. NAG - NATIVE SILVER, TOTAL SAMPLE FIRE ASSAY.
- SAMPLE TYPE: CORE REJ.

Data___ FA DATE RECEIVED: AUG 23 2004 DATE REPORT MAILED: Sept. 8/04

BRITISH COLUMBIA CERTIFIED ASSAYER
C.L
Clarence Leong

ACME ANALYTICAL LABORATORIES LTD. 852 E. HASTINGS ST. VANCOUVER BC V6A 1R6 PHONE(604)253-3158 FAX(604)253-1716
(ISO 9002 Accredited Co.)

GEOCHEMICAL ANALYSIS CERTIFICATE

Almaden Minerals Ltd. PROJECT ELK04-5 File # A404152 Page 1

1103 - 750 W. Pender St., Vancouver BC V6C 2T8

SAMPLE#	Au* ppb
SI	<.5
SND 375-1	2.0
SND 375-2	124.7
SND 375-3	5068.1
SND 375-4	4526.8
SND 375-5	93.9
SND 375-6	272.2
SND 375-7	27.4
SND 375-8	192.1
SND 375-9	1165.1
SND 375-10	256.1
SND 375-11	380.1
SND 375-12	946.4
SND 375-13	23704.4
SND 375-14	15.8
SND 375-15	33.9
RE SND 375-15	16.1
RRE SND 375-15	8.4
SND 375-16	4.5
SND 375-17(PULP)	34187.0
SND 375-18	4153.0
SND 375-19	584.7
SND 375-19	617.7
SND 375-20	28.0
SND 375-21	195.3
SND 375-22	81.9
SND 375-23	141.3
SND 375-24	92.3
SND 375-25	425.2
SND 375-26	53.0
SND 375-27	1614.3
SND 375-28	12.1
SND 375-29	45.6
SND 375-30	99.7
SND 375-31	342.5
SND 375-32	210.8
STANDARD AU-R	490.0

GROUP 3A - 30 GM SAMPLE LEACHED WITH 180 ML 2-2-2 HCL-HNO3-H2O AT 95 DEG. C FOR ONE HOUR, DILUTED TO 600 ML, ANALYSED BY ICP-MS.
UPPER LIMITS - AU* = 100 PPM.
- SAMPLE TYPE: CORE R150 60C Samples beginning 'RE' are Reruns and 'RRE' are Reject Reruns.

Data A FA ____ DATE RECEIVED: AUG 3 2004 DATE REPORT MAILED: Aug. 17/04

BRITISH COLUMBIA CERTIFIED ASSAYER
Clarence Leong

SAMPLE#	Au* ppb
SND 375-33	40.1
SND 375-34	67.2
SND 375-35	63.9
SND 375-36	<.5
SND 375-38	9.5
SND 375-39	47.7
SND 375-40	8.7
SND 375-41	51.3
SND 375-42	2.2
SND 375-43	.6
SND 375-44	1491.5
SND 375-45	702.8
SND 375-46	12.1
SND 375-47	24.3
SND 375-48	49.7
SND 375-49	24.7
SND 375-50	73.3
SND 375-51	13.1
RE SND 375-51	17.0
RRE SND 375-51	27.1
SND 375-52	5.9
SND 375-53	3027.2
SND 375-54	622.5
SND 375-55	491.0
SND 375-56	3.8
SND 375-58	3923.4
SND 375-59	1351.0
SND 375-60	261.5
SND 375-61	855.6
SND 375-62	3.8
SND 375-63	562.6
SND 375-64	1986.3
SND 375-65	989.8
SND 375-66	466.4
STANDARD AU-R	482.4

Sample type: CORE R150 60C. Samples beginning 'RE' are Reruns and 'RRE' are Reject Reruns.

Data A FA ___

ACME ANALYTICAL LABORATORIES LTD. 852 E. HASTINGS ST. VANCOUVER BC V6A 1R6 PHONE(604)253-3158 FAX(604)253-1716
(ISO 9002 Accredited Co.)

GEOCHEMICAL ANALYSIS CERTIFICATE

Almaden Minerals Ltd. PROJECT ELK04-5 File # A404152R

1103 - 750 W. Pender St., Vancouver BC V6C 2T8

SAMPLE#	Mo ppm	Cu ppm	Pb ppm	Zn ppm	Ag ppm	Ni ppm	Co ppm	Mn ppm	Fe %	As ppm	U ppm	Au ppb	Th ppm	Sr ppm	Cd ppm	Sb ppm	Bi ppm	V ppm	Ca %	P %	La ppm	Cr ppm	Mg %	Ba ppm	Ti %	B ppm	Al %	Na %	K %	W ppm	Hg ppm	Sc ppm	Tl ppm	S %	Ga ppm	Se ppm
SI	.1	2.3	.6	1	<.1	.1	<.1	<1	.05	1.8	<.1	9.3	<.1	2	<.1	<.1	.1	<1	.08	<.001	<1	1.1	<.01	2	<.001	<1	.01	.373	.01	.1	<.01	<.1	<.1	<.05	<1	<.5
SND 375-13	1.2	1161.5	213.7	87	8.0	1.4	4.5	581	5.86	76.9	7.0	9657.8	10.6	3	2.1	1.8	65.1	1	.07	.025	6	1.1	.04	23	.001	<1	.16	.008	.17	1.4	.02	.4	.1	4.94	<1	<.5
STANDARD DS5	12.1	146.4	25.5	140	.3	24.8	12.1	783	2.97	17.8	6.0	42.0	2.6	45	5.2	3.3	5.9	62	.73	.095	12	190.9	.67	133	.098	17	1.98	.032	.14	4.7	.17	3.3	1.0	<.05	6	4.9

GROUP 1DX - 0.50 GM SAMPLE LEACHED WITH 3 ML 2-2-2 HCL-HNO3-H2O AT 95 DEG. C FOR ONE HOUR, DILUTED TO 10 ML, ANALYSED BY ICP-MS.
(>) CONCENTRATION EXCEEDS UPPER LIMITS. SOME MINERALS MAY BE PARTIALLY ATTACKED. REFRACTORY AND GRAPHITIC SAMPLES CAN LIMIT AU SOLUBILITY.
- SAMPLE TYPE: CORE REJ.

Data N FA ____ DATE RECEIVED: AUG 23 2004 DATE REPORT MAILED: Sept. 1/04

BRITISH COLUMBIA CERTIFIED ASSAYER
Clarence Leong

ACME ANALYTICAL LABORATORIES LTD. 852 E. HASTINGS ST. VANCOUVER BC V6A 1R6 PHONE(604)253-3158 FAX(604)253-1716
(ISO 9002 Accredited Co.)

GEOCHEMICAL ANALYSIS CERTIFICATE

Almaden Minerals Ltd. PROJECT ELK04-5 File # A404153

1103 - 750 W. Pender St., Vancouver BC V6C 2T8

SAMPLE#	Mo ppm	Cu ppm	Pb ppm	Zn ppm	Ag ppm	Ni ppm	Co ppm	Mn ppm	Fe %	As ppm	U ppm	Au ppb	Th ppm	Sr ppm	Cd ppm	Sb ppm	Bi ppm	V ppm	Ca %	P %	La ppm	Cr ppm	Mg %	Ba ppm	Ti %	B ppm	Al %	Na %	K %	W ppm	Hg ppm	Sc ppm	Tl ppm	S %	Ga ppm	Se ppm	Ag** gm/mt	Au** gm/mt
SND 375-37	15.5	305.8	318.1	378	5.1	168.9	22.6	554	3.40	197.4	3.0	11767.9	2.4	47	2.6	16.0	4.5	52	1.23	.044	6	294.0	.53	96	.036	3	1.05	.030	.37	6.1	.39	4.5	.6	1.19	4	1.6	5	10.24
SND 375-57	19.3	53.0	389.2	34	4.5	1074.1	27.3	407	2.17	57.4	.5	31810.9	3.2	17	.1	.5	4.5	31	.48	.033	13	1318.7	.62	143	.043	7	.99	.040	.28	12.6	.01	2.2	.1	<.05	3	<.5	5	34.16
STANDARD D	12.2	145.3	25.4	140	.3	24.2	11.9	788	3.04	17.8	6.2	43.0	2.9	45	5.7	3.4	6.0	59	.76	.104	12	190.0	.68	133	.102	16	2.02	.035	.15	4.7	.17	3.4	1.0	<.05	6	5.1	159	3.45

Standard is STANDARD DS5/R-2a/AU-1.

GROUP 1DX - 0.50 GM SAMPLE LEACHED WITH 3 ML 2-2-2 HCL-HNO3-H2O AT 95 DEG. C FOR ONE HOUR, DILUTED TO 10 ML, ANALYSED BY ICP-MS.

(>) CONCENTRATION EXCEEDS UPPER LIMITS. SOME MINERALS MAY BE PARTIALLY ATTACKED. REFRACTORY AND GRAPHITIC SAMPLES CAN LIMIT AU SOLUBILITY.

AG** & AU** BY FIRE ASSAY FROM 1/2 A.T. SAMPLE.

- SAMPLE TYPE: CORE PULP

Data 1 FA ____ DATE RECEIVED: AUG 3 2004 DATE REPORT MAILED: Aug. 18/04

BRITISH COLUMBIA CERTIFIED ASSAYER
C. L
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ACME ANALYTICAL LABORATORIES LTD. 852 E. HASTINGS ST. VANCOUVER BC V6A 1R6 PHONE(604)253-3158 FAX(604)253-1716
(ISO 9002 Accredited Co.)

GEOCHEMICAL ANALYSIS CERTIFICATE

Almaden Minerals Ltd. PROJECT ELK04-6 File # A404683

1103 - 750 W. Pender St., Vancouver BC V6C 2T8

SAMPLE#	Mo ppm	Cu ppm	Pb ppm	Zn ppm	Ag ppm	Ni ppm	Co ppm	Mn ppm	Fe %	As ppm	U ppm	Au ppb	Th ppm	Sr ppm	Cd ppm	Sb ppm	Bi ppm	V ppm	Ca %	P %	La ppm	Cr ppm	Mg %	Ba ppm	Ti %	B ppm	Al %	Na %	K %	W ppm	Hg ppm	Sc ppm	Tl ppm	S %	Ga ppm	Se ppm	Ag** gm/mt	Au** gm/mt
SI	.1	3.6	1.8	3	<.1	1.1	.4	15	.15	<.5	<.1	.6	<.1	4	<.1	<.1	<.1	<1	.19	.002	<1	1.3	.01	4	<.001	1	.01	.665	.01	<.1	<.01	.1	<.1	.06	<1	<.5	<2	<.01
SND 377-8	2.8	860.1	2026.1	4819	14.8	3.2	15.3	1614	7.94	131.1	3.4	14419.4	7.4	5	126.2	7.3	7.8	3	.15	.035	5	<1	.08	15	.001	2	.29	.006	.26	.2	.05	1.6	.5	6.43	1	.8	14	13.66
SND 377-9	3.0	299.6	1289.9	3228	6.5	3.7	13.3	1875	5.02	134.2	4.0	8721.9	8.9	12	64.0	3.0	3.5	8	.23	.044	10	2.4	.12	63	.001	4	.39	.010	.26	.3	.07	2.5	.3	2.83	1	.5	7	5.50
SN 380-29	1.4	244.7	148.0	339	3.4	2.5	5.9	825	2.26	285.7	5.3	74.7	8.4	7	5.9	.4	.3	7	.23	.069	19	1.1	.10	44	.005	<1	.43	.013	.31	.1	<.01	1.8	.2	1.06	1	<.5	4	.20
SN 380-30	.3	62.1	169.2	343	3.8	1.8	2.4	85	2.19	293.5	.6	1777.9	.7	1	9.1	.4	1.3	1	.02	.006	1	10.7	.01	6	.001	<1	.09	.002	.07	.4	.01	.2	<.1	1.63	<1	<.5	3	1.93
STANDARD	12.3	145.6	25.7	139	.3	25.2	11.8	797	3.03	18.0	6.1	42.0	2.7	49	5.6	3.4	6.4	60	.72	.086	12	183.3	.67	137	.105	17	2.01	.032	.13	5.1	.17	3.5	1.1	<.05	7	4.8	160	3.42

Standard is STANDARD DS5/R-2a/AU-1.

GROUP 1DX - 0.50 GM SAMPLE LEACHED WITH 3 ML 2-2-2 HCL-HNO3-H2O AT 95 DEG. C FOR ONE HOUR, DILUTED TO 10 ML, ANALYSED BY ICP-MS.

(>) CONCENTRATION EXCEEDS UPPER LIMITS. SOME MINERALS MAY BE PARTIALLY ATTACKED. REFRACTORY AND GRAPHITIC SAMPLES CAN LIMIT AU SOLUBILITY.

AG** & AU** FIRE ASSAY FROM 1 A.T. SAMPLE.

- SAMPLE TYPE: CORE R150 60C

Data N FA ____ DATE RECEIVED: AUG 17 2004 DATE REPORT MAILED: Sept. 3/04

BRITISH COLUMBIA CERTIFIED ASSAYER
C.L
Clarence Leong

ACME ANALYTICAL LABORATORIES LTD. 852 E. HASTINGS ST. VANCOUVER BC V6A 1R6 PHONE(604)253-3158 FAX(604)253-1716
(ISO 9002 Accredited Co.)

GEOCHEMICAL ANALYSIS CERTIFICATE

Almaden Minerals Ltd. PROJECT ELK04-6 File # A404684

1103 - 750 W. Pender St., Vancouver BC V6C 2T8

SAMPLE#	Mo ppm	Cu ppm	Pb ppm	Zn ppm	Ag ppm	Ni ppm	Co ppm	Mn ppm	Fe %	As ppm	U ppm	Au ppb	Th ppm	Sr ppm	Cd ppm	Sb ppm	Bi ppm	V ppm	Ca %	P %	La ppm	Cr ppm	Mg %	Ba ppm	Ti %	B ppm	Al %	Na %	K %	W ppm	Hg ppm	Sc ppm	Tl ppm	S %	Ga ppm	Se ppm
SI	<.1	73.8	.9	2	<.1	.4	.2	3	.06	<.5	<.1	<.5	<.1	3	<.1	<.1	<.1	1	.14	<.001	<1	1.6	<.01	3	<.001	<1	.01	.527	.01	<.1	<.01	.1	<.1	.06	<1	<.5
SND 380-30	2.4	1328.5	21.7	94	25.8	5.3	13.6	1524	11.08	109.1	3.6	19675.5	3.6	5	1.8	.3	10.6	5	.30	.058	9	1.0	.19	28	.001	1	.33	.008	.26	.2	.01	1.5	.7	7.17	1	<.5
STANDARD DS5	12.4	144.5	25.3	133	.3	24.0	12.4	785	2.93	17.0	5.9	37.4	2.6	45	5.4	3.5	5.9	58	.73	.080	12	177.7	.67	130	.107	17	1.98	.032	.13	4.9	.15	3.4	1.0	<.05	7	4.7

GROUP 1DX - 0.50 GM SAMPLE LEACHED WITH 3 ML 2-2-2 HCL-HNO3-H2O AT 95 DEG. C FOR ONE HOUR, DILUTED TO 10 ML, ANALYSED BY ICP-MS.
(>) CONCENTRATION EXCEEDS UPPER LIMITS. SOME MINERALS MAY BE PARTIALLY ATTACKED. REFRACTORY AND GRAPHITIC SAMPLES CAN LIMIT AU SOLUBILITY.
- SAMPLE TYPE: CORE R150 60C

Data___ FA _____ DATE RECEIVED: AUG 17 2004 DATE REPORT MAILED: Sept. 9/04

BRITISH COLUMBIA CERTIFIED ASSAYER
C.T
Clarence Leong

ACME ANALYTICAL LABORATORIES LTD. 852 E. HASTINGS ST. VANCOUVER BC V6A 1R6 PHONE(604)253-3158 FAX(604)253-1716
(ISO 9002 Accredited Co.)

ASSAY CERTIFICATE

Almaden Minerals Ltd. PROJECT ELK04-6 File # A404684
1103 - 750 W. Pender St., Vancouver BC V6C 2T8

SAMPLE#	S.Wt gm	NAg mg	-Ag gm/mt	TotAg gm/mt
SI	<2	<.06	<2	<2
SND 380-30	862	2.00	24	26
STANDARD R-2a	<2	<.06	159	159

-AG : -150 AG BY FIRE ASSAY FROM 1 A.T. SAMPLE. DUPAG: AG DUPLICATED FROM -150 MESH. NAG - NATIVE SILVER, TOTAL SAMPLE FIRE ASSAY.
- SAMPLE TYPE: CORE R150 60C

Data___ FA 4 DATE RECEIVED: AUG 17 2004 DATE REPORT MAILED: Sept. 9/04

BRITISH COLUMBIA CERTIFIED ASSAYER
C.L
Clarence Leong

ACME ANALYTICAL LABORATORIES LTD. 852 E. HASTINGS ST. VANCOUVER BC V6A 1R6 PHONE(604)253-3158 FAX(604)253-1716
(ISO 9002 Accredited Co.)

GEOCHEMICAL ANALYSIS CERTIFICATE

Almaden Minerals Ltd. PROJECT ELK04-6 File # A404684

1103 - 750 W. Pender St., Vancouver BC V6C 2T8

SAMPLE#	Mo ppm	Cu ppm	Pb ppm	Zn ppm	Ag ppm	Ni ppm	Co ppm	Mn ppm	Fe %	As ppm	U ppm	Au ppb	Th ppm	Sr ppm	Cd ppm	Sb ppm	Bi ppm	V ppm	Ca %	P %	La ppm	Cr ppm	Mg %	Ba ppm	Ti %	B ppm	Al %	Na %	K %	W ppm	Hg ppm	Sc ppm	Tl ppm	S %	Ga ppm	Se ppm
SI	<.1	73.8	.9	2	<.1	.4	.2	3	.06	<.5	<.1	<.5	<.1	3	<.1	<.1	<.1	1	.14	<.001	<1	1.6	<.01	3	<.001	<1	.01	.527	.01	<.1	<.01	.1	<.1	.06	<1	<.5
SND 380-20	2.4	1328.5	21.7	94	25.8	5.3	13.6	1524	11.08	109.1	3.6	19675.5	3.6	5	1.8	.3	10.6	5	.30	.058	9	1.0	.19	28	.001	1	.33	.008	.26	.2	.01	1.5	.7	7.17	1	<.5
STANDARD DS5	12.4	144.5	25.3	133	.3	24.0	12.4	785	2.93	17.0	5.9	37.4	2.6	45	5.4	3.5	5.9	58	.73	.080	12	177.7	.67	130	.107	17	1.98	.032	.13	4.9	.15	3.4	1.0	<.05	7	4.7

GROUP 1DX - 0.50 GM SAMPLE LEACHED WITH 3 ML 2-2-2 HCL-HNO3-H2O AT 95 DEG. C FOR ONE HOUR, DILUTED TO 10 ML, ANALYSED BY ICP-MS.
(>) CONCENTRATION EXCEEDS UPPER LIMITS. SOME MINERALS MAY BE PARTIALLY ATTACKED. REFRACTORY AND GRAPHITIC SAMPLES CAN LIMIT AU SOLUBILITY.
- SAMPLE TYPE: CORE R150 60C

Data 1 FA ____ DATE RECEIVED: AUG 17 2004 DATE REPORT MAILED: Sept 24/04

REVISED COPY sample name

BRITISH COLUMBIA CERTIFIED ASSAYER
C.L
Clarence Leong

ACME ANALYTICAL LABORATORIES LTD. 852 E. HASTINGS ST. VANCOUVER BC V6A 1R6 PHONE(604)253-3158 FAX(604)253-1716
(ISO 9002 Accredited Co.)

ASSAY CERTIFICATE

Almaden Minerals Ltd. PROJECT ELK04-6 File # A404684

1103 - 750 W. Pender St., Vancouver BC V6C 2T8

SAMPLE#	S.Wt gm	NAu mg	-Au gm/mt	TotAu gm/mt
SI	<1	<.01	<.01	<.01
SND 380-20	862	4.62	20.40	25.76
STANDARD AU-1	<1	.10	3.46	3.46

-AU : -150 AU BY FIRE ASSAY FROM 1 A.T. SAMPLE. DUPAU: AU DUPLICATED FROM -150 MESH. NAU - NATIVE GOLD, TOTAL SAMPLE FIRE ASSAY.
- SAMPLE TYPE: CORE R150 60C

Data 1 FA ____ DATE RECEIVED: AUG 17 2004 DATE REPORT MAILED: Sept 24/04

REVISED COPY sample name

BRITISH COLUMBIA CERTIFIED ASSAYER
Clarence Leong

ACME ANALYTICAL LABORATORIES LTD. 852 E. HASTINGS ST. VANCOUVER BC V6A 1R6 PHONE(604)253-3158 FAX(604)253-1716
(ISO 9002 Accredited Co.)

