

2003 DIAMOND DRILLING 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 two volumes:
Volume I: Text, Tables, Figures & Appendices
Volume II: Plates 1 to 16

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GEOLOGICAL SURVEY BRANCH
ASSESSMENT REPORT

27,597

1 of 2

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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 drill 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 trench targets between the Siwash mine site and the South Showing area 2.5 kilometres to the south. Limited prospecting and environmental monitoring was 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.

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.

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 WD vein system is located approximately 100m north of the Siwash B zone vein and has been tested over a strike length of 610m and down dip for 380m.

The results of exploration on the Elk Property are extremely encouraging. A combined indicated and inferred resource of 4,879,785 gm (156,906 oz) of gold in 147,628 tonnes (162,730 tons) was calculated after the 2002 drill program. 1,600,406 gm (51,460 oz) of gold have been extracted profitably by open pit and underground mining. Potential for the discovery of additional gold reserves in the immediate mine area remains strong in the WD vein, GCW and Bullion Creek structures. Promising vein structures are present in the Siwash East area, 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.

RECOMMENDATIONS

The following exploration program is recommended:

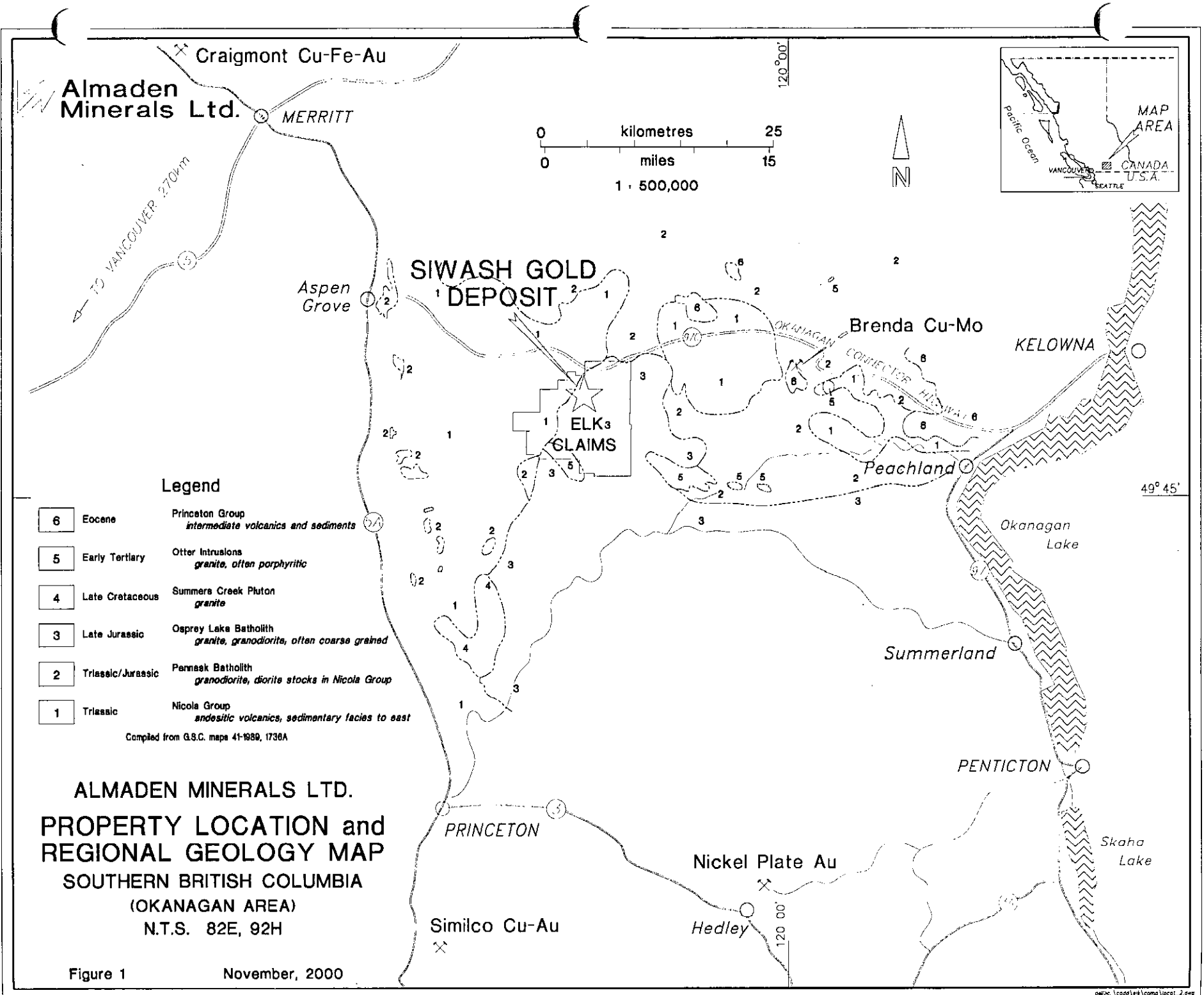
- Drill eighteen holes in the WD zone to the south and east of the existing grid to expand the present inferred resource.
- Drill seven deep holes below the existing DeepB grid to test the continuity and grade at depth.
- Drill four holes in the Siwash East area to test the continuity of mineralized quartz veins exposed by trenching.
- Drill four holes in the Bullion Creek structure to the east and west 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

ALMADEN MINERALS LTD.

A circular stamp with a dotted border is partially obscured by a handwritten signature in black ink. The signature appears to read 'Wojtek Jakubowski'.

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



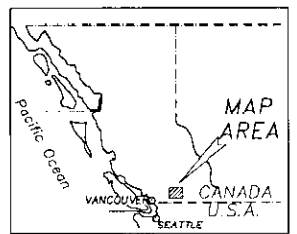
Craigmont Cu-Fe-Au

Almaden Minerals Ltd.

MERRITT

TO VANCOUVER 270km

0 25
0 15
kilometres
miles
1 : 500,000



SIWASH GOLD DEPOSIT

ELK GLAIMS

Brenda Cu-Mo

Peachland

KELOWNA

Okanagan Lake

Summerland

PENTICTON

Skaha Lake

Nickel Plate Au

Similco Cu-Au

Hedley

49° 45'

120 00'

3.0

INTRODUCTION

This report describes the results of a diamond drill program conducted on the Elk property during the period August 6 to November 1, 2003. The work was managed by personnel of Almaden Minerals Ltd. with the intent to test the continuity and gold grade in the WD 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 2002 were based out of a lodge located on the property.

3.2 CLAIM DATA (Figure 2)

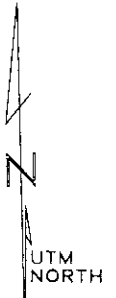
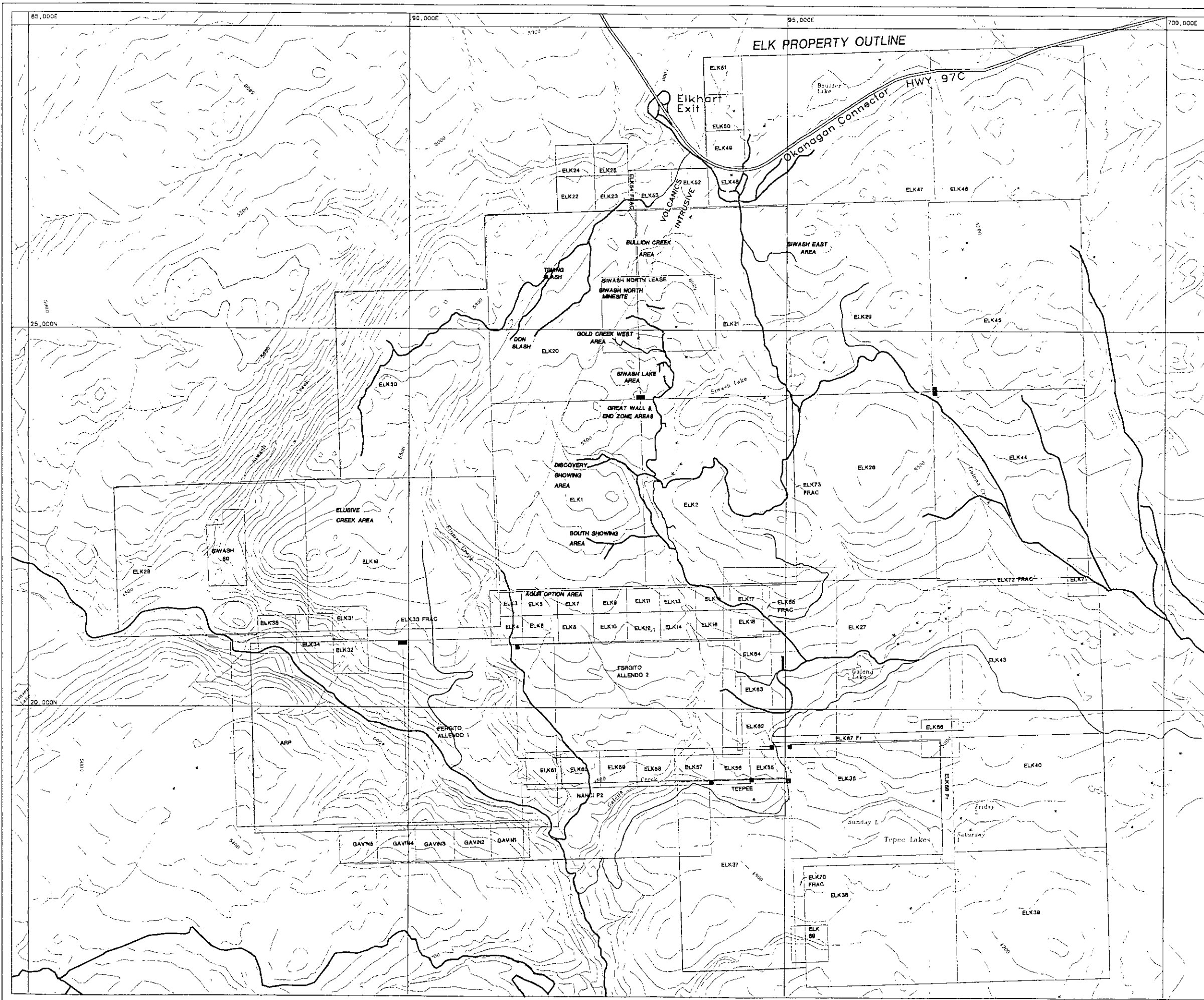
The Elk property consists of 48 two post claims, 26 four post claims, eight fractional claims and one mining lease comprising 492 units (Table 2). Expiry dates listed are subject to acceptance of costs and the program summarized in this report. Initial staking was undertaken in November 1986 (160 units) 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 that is to be implemented in 2005 in British Columbia, a program of relocating and re-establishing claim posts was initiated in 2003. The following legal corner posts were located and surveyed with a Garmin 76Map GPS, two of which were re-established as they had been destroyed during logging operations:

Table1




ELK CLAIM LOCATIONS

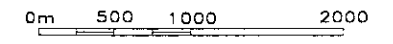
Claim	Record #	NAD 27			NAD83		Est. Error	Date Surveyed	
		East	North	Elev.	East	North			
ELK45 LCP	249510	696925	5524204	1657	696831	5524406	6.4	Sept 23 2003	
ED LCP	248600	693213	5516571	1412	693119	5516773	5.3	Sept 23 2003	
ELK20 LCP	307936	693071	5524081	1676	692977	5524283	8	Aug 15 2003	
ELK62 IP	249554	694855	5519474	1401	694761	5519676	5	Aug 16 2003	
ELK37 LCP	249396	695071	5519085	1405	694977	5519287	7.5	Aug 17 2003	
ELK36 LCP	249395	695033	5519532	1442	694939	5519734	7	Aug 17 2003	
ELK56 IP	249548	694592	5519036	1401	694498	5519238		Aug 17 2003	
ELK57 IP	249549	694076	5519013	1373	693982	5519215		Aug 17 2003	
TEEPEE LCP	248735	693995	5519064	1391	693901	5519266	5	Aug 17 2003	
GAVIN1 IP	249659	691587	5518483	1227	691492	5518685	4.5	Sept 25 2003	
NANCI P#2	248732	694021	5518064		693927	5518266		Sept 26 2003	Replacement Post
FA#1/ARP	248739	689926	5520876	1490	689832	5521078		Sept 26 2003	Replacement Post

As recorded with a Garmin Map76 GPS - not differential capable



LEGEND

-  Road
-  Creek
-  Geological Contact



ELK PROPERTY	
<small>Stikemeeen Mining Division NTS 92H/16W, B.C.</small>	
CLAIM AND AREA LOCATION MAP	
SCALE 1 : 50,000	
<small>Drawn by WJ April, 2003</small>	Figure 2
ALMADEN MINERALS LTD.	
<small>105 - 760 West Pender Street, Vancouver, British Columbia V6C 2T8</small>	

Table 2 ELK PROPERTY CLAIM SUMMARY									
Claim Name	Claim Type	#Units	Record Number	Expiry Date	Claim Name	Claim Type	#Units	Record Number	Expiry Date
ARP	4post	20	248738	1/12/13	ELK 48	2post	1	249513	1/12/13
ELK 1	4post	20	249145	1/12/13	ELK 49	2post	1	249514	1/12/13
ELK 10	2post	1	249159	1/12/13	ELK 5	2post	1	249154	1/12/13
ELK 11	2post	1	249160	1/12/13	ELK 50	2post	1	249515	1/12/13
ELK 12	2post	1	249161	1/12/13	ELK 51	2post	1	249516	1/12/13
ELK 13	2post	1	249162	1/12/13	ELK 52	2post	1	249517	1/12/13
ELK 14	2post	1	249163	1/12/13	ELK 53	2post	1	249518	1/12/13
ELK 15	2post	1	249164	1/12/13	ELK 54	FR	1	249519	1/12/13
ELK 16	2post	1	249165	1/12/13	ELK 55	2post	1	249547	1/12/13
ELK 17	2post	1	249166	1/12/13	ELK 56	2post	1	249548	1/12/13
ELK 18	2post	1	249167	1/12/13	ELK 57	2post	1	249549	1/12/13
ELK 19	4post	20	249147	1/12/13	ELK 58	2post	1	249550	1/12/13
ELK 2	4post	20	249146	1/12/13	ELK 59	2post	1	249551	1/12/13
ELK 20	4post	20	307936	1/12/13	ELK 6	2post	1	249155	1/12/13
ELK 21	4post	20	307937	1/12/13	ELK 60	2post	1	249552	1/12/13
ELK 22	2post	1	249168	1/12/13	ELK 61	2post	1	249553	1/12/13
ELK 23	2post	1	249169	1/12/13	ELK 62	2post	1	249554	1/12/13
ELK 24	2post	1	249170	1/12/13	ELK 63	2post	1	249555	1/12/13
ELK 25	2post	1	249171	1/12/13	ELK 64	2post	1	249556	1/12/13
ELK 26	4post	20	249150	1/12/13	ELK 65	FR	1	249557	1/12/13
ELK 27	4post	20	249151	1/12/13	ELK 66	2post	1	249558	1/12/13
ELK 28	4post	20	249254	1/12/13	ELK 67	FR	1	249559	1/12/13
ELK 29	4post	20	249255	1/12/13	ELK 68	FR	1	249560	1/12/13
ELK 3	2post	1	249152	1/12/13	ELK 69	2post	1	249561	1/12/13
ELK 30	4post	20	249256	1/12/13	ELK 7	2post	1	249156	1/12/13
ELK 31	2post	1	249330	1/12/13	ELK 70	FR	1	249562	1/12/13
ELK 32	2post	1	249331	1/12/13	ELK 71	2post	1	249563	1/12/13
ELK 33	FR	1	249363	1/12/13	ELK 72	FR	1	249564	1/12/13
ELK 34	2post	1	249367	1/12/13	ELK 73	FR	1	249885	1/12/13
ELK 35	2post	1	249366	1/12/13	ELK 8	2post	1	249157	1/12/13
ELK 36	4post	12	249395	1/12/13	ELK 9	2post	1	249158	1/12/13
ELK 37	4post	15	249396	1/12/13	FERGITO ALLENDO1	4post	20	248739	1/12/13
ELK 38	4post	16	249469	1/12/13	FERGITO ALLENDO2	4post	18	248740	1/12/13
ELK 39	4post	16	249470	1/12/13	GAVIN 1	2post	1	249659	1/12/13
ELK 4	2post	1	249153	1/12/13	GAVIN 2	2post	1	249660	1/12/13
ELK 40	4post	12	249471	1/12/13	GAVIN 3	2post	1	249661	1/12/13
ELK 43	4post	16	249472	1/12/13	GAVIN 4	2post	1	249662	1/12/13
ELK 44	4post	20	249509	1/12/13	GAVIN 5	2post	1	249663	1/12/13
ELK 45	4post	20	249510	1/12/13	NANCI P2	4post	10	248732	1/12/13
ELK 46	4post	16	369415	1/12/13	SMWASH #50	4post	2	248927	1/12/13
ELK 47	4post	20	249512	1/12/13	SMWASH NORTH	lease	1	308695	9/14/03
					TEEPEE	4post	2	248735	1/12/13
					Total:		492		

3.3 HISTORY

During the first half of the 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, 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. Trenches were excavated in the South Showing, Siwash North and Siwash Lake areas for a total of 2223 linear metres of bedrock exposure in 25 trenches and stripped areas. 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 totaling 752m tested the down dip continuity of this system.

During 1990 a total of 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 samples were collected on southern Elk claims. Magnetometer and VLF-EM surveys were carried out on the Agur Option area on flagged lines 100m apart for a total of 50 line km.

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 during previous seasons work. The drill core was logged at 1:50 and 1:100 scales, photographed and sampled. All core is stored on site. 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 in 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) grading 137.7 gm/t (4.016 oz/t) gold. A small crushing/sampling plant was installed for ore grade control.

Ore 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.

Ore 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 ore 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 off 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 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 totaling 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 totaling 4,645 metres. In the Lake Zone area, 7 holes totaling 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, totaling 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 for a total of 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 and 564.39m with poor results. Four holes totalling 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 holes totalling 556.87m of NQ core. 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 367 samples.

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 tested the WD, B Zone and Gold Creek vein systems for a total of 1413.96m. 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 projected veins were intersected and a new resource estimate will be calculated. The Gold Creek West vein located approximately 450m southwest of the existing open pit was drilled in 1996. Five holes were drilled in 2000 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° on sections 1750E and 1700E to -60 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 tested the WD, B Zone, Gold Creek West and Bullion Creek vein systems for a total of 4996m. Seven holes were drilled into the WD zone to test the perimeter 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 test 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.

3.4 2003 EXPLORATION PROGRAM

The 2003 exploration program on the Elk claims consisted of diamond drilling, core logging and sampling. 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. The WD vein system is located approximately 100m north of the Siwash B zone and has been tested over a strike length of 610m and down dip for 380m. 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.

4.0

DIAMOND DRILLING4.1 INTRODUCTION

Surface diamond drilling was carried out on the Siwash North Mining Lease between August 6 and November 1, 2003. A total of 6570.56m of drilling in 30 NQ holes tested the WD Zone between 2110E and 2620E and to a depth of 380m below surface. All holes were drilled on 50 and 25m centers. All drilling was performed by Leclerc Drilling Ltd. of Cranbrook, B.C. using skid-mounted Longyear 38 and Longyear 56 drills. Drill hole locations and depths are summarized in Table 3.

Table 3 ELK PROPERTY 2003 DRILL SUMMARY

HOLE NO	DATE START	DATE FINISH	SECTION	COLLAR NORTH	COLLAR EAST	COLLAR ELEV	DEPTH
SND03336	06-Aug-03	08-Aug-03	2370E	3480.66	2373.08	1628.35	213.36
SND03337	08-Aug-03	14-Aug-03	2420E	3420.42	2419.54	1632.28	263.96
SND03338	15-Aug-03	18-Aug-03	2470E	3416.98	2469.78	1637.57	323.70
SND03339	19-Aug-03	25-Aug-03	2520E	3416.87	2519.92	1646.31	353.57
SND03340	26-Aug-03	04-Sep-03	2570E	3430.47	2569.66	1650.84	306.94
SND03341	05-Sep-03	11-Sep-03	2570E	3426.29	2570.10	1650.92	99.67
SND03342	11-Sep-03	15-Sep-03	2570E	3392.95	2569.82	1650.23	332.23
SND03343	15-Sep-03	20-Sep-03	2620E	3412.70	2621.02	1651.10	322.17
SND03344	21-Sep-03	24-Sep-03	2620E	3575.57	2619.31	1636.22	134.11
SND03345	25-Sep-03	27-Sep-03	2670E	3574.55	2669.58	1635.16	148.13
SND03346	28-Sep-03	30-Sep-03	2670E	3525.49	2669.65	1643.42	186.23
SND03347	30-Sep-03	07-Oct-03	2670E	3485.34	2670.52	1646.78	232.56
SND03348	07-Oct-03	10-Oct-03	2260E	3452.37	2257.94	1631.00	169.77
SND03349	08-Oct-03	11-Oct-03	2670E	3450.40	2670.26	1648.74	276.15
SND03350	10-Oct-03	11-Oct-03	2210E	3515.53	2211.64	1628.66	99.97
SND03351	11-Oct-03	15-Oct-03	2670E	3408.54	2670.69	1650.09	320.04
SND03352	12-Oct-03	13-Oct-03	2160E	3485.42	2160.39	1629.28	103.94
SND03353	13-Oct-03	14-Oct-03	2110E	3478.16	2107.07	1647.50	108.20
SND03354	14-Oct-03	18-Oct-03	2370E	3398.01	2373.69	1643.21	305.41
SND03355	16-Oct-03	20-Oct-03	2670E	3364.90	2670.04	1648.43	375.21
SND03356	18-Oct-03	20-Oct-03	2420E	3468.84	2417.82	1634.35	249.02
SND03357	21-Oct-03	22-Oct-03	2420E	3358.47	2416.78	1630.28	75.29
SND03358	20-Oct-03	26-Oct-03	2670E	3370.39	2622.30	1651.25	365.15
SND03359	22-Oct-03	22-Oct-03	2420E	3358.53	2416.21	1630.28	72.54
SND03360	22-Oct-03	25-Oct-03	2445E	3501.70	2445.11	1637.21	230.73
SND03361	25-Oct-03	26-Oct-03	2445E	3555.40	2448.43	1634.12	160.63
SND03362	26-Oct-03	27-Oct-03	2495E	3528.14	2494.19	1641.52	174.04
SND03363	26-Oct-03	29-Oct-03	2545E	3539.54	2544.82	1643.51	142.34
SND03364	28-Oct-03	01-Nov-03	2545E	3503.73	2493.76	1643.00	221.59
SND03365	28-Oct-03	01-Nov-03	2495E	3502.66	2545.07	1646.28	203.91
Total:							6570.56

4.2 DRILLING OPERATIONS

All holes in the 2003 drill program were located on fences south of the mineralized WD zone surface exposures and drilled to the north. The drill holes were spaced at 50 meter intervals except for sections 2445E, 2495E and 2595E which were 25 meter fill-in fences set to confirm grade and structural continuity through the high grade center of the WD zone. All holes with the exception of hole SND03-341, 357 and 359 were drilled to completion and intersected their targets. Hole SND03-341 was terminated due to excessive deviation. Holes 357 and 359 were not completed due to stuck rods.

Drill sites were leveled and prepared using a Caterpillar 325LC excavator contracted from Elkhart Lodge Limited and a Caterpillar D5 tractor supplied by Leclerc Drilling Ltd. of Cranbrook, B.C. 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. All the drill sites were located within the existing clearcut and no logging or road construction was required.

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.

Drill hole orientations were measured at surface with a Brunton compass, and down-hole with a Sperry-Sun single shot camera. 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 Leica TCR703 theodolite equipped with an EDM.

4.3 DRILLING RESULTS

Thirty NQ diamond drill holes drilled between August 6 and November 1, 2003 tested the WD Zone for a total of 6570.56m. Surface drill hole collar locations are shown on Plate 1 and listed above in Table 3. Summary drill logs, including geology and assay information for all 2003 drill holes, are included in Appendix B. Subsurface geology, sample locations and selected assays are plotted on drill sections included in Plates 3 to 16. Averaged assay results with zone intercept coordinates are listed below in Table 4.

Seven holes were drilled into the WD vein system to the west of the north-northwest trending RB fault located roughly between 2340E and 2400E. Holes SND03-357 and 359 were targeted to intercept the WD zone on the west side of the RB fault after drilling through it, however the rods bound tightly in the clay altered andesite dyke that inhabits the fault and both holes were abandoned. The WD vein(s) were intersected in both the quartz monzonite and granodiorite in all the remaining holes between sections 2110E and 2370E. A summary of the drill core sample results from all zones intersected in 2003 is listed below in Table 4. Significant values were also returned from the WD2 zone in holes SND03-348 (35.07 gm/t over a true width of 0.50m) and 354 (219.96 gm/t over a true width of 0.50m). The WD2 zone is subparallel to the WD and is located about 20 to 30m below.

Twenty five holes were drilled to the east of the RB fault between 2370E and 2670E to extend the known resource. The WD zone(s) were intersected in all holes with the exception of hole SND03-341 which was terminated before the projected intercept depth due to excessive deviation. The known zone was extended to 2670E and to a depth of 340m below surface and 380m down dip. Fill-in drilling on sections 2445E, 2495E and 2545E intersected the WD veins at the expected depth however gold grades were not as high as those found on adjacent fences. Hole SND03-360 intersected an andesite dyke at the projected location of the WD

zone and only a narrow vein was encountered there. Visible gold was noted in the WDa vein intersection in hole SND03-355 though sampling returned a value of 2.31gm/t Au.

Table 4 2003 Drill Intersection Summary

Hole	Zone	Section	From	To	SG	Tw	Au gm/t	Ag gm/t	East	North	Elevation
SND03336	WD	2375E	186.10	186.40	2.70	0.50	1.45	0.00	2373.08	3488.89	1442.29
SND03337	B	2420E	6.58	14.70	2.70	7.25	0.09	0.17	2419.75	3424.00	1623.67
SND03337	WD	2425E	253.30	253.60	2.95	1.00	28.25	125.07	2427.82	3488.29	1388.71
SND03338	A	2470E	24.55	25.60	2.70	1.10	3.81	0.00	2469.63	3423.56	1613.39
SND03338	B	2470E	11.65	32.45	2.70	17.31	1.20	0.51	2469.59	3424.62	1609.85
SND03338	C	2470E	36.02	37.12	2.70	1.10	0.22	0.00	2469.47	3426.92	1602.41
SND03338	WD	2475E	289.98	290.55	2.83	0.85	1.56	3.97	2473.85	3485.96	1356.71
SND03339	B	2520E	44.20	44.70	2.70	0.50	22.60	31.58	2520.60	3425.32	1602.68
SND03339	G	2520E	136.60	136.90	2.69	0.50	11.90	4.13	2521.75	3442.52	1512.00
SND03339	WDa	2525E	309.15	309.50	2.70	0.50	0.50	0.00	2524.52	3471.50	1341.91
SND03340	B	2570E	41.35	41.65	2.70	0.50	0.12	0.00	2570.31	3441.86	1610.95
SND03340	C1	2570E	50.10	50.40	2.69	0.50	24.91	7.12	2570.61	3444.25	1602.54
SND03340	WDa	2585E	267.92	268.48	2.75	1.00	11.47	35.12	2586.03	3504.34	1393.74
SND03340	WDb	2590E	286.40	286.70	2.70	0.50	0.01	0.00	2587.71	3508.28	1375.89
SND03341	D	2570E	86.25	86.92	2.70	0.60	6.86	0.00	2570.32	3445.95	1566.66
SND03341	C1	2570E	51.05	51.48	2.70	21.05	2.02	0.94	2570.12	3436.95	1600.80
SND03341	C1	2570E	51.05	51.48	2.73	0.50	78.56	38.83	2570.12	3436.95	1600.80
SND03342	B	2570E	52.00	52.30	2.66	0.50	3.60	3.93	2570.48	3407.96	1600.32
SND03342	C1	2570E	59.60	60.15	2.66	1.00	8.92	20.42	2570.64	3410.37	1592.98
SND03342	WDa	2585E	312.95	313.27	2.68	0.50	9.81	19.18	2586.02	3480.06	1350.07
SND03343	B	2620E	54.65	55.00	2.71	0.50	18.23	38.91	2620.84	3426.85	1598.14
SND03343	D	2620E	88.55	96.70	2.71	7.88	4.39	9.52	2621.79	3435.99	1565.55
SND03343	E	2620E	95.60	96.70	2.78	1.00	33.18	73.10	2622.10	3438.09	1558.41
SND03343	WDa	2630E	289.30	289.63	2.61	0.65	4.67	103.96	2629.56	3489.95	1372.38
SND03343	WDb	2630E	295.35	295.70	2.70	0.50	0.28	0.00	2629.75	3491.65	1366.57
SND03344	WDa	2620E	87.40	88.15	2.70	0.50	0.30	0.00	2620.12	3597.91	1551.34
SND03344	WDb	2620E	115.00	115.30	2.70	0.50	0.89	0.00	2620.62	3604.78	1524.85
SND03345	WD	2670E	96.20	96.50	2.70	0.50	2.58	0.00	2671.39	3599.21	1542.04
SND03346	C2	2670E	36.82	37.12	2.75	0.50	23.81	54.80	2670.03	3535.27	1607.77
SND03346	WD	2675E	152.75	153.80	2.74	1.00	15.90	87.07	2673.51	3566.81	1495.88
SND03347	A	2670E	28.13	29.25	2.70	1.10	4.17	0.00	2670.05	3492.75	1619.07
SND03347	B	2670E	33.40	33.70	2.70	1.10	4.17	0.00	2670.01	3494.00	1614.38
SND03347	WD	2670E	202.88	203.64	2.72	1.00	27.79	49.97	2670.73	3537.51	1450.35
SND03348	WD	2265E	115.55	115.90	2.70	0.50	0.78	0.00	2263.82	3506.80	1529.14
SND03348	WD2	2265E	139.23	139.55	2.82	0.50	35.09	52.76	2265.45	3517.81	1508.26
SND03349	A	2670E	38.30	38.80	2.70	0.50	3.29	0.00	2669.44	3460.27	1611.50
SND03349	B	2670E	46.80	47.18	2.70	0.50	6.07	0.00	2669.51	3462.45	1603.35
SND03349	WD	2675E	243.77	244.20	2.66	0.50	5.77	35.22	2674.83	3514.67	1413.53
SND03350	WD	2210E	66.45	66.75	2.70	0.50	2.91	0.00	2211.59	3515.75	1562.06
SND03351	B	2670E	59.58	60.04	2.70	0.50	7.74	0.00	2669.69	3423.91	1592.32
SND03351	WD	2670E	292.40	293.00	2.60	0.50	3.39	159.29	2672.35	3483.97	1367.34
SND03352	WDa	2165E	79.50	79.80	2.70	0.50	2.23	0.00	2162.87	3486.61	1549.70
SND03352	WDb	2165E	95.30	95.60	2.72	0.50	4.39	7.54	2163.48	3487.14	1533.93
SND03353	WD	2105E	87.35	87.65	2.70	0.50	0.06	0.00	2106.92	3478.25	1560.00
SND03354	WD2	2380E	274.48	274.82	3.15	0.50	219.96	354.42	2379.15	3475.42	1379.78
SND03354	WDa	2380E	228.00	228.30	2.70	0.50	0.42	0.00	2377.71	3462.60	1424.45

Hole	Zone	Section	From	To	SG	Tw	Au gm/t	Ag gm/t	East	North	Elevation
SND03354	WDb	2380E	244.50	244.80	2.70	0.50	0.16	0.00	2378.23	3467.17	1408.61
SND03355	B	2670E	71.95	72.55	2.70	1.00	4.25	0.00	2668.21	3382.81	1578.46
SND03355	D	2670E	105.10	105.40	2.70	0.50	2.57	0.00	2667.60	3390.98	1546.49
SND03355	WDa	2665E	345.20	345.63	2.68	0.50	2.36	18.19	2665.92	3450.18	1313.76
SND03355	WDb	2665E	350.30	350.60	2.68	0.50	2.80	6.25	2665.95	3451.49	1308.90
SND03356	WD	2420E	222.60	222.85	2.69	0.50	2.02	50.17	2419.05	3517.41	1417.02
SND03357	Ba	2420E	35.50	43.80	2.70	8.14	2.22	0.70	2417.07	3368.34	1592.66
SND03357	Bb	2415E	43.50	43.80	2.70	0.50	29.84	11.39	2417.14	3369.52	1588.06
SND03358	B	2620E	70.30	70.60	2.63	0.50	8.51	3.99	2621.97	3388.62	1583.20
SND03358	D	2620E	99.30	100.30	2.62	1.00	7.18	23.36	2622.18	3396.26	1554.74
SND03358	WDa	2625E	337.38	337.70	2.74	1.20	11.88	36.64	2623.90	3458.29	1325.42
SND03358	WDb	2625E	348.30	348.85	2.70	0.50	0.33	0.00	2624.11	3461.40	1314.84
SND03360	G	2445E	71.30	71.60	2.70	0.50	2.62	0.00	2445.59	3517.56	1567.55
SND03360	WD	2445E	175.53	175.83	2.70	0.50	0.12	0.00	2445.62	3540.50	1465.88
SND03361	WDa	2450E	98.70	99.30	2.69	0.50	0.99	7.72	2449.11	3578.56	1537.89
SND03361	WDb	2450E	102.30	102.95	2.64	0.50	0.75	1.91	2449.19	3579.37	1534.36
SND03361	WDc	2450E	119.50	119.80	2.74	0.50	11.06	7.77	2449.57	3583.18	1517.77
SND03362	WD	2495E	149.30	149.86	2.71	0.60	8.18	19.06	2496.32	3566.09	1496.88
SND03362	WDa	2495E	136.70	137.00	2.70	0.50	1.71	4.04	2496.06	3562.98	1509.22
SND03363	C1	2545E	13.30	13.60	2.70	0.50	5.59	0.00	2544.94	3543.05	1630.52
SND03363	D1	2545E	22.13	22.95	2.70	1.00	4.72	0.00	2545.13	3545.46	1621.77
SND03363	D2	2545E	37.50	37.80	2.68	1.20	5.68	1.36	2545.62	3549.52	1607.23
SND03363	WD	2550E	124.00	124.30	2.64	0.50	1.40	63.98	2550.64	3572.27	1523.95
SND03364	C	2495E	25.40	25.75	2.70	0.50	2.32	0.00	2493.88	3509.07	1617.99
SND03364	WD	2500E	196.70	197.70	2.76	0.80	16.14	44.40	2500.55	3541.42	1449.62
SND03365	B	2545E	21.85	22.20	2.70	0.50	2.53	0.00	2545.01	3508.39	1625.02
SND03365	WD	2550E	172.20	173.05	2.71	1.10	10.09	21.73	2548.30	3548.81	1479.99

5.0

GEOCHEMISTRY

5.1 INTRODUCTION

A total of 678 drill core samples were collected from 30 holes on the Elk claims during the 2003 field season. These samples included 31 blanks and 31 duplicates. Twenty-three standard samples were also sent to the lab to confirm analytical integrity. Core samples were assayed or analyzed for gold depending on visual estimation of potential gold grade.