GEOCHEMICAL ANALYSIS CERTIFICATE

Almaden Minerals Ltd. PROJECT ELK04-6 File # A404685 Page 1

1103 - 750 W. Pender St., Vancouver BC V6C 2T8

SAMPLE#	Au* ppb
SI	<.5
SND 376-1	3.3
SND 376-2	1244.1
SND 376-3	5.4
SND 376-4	986.7
SND 376-5	2753.9
SND 376-6	20.6
SND 377-1	4.8
SND 377-2	411.0
SND 377-3	387.8
SND 377-4	2.6
SND 377-5(PULP)	9884.4
SND 377-6	2.0
SND 377-7	5.0
SND 378-1	14.6
RE SND 378-1	16.9
RRE SND 378-1	14.9
SND 378-2	40.5
SND 378-3	27.8
SND 378-4	41.9
SND 378-5	89.0
SND 378-6	72.8
SND 379-1	6.7
SND 379-2	10.2
SND 379-3	8.3
SND 379-4	3.8
SND 379-5	101.1
SND 379-6	4.0
SND 379-7	4.4
SND 379-8	2.0
SND 379-9	.5
SND 379-10(PULP)	30512.6
SND 379-11	8.0
SND 379-12	22.0
SND 379-13	1361.2
STANDARD AU-R	482.9

AU* IGNITED, ACID LEACHED, ANALYZED BY ICP-MS. (30 gm)
- SAMPLE TYPE: CORE R150 60C
Samples beginning 'RE' are Reruns and 'RRE' are Reject Reruns.

Data f FA ____ DATE RECEIVED: AUG 17 2004 DATE REPORT MAILED: Sept 2/04

BRITISH COLUMBIA CERTIFIED ASSAYER
Clarence Leong

SAMPLE#	Au* ppb
SND 379-14	29.0
SND 379-15	471.7
SND 379-16	2725.3
SND 379-17	43.1
SND 379-18	9.3
SND 379-19	57.4
SND 379-20	16.5
SND 379-21	1305.4
SND 379-22	225.1
SND 379-23	20.1
SND 379-24	892.9
SND 379-25	35.9
SND 379-26	88.1
SND 380-1	7.8
SND 380-2	3.0
SND 380-3	<.5
SND 380-4 (PULP)	8586.7
SND 380-5	140.8
RE SND 380-5	206.7
RRE SND 380-5	163.6
SND 380-6	27.4
SND 380-7	86.3
SND 380-8	775.4
SND 380-9	819.2
SND 380-10	36.5
SND 380-11	3.3
SND 380-12	2.4
SND 380-13	21.9
SND 380-14	129.2
SND 380-15	10.2
SND 380-16	3.8
SND 380-17	583.3
SND 380-18	27.0
SND 380-19	2.9
STANDARD AU-R	487.2

Sample type: CORE R150 60C. Samples beginning 'RE' are Reruns and 'RRE' are Reject Reruns.

Data 1 FA ___

SAMPLE#	Au* ppb
SND 380-21	63.8
SND 380-22	141.4
SND 380-23	.6
SND 380-24(PULP)	34983.1
SND 380-25	206.0
RE SND 380-25	227.5
RRE SND 380-25	159.9
SND 380-26	96.9
SND 380-27	28.0
SND 380-28	33.3
SND 380-31	230.5
SND 380-32	2.1
STANDARD AU-R	487.8

Sample type: CORE R150 60C. Samples beginning 'RE' are Reruns and 'RRE' are Reject Reruns.

Data f FA ___

ACME ANALYTICAL LABORATORIES LTD. 852 E. HASTINGS ST. VANCOUVER BC V6A 1R6 PHONE(604)253-3158 FAX(604)253-1716
(ISO 9002 Accredited Co.)

GEOCHEMICAL ANALYSIS CERTIFICATE

Almaden Minerals Ltd. PROJECT ELK04-7 File # A405144

1103 - 750 W. Pender St., Vancouver BC V6C 2T8

SAMPLE#	Mo ppm	Cu ppm	Pb ppm	Zn ppm	Ag ppm	Ni ppm	Co ppm	Mn ppm	Fe %	As ppm	U ppm	Au ppb	Th ppm	Sr ppm	Cd ppm	Sb ppm	Bi ppm	V ppm	Ca %	P %	La ppm	Cr ppm	Mg %	Ba ppm	Ti %	B ppm	Al %	Na %	K %	W ppm	Hg ppm	Sc ppm	Tl ppm	S %	Ga ppm	Se ppm	Ag** gm/mt	Au** gm/mt	Sample kg
SI	<.1	.6	.5	<1	<.1	1.1	.1	<1	.03	<.5	<.1	<.5	<.1	3	<.1	<.1	<.1	<1	.12	<.001	<1	2.4	<.01	3	<.001	5	.01	.557	.01	.3	<.01	.1	<.1	<.05	<1	<.5	<2	.04	-
SE6-3P	4.3	21.7	115.6	58	4.2	7.0	2.3	140	2.59	15.1	4.7	892.3	6.7	44	.3	8.0	1.9	8	.03	.062	25	15.8	.04	267	.003	2	.39	.011	.29	1.4	.02	1.2	.1	.15	2	.5	5	1.05	12.17
SE6-4	6.0	24.4	414.7	81	34.4	8.0	2.1	188	3.63	29.9	4.8	13407.5	4.9	36	.7	18.3	10.9	5	.03	.086	11	9.2	.03	425	.002	2	.26	.009	.22	1.9	.11	.7	.1	.31	1	<.5	38	23.95	1.30
STANDARD	12.3	143.3	24.1	134	.3	25.0	11.7	783	3.00	18.1	5.7	42.0	2.7	47	5.5	3.5	5.7	62	.76	.091	13	186.7	.68	138	.104	18	2.00	.033	.15	4.5	.18	3.6	1.1	<.05	7	5.0	156	3.38	-

Standard is STANDARD DS5/R-2a/AU-1.

GROUP 1DX - 0.50 GM SAMPLE LEACHED WITH 3 ML 2-2-2 HCL-HNO3-H2O AT 95 DEG. C FOR ONE HOUR, DILUTED TO 10 ML, ANALYSED BY ICP-MS.

(>) CONCENTRATION EXCEEDS UPPER LIMITS. SOME MINERALS MAY BE PARTIALLY ATTACKED. REFRACTORY AND GRAPHITIC SAMPLES CAN LIMIT AU SOLUBILITY.

AU** & AG** BY FIRE ASSAY FROM 1 A.T. SAMPLE.

- SAMPLE TYPE: ROCK R150 60C

Data 1/2 FA ____ DATE RECEIVED: AUG 31 2004 DATE REPORT MAILED: Sept. 21/04

BRITISH COLUMBIA CERTIFIED ASSAYER C.L Clarence Leong

ACME ANALYTICAL LABORATORIES LTD. 852 E. HASTINGS ST. VANCOUVER BC V6A 1R6 PHONE(604)253-3158 FAX(604)253-1716
(ISO 9002 Accredited Co.)

GEOCHEMICAL ANALYSIS CERTIFICATE

Almaden Minerals Ltd. PROJECT ELK04-7 File # A405145

1103 - 750 W. Pender St., Vancouver BC V6C 2T8

SAMPLE#	Mo ppm	Cu ppm	Pb ppm	Zn ppm	Ag ppm	Ni ppm	Co ppm	Mn ppm	Fe %	As ppm	U ppm	Au ppb	Th ppm	Sr ppm	Cd ppm	Sb ppm	Bi ppm	V ppm	Ca %	P %	La ppm	Cr ppm	Mg %	Ba ppm	Ti %	B ppm	Al %	Na %	K %	W ppm	Hg ppm	Sc ppm	Tl ppm	S %	Ga ppm	Se ppm	Ag** gm/mt	Au** gm/mt
SI	.1	2.7	.3	1	<.1	.2	.1	9	.05	<.5	<.1	<.5	<.1	2	<.1	<.1	<.1	<1	.07	.001	<1	1.0	<.01	5	<.001	<1	.01	.317	.01	.2	<.01	<.1	<.1	<.05	<1	<.5	<2	.01
SND381-20	8.2	460.0	30.0	82	5.6	4.0	6.5	1382	6.83	102.4	4.2	7944.8	3.6	6	1.2	.2	1.7	4	.28	.060	8	4.5	.12	31	.001	<1	.38	.009	.35	1.2	.01	1.3	.1	4.64	1	<.5	4	2.77
STANDARD	12.3	140.0	24.0	138	.3	24.7	12.0	739	2.97	17.8	6.4	41.8	2.7	50	5.7	3.4	5.9	58	.75	.093	13	187.7	.65	137	.098	15	2.00	.034	.15	4.7	.19	3.4	1.1	<.05	7	4.6	156	3.45

Standard is STANDARD DS5/R-2a/AU-1.
GROUP 1DX - 0.50 GM SAMPLE LEACHED WITH 3 ML 2-2-2 HCL-HNO3-H2O AT 95 DEG. C FOR ONE HOUR, DILUTED TO 10 ML, ANALYSED BY ICP-MS.
(>) CONCENTRATION EXCEEDS UPPER LIMITS. SOME MINERALS MAY BE PARTIALLY ATTACKED. REFRACTORY AND GRAPHITIC SAMPLES CAN LIMIT AU SOLUBILITY.
AG** & AU** BY FIRE ASSAY FROM 1 A.T. SAMPLE.
- SAMPLE TYPE: CORE R150 60C

Data f FA ____ DATE RECEIVED: AUG 31 2004 DATE REPORT MAILED: Sept 21/04

BRITISH COLUMBIA CERTIFIED ASSAYER
C. L
Clarence Leong

ACME ANALYTICAL LABORATORIES LTD. 852 E. HASTINGS ST. VANCOUVER BC V6A 1R6 PHONE(604)253-3158 FAX(604)253-1716
(ISO 9002 Accredited Co.)

GEOCHEMICAL ANALYSIS CERTIFICATE

Almaden Minerals Ltd. PROJECT ELK04-7 File # A405146

1103 - 750 W. Pender St., Vancouver BC V6C 2T8

SAMPLE#	Mo ppm	Cu ppm	Pb ppm	Zn ppm	Ag ppm	Ni ppm	Co ppm	Mn ppm	Fe %	As ppm	U ppm	Au ppb	Th ppm	Sr ppm	Cd ppm	Sb ppm	Bi ppm	V ppm	Ca %	P %	La ppm	Cr ppm	Mg %	Ba ppm	Ti %	B ppm	Al %	Na %	K %	W ppm	Hg ppm	Sc ppm	Tl ppm	S %	Ga ppm	Se ppm
SI	.1	2.3	.7	2	<.1	.4	.1	1	.07	<.5	<.1	<.5	<.1	1	<.1	<.1	<.1	1	.05	<.001	<1	1.0	<.01	3	<.001	1	.01	.271	.01	.1	<.01	<.1	<.1	.06	<1	<.5
SND381-23	3.5	417.6	177.7	43	12.0	2.0	10.7	756	6.16	142.8	3.4	5016.7	5.2	5	.8	.3	6.2	5	.23	.044	8	4.9	.11	27	.002	1	.42	.009	.28	1.3	.01	.8	.1	5.18	1	<.5
SND382-28	2.2	319.9	36.2	37	19.0	2.3	4.6	767	4.42	307.4	2.2	3723.5	2.4	2	.6	1.5	1.2	4	.10	.017	3	8.1	.07	19	.001	1	.24	.004	.19	1.3	.01	.4	.1	2.72	1	<.5
STANDARD DS5	12.5	143.4	25.4	140	.3	24.5	11.9	793	2.95	18.0	6.2	39.2	2.7	46	5.7	3.3	6.3	62	.74	.092	12	187.7	.68	142	.102	17	2.00	.032	.14	5.0	.18	3.3	1.1	<.05	7	5.0

GROUP 1DX - 0.50 GM SAMPLE LEACHED WITH 3 ML 2-2-2 HCL-HNO3-H2O AT 95 DEG. C FOR ONE HOUR, DILUTED TO 10 ML, ANALYSED BY ICP-MS.
(>) CONCENTRATION EXCEEDS UPPER LIMITS. SOME MINERALS MAY BE PARTIALLY ATTACKED. REFRACTORY AND GRAPHITIC SAMPLES CAN LIMIT AU SOLUBILITY.
- SAMPLE TYPE: CORE R150 60C

Data___ FA ____ DATE RECEIVED: AUG 31 2004 DATE REPORT MAILED: Sept. 21/04

BRITISH COLUMBIA CERTIFIED ASSAYER
C.L
Clarence Leong

ACME ANALYTICAL LABORATORIES LTD. 852 E. HASTINGS ST. VANCOUVER BC V6A 1R6 PHONE(604)253-3158 FAX(604)253-1716
(ISO 9002 Accredited Co.)

ASSAY CERTIFICATE

Almaden Minerals Ltd. PROJECT ELK04-7 File # A405146

1103 - 750 W. Pender St., Vancouver BC V6C 2T8

SAMPLE#	S.Wt gm	NAg mg	-Ag gm/mt	TotAg gm/mt
SI	<1	<.06	<2	<2
SND381-23	528	5.09	13	23
SND382-28	523	4.73	17	26
STANDARD R-2a	<1	<.06	157	157

-AG : -150 AG BY FIRE ASSAY FROM 1 A.T. SAMPLE. DUPAG: AG DUPLICATED FROM -150 MESH. NAG - NATIVE SILVER, TOTAL SAMPLE FIRE ASSAY.
- SAMPLE TYPE: CORE R150 60C

Data___ FA 4 DATE RECEIVED: AUG 31 2004 DATE REPORT MAILED: Sept 21/04

BRITISH COLUMBIA CERTIFIED ASSAYER
C.L
Clarence Leong

ACME ANALYTICAL LABORATORIES LTD. 852 E. HASTINGS ST. VANCOUVER BC V6A 1R6 PHONE(604)253-3158 FAX(604)253-1716
(ISO 9002 Accredited Co.)

ASSAY CERTIFICATE

Almaden Minerals Ltd. PROJECT ELK04-7 File # A405146

1103 - 750 W. Pender St., Vancouver BC V6C 2T8

SAMPLE#	S.Wt gm	NAu mg	-Au gm/mt	TotAu gm/mt
SI	<1	<.01	<.01	<.01
SND381-23	528	1.85	6.35	9.85
SND382-28	523	.85	5.41	7.04
STANDARD AU-1	<1	.01	3.45	3.45

-AU : -150 AU BY FIRE ASSAY FROM 1 A.T. SAMPLE. DUPAU: AU DUPLICATED FROM -150 MESH. NAU - NATIVE GOLD, TOTAL SAMPLE FIRE ASSAY.
- SAMPLE TYPE: CORE R150 60C

Data___ FA ____ DATE RECEIVED: AUG 31 2004 DATE REPORT MAILED: Sept 21/04

BRITISH COLUMBIA CERTIFIED ASSAYER
Clarence Leong

ACME ANALYTICAL LABORATORIES LTD. 852 E. HASTINGS ST. VANCOUVER BC V6A 1R6 PHONE(604)253-3158 FAX(604)253-1716
(ISO 9002 Accredited Co.)

ASSAY CERTIFICATE

Almaden Minerals Ltd. PROJECT ELK04-7 File # A405146R

1103 - 750 W. Pender St., Vancouver BC V6C 2T8

SAMPLE#	S.Wt gm	NAu mg	-Au gm/mt	TotAu gm/mt
SI	<1	<.01	<.01	<.01
SND381-23	622	3.02	8.13	12.99
SND382-28	190	.16	5.96	6.80
STANDARD AU-1	<1	.01	3.47	3.47

-AU : -150 AU BY FIRE ASSAY FROM 1 A.T. SAMPLE. DUPAU: AU DUPLICATED FROM -150 MESH. NAU - NATIVE GOLD, TOTAL SAMPLE FIRE ASSAY.
- SAMPLE TYPE: CORE REJ.

Data___ FA _____ DATE RECEIVED: OCT 6 2004 DATE REPORT MAILED: Oct 20/04

BRITISH COLUMBIA CERTIFIED ASSAYER
C.L
Clarence Leong

ACME ANALYTICAL LABORATORIES LTD. 852 E. HASTINGS ST. VANCOUVER BC V6A 1R6 PHONE(604)253-3158 FAX(604)253-1716
(ISO 9002 Accredited Co.)

GEOCHEMICAL ANALYSIS CERTIFICATE

Almaden Minerals Ltd. PROJECT ELK04-7 File # A405147

1103 - 750 W. Pender St., Vancouver BC V6C 2T8

SAMPLE#	Au* ppb	Sample kg
SI	.7	-
SE6-1	14.0	2.15
SE6-2	14.9	1.11
SE6-5	12.6	3.37
STANDARD AU-R	508.3	-

GROUP 3A - 30 GM SAMPLE LEACHED WITH 180 ML 2-2-2 HCL-HNO3-H2O AT 95 DEG. C FOR ONE HOUR, DILUTED TO 600 ML, ANALYSED BY ICP-MS.
UPPER LIMITS - AU* = 100 PPM.
- SAMPLE TYPE: ROCK R150 60C

Data L FA ____ DATE RECEIVED: AUG 31 2004 DATE REPORT MAILED: Sept. 15/04

BRITISH COLUMBIA CERTIFIED ASSAYER
Clarence Leong

ACME ANALYTICAL LABORATORIES LTD. 852 E. HASTINGS ST. VANCOUVER BC V6A 1R6 PHONE(604)253-3158 FAX(604)253-1716
(ISO 9002 Accredited Co.)

GEOCHEMICAL ANALYSIS CERTIFICATE

Almaden Minerals Ltd. PROJECT ELK04-7 File # A405148 Page 1

1103 - 750 W. Pender St., Vancouver BC V6C 2T8

SAMPLE#	Au* ppb
SI	<.5
SND381-1	145.1
SND381-2	3123.5
SND381-3	111.7
SND381-4	739.2
SND381-5	2.3
SND381-6	149.1
SND381-7	27.1
SND381-8	2805.5
SND381-9	17.3
SND381-10	6.7
SND381-11	<.5
SND381-12(PULP)	9216.4
SND381-13	35.2
SND381-14	50.6
SND381-15	3.9
RE SND381-15	1.2
RRE SND381-15	1.9
SND381-16	31.4
SND381-17	239.1
SND381-18	97.5
SND381-19	2.3
SND381-21	3.4
SND381-22	41.5
SND381-24	1.5
SND381-25	17.1
SND381-26	7.5
SND381-27	73.3
SND381-28	72.5
SND381-29	115.7
SND381-30	40.8
SND381-31	1.2
SND381-32(PULP)	31940.9
SND381-33	5223.2
SND381-34	6244.8
STANDARD AU-R	508.3

GROUP 3A - 30 GM SAMPLE LEACHED WITH 180 ML 2-2-2 HCL-HNO3-H2O AT 95 DEG. C FOR ONE HOUR, DILUTED TO 600 ML, ANALYSED BY ICP-MS.
UPPER LIMITS - AU* = 100 PPM.
- SAMPLE TYPE: CORE R150 60C Samples beginning 'RE' are Reruns and 'RRE' are Reject Reruns.

Data / FA ____ DATE RECEIVED: AUG 31 2004 DATE REPORT MAILED: Sept 17/04

BRITISH COLUMBIA CERTIFIED ASSAYER
C.L
Clarence Leong

SAMPLE#	Au* ppb
SND381-35	179.4
SND381-36	57.5
SND381-37	201.4
SND381-38	416.7
SND382-1	44.4
SND382-2	58.3
SND382-3	86.6
SND382-4	216.7
SND382-5	123.5
SND382-6	202.1
SND382-7	6.0
SND382-8	13.4
SND382-9	2.6
SND382-10	17164.9
SND382-11	129.2
SND382-12	58.4
SND382-13	11.0
SND382-14(PULP)	9617.6
SND382-15	103.6
SND382-16	7.2
SND382-17	1605.2
RE SND382-17	2269.7
RRE SND382-17	4434.7
SND382-18	13.4
SND382-19	41.0
SND382-20	32.2
SND382-21	8546.7
SND382-22	6.0
SND382-23	28.4
SND382-24	94.4
SND382-25	324.7
SND382-26	127.7
SND382-27	23.6
SND382-29	6.7
STANDARD AU-R	482.3

Sample type: CORE R150 60C. Samples beginning 'RE' are Reruns and 'RRE' are Reject Reruns.

Data A FA ___

SAMPLE#	Au* ppb
SND382-30	1.2
SND382-31	28.6
SND382-32	85.8
SND382-33	1.3
SND382-34(PULP)	31972.0
SND382-35	5.0
SND382-36	10.6
RE SND382-36	11.4
RRE SND382-36	4.6
SND382-37	17.4
SND382-38	101.0
SND382-39	12.0
SND382-40	63.3
SND382-41	806.4
STANDARD AU-R	479.8

Sample type: CORE R150 60C. Samples beginning 'RE' are Reruns and 'RRE' are Reject Reruns.

Data K FA ___

ACME ANALYTICAL LABORATORIES LTD. 852 E. HASTINGS ST. VANCOUVER BC V6A 1R6 PHONE(604)253-3158 FAX(604)253-1716
(ISO 9002 Accredited Co.)

ASSAY CERTIFICATE

Almaden Minerals Ltd. PROJECT ELK04-7 File # A405148R
1103 - 750 W. Pender St., Vancouver BC V6C 2T8

SAMPLE#	Au** gm/mt
SND382-10	17.69
STANDARD AU-1	3.37

GROUP 6 - PRECIOUS METALS BY FIRE ASSAY FROM 1 A.T. SAMPLE, ANALYSIS BY ICP-ES.
- SAMPLE TYPE: CORE PULP

Data L FA ____ DATE RECEIVED: SEP 22 2004 DATE REPORT MAILED: Sept. 24/04

BRITISH COLUMBIA CERTIFIED ASSAYER
C. L
Clarence Leong

ACME ANALYTICAL LABORATORIES LTD. 852 E. HASTINGS ST. VANCOUVER BC V6A 1R6 PHONE(604)253-3158 FAX(604)253-1716
(ISO 9002 Accredited Co.)