5.2 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 metallica 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 30 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 then 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 metallica 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 geochemical 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

RE-ASSAYED SAMPLE
SUMMARY

Hole No.	From	To	Sample No.	Au Wet Geochemistry	Au Fire Assay	Au Metallics Assay	% Variability
SND03338	11.65	12.00	SND03338-1	21600	0.745		18.25%
SND03338	32.15	32.45	SND03338-7	23260	0.871		28.39%
SND03338	32.15	32.45	SND03338-8	49470		0.999	-30.76%
SND03339	136.60	136.90	SND03339-27		0.669	0.639	-4.48%
SND03340	50.10	50.40	SND03340-4	53864		1.011	-35.65%
SND03340	50.10	50.40	SND03340-5	51080		1.235	-17.10%
SND03341	51.05	51.48	SND03341-7	98165		2.703	-5.59%
SND03342	52.00	52.30	SND03342-1	19221	0.233		-58.44%
SND03342	59.60	60.15	SND03342-2	22228	0.494		-23.80%
SND03342	59.60	60.15	SND03342-3	57120		0.811	-51.32%
SND03343	54.65	55.00	SND03343-1	49220		0.765	-46.71%
SND03343	95.60	96.70	SND03343-10		1.875	1.014	-45.92%
SND03345	96.20	96.50	SND03345-9	4298	0.129		2.91%
SND03346	36.82	37.12	SND03346-8	14689	0.664		54.99%
SND03346	36.82	37.12	SND03346-9	34330		1.162	16.05%
SND03347	67.00	67.40	SND03347-10	12356	0.325		-9.82%
SND03347	202.88	203.64	SND03347-18	43439		1.294	2.13%
SND03348	159.60	160.00	SND03348-6	24082	0.290		-58.71%
SND03350	66.45	66.75	SND03350-7	5727	0.189		13.15%
SND03352	79.50	79.80	SND03352-5	5246	0.159		3.92%
SND03352	95.30	95.60	SND03352-6	11865	0.511		47.66%
SND03355	71.95	72.55	SND03355-4	6816	0.227		14.19%
SND03357	43.50	43.80	SND03357-7	40096		1.467	25.44%
SND03358	70.30	70.60	SND03358-6	14665	0.422		-1.34%
SND03359	43.40	43.90	SND03359-13	57358		0.678	-59.47%
SND03361	119.50	119.80	SND03361-17	25997	0.565		-25.48%
SND03363	37.50	37.80	SND03363-6	22553	0.466		-29.16%
SND03365	44.30	44.60	SND03365-8	15670	0.157		-65.65%
						Average:	-12.23%

Raw assay data is presented in Appendix A.

5.3 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.

5.4 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 5 shows the results of the duplicate analyses. The variability of the 2003 values ranges from 0% to 194% with an average of 35% indicating a significant nugget effect.

Table 6 DRILL DUPLICATE SAMPLE SUMMARY

DUPLICATES		Geochemistry				Assay	
Orig	Dupl	Sample Au ppb	Duplicate Au ppb	Average	% Variability	Sample Au gm/t	Duplicate Au gm/t
Eik 2003							
SND03337-5	SND03337-6	889	1401.9	1145.5	22.4%		
SND03337-26	SND03337-27	25.6	32.5	29.1	11.9%		
SND03338-7	SND03338-8	23260	49470	36365.0	36.0%		
SND03338-27	SND03338-28	3	3	3.0	0.0%		
SND03339-18	SND03339-19	72	93.4	82.7	12.9%		
SND03339-39	SND03339-40	345.4	33.3	189.4	82.4%		
SND03339-58	SND03339-59	1346.5	591.5	969.0	39.0%		
SND03341-3	SND03341-4	178.9	213.5	196.2	8.8%		
SND03342-2	SND03342-3	22228.1	57120	39674.1	44.0%		
SND03342-22	SND03342-23				193.9%	0.033	0.097
SND03343-14	SND03343-15	30.5	14.9	22.7	34.4%		
SND03345-3	SND03345-4	767	685.5	726.3	5.6%		
SND03346-8	SND03346-9	14688.9	34330	24509.5	40.1%		
SND03347-10	SND03347-11	12355.8	1332.2	6844.0	80.5%		
SND03349-9	SND03349-10	964.5	407.1	964.5	0.0%		
SND03349-29	SND03349-30	24.7	26.1	25.4	2.8%		
SND03351-14	SND03351-15	352.2	147.6	249.9	40.9%		
SND03351-34	SND03351-35	1870	1259	1564.5	19.5%		
SND03352-2	SND03352-3	123	136	129.5	5.0%		
SND03354-13	SND03354-14	33.3	18.7	26.0	28.1%		
SND03354-33	SND03354-34				18.3%	0.071	0.084
SND03355-11	SND03355-12	115.7	60.4	88.1	31.4%		
SND03355-31	SND03355-32	50.2	51.3	50.8	1.1%		
SND03356-18	SND03356-19	165.5	178.8	172.2	3.9%		
SND03358-9	SND03358-10			0.7	197.0%	0.01	0.01
SND03358-29	SND03358-30	849.9	341.3	595.6	42.7%		
SND03359-6	SND03359-7	5	4.8	4.9	2.0%		
SND03361-2	SND03361-3	265.5	194.5	230.0	15.4%		
SND03362-5	SND03362-6	363.1	377.4	370.3	1.9%		
SND03364-7	SND03364-8	16.8	15.9	16.4	2.8%		
SND03365-7	SND03365-8	2431.5	15669.9	9050.7	73.1%		
				Average:	35.4%		
Eik 2002							
SND02310-19	SND02310-20	78.1	103.0	90.6	13.7%		
SND02311-25	SND02311-26	51.1	69.4	60.3	15.2%		
SND02311-45	SND02311-46	77.2	29.4	53.3	44.8%		

DUPLICATES		Geochemistry				Assay	
Orig	Dupl	Sample Au ppb	Duplicate Au ppb	Average	% Variability	Sample Au gm/t	Duplicate Au gm/t
SND02312-10	SND02312-11	185.0	174.0	179.5	3.1%		
SND02313-16	SND02313-17	123.1	219.7	171.4	28.2%		
SND02315-5	SND02315-6	121.8	64.8	93.3	30.5%		
SND02317-2	SND02317-3	381.4	488.9	435.2	12.4%		
SND02318-2	SND02318-3	112.4	61.7	87.1	29.1%		
SND02319-3	SND02319-4	23.3	29.7	26.5	12.1%		
SND02321-1	SND02321-2	0.6	0.8	0.7	14.3%		
SND02323-5	SND02323-6	6.4	7.2	6.8	5.9%		
SND02325-3	SND02325-4	87.3	118.7	103.0	15.2%		
SND02325-25	SND02325-26	2.1	3.2	2.7	20.8%		
SND02326-5	SND02326-6	14.4	32.3	23.4	38.3%		
SND02327-9	SND02327-10	16.1	111.3	63.7	74.7%		
SND02329-5	SND02329-6	10.8	3.7	7.3	49.0%		
SND02330-3	SND02330-4	40.3	117.7	79.0	49.0%		
SND02331-12	SND02331-13	11.6	4.4	8.0	45.0%		
SND02332-5	SND02332-6	21.7	27.2	24.5	11.2%		
SND02332-25	SND02332-26	16010.0	7371.2	11690.6	36.9%	18.97	9.32
SND02334-4	SND02334-5	399.8	344.1	372.0	7.5%		
SND02334-24	SND02334-25	29.3	16.9	23.1	26.8%		
SND02335-3	SND02335-4	1443.0		1443.0	0.0%	2.37	
SND02335-23	SND02335-24				64.3%	1.68	2.76
Average:					27.0%		
Eik 2000							
SND00298-19	SND00298-20	3	27.3	15.2	80.2%		
SND00298-39	SND00298-40	36.5	67.2	51.9	29.6%		
SND00299-18	SND00299-19	90.9	30.9	60.9	49.3%		
SND00299-38	SND00299-39	722.7	543.9	633.3	14.1%		
SND00300-5	SND00300-6				-16.3%	0.86	0.72
SND00301-6	SND00301-7	68.7	39.3	54.0	27.2%		
SND00302-4	SND00302-5				86.9%	12.67	23.68
SND00303-9	SND00303-10	47	43.5	45.3	3.9%		
SND00304-4	SND00304-5	206.8	189.3	198.1	4.4%		
SND00308-3	SND00308-4				-14.3%	0.70	0.60
SND00309-16	SND00309-17	13.1	5.4	9.3	41.6%		
Average:					27.3%		

Blank samples were submitted to the lab at the same frequency as the duplicates. The blanks were taken from unaltered granodiorite or quartz monzonite 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, the blanks indicate that contamination is not an issue. The results are shown in Table 7.

Drill Blank Sample Summary

Table 7

Samp#	Au ppb	Samp#	Au ppb
SND02310-21	5.3	SND03337-28	9.8
SND02311-27	3.8	SND03337-7	9.6
SND02311-47	3.3	SND03338-29	1
SND02312-12	12.0	SND03338-9	75
SND02313-18	6.2	SND03339-20	3.8
SND02315-7	5.2	SND03339-41	0.5
SND02317-4	14.0	SND03339-60	5.2
SND02318-4	7.1	SND03341-5	-0.2
SND02319-5	1.6	SND03342-24	2.2
SND02321-4	0.2	SND03342-4	35
SND02323-7	1.4	SND03343-16	3.9
SND02325-5	7.7	SND03345-5	5.4
SND02325-27	0.1	SND03346-10	416.2
SND02326-7	4.9	SND03347-12	11.7
SND02327-11	5.6	SND03349-11	5
SND02329-7	1.3	SND03349-31	1.9
SND02330-5	4.6	SND03351-16	2.3
SND02331-14	1.3	SND03351-36	9.7
SND02332-7	3.4	SND03352-4	0.7
SND02332-27	15.9	SND03354-15	1.5
SND02334-6	1.0	SND03354-35	3
SND02334-26	3.6	SND03355-13	7
SND02335-5	12.0	SND03355-33	0.3
SND02335-25	1.6	SND03356-20	10.5
		SND03358-11	62.3
SND00298-21	0.8	SND03358-31	16.1
SND00298-41	4.4	SND03359-8	2
SND00299-20	0.9	SND03361-4	17.9
SND00299-40	2.9	SND03362-7	14.7
SND00300-7	3.7	SND03364-9	5.6
SND00301-8	8.9	SND03365-9	17.7
SND00302-6	36.6		
SND00303-11	0.5		
SND00304-6	9.8		
SND00308-5	0.4		
SND00309-18	0.3		

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.

Table 8

DRILL SAMPLE RERUN SUMMARY

SAMPLE#	<i>Wet Geochem</i>					<i>Fire Assay</i>				
	Sample	RE	RRE	Average	% Variability	Sample	RE	RRE	Average	% Variability
	Au ppb	Au ppb	Au ppb			Au gm/t	Au gm/t	Au gm/t		
SND02310-22	22.0	17.4	17.8	19.1	15.4%					
SND02311-20	61.0	63.3	59.4	61.2	3.4%					
SND02311-40	324.0	376.0	371.0	357.0	9.2%					
SND02312-14	62.1	58.8	55.7	58.9	5.5%					
SND02313-27	20.0	16.0	15.6	17.2	16.3%					
SND02316-8	1376.7	1700.5	670.5	1249.2	46.3%					
SND02318-10	12000.0	7900.0		9950.0	20.6%					
SND02319-13	132.8	47.0	43.8	74.5	78.2%					
SND02322-5	119.6	102.6	58.2	93.5	37.7%					
SND02325-28	1531.0	1254.0		1392.5	9.9%					
SND02325-28						2.19	2.08		2.14	2.6%
SND02324-8	101.6	116.8	201.9	140.1	44.1%					
SND02325-30	102.7	114.0	170.2	129.0	32.0%					
SND02326-10	43.3	31.6	25.3	33.4	29.6%					
SND02329-6	3.7	2.3	3.2	3.1	25.0%					
SND02331-10	192.0	154.7	162.9	169.9	13.0%					
SND02333-5	29.7	28.5	39.7	32.6	21.7%					
SND02333-5						0.04	0.04	0.05	0.04	15.4%
SND02332-20	1163.4	1089.0	671.0	974.5	31.1%					
SND02335-12	844.8	726.3	1226.1	932.4	31.5%					
SND02335-12						1.42	1.08	3.12	1.87	66.5%
SND02334-20	42.4	41.0	54.3	45.9	18.3%					

SAMPLE#	<i>Wet Geochem</i>					<i>Fire Assay</i>				
	Sample	RE	RRE	Average	% Variability	Sample	RE	RRE	Average	% Variability
	Au ppb	Au ppb	Au ppb			Au gm/t	Au gm/t	Au gm/t		
SND00298-10	2743.3	4672.1	3220.3	3545.2	31.8%					
SND00298-23	10.7	5.8	4.4	7.0	53.6%					
SND00299-8						0.06	0.08	0.06	0.07	20.0%
SND00299-10	32.7	34.4	44.8	37.3	20.1%					
SND00299-24	5120.6	5439.7	6642.2	5734.2	15.8%					
SND00299-41	362.9	294.4	273.7	310.3	16.9%					
SND00299-24						6.50	6.05		6.28	3.6%
SND00300-2	38.6	33.2	86.3	52.7	63.8%					
SND00300-19	18516.2	13624.4	8215.5	13452.0	38.9%					
SND00301-18	712	1048.7	11030.3	4263.7	158.7%					
SND00302-2						3.79	5.02		4.41	14.0%
SND00302-5						23.68	25.90	24.58	24.72	4.8%

SAMPLE#	Sample RE			Average	% Variability	Sample RE			Average	% Variability
	Au ppb	Au ppb	Au ppb			Au gm/t	Au gm/t	Au gm/t		
SND00302-9	27.3	51.9	26.3	35.2	47.6%					
SND00303-16	1.5	1.5	1.4	1.5	4.5%					
SND00305-5	12.8	7.7	8.3	9.6	33.3%					
SND00308-7	0.2	0.2	3.2	1.2	166.7%					
SND00309-18	0.3	0.3	0.6	0.4	50.0%					
SND00309-30	101.3	98.6	76	92.0	17.4%					
				Average:	36.6%			Average:	18.1%	

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. One standard sample (SNSTD-15) was blended with equal parts of the 9.9 and 33.5 gm/t Au standards to introduce an unexpected variable into the series. 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 #
SNSTD-1			10.19	0.00%	Fire Assay	9.9+- .5 gm/t	ELK03-3
SNSTD-2	37864.5	7.57%			Wet geochem	33.5+-1.7gm/t	ELK03-3
SNSTD-3			34.08	0.00%	Fire Assay	33.5+-1.7gm/t	ELK03-4
SNSTD-4	10285.6	0.00%			Wet Geochem	9.9+- .5 gm/t	ELK03-4
SNSTD-5			34.16	0.00%	Fire Assay	33.5+-1.7gm/t	ELK03-5
SNSTD-6	9970.3	0.00%			Wet Geochem	9.9+- .5 gm/t	ELK03-5
SNSTD-7			34.58	0.00%	Fire Assay	33.5+-1.7gm/t	ELK03-5
SNSTD-8	10432.6	0.31%			Wet Geochem	9.9+- .5 gm/t	ELK03-6
SNSTD-9			9.92	0.00%	Fire Assay	9.9+- .5 gm/t	ELK03-6
SNSTD-10	9898.8	5.31%			Wet Geochem	9.9+- .5 gm/t	ELK03-6
SNSTD-11			28.02	-11.89%	Fire Assay	33.5+-1.7gm/t	ELK03-6
SNSTD-12	33830.7	0.00%			Wet Geochem	33.5+-1.7gm/t	ELK03-6
SNSTD-13			30.11	-5.31%	Fire Assay	33.5+-1.7gm/t	ELK03-6
SNSTD-13a	31706.3	-0.29%			Wet Geochem	33.5+-1.7gm/t	ELK03-7
SNSTD-14	9977.1	0.00%			Wet Geochem	9.9+- .5 gm/t	ELK03-7
SNSTD-15			22.13	0.00%	Fire Assay	21.7+-1.5gm/t	ELK03-7
SNSTD-16			10.34	0.00%	Fire Assay	9.9+- .5 gm/t	ELK03-7
SNSTD-17	32044	0.00%			Wet Geochem	33.5+-1.7gm/t	ELK03-7
SNSTD-18			9.25		Fire Assay	9.9+- .5 gm/t	ELK03-8
SNSTD-19	33000	0.00%			Wet Geochem	33.5+-1.7gm/t	ELK03-8
SNSTD-20			30.05	-5.50%	Fire Assay	33.5+-1.7gm/t	ELK03-8
SNSTD-21	10298	0.00%			Wet Geochem	9.9+- .5 gm/t	ELK03-8
SNSTD-22			30.67	-3.55%	Fire Assay	33.5+-1.7gm/t	ELK03-8
SNSTD-23	10441.3	0.40%			Wet Geochem	9.9+- .5 gm/t	ELK03-8

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 ELK DRILL CHECK SAMPLE SUMMARY

SAMPLE #	<u>Fire Assay</u>					Avg Au gm/t	
	Acme Au gm/t	Chemex Au gm/t	Acme Blind Rerun Augm/t	Average	% Variability	x % Var	
SND03336-5	7.20	6.02	3.53	5.58	36.8%	2.05	
SND03337-2	1.20	1.08	0.94	1.07	12.4%	0.13	
SND03337-37	28.63	27.80	26.86	27.76	3.3%	0.90	
SND03339-7	22.97	21.50	26.18	23.55	11.2%	2.63	
SND03340-34	22.01	18.35	22.15	20.84	11.9%	2.49	
SND03342-1	7.99	8.11	9.15	8.42	8.7%	0.73	
SND03342-21	20.09	20.00	19.98	20.02	0.2%	0.04	
SND03343-22	6.96	6.48	7.06	6.83	5.2%	0.35	
SND03345-9	4.30	4.43	3.7	4.14	10.7%	0.44	
SND03349-27	7.85	9.07	8.11	8.34	8.7%	0.73	
SND03349-7	6.68	7.35	10.83	8.29	30.7%	2.54	
SND03350-7	5.73	6.48	6.11	6.11	6.1%	0.37	
SND03351-40	3.39	1.61	1.50	2.17	30.8%	0.67	
SND03352-5	5.25	5.54	5.48	5.42	2.2%	0.12	
SND03355-4	6.82	7.80	6.85	7.16	9.0%	0.65	
SND03355-40	6.68	5.64	4.71	5.68	17.0%	0.97	
SND03358-25	48.55	48.90	48.95	48.80	0.3%	0.15	
SND03361-8	1.27	1.27	1.19	1.24	4.3%	0.05	
SND03362-17	9.63	9.86	9.69	9.73	1.4%	0.13	
SND03364-6	17.07	17.60	17.15	17.27	1.9%	0.33	
SND03365-20	14.40	14.90	14.44	14.58	2.2%	0.32	

6.0

LIST OF PERSONNEL & CONTRATORS

PERSONNEL:	Position	Field Dates Worked
E. Balon Vancouver, B.C.	Core logger Surveyor	Sept. 5 – Sept. 16, 2003 Oct. 26 – Nov 2, 2003
R. Harwood New Denver, B.C.	Core Handler	Aug. 4 – Nov 2, 2003
W. Jakubowski Vancouver, B.C.	Geologist	Aug. 4 – Nov. 2, 2003
D. Ritcey Vancouver, B.C.	Surveyor/Geologist	Oct. 26 – Oct 31, 2003
W. Zang Kelowna, B.C.	Core Logger	Oct 7 – Oct. 30, 2003
 CONTRACTORS	 Position	 Dates Worked
Leclerc Diamond Drilling Ltd Cranbrook, B.C.	Diamond Drilling	8 men: Aug. 6 – Nov 1, 2003
Elkhart Lodge Limited Merritt, B.C.	Reclamation	1 man: Oct. 18 – 19, 2003

7.0 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 26 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 an author of this report and the supervisor of the field work conducted on the ELK mineral claims by Almaden Minerals Ltd. during the period August 4, 2003 to November 3, 2003.

ALMADEN MINERALS LTD.

A circular stamp with a dotted border is partially obscured by a handwritten signature in black ink. The signature is written in a cursive style and appears to read 'Wojtek Jakubowski'. The stamp contains some faint, illegible text.

Wojtek Jakubowski, B.Sc., P. Geo

8.0

STATEMENT OF COSTS

DIAMOND DRILLING			Rate \$	Total	
Mob Demob				\$2,000	
Logging, Site Prep	17	hr@	\$100.00	\$1,700	
Diamond Drill Holes 336-345	6570.76	m@	\$58.02	\$381,207	
Sperry Sun rental	3	mo@	\$1,030.58	\$3,092	\$387,999
SAMPLE ASSAY AND ANALYSIS			Rate \$	Total	
Drill Core Au,Ag Metallics 500gm(6)	30	smp@	\$22.74	\$682	
Drill Core Au, Ag FA1AT(8)	44	smp@	\$7.96	\$350	
Drill Core 35 el ICP(1DX)	72	smp@	\$12.73	\$917	
Drill Core Au 15gm (3A)	628	smp@	\$7.96	\$4,999	
Sample Prep	678	smp@	\$4.82	\$3,265	\$10,213
PERSONNEL			Rate \$	Total	
Geologist	137	days@	\$250.00	\$34,250	
Geologist - Core logger	24	days@	\$250.00	\$6,000	
Field Assistant - Core handler	74	days@	\$210.00	\$15,540	
Geologist - Surveyor	5	days@	\$250.00	\$1,250	
Prospector - Core Logger - Surveyor	14	days@	\$250.00	\$3,500	\$60,540
GENERAL EXPENSES			Rate \$	Total	
Equipment and supplies				\$5,000	
Accomodation & Food	203	days@	\$65.00	\$13,195	
Truck rental	90	days@	\$90.00	\$8,100	
Fuel				\$1,430	
Reclamation				\$200	
Office supplies and printing				\$1,400	
Recording fees				\$20,300	
Telephone and postage				\$1,200	
Travel				\$3,600	\$54,425
				TOTAL	\$513,177

Appendix "A"

Assay and Analytical Results from Core Samples

GEOCHEMICAL ANALYSIS CERTIFICATE



Almaden Minerals Ltd. PROJECT ELK03-1 File # A303494

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

SAMPLE#	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P	La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Hg	Sc	Tl	S	Ga	Se	Ag**	Au**
	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%	%	ppm	ppm	%	ppm	%	%	%	%	%	ppm	ppm	ppm	ppm	%	ppm	ppm	gm/mt	gm/mt
SI	.1	.6	1.1	1	<.1	.8	.1	5	.06	<.5	<.1	<.5	<.1	2	<.1	.1	<.1	<.1	.09	<.001	<.1	<.1	.01	3	.001	<.1	.01	.422	.01	<.1	<.01	<.1	<.1	.12	<.1	<.5	<.3	<.01
SND336-3	2.1	115.7	443.8	313	3.9	1.4	2.3	748	2.09	35.6	7.4	1097.9	10.8	3	7.7	.4	4.1	<.1	.07	.021	11	1.0	.03	27	.005	<.1	.21	.015	.17	.1	<.01	.4	.1	1.28	<.1	<.5	5.6	.97
SND336-5	.5	41.1	301.0	294	7.7	1.9	9.4	292	2.37	481.9	2.7	5189.5	4.8	2	5.7	.9	4.0	<.1	.07	.023	15	1.4	.03	33	.001	5	.18	.010	.16	.1	.03	.8	.1	1.85	<.1	<.5	7.8	7.33
SND337-2	1.1	314.1	99.9	69	3.0	1.5	2.8	645	4.61	225.3	4.3	480.0	7.6	3	1.2	1.3	1.7	<.1	.05	.019	9	1.2	.02	20	.002	<.1	.19	.007	.13	.2	.01	.3	.1	3.79	<.1	<.5	3.0	1.21
SND337-35	6.1	158.4	475.4	164	3.4	1.0	3.2	230	3.23	94.7	6.1	1755.0	5.1	3	3.9	.3	1.3	<.1	.08	.031	5	<.1	.04	24	<.001	<.1	.24	.006	.25	.1	.03	.2	.1	2.57	1	<.5	1.9	1.50
STANDARD	12.4	137.3	25.6	131	.3	23.5	12.3	738	2.84	18.0	5.7	43.0	2.6	51	5.7	3.4	5.9	58	.71	.104	13	179.5	.66	135	.094	16	2.01	.035	.13	4.5	.16	3.2	1.0	<.05	7	5.1	154.9	3.32

Standard is STANDARD DS5/R-2/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.
UPPER LIMITS - AG, AU, HG, W = 100 PPM; MO, CO, CD, SB, BI, TH, U & B = 2,000 PPM; CU, PB, ZN, NI, MN, AS, V, LA, CR = 10,000 PPM.
AG** & AU** BY FIRE ASSAY FROM 1 A.T. SAMPLE.
- SAMPLE TYPE: CORE R150 60C

DATE RECEIVED: AUG 15 2003

DATE REPORT MAILED: *Sept 3/03*

SIGNED BY: *C. Leong* D. TOYE, C. LEONG, J. WANG; CERTIFIED B.C. ASSAYERS

GEOCHEMICAL ANALYSIS CERTIFICATE



Almaden Minerals Ltd. PROJECT ELK03-1 File # A303495

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

SAMPLE#	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P	La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Hg	Sc	Tl	S	Ga	Se
	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%	%	ppm	ppm	%	ppm	%	%	%	%	ppm	ppm	ppm	ppm	%	ppm	ppm	
SI	.2	.9	.9	2	<.1	1.6	.1	7	.10	<.5	<.1	<.5	<.1	3	<.1	.1	.1	3	.12	<.001	<.1	1.2	.01	4	.001	3	.02	.623	.01	<.1	<.01	<.1	<.1	<.05	<.1	<.5
SND337-36	5.8	2227.1	3121.4	954	75.5	3.2	9.9	86	19.39	412.1	4.6	36247.9	2.3	2	21.1	1.2	52.3	3	.04	.012	1	5.6	.02	5	.001	2	.16	.005	.18	1.5	.09	<.1	.1	25.27	1	1.3
SND337-37	11.4	474.8	271.9	53	129.8	.8	8.1	40	8.79	119.9	8.1	48949.5	4.0	2	.8	.2	92.8	3	.07	.028	3	3.4	.01	10	<.001	1	.24	.005	.23	.5	.04	.1	.1	9.59	1	<.5
STANDARD DS5	12.0	146.5	25.2	130	.3	24.7	11.8	770	2.91	18.0	5.7	41.1	2.6	53	5.9	3.5	6.1	59	.73	.088	13	187.6	.68	145	.100	17	2.10	.035	.16	4.5	.18	3.7	1.1	<.05	7	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.
UPPER LIMITS - AG, AU, HG, W = 100 PPM; MO, CO, CD, SB, BI, TH, U & B = 2,000 PPM; CU, PB, ZN, NI, MN, AS, V, LA, CR = 10,000 PPM.
- SAMPLE TYPE: CORE M150 60C

DATE RECEIVED: AUG 15 2003

DATE REPORT MAILED: *Sept 3/03*

SIGNED BY: *C. Leong* D. TOYE, C. LEONG, J. WANG; CERTIFIED B.C. ASSAYERS

Assay recommend for Au > 1000 ppb



ASSAY CERTIFICATE



Almaden Minerals Ltd. PROJECT ELK03-1 File # A303495
 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
SND337-36	1016	<.01	79.1	79.1
SND337-37	949	1.82	133.2	135.1

-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

DATE RECEIVED: AUG 15 2003

DATE REPORT MAILED: *Sept 3/03*

SIGNED BY: *C. Leong* D. TOYE, C. LEONG, J. WANG; CERTIFIED B.C. ASSAYERS



ASSAY CERTIFICATE



Almaden Minerals Ltd. PROJECT ELK03-1 File # A303495

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
SND337-36	1016	.78	30.11	30.88
SND337-37	949	1.99	28.62	30.72

-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

DATE RECEIVED: AUG 15 2003 DATE REPORT MAILED: *Sept 3/03* SIGNED BY: *C.L.* D. TOYE, C. LEONG, J. WANG; CERTIFIED B.C. ASSAYERS



ASSAY CERTIFICATE



Almaden Minerals Ltd. PROJECT ELK03-1 File # A303495R
1103 - 750 W. Pender St., Vancouver BC V6C 2T8 Submitted by: W. Jakubowski

SAMPLE#	Ag** gm/mt	Au** gm/mt
SND337-36	85.2	37.81

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

DATE RECEIVED: DEC 9 2003 DATE REPORT MAILED: *Dec 16/2003* SIGNED BY: *[Signature]* D. TOYE, C. LEONG, J. WANG; CERTIFIED B.C. ASSAYERS

** No reject*

GEOCHEMICAL ANALYSIS CERTIFICATE



Almaden Minerals Ltd. PROJECT ELK03-1 File # A303496 Page 1
 1103 - 750 W. Pender St., Vancouver BC V6C 2T8 Submitted by: W. Jakubowski

SAMPLE#	Au* ppb
SI	<.2
SND336-1	325.3
SND336-2	89.0
SND336-4	49.9
SND336-6	15.7
SND336-7	74.4
SND336-8	24.3
SND336-9	29.6
SND336-10	4.1
SND336-11	615.9
SND336-12	2595.2
SND336-13	215.4
SND336-14	65.0
SND336-15	72.8
RE SND336-15	73.4
RRE SND336-15	56.8
SND337-1	49.5
SND337-3	291.0
SND337-4	131.0
SND337-5	889.0
SND337-6	1401.9
SND337-7	9.6
SND337-8	17.7
SND337-9	31.7
SND337-10	113.5
SND337-11	163.6
SND337-12	75.5
SND337-13	2.8
SND337-14	112.2
SND337-15	301.3
SND337-16	35.7
SND337-17	7665.0
SND337-18	117.7
SND337-19	41.6
SND337-20	67.5
STANDARD AU-R	470.3

AU* IGNITED, ACID LEACHED, ANALYZED BY ICP-MS. (15 gm)
 ASSAY RECOMMENDED FOR ROCK AND CORE SAMPLES IF CU PB ZN AS > 1%, AG > 30 PPM & AU > 1000 PPB
 - SAMPLE TYPE: CORE R150 60C
 Samples beginning 'RE' are Reruns and 'RRE' are Reject Reruns.