GEOCHEMICAL ANALYSIS CERTIFICATE

Almaden Minerals Ltd. PROJECT ELK04-8 File # A405561

1103 - 750 W. Pender St., Vancouver BC V6C 2T8 Submitted by: W. Jakubowski

SAMPLE#	Mo ppm	Cu ppm	Pb ppm	Zn ppm	Ag ppm	Ni ppm	Co ppm	Mn ppm	Fe %	As ppm	U ppm	Au ppb	Th ppm	Sr ppm	Cd ppm	Sb ppm	Bi ppm	V ppm	Ca %	P %	La ppm	Cr ppm	Mg %	Ba ppm	Ti %	B ppm	Al %	Na %	K %	W ppm	Hg ppm	Sc ppm	Tl ppm	S %	Ga ppm	Se ppm	Ag** gm/mt	Au** gm/mt
SI	.2	8.1	.5	2	<.1	1.4	36.5	17	.09	48.3	<.1	<.5	<.1	3	<.1	<.1	<.1	<1	.12	.003	<1	<1	.01	3	.008	<1	.03	.378	.01	<.1	.01	.2	<.1	<.05	<1	<.5	<2	<.01
ELK04-R1	3.2	41.6	589.9	894	14.8	1.3	5.3	216	2.99	45.2	.7	158.4	2.6	4	18.1	1.4	2.5	1	.03	.031	7	1.9	.01	63	.002	2	.19	.011	.14	<.1	.18	.3	.1	.31	1	<.5	13	.45
STANDARD DS5/R-2a/AU-1	11.9	144.5	25.4	138	.3	24.4	11.8	775	2.99	17.8	6.2	39.4	2.8	45	5.2	3.3	5.9	59	.72	.094	11	184.7	.68	135	.092	16	2.11	.033	.14	4.5	.17	3.4	1.1	<.05	7	5.0	156	3.44

GROUP 1DX - 0.50 GM SAMPLE LEACHED WITH 3 ML 2-2-2 HCL-HNO3-H2O AT 95 DEG. C FOR ONE HOUR, DILUTED TO 10 ML, ANALYSED BY ICP-MS.
(>) CONCENTRATION EXCEEDS UPPER LIMITS. SOME MINERALS MAY BE PARTIALLY ATTACKED. REFRACTORY AND GRAPHITIC SAMPLES CAN LIMIT AU SOLUBILITY.
AG** & AU** BY FIRE ASSAY FROM 1 A.T. SAMPLE.
- SAMPLE TYPE: ROCK R150 60C

Data f FA ____ DATE RECEIVED: SEP 15 2004 DATE REPORT MAILED: Oct. 6/04

BRITISH COLUMBIA CERTIFIED ASSAYER
C. L
Clarence Leong

ACME ANALYTICAL LABORATORIES LTD. 852 E. HASTINGS ST. VANCOUVER BC V6A 1R6 PHONE(604)253-3158 FAX(604)253-1716
(ISO 9002 Accredited Co.)

GEOCHEMICAL ANALYSIS CERTIFICATE

Almaden Minerals Ltd. PROJECT ELK04-8 File # A405562

1103 - 750 W. Pender St., Vancouver BC V6C 2T8 Submitted by: W. Jakubowski

SAMPLE#	Mo ppm	Cu ppm	Pb ppm	Zn ppm	Ag ppm	Ni ppm	Co ppm	Mn ppm	Fe %	As ppm	U ppm	Au ppb	Th ppm	Sr ppm	Cd ppm	Sb ppm	Bi ppm	V ppm	Ca %	P %	La ppm	Cr ppm	Mg %	Ba ppm	Ti %	B ppm	Al %	Na %	K %	W ppm	Hg ppm	Sc ppm	Tl ppm	S %	Ga ppm	Se ppm	Ag** gm/mt	Au** gm/mt
SI	.1	2.2	2.4	1	<.1	.5	.1	7	.03	<.5	<.1	<.5	<.1	2	<.1	<.1	<.1	<1	.07	<.001	<1	<1	<.01	2	<.001	<1	.01	.331	<.01	<.1	.01	<.1	<.1	<.05	<1	<.5	<2	<.01
SND385-4	1.7	76.3	203.1	43	81.8	1.6	8.6	452	2.93	117.1	3.8	2058.2	8.1	4	.4	.4	68.4	1	.06	.020	9	1.7	.02	35	.002	3	.29	.019	.24	.2	.01	.5	.1	2.46	1	<.5	72	2.84
SND385-30	3.6	89.1	625.6	349	61.2	3.3	10.9	368	2.16	30.4	16.3	11513.9	12.2	20	3.5	1.8	50.3	<1	.04	.008	8	2.7	.02	39	<.001	4	.26	.011	.21	.1	.12	.5	.1	1.73	1	<.5	60	14.99
SND385-31	6.5	72.0	799.0	431	70.5	3.6	10.9	619	3.37	39.8	8.9	14579.1	7.6	17	3.7	1.8	71.5	<1	.04	.008	6	2.9	.02	21	<.001	4	.23	.015	.18	.1	.09	.5	.1	2.94	1	<.5	71	18.27
SND385-32	1.4	2.6	8.5	37	.3	1.6	2.0	419	1.23	1.5	3.4	46.0	10.5	9	<.1	.1	.4	16	.19	.027	25	2.0	.19	79	.074	1	.37	.073	.25	.3	<.01	1.1	.1	<.05	3	<.5	<2	.06
SND385-33 PULP	18.0	57.2	432.9	39	4.5	917.3	25.1	368	2.21	61.4	.5	31139.3	3.4	19	.1	.5	4.6	31	.47	.034	13	1188.9	.61	150	.043	5	1.01	.047	.29	12.0	.01	2.4	.1	<.05	4	<.5	5	29.63
STANDARD DS5/R-2a/AU-1	11.9	144.5	25.4	138	.3	24.4	11.8	775	2.99	17.8	6.2	39.4	2.8	45	5.2	3.3	5.9	59	.72	.094	11	184.7	.68	135	.092	16	2.11	.033	.14	4.5	.17	3.4	1.1	<.05	7	5.0	156	3.44

GROUP 1DX - 0.50 GM SAMPLE LEACHED WITH 3 ML 2-2-2 HCL-HNO3-H2O AT 95 DEG. C FOR ONE HOUR, DILUTED TO 10 ML, ANALYSED BY ICP-MS.
(>) CONCENTRATION EXCEEDS UPPER LIMITS. SOME MINERALS MAY BE PARTIALLY ATTACKED. REFRACTORY AND GRAPHITIC SAMPLES CAN LIMIT AU SOLUBILITY.
AG** & AU** BY FIRE ASSAY FROM 1 A.T. SAMPLE.
- SAMPLE TYPE: CORE R150 60C

Data 1 FA ____ DATE RECEIVED: SEP 15 2004 DATE REPORT MAILED: Oct 7/04

BRITISH COLUMBIA CERTIFIED ASSAYER
C.L
Clarence Leong

ACME ANALYTICAL LABORATORIES LTD. 852 E. HASTINGS ST. VANCOUVER BC V6A 1R6 PHONE(604)253-3158 FAX(604)253-1716
(ISO 9002 Accredited Co.)

ASSAY CERTIFICATE

Almaden Minerals Ltd. PROJECT ELK04-8 File # A405562R

1103 - 750 W. Pender St., Vancouver BC V6C 2T8 Submitted by: W. Jakubowski

SAMPLE#	S.Wt gm	NAu mg	-Au gm/mt	TotAu gm/mt
SND385-4	1139	.76	3.71	4.38
SND385-30	353	<.01	16.68	16.68
SND385-31	99	.02	17.77	17.97
STANDARD AU-1	-	<.01	3.39	3.39

-AU : -150 AU BY FIRE ASSAY FROM 1 A.T. SAMPLE. DUPAU: AU DUPLICATED FROM -150 MESH. NAU - NATIVE GOLD, TOTAL SAMPLE FIRE ASSAY.
- SAMPLE TYPE: CORE REJ.

Data___ FA 4 DATE RECEIVED: DEC 17 2004 DATE REPORT MAILED: Jan. 18/2005

BRITISH COLUMBIA CERTIFIED ASSAYER
Jacky Wang

ACME ANALYTICAL LABORATORIES LTD. 852 E. HASTINGS ST. VANCOUVER BC V6A 1R6 PHONE(604)253-3158 FAX(604)253-1716
(ISO 9002 Accredited Co.)

ASSAY CERTIFICATE

Almaden Minerals Ltd. PROJECT ELK04-8 File # A405562R

1103 - 750 W. Pender St., Vancouver BC V6C 2T8 Submitted by: W. Jakubowski

SAMPLE#	S.Wt gm	NAg mg	-Ag gm/mt	TotAg gm/mt
SND385-4	1139	9.70	117	125
SND385-30	353	<.06	69	69
SND385-31	99	<.06	77	77
STANDARD GC-2a	<1	<.06	1023	1023

-AG : -150 AG BY FIRE ASSAY FROM 1 A.T. SAMPLE. DUPAG: AG DUPLICATED FROM -150 MESH. NAG - NATIVE SILVER, TOTAL SAMPLE FIRE ASSAY.
- SAMPLE TYPE: CORE REJ.

Data___ FA YH6 DATE RECEIVED: DEC 17 2004 DATE REPORT MAILED: Jan. 18/2005

BRITISH COLUMBIA CERTIFIED ASSAYER
Jacky Wang

ACME ANALYTICAL LABORATORIES LTD. 852 E. HASTINGS ST. VANCOUVER BC V6A 1R6 PHONE(604)253-3158 FAX(604)253-1716
(ISO 9002 Accredited Co.)

GEOCHEMICAL ANALYSIS CERTIFICATE

Almaden Minerals Ltd. PROJECT ELK04-8 File # A405563

1103 - 750 W. Pender St., Vancouver BC V6C 2T8 Submitted by: W. Jakubowski

SAMPLE#	Mo ppm	Cu ppm	Pb ppm	Zn ppm	Ag ppm	Ni ppm	Co ppm	Mn ppm	Fe %	As ppm	U ppm	Au ppb	Th ppm	Sr ppm	Cd ppm	Sb ppm	Bi ppm	V ppm	Ca %	P %	La ppm	Cr ppm	Mg %	Ba ppm	Ti %	B ppm	Al %	Na %	K %	W ppm	Hg ppm	Sc ppm	Tl ppm	S %	Ga ppm	Se ppm
SI	.1	2.9	.5	1	<.1	.1	<.1	11	.04	.5	<.1	<.5	<.1	3	<.1	<.1	<.1	<1	.12	<.001	<1	<1	<.01	4	<.001	<1	.01	.592	.01	<.1	<.01	<.1	<.1	<.05	<1	<.5
SND384-16	4.3	4956.3	1332.0	260	>100	1.2	9.7	65	7.37	379.0	3.1	60642.9	.5	3	7.9	26.5	38.0	<1	<.01	.001	1	1.1	<.01	11	<.001	<1	.03	.003	.03	.2	.41	<.1	.2	8.22	<1	<.5
STANDARD DS5	12.4	142.5	25.0	136	.3	24.3	11.8	783	3.03	18.5	6.3	44.0	2.6	48	5.4	3.6	6.0	59	.75	.089	12	181.2	.68	134	.101	18	1.98	.034	.14	4.8	.16	3.4	1.0	<.05	6	5.3

GROUP 1DX - 0.50 GM SAMPLE LEACHED WITH 3 ML 2-2-2 HCL-HNO3-H2O AT 95 DEG. C FOR ONE HOUR, DILUTED TO 10 ML, ANALYSED BY ICP-MS.
(>) CONCENTRATION EXCEEDS UPPER LIMITS. SOME MINERALS MAY BE PARTIALLY ATTACKED. REFRACTORY AND GRAPHITIC SAMPLES CAN LIMIT AU SOLUBILITY.
- SAMPLE TYPE: CORE M150 60C

Data 1 FA ____ DATE RECEIVED: SEP 15 2004 DATE REPORT MAILED: Oct 9/04

BRITISH COLUMBIA CERTIFIED ASSAYER
Clarence Leong

ACME ANALYTICAL LABORATORIES LTD. 852 E. HASTINGS ST. VANCOUVER BC V6A 1R6 PHONE(604)253-3158 FAX(604)253-1716
(ISO 9002 Accredited Co.)

ASSAY CERTIFICATE

Almaden Minerals Ltd. PROJECT ELK04-8 File # A405563

1103 - 750 W. Pender St., Vancouver BC V6C 2T8 Submitted by: W. Jakubowski

SAMPLE#	S.Wt gm	NAu mg	-Au gm/mt	TotAu gm/mt
SI	<1	<.01	<.01	<.01
SND384-16	1030	5.96	68.46	74.25
STANDARD AU-1	<1	.01	3.37	3.37

-AU : -150 AU BY FIRE ASSAY FROM 1 A.T. SAMPLE. DUPAU: AU DUPLICATED FROM -150 MESH. NAU - NATIVE GOLD, TOTAL SAMPLE FIRE ASSAY.
- SAMPLE TYPE: CORE M150 60C

Data 1 FA ____ DATE RECEIVED: SEP 15 2004 DATE REPORT MAILED: Oct 11/04

BRITISH COLUMBIA CERTIFIED ASSAYER
Clarence Leong

ACME ANALYTICAL LABORATORIES LTD. 852 E. HASTINGS ST. VANCOUVER BC V6A 1R6 PHONE(604)253-3158 FAX(604)253-1716
(ISO 9002 Accredited Co.)

ASSAY CERTIFICATE

Almaden Minerals Ltd. PROJECT ELK04-8 File # A405563

1103 - 750 W. Pender St., Vancouver BC V6C 2T8 Submitted by: W. Jakubowski

SAMPLE#	S.Wt gm	NAg mg	-Ag gm/mt	TotAg gm/mt
SI	<1	<.06	<.01	<2
SND384-16	1030	10.00	110.07	120
STANDARD R-2a	<1	<.06	156.14	156

-AG : -150 AG BY FIRE ASSAY FROM 1 A.T. SAMPLE. DUPAG: AG DUPLICATED FROM -150 MESH. NAG - NATIVE SILVER, TOTAL SAMPLE FIRE ASSAY.
- SAMPLE TYPE: CORE M150 60C

Data___ FA ____ **DATE RECEIVED:** SEP 15 2004 **DATE REPORT MAILED:** Oct 9/04

BRITISH COLUMBIA CERTIFIED ASSAYER
Clarence Leong

ACME ANALYTICAL LABORATORIES LTD. 852 E. HASTINGS ST. VANCOUVER BC V6A 1R6 PHONE(604)253-3158 FAX(604)253-1716
(ISO 9002 Accredited Co.)

GEOCHEMICAL ANALYSIS CERTIFICATE

Almaden Minerals Ltd. PROJECT ELK04-8 File # A405564 Page 1

1103 - 750 W. Pender St., Vancouver BC V6C 2T8 Submitted by: W. Jakubowski

SAMPLE#	Au* ppb
SI	<.5
SND383-1	97.8
SND383-2	26.0
SND383-3	35.8
SND383-4	43.9
SND383-5	24.7
SND383-6	73.0
SND383-7	1.7
SND383-8	370.4
SND383-9	10108.6
SND383-10	7.9
SND383-11	13.1
SND383-12	1.2
SND383-13 PULP	9293.4
SND383-14	18.0
SND383-15	24.8
SND383-16	5.9
SND383-17	36.7
SND383-18	23.0
SND383-19	21.0
RE SND383-19	16.7
RRE SND383-19	14.1
SND384-1	7.5
SND384-2	6.9
SND384-3	48.2
SND384-4	104.0
SND384-5	344.6
SND384-6	74.0
SND384-7	6.7
SND384-8	2.3
SND384-9	492.9
SND384-10	3.8
SND384-11	64.6
SND384-12	57.5
SND384-13	1.0
STANDARD AU-R	486.0

AU* IGNITED, ACID LEACHED, ANALYSED BY ICP-MS. (15 gm)
- SAMPLE TYPE: CORE R150 60C
Samples beginning 'RE' are Reruns and 'RRE' are Reject Reruns.

Data ✓ FA ____ DATE RECEIVED: SEP 15 2004 DATE REPORT MAILED: Oct. 2/04

BRITISH COLUMBIA CERTIFIED ASSAYER
Clarence Leong

SAMPLE#	Au* ppb
SND384-14 PULP	34791.4
SND384-15	33.5
SND384-17	224.8
SND384-18	1534.1
SND384-19	145.7
SND384-20	734.9
SND384-21	342.1
SND385-1	118.8
SND385-2	299.4
SND385-3	429.6
SND385-5	8878.6
SND385-6	29.2
SND385-7	61.5
SND385-8	109.4
SND385-9	485.6
SND385-10	5.0
SND385-11	4.4
SND385-12	.9
SND385-13 PULP	9607.5
SND385-14	133.3
SND385-15	38.6
SND385-16	4849.7
RE SND385-16	5425.8
RRE SND385-16	3722.4
SND385-17	20.8
SND385-18	69.9
SND385-19	61.1
SND385-20	163.1
SND385-21	130.6
SND385-22	134.4
SND385-23	332.8
SND385-24	64.2
SND385-25	599.9
SND385-26	36.5
STANDARD AU-R	470.1

Sample type: CORE R150 60C. Samples beginning 'RE' are Reruns and 'RRE' are Reject Reruns.

Data f FA ____

SAMPLE#	Au* ppb
SND385-27	54.4
SND385-28	114.4
SND385-29	7.0
SND385-34	28.6
SND385-35	25.5
SND385-36	10.8
SND385-37	18.8
SND385-38	101.8
SND385-39	6.8
SND385-40	197.6
SND385-41	14.5
SND385-42	146.3
RE SND385-42	257.1
RRE SND385-42	121.8
SND385-43	14.9
SND385-44	24.9
SND385-45	48.2
STANDARD AU-R	483.0

Sample type: CORE R150 60C. Samples beginning 'RE' are Reruns and 'RRE' are Reject Reruns.

Data___ FA ___

ACME ANALYTICAL LABORATORIES LTD. 852 E. HASTINGS ST. VANCOUVER BC V6A 1R6 PHONE(604)253-3158 FAX(604)253-1716
(ISO 9002 Accredited Co.)

ASSAY CERTIFICATE

Almaden Minerals Ltd. PROJECT ELK04-8 File # A405564R
1103 - 750 W. Pender St., Vancouver BC V6C 2T8 Submitted by: W. Jakubowski

SAMPLE#	Au** gm/mt
SND383-9	10.19
SND385-5	4.01
STANDARD AU-1	3.43

GROUP 6 - PRECIOUS METALS BY FIRE ASSAY FROM 1 A.T. SAMPLE, ANALYSIS BY ICP-ES.
- SAMPLE TYPE: CORE PULP

Data 1 FA ____ DATE RECEIVED: OCT 6 2004 DATE REPORT MAILED: Oct 12/04

BRITISH COLUMBIA CERTIFIED ASSAYER
Clarence Leong

ACME ANALYTICAL LABORATORIES LTD. 852 E. HASTINGS ST. VANCOUVER BC V6A 1R6 PHONE(604)253-3158 FAX(604)253-1716
(ISO 9002 Accredited Co.)

GEOCHEMICAL ANALYSIS CERTIFICATE

Almaden Minerals Ltd. PROJECT ELK-04-9 File # A406008

1103 - 750 W. Pender St., Vancouver BC V6C 2T8

SAMPLE#	Mo ppm	Cu ppm	Pb ppm	Zn ppm	Ag ppm	Ni ppm	Co ppm	Mn ppm	Fe %	As ppm	U ppm	Au ppb	Th ppm	Sr ppm	Cd ppm	Sb ppm	Bi ppm	V ppm	Ca %	P %	La ppm	Cr ppm	Mg %	Ba ppm	Ti %	B ppm	Al %	Na %	K %	W ppm	Hg ppm	Sc ppm	Tl ppm	S %	Ga ppm	Se ppm	Ag** gm/mt	Au** gm/mt
SI	.1	1.7	.7	1	<.1	.4	.1	4	.07	<.5	<.1	2.3	<.1	2	<.1	<.1	<.1	<1	.08	.001	<1	1.0	.01	3	.001	<1	.01	.419	.01	<.1	.01	.1	<.1	.06	<1	<.5	<2	.01
SND386-2	1.7	105.3	62.5	99	.9	2.2	1.1	412	2.30	381.8	3.3	198.8	8.2	3	2.0	.2	.3	1	.05	.019	10	5.8	.03	44	.002	1	.48	.015	.43	.2	<.01	.5	.1	1.53	2	<.5	<2	.32
SND386-23	2.5	420.4	499.7	518	1.9	1.2	3.6	1105	2.04	45.5	8.0	340.3	8.4	13	4.6	18.9	1.2	1	.07	.012	12	4.2	.03	75	<.001	2	.27	.012	.22	.1	.09	.9	.1	.90	1	<.5	4	.59
SND386-26	2.4	188.6	469.5	342	5.8	1.7	1.6	423	1.44	27.7	7.3	1774.2	11.0	9	6.6	1.3	2.6	<1	.06	.020	14	3.2	.03	54	.001	3	.37	.029	.31	.1	.04	.4	.1	.69	1	<.5	9	2.61
SND387-6	9.4	1224.7	584.0	3804	15.1	1.3	1.6	165	1.18	126.9	16.3	4878.9	5.8	10	76.4	467.0	8.0	1	.04	.013	6	5.3	.02	63	.001	2	.32	.006	.27	.1	1.27	.3	.1	.99	1	<.5	15	5.67
SND387-8	2.3	173.0	51.4	80	1.0	2.1	1.7	729	2.50	51.1	6.1	71.5	8.9	8	1.1	5.7	.7	2	.07	.020	13	4.9	.04	40	.001	3	.44	.015	.34	.2	.05	.6	.1	1.48	1	<.5	2	.13
SND387-22(PULP)	19.0	52.5	413.0	32	4.6	1058.0	26.9	372	2.12	57.4	.5	33037.6	3.5	18	.2	.3	4.5	29	.46	.037	13	1245.7	.58	139	.043	4	.97	.047	.28	13.4	.01	2.3	.1	<.05	3	<.5	6	33.68
SND387-27	2.8	192.1	171.8	280	3.6	1.3	3.2	291	1.88	26.5	3.6	3037.1	6.7	2	1.5	.6	4.6	<1	.04	.013	6	2.7	.03	24	<.001	1	.22	.006	.22	.1	.03	.3	.1	1.37	1	<.5	6	6.90
SND387-30	2.6	129.8	323.8	529	6.5	3.2	6.0	102	2.14	29.4	10.0	672.6	7.0	10	9.1	.6	88.9	1	.05	.009	11	5.4	.02	52	.001	2	.40	.009	.29	.3	.07	.3	.1	1.56	1	<.5	9	.97
RE SND387-30	3.0	127.6	306.5	512	6.1	3.9	6.0	100	2.20	29.5	10.5	718.2	7.0	10	10.4	.6	91.3	<1	.05	.011	12	6.2	.03	54	<.001	3	.37	.010	.29	.5	.08	.4	.1	1.61	1	<.5	9	1.14
RRE SND387-30	3.6	111.7	274.2	285	6.5	1.8	5.7	85	1.74	28.6	9.9	1044.7	6.8	9	3.2	.6	86.1	<1	.05	.010	10	7.2	.02	45	<.001	3	.27	.007	.23	.2	.03	.3	.1	1.56	1	<.5	9	1.77
SND388-16	3.2	301.4	556.0	89	23.2	2.0	7.7	646	2.83	196.3	6.3	12474.7	9.1	8	2.3	2.6	23.4	2	.05	.014	15	5.7	.03	41	.002	1	.34	.019	.25	.3	.22	.5	.2	2.13	1	<.5	26	16.02
SND388-20	3.4	86.1	83.8	93	21.4	2.1	2.6	460	2.19	33.4	6.0	13558.6	8.4	5	.5	4.4	9.6	1	.04	.013	10	4.4	.02	34	.001	2	.41	.033	.29	.1	.05	.4	.1	1.07	1	<.5	20	8.76
SND389-4	6.1	767.7	1128.4	68	56.7	4.4	19.0	547	11.64	187.1	6.1	9841.3	6.1	4	6.1	5.7	61.0	<1	.04	.012	3	2.1	.02	13	<.001	1	.21	.004	.19	.1	.04	.2	3.5	>10	1	.6	65	13.67
SND389-11	2.0	177.4	135.7	98	16.3	2.0	5.8	528	3.99	368.3	4.1	347.1	9.6	6	1.0	.4	43.4	3	.08	.020	13	3.8	.04	32	.005	1	.31	.036	.22	.1	<.01	.7	.4	3.40	1	<.5	11	.59
SND389-16	2.9	77.9	74.7	69	.7	.7	1.0	466	1.30	25.9	3.3	96.1	9.9	5	.7	.8	1.1	1	.06	.016	11	3.6	.03	34	.001	1	.25	.023	.22	.2	.01	.4	.1	.71	1	<.5	<2	.35
SND391-13	1.7	565.6	61.5	35	18.9	1.9	3.1	209	4.10	27.5	2.6	21822.8	7.6	2	.9	.1	40.8	<1	.05	.019	6	2.2	.02	24	.001	2	.39	.010	.36	.2	.05	.3	.1	4.09	1	<.5	32	39.74
STANDARD DS5/R-2a/AU-1	12.3	143.1	25.9	141	.3	25.2	12.0	781	2.99	17.9	6.2	43.0	2.6	44	5.6	3.4	6.2	61	.73	.191	12	179.1	.68	136	.097	17	2.08	.034	.15	4.9	.21	3.4	1.1	<.05	6	4.9	158	3.42

GROUP 1DX - 0.50 GM SAMPLE LEACHED WITH 3 ML 2-2-2 HCL-HNO3-H2O AT 95 DEG. C FOR ONE HOUR, DILUTED TO 10 ML, ANALYSED BY ICP-MS.
(>) CONCENTRATION EXCEEDS UPPER LIMITS. SOME MINERALS MAY BE PARTIALLY ATTACKED. REFRACTORY AND GRAPHITIC SAMPLES CAN LIMIT AU SOLUBILITY.
AG** & AU** BY FIRE ASSAY FROM 1 A.T. SAMPLE.
- SAMPLE TYPE: CORE R150 60C Samples beginning 'RE' are Reruns and 'RRE' are Reject Reruns.

Data f FA ____ DATE RECEIVED: SEP 28 2004 DATE REPORT MAILED: Oct 25/04

BRITISH COLUMBIA CERTIFIED ASSAYER
Clarence Leong

ACME ANALYTICAL LABORATORIES LTD. 852 E. HASTINGS ST. VANCOUVER BC V6A 1R6 PHONE(604)253-3158 FAX(604)253-1716
(ISO 9002 Accredited Co.)

GEOCHEMICAL ANALYSIS CERTIFICATE

Almaden Minerals Ltd. PROJECT ELK-04-9 File # A406008

1103 - 750 W. Pender St., Vancouver BC V6C 2T8

SAMPLE#	Mo ppm	Cu ppm	Pb ppm	Zn ppm	Ag ppm	Ni ppm	Co ppm	Mn ppm	Fe %	As ppm	U ppm	Au ppb	Th ppm	Sr ppm	Cd ppm	Sb ppm	Bi ppm	V ppm	Ca %	P %	La ppm	Cr ppm	Mg %	Ba ppm	Ti %	B ppm	Al %	Na %	K %	W ppm	Hg ppm	Sc ppm	Ti ppm	S %	Ga ppm	Se ppm	Ag** gm/mt	Au** gm/mt
SI	.1	1.7	.7	1	<.1	.4	.1	4	.07	<.5	<.1	2.3	<.1	2	<.1	<.1	<.1	<1	.08	.001	<1	1.0	.01	3	.001	<1	.01	.419	.01	<.1	.01	.1	<.1	.06	<1	<.5	<2	.01
SND386-2	1.7	105.3	62.5	99	.9	2.2	1.1	412	2.30	381.8	3.3	198.8	8.2	3	2.0	.2	.3	1	.05	.019	10	5.8	.03	44	.002	1	.48	.015	.43	.2	<.01	.5	.1	1.53	2	<.5	<2	.32
SND386-23	2.5	420.4	499.7	518	1.9	1.2	3.6	1105	2.04	45.5	8.0	340.3	8.4	13	4.6	18.9	1.2	1	.07	.012	12	4.2	.03	75	<.001	2	.27	.012	.22	.1	.09	.9	.1	.90	1	<.5	4	.59
SND386-26	2.4	188.6	469.5	342	5.8	1.7	1.6	423	1.44	27.7	7.3	1774.2	11.0	9	6.6	1.3	2.6	<1	.06	.020	14	3.2	.03	54	.001	3	.37	.029	.31	.1	.04	.4	.1	.69	1	<.5	9	2.61
SND387-6	9.4	1224.7	584.0	3804	15.1	1.3	1.6	165	1.18	126.9	16.3	4878.9	5.8	10	76.4	467.0	8.0	1	.04	.013	6	5.3	.02	63	.001	2	.32	.006	.27	.1	1.27	.3	.1	.99	1	<.5	15	5.67
SND387-8	2.3	173.0	51.4	80	1.0	2.1	1.7	729	2.50	51.1	6.1	71.5	8.9	8	1.1	5.7	.7	2	.07	.020	13	4.9	.04	40	.001	3	.44	.015	.34	.2	.05	.6	.1	1.48	1	<.5	2	.13
SND387-22(PULP)	19.0	52.5	413.0	32	4.6	1058.0	26.9	372	2.12	57.4	.5	33037.6	3.5	18	.2	.3	4.5	29	.46	.037	13	1245.7	.58	139	.043	4	.97	.047	.28	13.4	.01	2.3	.1	<.05	3	<.5	6	33.68
SND387-27	2.8	192.1	171.8	280	3.6	1.3	3.2	291	1.88	26.5	3.6	3037.1	6.7	2	1.5	.6	4.6	<1	.04	.013	6	2.7	.03	24	<.001	1	.22	.006	.22	.1	.03	.3	.1	1.37	1	<.5	6	6.90
SND387-30	2.6	129.8	323.8	529	6.5	3.2	6.0	102	2.14	29.4	10.0	672.6	7.0	10	9.1	.6	88.9	1	.05	.009	11	5.4	.02	52	.001	2	.40	.009	.29	.3	.07	.3	.1	1.56	1	<.5	9	.97
RE SND387-30	3.0	127.6	306.5	512	6.1	3.9	6.0	100	2.20	29.5	10.5	718.2	7.0	10	10.4	.6	91.3	<1	.05	.011	12	6.2	.03	54	<.001	3	.37	.010	.29	.5	.08	.4	.1	1.61	1	<.5	9	1.14
RRE SND387-30	3.6	111.7	274.2	285	6.5	1.8	5.7	85	1.74	28.6	9.9	1044.7	6.8	9	3.2	.6	86.1	<1	.05	.010	10	7.2	.02	45	<.001	3	.27	.007	.23	.2	.03	.3	.1	1.56	1	<.5	9	1.77
SND388-16	3.2	301.4	556.0	89	23.2	2.0	7.7	646	2.83	196.3	6.3	12474.7	9.1	8	2.3	2.6	23.4	2	.05	.014	15	5.7	.03	41	.002	1	.34	.019	.25	.3	.22	.5	.2	2.13	1	<.5	26	16.02
SND388-20	3.4	86.1	83.8	93	21.4	2.1	2.6	460	2.19	33.4	6.0	13558.6	8.4	5	.5	4.4	9.6	1	.04	.013	10	4.4	.02	34	.001	2	.41	.033	.29	.1	.05	.4	.1	1.07	1	<.5	20	8.76
SND389-4	6.1	767.7	1128.4	68	56.7	4.4	19.0	547	11.64	187.1	6.1	9841.3	6.1	4	6.1	5.7	61.0	<1	.04	.012	3	2.1	.02	13	<.001	1	.21	.004	.19	.1	.04	.2	3.5	>10	1	.6	65	13.67
SND389-11	2.0	177.4	135.7	98	16.3	2.0	5.8	528	3.99	368.3	4.1	347.1	9.6	6	1.0	.4	43.4	3	.08	.020	13	3.8	.04	32	.005	1	.31	.036	.22	.1	<.01	.7	.4	3.40	1	<.5	11	.59
SND391-16	1.7	565.6	61.5	35	18.9	1.9	3.1	209	4.10	27.5	2.6	21822.8	7.6	2	.9	.1	40.8	<1	.05	.019	6	2.2	.02	24	.001	2	.39	.010	.36	.2	.05	.3	.1	4.09	1	<.5	32	39.74
SND389-13	2.9	77.9	74.7	69	.7	.7	1.0	466	1.30	25.9	3.3	96.1	9.9	5	.7	.8	1.1	1	.06	.016	11	3.6	.03	34	.001	1	.25	.023	.22	.2	.01	.4	.1	.71	1	<.5	<2	.35
STANDARD DS5/R-2a/AU-1	12.3	143.1	25.9	141	.3	25.2	12.0	781	2.99	17.9	6.2	43.0	2.6	44	5.6	3.4	6.2	61	.73	.101	12	179.1	.68	136	.097	17	2.08	.034	.15	4.9	.21	3.4	1.1	<.05	6	4.9	158	3.42

GROUP 1DX - 0.50 GM SAMPLE LEACHED WITH 3 ML 2-2-2 HCL-HNO3-H2O AT 95 DEG. C FOR ONE HOUR, DILUTED TO 10 ML, ANALYSED BY ICP-MS.
(>) CONCENTRATION EXCEEDS UPPER LIMITS. SOME MINERALS MAY BE PARTIALLY ATTACKED. REFRACTORY AND GRAPHITIC SAMPLES CAN LIMIT AU SOLUBILITY.
AG** & AU** BY FIRE ASSAY FROM 1 A.T. SAMPLE.
- SAMPLE TYPE: CORE R150 60C Samples beginning 'RE' are Reruns and 'RRE' are Reject Reruns.

Data 1 FA ____ DATE RECEIVED: SEP 28 2004 DATE REPORT MAILED: Jan 18/05

REVISED COPY Correction for SND391-16 & SND389-13

BRITISH COLUMBIA CERTIFIED ASSAYER
Clarence Leong

ACME ANALYTICAL LABORATORIES LTD. 852 E. HASTINGS ST. VANCOUVER BC V6A 1R6 PHONE(604)253-3158 FAX(604)253-1716
(ISO 9002 Accredited Co.)

ASSAY CERTIFICATE

Almaden Minerals Ltd. PROJECT ELK-04-9 File # A406008R

1103 - 750 W. Pender St., Vancouver BC V6C 2T8

SAMPLE#	S.Wt gm	NAu mg	-Au gm/mt	TotAu gm/mt
SND387-30	395	.02	1.21	1.26
SND389-4	998	1.01	10.65	11.66
SND389-11	1059	.07	.41	.48
SND391-13	773	<.01	.16	.16
STANDARD AU-1	-	.09	3.42	3.42

-AU : -150 AU BY FIRE ASSAY FROM 1 A.T. SAMPLE. DUPAU: AU DUPLICATED FROM -150 MESH. NAU - NATIVE GOLD, TOTAL SAMPLE FIRE ASSAY.
- SAMPLE TYPE: CORE REJ.

Data___ FA

DATE RECEIVED: DEC 17 2004 DATE REPORT MAILED: Jan. 18/05

BRITISH COLUMBIA CERTIFIED ASSAYER
Clarence Leong

ACME A TICAL LABORATORIES LTD. 852 E. HASTINGS ST. COUVER BC V6A 1R6 PHONE(604)253-3158 FAX(60 53-1716
(IS 9002 Accredited Co.)

ASSAY CERTIFICATE

Almaden Minerals Ltd. PROJECT ELK-04-9 File # A406008R
1103 - 750 W. Pender St., Vancouver BC V6C 2T8

SAMPLE#	S.Wt gm	NAg mg	-Ag gm/mt	TotAg gm/mt
SND387-30	395	.33	8	8
SND389-4	998	<.06	56	56
SND389-11	1059	2.19	9	11
SND391-13	773	<.06	<2	<2
STANDARD GC-2a	<1	<.06	1049	1049

-AG : -150 AG BY FIRE ASSAY FROM 1 A.T. SAMPLE. DUPAG: AG DUPLICATED FROM -150 MESH. NAG - NATIVE SILVER, TOTAL SAMPLE FIRE ASSAY.
- SAMPLE TYPE: CORE REJ.

Data___ FA **DATE RECEIVED:** DEC 17 2004 **DATE REPORT MAILED:** Jan 18/05

BRITISH COLUMBIA CERTIFIED ASSAYER
C.L
Clarence Leong

ACME ANALYTICAL LABORATORIES LTD. 852 E. HASTINGS ST. VANCOUVER BC V6A 1R6 PHONE(604)253-3158 FAX(604)253-1716
(ISO 9002 Accredited Co.)

ASSAY CERTIFICATE

Almaden Minerals Ltd. PROJECT ELK-04-9 File # A406008R2

1103 - 750 W. Pender St., Vancouver BC V6C 2T8

SAMPLE#	S.Wt gm	NAu mg	-Au gm/mt	TotAu gm/mt
SND389-16	937	13.99	14.30	29.23
STANDARD AU-1	-	.09	3.32	3.32

-AU : -150 AU BY FIRE ASSAY FROM 1 A.T. SAMPLE. DUPAU: AU DUPLICATED FROM -150 MESH. NAU - NATIVE GOLD, TOTAL SAMPLE FIRE ASSAY.
- SAMPLE TYPE: CORE REJ.

Data___ FA ___ DATE RECEIVED: DEC 17 2004 DATE REPORT MAILED: Jan 18/05

BRITISH COLUMBIA CERTIFIED ASSAYER
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Clarence Leong

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(ISO 9002 Accredited Co.)

ASSAY CERTIFICATE

Almaden Minerals Ltd. PROJECT ELK-04-9 File # A406008R2
1103 - 750 W. Pender St., Vancouver BC V6C 2T8

SAMPLE#	S.Wt gm	NAg mg	-Ag gm/mt	TotAg gm/mt
SND389-16	937	3.83	13	17
STANDARD GC-2a	-	<.06	1061	1061

-AG : -150 AG BY FIRE ASSAY FROM 1 A.T. SAMPLE. DUPAG: AG DUPLICATED FROM -150 MESH. NAG - NATIVE SILVER, TOTAL SAMPLE FIRE ASSAY.
- SAMPLE TYPE: CORE REJ.

Data___ FA DATE RECEIVED: DEC 17 2004 DATE REPORT MAILED: Jan. 18/05

BRITISH COLUMBIA CERTIFIED ASSAYER
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(ISO 9002 Accredited Co.)

GEOCHEMICAL ANALYSIS CERTIFICATE

Almaden Minerals Ltd. PROJECT ELK04-9 File # A406009

1103 - 750 W. Pender St., Vancouver BC V6C 2T8

SAMPLE#	Mo ppm	Cu ppm	Pb ppm	Zn ppm	Ag ppm	Ni ppm	Co ppm	Mn ppm	Fe %	As ppm	U ppm	Au ppb	Th ppm	Sr ppm	Cd ppm	Sb ppm	Bi ppm	V ppm	Ca %	P %	La ppm	Cr ppm	Mg %	Ba ppm	Ti %	B ppm	Al %	Na %	K %	W ppm	Hg ppm	Sc ppm	Tl ppm	S %	Ga ppm	Se ppm
SI	<.1	.9	.1	1	<.1	.5	.1	10	.04	<.5	<.1	<.5	<.1	3	<.1	<.1	<.1	1	.11	<.001	<1	<1	.01	3	.003	<1	.01	.484	<.01	<.1	<.01	.1	<.1	<.05	<1	<.5
SND386-25	1.9	470.5	313.2	79	27.0	1.2	6.6	215	3.40	44.5	3.8	23845.4	5.2	2	1.6	.8	36.3	1	.02	.006	4	2.0	.02	23	<.001	2	.15	.004	.17	.6	.36	.2	.1	3.62	<1	<.5
SND388-18	8.0	194.6	905.5	431	18.2	1.8	4.5	48	1.97	52.7	10.2	2900.7	3.3	13	7.5	101.9	10.4	1	.02	.003	5	2.3	.01	45	<.001	<1	.11	.003	.09	.1	.17	.2	.1	1.90	<1	<.5
SND389-13	1.6	57.2	161.7	73	16.2	2.4	3.9	92	1.34	25.7	14.0	2860.1	7.3	6	.7	5.8	52.0	1	.04	.009	8	1.2	.01	60	<.001	1	.16	.005	.12	.1	.05	.3	<.1	1.13	<1	<.5
SND390-12	4.4	600.9	104.1	144	87.4	1.4	6.4	397	4.56	146.5	9.4	42787.4	7.1	6	3.3	257.7	16.7	1	.04	.014	7	1.4	.02	21	.001	1	.17	.006	.12	.1	.61	.4	.1	4.41	<1	<.5
SND391-5	1.0	7926.1	650.2	344	>100	1.0	3.3	284	9.31	722.4	1.8	78969.2	4.2	1	14.0	3.8	113.1	<1	.02	.010	3	1.0	.01	11	<.001	<1	.12	.002	.12	.1	.13	.1	.2	8.78	<1	<.5
STANDARD DS5	11.5	141.0	25.6	140	.3	25.1	11.4	736	2.95	17.5	5.9	42.0	2.6	43	5.2	3.4	5.5	58	.73	.096	12	181.7	.68	135	.098	16	1.96	.035	.13	4.7	.16	3.4	1.0	<.05	6	4.8

GROUP 1DX - 0.50 GM SAMPLE LEACHED WITH 3 ML 2-2-2 HCL-HNO3-H2O AT 95 DEG. C FOR ONE HOUR, DILUTED TO 10 ML, ANALYSED BY ICP-MS.
(>) CONCENTRATION EXCEEDS UPPER LIMITS. SOME MINERALS MAY BE PARTIALLY ATTACKED. REFRACTORY AND GRAPHITIC SAMPLES CAN LIMIT AU SOLUBILITY.
- SAMPLE TYPE: CORE R150 60C

Data___ FA _____ DATE RECEIVED: SEP 28 2004 DATE REPORT MAILED: Oct. 30/04

BRITISH COLUMBIA CERTIFIED ASSAYER
Clarence Leong

ACME ANALYTICAL LABORATORIES LTD. 852 E. HASTINGS ST. VANCOUVER BC V6A 1R6 PHONE(604)253-3158 FAX(604)253-1716
(ISO 9002 Accredited Co.)