DATE RECEIVED: AUG 15 2003 DATE REPORT MAILED: *Sept 2/03* SIGNED BY: *[Signature]* D. TOYE, C. LEONG, J. WANG; CERTIFIED B.C. ASSAYERS



SAMPLE#	Au* ppb
SND337-21	185.0
SND337-22	83.8
SND337-23	697.3
SND337-24	76.6
SND337-25	3.6
SND337-26	25.6
SND337-27	32.5
SND337-28	9.8
SND337-29	103.1
SND337-30	264.1
SND337-31	1600.7
SND337-32	78.4
RE SND337-32	88.2
RRE SND337-32	59.6
SND337-33	43.7
SND337-34	26.2
SND337-38	61.5
STANDARD AU-R	465.0

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

GEOCHEMICAL ANALYSIS CERTIFICATE



Almaden Minerals Ltd. PROJECT ELK03-2 File # A303814

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

SAMPLE#	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P	La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Hg	Sc	Tl	S	Ga	Se	Ag**	Au**
	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%	%	ppm	ppm	%	ppm	%	%	%	%	ppm	ppm	ppm	ppm	%	ppm	ppm	gm/mt	gm/mt	
SI	<.1	.5	.5	1	<.1	.7	.1	5	.05	.6	<.1	<.5	<.1	2	<.1	<.1	<.1	<.1	.08	<.001	<.1	1.2	<.01	3	.002	<.1	.01	.394	<.01	<.1	.01	.1	<.1	<.05	<.1	<.5	.7	<.01
SND338-25	2.1	444.4	279.0	260	4.0	10.8	10.1	1535	5.90	125.9	10.2	352.2	8.7	20	1.6	2.6	1.7	15	.64	.250	28	1.6	.20	30	.006	2	.58	.010	.36	.2	.01	4.9	.2	2.80	2	<.5	2.8	.86
SND338-26	2.8	581.3	441.7	270	6.8	6.8	10.9	1039	5.94	102.6	12.1	2382.3	6.3	36	3.2	1.4	2.0	23	.55	.214	23	1.6	.21	40	.002	2	.50	.010	.20	.1	.02	4.3	.2	2.74	2	<.5	6.0	2.76
SND339-7	1.8	1583.1	331.5	79	31.3	.6	2.6	441	3.81	140.7	3.2	13933.6	8.1	2	2.4	4.2	21.2	<.1	.07	.018	6	1.7	.03	23	.001	<.1	.15	.006	.16	<.1	.02	.5	.1	3.20	<.1	<.5	32.1	22.98
SND339-27	1.9	624.9	217.4	137	6.3	.9	3.2	647	3.53	150.4	4.7	9076.3	9.8	6	3.9	1.3	14.6	2	.07	.019	11	2.3	.04	33	.003	<.1	.18	.012	.15	.1	.17	.6	.1	2.55	<.1	<.5	8.0	22.94
STANDARD DS5	12.4	141.3	23.7	139	.4	24.6	11.8	765	2.92	17.5	5.8	41.0	2.7	47	6.0	3.5	6.4	62	.74	.092	12	186.2	.66	135	.095	17	2.05	.032	.14	5.0	.18	3.8	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.
UPPER LIMITS - AG, AU, HG, W = 100 PPM; MO, CO, CD, SB, BI, TH, U & B = 2,000 PPM; CU, PB, ZN, NI, MN, AS, V, LA, CR = 10,000 PPM.
AG** & AU** BY FIRE ASSAY FROM 1 A.T. SAMPLE.
- SAMPLE TYPE: CORE R150 60C

DATE RECEIVED: AUG 28 2003

DATE REPORT MAILED: *Sept 15/03*

SIGNED BY: *C. Leong* TOYE, C. LEONG, J. WANG; CERTIFIED B.C. ASSAYERS



ASSAY CERTIFICATE



Almaden Minerals Ltd. PROJECT ELK03-2 File # A303814R

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

SAMPLE#	S. Wt gm	N Ag mg	-Ag gm/mt	Tot Ag gm/mt
SND339-27	422	.03	7.5	7.6

-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.

DATE RECEIVED: DEC 9 2003 DATE REPORT MAILED: *Dec 16/2003* SIGNED BY: *[Signature]* D. TOYE, C. LEONG, J. WANG; CERTIFIED B.C. ASSAYERS

ACME ANALYTICAL LABORATORIES LTD.
(ISO 9002 Accredited Co.)

852 E. HASTINGS ST.

VANCOUVER BC V6A 1R6

PHONE (604) 253-3158 FAX (604) 253-1716

3-1716



ASSAY CERTIFICATE



Almaden Minerals Ltd. PROJECT ELK03-2 File # A303814R
1103 - 750 W. Pender St., Vancouver BC V6C 2T8 Submitted by: W. Jakubowski

SAMPLE#	S.Wt	NAu	-Au	TotAu
	gm	mg	gm/mt	gm/mt
SND339-27	422	2.26	16.55	21.91

-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.

DATE RECEIVED: DEC 9 2003

DATE REPORT MAILED:

Dec 16/2003

SIGNED BY

D. TOYE, C. LEONG, J. WANG; CERTIFIED B.C. ASSAYERS

GEOCHEMICAL ANALYSIS CERTIFICATE

Almaden Minerals Ltd. PROJECT ELK03-2 File # A303815 Page 1
1103 - 750 W. Pender St., Vancouver BC V6C 2T8 Submitted by: W. Jakubowski



SAMPLE#	Au* ppb
---------	------------

SI	<.2
SND338-1	21600.0
SND338-2	65.9
SND338-3	4106.9
SND338-4	327.0
SND338-5	6074.0
SND338-6	1116.6
SND338-7	23260.0
SND338-8	49470.0
SND338-9	75.0
SND338-10	1242.7
SND338-11	8.0
SND338-12	224.7
SND338-13	1349.8
SND338-14	121.8
SND338-15	406.0
SND338-16	25.0
SND338-17	513.1
SND338-18	4.0
SND338-19	24.6
SND338-20	27.3
RE SND338-20	31.0
RRE SND338-20	19.5
SND338-21	10.4
SND338-22	1.9
SND338-23	3.9
SND338-24	37.9
SND338-27	3.0
SND338-28	3.0
SND338-29	1.0
SND339-1	512.8
SND339-2	108.5
SND339-3	17.3
SND339-4	556.6
SND339-5	226.8
STANDARD AU-R	473.0

AU* IGNITED, ACID LEACHED, ANALYZED BY ICP-MS. (15 gm)
ASSAY RECOMMENDED FOR ROCK AND CORE SAMPLES IF CU PB ZN AS > 1%, AG > 30 PPM & AU > 1000 PPB
- SAMPLE TYPE: CORE R150 60C
Samples beginning 'RE' are Reruns and 'RRE' are Reject Reruns.

DATE RECEIVED: AUG 28 2003 DATE REPORT MAILED: *Sept 15/03* SIGNED BY: *[Signature]* D. TOYE, C. LEONG, J. WANG; CERTIFIED B.C. ASSAYERS



SAMPLE#	Au* ppb
SND339-6	2.0
SND339-8	34.2
SND339-9	2298.0
SND339-10	331.4
SND339-11	1154.8
SND339-12	3015.0
SND339-13	2913.0
SND339-14	109.1
SND339-15	36.5
SND339-16	13.3
SND339-17	13.8
SND339-18	72.0
SND339-19	93.4
SND339-20	5.6
RE SND339-20	4.7
RRE SND339-20	3.8
SND339-21	16.7
SND339-22	1029.7
SND339-23	140.8
SND339-24	136.7
SND339-25	308.6
SND339-26	166.4
SND339-28	541.0
SND339-29	14.9
SND339-30	211.8
SND339-31	92.6
SND339-32	47.8
SND339-33	43.8
SND339-34	96.2
SND339-35	159.8
SND339-36	635.8
SND339-37	103.7
SND339-38	1969.0
SND339-39	345.4
STANDARD AU-R	459.8

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



SAMPLE#	Au* ppb
SND339-40	33.3
SND339-41	.5
SND339-42	72.1
SND339-43	28.0
SND339-44	554.3
SND339-45	542.5
SND339-46	40.5
SND339-47	354.2
SND339-48	38.7
SND339-49	76.1
SND339-50	2054.4
SND339-51	397.6
SND339-52	13.0
SND339-53	9.6
SND339-54	49.5
SND339-55	9.0
SND339-56	<.2
SND339-57	8.3
SND339-58	1346.5
SND339-59	591.5
SND339-60	7.1
RE SND339-60	5.7
RRE SND339-60	5.2
SND339-61	104.4
SND339-62	23.6
SND339-63	10.6
SND339-64	530.6
SND339-65	443.6
SND339-66	5.0
SND339-67	5.0
SND339-68	24.8
SND339-69	85.0
SND339-70	71.6
SND339-71	85.7
STANDARD AU-R	478.3

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



SAMPLE#	Au* ppb
SND339-72A	186.7
SND339-72B	17.2
SND339-74	8.2
STANDARD AU-R	472.0

Sample type: CORE R150 60C.



GEOCHEMICAL ANALYSIS CERTIFICATE



Almaden Minerals Ltd. PROJECT ELK03-2 File # A303815R

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

SAMPLE#	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P	La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Hg	Sc	Tl	S	Ga	Se	Ag**	Au**
	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%	%	ppm	ppm	%	ppm	%	%	%	%	ppm	ppm	ppm	ppm	%	ppm	ppm	gm/mt	gm/mt	
SND338-1	2.0	433.1	116.6	85	16.9	2.8	6.4	1456	2.11	67.9	8.1	29264.8	9.0	4	1.2	1.3	19.0	2	.08	.020	15	1.1	.04	31	.001	3	.20	.013	.18	.1	.05	.5	.1	1.21	1	<.5	15.2	25.53
SND338-7	1.2	1195.1	239.4	108	14.4	.9	2.5	565	3.13	65.0	5.0	21061.7	7.2	4	2.7	1.0	11.3	4	.05	.018	8	1.3	.04	25	.001	3	.16	.006	.15	.3	.03	.5	.1	2.55	1	<.5	16.0	29.88
STANDARD	12.5	138.7	24.0	132	.3	23.8	12.1	748	3.00	17.9	5.9	39.7	2.7	47	5.3	3.8	6.0	58	.71	.085	13	177.9	.65	138	.093	16	1.97	.034	.13	4.9	.16	3.4	1.0	<.05	6	5.2	1045.4	3.31

Standard is STANDARD DS5/GC-2/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.
UPPER LIMITS - AG, AU, HG, W = 100 PPM; MO, CO, CD, SB, BI, TH, U & B = 2,000 PPM; CU, PB, ZN, NI, MN, AS, V, LA, CR = 10,000 PPM.
AG** & AU** BY FIRE ASSAY FROM 1 A.T. SAMPLE.
- SAMPLE TYPE: CORE PULP

DATE RECEIVED: DEC 9 2003 DATE REPORT MAILED: Dec 18/03 SIGNED BY: *C. Leong* D. TOYE, C. LEONG, J. WANG; CERTIFIED B.C. ASSAYERS



GEOCHEMICAL ANALYSIS CERTIFICATE



Almaden Minerals Ltd. PROJECT ELK03-2 File # A303815R2
1103 - 750 W. Pender St., Vancouver BC V6C 2T8 Submitted by: W. Jakubowski

SAMPLE#	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P	La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Hg	Sc	Tl	S	Ga	Se
	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%	%	ppm	ppm	%	ppm	%	%	%	%	%	ppm	ppm	ppm	ppm	%	ppm	ppm
SND338-8	3.8	2102.3	174.1	123	22.6	10.3	3.3	555	4.45	69.1	3.9	34476.8	7.6	7	3.0	.7	16.2	3	.05	.017	10	366.5	.04	46	.001	1	.52	.031	.36	.4	.02	.6	.1	3.42	2	<.5
STANDARD DS5	12.5	135.3	24.8	130	.3	23.2	11.6	744	2.92	17.7	5.7	43.6	2.6	47	5.4	3.6	5.9	57	.69	.089	12	173.3	.64	137	.090	16	1.93	.032	.13	4.7	.16	3.4	1.0	.06	6	4.5

GROUP 10X - 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.
UPPER LIMITS - AG, AU, HG, W = 100 PPM; MO, CO, CD, SB, BI, TH, U & B = 2,000 PPM; CU, PB, ZN, NI, MN, AS, V, LA, CR = 10,000 PPM.
- SAMPLE TYPE: CORE REJ.

DATE RECEIVED: DEC 9 2003

DATE REPORT MAILED: Dec 18/03

SIGNED BY: *C. Leong* D. TOYE, C. LEONG, J. WANG; CERTIFIED B.C. ASSAYERS



ASSAY CERTIFICATE



Almaden Minerals Ltd. PROJECT ELK03-2 File # A303815R2

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
SND338-8	1.88	<.01	20.4	20.4

-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.

DATE RECEIVED: DEC 9 2003 DATE REPORT MAILED: *Dec 18/03* SIGNED BY: *C. Leong*. TOYE, C. LEONG, J. WANG; CERTIFIED B.C. ASSAYERS

ACME ANALYTICAL LABORATORIES LTD.
(ISO 9002 Accredited Co.)

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253-1716



ASSAY CERTIFICATE



Almaden Minerals Ltd. PROJECT ELK03-2 File # A303815R2
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
SND338-8	188	.73	30.36	34.24

-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.

DATE RECEIVED: DEC 9 2003

DATE REPORT MAILED:

Dec 18/03

SIGNED BY

.....D. TOYE, C.LEONG, J. WANG; CERTIFIED B.C. ASSAYERS



GEOCHEMICAL ANALYSIS CERTIFICATE



Almaden Minerals Ltd. PROJECT ELK03-3 File # A304016
1103 - 750 W. Pender St., Vancouver BC V6C 2T8 Submitted by: W. Jakubowski

SAMPLE#	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P	La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Hg	Sc	Tl	S	Ga	Se	Ag**	Au**
	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%	%	ppm	ppm	%	ppm	%	%	%	%	%	ppm	ppm	ppm	ppm	%	ppm	ppm	gm/mt	gm/mt
SNSTD-1	15.1	293.1	322.2	344	5.5	200.3	22.9	518	3.25	205.6	3.4	11561.4	2.4	47	2.5	14.8	4.5	46	1.15	.043	6	326.9	.47	50	.032	5	1.07	.033	.35	5.9	.46	4.6	.6	1.25	4	1.3	5.2	10.19
STANDARD	12.6	140.4	23.7	130	.3	24.7	12.4	748	2.91	17.8	5.8	41.6	2.7	47	5.3	3.1	6.3	59	.72	.092	13	179.2	.64	134	.099	18	2.00	.035	.14	4.6	.18	3.6	1.0	<.05	7	4.8	155.2	3.35

Standard is STANDARD DS5/R-2/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.

UPPER LIMITS - AG, AU, HG, W = 100 PPM; MO, CO, CD, SB, BI, TH, U & B = 2,000 PPM; CU, PB, ZN, NI, MN, AS, V, LA, CR = 10,000 PPM.

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

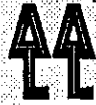
- SAMPLE TYPE: PULP

DATE RECEIVED: SEP 5 2003 DATE REPORT MAILED: *Sep 24 / 2003* SIGNED BY: *[Signature]* D. TOYE, C. LEONG, J. WANG; CERTIFIED B.C. ASSAYERS

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GEOCHEMICAL ANALYSIS CERTIFICATE



Almaden Minerals Ltd. PROJECT ELK03-3 File # A304016
1103 - 750 W. Pender St., Vancouver BC V6C 2T8 Submitted by: W. Jakubowski

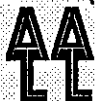
SAMPLE#	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P	La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Hg	Sc	Tl	S	Ga	Se	Ag**	Au**
	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%	%	ppm	ppm	%	ppm	%	%	%	%	ppm	ppm	ppm	ppm	%	ppm	ppm	gm/mt	gm/mt	
SNSTD-1	15.1	293.1	322.2	344	5.5	200.3	22.9	518	3.25	205.6	3.4	11561.4	2.4	47	2.5	14.8	4.5	46	1.15	.043	6	326.9	.47	50	.032	5	1.07	.033	.35	5.9	.46	4.6	.6	1.25	4	1.3	5.2	10.19
STANDARD	12.6	140.4	23.7	130	.3	24.7	12.4	748	2.91	17.8	5.8	41.6	2.7	47	5.3	3.1	6.3	59	.72	.092	13	179.2	.64	134	.099	18	2.00	.035	.14	4.6	.18	3.6	1.0	<.05	7	4.8	155.2	3.35

Standard is STANDARD DS5/R-2/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.
UPPER LIMITS - AG, AU, HG, W = 100 PPM; MO, CO, CD, SB, BI, TH, U & B = 2,000 PPM; CU, PB, ZN, NI, MN, AS, V, LA, CR = 10,000 PPM.
AG** & AU** BY FIRE ASSAY FROM 1 A.T. SAMPLE.
- SAMPLE TYPE: PULP

DATE RECEIVED: SEP 5 2003 DATE REPORT MAILED: *Sep 24 / 2003* SIGNED BY: *[Signature]* D. TOYE, C. LEONG, J. WANG; CERTIFIED B.C. ASSAYERS

GEOCHEMICAL ANALYSIS CERTIFICATE



Almaden Minerals Ltd. PROJECT ELK03-3 File # A304017
 1103 - 750 W. Pender St., Vancouver BC V6C 2T8 Submitted by: W. Jakubowski

SAMPLE#	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P	La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Hg	Sc	Tl	S	Ga	Se
	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%	%	ppm	ppm	%	ppm	%	%	%	%	%	ppm	ppm	ppm	ppm	%	ppm	ppm
SND340-34	7.2	6940.9	1590.3	653	64.6	3.3	15.2	7	7.01	318.0	8.0	24638.4	.8	9	23.3	18.0	18.2	<1	.02	.001	2	1.9	.01	15	<.001	1	.08	.003	.07	.1	.21	.5	.1	8.71	<1	<.5
STANDARD DS5	12.3	138.4	24.4	132	.3	24.0	12.2	775	2.91	18.0	5.8	43.5	2.5	46	5.4	3.4	5.8	58	.73	.094	12	179.5	.67	135	.096	17	2.13	.032	.14	4.9	.18	3.5	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.
 UPPER LIMITS - AG, AU, HG, W = 100 PPM; MO, CO, CD, SB, BI, TH, U & B = 2,000 PPM; CU, PB, ZN, NI, MN, AS, V, LA, CR = 10,000 PPM.
 - SAMPLE TYPE: CORE M150 60C

DATE RECEIVED: SEP 5 2003 DATE REPORT MAILED: *Sep 25/2003* SIGNED BY: *[Signature]* D. TOYE, C. LEONG, J. WANG; CERTIFIED B.C. ASSAYERS



ASSAY CERTIFICATE



Almaden Minerals Ltd. PROJECT ELK03-3 File # A304017

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
SND340-34	927	<.01	65.2	65.2

-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

DATE RECEIVED: SEP 5 2003 DATE REPORT MAILED: *Sep 25/2003* SIGNED BY: *[Signature]* D. TOYE, C. LEONG, J. WANG; CERTIFIED B.C. ASSAYERS



ASSAY CERTIFICATE



Almaden Minerals Ltd. PROJECT ELK03-3 File # A304017

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
SND340-34	927	<.01	22.01	22.01

-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

DATE RECEIVED: SEP 5 2003 DATE REPORT MAILED: *Sep 25/2003* SIGNED BY *[Signature]* D. TOYE, C. LEONG, J. WANG; CERTIFIED B.C. ASSAYERS

GEOCHEMICAL ANALYSIS CERTIFICATE



Almaden Minerals Ltd. PROJECT ELK03-3 File # A304018 Page 1
1103 - 750 W. Pender St., Vancouver BC V6C 2T8 Submitted by: W. Jakubowski

SAMPLE#	Au* ppb
---------	------------

SI	4.4
SND340-1	440.8
SND340-2	207.3
SND340-3	3793.6
SND340-4	53864.2
SND340-5	51079.8
SND340-6	56.7
SND340-7	94.9
SND340-8	280.8
SND340-9	427.2
SND340-10	18.0
SND340-11	208.2
SND340-12	42.4
SND340-13	3.2
SND340-14	3734.3
SND340-15	136.9
SND340-16	219.4
SND340-17	53.1
SND340-18	249.1
SND340-19	57.6
SND340-20	23.7
RE SND340-20	11.3
RRE SND340-20	132.9
SND340-21	581.6
SND340-22	472.3
SND340-23	17.0
SND340-24	151.3
SND340-25	148.0
SND340-26	2.8
SND340-27	938.7
SND340-28	26.0
SND340-29	31.0
SND340-30	133.5
SND340-31	115.0
SND340-32	32.1
STANDARD AU-R	465.0

AU* IGNITED, ACID LEACHED, ANALYZED BY ICP-MS. (15 gm)
ASSAY RECOMMENDED FOR ROCK AND CORE SAMPLES IF CU PB ZN AS > 1%, AG > 30 PPM & AU > 1000 PPB
- SAMPLE TYPE: CORE R150 60C
Samples beginning 'RE' are Reruns and 'RRE' are Reflect Reruns.

DATE RECEIVED: SEP 5 2003 DATE REPORT MAILED: *Sept 19/03* SIGNED BY: *[Signature]* D. TOYE, C. LEONG, J. WANG; CERTIFIED B.C. ASSAYERS



SAMPLE#	Au* ppb
---------	------------

SND340-33	318.7
SNSTD-2 PULP	37864.5
STANDARD AU-R	490.6

Sample type: CORE R150 60C.

GEOCHEMICAL ANALYSIS CERTIFICATE



Almaden Minerals Ltd. PROJECT ELK03-3 File # A304018R
1103 - 750 W. Pender St., Vancouver BC V6C 2T8 Submitted by: W. Jakubowski

SAMPLE#	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Au	Tl	Sr	Cd	Sb	Bi	V	Ca	P	La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Hg	Sc	Tl	S	Ga	Se
	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%	% ppm	ppm	% ppm	% ppm	% ppm	%	%	%	%	ppm	ppm	ppm	ppm	%	ppm	ppm	
SND340-4	4.8	772.6	197.7	56	19.7	10.2	4.6	339	3.27	90.6	8.3	46646.9	6.0	6	1.7	24.5	48.6	2	.04	.012	6	359.4	.03	26	.001	5	.41	.009	.33	.3	.14	.3	.1	2.58	1	<.5
SND340-5	4.1	361.4	166.2	35	12.3	6.8	3.9	257	3.36	80.4	6.2	41932.8	6.3	8	1.1	15.8	74.6	1	.04	.013	6	243.9	.02	26	.001	4	.46	.008	.33	.3	.13	.3	.1	2.70	1	<.5
STANDARD DS5	12.5	135.3	24.8	130	.3	23.2	11.6	744	2.92	17.7	5.7	43.6	2.6	47	5.4	3.6	5.9	57	.69	.089	12	173.3	.64	137	.090	16	1.93	.032	.13	4.7	.16	3.4	1.0	<.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.
UPPER LIMITS - AG, AU, HG, W = 100 PPM; MO, CO, CD, SB, BI, TH, U & B = 2,000 PPM; CU, PB, ZN, NI, MN, AS, V, LA, CR = 10,000 PPM.
- SAMPLE TYPE: CORE REJ.

DATE RECEIVED: DEC 9 2003 DATE REPORT MAILED: Dec 18/03 SIGNED BY: *CH* D. TOYE, C. LEONG, J. WANG; CERTIFIED B.C. ASSAYERS

ACME ANALYTICAL LABORATORIES LTD.
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3-1716



ASSAY CERTIFICATE



Almaden Minerals Ltd. PROJECT ELK03-3 File # A304018R

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

SAMPLE#	S.Wt gm	N _{Ag} mg	-Ag gm/m _t	TotAg gm/m _t
SND340-4	443	<.01	18.9	18.9
SND340-5	338	<.01	12.1	12.1

-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.

DATE RECEIVED: DEC 9 2003 DATE REPORT MAILED: *Dec 18/03* SIGNED BY: *C.L.* D. TOYE, C.LEONG, J. WANG; CERTIFIED B.C. ASSAYERS

ACME ANALYTICAL LABORATORIES LTD.
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852 E. HASTINGS ST.

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53-1716



ASSAY CERTIFICATE



Almaden Minerals Ltd. PROJECT ELK03-3 File # A304018R

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
SND340-4	443	1.32	31.68	34.66
SND340-5	338	1.25	38.66	42.36

-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.

DATE RECEIVED: DEC 9 2003

DATE REPORT MAILED:

Dec 18/03

SIGNED BY..... D. TOYE, C. LEONG, J. WANG; CERTIFIED B.C. ASSAYERS

GEOCHEMICAL ANALYSIS CERTIFICATE



Almaden Minerals Ltd. PROJECT ELK03-4 File # A304374
1103 - 750 W. Pender St., Vancouver BC V6C 2T8 Submitted by: W. Jakubowski

SAMPLE#	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P	La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Hg	Sc	Tl	S	Ga	Se	Ag**	Au**	
	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%	%	ppm	ppm	%	ppm	%	%	%	%	%	ppm	ppm	ppm	ppm	%	ppm	ppm	gm/mt	gm/mt	
SI	.2	5.1	.7	1	<.1	.3	<.1	6	.07	<.5	<.1	<.5	<.1	3	<.1	<.1	<.1	2	.10	<.001	<.1	<.01	3	.001	5	.01	.459	.01	.2	.03	<.1	<.1	<.05	<.1	<.5	<.3	<.01		
SND340-35	.9	124.7	131.7	193	5.3	1.4	5.5	1983	3.40	35.6	4.4	891.6	5.8	8	.9	4.5	2.4	7	.22	.056	12	2.0	.10	86	.001	5	.28	.015	.22	.1	.04	1.9	.1	.88	1	<.5	5.2	.99	
SND342-22	4.5	179.3	225.6	212	3.8	1.9	5.9	977	2.43	54.0	7.1	943.6	3.4	8	5.3	.9	3.3	6	.19	.066	12	3.4	.05	41	.001	6	.35	.013	.30	.6	.05	1.4	.1	1.31	1	<.5	4.7	1.13	
SND342-23	4.1	416.7	314.6	279	4.6	1.4	5.7	657	2.32	67.2	5.5	946.5	3.0	6	8.3	1.1	4.0	5	.16	.057	9	2.5	.03	33	.001	6	.27	.006	.25	.1	.05	1.0	.1	1.66	1	<.5	5.2	.89	
SNSTD-3 PULP	22.6	55.5	406.2	32	4.9	1099.6	28.6	399	2.25	61.7	.5	32654.7	3.6	20	<.1	.5	4.5	30	.47	.031	14	1558.4	.59	147	.044	10	1.03	.047	.27	11.9	.02	2.4	.1	<.05	3	<.5	5.6	34.08	
STANDARD DS5	12.5	137.6	25.7	132	.3	24.4	11.7	756	2.85	18.1	6.4	40.0	2.8	48	5.5	3.4	5.9	58	.72	.093	13	178.1	.65	136	.097	16	2.11	.036	.14	4.5	.17	3.5	1.0	<.05	6	5.0	159.8	3.33	

Standard is STANDARD DS5/R-2/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.
UPPER LIMITS - AG, AU, HG, W = 100 PPM; MO, CO, CD, SB, BI, TH, U & B = 2,000 PPM; CU, PB, ZN, NI, MN, AS, V, LA, CR = 10,000 PPM.
AG** & AU** BY FIRE ASSAY FROM 1 A.T. SAMPLE.
- SAMPLE TYPE: CORE R150 60C

DATE RECEIVED: SEP 18 2003 DATE REPORT MAILED: *Oct 10/2003* SIGNED BY: *[Signature]* D. TOYE, C. LEONG, J. WANG; CERTIFIED B.C. ASSAYERS

GEOCHEMICAL ANALYSIS CERTIFICATE



Almaden Minerals Ltd. PROJECT ELK03-4 File # A304375
1103 - 750 W. Pender St., Vancouver BC V6C 2T8 Submitted by: W. Jakubowski

SAMPLE#	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P	La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Hg	Sc	Tl	S	Ga	Se
	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%	%	ppm	ppm	%	ppm	%	%	%	%	ppm	ppm	ppm	ppm	%	ppm	ppm	
SI	.1	3.3	2.2	3	<.1	.7	.1	3	.08	.5	<.1	<.5	<.1	5	<.1	.1	<.1	<.1	.16	<.001	<.1	2.2	<.01	5	.004	<.1	.01	829	.01	.1	.01	<.1	<.1	<.05	<.1	<.5
SND342-21	4.3	515.3	477.9	691	43.2	4.0	8.2	12	3.00	73.7	.9	16367.8	.3	4	19.1	3.5	21.7	1	.02	.002	1	17.9	.01	28	.005	1	.07	.003	.06	.4	.16	.2	.1	3.10	<.1	<.5
SND342-25	1.4	1098.5	184.6	137	21.0	2.8	8.2	1346	10.74	142.1	2.9	2188.8	1.6	4	1.7	1.8	14.2	3	.15	.045	4	9.4	.10	10	.007	<.1	.23	.004	.20	.2	.02	.8	.1	9.56	1	.8
STANDARD DS5	12.3	142.0	26.0	137	.3	25.1	12.2	770	2.92	18.9	6.3	39.0	2.9	47	5.7	3.5	6.0	58	.72	.095	12	182.7	.68	138	.087	16	2.03	.035	.13	3.8	.16	3.5	1.0	<.05	7	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.
UPPER LIMITS - AG, AU, HG, W = 100 PPM; MO, CO, CD, SB, BI, TH, U & B = 2,000 PPM; CU, PB, ZN, NI, MN, AS, V, LA, CR = 10,000 PPM.
- SAMPLE TYPE: CORE M150 60C

DATE RECEIVED: SEP 18 2003 DATE REPORT MAILED: *Oct 10/2003* SIGNED BY: *[Signature]* D. TOYE, C. LEONG, J. WANG; CERTIFIED B.C. ASSAYERS

ACME ANALYTICAL LABORATORIES LTD.
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852 E. HASTINGS ST. VANCOUVER BC V6A 1R6

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ASSAY CERTIFICATE



Almaden Minerals Ltd. PROJECT ELK03-4 File # A304375
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	<.1	<.3	-
SND342-21	809	<.1	39.4	39.4
SND342-25	822	<.1	24.2	24.1

-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

DATE RECEIVED: SEP 18 2003 DATE REPORT MAILED: *Oct 10/2003* SIGNED BY: *[Signature]* D. TOYE, C. LEONG, J. WANG; CERTIFIED B.C. ASSAYERS

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ASSAY CERTIFICATE



Almaden Minerals Ltd. PROJECT ELK03-4 File # A304375
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	-
SND342-21	809	.02	20.09	20.11
SND342-25	822	<.01	2.46	2.46

-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 M150 60C

DATE RECEIVED: SEP 18 2003 DATE REPORT MAILED: *Oct 10/2003* SIGNED BY: *[Signature]* D. TOYE, C. LEONG, J. WANG; CERTIFIED B.C. ASSAYERS

GEOCHEMICAL ANALYSIS CERTIFICATE



Almaden Minerals Ltd. PROJECT ELK03-4 File # A304376 Page 1

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

SAMPLE#	Au* ppb
SI	<.2
SND340-36	40.8
SND340-37	50.7
SND340-38	95.0
SND340-39	22.3
SND340-40	53.7
SND340-41	54.5
SND341-1	88.7
SND341-2	85.6
SND341-3	178.9
SND341-4	213.5
SND341-5	<.2
SND341-6	471.2
SND341-7	98165.4
SND341-8	309.3
SND341-9	126.0
SND341-10	444.1
SND341-11	14.0
SND341-12	900.1
RE SND341-12	770.1
RRE SND341-12	605.0
SND341-13	8.0
SND341-14	4560.5
SND341-15	62.8
SND341-16	17.8
SND341-17	1316.5
SND341-18	23.5
SND341-19	74.1
SND341-20	7099.5
SND341-21	48.2
SND342-1	19221.2
SND342-2	22228.1
SND342-3	57120.0
SND342-4	35.0
SND342-5	560.0
STANDARD AUR	465.9

AU* IGNITED, ACID LEACHED, ANALYZED BY ICP-MS. (15 gm)
 ASSAY RECOMMENDED FOR ROCK AND CORE SAMPLES IF CU PB ZN AS > 1%, AG > 30 PPM & AU > 1000 PPB
 - SAMPLE TYPE: CORE R150 60C
 Samples beginning 'RE' are Reruns and 'RRE' are Reject Reruns.