ASSAY CERTIFICATE

Almaden Minerals Ltd. PROJECT ELK04-9 File # A406009

1103 - 750 W. Pender St., Vancouver BC V6C 2T8

SAMPLE#	S.Wt gm	NAg mg	-Ag gm/mt	TotAg gm/mt
SI	<1	<.06	<2	<2
SND386-25	1032	1.07	28	29
SND388-18	1090	.66	20	21
SND389-13	1027	1.25	21	22
SND390-12	920	5.95	102	109
SND391-5	688	15.28	174	196
STANDARD R-2a	<1	<.06	159	259

-AG : -150 AG BY FIRE ASSAY FROM 1 A.T. SAMPLE. DUPAG: AG DUPLICATED FROM -150 MESH. NAG - NATIVE SILVER, TOTAL SAMPLE FIRE ASSAY.
- SAMPLE TYPE: CORE R150 60C

Data___ FA 4 DATE RECEIVED: SEP 28 2004 DATE REPORT MAILED: Oct 30/04

BRITISH COLUMBIA CERTIFIED ASSAYER
Clarence Leong

ACME ANALYTICAL LABORATORIES LTD. 852 E. HASTINGS ST. VANCOUVER BC V6A 1R6 PHONE(604)253-3158 FAX(604)253-1716
(ISO 9002 Accredited Co.)

ASSAY CERTIFICATE

Almaden Minerals Ltd. PROJECT ELK04-9 File # A406009

1103 - 750 W. Pender St., Vancouver BC V6C 2T8

SAMPLE#	S.Wt gm	NAu mg	-Au gm/mt	TotAu gm/mt
SI	<1	<.01	.01	<.01
SND386-25	1032	1.35	23.60	24.91
SND388-18	1090	.05	3.28	3.33
SND389-13	1027	.39	3.79	4.17
SND390-12	920	12.71	38.35	52.17
SND391-5	688	29.74	79.45	122.68
STANDARD AU-1	<1	.09	3.32	3.32

-AU : -150 AU BY FIRE ASSAY FROM 1 A.T. SAMPLE. DUPAU: AU DUPLICATED FROM -150 MESH. NAU - NATIVE GOLD, TOTAL SAMPLE FIRE ASSAY.
- SAMPLE TYPE: CORE R150 60C

Data___ FA **DATE RECEIVED:** SEP 28 2004 **DATE REPORT MAILED:** Oct 30/04

BRITISH COLUMBIA CERTIFIED ASSAYER
C.L
Clarence Leong

ACME ANALYTICAL LABORATORIES LTD. 852 E. HASTINGS ST. VANCOUVER BC V6A 1R6 PHONE(604)253-3158 FAX(604)253-1716
(ISO 9002 Accredited Co.)

GEOCHEMICAL ANALYSIS CERTIFICATE

Almaden Minerals Ltd. PROJECT ELK04-9 File # A406010 Page 1

1103 - 750 W. Pender St., Vancouver BC V6C 2T8

SAMPLE#	Au* ppb
SI	<.5
SND386-1	62.7
SND386-3	955.7
SND386-4	587.2
SND386-5	27.8
SND386-6	17.6
SND386-7	<.5
SND386-8(PULP)	10397.0
SND386-9	5549.0
SND386-10	75.0
SND386-11	639.0
SND386-12	217.9
SND386-13	435.9
SND386-14	86.1
SND386-15	18.1
RE SND386-15	15.6
RRE SND386-15	13.6
SND386-16	21.9
SND386-17	150.9
SND386-18	51.7
SND386-19	245.4
SND386-20	168.3
SND386-21	431.3
SND386-22	115.5
SND386-24	16.0
SND386-27	27.8
SND386-28	34.6
SND386-29	84.0
SND386-30	24.0
SND386-31	278.6
SND386-32	12.0
SND386-33	85.3
SND386-34	17.0
SND387-1	281.1
SND387-2	23.0
STANDARD AUR	490.6

GROUP 3A - 30 GM SAMPLE LEACHED WITH 180 ML 2-2-2 HCL-HNO3-H2O AT 95 DEG. C FOR ONE HOUR, DILUTED TO 600 ML, ANALYSED BY ICP-MS.
UPPER LIMITS - AU* = 100 PPM.
- SAMPLE TYPE: CORE R150 60C Samples beginning 'RE' are Reruns and 'RRE' are Reject Reruns.

Data k FA _____ DATE RECEIVED: SEP 28 2004 DATE REPORT MAILED: Oct 22/04

BRITISH COLUMBIA CERTIFIED ASSAYER
C.L
Clarence Leong

SAMPLE#	Au* ppb
SND387-3	6.1
SND387-4	54.1
SND387-5	4.3
SND387-7	9.5
SND387-9	6.0
SND387-10	252.0
SND387-11	1093.3
SND387-12	12734.5
SND387-13	110.9
SND387-14	63.8
SND387-15	12.3
RE SND387-15	11.3
RRE SND387-15	11.9
SND387-16	18.5
SND387-17	44.9
SND387-18	430.3
SND387-19	142.4
SND387-20	33.5
SND387-21	.8
SND387-23	32.2
SND387-24	318.5
SND387-25	132.8
SND387-26	248.8
SND387-28	244.3
SND387-29	4.5
SND387-31	11.0
SND387-32	52.4
SND387-33	5191.5
SND387-34	9.6
SND388-1	133.9
SND388-2	91.8
SND388-3	4.0
SND388-4(PULP)	9161.2
SND388-5	76.0
STANDARD AUR	492.1

Sample type: CORE R150 60C. Samples beginning 'RE' are Reruns and 'RRE' are Reject Reruns.

Data A FA ___

SAMPLE#	Au* ppb
SND388-6	717.0
SND388-7	30.8
SND388-8	174.6
SND388-9	12298.6
SND388-10	130.5
SND388-11	2892.1
SND388-12	1051.2
SND388-13	80.2
SND388-14	17.6
SND388-15	10.3
SND388-17	34.9
SND388-19	69.2
SND388-21	63.4
SND388-22	24.0
SND388-23	.8
SND388-24(PULP)	36102.1
SND388-25	6.5
SND389-1	75.4
SND389-2	112.6
SND389-3	5.8
RE SND389-3	8.9
RRE SND389-3	6.9
SND389-5	3.2
SND389-6	5.0
SND389-7	2.3
SND389-8(PULP)	10177.9
SND389-9	92.0
SND389-10	967.6
SND389-12	2.5
SND389-14	6.0
SND389-15	1.0
SND390-1	378.2
SND390-2	6.0
SND390-3	7.0
STANDARD AUR	490.4

Sample type: CORE R150 60C. Samples beginning 'RE' are Reruns and 'RRE' are Reject Reruns.

Data FA

SAMPLE#	Au* ppb
SND390-4	736.4
SND390-5	4237.4
SND390-6	20.0
SND390-7	2776.3
SND390-8	4130.0
SND390-9	9.0
SND390-10(PULP)	34558.3
SND390-11	116.4
SND390-13	135.6
SND390-14	60.0
SND390-15	1756.6
SND390-16	481.8
SND390-17	230.7
RE SND390-17	191.7
RRE SND390-17	227.5
SND390-18	12316.3
SND390-19	80.6
SND390-20	189.0
SND391-1	24.0
SND391-2	18640.3
SND391-3	21.0
SND391-4	474.5
SND391-6	70.0
SND391-7	226.7
SND391-8	163.5
SND391-9	3.0
SND391-10(PULP)	9930.7
SND391-11	50.0
SND391-12	635.4
SND391-14	137.6
STANDARD AUR	507.5

Sample type: CORE R150 60C. Samples beginning 'RE' are Reruns and 'RRE' are Reject Reruns.

Data FA

ACME ANALYTICAL LABORATORIES LTD. 852 E. HASTINGS ST. VANCOUVER BC V6A 1R6 PHONE(604)253-3158 FAX(604)253-1716
(ISO 9002 Accredited Co.)

GEOCHEMICAL ANALYSIS CERTIFICATE

Almaden Minerals Ltd. PROJECT ELK04-9 File # A406011

1103 - 750 W. Pender St., Vancouver BC V6C 2T8

SAMPLE#	Au* ppb
ELK-04-S1	16.8
SE6-S-1	72.4
SE6-S-2	36.7
SE6-S-3	853.2
SE6-S-4	9.8
SE6-S-5	8.2
RE SE6-S-5	11.6
SE6-S-6	44.3
SE6-S-7	30.4
SE6-S-8	14.7
SE6-S-9	29.4
STANDARD DS5	45.3

AU* BY ACID LEACHED, ANALYZED BY ICP-MS. (30 gm)
- SAMPLE TYPE: SOIL SS80 60C
Samples beginning 'RE' are Reruns and 'RRE' are Reject Reruns.

Data f FA ____ DATE RECEIVED: SEP 28 2004 DATE REPORT MAILED: Oct. 20/04

BRITISH COLUMBIA CERTIFIED ASSAYER
Clarence Leong

ACME ANALYTICAL LABORATORIES LTD. 852 E. HASTINGS ST. VANCOUVER BC V6A 1R6 PHONE(604)253-3158 FAX(604)253-1716
(ISO 9002 Accredited Co.)

ASSAY CERTIFICATE

Almaden Minerals Ltd. PROJECT ELK04-11 File # A406554R
1103 - 750 W. Pender St., Vancouver BC V6C 2T8

SAMPLE#	S.Wt gm	NAu mg	-Au gm/mt	TotAu gm/mt
SND397-6	920	<.01	1.62	1.62
STANDARD AU-1	-	.09	3.32	3.32

-AU : -150 AU BY FIRE ASSAY FROM 1 A.T. SAMPLE. DUPAU: AU DUPLICATED FROM -150 MESH. NAU - NATIVE GOLD, TOTAL SAMPLE FIRE ASSAY.
- SAMPLE TYPE: CORE REJ.

Data___ FA DATE RECEIVED: DEC 17 2004 DATE REPORT MAILED: Jan. 14./2005

BRITISH COLUMBIA CERTIFIED ASSAYER
Jacky Wang

ACME ANALYTICAL LABORATORIES LTD. 852 E. HASTINGS ST. VANCOUVER BC V6A 1R6 PHONE(604)253-3158 FAX(604)253-1716
(ISO 9002 Accredited Co.)

ASSAY CERTIFICATE

Almaden Minerals Ltd. PROJECT ELK04-11 File # A406554R
1103 - 750 W. Pender St., Vancouver BC V6C 2T8

SAMPLE#	S.Wt gm	NAg mg	-Ag gm/mt	TotAg gm/mt
SND397-6	920	2.34	36	39
STANDARD GC-2a		- 29.20	1032	1032

-AG : -150 AG BY FIRE ASSAY FROM 1 A.T. SAMPLE. DUPAG: AG DUPLICATED FROM -150 MESH. NAG - NATIVE SILVER, TOTAL SAMPLE FIRE ASSAY.
- SAMPLE TYPE: CORE REJ.

Data___ FA DATE RECEIVED: DEC 17 2004 DATE REPORT MAILED: Jan. 14. 2005

BRITISH COLUMBIA CERTIFIED ASSAYER
Jacky Wang

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(ISO 9002 Accredited Co.)

ASSAY CERTIFICATE

Almaden Minerals Ltd. File # A500683

1103 - 750 W. Pender St., Vancouver BC V6C 2T8 Submitted by: Wojtek Jakubowski

SAMPLE#	Au** gm/mt
12431	12.09
12432	24.24
12433	38.23
12434	8.05
12435	59.37
12436	82.25
12437 empty bag	-
12438	27.54
12439	23.09
12440	12.09
RE 12440	10.12
12441	5.83
12442	18.55
12443	31.30
12444 empty bag	-
12445	16.19
12446	38.84
12447 empty bag	-
12448 empty bag	-
12449	56.94
12450	10.19
STANDARD AU-1	3.43

GROUP 6 - PRECIOUS METALS BY FIRE ASSAY FROM 1 A.T. SAMPLE, ANALYSIS BY ICP-ES.
- SAMPLE TYPE: Rock Pulp
Samples beginning 'RE' are Reruns and 'RRE' are Reject Reruns.

Data 1 FA ____ DATE RECEIVED: FEB 24 2005 DATE REPORT MAILED: March 2/05

BRITISH COLUMBIA CERTIFIED ASSAYER
C.T.
Clarence Leong

ACME ANALYTICAL LABORATORIES LTD. 852 E. HASTINGS ST. VANCOUVER BC V6A 1R6 PHONE(604)253-3158 FAX(604)253-1716
(ISO 9002 Accredited Co.)

ASSAY CERTIFICATE

Almaden Minerals Ltd. File # A500683

1103 - 750 W. Pender St., Vancouver BC V6C 2T8 Submitted by: Wojtek Jakubowski

SAMPLE#	Au** gm/mt
12431	12.09
12432	24.24
12433	38.23
12434	8.05
12435	59.37
12436	82.25
12437 empty bag	-
12438	27.54
12439	23.09
12440	12.09
RE 12440	10.12
12441	5.83
12442	18.55
12443	31.30
12444 empty bag	-
12445	16.19
12446	38.84
12447 empty bag	-
12448 empty bag	-
12449	56.94
12450	10.19
STANDARD AU-1	3.43

GROUP 6 - PRECIOUS METALS BY FIRE ASSAY FROM 1 A.T. SAMPLE, ANALYSIS BY ICP-ES.
- SAMPLE TYPE: Rock Pulp
Samples beginning 'RE' are Reruns and 'RRE' are Reject Reruns.

Data 1 FA ____ DATE RECEIVED: FEB 24 2005 DATE REPORT MAILED: March 2/05

BRITISH COLUMBIA CERTIFIED ASSAYER
C.T.
Clarence Leong

ACME ANALYTICAL LABORATORIES LTD. 852 E. HASTINGS ST. VANCOUVER BC V6A 1R6 PHONE(604)253-3158 FAX(604)253-1716
(ISO 9002 Accredited Co.)

ASSAY CERTIFICATE

Almaden Minerals Ltd. PROJECT ELK04-9 File # A406009R
1103 - 750 W. Pender St., Vancouver BC V6C 2T8

SAMPLE#	S.Wt gm	NAu mg	-Au gm/mt	TotAu gm/mt
SND389-13	398	.06	3.21	3.36
STANDARD AU-1	<1	<.01	3.35	3.35

-AU : -150 AU BY FIRE ASSAY FROM 1 A.T. SAMPLE. DUPAU: AU DUPLICATED FROM -150 MESH. NAU - NATIVE GOLD, TOTAL SAMPLE FIRE ASSAY.
- SAMPLE TYPE: CORE REJ.

Data___ FA 4 DATE RECEIVED: DEC 17 2004 DATE REPORT MAILED: Jan. 18/2005

BRITISH COLUMBIA CERTIFIED ASSAYER
Jacky Wang

ACME ANALYTICAL LABORATORIES LTD. 852 E. HASTINGS ST. VANCOUVER BC V6A 1R6 PHONE(604)253-3158 FAX(604)253-1716
(ISO 9002 Accredited Co.)

ASSAY CERTIFICATE

Almaden Minerals Ltd. PROJECT ELK04-9 File # A406009R

1103 - 750 W. Pender St., Vancouver BC V6C 2T8

SAMPLE#	S.Wt gm	NAg mg	-Ag gm/mt	TotAg gm/mt
SND389-13	398	<.06	23	23
STANDARD GC-2a	<1	<.06	1025	1025

-AG : -150 AG BY FIRE ASSAY FROM 1 A.T. SAMPLE. DUPAG: AG DUPLICATED FROM -150 MESH. NAG - NATIVE SILVER, TOTAL SAMPLE FIRE ASSAY.
- SAMPLE TYPE: CORE REJ.

Data___ FA 4/1N4 **DATE RECEIVED:** DEC 17 2004 **DATE REPORT MAILED:** Jan. 18/2005

BRITISH COLUMBIA CERTIFIED ASSAYER
Jacky Wang

ACME ANALYTICAL LABORATORIES LTD. 852 E. HASTINGS ST. VANCOUVER BC V6A 1R6 PHONE(604)253-3158 FAX(604)253-1716
(ISO 9002 Accredited Co.)

GEOCHEMICAL ANALYSIS CERTIFICATE

Almaden Minerals Ltd. PROJECT ELK04-9 File # A406010R

1103 - 750 W. Pender St., Vancouver BC V6C 2T8

SAMPLE#	Mo ppm	Cu ppm	Pb ppm	Zn ppm	Ag ppm	Ni ppm	Co ppm	Mn ppm	Fe %	As ppm	U ppm	Au ppb	Th ppm	Sr ppm	Cd ppm	Sb ppm	Bi ppm	V ppm	Ca %	P %	La ppm	Cr ppm	Mg %	Ba ppm	Ti %	B ppm	Al %	Na %	K %	W ppm	Hg ppm	Sc ppm	Tl ppm	S %	Ga ppm	Se ppm	Ag** gm/mt	Au** gm/mt
SND387-12	2.8	193.3	96.1	52	4.6	1.1	3.1	348	2.58	36.7	9.2	2943.7	8.9	4	.6	2.1	3.7	1	.08	.026	10	2.2	.03	32	.001	1	.31	.014	.28	.2	.03	.4	.1	2.28	1	<.5	5	7.80
SND388-9	3.5	49.6	135.1	37	5.8	2.9	4.8	252	1.74	46.8	8.2	12562.3	9.2	8	.9	.5	1.6	2	.08	.015	17	10.6	.02	36	.001	2	.24	.031	.18	1.9	.02	.5	.1	1.74	1	<.5	8	12.89
SND390-18	2.1	544.3	125.3	64	6.0	1.0	1.6	533	2.36	25.7	4.0	8050.7	8.3	4	1.1	.4	4.3	2	.07	.021	12	3.8	.03	35	.001	1	.29	.019	.22	.1	.01	.6	.1	1.82	1	<.5	7	13.94
SND391-2	2.1	264.5	99.1	41	8.3	1.2	5.5	375	3.08	76.8	9.2	5262.1	9.2	3	1.4	1.7	7.9	1	.05	.021	8	2.0	.03	26	<.001	2	.28	.008	.26	.2	.03	.3	.1	2.85	1	<.5	9	12.34
STANDARD	12.1	127.0	31.6	147	.3	24.7	11.1	719	2.88	21.8	6.8	47.0	3.1	41	6.2	3.3	5.1	58	.87	.085	15	186.2	.59	171	.087	16	1.93	.076	.16	3.3	.25	3.2	1.7	.06	6	4.5	1029	3.44

Standard is STANDARD DS6/GC-2a/AU-1.
GROUP 1DX - 0.50 GM SAMPLE LEACHED WITH 3 ML 2-2-2 HCL-HNO3-H2O AT 95 DEG. C FOR ONE HOUR, DILUTED TO 10 ML, ANALYSED BY ICP-MS.
(>) CONCENTRATION EXCEEDS UPPER LIMITS. SOME MINERALS MAY BE PARTIALLY ATTACKED. REFRACTORY AND GRAPHITIC SAMPLES CAN LIMIT AU SOLUBILITY.
AG** & AU** BY FIRE ASSAY FROM 1 A.T. SAMPLE.
- SAMPLE TYPE: CORE PULP

Data We FA ____ DATE RECEIVED: DEC 17 2004 DATE REPORT MAILED: Jan 5/05

BRITISH COLUMBIA CERTIFIED ASSAYER
Clarence Leong

ACME ANALYTICAL LABORATORIES LTD. 852 E. HASTINGS ST. VANCOUVER BC V6A 1R6 PHONE(604)253-3158 FAX(604)253-1716
(ISO 9002 Accredited Co.)