DATE RECEIVED: SEP 18 2003 DATE REPORT MAILED: Oct 10/2003 SIGNED BY: *[Signature]* D. TOYE, C. LEONG, J. WANG; CERTIFIED B.C. ASSAYERS



SAMPLE#	Au* ppb
SND342-6	156.9
SND342-7	1862.4
SND342-8	439.3
SND342-9	65.9
SND342-10	675.6
SND342-11	279.4
SND342-12	2767.2
SND342-13	684.0
SND342-14	111.4
SND342-15	5.6
SND342-16	45.4
SND342-17	82.8
SND342-18	2702.8
RE SND342-18	2583.7
RRE SND342-18	2032.1
SND342-19	109.2
SND342-20	19.0
SND342-24	2.2
SND342-26	10.4
SND342-27	1666.9
SND342-28	57.3
SNSTD-4 PULP	10285.6
STANDARD AUR	470.7

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

GEOCHEMICAL ANALYSIS CERTIFICATE



Almaden Minerals Ltd. PROJECT ELK03-4 File # A304376R

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

SAMPLE#	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P	La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Hg	Sc	Tl	S	Ga	Se	Ag**	Au**
	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%	%	ppm	ppm	%	ppm	%	%	%	%	%	ppm	ppm	ppm	ppm	%	ppm	ppm	gm/mt	gm/mt
SND342-1	1.5	116.2	53.5	40	7.6	.6	2.5	653	1.76	15.7	6.1	3177.2	7.3	6	.4	.5	7.4	2	.09	.028	20	2.3	.06	56	.003	3	.30	.021	.21	.1	.02	.8	.1	.81	1	<.5	8.7	7.99
SND342-2	2.5	2088.5	567.4	172	40.9	1.6	3.1	259	2.26	134.5	56.8	10677.8	5.8	4	4.4	22.4	7.8	1	.05	.013	9	2.6	.02	33	<.001	1	.25	.009	.19	.1	.08	.3	.1	2.00	1	<.5	40.0	16.93
STANDARD	12.5	138.7	24.0	132	.3	23.8	12.1	748	3.00	17.9	5.9	39.7	2.7	47	5.3	3.8	6.0	58	.71	.085	13	177.9	.65	138	.093	20	1.97	.034	.13	4.9	.16	3.4	1.0	<.05	6	5.2	1019.3	3.31

Standard is STANDARD DS5/GC-2/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.

UPPER LIMITS - AG, AU, HG, W = 100 PPM; MO, CO, CD, SB, BI, TH, U & B = 2,000 PPM; CU, PB, ZN, NI, MN, AS, V, LA, CR = 10,000 PPM.

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

- SAMPLE TYPE: CORE PULP

DATE RECEIVED: DEC 9 2003 DATE REPORT MAILED: Dec 18/03 SIGNED BY: *CH* TOYE, C.LEONG, J. WANG; CERTIFIED B.C. ASSAYERS

GEOCHEMICAL ANALYSIS CERTIFICATE



Almaden Minerals Ltd. PROJECT ELK03-4 File # A304376R

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

SAMPLE#	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P	La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Hg	Sc	Tl	S	Ga	Se	Ag**	Au**
	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%	%	ppm	ppm	%	ppm	%	%	%	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	gm/mt	gm/mt
SND342-1	1.5	116.2	53.5	40	7.6	.6	2.5	653	1.76	15.7	6.1	3177.2	7.3	6	.4	.5	7.4	2	.09	.028	20	2.3	.06	56	.003	3	.30	.021	.21	.1	.02	.8	.1	.81	1	<.5	8.7	7.99
SND342-2	2.5	2088.5	567.4	172	40.9	1.6	3.1	259	2.26	134.5	56.8	10677.8	5.8	4	4.4	22.4	7.8	1	.05	.013	9	2.6	.02	33	<.001	1	.25	.009	.19	.1	.08	.3	.1	2.00	1	<.5	40.0	16.93
STANDARD	12.5	138.7	24.0	132	.3	23.8	12.1	748	3.00	17.9	5.9	39.7	2.7	47	5.3	3.8	6.0	58	.71	.085	13	177.9	.65	138	.093	20	1.97	.034	.13	4.9	.16	3.4	1.0	<.05	6	5.2	1019.3	3.31

Standard is STANDARD DS5/GC-2/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.
 UPPER LIMITS - AG, AU, HG, W = 100 PPM; MO, CO, CD, SB, BI, TH, U & B = 2,000 PPM; CU, PB, ZN, NI, MN, AS, V, LA, CR = 10,000 PPM.
 AG** & AU** BY FIRE ASSAY FROM 1 A.T. SAMPLE.
 - SAMPLE TYPE: CORE PULP

DATE RECEIVED: DEC 9 2003 DATE REPORT MAILED: Dec 18/03 SIGNED BY: *CH* TOYE, C.LEONG, J. WANG; CERTIFIED B.C. ASSAYERS

GEOCHEMICAL ANALYSIS CERTIFICATE

Almaden Minerals Ltd. PROJECT ELK03-4 File # A304376R2
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	1.4	.8	1	<.1	.2	<.1	4	.01	<.5	<.1	1.6	<.1	6	<.1	.1	.1	3	26	<.001	<.1	8.5	<.01	6	<.001	1	.01	.846	.01	<.1	<.01	.1	<.1	<.05	<.1	<.5
SND341-7	8.8	2321.5	932.8	168	50.7	3.8	7.3	555	4.43	251.1	40.4	99316.2	8.4	5	6.8	290.0	130.0	4	.06	.020	9	87.5	.03	16	<.001	2	.12	.012	.11	.4	.68	.5	.1	4.15	<.1	<.5
SND342-3	6.0	1435.7	643.1	157	54.1	11.1	4.5	279	2.39	117.1	111.6	32237.1	5.6	6	3.7	24.0	12.9	5	.06	.017	10	416.8	.03	51	.001	3	.32	.018	.23	.1	.13	.4	.2	1.79	1	<.5
STANDARD DS5	12.5	138.7	24.0	132	.3	23.8	12.1	748	3.00	17.9	5.9	42.0	2.7	47	5.3	3.8	6.0	58	.71	.093	13	177.9	.65	138	.093	16	1.97	.034	.13	4.9	.16	3.4	1.0	<.05	6	5.0

GROUP 10X - 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.
UPPER LIMITS - AG, AU, HG, W = 100 PPM; MO, CO, CD, SB, BI, TH, U & B = 2,000 PPM; CU, PB, ZN, NI, MN, AS, V, LA, CR = 10,000 PPM.
- SAMPLE TYPE: CORE REJ.

DATE RECEIVED: DEC 9 2003

DATE REPORT MAILED: Dec 17/03

SIGNED BY: *C. Leong* D. TOYE, C. LEONG, J. WANG; CERTIFIED B.C. ASSAYERS



ASSAY CERTIFICATE



Almaden Minerals Ltd. PROJECT ELK03-4 File # A304376R2
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
SND341-7	683	<.01	45.8	45.8
SND342-3	354	<.01	51.0	51.0

-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.

DATE RECEIVED: DEC 9 2003

DATE REPORT MAILED:

Dec 17/03

SIGNED BY: *C.L.* D. TOYE, C.LEONG, J. WANG; CERTIFIED B.C. ASSAYERS

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VANCOUVER BC V6A 1R6

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ASSAY CERTIFICATE



Almaden Minerals Ltd. PROJECT ELK03-4 File # A304376R2

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
SND341-7	683	<.01	92.67	92.67
SND342-3	354	.80	25.56	27.82

-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.

DATE RECEIVED: DEC 9 2003

DATE REPORT MAILED: Dec 17/03

SIGNED BY: *CH* D. TOYE, C. LEONG, J. WANG; CERTIFIED B.C. ASSAYERS

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GEOCHEMICAL ANALYSIS CERTIFICATE

Almaden Minerals Ltd. PROJECT ELK03-5 File # A304751

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

SAMPLE#	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P	La	Cr	Hg	Ba	Tl	B	Al	Na	K	W	Hg	Sc	Tl	S	Ga	Se	Ag**	Au**
	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%	%	ppm	ppm	%	ppm	%	%	%	%	%	ppm	ppm	ppm	ppm	%	ppm	ppm	gm/mt	gm/mt
SND0343-10	1.5	1728.7	76.7	87	37.1	1.1	3.4	309	5.51	595.8	3.2	19609.7	5.7	2	2.2	.7	56.8	<1	.05	.019	4	5.0	.02	16<.001	1	.21	.007	.17	.8	<.01	.2	4	4.69	1	.5	41.4	64.27	
SND0343-19	2.5	167.4	598.2	413	2.7	.8	2.5	495	1.90	65.7	4.1	1161.3	8.4	5	5.4	.9	3.5	3	.06	.013	9	5.2	.02	40.003	2	.21	.022	.17	.2	.01	.4	1	1.23	1	.5	3.2	1.03	
SND0343-22	3.2	528.0	2184.6	1789	22.7	1.4	3.8	75	2.70	157.2	6.8	6623.2	6.8	3	38.5	8.0	6.3	3	.03	.009	7	5.7	.01	40<.001	1	.19	.005	.16	.7	.29	.2	1	2.37	<1	.5	20.4	6.97	
SND0343-23	2.3	248.0	577.7	266	5.0	.9	2.1	143	1.02	37.0	19.1	734	6	23	5.4	14.9	5.6	2	.08	.014	14	3.8	.02	46.003	3	20	.018	.13	.1	.03	.4	1	.70	<1	<.5	4.1	.84	
SNSTD-5 PULP	18.8	50.2	424.3	34	4.4	810.9	26.1	358	2.21	63.2	.5	30794.4	3.4	20	.1	.4	4.5	29	.46	.033	14	1137.7	.58	159.043	6	1	01.049	.23	12.0	.02	2.4	.1	<.05	3	<.5	4.8	34.16	
SNSTD-7 PULP	18.0	51.9	422.3	37	4.6	853.4	27.0	358	2.20	60.9	.5	32498.4	3.4	19	.1	.4	4.4	28	.46	.034	15	1099.3	.57	160.042	6	1	01.050	.26	12.2	.02	2.4	.1	<.05	3	<.5	4.1	34.58	
STANDARD DS5/R-2/AU-1	12.0	136.3	24.5	138	.3	23.7	11.8	742	2.93	18.4	5.8	39.8	2.5	48	5.4	3.4	5.9	58	.72	.087	12	175.0	.64	138.097	17	1	99.034	.14	4.5	.16	3.5	1.1	<.05	7	4.9	156.2	3.43	

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.
UPPER LIMITS - AG, AU, HG, W = 100 PPM; MO, CO, CD, SB, BI, TH, U & B = 2,000 PPM; CU, PB, ZN, NI, MN, AS, V, LA, CR = 10,000 PPM.
AG** & AU** BY FIRE ASSAY FROM 1 A.T. SAMPLE.
- SAMPLE TYPE: CORE R150 60C

DATE RECEIVED: OCT 2 2003 DATE REPORT MAILED: *Oct 21/2003* SIGNED BY: *[Signature]* D. TOYE, C.LEONG, J. WANG; CERTIFIED B.C. ASSAYERS



ASSAY CERTIFICATE



Almaden Minerals Ltd. PROJECT ELK03-5 File # A304751R
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
SND343-10	1015	14.89	61.9	76.6

-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.

DATE RECEIVED: DEC 9 2003 DATE REPORT MAILED: *Dec 16/2003* SIGNED BY: *[Signature]* D. TOYE, C. LEONG, J. WANG; CERTIFIED B.C. ASSAYERS



ASSAY CERTIFICATE



Almaden Minerals Ltd. PROJECT ELK03-5 File # A304751R
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
SND343-10	1015	.96	33.80	34.75

-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.

DATE RECEIVED: DEC 9 2003 DATE REPORT MAILED: Dec 16/2003 SIGNED BY *[Signature]* D. TOYE, C. LEONG, J. WANG; CERTIFIED B.C. ASSAYERS

GEOCHEMICAL ANALYSIS CERTIFICATE



Almaden Minerals Ltd. PROJECT ELK03-5 File # A304752

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

SAMPLE#	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P	La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Hg	Sc	Tl	S	Ga	Se
	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%	%	ppm	ppm	%	ppm	%	%	%	%	%	ppm	ppm	ppm	ppm	%	ppm	ppm
SND346-17	10.3	3064.0	362.5	196	84.9	2.3	11.9	24	5.38	156.4	2.2	18261.6	2.7	3	4.1	1.4	29.9	1	.02	.005	4	8.7	.01	9	.003	1	.18	.005	.15	.3	.04	.2	.1	6.03	1	<.5
STANDARD DS5	12.4	137.4	23.1	131	.3	23.3	12.4	740	2.94	18.0	5.6	42.0	2.8	46	5.3	3.5	5.9	59	.72	.090	11	178.5	.64	132	.096	18	1.99	.032	.13	4.9	.17	3.3	.9	<.05	6	4.6

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.
 UPPER LIMITS - AG, AU, HG, W = 100 PPM; MO, CO, CD, SB, BI, TH, U & B = 2,000 PPM; CU, PB, ZN, NI, MN, AS, V, LA, CR = 10,000 PPM.
 - SAMPLE TYPE: CORE M150 60C

DATE RECEIVED: OCT 2 2003 DATE REPORT MAILED: *Oct 23/2003* SIGNED BY: *[Signature]* D. TOYE, C. LEONG, J. WANG; CERTIFIED B.C. ASSAYERS



ASSAY CERTIFICATE



Almaden Minerals Ltd. PROJECT ELK03-5 File # A304752
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
SND346-17	1071	9.32	92.3	101.1

-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

DATE RECEIVED: OCT 2 2003 DATE REPORT MAILED: *Oct 23/2003* SIGNED BY: *[Signature]* D. TOYE, C. LEONG, J. WANG; CERTIFIED B.C. ASSAYERS

ACMP ANALYTICAL LABORATORIES LTD.
(ISO 9002 Accredited Co.)

852 E. HASTINGS ST.

VANCOUVER BC V6A 1R6

PHONE (604) 253-3158 FAX (604) 253-1716

3-1716



ASSAY CERTIFICATE



Almaden Minerals Ltd. PROJECT ELK03-5 File # A304752

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
SND346-17	1071	1.07	16.42	17.42

-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 M150 60C

DATE RECEIVED: OCT 2 2003 DATE REPORT MAILED: *Oct 23/2003* SIGNED BY: *[Signature]* D. TOYE, C. LEONG, J. WANG; CERTIFIED B.C. ASSAYERS

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(ISO 9002 Accredited Co.)

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ASSAY CERTIFICATE



Almaden Minerals Ltd. PROJECT ELK03-5 File # A304752R

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

SAMPLE#

Ag** Au**
gm/mt gm/mt

SI
SND346-17

<.3 <.01
81.6 21.56

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

DATE RECEIVED: DEC 9 2003 DATE REPORT MAILED: *Dec 16/2003* SIGNED BY: *J. Wang* D. TOYE, C. LEONG, J. WANG; CERTIFIED B.C. ASSAYERS

GEOCHEMICAL ANALYSIS CERTIFICATE



Almaden Minerals Ltd. PROJECT ELK03-5 File # A304753 Page 1

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

SAMPLE#	Au* ppb
SI	4.1
SND343-1	49220.0
SND343-2	317.6
SND343-3	176.7
SND343-4	89.8
SND343-5	87.5
SND343-6	296.9
SND343-7	31.7
SND343-8	16.0
SND343-9	1473.6
SND343-11	35.6
SND343-12	74.2
SND343-13	38.7
SND343-14	30.5
SND343-15	14.9
SND343-16	3.9
SND343-17	213.9
SND343-18	162.8
SND343-20	194.8
RE SND343-20	184.0
RRE SND343-20	193.6
SND343-21	428.6
SND343-24	86.7
SND343-25	193.6
SND343-26	14.2
SND343-27	415.8
SND344-1	45.2
SND344-2	42.1
SND344-3	394.0
SND344-4	1571.9
SND345-1	14.3
SND345-2	1235.4
SND345-3	767.0
SND345-4	685.5
SND345-5	5.4
STANDARD AU-R	513.0

AU* IGNITED, ACID LEACHED, ANALYZED BY ICP-MS. (15 gm)
 ASSAY RECOMMENDED FOR ROCK AND CORE SAMPLES IF CU PB ZN AS > 1%, AG > 30 PPM & AU > 1000 PPB
 - SAMPLE TYPE: CORE R150 60C
 Samples beginning 'RE' are Reruns and 'RRE' are Reject Reruns.

DATE RECEIVED: OCT 2 2003 DATE REPORT MAILED: *Oct 18/2003* SIGNED BY: *[Signature]* D. TOYE, C. LEONG, J. WANG; CERTIFIED B.C. ASSAYERS



SAMPLE#	Au* ppb
SND345-6	18.5
SND345-7	48.7
SND345-8	2476.0
SND345-9	4297.8
SND345-10	135.7
SND345-11	284.1
SND345-12	2377.4
SND345-13	91.9
SND345-14	81.0
SND345-15	52.8
SND346-1	2050.9
SND346-2	17.1
SND346-3	1996.2
SND346-4	700.2
SND346-5	1709.8
SND346-6	26.4
SND346-7	3069.2
SND346-8	22860.0
RE SND346-8	23480.0
RRE SND346-8	14688.9
SND346-9	34330.0
SND346-10	416.2
SND346-11	339.3
SND346-12	375.6
SND346-13	495.7
SND346-14	597.8
SND346-15	656.1
SND346-16	50.8
SND346-18	32.7
SNSTD-6 PULP	9970.3
STANDARD AU-R	470.9

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

GEOCHEMICAL ANALYSIS CERTIFICATE

Almaden Minerals Ltd. PROJECT ELK03-5 File # A304753R
1103 - 750 W. Pender St., Vancouver BC V6C 2T8 Submitted by: W. Jakubowski



SAMPLE#	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P	La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Hg	Sc	Tl	S	Ga	Se	Ag**	Au**
	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%	%	ppm	ppm	%	ppm	%	%	%	%	ppm	ppm	ppm	ppm	%	ppm	ppm	gm/mt	gm/mt	
SND346-8	2.5	1092.5	576.1	127	40.5	1.7	5.8	932	2.26	276.8	11.0	25956.0	11.7	8	3.7	21.1	25.8	1	.05	.017	11	3.4	.02	37	.001	3	.19	.005	.20	.8	.26	.9	.2	1.89	1	<.5	40.2	22.76
STANDARD	12.5	138.7	24.0	132	.3	23.8	12.1	748	3.00	17.9	5.9	39.7	2.7	47	5.3	3.8	6.0	58	.71	.085	13	177.9	.65	138	.093	16	1.97	.034	.13	4.9	.16	3.4	1.0	<.05	6	5.2	1045.4	3.31

Standard is STANDARD DS5/GC-2/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.
UPPER LIMITS - AG, AU, HG, W = 100 PPM; MO, CO, CD, SB, BI, TH, U & B = 2,000 PPM; CU, PB, ZN, NI, MN, AS, V, LA, CR = 10,000 PPM.
AG** & AU** BY FIRE ASSAY FROM 1 A.T. SAMPLE.
- SAMPLE TYPE: CORE PULP AU** GROUP 3B - 30.00 GM SAMPLE ANALYSIS BY FA/ICP.

DATE RECEIVED: DEC 9 2003

DATE REPORT MAILED: Dec 18/03

SIGNED BY: *C. Leong* D. TOYE, C. LEONG, J. WANG; CERTIFIED B.C. ASSAYERS

ACME ANALYTICAL LABORATORIES LTD.
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852 E. HASTINGS ST. VANCOUVER BC V6A 1R6

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GEOCHEMICAL ANALYSIS CERTIFICATE



Almaden Minerals Ltd. PROJECT ELK03-5 File # A304753R

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

SAMPLE#	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P	La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Hg	Sc	Tl	S	Ga	Se	Ag**	Au**
	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%	%	ppm	ppm	%	ppm	%	%	%	%	%	ppm	ppm	ppm	ppm	%	ppm	ppm	gm/mt	gm/mt
SND346-8	2.5	1092.5	576.1	127	40.5	1.7	5.8	932	2.26	276.8	11.0	25956.0	11.7	8	3.7	21.1	25.8	1	.05	.017	11	3.4	.02	37	.001	3	.19	.005	.20	.8	.26	.9	.2	1.89	1	<.5	40.2	22.76
STANDARD	12.5	138.7	24.0	132	.3	23.8	12.1	748	3.00	17.9	5.9	39.7	2.7	47	5.3	3.8	6.0	58	.71	.085	13	177.9	.65	138	.093	16	1.97	.034	.13	4.9	.16	3.4	1.0	<.05	6	5.2	1045.4	3.31

Standard is STANDARD DS5/GC-2/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.

UPPER LIMITS - AG, AU, HG, W = 100 PPM; MO, CO, CD, SB, BI, TH, U & B = 2,000 PPM; CU, PB, ZN, NI, MN, AS, V, LA, CR = 10,000 PPM.

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

- SAMPLE TYPE: CORE PULP AU** GROUP 38 - 30.00 GM SAMPLE ANALYSIS BY FA/ICP.

DATE RECEIVED: DEC 9 2003 DATE REPORT MAILED: Dec 18/03 SIGNED BY: *C. Leong* D. TOYE, C. LEONG, J. WANG; CERTIFIED B.C. ASSAYERS

GEOCHEMICAL ANALYSIS CERTIFICATE



Almaden Minerals Ltd. PROJECT ELK03-5 File # A304753R2
1103 - 750 W. Pender St., Vancouver BC V6C 2T8 Submitted by: W. Jakubowski

SAMPLE#	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P	La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Hg	Sc	Tl	S	Ga	Se	
	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%	%	ppm	ppm	%	ppm	%	%	%	%	ppm	ppm	ppm	ppm	%	ppm	ppm		
SI	.2	2.1	2.7	1	<.1	.3	<.1	2	.01	<.5	.1	13.3	<.1	5	<.1	<.1	<.1	1	.18	<.001	<.1	8.1	<.01	4	<.001	2	.01	.762	.01	<.1	<.01	.1	<.1	.14	<.1	<.5	
SND343-1	25.0	368.8	330.7	39	53.1	6.7	6.6	43	4.08	62.3	20.1	200	21.4	4.9	2	1.3	48.5	60.9	1	.02	.008	4	188.0	.01	24	<.001	4	.15	.007	.14	.2	.34	.2	<.1	3.82	1	<.5
SND346-9	4.2	366.9	507.2	84	74.0	4.8	7.6	634	5.52	156.0	18.3	304	38.8	8.4	8	2.3	15.8	71.2	3	.03	.014	9	80.5	.02	32	.001	2	.36	.007	.30	.3	.22	.6	.1	4.91	1	<.5
STANDARD DS5	12.5	138.4	25.6	134	.3	24.2	11.9	743	2.93	18.0	5.8	44.0	2.6	46	5.1	3.6	6.0	57	.69	.091	11	176.8	.64	137	.086	19	1.92	.033	.13	5.3	.17	3.2	1.0	.07	6	4.6	

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.
UPPER LIMITS - AG, AU, HG, W = 100 PPM; MO, CO, CD, SB, BI, TH, U & B = 2,000 PPM; CU, PB, ZN, NI, MN, AS, V, LA, CR = 10,000 PPM.
- SAMPLE TYPE: CORE REJ.

DATE RECEIVED: DEC 9 2003 DATE REPORT MAILED: Dec 18/03 SIGNED BY: *C. Leong* D. TOYE, C. LEONG, J. WANG; CERTIFIED B.C. ASSAYERS



ASSAY CERTIFICATE



Almaden Minerals Ltd. PROJECT ELK03-5 File # A304753R2
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
SND343-1	648	1.28	54.4	56.3
SND346-9	301	3.99	78.5	91.7

-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.

DATE RECEIVED: DEC 9 2003

DATE REPORT MAILED: Dec 18/03

SIGNED BY: *Chy* D. TOYE, C.LEONG, J. WANG; CERTIFIED B.C. ASSAYERS

ACME ANALYTICAL LABORATORIES LTD.
(ISO 9002 Accredited Co.)

852 E. HASTINGS ST.

VANCOUVER BC V6A 1R6

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53-1716



ASSAY CERTIFICATE



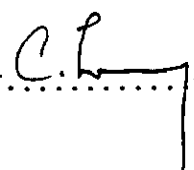
Almaden Minerals Ltd. PROJECT ELK03-5 File # A304753R2
1103 - 750 W. Pender St., Vancouver BC V6C 2T8 Submitted by: W. Jakubowski

SAMPLE#	S.Wt gm	NAu mg	-Au gm/mt	TotAu gm/mt
SND343-1	648	2.65	22.14	26.23
SND346-9	301	4.14	26.10	39.85

-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.