GEOCHEMICAL ANALYSIS CERTIFICATE

Almaden Minerals Ltd. PROJECT ELK04-10 File # A406098

1103 - 750 W. Pender St., Vancouver BC V6C 2T8

SAMPLE#	Mo ppm	Cu ppm	Pb ppm	Zn ppm	Ag ppm	Ni ppm	Co ppm	Mn ppm	Fe %	As ppm	U ppm	Au ppb	Th ppm	Sr ppm	Cd ppm	Sb ppm	Bi ppm	V ppm	Ca %	P %	La ppm	Cr ppm	Mg %	Ba ppm	Ti %	B ppm	Al %	Na %	K %	W ppm	Hg ppm	Sc ppm	Tl ppm	S %	Ga ppm	Se ppm	Ag** gm/mt	Au** gm/mt
SI	<.1	.5	.3	1	<.1	.1	<.1	10	.03	.6	<.1	.8	<.1	1	<.1	<.1	<.1	<1	.05	<.001	<1	<1	<.01	2	<.001	1	.01	.268	<.01	.1	<.01	.1	<.1	.06	<1	<.5	<2	<.01
SND392-1	24.9	101.9	93.0	265	.8	.7	1.2	217	1.14	194.9	5.2	89.8	6.8	7	7.5	.6	.9	1	.08	.024	13	1.6	.03	26	.002	2	.21	.019	.16	.2	<.01	.6	.1	.98	1	<.5	<2	.16
SND392-13	2.4	210.3	936.5	931	5.6	1.1	2.6	1141	1.82	49.9	11.7	194.7	7.2	17	8.3	12.8	4.9	1	.16	.016	8	3.3	.05	46	<.001	2	.22	.008	.20	.2	.09	.5	.1	1.11	1	<.5	8	.45
SND395-22	1.5	80.1	617.4	568	5.6	1.0	2.3	631	1.53	31.4	7.2	2266.7	7.7	9	4.5	.6	3.7	<1	.05	.011	12	1.6	.03	77	<.001	1	.20	.011	.19	.2	.05	.4	.1	1.07	1	<.5	7	3.16
SND396-2	2.7	168.4	325.0	174	1.2	.9	1.5	539	1.63	44.4	4.9	56.0	7.1	6	1.2	2.7	.4	1	.07	.022	11	3.1	.04	81	.001	1	.20	.019	.17	.2	<.01	.6	.1	1.01	1	<.5	<2	.09
SND396-3	2.4	220.7	1096.3	660	3.2	1.0	1.3	409	2.14	83.8	30.8	546.9	6.7	4	9.8	3.2	1.3	<1	.05	.018	8	1.8	.04	44	<.001	2	.21	.008	.19	.4	.04	.4	.1	1.78	1	<.5	4	.87
SND396-6	2.2	294.8	1270.9	2014	3.9	1.5	1.9	1004	2.30	64.0	20.3	136.0	7.1	11	52.1	18.7	2.4	<1	.07	.016	9	5.0	.03	32	<.001	1	.20	.015	.15	.3	.17	.7	.1	1.48	1	<.5	5	.22
SND396-10(PULP)	19.2	57.1	390.4	34	4.3	1026.8	27.4	376	2.19	60.6	.5	34835.6	3.2	18	<.1	.5	4.7	29	.47	.033	13	1274.1	.60	156	.043	5	.98	.046	.27	13.1	.02	2.4	.1	.06	3	<.5	5	34.46
STANDARD DS5/R-2a/AU-1	12.1	143.3	25.7	133	.3	24.4	11.8	745	2.92	18.1	6.0	43.0	2.0	45	5.6	3.4	5.9	58	.73	.090	11	187.8	.67	138	.092	14	1.99	.034	.13	4.7	.18	3.4	1.0	<.05	6	5.0	157	3.39

GROUP 1DX - 0.50 GM SAMPLE LEACHED WITH 3 ML 2-2-2 HCL-HNO3-H2O AT 95 DEG. C FOR ONE HOUR, DILUTED TO 10 ML, ANALYSED BY ICP-MS.
(>) CONCENTRATION EXCEEDS UPPER LIMITS. SOME MINERALS MAY BE PARTIALLY ATTACKED. REFRACTORY AND GRAPHITIC SAMPLES CAN LIMIT AU SOLUBILITY.
AG** & AU** BY FIRE ASSAY FROM 1 A.T. SAMPLE.
- SAMPLE TYPE: CORE R150 60C

Data 1 FA ____ DATE RECEIVED: OCT 6 2004 DATE REPORT MAILED: Nov 1/04

BRITISH COLUMBIA CERTIFIED ASSAYER
Clarence Leong

ACME ANALYTICAL LABORATORIES LTD. 852 E. HASTINGS ST. VANCOUVER BC V6A 1R6 PHONE(604)253-3158 FAX(604)253-1716
(ISO 9002 Accredited Co.)

GEOCHEMICAL ANALYSIS CERTIFICATE

Almaden Minerals Ltd. PROJECT ELK04-10 File # A406099

1103 - 750 W. Pender St., Vancouver BC V6C 2T8

SAMPLE#	Mo ppm	Cu ppm	Pb ppm	Zn ppm	Ag ppm	Ni ppm	Co ppm	Mn ppm	Fe %	As ppm	U ppm	Au ppb	Th ppm	Sr ppm	Cd ppm	Sb ppm	Bi ppm	V ppm	Ca %	P %	La ppm	Cr ppm	Mg %	Ba ppm	Ti %	B ppm	Al %	Na %	K %	W ppm	Hg ppm	Sc ppm	Tl ppm	S %	Ga ppm	Se ppm
SI	<.1	1.0	1.0	2	<.1	.4	.1	13	.03	<.5	<.1	<.5	<.1	2	<.1	<.1	<.1	<1	.09	<.001	<1	<1	<.01	6	<.001	<1	.01	.354	<.01	.1	<.01	<.1	<.1	<.05	<1	<.5
SND392-6	1.5	98.6	284.7	296	3.0	.9	2.5	426	1.51	23.4	6.4	195.9	6.8	5	1.8	2.2	12.9	1	.04	.009	6	3.7	.01	45	<.001	1	.16	.007	.16	.7	.03	.3	<.1	.91	<1	<.5
SND393-3	2.3	1517.8	561.6	161	16.6	1.3	10.6	495	5.04	140.3	6.8	5964.9	6.0	6	2.5	10.7	29.7	1	.04	.010	5	2.0	.02	11	<.001	1	.18	.004	.18	.3	.09	.4	.1	4.12	1	<.5
SND393-5	2.8	347.4	1783.9	986	6.3	1.6	5.4	209	3.96	171.7	9.4	1717.4	7.1	8	16.8	3.7	5.1	<1	.03	.007	6	2.3	.01	20	<.001	1	.18	.003	.18	.3	.26	.3	.1	3.64	<1	<.5
SND394-4	2.0	1357.0	1153.2	110	14.9	1.4	4.5	400	3.48	142.0	18.0	7824.9	7.2	12	2.2	1.1	6.8	1	.05	.013	7	1.3	.02	18	<.001	2	.20	.003	.18	.3	.19	.3	.2	2.89	1	<.5
SND394-7	8.1	299.9	1500.9	334	36.7	1.8	5.2	221	2.88	144.8	10.5	8621.6	5.5	20	6.9	2.7	25.2	1	.04	.009	9	1.4	.02	16	<.001	2	.18	.003	.13	.1	.27	.3	.2	2.34	<1	<.5
SND395-17	1.9	99.5	92.5	197	3.4	.8	1.3	418	1.38	26.9	4.2	220.5	5.9	1	1.0	.6	4.9	1	.03	.009	5	1.9	.01	29	<.001	1	.15	.003	.15	.3	.01	.2	<.1	.69	<1	<.5
SND395-18	1.3	82.3	92.4	225	1.6	.9	1.7	435	1.49	23.8	4.2	119.1	5.5	2	1.0	.8	7.0	1	.03	.008	5	3.3	.01	30	<.001	1	.16	.003	.14	.2	<.01	.2	<.1	.69	<1	<.5
SND395-24	1.5	37.2	187.5	369	.3	.6	1.6	594	1.14	23.4	4.5	58.0	9.8	4	2.8	.4	.4	1	.06	.015	10	1.3	.02	32	<.001	1	.15	.011	.14	.2	.02	.4	.1	.35	<1	<.5
SND396-5	1.8	221.4	429.6	319	3.1	1.1	2.5	812	2.93	48.5	11.7	925.9	7.9	6	2.0	9.7	1.8	1	.07	.017	7	1.9	.03	41	<.001	1	.19	.007	.17	.4	.01	.5	.1	1.76	1	<.5
STANDARD DS5	12.5	141.7	25.3	135	.3	23.8	12.0	737	2.99	17.7	5.9	44.0	2.5	44	5.5	3.5	6.0	58	.73	.090	11	175.7	.69	138	.099	17	1.99	.034	.16	4.7	.16	3.4	1.0	<.05	6	4.8

GROUP 1DX - 0.50 GM SAMPLE LEACHED WITH 3 ML 2-2-2 HCL-HNO3-H2O AT 95 DEG. C FOR ONE HOUR, DILUTED TO 10 ML, ANALYSED BY ICP-MS.
(>) CONCENTRATION EXCEEDS UPPER LIMITS. SOME MINERALS MAY BE PARTIALLY ATTACKED. REFRACTORY AND GRAPHITIC SAMPLES CAN LIMIT AU SOLUBILITY.
- SAMPLE TYPE: CORE R150 60C

Data___ FA ____ DATE RECEIVED: OCT 6 2004 DATE REPORT MAILED: Oct 30/04

BRITISH COLUMBIA CERTIFIED ASSAYER
Clarence Leong

ACME ANALYTICAL LABORATORIES LTD. 852 E. HASTINGS ST. VANCOUVER BC V6A 1R6 PHONE(604)253-3158 FAX(604)253-1716
(ISO 9002 Accredited Co.)

ASSAY CERTIFICATE

Almaden Minerals Ltd. PROJECT ELK04-10 File # A406099

1103 - 750 W. Pender St., Vancouver BC V6C 2T8

SAMPLE#	S.Wt gm	NAg mg	-Ag gm/mt	TotAg gm/mt
SI	<1	<.06	<2	<2
SND392-6	1024	.09	3	3
SND393-3	986	.50	15	16
SND393-5	1005	.13	9	9
SND394-4	1007	.25	17	17
SND394-7	1015	<.06	43	43
SND395-17	874	.38	3	4
SND395-18	475	.23	3	3
SND395-24	605	<.06	<2	<2
SND396-5	1062	.25	4	4
STANDARD R-2a	<1	<.06	154	154

-AG : -150 AG BY FIRE ASSAY FROM 1 A.T. SAMPLE. DUPAG: AG DUPLICATED FROM -150 MESH. NAG - NATIVE SILVER, TOTAL SAMPLE FIRE ASSAY.
- SAMPLE TYPE: CORE R150 60C

Data___ FA VAN5 DATE RECEIVED: OCT 6 2004 DATE REPORT MAILED: Oct. 30/04

BRITISH COLUMBIA CERTIFIED ASSAYER
C.L
Clarence Leong

ACME ANALYTICAL LABORATORIES LTD. 852 E. HASTINGS ST. VANCOUVER BC V6A 1R6 PHONE(604)253-3158 FAX(604)253-1716
(ISO 9002 Accredited Co.)

ASSAY CERTIFICATE

Almaden Minerals Ltd. PROJECT ELK04-10 File # A406099

1103 - 750 W. Pender St., Vancouver BC V6C 2T8

SAMPLE#	S.Wt gm	NAu mg	-Au gm/mt	TotAu gm/mt
SI	<1	<.01	.01	.01
SND392-6	1024	<.01	.35	.35
SND393-3	986	.16	6.24	6.40
SND393-5	1005	.05	2.63	2.68
SND394-4	1007	.39	8.77	9.16
SND394-7	1015	.03	11.49	11.52
SND395-17	874	.03	.66	.69
SND395-18	475	.01	.19	.21
SND395-24	605	<.01	.15	.15
SND396-5	1062	<.01	.71	.71
STANDARD AU-1	<1	<.01	3.30	3.30

-AU : -150 AU BY FIRE ASSAY FROM 1 A.T. SAMPLE. DUPAU: AU DUPLICATED FROM -150 MESH. NAU - NATIVE GOLD, TOTAL SAMPLE FIRE ASSAY.
- SAMPLE TYPE: CORE R150 60C

Data___ FA

DATE RECEIVED: OCT 6 2004 DATE REPORT MAILED: Oct 30/04

BRITISH COLUMBIA CERTIFIED ASSAYER
C.L
Clarence Leong

ACME ANALYTICAL LABORATORIES LTD. 852 E. HASTINGS ST. VANCOUVER BC V6A 1R6 PHONE(604)253-3158 FAX(604)253-1716
(ISO 9002 Accredited Co.)

ASSAY CERTIFICATE

Almaden Minerals Ltd. PROJECT ELK04-10 File # A406099R

1103 - 750 W. Pender St., Vancouver BC V6C 2T8

SAMPLE#	S.Wt gm	NAu mg	-Au gm/mt	TotAu gm/mt
SND393-3	761	.19	7.14	7.39
SND394-7	174	.01	8.59	8.65
STANDARD AU-1	-	<.01	3.35	3.35

-AU : -150 AU BY FIRE ASSAY FROM 1 A.T. SAMPLE. DUPAU: AU DUPLICATED FROM -150 MESH. NAU - NATIVE GOLD, TOTAL SAMPLE FIRE ASSAY.
- SAMPLE TYPE: CORE REJ.

Data___ FA ____ DATE RECEIVED: DEC 17 2004 DATE REPORT MAILED: Jan 18/05

BRITISH COLUMBIA CERTIFIED ASSAYER
Clarence Leong

ACME ANALYTICAL LABORATORIES LTD. 852 E. HASTINGS ST. VANCOUVER BC V6A 1R6 PHONE(604)253-3158 FAX(604)253-1716
(ISO 9002 Accredited Co.)

ASSAY CERTIFICATE

Almaden Minerals Ltd. PROJECT ELK04-10 File # A406099R

1103 - 750 W. Pender St., Vancouver BC V6C 2T8

SAMPLE#	S.Wt gm	NAg mg	-Ag gm/mt	TotAg gm/mt
SND393-3	761	<.06	19	19
SND394-7	174	<.06	36	36
STANDARD GC-2a	-	<.06	1076	1076

-AG : -150 AG BY FIRE ASSAY FROM 1 A.T. SAMPLE. DUPAG: AG DUPLICATED FROM -150 MESH. NAG - NATIVE SILVER, TOTAL SAMPLE FIRE ASSAY.
- SAMPLE TYPE: CORE REJ.

Data___ FA DATE RECEIVED: DEC 17 2004 DATE REPORT MAILED: Jan 18/05

BRITISH COLUMBIA CERTIFIED ASSAYER
C.L
Clarence Leong

ACME ANALYTICAL LABORATORIES LTD. 852 E. HASTINGS ST. VANCOUVER BC V6A 1R6 PHONE(604)253-3158 FAX(604)253-1716
(ISO 9002 Accredited Co.)

GEOCHEMICAL ANALYSIS CERTIFICATE

Almaden Minerals Ltd. PROJECT ELK04-10 File # A406100 Page 1

1103 - 750 W. Pender St., Vancouver BC V6C 2T8

SAMPLE#	Au* ppb	Sample gm
SI	<.5	30
SND392-2	76.5	30
SND392-3	140.6	30
SND392-4	42.4	30
SND392-5	2.8	30
SND392-7	43.0	30
SND392-8	3.9	30
SND392-9	16.7	30
SND392-10	12.2	30
SND392-11	<.5	30
SND392-12(PULP)	33713.9	15
SND393-1	280.0	30
SND393-2	4.3	30
SND393-4	34.6	30
SND393-6	10.8	30
SND393-7	2238.4	30
SND393-8	32.2	30
SND393-9	48.2	30
SND393-10	13.5	30
SND393-11	703.4	30
RE SND393-11	704.3	30
RRE SND393-11	299.6	30
SND393-12	85.6	30
SND393-13	28.2	30
SND393-14	20.0	30
SND393-15	2.0	30
SND393-16(PULP)	9430.7	15
SND394-1	553.1	30
SND394-2	286.5	30
SND394-3	226.3	30
SND394-5	4.5	30
SND394-6	20.5	30
SND394-8	51.8	30
SND394-9	223.4	30
SND394-10	142.6	30
STANDARD AU-R	509.9	30

AU* IGNITED, ACID LEACHED, ANALYSED BY ICP-MS. (30 gm)
- SAMPLE TYPE: CORE R150 60C
Samples beginning 'RE' are Reruns and 'RRE' are Reject Reruns.

Data f FA

DATE RECEIVED: OCT 6 2004 DATE REPORT MAILED: Oct 29/04

BRITISH COLUMBIA CERTIFIED ASSAYER
C. L
Clarence Leong

SAMPLE#	Au* ppb	Sample gm
SND395-1	90.4	30
SND395-2	19.1	30
SND395-3	35.7	30
SND395-4	33.9	30
SND395-5	57.2	30
SND395-6	18.3	30
SND395-7	42.3	30
SND395-8	29.8	30
SND395-9	294.3	30
SND395-10	50.5	30
SND395-11	12.1	30
SND395-12	46.5	30
RE SND395-12	40.8	30
RRE SND395-12	57.1	30
SND395-13	7.6	30
SND395-14	1.4	30
SND395-15	99.0	30
SND395-16	14.6	30
SND395-19	2.2	30
SND395-20(PULP)	10177.4	15
SND395-21	30.0	30
SND395-23	17.2	30
SND395-25	13.6	30
SND395-26	17.4	30
SND396-1	254.4	30
SND396-4	94.4	30
SND396-7	188.3	30
SND396-8	177.8	30
SND396-9	19.6	30
SND396-11	20.5	30
STANDARD AU-R	496.1	30

Sample type: CORE R150 60C. Samples beginning 'RE' are Reruns and 'RRE' are Reject Reruns.

Data 1 FA ___

ACME ANALYTICAL LABORATORIES LTD. 852 E. HASTINGS ST. VANCOUVER BC V6A 1R6 PHONE(604)253-3158 FAX(604)253-1716
(ISO 9002 Accredited Co.)

GEOCHEMICAL ANALYSIS CERTIFICATE

Almaden Minerals Ltd. PROJECT ELK04-11 File # A406554

1103 - 750 W. Pender St., Vancouver BC V6C 2T8

SAMPLE#	Mo ppm	Cu ppm	Pb ppm	Zn ppm	Ag ppm	Ni ppm	Co ppm	Mn ppm	Fe %	As ppm	U ppm	Au ppb	Th ppm	Sr ppm	Cd ppm	Sb ppm	Bi ppm	V ppm	Ca %	P %	La ppm	Cr ppm	Mg %	Ba ppm	Ti %	B ppm	Al %	Na %	K %	W ppm	Hg ppm	Sc ppm	Tl ppm	S %	Ga ppm	Se ppm	Ag** gm/mt	Au** gm/mt
SI	.6	1.7	.6	6	<.1	1.0	.2	9	.23	4.4	<.1	<.5	<.1	5	.1	<.1	<.1	<1	.24	<.001	<1	2.3	.01	6	<.001	1	.01	.953	.01	<.1	.01	.1	<.1	<.05	<1	<.5	<2	<.01
SND397-4	3.4	41.6	479.4	1135	.9	1.8	2.3	1049	1.18	29.0	5.7	108.5	6.0	5	17.6	2.2	1.1	<1	.06	.012	14	4.0	.02	338	<.001	4	.23	.005	.25	1.4	.14	.3	.1	.45	1	<.5	2	.28
SND397-6	3.5	533.0	207.4	370	17.9	3.2	3.7	520	3.80	63.1	8.8	1361.2	6.2	2	1.8	3.8	35.4	<1	.05	.015	5	6.3	.03	22	<.001	<1	.25	.009	.26	.2	.02	.2	.1	3.59	1	<.5	25	1.44
SND397-7	4.0	21.0	397.1	499	.9	1.5	2.1	258	.87	21.4	5.6	731.8	5.5	4	7.2	5.1	.6	<1	.05	.009	11	4.2	.02	218	<.001	2	.21	.009	.19	1.3	.09	.2	.1	.58	1	<.5	<2	.87
SND398-10	2.2	194.9	211.3	622	.3	4.2	9.8	2333	6.76	253.4	4.4	13.2	4.2	13	2.1	.7	.3	28	.48	.128	15	4.8	.36	95	.003	1	.85	.017	.39	.1	<.01	4.3	.2	1.96	2	<.5	<2	.02
SND400-1	1.8	42.4	22.2	49	.6	18.4	15.6	793	1.97	22.8	4.3	80.7	3.2	41	.6	.7	.4	10	1.27	.107	13	11.4	.19	119	.002	3	.68	.009	.34	.4	<.01	3.2	.1	.81	2	<.5	<2	.13
SND400-4	3.9	45.3	11.0	52	1.9	2.5	6.3	1208	2.99	14.2	4.0	1708.2	6.7	15	.2	.3	2.5	26	.58	.071	18	5.6	.38	165	.079	2	.76	.049	.52	.1	<.01	3.8	.3	.34	4	<.5	2	3.17
SND401-2	2.1	171.1	247.9	116	1.1	1.6	2.2	372	1.59	25.6	2.7	235.5	7.4	5	.5	.8	1.8	1	.06	.019	9	4.5	.03	149	.001	<1	.26	.013	.23	1.6	<.01	.4	.1	1.10	1	<.5	<2	.30
SND401-4	2.5	544.0	407.7	177	4.4	1.3	4.8	389	2.32	56.1	4.5	443.9	7.5	5	1.2	7.1	4.0	<1	.06	.017	8	4.2	.03	77	<.001	2	.26	.008	.26	.1	.01	.3	.1	1.82	1	<.5	6	.71
SND402-7	1.9	82.8	205.4	289	1.1	1.6	3.0	650	1.68	28.2	5.3	167.6	6.6	5	1.1	.3	1.2	1	.08	.019	12	5.3	.04	174	<.001	1	.26	.017	.22	1.2	<.01	.5	.1	.86	1	<.5	2	.17
RE SND402-7	2.0	81.8	206.1	289	1.0	1.4	3.0	648	1.67	27.8	5.2	146.1	6.7	5	1.1	.3	1.1	1	.08	.017	12	5.3	.04	174	<.001	1	.25	.017	.23	1.1	<.01	.5	.1	.84	1	<.5	<2	.18
RRE SND402-7	2.9	82.8	206.4	309	1.4	1.8	2.6	707	1.90	24.4	5.1	156.1	7.8	6	1.2	.4	1.4	1	.08	.020	15	7.9	.05	219	<.001	3	.32	.025	.26	.2	<.01	.6	.1	.67	1	<.5	<2	.12
SND403-1	1.4	221.0	8.6	18	1.7	1.5	1.5	448	1.21	25.1	5.0	33.9	7.3	4	.2	.1	.1	4	.13	.017	15	4.8	.08	94	.004	2	.29	.021	.20	1.4	<.01	.6	.1	.46	1	<.5	3	.10
SND403-4	1.4	14.2	27.7	28	.4	1.0	2.4	771	1.06	35.9	2.6	39.6	7.0	17	.5	.1	.1	<1	.73	.019	10	5.5	.07	31	<.001	1	.25	.013	.22	.1	<.01	.5	.1	.60	1	<.5	<2	.10
SND403-5	1.5	29.2	30.3	190	.5	1.4	2.0	419	1.09	28.1	3.7	142.3	8.5	3	4.8	.2	<.1	2	.08	.020	16	4.2	.06	293	.003	1	.25	.019	.19	1.2	<.01	.5	.1	.57	1	<.5	<2	.74
SND403-6	2.1	90.9	6.1	36	3.3	2.1	8.0	1188	3.16	18.3	4.7	4759.7	5.7	13	.2	.1	3.0	14	.29	.064	15	3.7	.25	91	.004	2	.52	.022	.27	.1	.01	2.7	.1	.97	2	<.5	4	4.56
SND403-7	1.8	98.0	6.2	34	2.5	2.5	7.8	1148	2.93	14.7	4.1	2208.7	5.7	14	.1	.2	3.1	13	.29	.064	15	3.6	.25	96	.005	2	.49	.020	.24	1.4	.04	2.6	.1	.83	2	<.5	3	3.09
STANDARD DS5	11.7	142.6	26.3	130	.3	25.8	11.0	768	2.93	17.7	6.6	41.2	2.7	43	5.2	3.6	6.0	59	.70	.090	12	176.1	.68	131	.090	17	1.97	.033	.15	4.9	.16	3.4	1.1	<.05	7	4.9	156	3.31

Standard is STANDARD DS5/R-2a/AU-1.