DATE RECEIVED: DEC 9 2003

DATE REPORT MAILED: Dec 18/03

SIGNED BY:  D. TOYE, C. LEONG, J. WANG; CERTIFIED B.C. ASSAYERS

GEOCHEMICAL ANALYSIS CERTIFICATE



Almaden Minerals Ltd. PROJECT ELK03-6 File # A305108

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

SAMPLE#	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P	La	Cr	Hg	Ba	Ti	B	Al	Na	K	W	Hg	Sc	Tl	S	Ga	Se	Ag**	Au**		
	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%	%	ppm	ppm	%	ppm	%	%	%	%	ppm	ppm	ppm	ppm	%	ppm	ppm	gm/mt	gm/mt			
SI	.3	1.3	.7	1	<.1	.6	.1	11	.11	<.5	<.1	<.5	<.1	4	<.1	<.1	<.1	<.1	21	.001	<.1	2.1	<.01	5<.001	<.1	.02	824	.01	2	<.01	.2	<.1	<.05	<.1	<.5	.5	<.01			
SN0349-27	6.0	262.1	402.5	147	50.7	1.5	6.6	23	2.62	85.4	3.7	7585.9	6.1	4	3.7	6.2	30.0	<.1	.02	.008	6	7.0	.01	26<.001	2	.27	.005	.22	1.1	.07	.2	.1	2.48	1	<.5	53.9	7.86			
SN0351-34	2.9	307.1	304.8	145	13.7	2.0	4.6	590	3.21	39.8	3.5	389.5	7.5	2	1.6	2.1	7.3	<.1	.04	.013	8	7.6	.04	32<.001	1	.35	.013	.29	1.4	.01	.4	.1	2.30	1	<.5	13.1	.57			
SN0351-40	4.1	189.8	588.7	184	4.6	1.2	2.5	206	1.64	32.3	10.5	989.3	9.1	4	5.0	.9	3.4	1	.04	.016	9	5.7	.02	62<.001	1	.33	.005	.27	1.0	.02	.4	.1	1.21	1	<.5	5.1	1.64			
SNSTD-9 PULP	14.3	282.2	321.0	341	4.8	142.9	22.4	507	3.37	204.4	3.1	10561.7	2.0	45	2.6	16.5	4.0	47	1.19	.041	6	252.3	.49	57	.038	5	1.10	.031	.34	5.6	.41	4.3	.6	1.28	4	1.6	5.1	9.92		
SNSTD-11 PULP	21.4	56.3	427.2	37	5.1	1206.7	29.7	399	2.34	63.1	.5	31189.1	3.2	19	.1	.6	4.6	31	.51	.034	14	1539.8	.64	154	.047	7	1.10	.048	.29	12.5	.02	2.5	.1	<.05	4	<.5	6.2	28.02		
SNSTD-13 PULP	20.2	56.2	420.3	36	4.9	1118.6	28.7	379	2.27	61.1	.4	35604.1	3.3	19	.1	.6	4.4	30	.49	.033	14	1448.1	.63	158	.041	5	1.07	.046	.28	12.4	.02	2.5	.1	<.05	4	<.5	7.3	30.11		
STANDARD DS5/R-2/AU-1	12.1	138.5	23.4	135	.3	24.7	12.1	748	2.96	17.6	5.8	42.0	2.5	47	5.4	3.4	5.9	58	.76	.089	12	179.2	.68	130	.095	18	2.12	.034	.13	4.0	.13	3.4	.9	<.05	7	4.8	159.3	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.
 UPPER LIMITS - AG, AU, HG, W = 100 PPM; MO, CO, CD, SB, BI, TH, U & B = 2,000 PPM; CU, PB, ZN, NI, MN, AS, V, LA, CR = 10,000 PPM.
 AG** & AU** BY FIRE ASSAY FROM 1 A.T. SAMPLE.
 - SAMPLE TYPE: CORE R150 60C

DATE RECEIVED: OCT 17 2003 DATE REPORT MAILED: *Nov 7/03* SIGNED BY: *C. Leong* D. TOYE, C. LEONG, J. WANG; CERTIFIED B.C. ASSAYERS

GEOCHEMICAL ANALYSIS CERTIFICATE



Almaden Minerals Ltd. PROJECT ELK03-6 File # A305109

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	.3	1.9	1.8	1	<.1	.5	.1	10	.10	<.5	<.1	1.5	<.1	5	<.1	.1	<.1	<.1	.17	.001	<.1	1.9	.01	4	.001	9	.02	.724	.01	.2	<.01	.1	<.1	<.05	<.1	<.5	
SND348-3	12.1	1788.9	721.0	280	139.2	4.6	25.0	474	10.90	1484.9	6.9	730	19.9	3.1	7	3.4	3.2	29.0	4	.07	.018	4	6.6	.07	5	.001	1	.30	.006	.18	1.7	.03	1.3	.1	11.55	1	.8
STANDARD DS5	12.0	139.8	23.6	134	.6	24.0	11.8	767	2.83	18.6	5.8	44.0	2.5	46	5.3	3.6	5.9	59	.71	.094	11	179.6	.68	134	.093	16	2.13	.031	.13	4.6	.17	3.3	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.
UPPER LIMITS - AG, AU, HG, W = 100 PPM; MO, CO, CD, SB, BI, TH, U & B = 2,000 PPM; CU, PB, ZN, NI, MN, AS, V, LA, CR = 10,000 PPM.
- SAMPLE TYPE: CORE M150 60C

DATE RECEIVED: OCT 17 2003 DATE REPORT MAILED: *Nov 10/03* SIGNED BY: *C.L.* D. TOYE, C. LEONG, J. WANG; CERTIFIED B.C. ASSAYERS



ASSAY CERTIFICATE



Almaden Minerals Ltd. PROJECT ELK03-6 File # A305109

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 SND348-3	300 680	<.01 <.01	<.3 140.3	<.3 140.4

-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

DATE RECEIVED: OCT 17 2003 DATE REPORT MAILED: Nov 10/03 SIGNED BY: *CT* D. TOYE, C. LEONG, J. WANG; CERTIFIED B.C. ASSAYERS

ACME ANALYTICAL LABORATORIES LTD.
(ISO 9002 Accredited Co.)

852 E. HASTINGS ST.

VANCOUVER BC V6A 1R6

PHONE (604) 253-3158 FAX (604) 253-1716

3-1716



ASSAY CERTIFICATE



Almaden Minerals Ltd. PROJECT ELK03-6 File # A305109

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 SND348-3	300 680	<.01 .03	<.01 92.90	.01 92.94

-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

DATE RECEIVED: OCT 17 2003

DATE REPORT MAILED: Nov 10/03

SIGNED BY: *C. Leong* D. TOYE, C. LEONG, J. WANG; CERTIFIED B.C. ASSAYERS

GEOCHEMICAL ANALYSIS CERTIFICATE

Almaden Minerals Ltd. PROJECT ELK03-6 File # A305110 Page 1
1103 - 750 W. Pender St., Vancouver BC V6C 2T8 Submitted by: W. Jakubowski



SAMPLE#	Au* ppb	Sample gm
SI	.6	-
SND347-1	25.5	1300
SND347-2	4355.6	2400
SND347-3	176.6	600
SND347-4	1604.4	900
SND347-5	192.1	800
SND347-6	617.6	800
SND347-7	243.2	700
SND347-8	57.7	800
SND347-9	1310.6	1200
SND347-10	12355.8	900
SND347-11	1332.2	500
SND347-12	11.7	900
SND347-13	65.6	1000
SND347-14	29.2	1800
SND347-15	92.5	3100
SND347-16	1079.6	800
SND347-17	23.1	2500
SND347-18	43439.3	2000
SND347-19	89.6	2700
SND347-20	284.7	1400
SND347-21	171.6	2300
RE SND347-21	173.6	-
RRE SND347-21	169.1	-
SND348-1	1190.3	900
SND348-2	37.0	2600
SND348-4	254.1	1200
SND348-5	1221.7	1500
SND348-6	24081.8	500
SND348-7	6063.2	1000
SND348-8	3464.9	900
SND349-1	3495.0	2200
SND349-2	594.0	800
SND349-3	116.2	1600
SND349-4	278.4	700
STANDARD AU-R	481.4	-

AU* IGNITED, ACID LEACHED, ANALYZED BY ICP-MS. (15 gm)
ASSAY RECOMMENDED FOR ROCK AND CORE SAMPLES IF CU PB ZN AS > 1%, AG > 30 PPM & AU > 1000 PPB
- SAMPLE TYPE: CORE R150 60C
Samples beginning 'RE' are Reruns and 'RRE' are Reject Reruns.

DATE RECEIVED: OCT 17 2003 DATE REPORT MAILED: *Oct 30/03* SIGNED BY: *[Signature]* D. TOYE, C. LEONG, J. WANG; CERTIFIED B.C. ASSAYERS



SAMPLE#	Au* ppb	Sample gm
SND349-5	136.3	800
SND349-6	1433.8	1200
SND349-7	8109.4	400
SND349-8	1785.4	700
SND349-9	964.5	900
SND349-10	407.1	300
SND349-11	5.0	600
SND349-12	80.7	700
SND349-13	8643.5	1400
SND349-14	4801.6	1500
SND349-15	485.0	800
SND349-16	810.6	1100
SND349-17	447.7	1300
SND349-18	1621.4	1800
SND349-19	187.7	900
SND349-20	28.6	1200
SND349-21	47.9	3100
SND349-22	10.8	1800
RE SND349-22	10.3	-
RRE SND349-22	10.5	-
SND349-23	8224.7	800
SND349-24	4014.4	3100
SND349-25	3091.2	900
SND349-26	112.4	2700
SND349-28	1844.0	1100
SND349-29	24.7	3100
SND349-30	26.1	1800
SND349-31	1.9	1700
SND349-32	1103.6	1200
SND349-33	64.8	700
SND349-34	151.2	1300
SND349-35	127.2	600
SND350-1	113.0	400
SND350-2	70.1	2100
STANDARD AU-R	466.4	-

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



SAMPLE#	Au* ppb	Sample gm
SNF350-3	59.7	2300
SND350-4	3.3	1100
SND350-5	565.8	700
SND350-6	9.0	2400
SND350-7	5727.2	700
SND350-8	8.1	2500
SND350-9	4331.1	1300
SND351-1	142.5	700
SND351-2	88.8	500
SND351-3	96.1	700
SND351-4	29.7	1000
SND351-5	35.0	1800
SND351-6	8537.4	1200
SND351-7	1347.8	1000
SND351-8	30.5	600
SND351-9	137.7	2000
SND351-10	200.5	1000
RE SND351-10	340.8	-
RRE SND351-10	230.9	-
SND351-11	38.2	1800
SND351-12	877.7	800
SND351-13	5.1	1200
SND351-14	352.2	1400
SND351-15	147.6	800
SND351-16	2.3	1100
SND351-17	110.3	1200
SND351-18	87.3	800
SND351-19	28.2	2300
SND351-20	129.4	1500
SND351-21	72.1	2800
SND351-22	224.1	2000
SND351-23	123.2	1200
SND351-24	56.2	800
SND351-25	172.1	700
STANDARD AU-R	463.3	-

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



SAMPLE#	Au* ppb	Sample gm
SND351-26	1320.0	1100
SND351-27	23.2	800
SND351-28	62.7	900
SND351-29	65.1	1000
SND351-30	21.1	600
SND351-31	86.7	500
SND351-32	783.7	500
SND351-33	2.7	3000
SND351-35	1259.0	700
SND351-36	9.7	600
SND351-37	15.4	2700
SND351-38	223.2	3100
SND351-39	28.3	900
SND351-41	60.9	2500
RE SND351-41	69.4	-
RRE SND351-41	44.6	-
SND352-1	160.0	800
SND352-2	123.0	800
SND352-3	136.0	400
SND352-4	.7	1300
SND352-5	5245.9	1000
SND352-6	11865.0	800
SND353-1	132.3	800
SND353-2	191.4	800
SND353-3	<.2	800
SNSTD-8 PULP	10432.6	-
SNSTD-10 PULP	9898.8	-
SNSTD-12 PULP	33830.7	-
STANDARD AU-R	468.0	-

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



GEOCHEMICAL ANALYSIS CERTIFICATE

Almaden Minerals Ltd. PROJECT ELK03-6 File # A305110R2

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 %	Al %	Na %	K %	W ppm	Hg ppm	Sc ppm	Tl ppm	S %	Ga ppm	Se ppm
SI	.2	2.2	1.8	2	<.1	.7	.1	7	.03	.7	<.1	1.1	<.1	6	<.1	.1	.1	3	.28	.001	<.1	9.8	.01	7	.001	1	.02	.878	.01	<.1	<.01	.1	<.1	<.05	<.1	<.5
SND347-18	9.7	2285.4	2846.9	490	79.8	12.7	9.7	209	4.06	190.1	10.5	37712.3	6.7	14	10.6	5.2	29.9	4	.04	.005	9	312.1	.02	25	<.001	2	.21	.006	.18	.1	.14	.3	.2	4.14	1	<.5
STANDARD DS5	12.5	138.7	24.0	132	.3	23.8	12.1	748	3.00	17.9	5.9	42.0	2.7	47	5.3	3.8	6.0	58	.71	.093	13	177.9	.65	138	.093	16	1.97	.034	.13	4.9	.16	3.4	1.0	<.05	6	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.
UPPER LIMITS - AG, AU, HG, W = 100 PPM; MO, CO, CD, SB, BI, TH, U & B = 2,000 PPM; CU, PB, ZN, NI, MN, AS, V, LA, CR = 10,000 PPM.
- SAMPLE TYPE: CORE REJ.

DATE RECEIVED: DEC 9 2003

DATE REPORT MAILED: Dec 17/03

SIGNED BY: *C. Leong* D. TOYE, C. LEONG, J. WANG; CERTIFIED B.C. ASSAYERS



ASSAY CERTIFICATE

Almaden Minerals Ltd. PROJECT ELK03-6 File # A305110R2
 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
SND347-18	1452	<.01	79.9	79.9

-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.

DATE RECEIVED: DEC 9 2003 DATE REPORT MAILED: Dec 17/03 SIGNED BY: *C. Leong* D. TOYE, C. LEONG, J. WANG; CERTIFIED B.C. ASSAYERS

ACME ANALYTICAL LABORATORIES LTD.
(ISO 9002 Accredited Co.)

852 E. HASTINGS ST.

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PHONE (604) 253-3158 FAX (604) 253-1716

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ASSAY CERTIFICATE



Almaden Minerals Ltd. PROJECT ELK03-6 File # A305110R2

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

SAMPLE#	S.Wt	NAu	-Au	TotAu
	gm	mg	gm/mt	gm/mt
SND347-18	1452	1.09	43.60	44.35

-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.

DATE RECEIVED: DEC 9 2003

DATE REPORT MAILED: Dec 17/03

SIGNED BY: *CL* D. TOYE, C. LEONG, J. WANG; CERTIFIED B.C. ASSAYERS



GEOCHEMICAL ANALYSIS CERTIFICATE

Almaden Minerals Ltd. PROJECT ELK03-7 File # A305265

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

SAMPLE#	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P	La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Hg	Sc	Tl	S	Ga	Se	Ag**	Au**
	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%	%	ppm	ppm	%	ppm	%	%	%	%	%	ppm	ppm	ppm	ppm	%	ppm	ppm	gm/mt	gm/mt
SI	.2	.7	.9	1	<.1	1.7	.1	3	.05	.5	<.1	<.5	<.1	3	<.1	<.1	<.1	<.1	.13	<.001	<.1	1.6	<.01	4	<.001	4	.01	.644	.01	.2	<.01	<.1	<.1	<.05	<.1	<.5	<.3	<.01
SND354-19	1.3	51.8	28.4	59	1.0	.9	6.2	774	3.19	19.4	.9	366.1	6.2	24	.2	.2	.1	14	.53	.079	12	1.5	.41	245	.001	5	.30	.019	.20	.1	<.01	3.0	.1	.51	1	<.5	1.1	.27
SND354-21	4.2	76.9	52.9	61	.8	.1	5.6	1208	2.50	30.4	8.5	257.4	4.5	78	.7	.4	.1	6	2.13	.071	11	3.9	.46	218	.001	5	.42	.021	.29	.5	<.01	2.3	.1	.65	1	<.5	1.6	.43
SND354-32	1.7	368.5	139.6	227	3.1	18.6	10.8	1363	6.11	65.0	11.1	742.1	2.8	17	1.8	.4	.8	39	.41	.110	9	9.6	.73	47	.001	<.1	.41	.016	.19	.1	<.01	11.1	.2	2.10	1	<.5	2.9	.82
SND354-33	2.6	602.0	251.2	429	6.5	14.7	15.0	1395	7.76	176.0	12.9	5803.8	8.5	18	7.1	.7	1.7	28	.77	.276	22	3.4	.55	42	.003	1	.74	.012	.35	.3	.01	5.8	.2	3.51	2	<.5	7.7	2.44
SND354-34	2.2	426.4	266.9	326	4.9	14.9	15.9	1391	7.41	170.2	12.1	1870.1	8.6	18	4.6	.8	1.3	37	.77	.281	28	2.0	.60	59	.038	<.1	.75	.012	.38	.1	<.01	6.6	.4	3.23	3	<.5	5.7	2.88
SND355-40	2.8	327.6	218.3	192	10.9	1.2	3.7	315	2.60	78.4	7.7	2358.8	6.7	2	2.3	13.4	5.1	1	.05	.015	5	4.9	.03	36	.001	<.1	.17	.008	.17	1.0	.02	.2	.1	2.19	1	<.5	14.9	6.67
SND356-21	1.6	364.7	211.5	287	4.1	1.3	2.5	22	2.01	78.2	1.7	1601.8	.3	1	5.3	.6	.7	1	.01	.001	1	6.2	.01	63	<.001	<.1	.07	.003	.05	.2	.01	.2	<.1	1.83	<.1	<.5	5.7	1.73
SNSTD-15 PULP	12.2	212.9	355.5	240	4.6	278.0	19.0	442	2.89	164.3	2.2	14672.5	2.1	34	1.8	11.2	3.9	39	.86	.035	7	393.5	.49	144	.034	1	.99	.032	.30	6.9	.27	3.3	.5	.80	3	1.1	5.9	22.13
SNSTD-16 PULP	13.4	288.8	316.5	348	4.7	135.1	20.7	502	3.29	213.7	2.7	9870.0	1.8	43	2.5	16.9	3.7	46	1.09	.039	6	234.5	.46	104	.031	6	1.01	.028	.31	5.2	.37	4.1	.7	1.17	3	1.4	4.8	10.34
STANDARD DS5/	12.2	137.6	24.3	131	.3	24.8	11.9	776	3.00	18.8	5.7	42.5	2.5	46	5.5	3.6	5.9	59	.71	.093	11	179.3	.67	135	.090	26	2.10	.032	.13	4.8	.16	3.3	1.2	<.05	6	4.8	157.0	3.32

Standard is STANDARD DS5/R-2/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.
 UPPER LIMITS - AG, AU, HG, W = 100 PPM; MO, CO, CD, SB, BI, TH, U & B = 2,000 PPM; CU, PB, ZN, NI, MN, AS, V, LA, CR = 10,000 PPM.
 AG** & AU** BY FIRE ASSAY FROM 1 A.T. SAMPLE.
 - SAMPLE TYPE: CORE R150 60C

DATE RECEIVED: OCT 27 2003 DATE REPORT MAILED: *Nov 5/2003* SIGNED BY: *[Signature]* D. TOYE, C. LEONG, J. WANG; CERTIFIED B.C. ASSAYERS

GEOCHEMICAL ANALYSIS CERTIFICATE



Almaden Minerals Ltd. PROJECT ELK03-7. File # A305266

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 %	Ca %	P %	La ppm	Cr ppm	Mg %	Ba ppm	Ti %	B %	Al %	Na %	K %	W ppm	Hg ppm	Sc ppm	Tl ppm	S %	Ga ppm	Se ppm
SI	.2	1.6	2.5	7	.3	.5	.1	1	.01	<.5	<.1	10.9	<.1	4	<.1	.9	<.1	2.14	<.001	<.1	6.9	<.01	4	<.001	3	.01	.677	.01	<.1	.06	<.1	<.1	<.05	<.1	<.5	<.5
SND354-30	4.5	4426.8	837.8	1544	136.4	7.8	13.7	345	21.59	253.6	1.1	>99999	<.1	1	31.3	.7	116.7	4	.03	.005	<.1	144.5	.03	2	<.001	<.1	.04	.009	.03	.2	.11	1.0	<.1	27.75	<.1	.5
SND355-38	14.4	105.3	271.7	331	28.2	9.7	5.5	150	2.05	39.2	5.7	2747.7	5.5	3	5.7	1.7	162.0	2	.03	.009	6	245.0	.01	22	<.001	3	.18	.005	.15	.2	.11	.1	.1	2.16	1	<.5
STANDARD DS5	12.3	147.1	25.2	138	.3	24.5	12.8	787	3.06	20.0	6.3	43.7	2.7	49	5.8	3.1	6.4	62	.74	.099	14	191.2	.69	143	.102	18	2.17	.034	.14	4.8	.18	3.6	1.2	<.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.
UPPER LIMITS - AG, AU, HG, W = 100 PPM; MO, CO, CD, SB, BI, TH, U & B = 2,000 PPM; CU, PB, ZN, NI, MN, AS, V, LA, CR = 10,000 PPM.
- SAMPLE TYPE: CORE M150 60C

DATE RECEIVED: OCT 27 2003

DATE REPORT MAILED: Nov 12/03

SIGNED BY: *C. Leong* D. TOYE, C. LEONG, J. WANG; CERTIFIED B.C. ASSAYERS

ACME ANALYTICAL LABORATORIES LTD.
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3-1716



ASSAY CERTIFICATE



Almaden Minerals Ltd. PROJECT ELK03-7 File # A305266

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	<.01	<.3	<.3
SND354-30	900	15.89	491.4	509.1
SND355-38	1100	<.01	24.1	24.1

-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

DATE RECEIVED: OCT 27 2003 DATE REPORT MAILED: *Nov 12/03* SIGNED BY: *C.L.* D. TOYE, C. LEONG, J. WANG; CERTIFIED B.C. ASSAYERS

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ASSAY CERTIFICATE



Almaden Minerals Ltd. PROJECT ELK03-7 File # A305266

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
SND354-30	900	23.71	289.50	315.84
SND355-38	1100	.13	3.02	3.14

-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

DATE RECEIVED: OCT 27 2003 DATE REPORT MAILED: Nov 12/03 SIGNED BY: *C. Leong* D. TOYE, C. LEONG, J. WANG; CERTIFIED B.C. ASSAYERS



ASSAY CERTIFICATE

Almaden Minerals Ltd. PROJECT ELK03-7 File # A305266R
 1103 - 750 W. Pender St., Vancouver BC V6C 2T8 Submitted by: W. Jakubowski

SAMPLE#	Ag** gm/mt	Au** gm/mt
SND355-38 STANDARD GC-2/AU-1	26.4 1034.6	3.22 3.36

GROUP 6 - PRECIOUS METALS BY FIRE ASSAY FROM 1 A.T. SAMPLE, ANALYSIS BY ICP-ES.
 - SAMPLE TYPE: -150 CORE PULP

DATE RECEIVED: DEC 9 2003 DATE REPORT MAILED: *Dec 16/2003* SIGNED BY: *[Signature]* D. TOYE, C. LEONG, J. WANG; CERTIFIED B.C. ASSAYERS

* No reject

GEOCHEMICAL ANALYSIS CERTIFICATE

Almaden Minerals Ltd. PROJECT ELK03-7 File # A305267 Page 1

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



SAMPLE#	Au* ppb	Sample gm
SI	<.2	-
* SND351-42	97.2	1000
* SND351-43	57.6	600
* SND354-1	114.0	500
* SND354-2	56.4	500
* SND354-3	9.2	700
SND354-4	22.0	1100
SND354-5	137.8	2100
SND354-6	24.6	2000
SND354-7	184.9	1700
SND354-8	29.3	1400
SND354-9	65.8	1800
SND354-10	74.1	600
SND354-11	18.6	500
SND354-12	60.1	2700
SND354-13	33.3	1000
SND354-14	18.7	500
SND354-15	1.5	900
SND354-16	5781.9	1100
SND354-17	13.6	600
SND354-18	994.3	500
SND354-20	1258.4	600
RE SND354-20	1375.2	-
RRE SND354-20	748.2	-
SND354-22	273.4	600
SND354-23	193.3	700
SND354-24	272.9	1700
SND354-25	268.6	1700
SND354-26	107.0	1900
SND354-27	695.1	1100
SND354-28	14.6	1100
SND354-29	276.9	1900
SND354-31	19.0	2400
SND354-35	3.0	700
SND355-1	1211.4	500
STANDARD AU-R	465.0	-

REVISED COPY *

AU* IGNITED, ACID LEACHED, ANALYZED BY ICP-MS (15 gm)
ASSAY RECOMMENDED FOR ROCK AND CORE SAMPLES IF CU PB ZN AS > 1%, AG > 30 PPM & AU > 1000 PPB
- SAMPLE TYPE: CORE R150 60C
Samples beginning 'RE' are Reruns and 'RRE' are Reject Reruns.

DATE RECEIVED: OCT 27 2003 DATE REPORT MAILED: Nov 6/03 SIGNED BY: *[Signature]* D. TOYE, C. LEONG, J. WANG; CERTIFIED B.C. ASSAYERS



SAMPLE#	Au* ppb	Sample gm
SND355-2	200.5	1700
SND355-3	28.6	2400
SND355-4	6815.6	1000
SND355-5	932.0	800
SND355-6	96.4	600
SND355-7	510.2	1800
SND355-8	4359.1	600
SND355-9	1199.7	900
SND355-10	844.8	600
SND355-11	115.7	600
SND355-12	60.4	300
SND355-13	7.0	600
SND355-14	242.9	1000
SND355-15	139.9	600
SND355-16	42.5	900
SND355-17	212.9	900
SND355-18	11.3	1300
SND355-19	21.9	1500
SND355-20	101.1	700
RE SND355-20	29.4	-
RRE SND355-20	30.2	-
SND355-21	8.9	500
SND355-22	20.7	1000
SND355-23	13.6	500
SND355-24	5.5	700
SND355-25	207.1	600
SND355-26	243.7	600
SND355-27	321.1	500
SND355-28	285.3	600
SND355-29	43.6	600
SND355-30	242.2	900
SND355-31	50.2	500
SND355-32	51.3	200
SND355-33	.3	600
STANDARD AU-R	466.0	-

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



SAMPLE#	Au* ppb	Sample gm
SND355-34	60.8	500
SND355-35	3372.9	600
SND355-36	139.1	1000
SND355-37	7.5	2000
SND355-39	126.8	1800
SND355-41	81.1	600
SND355-42	467.5	1200
SND356-1	193.8	2200
SND356-2	381.3	2200
SND356-3	110.3	1800
SND356-4	328.1	1800
SND356-5	386.5	600
SND356-6	147.8	1400
SND356-7	223.1	1000
SND356-8	22.0	1200
SND356-9	58.3	1400
SND356-10	34.4	1000
RE SND356-10	39.1	-
RRE SND356-10	40.6	-
SND356-11	948.6	1800
SND356-12	644.4	2100
SND356-13	78.7	1900
SND356-14	1320.2	400
SND356-15	1319.5	1300
SND356-16	341.0	1300
SND356-17	4.9	1000
SND356-18	165.5	400
SND356-19	178.8	200
SND356-20	10.5	1100
SND356-22	2334.5	600
SND356-23	21.2	1100
SND357-1	640.0	800
SND357-2	31.0	800
SND357-3	175.4	900
STANDARD AU-R	471.5	-

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



SAMPLE#	Au* ppb	Sample gm
SND357-4	2424.6	2700
SND357-5	159.5	2000
SND357-6	43.1	1600
SND357-7	40096.4	700
SND357-8	122.0	1200
SND357-9	110.9	700
SNSTD-13 PULP	31706.3	-
SNSTD-14 PULP	9977.1	-
SNSTD-17 PULP	32044.0	-
STANDARD AU-R	470.0	-

Sample type: CORE R150 60C.



GEOCHEMICAL ANALYSIS CERTIFICATE



Almaden Minerals Ltd. PROJECT ELK03-7 File # A305267R

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	.2	4.6	6.2	2	.1	.2	<.1	3	.03	<.5	<.1	.8	<.1	6	<.1	.1	<.1	3	.24	<.001	<.1	1.6	<.01	6	<.001	2	.01	.988	.01	.1	<.01	.2	<.1	<.05	<.1	<.5
SND357-7	3.8	526.3	139.5	92	20.4	3.7	4.0	510	3.61	201.8	5.3	28000.0	8.9	5	2.4	30.1	48.5	5	.05	.018	10	11.6	.04	30	.001	3	.74	.028	.44	3.7	.13	.4	.1	2.72	2	<.5
STANDARD DS5	12.5	138.7	24.0	132	.3	23.8	12.1	748	3.00	17.9	5.9	42.0	2.7	47	5.3	3.8	6.0	58	.71	.093	13	177.9	.65	138	.093	16	1.97	.034	.13	4.9	.16	3.4	1.0	<.05	6	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.
UPPER LIMITS - AG, AU, HG, W = 100 PPM; MO, CO, CD, SB, BI, TH, U & B = 2,000 PPM; CU, PB, ZN, NI, MN, AS, V, LA, CR = 10,000 PPM.
- SAMPLE TYPE: CORE PULP

DATE RECEIVED: DEC 9 2003

DATE REPORT MAILED: Dec 18/03

SIGNED BY: *C. Leong* D. TOYE, C. LEONG, J. WANG; CERTIFIED B.C. ASSAYERS

ACME ANALYTICAL LABORATORIES LTD.
(ISO 9002 Accredited Co.)

852 E. HASTINGS ST.

VANCOUVER BC V6A 1R6

PHONE (604) 253-3158 FAX (604) 253-1716

3-1716



ASSAY CERTIFICATE



Almaden Minerals Ltd. PROJECT ELK03-7 File # A305267R
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
SND357-7	153	<.01	19.2	19.2

-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 PULP

DATE RECEIVED: DEC 9 2003 DATE REPORT MAILED: Dec 18/03 SIGNED BY:  D. TOYE, C. LEONG, J. WANG; CERTIFIED B.C. ASSAYERS

ACME ANALYTICAL LABORATORIES LTD.
(ISO 9002 Accredited Co.)

852 E. HASTINGS ST. VANCOUVER BC V6A 1R6

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3-1716

AA

AA

ASSAY CERTIFICATE

Almaden Minerals Ltd. PROJECT ELK03-7 File # A305267R
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
SND357-7	153	2.23	35.73	50.31

-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 PULP

DATE RECEIVED: DEC 9 2003

DATE REPORT MAILED: Dec 18/03

SIGNED BY: *C.L.* D. TOYE, C. LEONG, J. WANG; CERTIFIED B.C. ASSAYERS

GEOCHEMICAL ANALYSIS CERTIFICATE

Almaden Minerals Ltd. PROJECT ELK03-8 File # A305452

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



SAMPLE#	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P	La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Hg	Sc	Tl	S	Ga	Se
	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%	%	ppm	ppm	%	ppm	%	%	%	%	%	ppm	ppm	ppm	ppm	%	ppm	ppm
SI	.2	1.5	3.0	2	<.1	.4	<.1	2	.01	1.0	<.1	<.5	<.1	4	<.1	.1	<.1	7	.16	<.001	<.1	8.8	<.01	6	<.001	<.1	.01	.756	.01	<.1	<.01	.2	<.1	.08	<.1	<.5
SND358-23	5.9	187.9	2226.1	510	16.3	8.1	15.7	21	8.67	343.3	3.6	3440.1	3.2	6	13.1	4.9	6.1	1	.04	.011	3	156.2	.02	11	<.001	<.1	.20	.006	.17	.5	.12	.1	.1	15.78	1	.8
SND358-25	6.4	1622.8	525.4	224	117.9	9.6	9.7	27	4.33	119.1	1.3	45842.6	.3	1	8.7	49.0	45.1	<.1	.02	.007	1	209.8	.01	16	<.001	<.1	.08	.003	.07	.4	.36	<.1	.1	6.29	1	<.5
SND361-8	15.5	296.8	664.6	1233	10.4	9.3	6.5	405	3.52	200.5	1.9	1268.5	2.0	21	28.2	65.6	.9	4	.12	.035	5	211.0	.04	27	.001	<.1	.32	.003	.25	.4	.25	.7	.1	4.24	1	<.5
SND361-12	7.4	86.5	119.9	168	1.7	9.8	6.9	583	2.29	77.0	2.7	423.8	3.2	14	3.5	7.8	.4	4	.15	.053	6	221.5	.04	93	.001	<.1	.31	.004	.27	.3	.01	.7	.1	1.86	1	<.5
SND362-14	12.2	669.5	3278.6	1991	10.4	10.6	11.8	40	3.21	107.7	11.2	3603.7	4.8	41	50.3	20.1	2.2	4	.13	.050	10	253.5	.02	40	<.001	3	.27	.004	.23	.2	.41	.5	.1	4.77	1	<.5
SND362-17	21.9	4023.6	124.1	290	23.5	13.9	14.7	84	4.08	303.6	1.7	8389.7	1.2	25	6.8	639.2	3.9	1	.06	.010	5	212.3	.02	19	<.001	<.1	.18	.003	.10	.2	.44	<.1	.2	5.66	1	<.5
SND364-6	8.0	1350.0	305.7	142	47.3	9.3	5.2	42	3.76	177.1	10.2	21967.0	2.5	7	4.5	16.5	27.1	1	.02	.006	2	210.0	.02	20	.001	<.1	.24	.004	.21	.3	.06	<.1	.1	5.99	1	<.5
SND365-20	26.4	1264.0	2459.1	592	35.5	11.3	7.5	29	4.20	405.4	11.9	14159.0	2.1	17	22.8	50.5	10.0	1	.01	.003	5	258.1	.01	13	<.001	<.1	.16	.003	.13	.3	.22	<.1	.3	6.90	1	.5
SND365-21	5.1	27.2	131.8	83	.4	7.7	2.1	391	.66	7.6	11.6	111.7	27.8	19	.7	2.2	.3	4	.04	.004	18	209.7	.02	105	<.001	3	.27	.014	.13	.1	.03	<.1	.1	.13	1	<.5
STANDARD DS5	11.8	137.1	25.5	129	.3	23.0	11.8	750	2.92	18.9	6.2	40.8	3.0	46	5.8	4.1	6.7	59	.71	.090	12	187.2	.65	133	.093	18	2.12	.035	.14	5.2	.15	3.4	1.1	<.05	7	5.6

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.
UPPER LIMITS - AG, AU, HG, W = 100 PPM; MO, CO, CD, SB, BI, TH, U & B = 2,000 PPM; CU, PB, ZN, NI, MN, AS, V, LA, CR = 10,000 PPM.
- SAMPLE TYPE: CORE M150 60C

DATE RECEIVED: NOV 3 2003

DATE REPORT MAILED: Nov 20/03

SIGNED BY: *C. Leong* D. TOYE, C. LEONG, J. WANG; CERTIFIED B.C. ASSAYERS



ASSAY CERTIFICATE



Almaden Minerals Ltd. PROJECT ELK03-8 File # A305452

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	<.01	<.3	<.3
SND358-23	979	19.60	15.3	35.3
SND358-25	778	.73	107.9	108.9
SND361-8	749	.07	9.9	10.0
SND361-12	866	.12	2.2	2.3
SND362-14	880	<.01	10.5	10.5
SND362-17	890	<.01	22.5	22.5
SND364-6	1065	.71	49.5	50.1
SND365-20	1070	<.01	34.1	34.1
SND365-21	951	<.01	<.3	<.3

-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

DATE RECEIVED: NOV 3 2003

DATE REPORT MAILED: Nov 20/03

SIGNED BY: *CT* D. TOYE, C.LEONG, J. WANG; CERTIFIED B.C. ASSAYERS



ASSAY CERTIFICATE



Almaden Minerals Ltd. PROJECT ELK03-8 File # A305452
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
SND358-23	979	<.01	4.35	4.35
SND358-25	778	.93	48.54	49.74
SND361-8	749	<.01	1.26	1.26
SND361-12	866	.05	.83	.89
SND362-14	880	<.01	4.33	4.33
SND362-17	890	<.01	9.63	9.63
SND364-6	1065	1.19	17.07	18.19
SND365-20	1070	.07	14.40	14.47
SND365-21	951	<.01	.16	.16

-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

DATE RECEIVED: NOV 3 2003

DATE REPORT MAILED: Nov 20/03

SIGNED BY: *C. Leong* D. TOYE, C. LEONG, J. WANG; CERTIFIED B.C. ASSAYERS



GEOCHEMICAL ANALYSIS CERTIFICATE



Almaden Minerals Ltd. PROJECT ELK03-8 File # A305453 Page 1
1103 - 750 W. Pender St., Vancouver BC V6C 2T8 Submitted by: W. Jakubowski

SAMPLE#	Au* ppb	Sample gm
SND358-1	51.5	600
SND358-2	405.0	1300
SND358-3	94.9	1300
SND358-4	1178.8	900
SND358-5	166.2	700
SND358-6	14664.6	600
SND358-7	111.1	700
SND358-11	62.3	700
SND358-12	237.6	700
SND358-13	33.3	1000
SND358-14	17.1	1100
SND358-15	76.1	600
SND358-16	4.7	700
SND358-17	3.5	600
SND358-18	5.1	500
SND358-19	10.3	700
SND358-20	94.3	700
RE SND358-20	133.0	-
RRE SND358-20	182.8	-
SND358-21	574.8	700
SND358-22	16.2	2200
SND358-27	33.6	2400
SND358-28	122.4	2400
SND358-29	849.9	1000
SND358-30	341.3	600
SND358-31	16.1	600
SND358-32	157.6	1100
SND359-1	111.1	1900
SND359-2	14.5	2100
SND359-3	135.4	1300
SND359-4	1925.9	1400
SND359-5	554.0	1400
SND359-6	5.0	1700
SND359-7	4.8	1000
STANDARD AU-R	457.6	-

AU* IGNITED, ACID LEACHED, ANALYZED BY ICP-MS. (15 gm)
ASSAY RECOMMENDED FOR ROCK AND CORE SAMPLES IF CU PB ZN AS > 1%, AG > 30 PPM & AU > 1000 PPB
- SAMPLE TYPE: CORE R150 60C
Samples beginning 'RE' are Reruns and 'RRE' are Reject Reruns.

DATE RECEIVED: NOV 3 2003 DATE REPORT MAILED: Nov 17/03 SIGNED BY: *Ch...* D. TOYE, C. LEONG, J. WANG; CERTIFIED B.C. ASSAYERS



ACME ANALYTICAL



ACME ANALYTICAL

SAMPLE#	Au* ppb	Sample gm
SND359-8	2.0	1100
SND359-9	63.1	2000
SND359-10	64.1	2300
SND359-11	88.7	2200
SND359-12	29.2	700
SND359-13	57357.9	1200
SND359-14	60.0	1500
SND360-1	450.4	2300
SND360-2	231.9	2700
SND360-3	66.8	1100
SND360-4	237.1	900
SND360-5	250.2	700
SND360-6	133.7	700
SND360-7	128.1	700
SND360-8	200.2	600
SND360-9	13.4	700
SND360-10	924.8	700
RE SND360-10	4409.0	-
RRE SND360-10	1273.2	-
SND361-1	136.6	1000
SND361-2	265.5	2400
SND361-3	194.5	1300
SND361-4	17.9	800
SND361-5	14.0	2100
SND361-6	1024.5	1100
SND361-7	26.9	2300
SND361-9	47.0	2000
SND361-10	129.9	1400
SND361-11	77.5	1600
SND361-13	67.6	1400
SND361-14	184.3	1000
SND361-15	25.7	2000
SND361-16	2779.3	700
SND361-17	25996.6	800
STANDARD AU-R	470.0	-

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



SAMPLE#	Au* ppb	Sample gm
SND362-1	991.0	900
SND362-2	92.0	700
SND362-3	670.4	700
SND362-4	2938.7	700
SND362-5	363.1	1400
SND362-6	377.4	700
SND362-7	14.7	1000
SND362-8	289.4	2300
SND362-9	159.4	2200
SND362-11	43.8	2000
SND362-12	5.2	1900
SND362-13	73.5	1900
SND362-15	80.3	1900
SND362-16	34.0	2200
SND362-18	108.3	2300
RE SND362-18	103.9	-
RRE SND362-18	128.5	-
SND363-1	3144.9	700
SND363-2	9908.7	700
SND363-3	6120.3	1500
SND363-4	133.7	800
SND363-5	6357.6	900
SND363-6	22553.3	600
SND363-7	142.5	700
SND363-9	252.2	700
SND363-10	<.2	800
SND364-1	153.1	1000
SND364-2	3317.5	800
SND364-3	179.7	1300
SND364-4	51.4	1000
SND364-5	16.0	2000
SND364-7	16.8	1700
SND364-8	15.9	1000
SND364-9	5.6	800
STANDARD AU-R	474.0	-

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



SAMPLE#	Au* ppb	Sample gm
SND364-10	393.9	600
SND365-1	3843.8	800
SND365-2	98.4	900
SND365-3	659.5	800
SND365-4	323.2	700
SND365-5	30.8	800
SND365-6	2613.7	1000
SND365-7	2431.5	500
SND365-8	15669.9	300
SND365-9	17.7	500
SND365-10	31.6	700
SND365-11	553.2	700
SND365-12	15.5	1700
RE SND365-12	25.8	-
RRE SND365-12	31.3	-
SND365-13	298.2	800
SND365-14	14.3	1000
SND365-15	218.9	1400
SND365-16	16.4	900
SND365-17	507.2	800
SND365-18	20.2	2500
SND365-19	2676.0	1300
SND365-22	978.6	700
SND365-23	91.1	1700
SNSTD-19 PULP	33000.0	-
SNSTD-21 PULP	10298.6	-
SNSTD-23 PULP	10441.3	-
STANDARD AU-R	468.0	-

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



GEOCHEMICAL ANALYSIS CERTIFICATE



Almaden Minerals Ltd. PROJECT ELK03-8 File # A305453R
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 % ppm	La ppm	Cr ppm	Mg % ppm	Ba ppm	Ti % ppm	B %	Al %	Na %	K % ppm	W ppm	Hg ppm	Sc ppm	Tl ppm	S % ppm	Ga ppm	Se ppm	Ag** gm/mt	Au** gm/mt
SND358-6	2.0	182.7	133.4	105	5.7	1.4	3.5	203	1.49	117.9	9.2	10599.3	10.6	11	2.7	4.9	13.6	<1	.07	.018	14	3.4	.02	33<.001	5	.21	.010	.17	1.2	.05	.4	.1	1.40	1	<.5	6.8	14.47	
SND361-17	2.7	143.5	9.6	67	13.1	2.0	9.2	1740	5.37	16.6	3.5	23792.5	5.1	10	.3	.2	5.2	21	.36	.071	18	2.5	.29	60	.027	3	.51	.019	.29	.1	.08	3.6	.1	1.72	2	<.5	13.6	19.38
SND363-6	1.8	1897.1	140.4	93	4.6	1.4	2.1	467	2.18	32.6	3.4	10421.5	9.4	9	2.1	1.4	5.4	2	.07	.023	13	6.1	.03	91<.001	4	.17	.015	.14	.8	.02	.7	.1	1.73	1	<.5	5.9	15.97	
SND365-8	2.2	141.7	69.0	53	1.7	1.2	1.9	684	1.92	31.1	3.7	4567.6	8.6	4	.4	.6	8.7	2	.08	.023	16	4.5	.03	30<.001	2	.18	.014	.16	.9	.01	.7	.1	1.18	1	<.5	2.7	5.37	
STANDARD	12.2	138.2	25.6	130	.3	24.4	11.9	760	2.92	18.4	5.8	42.2	2.6	47	5.8	3.7	6.0	59	.71	.089	12	179.6	.65	132	.084	17	1.99	.032	.13	4.7	.15	3.4	1.0	<.05	6	4.8	1052.0	3.34

Standard is STANDARD DS5/GC-2/AU-1.

GROUP 10X - 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.
UPPER LIMITS - AG, AU, HG, W = 100 PPM; MO, CO, CD, SB, BI, TH, U & B = 2,000 PPM; CU, PB, ZN, NI, MN, AS, V, LA, CR = 10,000 PPM.
AG** & AU** BY FIRE ASSAY FROM 1 A.T. SAMPLE.
- SAMPLE TYPE: CORE PULP

DATE RECEIVED: DEC 9 2003 DATE REPORT MAILED: *Dec 16/2003* SIGNED BY: *[Signature]* D. TOYE, C. LEONG, J. WANG; CERTIFIED B.C. ASSAYERS

GEOCHEMICAL ANALYSIS CERTIFICATE

Almaden Minerals Ltd. PROJECT ELK03-8 File # A305453R2

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



SAMPLE#	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P	La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Hg	Sc	Tl	S	Ga	Se
	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%	%	ppm	ppm	%	ppm	%	%	%	%	%	ppm	ppm	ppm	ppm	%	ppm	ppm
SND359-13	5.9	252.0	147.1	139	8.4	7.3	2.9	506	2.73	39.6	4.7	22288.7	10.2	6	3.7	8.2	24.5	3	.05	.016	10	193.5	.02	55	<.001	4	.22	.015	.20	.1	.09	.3	.1	2.01	1	<.5
STANDARD DS5	12.5	135.3	24.8	130	.3	23.2	11.6	744	2.92	17.7	5.7	43.6	2.6	47	5.4	3.6	5.9	57	.69	.089	12	173.3	.64	137	.090	16	1.93	.032	.13	4.7	.16	3.4	1.0	.06	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.
UPPER LIMITS - AG, AU, HG, W = 100 PPM; MO, CO, CD, SB, BI, TH, U & B = 2,000 PPM; CU, PB, ZN, NI, MN, AS, V, LA, CR = 10,000 PPM.
- SAMPLE TYPE: CORE REJ.

DATE RECEIVED: DEC 9 2003 DATE REPORT MAILED: Dec 18/03 SIGNED BY: *C. Leong* D. TOYE, C. LEONG, J. WANG; CERTIFIED B.C. ASSAYERS



ASSAY CERTIFICATE



Almaden Minerals Ltd. PROJECT ELK03-8 File # A305453R2
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
SND359-13	941	<.01	9.9	9.9

-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.

DATE RECEIVED: DEC 9 2003 DATE REPORT MAILED: Dec 18/03 SIGNED BY: *C. Leong* D. TOYE, C. LEONG, J. WANG; CERTIFIED B.C. ASSAYERS



ASSAY CERTIFICATE



Almaden Minerals Ltd. PROJECT ELK03-8 File # A305453R2
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
SND359-13	941	1.23	21.94	23.25

-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.

DATE RECEIVED: DEC 9 2003 DATE REPORT MAILED: Dec 18/03 SIGNED BY: *C. Leong* D. TOYE, C. LEONG, J. WANG; CERTIFIED B.C. ASSAYERS

852 East Hastings St. Vancouver, BC V6A 1R6
Phone: (604) 253-3158 Fax: (604) 253-1716
Toll Free (North America only) : 1-800-990-2263
E-mail: clenns@acmelab.com

**ACME ANALYTICAL
LABORATORIES LTD.**

Fax Messages

To: Wojtek

Company: Almaden Minerals

Fax: 604-689-7645

Pages: 1

Phone:

Date: April 15, 2004

Re:

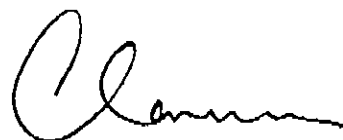
From: Clarence Leong

Urgent For Review Please Comment Please Reply Please Recycle

Dear Wojtek,

Here are the list of reference for file A401215,

SND336-5	1921	SND355-40	1936
SND337-2	1922	SND358-25 -150	1937
SND337-37 -150	1923	SND361-8 -150	1938
SND339-7	1924	SND362-17 -150	1939
SND340-34 -150	1925	SND364-6 -150	1940
SND342-1	1926	SND365-20 -150	1941
SND342-21	1927		
SND343-22	1928		
SND345-9	1929		
SND349-27	1930		
SND349-7	1931		
SND350-7	1932		
SND351-40	1933		
SND352-5	1934		
SND335-4	1935		





ASSAY CERTIFICATE



Almaden Minerals Ltd. File # A401215
1103 - 750 W. Pender St., Vancouver BC V6C 2T8 Submitted by: Wojtek Jakubowski

SAMPLE#

Ag** Au**
gm/mt gm/mt

1921	6	3.53
1922	5	.94
1923	145	26.86
1924	44	26.18
1925	69	22.15
1926	8	9.15
1927	46	19.98
1928	23	7.06
1929	7	3.70
1930	44	8.11
1931	67	10.83
1932	11	6.11
RE 1932	12	5.75
1933	6	1.50
1934	11	5.48
1935	13	6.85
1936	12	4.71
1937	117	48.95
1938	11	1.19
1939	24	9.69
1940	53	17.15
1941	36	14.44
STANDARD R-2a/AU-1	159	3.32

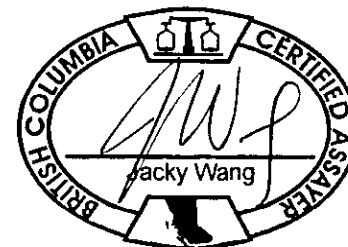
GROUP 6 - PRECIOUS METALS BY FIRE ASSAY FROM 1 A.T. SAMPLE, ANALYSIS BY ICP-ES.
- SAMPLE TYPE: CORE PULP
Samples beginning 'RE' are Reruns and 'RRE' are Reject Reruns.

Data ~~is~~ FA _____

DATE RECEIVED: MAR 30 2004

DATE REPORT MAILED:

Apr 8/2004





ALS Chemex

EXCELLENCE IN ANALYTICAL CHEMISTRY

ALS Canada Ltd.

212 Brooksbank Avenue

North Vancouver BC V7J 2C1 Canada

Phone: 604 984 0221 Fax: 604 984 0218

ALMADEN MINERALS LTD.

1103-750 W PENDER ST.

VANCOUVER BC V6C 2T8

Page: 2 - A

Total # Pages: 2 (A)

Date: 7-Jan-2004

Account: PFM

CERTIFICATE OF ANALYSIS VA03055382

Sample Description	Method Analyte Units LOR	WEI-21 Recvd Wt kg 0.02	Au-GR21 Au ppm 0.05
SND03336-5		0.22	6.02
SND03337-2		0.24	1.08
SND03337-37		0.88	27.8
SND03339-7		0.12	21.5
SND03340-34		0.84	18.35
SND03342-1		0.18	8.11
SND03342-21		0.74	20.0
SND03343-22		0.24	6.48
SND03345-9		0.18	4.43
SND03349-27		0.20	9.07
SND03349-7		0.24	7.35
SND03350-7		0.24	6.48
SND03351-40		0.20	1.61
SND03352-5		0.26	5.54
SND03355-4		0.24	7.80
SND03355-40		0.24	5.64
SND03358-25		0.72	48.9
SND03361-8		0.68	1.27
SND03362-17		0.84	9.86
SND03364-6		1.00	17.60
SND03365-20		1.02	14.90

Appendix "B"

Diamond Drill Hole Summary Logs

PROPERTY: _____ D.D.H. SK 5336 PAGE 1 of 4
 AREA: WD DIP: -87.0 AZIMUTH (°): 000.0 DEPTH: 213.36 m
 CLAIM: SNML NORTHING: 3480.65 DATE STARTED: 6-Aug-2003
 SECTION: 2370E EASTING: 2373.07 DATE FINISHED: 8-Aug-2003
 CORE SIZE: NQ ELEVATION: 1628.35 CONTRACTOR: Leclerc Drilling Lt
 CORE RECOVERY: 93.26% RQD: 29.71% CORE STORED AT: Elk Rack C Bay 27 LOGGED BY: WJ RH
 COMMENTS: Hole was drilled to test the WD zone at depth. A 10cm gouged qtz vein was intersected at the projected depth. Recoveries were poor due to mismatching of core tube.
 LCTM

SURVEY DATA			GEOLOGY AND ASSAY RECORDS													
Depth	Dip	Az (t)	From	To	Int.	T.W.	Geology	Sample No.	Rec. %	S.G.	Au oz/t	Au oz/t	Au oz/t	Au ppb	Ag oz/t	Ag ppm
.00	-87.0	000.0	.0	3.05	3.05		CS									
100.00	-88.0	000.0	3.05	6.25	3.20		QM									
			6.25	8.80	2.55		P1QM									
			8.80	11.06	2.26		K2QM									
			11.06	11.58	0.52		S3QM									
			11.58	14.75	3.17		K3QM									
			14.75	17.35	2.60		K4QM									
			17.35	17.36	0.01		QV									
			17.36	18.66	1.30		K5QM									
			18.66	21.00	2.34		P4QM									
			21.00	21.35	0.35		K3QM									
			21.35	28.20	6.85		P3QM									
			28.20	29.17	0.97		K2QM									
			29.17	33.50	4.33		P2QM									
			33.50	35.00	1.50		K2QM									
			35.00	36.40	1.40		P4QM									
			36.40	38.20	1.80		K3QM									
			38.20	38.33	0.13		KFQM									
			38.33	40.75	2.42		K4QM									
			40.75	40.90	0.15		KFQM									
			40.90	42.32	1.42		K4QM									
			42.32	42.40	0.08		P4QM									
			42.40	42.43	0.03		Y2QV									
			42.43	42.50	0.07		P4QM									
			42.50	44.50	2.00		K3QM									
			44.50	44.95	0.45		P4QM									
			44.95	46.50	1.55		K3QM									
			46.50	47.80	1.30		K1QM									
			47.80	51.00	3.20		P3QM									
			51.00	52.50	1.50		K3QM									
			52.50	54.68	2.18		P2QM									

CONTD

PROPERTY ELK D.D.H. SND03337 PAGE 1 OF 6
 AREA: WD DIP: -67.0 AZIMUTH (t): 003.0 DEPTH: 263.96 m
 CLAIM: SNML NORTHING: 3420.42 DATE STARTED: 8-Aug-2003
 SECTION: 2420E EASTING: 2419.53 DATE FINISHED: 14-Aug-2003
 CORE SIZE: NQ ELEVATION: 1632.27 CONTRACTOR: Leclerc Drilling Lt
 CORE RECOVERY: 91.78% RQD: 46.02% CORE STORED AT: Elk Rack C Bay 27 LOGGED BY: WJ RH
 COMMENTS: Hole was drilled to test the WD zone at depth. Hole steepened 1-2 degrees due to mislatch problem. 20 cm VGV intersected 30m below the projected depth due to hole deviation.
 LCTM

SURVEY DATA			GEOLOGY AND ASSAY RECORD													
Depth	Dip	Az (t)	From	To	Int.	T.W.	Geology	Sample No.	Rec. %	S.G.	Metallics			MIBK		
											Au oz/t	Au oz/t	Au oz/t	Au ppb	Aq oz/t	Aq ppm
.00	-67.0	003.0	.0	3.05	3.05		CS									
26.37	-71.3	003.0	3.05	8.90	5.85		P2QM									
52.73	-71.3	003.0	8.90	9.24	0.34		P3QM									
75.59	-75.0	003.0	9.24	9.38	0.14		NR									
98.45	-75.0	003.0	9.38	9.45	0.07		Y3QV									
121.31	-76.0	003.0	9.45	11.74	2.29		P2QM									
144.17	-76.0	003.0	11.74	13.10	1.36		P4QM									
167.03	-75.5	003.0	13.10	14.07	0.97		K2QM									
-67.0	003.0	.0	14.07	14.45	0.38		P5QM									
-71.3	003.0	3.05	14.45	14.70	0.25		P5QM									
			14.70	19.60	4.90		K2QM									
			19.60	21.45	1.85		K4QM									
			21.45	22.15	0.70		K2QM									
			22.15	22.90	0.75		P3QM									
			22.90	23.05	0.15		K3QM									
			23.05	23.23	0.18		P4QM									
			23.23	24.85	1.62		K4QM									
			24.85	27.40	2.55		K1QM									
			27.40	28.80	1.40		P1QM									
			28.80	30.90	2.10		QM									
			30.90	31.90	1.00		K1QM									
			31.90	38.90	7.00		QM									
			38.90	45.70	6.80		QM									
			45.70	54.70	9.00		P1QM									
			54.70	60.57	5.87		P1QM									
			60.57	66.72	6.15		QM									
			66.72	67.50	0.78		K1QM									
			67.50	72.78	5.28		QM									
			72.78	73.91	1.13		K2QM									
			73.91	73.93	0.02		GG									
			73.93	74.68	0.75		P4AD									

CONTD

PROPERTY ELK D.D.H. SND03338 PAGE 1 OF 8

AREA: WD DIP: -76.0 AZIMUTH (I): 000.0 DEPTH: 323.70 m
 CLAIM: SNML NORTHING: 3416.98 DATE STARTED: 15-Aug-2003
 SECTION: 2470E EASTING: 2469.77 DATE FINISHED: 18-Aug-2003
 CORE SIZE: NQ ELEVATION: 1637.56 CONTRACTOR: Leclerc Drilling Lt
 CORE RECOVERY: 96.22% RQD: 41.52% CORE STORED AT: Elk Rack C Bay 27 LOGGED BY: WJ RH

COMMENTS: Hole was drilled to test the WD zone at depth. The WD zone, 3g. tz veins 2 to 4cm over 1m, was intersected at the projected depth. The hole was terminated 30m below the WD zone.

LCTM

SURVEY DATA			GEOLOGY AND ASSAY RECORD													
Depth	Dip	Az (t)	From	To	Int.	T.W.	Geology	Sample No.	Rec. %	S.G.	metallics		FA	MIBK	Aq oz/t	Aq ppm
											Au oz/t	Au oz/t	Au oz/t	Au ppb		
.00	-76.0	000.0	.0	3.05	3.05		0.00									
25.30	-71.0	000.0	3.05	3.55	0.50											
50.60	-81.0	000.0	3.55	8.60	5.05		05									
120.70	-76.0	000.0	8.60	8.61	0.01		3.55									
128.93	-71.0	000.0	8.61	11.45	2.84		P20M									
187.76	-82.5	000.0	11.45	11.85	0.40		P30M									
233.48	-77.0	000.0	11.85	11.97	0.12		GGQV									
293.52	-77.0	000.0	11.97	12.15	0.18		P30M									
			12.15	12.90	0.75		P10M									
			12.90	13.60	0.70		P30M									
			13.60	17.40	3.80		P10M									
			17.40	17.90	0.50		P20M									
			17.90	22.05	4.15		P40M									
			22.05	22.33	0.28		P40M									
			22.33	23.50	1.17		P50M									
			23.50	24.55	1.05		P30M									
			24.55	24.90	0.35		P40M									
			24.95	25.08	0.13		GG									
			25.08	25.28	0.20		P50M									
			25.28	25.60	0.32		P40M									
			25.60	28.67	3.07		P40M									
			28.67	28.93	0.26		P50M									
			28.93	29.60	0.67		P40M									
			29.60	29.89	0.29		GG									
			29.89	30.05	0.16		P40M									
			30.05	30.22	0.17		P50M									
			30.22	32.15	1.93		P50M									
			32.15	32.40	0.25		P40M									
			32.40	33.45	1.05		P40M									
			33.45	33.94	0.49		R40M									
			33.94	34.72	0.78		P20M									

CONTD

PROPERTY ELK D.D.H. SND03338 PAGE 4 OF 8

AREA: _____ DIP: _____ AZIMUTH (t): _____ DEPTH: _____
 CLAIM: _____ NORTHING: _____ DATE STARTED: _____
 SECTION: _____ EASTING: _____ DATE FINISHED: _____
 CORE SIZE: _____ ELEVATION: _____ CONTRACTOR: _____
 CORE RECOVERY: _____ CORE STORED AT: _____ LOGGED BY: _____
 COMMENTS: _____

SURVEY DATA			GEOLOGY AND ASSAY RECORD													
Depth	Dip	Az (t)	From	To	Int.	T.W.	Geology	Sample No.	Rec. %	S.G.	metals		FA	MIBK	Ag oz/t	Ag ppm
											Au oz/t	Au oz/t	Au oz/t	Au ppb		
			145.77	145.88	0.11		GG									
			145.88	147.73	1.85		P4QM									
			147.73	149.63	1.90		P3QM									
			149.63	150.50	0.87		K2QM									
			150.50	151.20	0.70		P1QM									
			151.20	156.70	5.50		QM									
			156.70	157.65	0.95		P1QM									
			157.65	158.20	0.55		P2QM									
			158.20	159.50	1.30		K2QM									
			159.50	161.53	2.03		P2QM									
			161.53	162.30	0.77		K2QM									
			162.30	170.50	8.20		P2QM									
			170.50	170.82	0.32		AP									
			170.82	173.00	2.18		K1QM									
			173.00	174.85	1.85		P2QM									
			174.85	175.30	0.45		K1QM									
			175.30	177.00	1.70		P2QM									
			177.00	177.40	0.40		K1QM									
			177.40	184.55	7.15		P2QM									
			184.55	185.90	1.35		K3QM									
			185.90	187.65	1.75		P4QM									
			187.65	188.70	1.05		K1QM									
			188.70	189.30	0.60		K2QM									
			189.30	194.40	5.10		P1QM									
			194.40	195.45	1.05		K2QM									
			195.45	195.65	0.20		P1QM									
			195.65	196.11	0.46		K2QM									
			196.11	196.82	0.71		P3QM									
			196.82	200.70	3.88		P1QM									
			200.70	203.60	2.90		GD									
			203.60	204.00	0.40		AP									

CONTD

PROPERTY ELK D.D.H. SND03338 PAGE 6 OF 8

AREA: _____ DIP: _____ AZIMUTH (I): _____ DEPTH: _____
 CLAIM: _____ NORTHING: _____ DATE STARTED: _____
 SECTION: _____ EASTING: _____ DATE FINISHED: _____
 CORE SIZE: _____ ELEVATION: _____ CONTRACTOR: _____
 CORE RECOVERY: _____ CORE STORED AT: _____ LOGGED BY: _____
 COMMENTS: _____

SURVEY DATA			GEOLOGY AND ASSAY RECORD														
Depth	Dip	Az (t)	From	To	Int.	T.W.	Geology	Sample No.	Rec. %	S.G.	metallics		FA	MIBK	Ag oz/t	Ag ppm	
											Au oz/t	Au oz/t	Au oz/t	Au ppb			
			242.48	244.85	2.37		K2GD										
			244.85	247.05	2.20		GD										
			247.05	247.45	0.40		K2GD										
			247.45	249.32	1.87		GD										
			249.32	252.78	3.46		K2GD										
			252.78	256.15	3.37		GD										
			256.15	258.45	2.30		K1GD										
			258.45	259.50	1.05		K1GD										
			259.50	260.00	0.50		A2GD										
			260.00	260.25	0.25		A3GD										
			260.25	260.38	0.13		P4GG										
			260.38	260.75	0.37		GG										
			260.75	269.40	8.65		A3GD										
			269.40	273.50	4.10		K4GD										
			273.50	275.75	2.25		K3GD										
			275.75	276.25	0.50		K4GD										
			276.25	276.85	0.60		GGSH										
			276.85	279.68	2.83		K4GD										
			279.68	282.76	3.08		K3GD										
			282.76	284.40	1.64		K4GD										
			284.40	286.48	2.08		K5GD										
			286.48	289.98	3.50		K3GD										
			289.98	290.12	0.14		P5GD										
			290.57	290.63	0.06		Y20V										
			290.63	290.92	0.29		X2AD										
			290.92	291.00	0.08		Y30V										
			291.00	293.05	2.05		AD										
			293.05	296.30	3.25		K4GD										
			296.30	298.35	2.05		K3GD										
			298.35	302.75	4.40		K2GD										
			302.75	304.42	1.67		K4GD										

PROPERTY ELK D.D.H. SND03339 PAGE 1 OF 8
 AREA: WD DIP: -79.0 AZIMUTH (t): 005.0 DEPTH: 353.57 m
 CLAIM: SNML NORTHING: 3416.86 DATE STARTED: 19-Aug-2003
 SECTION: 2520E EASTING: 2519.92 DATE FINISHED: 25-Aug-2003
 CORE SIZE: NQ ELEVATION: 1646.31 CONTRACTOR: Leclerc Drilling Lt
 CORE RECOVERY: 96.67% RQD: 48.49% CORE STORED AT: Elk Rack C Bay 27 LOGGED BY: WJ RH
 COMMENTS: Hole was drilled to test the WD zone at depth. A 2cm pyritic quartz vein was intersected at the projected depth.