GROUP 1DX - 0.50 GM SAMPLE LEACHED WITH 3 ML 2-2-2 HCL-HNO3-H2O AT 95 DEG. C FOR ONE HOUR, DILUTED TO 10 ML, ANALYSED BY ICP-MS.

(>) CONCENTRATION EXCEEDS UPPER LIMITS. SOME MINERALS MAY BE PARTIALLY ATTACKED. REFRACTORY AND GRAPHITIC SAMPLES CAN LIMIT AU SOLUBILITY.

AG** & AU** BY FIRE ASSAY FROM 1 A.T. SAMPLE.

- SAMPLE TYPE: CORE R150 60C Samples beginning 'RE' are Reruns and 'RRE' are Reject Reruns.

Data f. FA ____ **DATE RECEIVED:** OCT 21 2004 **DATE REPORT MAILED:** Nov 9/04

BRITISH COLUMBIA CERTIFIED ASSAYER
Clarence Leong

ACME ANALYTICAL LABORATORIES LTD. 852 E. HASTINGS ST. VANCOUVER BC V6A 1R6 PHONE(604)253-3158 FAX(604)253-1716
(ISO 9002 Accredited Co.)

GEOCHEMICAL ANALYSIS CERTIFICATE

Almaden Minerals Ltd. PROJECT ELK04-11 File # A406555

1103 - 750 W. Pender St., Vancouver BC V6C 2T8

SAMPLE#	Mo ppm	Cu ppm	Pb ppm	Zn ppm	Ag ppm	Ni ppm	Co ppm	Mn ppm	Fe %	As ppm	U ppm	Au ppb	Th ppm	Sr ppm	Cd ppm	Sb ppm	Bi ppm	V ppm	Ca %	P %	La ppm	Cr ppm	Mg %	Ba ppm	Ti %	B ppm	Al %	Na %	K %	W ppm	Hg ppm	Sc ppm	Tl ppm	S %	Ga ppm	Se ppm
SI	<.1	2.1	.5	1	<.1	.2	<.1	8	.03	<.5	<.1	1.6	<.1	2	<.1	<.1	<.1	<1	.11	<.001	<1	<1	<.01	2	<.001	<1	.01	.398	<.01	<.1	.01	<.1	<.1	<.05	<1	<.5
SND398-4	3.1	101.2	1527.3	1364	2.9	3.1	6.5	1538	3.80	302.3	3.7	1089.2	6.4	45	18.5	.2	.4	10	2.55	.076	13	1.7	.40	60	.001	<1	.41	.017	.28	.1	.11	1.9	.1	1.85	1	<.5
SND398-5	2.3	202.4	123.5	309	6.5	3.7	14.0	1245	4.74	91.1	7.2	2197.9	5.4	36	6.9	.2	2.3	8	1.45	.055	10	1.2	.38	24	.001	<1	.46	.016	.23	.1	.03	1.9	.1	2.71	1	<.5
SND398-16	1.2	1486.7	1050.9	602	38.7	3.0	15.0	73	6.02	652.0	21.1	15485.2	.8	6	9.4	1.6	7.3	3	.07	.026	3	3.8	.02	9	.001	<1	.18	.004	.13	.1	.02	.7	.1	5.93	1	.6
SND400-2	2.2	2179.7	21.0	103	15.6	3.3	13.7	864	10.66	47.3	2.6	6572.0	3.6	5	2.7	.4	9.3	5	.21	.055	6	3.7	.12	19	.002	<1	.34	.007	.27	.4	.01	1.3	.1	8.40	1	.6
SND400-6	22.2	1879.9	42.7	127	37.7	6.2	19.0	1430	11.94	155.4	13.7	56612.6	2.3	7	1.7	3.0	32.3	4	.25	.034	6	2.4	.21	22	.001	<1	.35	.007	.24	.3	.04	1.3	.7	9.20	1	1.2
RE SND400-6	22.4	1885.3	42.8	128	39.7	5.9	18.5	1439	11.93	154.3	13.1	64317.1	2.5	7	1.9	2.9	32.8	3	.25	.035	6	2.6	.21	20	.001	<1	.35	.007	.23	.2	.03	1.4	.7	9.00	1	.9
RRE SND400-6	20.8	1867.8	42.9	133	37.3	5.7	17.8	1377	11.25	158.1	13.1	68644.2	3.2	7	2.1	3.0	31.5	3	.24	.035	9	2.3	.20	23	.001	<1	.31	.006	.21	.2	.04	1.2	.7	8.54	1	.8
SND401-5	3.4	1167.3	813.8	212	12.0	1.4	12.3	443	4.21	121.5	4.0	2413.6	8.6	16	2.0	.9	6.8	<1	.05	.017	7	2.7	.03	17	<.001	<1	.23	.006	.21	.1	.03	.4	.1	3.70	1	.5
SND402-2	5.1	297.9	315.3	327	39.2	1.5	10.8	67	4.15	82.3	2.2	7079.6	4.4	2	9.6	.7	24.9	<1	.03	.011	4	4.3	.01	22	<.001	1	.17	.003	.17	.1	.02	.3	<.1	3.97	<1	<.5
SND403-12	1.2	147.8	31.9	66	5.5	3.5	11.4	1873	6.03	159.2	5.1	2542.0	7.0	7	.7	.3	1.1	7	.30	.066	10	2.1	.19	35	.003	1	.42	.012	.27	.2	.01	2.3	.1	2.91	1	<.5
SND403-14	2.1	1343.0	67.0	114	7.3	3.2	6.7	912	9.20	67.4	6.6	1878.4	4.8	9	2.6	.4	2.1	6	.20	.055	9	3.0	.11	23	.001	<1	.33	.009	.24	.3	<.01	1.8	.7	6.12	1	.6
SND403-17	21.5	232.8	166.5	447	12.3	5.1	29.1	1936	13.41	306.0	12.6	16807.3	3.0	12	5.0	1.0	28.9	17	.38	.081	15	2.2	.25	24	.002	1	.37	.022	.16	.1	.01	3.9	.1	>10	2	.8
STANDARD DS5	12.3	144.6	25.3	138	.3	23.2	11.7	781	2.94	17.9	6.2	44.0	2.9	45	5.4	3.5	6.0	58	.72	.088	12	178.1	.68	136	.104	17	2.00	.033	.14	4.7	.16	3.5	1.1	<.05	6	5.1

GROUP 1DX - 0.50 GM SAMPLE LEACHED WITH 3 ML 2-2-2 HCL-HNO3-H2O AT 95 DEG. C FOR ONE HOUR, DILUTED TO 10 ML, ANALYSED BY ICP-MS.
(>) CONCENTRATION EXCEEDS UPPER LIMITS. SOME MINERALS MAY BE PARTIALLY ATTACKED. REFRACTORY AND GRAPHITIC SAMPLES CAN LIMIT AU SOLUBILITY.
- SAMPLE TYPE: CORE R150 60C Samples beginning 'RE' are Reruns and 'RRE' are Reject Reruns.

Data f FA ____ DATE RECEIVED: OCT 21 2004 DATE REPORT MAILED: Nov 17/04

BRITISH COLUMBIA CERTIFIED ASSAYER
Clarence Leong

ACME ANALYTICAL LABORATORIES LTD. 852 E. HASTINGS ST. VANCOUVER BC V6A 1R6 PHONE(604)253-3158 FAX(604)253-1716
(ISO 9002 Accredited Co.)

ASSAY CERTIFICATE

Almaden Minerals Ltd. PROJECT ELK04-11 File # A406555

1103 - 750 W. Pender St., Vancouver BC V6C 2T8

SAMPLE#	S.Wt gm	NAu mg	-Au gm/mt	TotAu gm/mt
SI	<1	<.01	<.01	<.01
SND398-4	881	.01	1.05	1.06
SND398-5	976	<.01	3.33	3.33
SND398-16	822	3.68	15.41	19.89
SND400-2	1037	.51	7.85	8.34
SND400-6	444	4.62	53.86	64.27
RRE SND400-6	468	3.32	56.73	63.82
SND401-5	1033	.01	2.82	2.83
SND402-2	619	.14	6.36	6.59
SND403-12	1055	.11	2.04	2.14
SND403-14	995	.26	2.48	2.74
SND403-17	897	11.94	24.52	37.83
STANDARD AU-1	<1	.01	3.26	3.26

-AU : -150 AU BY FIRE ASSAY FROM 1 A.T. SAMPLE. DUPAU: AU DUPLICATED FROM -150 MESH. NAU - NATIVE GOLD, TOTAL SAMPLE FIRE ASSAY.
- SAMPLE TYPE: CORE R150 60C

Data___ FA ___ DATE RECEIVED: OCT 21 2004 DATE REPORT MAILED: Nov.17/04...

BRITISH COLUMBIA CERTIFIED ASSAYER
C.L.
Clarence Leong

ACME ANALYTICAL LABORATORIES LTD. 852 E. HASTINGS ST. VANCOUVER BC V6A 1R6 PHONE(604)253-3158 FAX(604)253-1716
(ISO 9002 Accredited Co.)

ASSAY CERTIFICATE

Almaden Minerals Ltd. PROJECT ELK04-11 File # A406555

1103 - 750 W. Pender St., Vancouver BC V6C 2T8

SAMPLE#	S.Wt gm	NAg mg	-Ag gm/mt	DupAg gm/mt	TotAg gm/mt
SI	<1	<.06	<2	-	<2
SND398-4	881	.36	3	-	4
SND398-5	976	.70	9	-	10
SND398-16	822	3.70	41	-	46
SND400-2	1037	.78	15	-	15
SND400-6	444	1.12	36	37	39
RRE SND400-6	468	<.06	36	-	36
SND401-5	1033	1.83	13	-	15
SND402-2	619	<.06	45	-	45
SND403-12	1055	.31	7	-	8
SND403-14	995	.20	8	-	8
SND403-17	897	3.09	15	-	18
STANDARD R-2a	<1	<.06	158	-	158

-AG : -150 AG BY FIRE ASSAY FROM 1 A.T. SAMPLE. DUPAG: AG DUPLICATED FROM -150 MESH. NAG - NATIVE SILVER, TOTAL SAMPLE FIRE ASSAY.
- SAMPLE TYPE: CORE R150 60C

Data___ FA ✓ DATE RECEIVED: OCT 21 2004 DATE REPORT MAILED: Nov. 17/04

BRITISH COLUMBIA CERTIFIED ASSAYER
Clarence Leong

ACME ANALYTICAL LABORATORIES LTD. 852 E. HASTINGS ST. VANCOUVER BC V6A 1R6 PHONE(604)253-3158 FAX(604)253-1716
(ISO 9002 Accredited Co.)

GEOCHEMICAL ANALYSIS CERTIFICATE

Almaden Minerals Ltd. PROJECT ELK04-11 File # A406556 Page 1

1103 - 750 W. Pender St., Vancouver BC V6C 2T8

SAMPLE#	Au* ppb
SI	<.5
SND397-1	4182.2
SND397-2	592.5
SND397-3	8.7
SND397-5	10.3
SND398-1	24.4
SND398-2	39.2
SND398-3	5.4
SND398-6	1.1
SND398-7	1000.0
SND398-8	473.9
SND398-9	1279.1
SND398-11	.8
RE SND398-11	1.4
RRE SND398-11	2.9
SND398-12	16.8
SND398-13	19.6
SND398-14	<.5
SND398-15(PULP)	9963.0
SND398-17	138.6
SND398-18	17.2
SND398-19	4.5
SND398-20	68.1
SND400-3	78.4
SND400-5	2.5
SND400-7	6.3
SND401-1	1.7
SND401-3	15.7
SND401-6	14.2
SND402-1	237.3
SND402-3	86.7
SND402-4	96.1
SND402-5	3.6
SND402-6(PULP)	10885.2
STANDARD AU-R2	556.8

AU* IGNITED, ACID LEACHED, ANALYSED BY ICP-MS. (30 gm)
- SAMPLE TYPE: CORE R150 60C
Samples beginning 'RE' are Reruns and 'RRE' are Reject Reruns.

Data 1 FA ____ DATE RECEIVED: OCT 21 2004 DATE REPORT MAILED: Nov. 9/04

BRITISH COLUMBIA CERTIFIED ASSAYER
Clarence Leong

ACME ANALYTICAL LABORATORIES LTD. 852 E. HASTINGS ST. VANCOUVER BC V6A 1R6 PHONE(604)253-3158 FAX(604)253-1716
(ISO 9002 Accredited Co.)

GEOCHEMICAL ANALYSIS CERTIFICATE

Almaden Minerals Ltd. PROJECT ELK04-12 File # A406851 Page 1

1103 - 750 W. Pender St., Vancouver BC V6C 2T8

SAMPLE#	Mo ppm	Cu ppm	Pb ppm	Zn ppm	Ag ppm	Ni ppm	Co ppm	Mn ppm	Fe %	As ppm	U ppm	Au ppb	Th ppm	Sr ppm	Cd ppm	Sb ppm	Bi ppm	V ppm	Ca %	P %	La ppm	Cr ppm	Mg %	Ba ppm	Ti %	B ppm	Al %	Na %	K %	W ppm	Hg ppm	Sc ppm	Tl ppm	S %	Ga ppm	Se ppm	Ag** gm/mt	Au** gm/mt
SI	<.1	2.1	.2	1	<.1	1.2	.1	1	.03	<.5	<.1	<.5	<.1	2	.2	<.1	<.1	<1	.06	<.001	<1	<1	.01	2	<.001	1	<.01	.278	<.01	<.1	<.01	.1	<.1	<.05	<1	<.5	<2	<.01
SND405-2	2.1	33.2	57.3	45	.5	9.0	1.9	431	.88	35.9	4.2	102.9	5.6	3	.6	.5	.1	<1	.02	.004	10	12.1	.05	21	<.001	2	.18	.008	.16	2.5	.01	.4	.1	.39	<1	<.5	<2	.18
SND405-3	1.1	512.2	99.6	66	2.4	3.1	1.4	596	2.26	71.2	3.9	614.9	8.7	3	1.2	1.0	.8	<1	.03	.009	7	4.9	.05	41	<.001	1	.24	.005	.20	.1	<.01	.3	.1	1.68	1	<.5	4	1.49
SND405-4	5.0	872.9	319.7	110	8.1	7.0	10.9	712	10.31	143.8	13.0	11997.7	4.5	2	4.1	4.8	7.6	<1	.02	.005	5	9.4	.03	14	<.001	2	.17	.004	.14	2.2	.01	.1	11.7	6.88	<1	<.5	9	7.85
SND405-7	.7	200.2	36.8	50	1.8	2.0	2.8	950	2.99	1652.6	3.2	919.4	10.0	5	.4	1.9	.9	6	.09	.030	25	5.2	.08	44	.008	2	.27	.014	.23	.2	<.01	.9	.1	1.96	1	<.5	<2	1.26
SND405-9	2.2	74.7	102.5	242	5.9	3.7	7.0	1307	3.98	263.1	3.0	5175.0	8.0	7	4.5	.6	2.3	11	.18	.050	34	8.9	.11	57	.012	3	.33	.016	.22	1.8	.01	1.3	.1	2.00	1	<.5	10	4.56
SND405-11	1.1	22.7	172.3	268	.5	2.7	8.0	1487	3.03	476.9	3.4	120.9	5.3	13	1.7	1.1	<.1	21	.33	.081	13	4.3	.26	555	.038	2	.54	.026	.34	.1	<.01	4.1	.2	.24	2	<.5	<2	.18
SND405-12	2.0	16.5	150.5	303	.5	4.1	8.4	1472	2.96	642.3	3.1	90.3	5.7	14	2.4	1.4	.1	22	.32	.077	13	7.3	.24	719	.031	3	.54	.027	.32	.7	<.01	4.1	.2	.21	2	<.5	<2	.13
SND405-15	1.3	37.8	12.7	52	.9	2.1	6.3	677	2.75	11.9	2.0	247.3	5.5	14	.3	.1	.4	27	.38	.063	14	3.8	.37	175	.075	2	.65	.034	.33	.1	<.01	3.0	.2	.49	3	<.5	<2	.27
SND405-16	2.2	26.2	58.7	175	.6	2.6	7.3	1364	2.63	7.0	3.0	217.2	6.4	32	4.0	.1	.3	22	1.64	.081	21	6.0	.31	74	.006	2	.61	.025	.22	.3	<.01	3.9	.1	.21	3	<.5	<2	.36
SND405-17	2.9	13.1	192.9	76	1.3	1.8	9.3	1209	2.75	263.9	3.2	462.8	4.2	26	.9	.7	.2	24	1.44	.072	11	4.5	.39	124	.065	1	.65	.039	.30	.1	<.01	3.7	.1	.66	3	<.5	<2	.80
SND405-23	3.4	125.8	13.4	33	1.2	2.8	6.6	586	3.36	86.6	3.0	104.4	6.5	24	.2	.2	.4	4	.82	.056	10	7.7	.38	72	.001	2	.47	.013	.42	2.2	.01	1.0	.1	2.60	1	<.5	<2	.10
SND405-25	3.9	231.3	32.0	42	2.3	2.0	6.1	834	4.21	99.1	11.5	436.0	7.1	8	.5	.2	.9	3	.22	.057	11	2.7	.19	53	.001	5	.49	.011	.38	.2	<.01	1.2	.1	2.74	1	<.5	2	.47
SND405-26	2.1	43.7	10.2	43	1.0	3.7	4.5	998	2.48	15.8	4.4	305.6	4.8	10	.2	.1	.5	8	.26	.052	16	7.6	.19	77	.003	3	.48	.025	.33	1.4	<.01	2.4	.2	.50	2	<.5	<2	.69
SND405-27	1.5	14.7	10.0	53	.3	3.2	4.3	1360	2.23	14.1	3.7	10.7	6.4	5	.2	.1	.1	3	.24	.053	13	3.1	.16	50	.001	3	.44	.006	.40	.3	<.01	1.6	.1	.32	1	<.5	<2	.02
RE SND405-27	1.5	14.2	9.1	44	.3	3.2	4.2	1379	2.27	13.4	5.0	8.6	6.5	5	.3	.1	.1	2	.25	.051	12	3.6	.16	49	.001	2	.43	.006	.41	.3	<.01	1.4	.1	.33	1	<.5	<2	.01
RRE SND405-27	2.2	16.6	9.6	46	.3	4.6	4.2	1409	2.28	14.3	4.0	6.7	6.4	5	.2	.1	.1	2	.25	.053	11	8.8	.16	47	.001	1	.41	.006	.37	2.1	<.01	1.4	.1	.35	1	<.5	<2	.01
SND405-28	3.2	63.6	169.9	296	4.0	1.7	5.6	1029	2.95	64.1	7.3	689.1	8.6	9	1.4	.7	2.3	8	.24	.046	27	2.1	.20	54	.002	2	.42	.023	.23	.2	<.01	2.7	.3	1.02	1	<.5	5	.86
SND405-29	1.8	89.1	49.6	153	1.9	3.7	6.5	1415	3.51	63.8	2.7	978.4	4.8	7	.7	.3	.5	5	.35	.031	12	6.4	.18	51	.001	2	.38	.019	.27	1.2	<.01	1.8	.3	1.56	1	<.5	3	1.36
SND405-30	3.1	135.1	10.3	58	1.1	2.4	5.1	711	2.99	50.7	3.8	178.3	8.9	12	.4	.3	.1	21	.25	.065	13	4.2	.24	100	.041	3	.59	.029	.41	.1	<.01	3.4	.2	1.47	2	<.5	<2	.22
SND405-31	2.9	553.0	28.2	53	4.9	4.9	5.2	680	3.08	25.3	4.7	3825.2	7.7	8	.7	.2	5.1	12	.20	.041	12	8.1	.21	86	.014	2	.55	.023	.34	.9	<.01	2.5	.1	1.58	2	<.5	6	9.62
SND405-32	2.8	285.1	17.7	48	1.7	1.8	4.7	574	2.70	21.6	5.0	1265.4	8.1	10	.5	.1	1.2	19	.22	.045	13	5.9	.23	98	.031	1	.58	.030	.35	.1	<.01	3.2	.1	1.22	2	<.5	<2	6.12
SND405-33	2.0	3.7	4.6	31	<.1	3.1	2.0	580	1.13	1.2	3.6	3.9	10.8	15	.1	.1	<.1	11	.38	.027	27	11.5	.17	83	.016	2	.26	.047	.14	1.4	<.01	1.3	.1	<.05	1	<.5	<2	<.01
SND405-34(PULP)	14.8	286.1	290.1	349	4.7	151.8	22.3	505	3.41	213.8	3.2	8808.9	2.1	47	2.7	18.1	4.2	44	1.17	.041	6	273.6	.50	114	.034	4	1.08	.030	.38	5.9	.44	4.6	.6	1.44	4	1.7	6	9.94
SND405-35	3.2	408.5	23.0	42	2.9	2.8	7.2	775	5.67	107.4	4.9	683.5	6.5	7	.4	.3	.8	7	.25	.060	7	3.4	.22	43	.001	3	.57	.010	.43	.3	<.01	1.9	.1	4.34	1	<.5	4	.76
SND405-36	2.6	104.1	46.8	75	5.6	2.8	5.3	672	4.28	49.7	7.2	3830.3	6.9	4	.5	.2	3.6	3	.14	.026	10	6.3	.14	39	.001	2	.36	.009	.27	1.5	<.01	1.2	.1	3.12	1	<.5	8	4.04
SND406-2	.7	239.9	15.7	53	2.4	3.0	8.1	1143	4.06	158.7	2.6	208.4	4.6	7	.5	.4	.2	12	.27	.080	13	3.0	.17	77	.014	2	.64	.013	.37	.1	<.01	2.6	.1	2.60	2	<.5	2	.11
SND406-4	1.4	45.1	98.8	202	.4	4.1	6.0	1544	3.49	35.8	2.2	100.6	6.8	13	.9	.2	.3	18	.33	.074	20	7.5	.18	128	.007	2	.64	.028	.31	.7	<.01	4.5	.1	1.15	2	<.5	<2	.14
SND406-7	1.3	112.7	199.9	429	1.9	10.1	10.4	1365	2.94	2626.4	1.1	483.1	3.6	58	7.7	3.0	<.1	50	2.64	.115	23	11.6	.77	138	.086	2	1.02	.033	.49	.6	.01	6.9	.2	.54	3	<.5	<2	.53
SND407-3	3.2	114.9	40.5	46	3.9	3.2	6.6	537	3.69	37.7	3.0	2510.2	8.1	19	.1	.3	.8	23	.70	.053	14	7.5	.31	64	.010	3	.72	.030	.30	.8	<.01	3.2	.1	2.72	3	<.5	7	2.13
SND407-4	2.5	177.1	6.9	37	.7	1.9	5.7	637	3.43	31.7	6.3	286.6	8.0	7	.2	.2	.3	7	.23	.048	11	2.3	.12	47	.002	2	.52	.010	.34	30.0	<.01	1.8	.1	2.65	1	<.5	<2	.36
SND408-1	1.9	32.6	50.5	37	6.3	3.1	4.3	562	1.97	33.9	4.2	2307.4	8.9	3	.5	.1	3.8	3	.08	.020	20	7.9	.03	27	.002	3	.26	.015	.18	1.6	<.01	.6	.1	1.38	1	<.5	19	8.76
SND408-2	.8	77.1	43.0	58	1.3	1.2	3.2	1188	3.12	35.1	2.9	795.6	8.4	5	.9	.1	.6	11	.15	.040	23	3.7	.13	76	.019	2	.39	.022	.24	.2	<.01	1.2	.1	1.65	2	<.5	<2	1.43
SND408-3	1.8	138.4	54.4	58	.8	2.2	2.9	1134	3.72	54.9	3.3	411.6	9.9	6	1.0	.2	.4	11	.17	.042	28	9.3	.13	78	.023	<1	.39	.024	.27	1.9	<.01	1.2	.1	2.64	2	<.5	<2	.84
STANDARD DS5/R-2a/AU-1	12.5	146.9	24.8	139	.3	24.8	12.0	749	3.00	18.2	6.0	41.0	2.9	47	6.0	4.0	6.1	58	.74	.093	14	187.8	.67	144	.100	17	2.00	.032	.15	4.7	.17	3.7	1.1	<.05	7	5.1	153	3.34