LCTM

SURVEY DATA			GEOLOGY AND ASSAY RECORD													
Depth	Dip	Az (t)	From	To	Int.	T.W.	Geology	Sample No.	Rec. %	S.G.	Au oz/t	Au oz/t	Au oz/t	Au ppb	Ag oz/t	Ag ppm
.00	-79.0	005.0	.0	4.88	4.88		NR									
26.82	-79.0	005.0	4.88	7.25	2.37		P3QM									
53.64	-79.3	005.0	7.25	7.40	0.15		GG									
96.93	-79.5	005.0	7.40	8.95	1.55		A2QM									
143.56	-80.5	005.0	8.95	12.70	3.75		P2QM									
199.95	-80.5	005.0	12.70	13.10	0.40		K2QM									
237.74	-80.5	005.0	13.10	14.15	1.05		P3QM									
284.38	-80.0	005.0	14.15	14.92	0.77		K2QM									
			14.92	15.50	0.58		P3QM									
			15.50	17.90	2.40		K2QM									
			17.90	18.85	0.95		P3QM									
			18.85	19.23	0.38		K1QM									
			19.23	34.20	14.97		P3QM									
			34.20	34.90	0.70		K4QM									
			34.90	38.95	4.05		P3QM									
			38.95	40.02	1.07		K2QM									
			40.02	40.04	0.02		GG									
			40.04	40.85	0.81		P4QM									
			40.85	41.87	1.02		K1QM									
			41.87	42.03	0.16		P3QM									
			42.03	43.16	1.13		K2QM									
			43.16	44.20	1.04		P4QM									
			44.20	44.53	0.33		F4QM									
			44.53	44.57	0.04		Y3QV									
			44.57	44.67	0.10		F5QM									
			44.67	46.52	1.85		P3QM									
			46.52	46.74	0.22		F5QM									
			46.74	47.33	0.59		K1QM									
			47.33	54.38	7.05		P2QM									
			54.38	54.52	0.14		P3QM									
			54.52	56.70	2.18		P2QM									

CONTD

PROPERTY ELK D.D.H. SND03339 PAGE 6 OF 8

AREA: _____ DIP: _____ AZIMUTH (I): _____ DEPTH: _____
 CLAIM: _____ NORTHING: _____ DATE STARTED: _____
 SECTION: _____ EASTING: _____ DATE FINISHED: _____
 CORE SIZE: _____ ELEVATION: _____ CONTRACTOR: _____
 CORE RECOVERY: _____ CORE STORED AT: _____ LOGGED BY: _____
 COMMENTS: _____

SURVEY DATA			GEOLOGY AND ASSAY RECORD													
Depth	Dip	Az (t)	From	To	Int.	T.W.	Geology	Sample No.	Rec. %	S.G.	metallics		FA	MIBK	Ag oz/t	Ag ppm
											Au oz/t	Au oz/t	Au oz/t	Au ppb		
			266.40	266.80	0.40		K1GD									
			266.80	266.95	0.15		AP									
			266.95	267.95	1.00		K2GD									
			267.95	274.10	6.15		K2GD									
			274.10	274.42	0.32		SHGD									
			274.42	284.20	9.78		K3GD									
			284.20	285.08	0.88		GD									
			285.08	290.72	5.64		K2GD									
			290.72	293.45	2.73		GD									
			293.45	294.07	0.62		K1GD									
			294.07	294.52	0.45		K4GD									
			294.52	295.21	0.69		P3GD									
			295.21	296.10	0.89		K4GD									
			296.10	297.32	1.22		K3GD									
			297.32	297.51	0.19		F4GG									
			297.51	298.20	0.69		K4GD									
			298.20	298.70	0.50		F4GD									
			298.70	300.50	1.80		K4GD									
			300.50	300.92	0.42		K3GD									
			300.92	301.26	0.34		P4GD									
			301.26	308.53	7.27		K4GD									
			304.06	304.30	0.24		P4GD									
			308.15	309.50	1.35		F4GD									
			309.50	310.40	0.90		K4GD									
			310.40	310.95	0.55		P4AD									
			310.95	311.60	0.65		K4GD									
			311.60	313.65	2.05		P3AD									
			313.65	314.15	0.50		K4GD									
			314.15	321.73	7.58		K5GD									
			321.73	322.03	0.30		K4GD									
			322.03	322.60	0.57		P5GD									

CONTD

PROPERTY ELK D.D.H. SND03340 PAGE 5 OF 7

AREA: _____ DIP: _____ AZIMUTH (t): _____ DEPTH: _____
 CLAIM: _____ NORTHING: _____ DATE STARTED: _____
 SECTION: _____ EASTING: _____ DATE FINISHED: _____
 CORE SIZE: _____ ELEVATION: _____ CONTRACTOR: _____
 CORE RECOVERY: _____ CORE STORED AT: _____ LOGGED BY: _____
 COMMENTS: _____

SURVEY DATA			GEOLOGY AND ASSAY RECORD										FA	MIBK		
Depth	Dip	Az (t)	From	To	Int.	T.W.	Geology	Sample No.	Rec. %	S.G.	Au oz/t	Au oz/t	Au oz/t	Au ppb	Ag oz/t	Ag ppb
			249.25	250.25	1.00		K2QM									
			250.25	250.42	0.17		K4QM									
			250.42	251.15	0.73		K2AP									
			251.15	253.05	1.90		K3QM									
			253.05	253.18	0.13		AD									
			253.18	253.67	0.49		P2QM									
			253.67	265.60	11.93		K3QM									
			265.60	266.77	1.17		K4QM									
			266.77	267.05	0.28		P3QM									
			267.05	267.20	0.15		K5QM									
			267.20	267.25	0.05		GG									
			267.25	267.56	0.31		K5QM									
			267.56	267.92	0.36		GG									
			267.92	268.49	0.57		Y3QV									
			268.49	268.51	0.02		GG									
			268.51	268.85	0.34		P5QM									
			268.85	269.00	0.15		P3QM									
			269.00	275.21	6.21		K3QM									
			275.21	276.25	1.04		A4QM									
			276.25	276.43	0.18		P5GG									
			276.43	277.23	0.80		K5QM									
			277.23	277.49	0.26		P4QM									
			277.49	290.50	13.01		K3QM									
			286.45	286.57	0.12		P5QM									
			290.50	292.30	1.80		K4QM									
			292.30	292.65	0.35		K5AP									
			292.65	295.83	3.18		K4QM									
			295.83	296.93	1.10		A4QM									
			296.93	298.44	1.51		K3GD									
			298.44	299.20	0.76		K4GD									
			299.20	301.75	2.55		K3GD									

PROPERTY ELK D.D.H. SND03340 PAGE 6 OF 7

AREA: _____ DIP: _____ AZIMUTH (t): _____ DEPTH: _____
 CLAIM: _____ NORTHING: _____ DATE STARTED: _____
 SECTION: _____ EASTING: _____ DATE FINISHED: _____
 CORE SIZE: _____ ELEVATION: _____ CONTRACTOR: _____
 CORE RECOVERY: _____ CORE STORED AT: _____ LOGGED BY: _____
 COMMENTS: _____

SURVEY DATA			GEOLOGY AND ASSAY RECORD										FA	MIBK	Ag oz/t	Ag ppm
Depth	Dip	Az (t)	From	To	Int.	T.W.	Geology	Sample No.	Rec. %	S.G.	Au oz/t	Au oz/t	Au oz/t	Au ppb	Ag oz/t	Ag ppm
			301.75	304.00	2.25		K4GD									
			304.00	306.93	2.93		K5GD									
			.0	.0	0.00	00.00		340-6						00057		
			13.30	13.60	0.30	00.29		340-1						00441		
			41.35	41.65	0.30	00.30		340-2						00207		
			47.20	47.80	0.60	00.58		340-3						03794		
			50.10	50.40	0.30	00.30		340-5			1.235			51080	0.177	
			54.10	55.25	1.15	01.08		340-7						00095		
			57.10	57.55	0.45	00.39		340-8						00281		
			57.80	58.15	0.35	00.33		340-9						00427		
			60.20	61.20	1.00	00.50		340-10						00018		
			64.10	64.40	0.30	00.28		340-11						00208		
			66.25	66.55	0.30	00.17		340-12						00042		
			67.75	68.30	0.55	00.32		340-13						00003		
			68.30	68.60	0.30	00.28		340-14						03734		
			68.60	69.60	1.00	00.87		340-15						00137		
			69.60	70.90	1.30	01.22		340-16						00219		
			75.85	76.15	0.30	00.28		340-17						00053		
			79.00	79.40	0.40	00.38		340-18						00249		
			80.00	81.05	1.05	00.99		340-19						00058		
			81.90	82.55	0.65	00.56		340-20						00133		
			83.32	83.70	0.38	00.36		340-21						00582		
			229.55	229.87	0.32	00.29		340-22						00472		
			244.70	245.10	0.40	00.33		340-23						00017		
			245.75	246.90	1.15	01.08		340-25						00148		
			248.70	249.00	0.30	00.26		340-27						00939		
			256.45	256.75	0.30	00.19		340-28						00026		
			258.75	259.05	0.30	00.23		340-29						00031		
			260.10	260.40	0.30	00.19		340-30						00134		

PROPERTY ELK D.D.H. SND03340 PAGE 7 OF 7

AREA: _____ DIP: _____ AZIMUTH (t): _____ DEPTH: _____
 CLAIM: _____ NORTHING: _____ DATE STARTED: _____
 SECTION: _____ EASTING: _____ DATE FINISHED: _____
 CORE SIZE: _____ ELEVATION: _____ CONTRACTOR: _____
 CORE RECOVERY: _____ CORE STORED AT: _____ LOGGED BY: _____
 COMMENTS: _____

SURVEY DATA			GEOLOGY AND ASSAY RECORD													
Depth	Dip	Az (t)	From	To	Int.	T.W.	Geology	Sample No.	Rec. %	S.G.	metallics		FA	MIBK		
											Au oz/t	Au oz/t	Au oz/t	Au ppb	Ag oz/t	Ag ppm
			266.20	267.20	1.00	00.87		340-31						00115		
			267.20	267.56	0.36	00.31		340-32						00465		
			267.56	267.92	0.36	00.31		340-33						00491		
			267.92	268.48	0.56	00.49		340-34			0.642				0.951	
			268.48	269.50	1.02	00.88		340-35					0.029			
			270.75	271.10	0.35	00.33		340-36						00041		
			276.15	276.45	0.30	00.26		340-37						00051		
			277.20	277.50	0.30	00.27		340-38						00095		
			286.40	286.70	0.30	00.28		340-39						00022		
			287.60	287.90	0.30	00.28		340-40						00054		
			300.55	301.15	0.60	00.54		340-41						00055		

PROPERTY ELK D.D.H. SND03342 PAGE 7 OF 8

AREA: _____ DIP: _____ AZIMUTH (t): _____ DEPTH: _____
 CLAIM: _____ NORTHING: _____ DATE STARTED: _____
 SECTION: _____ EASTING: _____ DATE FINISHED: _____
 CORE SIZE: _____ ELEVATION: _____ CONTRACTOR: _____
 CORE RECOVERY: _____ CORE STORED AT: _____ LOGGED BY: _____
 COMMENTS: _____

SURVEY DATA			GEOLOGY AND ASSAY RECORD										FA	MIBK	Ag oz/t	Ag ppm
Depth	Dip	Az (t)	From	To	Int.	T.W.	Geology	Sample No.	Rec. %	S.G.	Au oz/t	Au oz/t	Au oz/t	Au ppb	Ag oz/t	Ag ppm
			314.60	315.68	1.08		A3GD									
			315.68	316.08	0.40		P5GD									
			316.08	317.00	0.92		A2GD									
			317.00	317.33	0.33		P5GD									
			317.33	319.90	2.57		K2GD									
			319.90	320.80	0.90		P4GD									
			320.80	322.15	1.35		A4GD									
			322.15	332.23	10.08		K5GD									
			.0	.0	0.00	00.00		342-4						00035		
			52.00	52.30	0.30	00.23		342-1					0.233	19221		
			59.60	60.15	0.55	00.52		342-2					0.494	22228		
			60.15	60.70	0.55	00.52		342-5						00560		
			60.70	61.50	0.80	00.75		342-6						00157		
			63.80	64.61	0.81	00.78		342-7						01862		
			66.15	66.45	0.30	00.28		342-8						00439		
			73.30	73.60	0.30	00.29		342-9						00066		
			75.70	76.10	0.40	00.39		342-10						00676		
			77.10	77.63	0.53	00.52		342-11						00279		
			81.38	81.68	0.30	00.30		342-12						02767		
			95.49	96.51	1.02	00.96		342-13						00684		
			104.10	104.50	0.40	00.39		342-14						00111		
			105.25	105.55	0.30	00.30		342-15						00006		
			144.10	144.50	0.40	00.38		342-16						00045		
			168.00	168.80	0.80	00.57		342-17						00083		
			233.50	234.10	0.60	00.21		342-18						02032		
			286.45	287.20	0.75	00.65		342-19						00109		
			311.95	312.95	1.00	00.77		342-20						00019		
			312.95	313.27	0.32	00.25		342-21			0.587				0.575	
			313.27	314.10	0.83	00.64		342-23					0.097			

PROPERTY ELK D.D.H. SND03343 PAGE 3 OF 6

AREA: _____ DIP: _____ AZIMUTH (t): _____ DEPTH: _____
 CLAIM: _____ NORTHING: _____ DATE STARTED: _____
 SECTION: _____ EASTING: _____ DATE FINISHED: _____
 CORE SIZE: _____ ELEVATION: _____ CONTRACTOR: _____
 CORE RECOVERY: _____ CORE STORED AT: _____ LOGGED BY: _____
 COMMENTS: _____

SURVEY DATA			GEOLOGY AND ASSAY RECORD														
Depth	Dip	Az (t)	From	To	Int.	T.W.	Geology	Sample No.	Rec. %	S.G.	metallics		FA	MIBK	Ag oz/t	Ag ppm	
											Au oz/t	Au oz/t	Au oz/t	Au ppb			
			102.99	103.10	0.11		P2QM										
			103.10	103.30	0.20		P3QM										
			103.30	103.45	0.15		P3QM										
			103.45	103.92	0.47		P1QM										
			103.92	110.40	6.48		QM										
			110.14	111.20	1.06		P3QM										
			111.20	111.38	0.18		PKQM										
			111.38	111.63	0.25		P4QM										
			111.63	112.20	0.57		K2QM										
			112.20	112.46	0.26		P4QM										
			112.46	112.58	0.12		PKQM										
			112.58	112.75	0.17		P5QM										
			112.75	112.90	0.15		K2QM										
			112.90	123.95	11.05		QM										
			123.95	125.75	1.80		P1QM										
			124.90	133.63	8.73		QM										
			133.63	138.73	5.10		P1QM										
			138.73	140.51	1.78		K3QM										
			140.51	141.10	0.59		A3AD										
			141.10	142.29	1.19		K3QM										
			142.29	143.08	0.79		P3AD										
			143.29	144.00	0.71		K2QM										
			144.00	144.45	0.45		P2QM										
			144.45	145.52	1.07		P1QM										
			145.52	149.50	3.98		QM										
			149.50	150.12	0.62		P1QM										
			150.12	153.90	3.78		P2QM										
			153.90	154.43	0.53		P3QM										
			154.43	159.11	4.68		P1QM										
			159.11	160.06	0.95		P2QM										
			160.06	175.14	15.08		P1QM										

PROPERTY ELK D.D.H. SND03343 PAGE 4 OF 6

AREA: _____ DIP: _____ AZIMUTH (t): _____ DEPTH: _____
 CLAIM: _____ NORTHING: _____ DATE STARTED: _____
 SECTION: _____ EASTING: _____ DATE FINISHED: _____
 CORE SIZE: _____ ELEVATION: _____ CONTRACTOR: _____
 CORE RECOVERY: _____ CORE STORED AT: _____ LOGGED BY: _____
 COMMENTS: _____

SURVEY DATA			GEOLOGY AND ASSAY RECORD													
Depth	Dip	Az (t)	From	To	Int.	T.W.	Geology	Sample No.	Rec. %	S.G.	metallics		FA	MIBK	Ag oz/t	Ag ppm
											Au oz/t	Au oz/t	Au oz/t	Au ppb		
			175.14	179.80	4.66		P3QM									
			179.80	187.02	7.22		P4QM									
			187.02	194.75	7.73		P3QM									
			194.75	195.25	0.50		K4QM									
			195.25	198.20	2.95		P3QM									
			198.20	199.85	1.65		K2AP									
			199.85	200.60	0.75		P3QM									
			200.60	219.11	18.51		P1QM									
			219.10	219.33	0.23		F4QM									
			219.33	225.67	6.34		P3QM									
			225.67	227.53	1.86		P1QM									
			227.53	231.46	3.93		P3QM									
			231.46	238.57	7.11		K1QM									
			238.57	239.45	0.88		K3QM									
			239.45	241.63	2.18		K2QM									
			241.63	242.53	0.90		K4QM									
			242.53	244.45	1.92		P3QM									
			244.45	247.45	3.00		K2QM									
			247.45	256.28	8.83		P3QM									
			256.28	257.03	0.75		K2QM									
			257.03	261.02	3.99		P2QM									
			261.02	262.10	1.08		K2QM									
			262.10	263.55	1.45		P3QM									
			263.55	276.48	12.93		P2QM									
			276.48	277.05	0.57		K2QM									
			277.05	277.33	0.28		P2AD									
			277.33	279.25	1.92		K2QM									
			279.25	281.65	2.40		P2QM									
			281.65	288.85	7.20		K3QM									
			288.85	289.00	0.15		F4QM									
			289.00	290.85	1.85		FKQM									

PROPERTY ELK D.D.H. SND03343 PAGE 6 OF 6

AREA: _____ DIP: _____ AZIMUTH (t): _____ DEPTH: _____
 CLAIM: _____ NORTHING: _____ DATE STARTED: _____
 SECTION: _____ EASTING: _____ DATE FINISHED: _____
 CORE SIZE: _____ ELEVATION: _____ CONTRACTOR: _____
 CORE RECOVERY: _____ CORE STORED AT: _____ LOGGED BY: _____
 COMMENTS: _____

SURVEY DATA

GEOLOGY AND ASSAY RECORD

Depth	Dip	Az (t)	SURVEY DATA				GEOLOGY AND ASSAY RECORD							FA		MIBK	
			From	To	Int.	T.W.	Geology	Sample No.	Rec. %	S.G.	Au oz/t	Au oz/t	Au oz/t	Au ppb	Ag oz/t	Ag ppm	
			103.00	103.45	0.45	00.44										00074	
			110.94	111.38	0.44	00.41										00039	
			112.00	112.90	0.90	00.85										00015	
			228.00	228.30	0.30	00.27										00214	
			283.60	283.90	0.30	00.22										00163	
			287.70	288.10	0.40	00.28						0.030					
			288.10	288.85	0.75	00.53										00194	
			288.85	289.30	0.45	00.32										00429	
			289.30	289.63	0.33	00.23						0.203					
			289.63	290.10	0.47	00.41						0.100					
			290.10	290.85	0.75	00.53										00087	
			292.75	293.35	0.60	00.39										00194	
			294.35	294.65	0.30	00.28										00014	
			295.35	295.70	0.35	00.34										00416	

PROPERTY ELK D.D.H. SND03344 PAGE 1 OF 3
 AREA: WD DIP: -75.0 AZIMUTH (t): 000.0 DEPTH: 134.11 m
 CLAIM: SNML NORTHING: 3575.57 DATE STARTED: 21-Sep-2003
 SECTION: 2620E EASTING: 2619.30 DATE FINISHED: 24-Sep-2003
 CORE SIZE: NQ ELEVATION: 1636.22 CONTRACTOR: Leclerc Drilling Lt
 CORE RECOVERY: 97.76% ROD: 40.26% CORE STORED AT: Elk Rack C Bay 27 LOGGED BY: WJ RH
 COMMENTS: Hole was drilled to test the WD zone at depth, a 1cm Y3QV was intersected about 10m deeper than expected.
 I.C.T.M.

SURVEY DATA			GEOLOGY AND ASSAY RECORD													
Depth	Dip	Az (t)	From	To	Int.	T.W.	Geology	Sample No.	Rec. %	S.G.	Au oz/t	Au oz/t	PA	MIBK	Ag oz/t	Ag ppm
.00	-75.0	000.0	.0	3.05	3.05		CS									
24.08	-75.3	000.0	3.05	11.70	8.65		P30M									
88.24	-75.5	000.0	11.70	16.03	4.33		P40M									
			16.03	18.73	2.70		P30M									
			18.73	20.12	1.39		K30M									
			20.12	22.00	1.88		P30M									
			22.00	22.80	0.80		P50M									
			22.80	24.15	1.35		K50M									
			24.15	25.00	0.85		K40M									
			25.00	25.33	0.33		P40M									
			25.33	26.49	1.16		K30M									
			26.49	27.14	0.65		P40M									
			27.14	27.56	0.42		K30M									
			27.56	28.82	1.26		P30M									
			28.82	29.18	0.36		K20M									
			29.18	30.25	1.07		P40M									
			30.25	32.02	1.77		P30M									
			32.02	34.67	2.65		P40M									
			34.67	35.01	0.34		K10M									
			35.01	35.47	0.46		P50M									
			35.47	35.75	0.28		K20M									
			35.75	36.60	0.85		P30M									
			36.60	37.42	0.82		K20M									
			37.42	38.60	1.18		P30M									
			38.60	39.03	0.43		P40M									
			39.03	40.17	1.14		K30M									
			40.17	41.20	1.03		P40M									
			41.20	41.80	0.60		K30M									
			41.80	42.03	0.23		P40M									
			42.03	42.62	0.59		K30M									
			42.62	47.65	5.03		P30M									

CONTD

PROPERTY ELK D.D.H. SND03344 PAGE 3 OF 3

AREA: _____ DIP: _____ AZIMUTH (t): _____ DEPTH: _____
 CLAIM: _____ NORTHING: _____ DATE STARTED: _____
 SECTION: _____ EASTING: _____ DATE FINISHED: _____
 CORE SIZE: _____ ELEVATION: _____ CONTRACTOR: _____
 CORE RECOVERY: _____ CORE STORED AT: _____ LOGGED BY: _____
 COMMENTS: _____

SURVEY DATA			GEOLOGY AND ASSAY RECORD													
Depth	Dip	Az (t)	From	To	Int.	T.W.	Geology	Sample No.	Rec. %	S.G.	metallics		FA	MIBK	Ag oz/t	Ag ppm
											Au oz/t	Au oz/t	Au oz/t	Au pph		
			114.55	114.85	0.30		P30M									
			115.05	115.20	0.15		P40M									
			115.20	115.30	0.10		K40M									
			115.30	123.10	7.80		P30M									
			123.10	123.95	0.85		K30M									
			123.95	126.77	2.82		P20M									
			126.77	127.49	0.72		K30M									
			127.49	128.50	1.01		P30M									
			128.50	134.11	5.61		K30M									
			18.95	19.60	0.65	00.64		344-1						00045		
			83.81	84.30	0.49	00.32		344-2						00042		
			87.40	88.15	0.75	00.38		344-3						00394		
			115.00	115.30	0.30	00.28		344-4						01572		

PROPERTY ELK D.D.H. SND03346 PAGE 2 OF 4

AREA: _____ DIP: _____ AZIMUTH (t): _____ DEPTH: _____
 CLAIM: _____ NORTHING: _____ DATE STARTED: _____
 SECTION: _____ EASTING: _____ DATE FINISHED: _____
 CORE SIZE: _____ ELEVATION: _____ CONTRACTOR: _____
 CORE RECOVERY: _____ CORE STORED AT: _____ LOGGED BY: _____
 COMMENTS: _____

SURVEY DATA			GEOLOGY AND ASSAY RECORD														
Depth	Dip	Az (t)	From	To	Int.	T.W.	Geology	Sample No.	Rec. %	S.G.	metallics		FA	MIBK		Ag ppm	
											Au oz/t	Au oz/t	Au oz/t	Au ppb	Ag oz/t		
			37.57	39.06	1.49		P30M										
			39.06	39.40	0.34		K30M										
			39.40	42.79	3.39		P40M										
			40.40	40.71	0.31		P40M										
			42.79	43.84	1.05		K20M										
			43.84	47.68	3.84		P30M										
			47.68	54.07	6.39		P20M										
			54.07	58.12	4.05		P10M										
			58.12	58.45	0.33		P30M										
			58.45	58.52	0.07		P30M										
			58.52	59.37	0.85		K10M										
			59.37	60.40	1.03		P20M										
			60.40	63.90	3.50		P30M										
			63.90	68.75	4.85		P20M										
			68.75	69.00	0.25		K30M										
			69.00	72.08	3.08		P30M										
			70.63	71.90	1.27		P40M										
			72.08	73.08	1.00		K20M										
			73.08	78.65	5.57		P30M										
			78.65	79.46	0.81		K30M										
			79.46	84.70	5.24		P30M										
			84.70	89.65	4.95		P20M										
			89.65	90.20	0.55		K30M										
			90.06	90.68	0.62		P30M										
			90.68	91.03	0.35		K10M										
			91.03	92.64	1.61		P30M										
			92.64	95.10	2.46		P20M										
			95.10	98.00	2.90		P30M										
			98.00	102.90	4.90		P20M										
			102.90	113.20	10.30		P10M										
			113.20	116.92	3.72		P30M										

PROPERTY ELK D.D.H. SND03346 PAGE 3 OF 4

AREA: _____ DIP: _____ AZIMUTH (t): _____ DEPTH: _____
 CLAIM: _____ NORTHING: _____ DATE STARTED: _____
 SECTION: _____ EASTING: _____ DATE FINISHED: _____
 CORE SIZE: _____ ELEVATION: _____ CONTRACTOR: _____
 CORE RECOVERY: _____ CORE STORED AT: _____ LOGGED BY: _____
 COMMENTS: _____

SURVEY DATA			GEOLOGY AND ASSAY RECORD													
Depth	Dip	Az (t)	From	To	Int.	T.W.	Geology	Sample No.	Rec. %	S.G.	metallics		PA	MTBK	Ag oz/t	Ag ppm
											Au oz/t	Au oz/t	Au oz/t	Au ppb		
			116.92	124.40	7.48		QM									
			124.40	127.77	3.37		P1QM									
			127.77	139.53	11.76		QM									
			139.53	140.95	1.42		P1QM									
			140.95	141.10	0.15		K3QM									
			141.10	147.40	6.30		P3QM									
			147.40	148.12	0.72		K3QM									
			148.12	150.50	2.38		P5QM									
			150.50	152.58	2.08		K3QM									
			152.58	152.80	0.22		P5QM									
			152.80	153.80	1.00		Y20V									
			153.80	154.87	1.07		K5QM									
			154.87	157.05	2.18		K3QM									
			157.05	158.43	1.38		K4QM									
			158.43	159.05	0.62		A4QM									
			159.05	163.63	4.58		K5QM									
			163.63	165.30	1.67		A5QM									
			165.30	167.05	1.75		K5QM									
			167.05	167.70	0.65		K5AP									
			167.70	171.00	3.30		K5QM									
			171.00	172.70	1.70		K2QM									
			172.70	173.95	1.25		K5QM									
			173.95	174.37	0.42		K3QM									
			174.37	176.00	1.63		K4QM									
			176.00	178.78	2.78		K3QM									
			178.78	181.07	2.29		K5QM									
			181.07	182.07	1.00		K5AP									
			182.07	186.23	4.16		K5QM									
			0	0	0.00	00.00		346-10						00416		

PROPERTY ELK D.D.H. SND03347 PAGE 4 OF 4

AREA: _____ DIP: _____ AZIMUTH (t): _____ DEPTH: _____
 CLAIM: _____ NORTHING: _____ DATE STARTED: _____
 SECTION: _____ EASTING: _____ DATE FINISHED: _____
 CORE SIZE: _____ ELEVATION: _____ CONTRACTOR: _____
 CORE RECOVERY: _____ CORE STORED AT: _____ LOGGED BY: _____
 COMMENTS: _____

SURVEY DATA			GEOLOGY AND ASSAY RECORD													
Depth	Dip	Az (t)	From	To	Int.	T.W.	Geology	Sample No.	Rec. %	S.G.	metallics		FA	MTBK	Ag oz/t	Ag ppm
											Au oz/t	Au oz/t	Au oz/t	Au ppb		
			222.58	222.82	0.24		Y5QM									
			222.82	224.77	1.95		K4QM									
			224.77	232.56	7.79		K5QM									
			.0	.0	0.00	00.00		347-12						00012		
			17.50	18.00	0.50	00.50		347-1						00026		
			28.13	29.25	1.12	01.05		347-2						04356		
			33.40	33.70	0.30	00.30		347-3						00177		
			43.00	43.30	0.30	00.29		347-4						01604		
			49.30	49.65	0.35	00.35		347-5						00192		
			50.60	50.90	0.30	00.30		347-6						00618		
			52.05	52.35	0.30	00.30		347-7						00243		
			59.00	59.35	0.35	00.35		347-8						00058		
			60.45	60.75	0.30	00.30		347-16						01080		
			65.10	65.60	0.50	00.48		347-9						01311		
			67.00	67.40	0.40	00.39		347-10					0.325	12356		
			73.30	73.60	0.30	00.30		347-13						00066		
			77.15	77.95	0.80	00.79		347-14						00029		
			80.80	82.15	1.35	01.30		347-15						00093		
			201.88	202.88	1.00	00.82		347-17						00023		
			202.88	203.64	0.76	00.62		347-18			1.294			43439	1.165	
			203.64	204.64	1.00	00.82		347-19						00090		
			205.50	206.00	0.50	00.32		347-20						00285		
			221.20	222.32	1.12	00.19		347-21						00169		

PROPERTY ELK D.D.H. SND03349 PAGE 6 OF 7

AREA: _____ DIP: _____ AZIMUTH (t): _____ DEPTH: _____
 CLAIM: _____ NORTHING: _____ DATE STARTED: _____
 SECTION: _____ EASTING: _____ DATE FINISHED: _____
 CORE SIZE: _____ ELEVATION: _____ CONTRACTOR: _____
 CORE RECOVERY: _____ CORE STORED AT: _____ LOGGED BY: _____
 COMMENTS: _____

SURVEY DATA			GEOLOGY AND ASSAY RECORD													
Depth	Dip	Az (t)	From	To	Int.	T.W.	Geology	Sample No.	Rec. %	S.G.	Metallics		FA	MIBK	Ag oz/t	Ag ppm
											Au oz/t	Au oz/t	Au oz/t	Au ppb		
			272.68	276.15	3.47		K30M									
			.0	.0	0.00	00.00		349-31						00002		
			38.30	38.80	0.50	00.47		349-1						03495		
			40.00	40.30	0.30	00.30		349-2						00594		
			42.35	42.90	0.55	00.55		349-3						00116		
			43.60	43.90	0.30	00.27		349-4						00278		
			45.00	45.30	0.30	00.28		349-5						00136		
			45.50	46.00	0.50	00.49		349-6						01434		
			46.80	47.18	0.38	00.37		349-7						08109		
			47.40	47.85	0.45	00.39		349-8						01785		
			48.50	48.80	0.30	00.28		349-9						00965		
			50.00	50.30	0.30	00.28		349-12						00081		
			50.65	51.25	0.60	00.59		349-13						08644		
			59.50	60.05	0.55	00.53		349-14						04802		
			72.70	73.00	0.30	00.30		349-15						00485		
			75.65	76.00	0.35	00.35		349-16						00811		
			80.60	81.10	0.50	00.47		349-17						00448		
			88.25	88.78	0.53	00.52		349-18						01621		
			94.35	94.65	0.30	00.27		349-19						00188		
			94.65	95.01	0.36	00.35		349-20						00029		
			95.80	97.10	1.30	01.22		349-21						00048		
			98.78	99.57	0.79	00.76		349-22						00011		
			155.30	155.60	0.30	00.26		349-23						08225		
			209.10	210.60	1.50	00.75		349-24						04014		
			239.60	240.05	0.45	00.42		349-25						03091		
			242.60	243.77	1.17	00.90		349-26						00112		
			243.77	244.20	0.43	00.33		349-27					0.247			
			244.20	244.60	0.40	00.31		349-28						01844		
			244.60	246.00	1.40	01.07		349-30						00026		

PROPERTY ELK D.D.H. SND03352 PAGE 1 OF 2

AREA: WDP DIP: -90.0 AZIMUTH (t): 000.0 DEPTH: 103.94 m

CLAIM: SNML NORTHING: 3485.41 DATE STARTED: 12-Oct-1903

SECTION: 2160E EASTING: 2160.38 DATE FINISHED: 13-Oct-1903

CORE SIZE: NQ ELEVATION: 1629.28 CONTRACTOR: Leclerc Drilling Lt

CORE RECOVERY: 91.58% ROD: 23.69% CORE STORED AT: Elk Rack C Bay 27 LOGGED BY: WZ

COMMENTS: Hole was drilled to test the WD zone in the portal area. A 3cm pyritic qtz vein was intersected 5m deeper than projected.

LCTM

SURVEY DATA			GEOLOGY AND ASSAY RECORD													
Depth	Dip	Az (t)	From	To	Int.	T.W.	Geology	Sample No.	Rec. %	S.G.	Metallics			MIBK		
											Au oz/t	Au oz/t	Au oz/t	Au ppb	Ag oz/t	Ag ppm
.00	-90.0	000.0	.0	3.66	3.66		NR									
26.37	-87.0	000.0	3.66	10.33	6.67		P4GD									
75.59	-87.0	000.0	10.33	10.78	0.45		R3AP									
			10.78	11.98	1.20		R3GD									
			11.98	16.33	4.35		P1GD									
			16.33	19.28	2.95		R2GD									
			19.28	21.40	2.12		R3GD									
			21.40	23.56	2.16		R2AP									
			23.56	25.20	1.64		R3GD									
			25.20	27.05	1.85		R4GD									
			27.05	28.15	1.10		P3GD									
			28.15	30.22	2.07		R4GD									
			30.22	30.34	0.12		Y1QV									
			30.34	32.88	2.54		A4GD									
			32.88	36.37	3.49		R3GD									
			36.37	39.23	2.86		R4GD									
			39.23	45.10	5.87		AV									
			45.10	56.04	10.94		AV									
			56.04	62.50	6.46		R3GC									
			62.50	63.09	0.59		Y4GD									
			63.09	66.95	3.86		R2GC									
			66.95	72.90	5.95		R4GD									
			72.90	73.30	0.40		AV									
			73.30	76.55	3.25		R4GD									
			76.55	79.05	2.50		R3GC									
			79.05	79.50	0.45		P3GC									
			79.50	79.60	0.10		Y2QV									
			79.60	80.88	1.28		P3GC									
			80.88	88.50	7.62		R2GC									
			88.50	99.36	10.86		P2GC									
			99.36	103.94	4.58		P1GC									

PROPERTY ELK D.D.H. SND03354 PAGE 1 OF 4
 AREA: WD DIP: -73.0 AZIMUTH (t): 000.0 DEPTH: 305.41 m
 CLAIM: SNML NORTHING: 3398.01 DATE STARTED: 14-Oct-2003
 SECTION: 2370E EASTING: 2373.69 DATE FINISHED: 18-Oct-2003
 CORE SIZE: NQ ELEVATION: 1643.20 CONTRACTOR: Leclerc Drilling Lt
 CORE RECOVERY: 95.77% RQD: 56.28% CORE STORED AT: Elk Rack C Bay 27 LOGGED BY: WZ
 COMMENTS: Hole was drilled to test the WD zone at depth. A 2cm pyritic qtz vein was intersected at the projected location. A 35cm pyritic quartz vein with visible gold was intersected 90m deeper.
 LCTM

SURVEY DATA			GEOLOGY AND ASSAY RECORD													
Depth	Dip	Az (t)	From	To	Int.	T.W.	Geology	Sample No.	Rec. %	S.G.	Au oz/t	Au oz/t	PA	MIBK	Ag oz/t	Ag ppm
.00	-73.0	000.0	.0	6.10	6.10		NR									
41.61	-73.7	000.0	6.10	14.55	8.45		P3AD									
106.07	-74.0	000.0	14.55	26.82	12.27		K3QM									
156.36	-73.0	000.0	26.82	32.25	5.43		K4QM									
197.51	-73.6	000.0	32.25	32.52	0.27		K3AP									
234.09	-74.0	000.0	32.52	34.68	2.16		K4QM									
279.81	-73.6	000.0	34.68	47.65	12.97		K3QM									
			47.65	50.60	2.95		K4QM									
			50.60	68.73	18.13		P2QM									
			68.73	70.88	2.15		K2QM									
			70.88	72.46	1.58		P3AD									
			72.46	73.86	1.40		K3QM									
			73.86	76.78	2.92		P2QM									
			76.78	83.30	6.52		K2QM									
			83.30	87.90	4.60		K1GD									
			87.90	93.15	5.25		P1GD									
			93.15	93.70	0.55		K3AP									
			93.70	104.50	10.80		P1GD									
			104.50	109.36	4.86		GD									
			109.36	112.70	3.34		P1GD									
			112.70	123.45	10.75		GD									
			123.45	133.03	9.58		P1GD									
			133.03	143.70	10.67		GD									
			143.70	146.26	2.56		P1GD									
			146.26	161.52	15.26		GD									
			161.52	162.80	1.28		K1GD									
			162.80	163.85	1.05		GD									
			163.85	164.60	0.75		K1GD									
			164.60	185.65	21.05		GD									
			185.65	186.38	0.73		K1GD									
			186.38	190.47	4.09		GD									

PROPERTY ELK D.D.H. SND03354 PAGE 3 OF 4

AREA: _____ DIP: _____ AZIMUTH (t): _____ DEPTH: _____
 CLAIM: _____ NORTHING: _____ DATE STARTED: _____
 SECTION: _____ EASTING: _____ DATE FINISHED: _____
 CORE SIZE: _____ ELEVATION: _____ CONTRACTOR: _____
 CORE RECOVERY: _____ CORE STORED AT: _____ LOGGED BY: _____
 COMMENTS: _____

SURVEY DATA			GEOLOGY AND ASSAY RECORD														
Depth	Dip	Az (t)	From	To	Int.	T.W.	Geology	Sample No.	Rec. %	S.G.	metallics		FA	MIBK	Ag oz/t	Ag ppm	
											Au oz/t	Au oz/t	Au oz/t	Au ppb			
			285.60	286.12	0.52		P2AV										
			286.12	288.03	1.91		GD										
			288.03	291.00	2.97		P3GC										
			291.00	291.33	0.33		K3GC										
			291.33	295.30	3.97		P3AV										
			295.30	296.69	1.39		AV										
			296.69	298.50	1.81		P2AV										
			298.50	303.96	5.46		P1AV										
			303.96	304.39	0.43		GD										
			304.39	304.80	0.41		P1AV										
			304.80	305.41	0.61		P3GC										
			.0	.0	0.00	00.00		354-35						00003			
			48.40	48.70	0.30	00.28		354-1						00114			
			50.40	50.70	0.30	00.28		354-2						00056			
			52.05	52.40	0.35	00.33		354-3						00009			
			53.35	53.85	0.50	00.47		354-4						00022			
			56.55	57.55	1.00	00.94		354-5						00138			
			57.55	58.55	1.00	00.94		354-6						00025			
			58.55	59.30	0.75	00.71		354-7						00185			
			60.05	60.65	0.60	00.57		354-8						00029			
			61.70	62.50	0.80	00.76		354-9						00066			
			66.30	66.60	0.30	00.27		354-10						00074			
			73.45	73.75	0.30	00.25		354-11						00019			
			82.80	84.10	1.30	01.21		354-12						00060			
			92.10	92.60	0.50	00.47		354-14						00019			
			128.60	129.10	0.50	00.48		354-16						05782			
			222.30	222.60	0.30	00.26		354-17						00014			
			226.05	226.35	0.30	00.21		354-18						00994			
			227.00	227.30	0.30	00.27		354-19					0.008				

CONTD

PROPERTY ELK D.D.H. SND03355 PAGE 1 OF 7
 AREA: WD DIP: -75.0 AZIMUTH (t): 353.0 DEPTH: 375.21 m
 CLAIM: SNML NORTHING: 3364.9 DATE STARTED: 16-Oct-2003
 SECTION: 2670E EASTING: 2670.03 DATE FINISHED: 20-Oct-2003
 CORE SIZE: NQ ELEVATION: 1648.42 CONTRACTOR: Leclerc Drilling Lt
 CORE RECOVERY: 97.72% RQD: 66.25% CORE STORED AT: Elk Rack C Bay 27 LOGGED BY: WJ RH
 COMMENTS: Hole was drilled to test the WD zone at depth. A 35cm pyritic qtz vein with visible gold was intersected 15m deeper than projected.
 TCTM

SURVEY DATA			GEOLOGY AND ASSAY RECORD										FA	MIBK		
Depth	Dip	Az (t)	From	To	Int.	T.W.	Geology	Sample No.	Rec. %	S.G.	Au oz/t	Au oz/t	Au oz/t	Au ppb	Ag oz/t	Ag ppm
.00	-75.0	353.0	.0	3.35	3.35		CS									
30.18	-76.0	353.0	3.35	6.50	3.15		QM									
78.64	-75.5	353.0	6.50	16.16	9.66		P1QM									
119.49	-75.5	353.0	16.16	25.05	8.89		QM									
164.44	-75.5	353.0	25.05	26.67	1.62		P1QM									
209.40	-75.7	353.0	26.67	32.25	5.58		QM									
255.58	-76.0	353.0	32.25	33.35	1.10		O1QM									
303.13	-76.2	353.0	33.35	34.33	0.98		QM									
375.0	353.0	.0	34.33	35.02	0.69		P1QM									
			35.02	37.85	2.83		P2QM									
			37.85	38.84	0.99		K1QM									
			38.84	47.35	8.51		P3QM									
			47.35	48.75	1.40		P2QM									
			48.75	53.45	4.70		P4QM									
			53.45	54.16	0.71		P2QM									
			54.16	60.71	6.55		P1QM									
			60.71	66.19	5.48		QM									
			66.19	67.35	1.16		P1QM									
			67.35	68.25	0.90		K2QM									
			68.25	71.95	3.70		P2QM									
			71.95	77.55	5.60		A4QM									
			72.55	73.10	0.55		K4QM									
			73.10	73.70	0.60		K2QM									
			73.70	74.55	0.85		P5QM									
			74.55	75.32	0.77		P4QM									
			75.32	76.20	0.88		P2QM									
			76.20	77.05	0.85		P3QM									
			77.05	77.60	0.55		P4QM									
			77.60	78.20	0.60		P3QM									
			78.20	78.65	0.45		K4QM									
			78.65	84.58	5.93		P2QM									

PROPERTY ELK D.D.H. SND03355 PAGE 2 OF 7

AREA: _____ DIP: _____ AZIMUTH (t): _____ DEPTH: _____
 CLAIM: _____ NORTHING: _____ DATE STARTED: _____
 SECTION: _____ EASTING: _____ DATE FINISHED: _____
 CORE SIZE: _____ ELEVATION: _____ CONTRACTOR: _____
 CORE RECOVERY: _____ CORE STORED AT: _____ LOGGED BY: _____
 COMMENTS: _____

SURVEY DATA			GEOLOGY AND ASSAY RECORD													
Depth	Dip	Az (t)	From	To	Int.	T.W.	Geology	Sample No.	Rec. %	S.G.	Metallics		FA	MIBK	Ag oz/t	Ag ppm
											Au oz/t	Au oz/t	Au oz/t	Au ppb		
			84.58	85.35	0.77		P1QM									
			85.35	86.60	1.25		QM									
			86.60	87.60	1.00		P3QM									
			87.60	92.70	5.10		P1QM									
			92.70	93.70	1.00		K3QM									
			93.70	95.28	1.58		P3QM									
			95.28	96.00	0.72		P1QM									
			96.00	97.28	1.28		QM									
			97.28	98.13	0.85		P2QM									
			98.13	101.00	2.87		P1QM									
			101.00	102.40	1.40		P2QM									
			102.40	104.10	1.70		P3QM									
			104.10	104.78	0.68		K2QM									
			104.78	106.64	1.86		P3QM									
			106.64	107.10	0.46		K3QM									
			107.10	107.40	0.30		F4QM									
			107.40	108.10	0.70		P4QM									
			108.10	109.30	1.20		K3QM									
			109.30	110.24	0.94		K3QM									
			110.24	111.42	1.18		P4QM									
			111.42	111.85	0.43		FKQM									
			111.85	115.44	3.59		P4QM									
			115.44	117.30	1.86		P3QM									
			117.30	118.14	0.84		K3QM									
			118.14	129.45	11.31		P3QM									
			129.45	129.86	0.41		K2QM									
			129.86	130.99	1.13		P3QM									
			130.99	133.66	2.67		P2QM									
			133.66	134.00	0.34		K2QM									
			134.00	134.82	0.82		P2QM									
			134.82	144.95	10.63		K1QM									

ELK

SND03355

7

7

PROPERTY _____ D.D.H. _____ PAGE _____ OF _____

AREA: _____ DIP: _____ AZIMUTH (t): _____ DEPTH: _____
 CLAIM: _____ NORTHING: _____ DATE STARTED: _____
 SECTION: _____ EASTING: _____ DATE FINISHED: _____
 CORE SIZE: _____ ELEVATION: _____ CONTRACTOR: _____
 CORE RECOVERY: _____ CORE STORED AT: _____ LOGGED BY: _____
 COMMENTS: _____

SURVEY DATA			GEOLOGY AND ASSAY RECORD														
Depth	Dip	Az (t)	From	To	Int.	T.W.	Geology	Sample No.	Rec. %	S.G.	Au oz/t			MIBK		Ag	
											0.500	0.500	0.500	Au ppb	Ag oz/t	Ag ppm	
			254.60	254.90	0.30	00.20		355-28							00285		
			255.60	255.90	0.30	00.25		355-29							00044		
			273.20	273.60	0.40	00.35		355-30							00242		
			321.40	321.70	0.30	00.23		355-32							00051		
			335.85	336.10	0.25	00.22		355-34							00061		
			337.80	338.10	0.30	00.23		355-35							03373		
			340.50	341.00	0.50	00.10		355-36							00139		
			344.20	345.20	1.00	00.84		355-37							00008		
			345.20	345.63	0.43	00.36		355-38			0.094					0.369	
			345.63	346.63	1.00	00.84		355-39							00127		
			350.30	350.60	0.30	00.21		355-40					0.100				
			351.90	352.20	0.30	00.30		355-41							00081		
			354.03	354.60	0.57	00.54		355-42							00468		

CORDILLERAN ENGINEERING

DIAMOND DRILL RECORD

PROPERTY <u>ELK</u>	D.D.H. <u>SND03357</u>	PAGE <u>1</u>	OF <u>1</u>
AREA: <u>WD</u>	DIP: <u>-75.0</u>	AZIMUTH (t): <u>000.0</u>	DEPTH: <u>75.29</u> m
CLAIM: <u>SNML</u>	NORTHING: <u>3358.47</u>		DATE STARTED: <u>21-Oct-2003</u>
SECTION: <u>2420E</u>	EASTING: <u>2416.78</u>		DATE FINISHED: <u>22-Oct-2003</u>
CORE SIZE: <u>NQ</u>	ELEVATION: <u>1630.28</u>		CONTRACTOR: <u>Leclerc Drilling Lt</u>
CORE RECOVERY: <u>89.27%</u>	ROD: <u>50.90%</u>	CORE STORED AT: <u>Elk Rack C Bay 26</u>	LOGGED BY: <u>WZ</u>
COMMENTS: <u>Hole was drilled to test the WD zone at depth. The drill was unable to reach the targetted depth due to clay gouge in the an</u> <u>desite dyke at the RB fault.</u>			
LCTM			

SURVEY DATA			GEOLOGY AND ASSAY RECORD													
Depth	Dip	Az (t)	From	To	Int.	T.W.	Geology	Sample No.	Rec. %	S.G.	Au oz/t	Au oz/t	FA	MIBK	Aq oz/t	Ag ppm
.00	-75.0	000.0	.0	6.10	6.10		NR									
33.99	-76.0	000.0	6.10	22.08	15.98		P3QM									
			22.08	33.56	11.48		P4QM									
			33.56	35.55	1.99		X3QM									
			35.55	44.35	8.80		X4QM									
			44.35	46.15	1.80		P4QM									
			46.15	47.45	1.30		X3QM									
			47.45	48.00	0.55		X4QM									
			48.00	52.60	4.60		P4QM									
			52.60	71.00	18.40		X3QM									
			71.00	75.29	4.29		P3AD									
			22.95	23.35	0.40	00.40		357-1						00640		
			27.50	27.90	0.40	00.40		357-2						00031		
			28.40	28.80	0.40	00.40		357-3						00175		
			35.55	36.80	1.25	01.22		357-4						02425		
			38.45	39.35	0.90	00.89		357-5						00160		
			40.20	40.90	0.70	00.69		357-6						00043		
			43.50	43.80	0.30	00.30		357-7			1.467			40096	0.280	
			47.45	48.00	0.55	00.49		357-8						00122		
			54.50	54.80	0.30	00.19		357-9						00470		

PROPERTY ELK D.D.H. SND03358 PAGE 3 OF 7

AREA: _____ DIP: _____ AZIMUTH (t): _____ DEPTH: _____
 CLAIM: _____ NORTHING: _____ DATE STARTED: _____
 SECTION: _____ EASTING: _____ DATE FINISHED: _____
 CORE SIZE: _____ ELEVATION: _____ CONTRACTOR: _____
 CORE RECOVERY: _____ CORE STORED AT: _____ LOGGED BY: _____
 COMMENTS: _____

SURVEY DATA			GEOLOGY AND ASSAY RECORD													
Depth	Dip	Az (t)	From	To	Int.	T.W.	Geology	Sample No.	Rec. %	S.G.	metallics		FA	MTBK	Ag oz/t	Ag ppm
											Au oz/t	Au oz/t	Au oz/t	Au ppb		
			130.27	132.10	1.83		P3QM									
			132.10	140.23	8.13		P1QM									
			140.23	143.32	3.09		P1QM									
			143.32	143.60	0.28		AP									
			143.60	150.94	7.34		P2QM									
			150.94	151.24	0.30		K3QM									
			151.24	160.42	9.18		P2QM									
			160.42	164.37	3.95		P1QM									
			164.37	166.57	2.20		K2QM									
			166.57	170.00	3.43		P1QM									
			170.00	170.52	0.52		K2QM									
			170.52	170.97	0.45		K2AP									
			170.97	171.25	0.28		P1QM									
			171.25	171.47	0.22		AP									
			171.47	171.84	0.37		K1QM									
			171.84	174.80	2.96		QM									
			174.80	175.05	0.25		K2QM									
			175.05	177.10	2.05		P1QM									
			177.10	177.48	0.38		AP									
			177.48	177.90	0.42		QM									
			177.90	178.56	0.66		K1QM									
			178.56	186.52	7.96		P1QM									
			186.52	186.89	0.37		K3QM									
			186.89	189.80	2.91		P1QM									
			189.80	190.29	0.49		K1QM									
			190.29	191.90	1.61		P2QM									
			191.90	194.15	2.25		K3QM									
			194.15	195.87	1.72		P2QM									
			195.87	198.90	3.03		P4QM									
			198.90	202.30	3.40		K3QM									
			202.30	203.25	0.95		K2QM									

PROPERTY ELK D.D.H. SND03358 PAGE 4 OF 7

AREA: _____ DIP: _____ AZIMUTH (t): _____ DEPTH: _____
 CLAIM: _____ NORTHING: _____ DATE STARTED: _____
 SECTION: _____ EASTING: _____ DATE FINISHED: _____
 CORE SIZE: _____ ELEVATION: _____ CONTRACTOR: _____
 CORE RECOVERY: _____ CORE STORED AT: _____ LOGGED BY: _____
 COMMENTS: _____

SURVEY DATA			GEOLOGY AND ASSAY RECORD														
Depth	Dip	Az (t)	From	To	Int.	T.W.	Geology	Sample No.	Rec. %	S.G.	metallics		FA	MIBK	Ag oz/t	Ag ppm	
											Au oz/t	Au oz/t	Au oz/t	Au ppb			
			203.25	205.12	1.87		P3QM										
			205.12	205.90	0.78		K2QM										
			205.90	206.10	0.20		P3QM										
			206.10	206.40	0.30		K2QM										
			206.40	208.42	2.02		P3QM										
			208.42	209.17	0.75		K3QM										
			209.17	211.60	2.43		P3QM										
			211.60	212.60	1.00		AP										
			212.60	214.00	1.40		P4QM										
			214.00	214.16	0.16		K3AP										
			214.16	217.20	3.04		K2QM										
			217.20	218.80	1.60		P4QM										
			218.80	219.35	0.55		K2QM										
			219.35	220.07	0.72		K4QM										
			220.07	221.00	0.93		K2QM										
			221.00	228.40	7.40		P4QM										
			228.40	232.55	4.15		K2QM										
			232.55	232.80	0.25		P3AD										
			232.80	233.70	0.90		K4QM										
			233.70	234.80	1.10		P3QM										
			234.80	235.65	0.85		K2QM										
			235.65	238.63	2.98		P3QM										
			238.63	239.11	0.48		K1QM										
			239.11	246.30	7.19		P3QM										
			246.30	250.00	3.70		P1QM										
			250.00	250.38	0.38		K3QM										
			250.38	265.40	15.02		P1QM										
			265.40	267.30	1.90		P3QM										
			267.30	269.35	2.05		P1QM										
			269.35	270.28	0.93		K1QM										
			270.28	271.49	1.21		K4QM										

PROPERTY ELK D.D.H. SND03359 PAGE 1 OF 2

AREA: WD DIP: -75.0 AZIMUTH (t): 000.0 DEPTH: 72.54 m

CLAIM: SNML NORTHING: 3358.52 DATE STARTED: 22-Oct-2003

SECTION: 2420E EASTING: 2416.21 DATE FINISHED: 22-Oct-2003

CORE SIZE: NQ ELEVATION: 1630.28 CONTRACTOR: Teclerc Drilling Lt

CORE RECOVERY: 88.24% RQD: 41.78% CORE STORED AT: Elk Rack C Bay 26 LOGGED BY: WZ

COMMENTS: Hole was drilled to test the WD zone at depth. The drill was unable to reach the targeted depth due to clay gouge in the an desite dyke at the RB fault.

LCTM

SURVEY DATA			GEOLOGY AND ASSAY RECORD													
Depth	Dip	Az (t)	From	To	Int.	T.W.	Geology	Sample No.	Rec. %	S.G.	metallics		FA	MBK	Ag oz/t	Ag ppm
											Au oz/t	Au oz/t	Au oz/t	Au ppb		
.00	-75.0	000.0	.0	6.10	6.10		NR									
27.89	-76.0	000.0	6.10	22.00	15.90		P30M									
			22.00	24.15	2.15		K30M									
			24.15	25.15	1.00		P30M									
			25.15	39.00	13.85		K40M									
			39.00	39.25	0.25		P30M									
			39.25	40.38	1.13		X30M									
			40.38	40.85	0.47		P40M									
			40.85	47.18	6.33		K30M									
			47.18	47.52	0.34		X30M									
			47.52	47.80	0.28		P40M									
			47.80	49.76	1.96		K30M									
			49.76	51.90	2.14		P30M									
			51.90	62.80	10.90		K30M									
			62.80	64.43	1.63		P40M									
			64.43	70.90	6.47		K30M									
			70.90	72.54	1.64		P3AD									
			.0	.0	0.00	00.00		359-8						00002		
			22.20	23.00	0.80	00.80		359-1						00111		
			23.00	24.00	1.00	01.00		359-2						00015		
			35.00	35.60	0.60	00.60		359-3						00135		
			35.60	36.40	0.80	00.80		359-4						01926		
			36.40	37.19	0.79	00.79		359-5						00554		
			37.19	38.05	0.86	00.86		359-7						00005		
			38.05	38.95	0.90	00.87		359-9						00063		
			38.95	39.90	0.95	00.95		359-10						00064		
			39.90	40.90	1.00	01.00		359-11						00089		
			41.85	42.20	0.35	00.35		359-12						00029		
			43.40	43.90	0.50	00.50		359-13			0.678			57358	0.145	

CONTD

PROPERTY ELK D.D.H. SND03363 PAGE 1 OF 2
 AREA: WD DIP: -75.0 AZIMUTH (t): 000.5 DEPTH: 142.34 m
 CLAIM: SNML NORTHING: 3539.53 DATE STARTED: 26-Oct-2003
 SECTION: 2545E EASTING: 2544.81 DATE FINISHED: 29-Oct-2003
 CORE SIZE: NQ ELEVATION: 1643.50 CONTRACTOR: Leclerc Drilling Lt
 CORE RECOVERY: 96.62% ROD: 54.18% CORE STORED AT: Elk Rack C Bay 26 LOGGED BY: WJ RH
 COMMENTS: Hole was drilled to test the WD zone continuity in the area of the resource block. A 2cm pyritic qtz vein was intersected at the projected location.
 LCTM

SURVEY DATA			GEOLOGY AND ASSAY RECORD													
Depth	Dip	Az (t)	From	To	Int.	T.W.	Geology	Sample No.	Rec. %	S.G.	Metallics		FA	MIBK	Ag oz/t	Ag ppm
											Au oz/t	Au oz/t	Au oz/t	Au ppb		
.00	-75.0	000.5	.0	3.05	3.05		NR									
27.89	-73.5	000.5	3.05	8.50	5.45		P30M									
76.81	-75.5	000.5	8.50	9.74	1.24		P40M									
122.53	-72.0	000.5	9.74	13.13	3.39		P30M									
			13.13	13.85	0.72		P50M									
			13.85	18.80	4.95		P40M									
			18.80	19.64	0.84		P50M									
			19.64	20.45	0.81		K40M									
			20.45	22.46	2.01		P50M									
			22.40	23.92	1.52		P40M									
			23.92	24.09	0.17		P50M									
			24.09	25.05	0.96		P50M									
			25.05	26.20	1.15		P40M									
			26.20	38.62	12.42		P50M									
			38.62	39.00	0.38		K30M									
			39.00	39.35	0.35		P50M									
			39.35	40.55	1.20		K40M									
			40.55	44.80	4.25		P50M									
			44.80	72.55	27.75		P40M									
			72.55	75.71	3.16		P30M									
			75.71	77.85	2.14		P40M									
			77.85	78.72	0.87		P20M									
			78.72	82.60	3.88		P30M									
			82.60	84.32	1.72		P10M									
			84.32	92.97	8.65		P30M									
			92.97	93.62	0.65		K20M									
			93.62	97.30	3.68		P30M									
			97.30	115.40	18.10		P20M									
			115.40	117.90	2.50		P40M									
			117.90	118.40	0.50		K30M									
			118.40	120.68	2.28		P40M									

CONTD

PROPERTY ELK D.D.H. SND03364 PAGE 2 OF 2

AREA: _____ DIP: _____ AZIMUTH (t): _____ DEPTH: _____
 CLAIM: _____ NORTHING: _____ DATE STARTED: _____
 SECTION: _____ EASTING: _____ DATE FINISHED: _____
 CORE SIZE: _____ ELEVATION: _____ CONTRACTOR: _____
 CORE RECOVERY: _____ CORE STORED AT: _____ LOGGED BY: _____
 COMMENTS: _____

SURVEY DATA			GEOLOGY AND ASSAY RECORD													
Depth	Dip	Az (t)	From	To	Int.	T.W.	Geology	Sample No.	Rec. %	S.G.	metallies		FA	MIBX	Ag oz/t	Ag ppm
											Au oz/t	Au oz/t	Au oz/t	Au ppb		
			196.40	196.68	0.28		K3GD									
			196.68	196.80	0.12		P4GD									
			196.80	197.50	0.70		Y2QV									
			197.50	197.79	0.29		F4GD									
			197.79	197.89	0.10		K3GD									
			197.89	200.09	2.20		K2AP									
			200.09	202.32	2.23		P3GD									
			202.32	203.70	1.38		P1GD									
			203.70	210.42	6.72		P2GD									
			210.42	212.12	1.70		P1GD									
			212.12	214.76	2.64		GD									
			214.76	217.88	3.12		P1GD									
			217.88	221.59	3.71		GD									
			.0	.0	0.00	00.00		364-9						00006		
			8.90	9.30	0.40	00.33		364-1						00153		
			25.40	25.75	0.35	00.35		364-2						03318		
			78.80	79.35	0.55	00.54		364-3						00180		
			79.80	80.20	0.40	00.40		364-4						00051		
			195.70	196.70	1.00	00.71		364-5						00016		
			196.70	197.70	1.00	00.71		364-6			0.531				0.731	
			197.70	198.70	1.00	00.71		364-8						00016		
			200.20	200.50	0.30	00.24		364-10						00394		

PROPERTY ELK D.D.H. SND03365 PAGE 1 OF 4
 AREA: WD DIP: -75.0 AZIMUTH (t): 358.0 DEPTH: 203.91 m
 CLAIM: SNML NORTHING: 3502.65 DATE STARTED: 28-Oct-2003
 SECTION: 2495E EASTING: 2545.06 DATE FINISHED: 1-Nov-2003
 CORE SIZE: NQ ELEVATION: 1646.28 CONTRACTOR: Teclerc Drilling Lt
 CORE RECOVERY: 96.19% RQD: 63.95% CORE STORED AT: Elk Rack C Bay 26 LOGGED BY: WJ RH
 COMMENTS: Hole was drilled to test the WD zone continuity in the area of the resource block. A 65cm pyritic qtz vein was intersected at the projected location.
 LCTM

SURVEY DATA			GEOLOGY AND ASSAY RECORD													
Depth	Dip	Az (t)	From	To	Int.	T.W.	Geology	Sample No.	Rec. %	S.G.	Au oz/t	Au oz/t	Au oz/t	Au ppb	Ag oz/t	Ag ppm
.00	-75.0	358.0	.0	3.66	3.66		CS									
26.37	-74.5	358.0	3.66	8.84	5.18		OB									
75.59	-74.0	358.0	8.84	12.60	3.76		P3QM									
122.84	-74.5	358.0	12.60	14.02	1.42		P3AD									
173.13	-74.4	358.0	14.02	15.90	1.88		P3QM									
			15.90	22.05	6.15		P4QM									
			22.05	22.25	0.20		P3QM									
			22.25	31.45	9.20		P4QM									
			31.45	33.30	1.85		P3QM									
			33.30	40.73	7.43		QM									
			40.73	41.60	0.87		P2QM									
			41.60	43.25	1.65		P5QM									
			43.25	43.36	0.11		K3QM									
			43.36	43.58	0.22		P4QM									
			43.58	43.71	0.13		K2QM									
			43.71	44.30	0.59		P4QM									
			44.30	44.40	0.10		GG									
			44.40	44.68	0.28		K2QM									
			44.68	45.30	0.62		P2QM									
			45.30	49.70	4.40		QM									
			49.70	61.80	12.10		P2QM									
			61.80	76.10	14.30		QM									
			65.23	65.25	0.02		QM									
			76.10	77.20	1.10		P3QM									
			77.20	78.80	1.60		P1QM									
			78.80	79.35	0.55		P4QM									
			79.35	85.20	5.85		P2QM									
			85.20	85.65	0.45		K2QM									
			85.65	90.15	4.50		P2QM									
			90.15	94.80	4.65		QM									
			94.80	95.80	1.00		P3QM									

CONTD