GROUP 1DX - 0.50 GM SAMPLE LEACHED WITH 3 ML 2-2-2 HCL-HNO3-H2O AT 95 DEG. C FOR ONE HOUR, DILUTED TO 10 ML, ANALYSED BY ICP-MS.
(>) CONCENTRATION EXCEEDS UPPER LIMITS. SOME MINERALS MAY BE PARTIALLY ATTACKED. REFRACTORY AND GRAPHITIC SAMPLES CAN LIMIT AU SOLUBILITY.
AG** & AU** BY FIRE ASSAY FROM 1 A.T. SAMPLE.
- SAMPLE TYPE: CORE R150 60C Samples beginning 'RE' are Reruns and 'RRE' are Reject Reruns.

Data 1 FA _____ DATE RECEIVED: NOV 1 2004 DATE REPORT MAILED: Nov 23/04

BRITISH COLUMBIA CERTIFIED ASSAYER
Clarence Leong

SAMPLE#	Mo ppm	Cu ppm	Pb ppm	Zn ppm	Ag ppm	Ni ppm	Co ppm	Mn ppm	Fe %	As ppm	U ppm	Au ppb	Th ppm	Sr ppm	Cd ppm	Sb ppm	Bi ppm	V ppm	Ca %	P %	La ppm	Cr ppm	Mg %	Ba ppm	Ti %	B ppm	Al %	Na %	K %	W ppm	Hg ppm	Sc ppm	Tl ppm	S %	Ga ppm	Se ppm	Ag** gm/mt	Au** gm/mt
SND408-7	2.8	48.1	8.2	85	.2	2.2	7.7	2239	3.62	29.3	6.5	23.5	6.4	8	.4	.1	.1	18	.33	.077	17	5.0	.25	199	.038	1	.68	.024	.38	.1	<.01	4.2	.2	.73	3	<.5	<2	.13
SND408-12	3.2	18.0	11.5	61	.1	3.3	8.6	1526	3.04	6.0	3.3	9.2	5.9	11	.5	.1	.1	20	.35	.095	21	7.4	.31	564	.050	1	.65	.033	.37	.4	<.01	3.9	.2	.27	3	<.5	<2	.03
SND408-13	2.0	24.9	4.2	54	1.9	2.0	8.6	1502	3.25	8.8	5.3	267.8	7.8	12	.2	.1	<.1	21	.36	.091	21	3.5	.26	188	.043	1	.58	.035	.35	<.1	.03	4.6	.2	.54	3	<.5	<2	.12
SND409-1	13.4	11.7	38.1	96	.2	2.7	3.1	898	1.25	2.5	13.7	<.5	10.9	11	.6	.2	<.1	1	.12	.022	35	12.6	.07	33	<.001	2	.26	.022	.12	1.3	.02	.7	.4	<.05	1	<.5	<2	<.01
SND409-5	15.6	60.2	113.0	172	.5	2.1	6.0	1952	2.07	21.5	5.4	31.5	6.5	7	2.7	.3	.1	6	.20	.055	15	2.9	.11	504	.002	1	.55	.011	.31	.1	.01	2.8	.5	.22	1	<.5	<2	.06
SND409-12	2.5	283.2	5.9	50	.5	3.8	5.7	1151	4.35	9.0	3.3	72.6	5.4	8	.3	.8	.4	15	.31	.079	15	7.5	.30	109	.035	5	.71	.020	.42	.9	<.01	3.0	.3	1.58	2	<.5	<2	.10
SND409-13	2.6	88.8	3.3	76	.1	4.4	7.9	1068	3.12	7.4	6.8	334.2	5.8	11	.2	.3	.1	24	.43	.079	19	4.1	.35	168	.076	1	.71	.030	.43	.1	<.01	3.6	.8	.63	3	<.5	<2	.07
STANDARD	11.4	121.4	30.5	138	.3	23.2	10.4	685	2.73	20.7	6.6	45.2	2.9	39	6.2	3.5	5.0	55	.82	.077	15	182.5	.58	162	.079	17	1.84	.073	.15	3.5	.23	3.2	1.7	<.05	6	4.4	154	3.41

Standard is STANDARD DS6/R-2a/AU-1.

Data ___ FA ___

ACME ANALYTICAL LABORATORIES LTD. 852 E. HASTINGS ST. VANCOUVER BC V6A 1R6 PHONE(604)253-3158 FAX(604)253-1716
(ISO 9002 Accredited Co.)

GEOCHEMICAL ANALYSIS CERTIFICATE

Almaden Minerals Ltd. PROJECT ELK04-12 File # A406852

1103 - 750 W. Pender St., Vancouver BC V6C 2T8

SAMPLE#	Mo ppm	Cu ppm	Pb ppm	Zn ppm	Ag ppm	Ni ppm	Co ppm	Mn ppm	Fe %	As ppm	U ppm	Au ppb	Th ppm	Sr ppm	Cd ppm	Sb ppm	Bi ppm	V ppm	Ca %	P %	La ppm	Cr ppm	Mg %	Ba ppm	Ti %	B ppm	Al %	Na %	K %	W ppm	Hg ppm	Sc ppm	Tl ppm	S %	Ga ppm	Se ppm
SI	<.1	.6	.3	1	<.1	.2	<.1	1	.03	<.5	<.1	2.1	<.1	2	<.1	<.1	<.1	<1	.08	<.001	<1	<1	<.01	2	<.001	4	<.01	.341	<.01	<.1	<.01	.1	<.1	.08	<1	<.5
SND405-19	2.7	849.2	159.5	83	6.4	2.6	9.0	1227	5.08	112.1	18.0	2968.7	5.5	45	2.0	.7	.8	8	2.24	.054	8	1.6	.47	41	.001	2	.39	.016	.25	.2	.01	1.5	.1	3.30	1	<.5
SND406-5	3.8	553.6	653.1	347	10.4	14.2	14.7	571	10.19	438.0	1.8	2494.0	2.2	6	8.3	1.2	3.3	8	.19	.041	2	8.7	.20	14	.001	2	.35	.009	.14	.1	.02	1.1	<.1	8.18	1	<.5
SND406-9	2.7	121.0	216.6	710	39.9	2.2	9.1	281	3.90	110.2	7.8	29812.7	4.3	13	21.3	.6	16.0	2	.31	.023	5	2.2	.16	32	.001	2	.22	.007	.17	.1	.06	.9	<.1	2.89	1	<.5
SND406-10	3.5	178.5	60.0	901	10.5	5.9	8.7	534	3.59	66.1	9.1	4777.9	7.4	22	35.5	.5	2.0	5	.68	.046	7	4.1	.30	44	.001	2	.36	.011	.27	.1	.05	1.2	.1	2.58	1	<.5
SND407-1	2.3	152.8	128.3	211	16.9	9.7	12.0	199	1.90	117.3	7.1	15881.2	2.5	58	4.6	45.2	6.1	6	.17	.055	11	6.8	.03	45	.002	5	.33	.010	.15	.1	.07	1.3	.1	1.39	1	<.5
SND407-2	4.4	41.1	31.9	97	.8	1.5	5.5	848	1.84	16.0	9.5	320.0	7.9	47	1.3	.4	.3	7	2.43	.045	18	<1	.24	251	<.001	6	.45	.017	.18	<.1	.01	1.6	.1	.17	1	<.5
SND407-5	3.0	877.6	203.5	62	86.3	3.4	8.6	908	7.27	150.3	5.7	34263.1	5.7	6	.9	1.3	30.6	5	.24	.027	7	2.7	.11	14	.001	<1	.27	.009	.19	.2	.01	1.4	.1	5.21	1	<.5
RE SND407-5	2.2	873.2	200.3	58	93.8	2.7	8.5	887	7.13	151.6	5.7	45710.2	5.7	6	.8	1.2	30.1	5	.21	.027	7	2.2	.10	14	.001	2	.27	.008	.19	.1	.02	1.4	.1	5.15	1	<.5
SND408-6	1.5	30.6	698.2	174	1.4	2.0	5.3	2494	3.21	24.9	9.1	224.2	4.2	14	3.0	.6	1.0	10	.20	.040	13	<1	.10	175	.001	1	.20	.007	.12	.1	.01	1.2	.9	.55	1	<.5
SND408-9	2.5	867.4	331.8	644	20.8	1.9	5.0	156	4.22	1429.0	13.0	33786.3	2.1	7	15.9	13.8	19.3	2	.07	.017	4	4.4	.02	28	<.001	1	.15	.003	.10	.2	.08	.5	.2	3.66	<1	<.5
SND409-2	1.6	46.0	3361.5	299	.9	3.7	7.0	678	1.88	919.0	16.2	337.2	7.0	17	13.4	4.6	.1	7	.19	.055	13	1.1	.06	134	.001	3	.44	.009	.22	.1	.02	1.2	5.4	.92	1	<.5
SND409-4	1.5	47.3	372.5	63	.8	2.6	7.0	159	.75	98.1	6.6	101.7	7.2	10	2.1	.7	.2	4	.25	.070	17	3.7	.05	50	.001	2	.37	.015	.23	.1	<.01	.5	1.3	.27	1	<.5
SND409-11	2.1	348.8	197.9	157	2.2	2.7	6.4	1287	4.01	59.7	8.7	5800.9	6.3	7	2.0	1.4	5.8	11	.28	.070	13	1.0	.14	30	.002	1	.45	.010	.24	.2	.02	2.5	.2	1.60	1	<.5
SND409-18	1.2	101.9	53.4	123	1.1	3.2	3.8	1268	3.33	1375.0	5.3	256.6	3.5	4	1.6	1.8	.1	6	.23	.054	6	3.9	.11	20	.001	1	.30	.005	.22	.2	<.01	1.8	.1	1.08	1	<.5
STANDARD DS6	11.3	119.7	29.7	144	.3	24.3	10.4	689	2.73	19.8	6.7	44.1	3.1	37	6.0	3.5	5.0	55	.83	.070	14	177.9	.55	161	.077	15	1.85	.066	.14	3.5	.23	3.2	1.7	<.05	6	4.3

GROUP 1DX - 0.50 GM SAMPLE LEACHED WITH 3 ML 2-2-2 HCL-HNO3-H2O AT 95 DEG. C FOR ONE HOUR, DILUTED TO 10 ML, ANALYSED BY ICP-MS.
(>) CONCENTRATION EXCEEDS UPPER LIMITS. SOME MINERALS MAY BE PARTIALLY ATTACKED. REFRACTORY AND GRAPHITIC SAMPLES CAN LIMIT AU SOLUBILITY.
- SAMPLE TYPE: CORE R150 60C Samples beginning 'RE' are Reruns and 'RRE' are Reject Reruns.

Data___ FA ____ DATE RECEIVED: NOV 1 2004 DATE REPORT MAILED: Dec 7/04

BRITISH COLUMBIA CERTIFIED ASSAYER
Clarence Leong

ACME ANALYTICAL LABORATORIES LTD. 852 E. HASTINGS ST. VANCOUVER BC V6A 1R6 PHONE(604)253-3158 FAX(604)253-1716
(ISO 9002 Accredited Co.)

ASSAY CERTIFICATE

Almaden Minerals Ltd. PROJECT ELK04-12 File # A406852

1103 - 750 W. Pender St., Vancouver BC V6C 2T8

SAMPLE#	S.Wt gm	NAg mg	-Ag gm/mt	DupAg gm/mt	TotAg gm/mt
SI	-	<.06	<2	-	<2
SND405-19	1100	<.06	9	-	9
SND406-5	1037	<.06	11	-	11
SND406-9	1183	<.06	43	-	43
SND406-10	1076	<.06	13	-	13
SND407-1	507	<.06	18	-	18
SND407-2	1091	.52	<2	-	<2
SND407-5	570	<.06	95	100	95
SND408-6	1115	.49	<2	-	2
SND408-9	844	<.06	22	-	22
SND409-2	1029	.22	<2	-	<2
SND409-4	623	.31	<2	-	<2
SND409-11	1095	<.06	2	-	2
SND409-18	778	.31	<2	-	<2
STANDARD R-2a	-	<.06	155	-	155

-AG : -150 AG BY FIRE ASSAY FROM 1 A.T. SAMPLE. DUPAG: AG DUPLICATED FROM -150 MESH. NAG - NATIVE SILVER, TOTAL SAMPLE FIRE ASSAY.
- SAMPLE TYPE: CORE R150 60C

Data___ FA ___ DATE RECEIVED: NOV 1 2004 DATE REPORT MAILED: Dec 7/04

BRITISH COLUMBIA CERTIFIED ASSAYER
C.L
Clarence Leong

ACME ANALYTICAL LABORATORIES LTD. 852 E. HASTINGS ST. VANCOUVER BC V6A 1R6 PHONE(604)253-3158 FAX(604)253-1716
(ISO 9002 Accredited Co.)

ASSAY CERTIFICATE

Almaden Minerals Ltd. PROJECT ELK04-12 File # A406852
1103 - 750 W. Pender St., Vancouver BC V6C 2T8

SAMPLE#	S.Wt gm	NAu mg	-Au gm/mt	DupAu gm/mt	TotAu gm/mt
SI	-	<.01	<.01	-	<.01
SND405-19	1100	<.01	3.86	-	3.86
SND406-5	1037	.03	2.03	-	2.06
SND406-9	1183	1.22	29.38	-	30.41
SND406-10	1076	.27	5.91	-	6.16
SND407-1	507	.01	14.05	-	14.07
SND407-2	1091	<.01	.33	-	.33
SND407-5	570	1.59	33.85	36.40	36.64
SND408-6	1115	.01	.31	-	.32
SND408-9	844	1.73	36.50	-	38.55
SND409-2	1029	.01	.42	-	.43
SND409-4	623	<.01	.13	-	.13
SND409-11	1095	.63	2.66	-	3.24
SND409-18	778	.20	.39	-	.65
STANDARD AU-1	-	<.01	3.43	-	3.43

-AU : -150 AU BY FIRE ASSAY FROM 1 A.T. SAMPLE. DUPAU: AU DUPLICATED FROM -150 MESH. NAU - NATIVE GOLD, TOTAL SAMPLE FIRE ASSAY.
- SAMPLE TYPE: CORE R150 60C

Data___ FA 4/05 DATE RECEIVED: NOV 1 2004 DATE REPORT MAILED: Dec 7/04

BRITISH COLUMBIA CERTIFIED ASSAYER
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Clarence Leong

ACME ANALYTICAL LABORATORIES LTD. 852 E. HASTINGS ST. VANCOUVER BC V6A 1R6 PHONE(604)253-3158 FAX(604)253-1716
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GEOCHEMICAL ANALYSIS CERTIFICATE

Almaden Minerals Ltd. PROJECT ELK04-12 File # A406853 Page 1

1103 - 750 W. Pender St., Vancouver BC V6C 2T8

SAMPLE#	Au* ppb
SI	.2
SND405-1	4550.8
SND405-5	606.6
SND405-6	246.1
SND405-8	101.4
SND405-10	209.8
SND405-13	1.8
SND405-14(PULP)	33933.9
SND405-18	9.4
SND405-20	4.3
SND405-21	29.2
SND405-22	2.2
SND405-24	4.1
SND406-1	45.0
SND406-3	117.9
SND406-6	2132.4
SND406-8	1.7
RE SND406-8	1.4
RRE SND406-8	9.8
SND406-11	1.3
SND408-4	2.1
SND408-5(PULP)	33612.5
SND408-8	12.3
SND408-10	25.6
SND408-11	30.8
SND409-3	3.6
SND409-6	93.2
SND409-7	97.5
SND409-8	1.4
SND409-9(PULP)	10630.2
SND409-10	335.3
SND409-14	947.5
SND409-15	7.6
SND409-16	180.7
STANDARD AU-R2	566.2

AU* IGNITED, ACID LEACHED, ANALYSIS BY ICP-MS. (30 gm)
- SAMPLE TYPE: CORE R150 60C
Samples beginning 'RE' are Reruns and 'RRE' are Reject Reruns.

Data FA

DATE RECEIVED: NOV 1 2004 DATE REPORT MAILED: Nov. 24/04

BRITISH COLUMBIA CERTIFIED ASSAYER
Clarence Leong

SAMPLE#	Au* ppb
SND409-17	150.9
SND409-19	2.6
STANDARD AU-R2	559.0

Sample type: CORE R150 60C.

Data /FA

ALS Chemex
EXCELLENCE IN ANALYTICAL CHEMISTRY
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212 Brooksbank Avenue
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Phone: 604 984 0221 Fax: 604 984 0218

ALMADEN MINERALS LTD.
1103-750 W PENDER ST
VANCOUVER BC V6C 2T8

Finalized Date: 23-FEB-2005
Account: PFM

CERTIFICATE VA05011537

Project: Elk 2004

P.O. No.:

This report is for 20 Pulp samples submitted to our lab in Vancouver, BC, Canada on 18-FEB-2005.

The following have access to data associated with this certificate:

WOJTEK JAKUBOWSKI

SAMPLE PREPARATION

ALS CODE	DESCRIPTION
WEI-21	Received Sample Weight
LOG-24	Pulp Login - Rcd w/o Barcode

ANALYTICAL PROCEDURES

ALS CODE	DESCRIPTION	INSTRUMENT
Au-GRA22	Au 50 g FA-GRAV finish	WST-SIM

To: ALMADEN MINERALS LTD.
ATTN: WOJTEK JAKUBOWSKI
1103-750 W PENDER ST
VANCOUVER BC V6C 2T8

This is the Final Report and supersedes any preliminary report with this certificate number. Results apply to samples as submitted. All pages of this report have been checked and approved for release.

Signature: