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Assessment Report
2002 Diamond Drilling Program
Mack Property

Skeena Mining Division
British Columbia
NTS 104B 068,069, 078, 079
Latitude: 56° 37'
Longitude: 130° 30'

Owned by:

HOMESTAKE CANADA INC.
(a wholly owned subsidiary of Barrick Gold Corporation)

Work Performed By:

BARRICK GOLD CORPORATION
P.O. Box 164
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Vancouver, B.C.
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Submitted By:
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February 19, 2003

Abstract

The 2002 drilling program on the Mack property operated from August 20 to September 11, 2002. One hole was drilled to test a magnetic anomaly within the Bowser Lake Group sedimentary rocks east of Tom MacKay Lake on the Mack 20 claim. The hole cored 50m of conglomerate before passing into laminated mudstone. Andesite dykes and sills intruded the lower 150m of mudstone and comprised up to 30% of the rock. The andesite was magnetic and is considered to be the source of the magnetic anomaly. The hole was terminated at 992.12m. There were no significant results and no further work is recommended.

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Introduction

This report is a summary of the drill hole MP02-11 that was completed on the Mack Property during the summer of 2002 by Barrick Gold Corporation.

Location and Access

The claims that comprise the Mack property lie approximately 83 km northwest of Stewart, British Columbia. The property is accessible by the paved Stewart-Cassiar Highway (37) which heads north from Meziadin Junction. The Eskay Creek mine road joins Highway 37 a few kilometers south of Bob Quinn. The Mack claims can be accessed by driving the 58.5 km gravel mine road constructed along the eastern flank of the Iskut River and utilizing a helicopter from there. The property is approximately 4.5 km southwest of the Eskay Creek minesite (Figure 1).

Property Tenure

The Mack property, consisting of 24 mineral claims, totaling 43 units was grouped with other adjacent Eskay Creek claims and mining leases in the Skeena and Liard Mining Divisions. All of the grouped claims are held wholly or partially by Homestake Canada Inc., a wholly owned subsidiary of Barrick Gold Corporation. The location and configuration of the claims are shown in Figures 1 and 2. Current claim status and expiry dates are outlined in Table 1.

Physiography, Vegetation and Climate

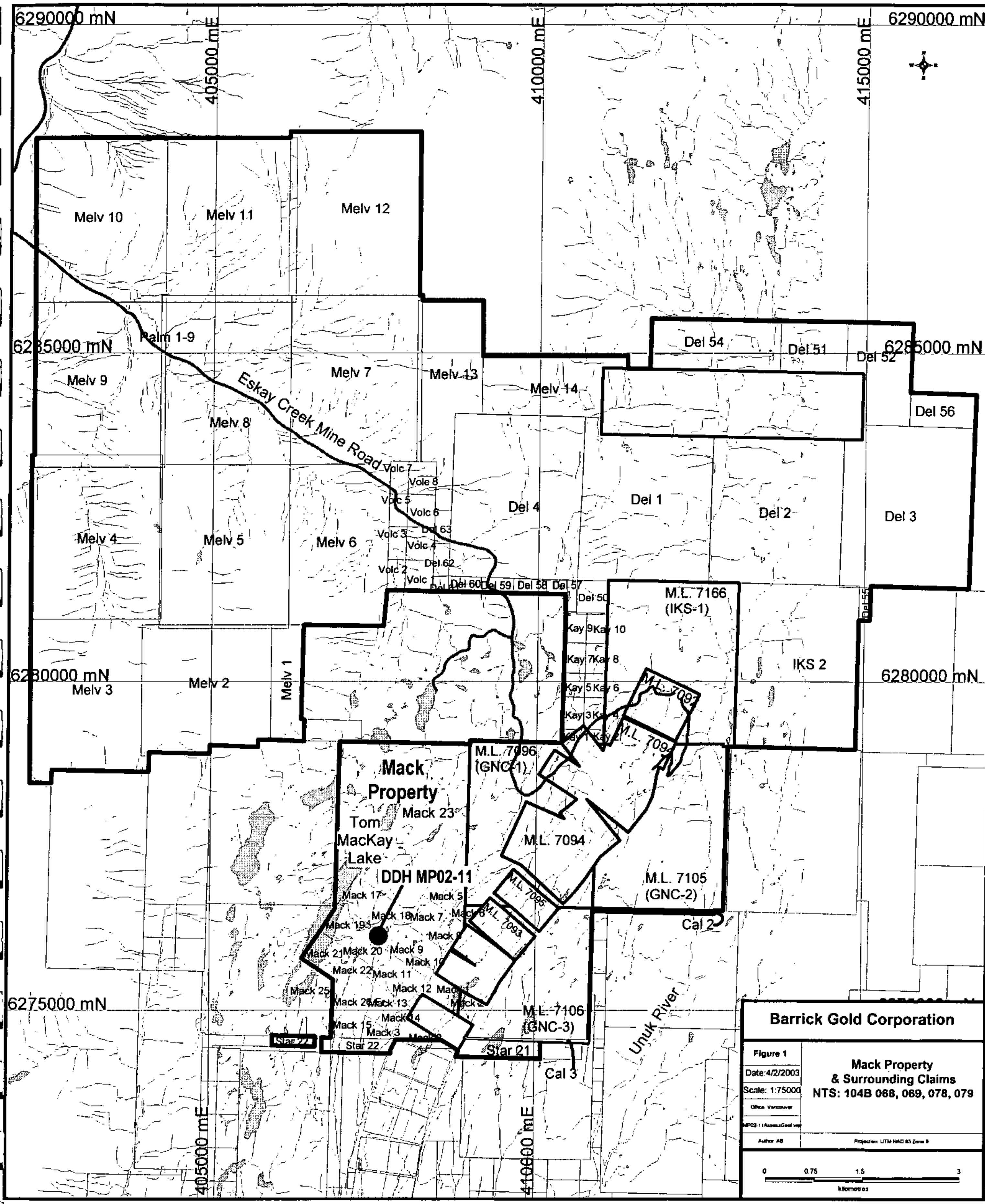
The area west and north of the Argillite Creek is characterized by the rolling NNE trending ridges and gullies of the Prout Plateau. Elevations range from 1300m to 960m.

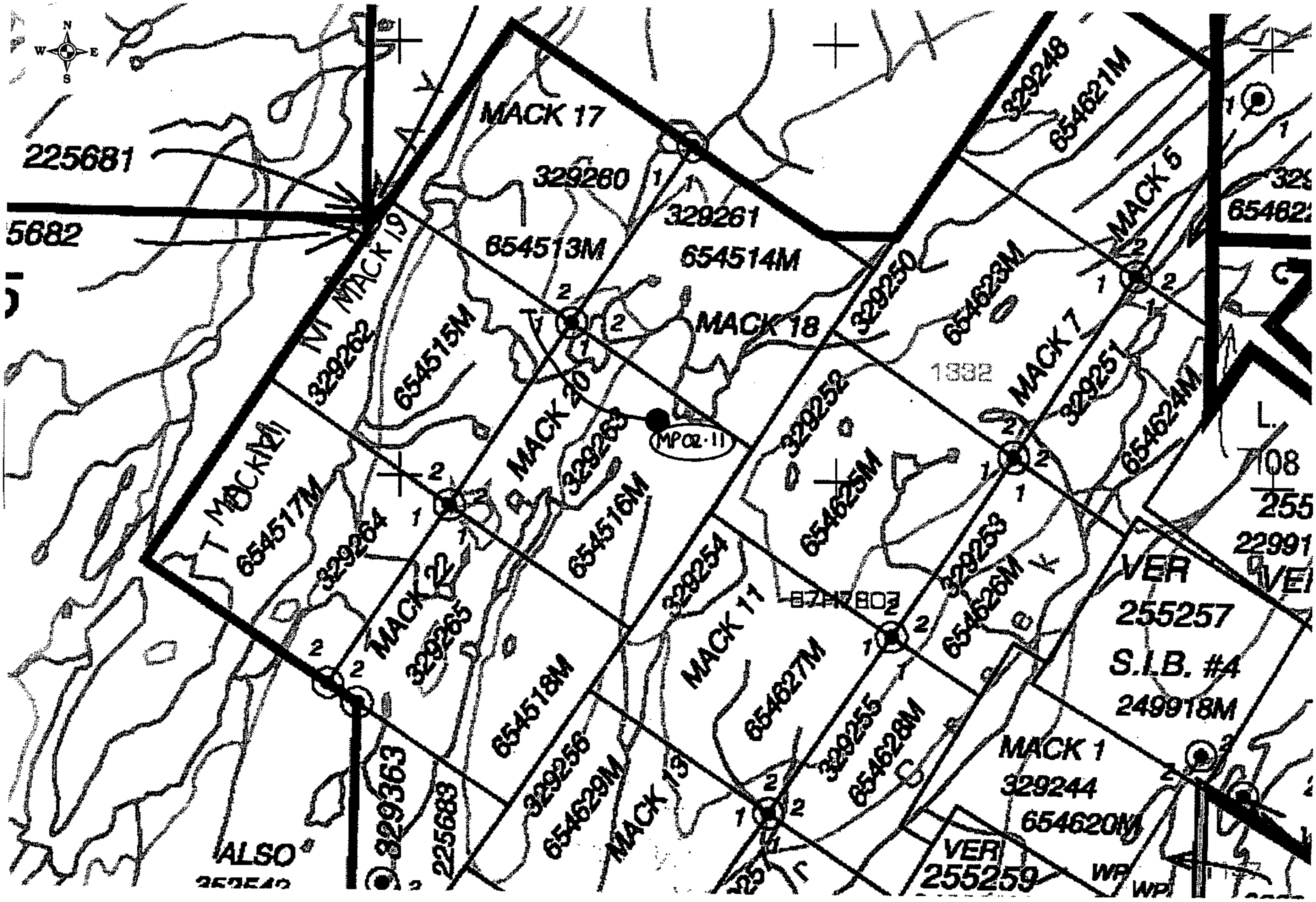
Vegetation varies due to elevation, water supply and slope. At higher elevation, the vegetation consists of stunted balsam, heather and grasses. Steep areas are covered by slide alder, devil's club and skunk cabbage. At lower elevation, spruce, fir and hemlock prevail.

Annual precipitation at Eskay is heavy and ranges from 2-3.5 meters. Most of the precipitation falls as snow between the months of November and April. The accumulated snow pack does not fully disappear until early August.

History and Previous Work

The Eskay Creek property and surrounding area has been the focus of many exploration programs which date back to 1932. Recent geological mapping has been done on selected areas of the Mack property by Barrick personnel. Other work includes geological mapping on the Mack property and Prout Plateau has been completed by Peter Lewis in 1995, a Master's thesis on the regional geology and facies interpretation by Roland Bartsch in 1993 and a Bachelor's thesis on the geology and structural complications of the Prout Plateau area by Matt Phillips in 1996.


Barrick Gold Corporation
Figure 1
Date: 4/2/2003
Scale: 1:75000
Mack Property
& Surrounding Claims
NTS: 104B 068, 069, 078, 079
Mack Property
Tom MacKay Lake
DDH MP02-11
Eskay Creek Mine Road
Unuk River
6290000 mN
6285000 mN
6280000 mN
6275000 mN
405000 mE
410000 mE
415000 mE
M.L. 7166 (IKS-1)
IKS 2
M.L. 7096 (GNC-1)
M.L. 7094
M.L. 7105 (GNC-2)
M.L. 7106 (GNC-3)
Star 21
Star 22
Cal 2
Cal 3



0 250 500m

Claim Map
Skeena Mining Division
NTS 104B/9W-10E
Figure 2

Table 1. Summary of Claim Data

Claim Name	Record #	Units	Area (ha)	Record Date	Expiry Date*
Mack 23	329241	20	500	1994.07.21	2012.07.21
Mack 1	329244	1	25	1994.07.21	2012.07.21
Mack 2	329245	1	25	1994.07.21	2012.07.21
Mack 3	329246	1	25	1994.07.21	2012.07.21
Mack 4	329247	1	25	1994.07.21	2012.07.21
Mack 5	329248	1	25	1994.07.21	2012.07.21
Mack 6	329249	1	25	1994.07.21	2012.07.21
Mack 7	329250	1	25	1994.07.21	2012.07.21
Mack 8	329251	1	25	1994.07.21	2012.07.21
Mack 9	329252	1	25	1994.07.21	2012.07.21
Mack 10	329253	1	25	1994.07.21	2012.07.21
Mack 11	329254	1	25	1994.07.21	2012.07.21
Mack 12	329255	1	25	1994.07.21	2012.07.21
Mack 13	329256	1	25	1994.07.21	2012.07.21
Mack 14	329257	1	25	1994.07.21	2012.07.21
Mack 15	329258	1	25	1994.07.21	2012.07.21
Mack 16	329259	1	25	1994.07.21	2012.07.21
Mack 17	329260	1	25	1994.07.21	2012.07.21
Mack 18	329261	1	25	1994.07.21	2012.07.21
Mack 19	329262	1	25	1994.07.21	2012.07.21
Mack 20	329263	1	25	1994.07.21	2012.07.21
Mack 21	329264	1	25	1994.07.21	2012.07.21
Mack 22	329265	1	25	1994.07.21	2012.07.21
Mack 26 FR	329363	1	25	1994.08.03	2012.08.03
Del 51	378529	16	75	2000.07.02	2008.07.02
Del 52	378530	16	75	2000.07.02	2008.07.02
Del 54	378532	20	125	2000.07.02	2008.07.02
Del 56	379748	12	300	2000.08.11	2008.08.11
Del 63	379755	1	250	2000.08.12	2010.08.12
Melv 1	392013	4	100	2002.02.22	2006.02.22
Melv 2	392014	16	400	2002.02.22	2006.02.22
Melv 3	392015	20	500	2002.02.22	2006.02.22
Melv 4	392016	20	500	2002.02.22	2006.02.22
Melv 5	392017	20	500	2002.02.23	2006.02.23
Melv 6	392018	20	500	2002.02.22	2006.02.23
Melv 7	392019	20	500	2002.02.22	2006.02.23
Melv 8	392020	20	500	2002.02.22	2006.02.23
Melv 9	392021	20	500	2002.02.22	2006.02.23
Melv 10	392022	20	500	2002.02.22	2006.02.23
Melv 11	392023	20	500	2002.02.22	2006.02.23
Melv 12	392024	20	500	2002.02.22	2006.02.23
Melv 13	392025	14	350	2002.02.22	2006.02.23
Melv 14	392026	15	375	2002.02.22	2006.02.23
Total:	**43**	**357**	8125		

* Expiry date is subject to government approval of assessment work covered by this report.

Geology

Regional Geology

The Eskay Creek area is underlain by rocks of the Mesozoic Stikinia and Bowser Overlap assemblages. Geologists of the British Columbia Geologic Survey and the Geological Survey of Canada have subdivided the Stikinia assemblage into two groups; the Bowser Lake and Hazelton groups. The Hazelton Group has been further divided into four rock formations: Unuk River Formation, Betty Creek Formation, Mt. Dilworth Formation and the Salmon River Formation. The following units in Table 2 are summarized from Anderson and Thorkelson (1990).

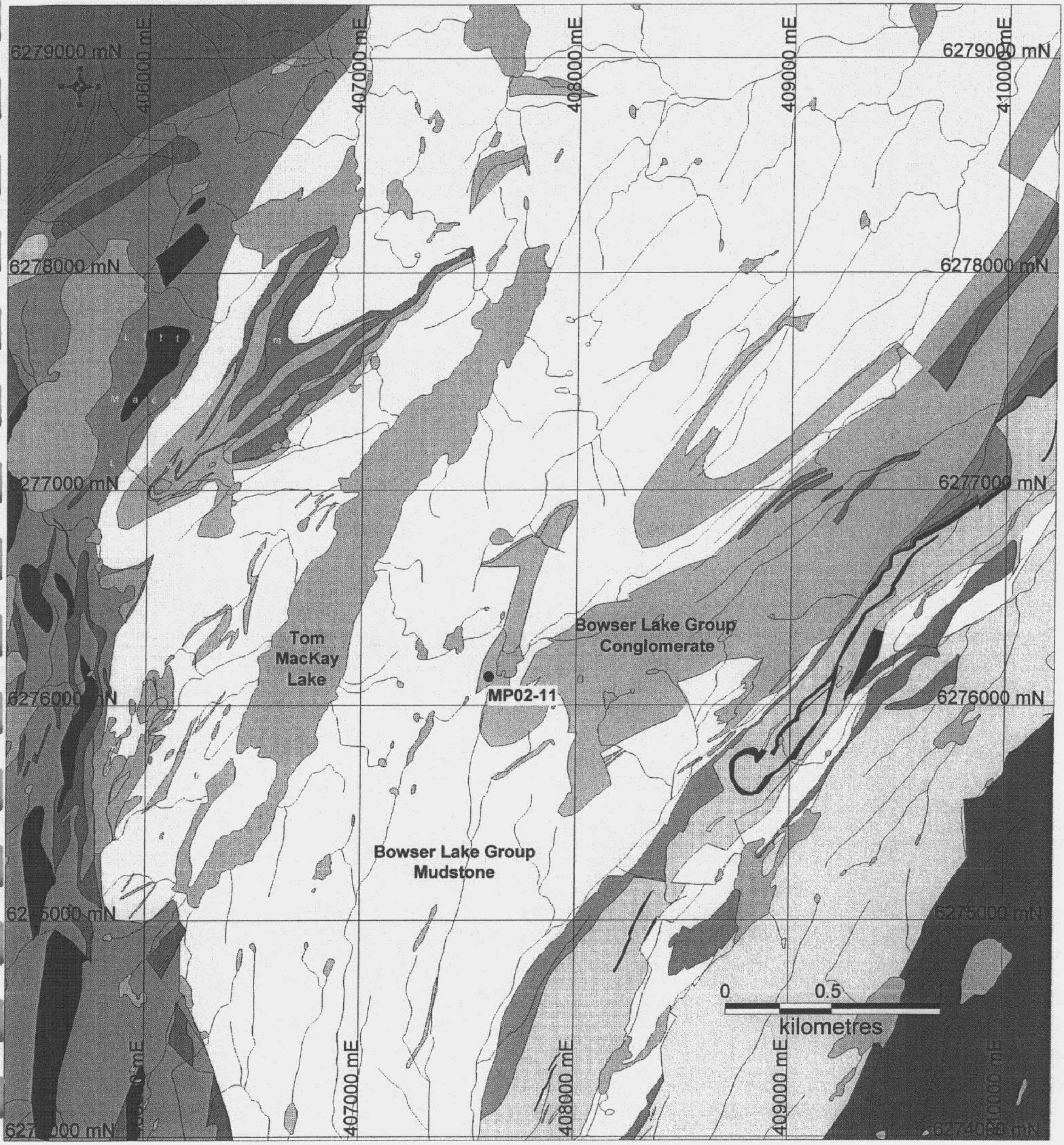
Table 2. Stikinia Assemblage Description

Formation/Group	Lithologies	Age (Ma)
Ashman Fm. (Bowser Lake Group)	Shale, siltstone, greywackes, quartz arenites and chert pebble conglomerates.	156-163 Ma
Salmon River Fm. (Hazelton Group)	(ii) black siliceous shale, white reworked tuff turbidite; pillow lava and limy to siliceous shale-siltstone; andesitic volcanics (i) thin belemnite-rich calcareous sandstone and mudstones.	163-187 Ma 187-193 Ma
Mount Dilworth Fm. (Hazelton Group)	White-maroon grey weathering welded to non-welded felsic tuff and tuff breccias. Commonly aphyric, flow-banded and spherulitic. Dacite-rhyolite composition.	?
Betty Creek Fm. (Hazelton Group)	Maroon to green volcanic siltstone, greywacke, breccia with common sedimentary structures and jasperoid veins.	193-196 Ma
Unuk River Fm. (Hazelton Group)	Rusty white-orange weathering, thinly bedded siliciclastic calareous siltstone dominates the unit.	198 Ma

Property Geology

The Bowser Lake Group comprises a thick sequence of Middle Jurassic to Late Jurassic sedimentary rocks. Sediments are believed to be eroded from the uplifted surrounding volcanic terranes.

Stratigraphy in the Bowser Lake Group consists of monotonous sequences of black mudstones with grey siltstone laminae. Generally, pyrite is sporadic, occurring in occasional fragments and laminae. Fossils are rare and mainly consist of 1-2cm carbonate-replaced belemnites. The northern end of the Prout Plateau contains thick sequences of medium to coarse-grained pale grey conglomerates (Figure 3). Conglomerates are primarily clast-supported, poorly sorted with clast composition dominated by chert pebbles. Mapping by Phillips (1996) has identified rapid thickness changes within conglomerate over



Barrick Gold Corporation
Geology Map
1:25 000 Scale
Figure 3

the extent of the Prout Plateau and the presence of graded bedding and cross-bedding. Locally the conglomerates grade into well sorted coarse sandstones.

The Prout Plateau is bounded to the east and west by regional scale faults that cut through both the Hazelton Group and Bowser Lake Group stratigraphy. The western edge of the Prout Plateau is bounded by the Unuk-Harrymel Fault while the eastern flank is bounded by the steeply northwest dipping Argillite Creek fault.

In this area both the Bowser Lake Group and Hazelton Group rocks have undergone significant amounts of east-west shortening. Shortening has been accommodated by varying amounts of faulting and folding. Mapping on the Mack and GNC claims has defined a series of syncline-anticline pairs with fold axes trending in a northeasterly direction and dipping moderately to the north. Folds are symmetric with interlimb angles of nearly 90° (Phillips, 1996).

The 2002 Mack Exploration Program

Introduction

The 2002 diamond drill program of the Mack property was initiated to test for the Hazelton Group stratigraphy below Bowser Lake Group for Eskay Creek style mineralization. This hole was targeting a magnetic anomaly within the Bowser sedimentary rocks. The depth to the Hazelton contact is considered to range from 450m to more than 950m.

Drill Hole Summary

A 4-man drill crew was mobilized by Hy-Tech Drilling in Smithers, B.C. Drilling was completed using a Tech-5000 hydraulic drill and NQ-2 sized core. Drilling on the Mack hole, MP02-11, commenced August 20, 2002 and was completed September 11, 2002.

Drilling crews and geologists worked out of the established Barrick Exploration Camp located at Km 45 on the Eskay Creek Mine access road. A Hughes 500D helicopter (from Northern Air Support of Kelona, B.C.) provided drill support. All diamond drill core was logged at the camp and then moved to the storage site at Km 44 along the Mine access road. Samples were shipped to Bondar Clegg in Vancouver.

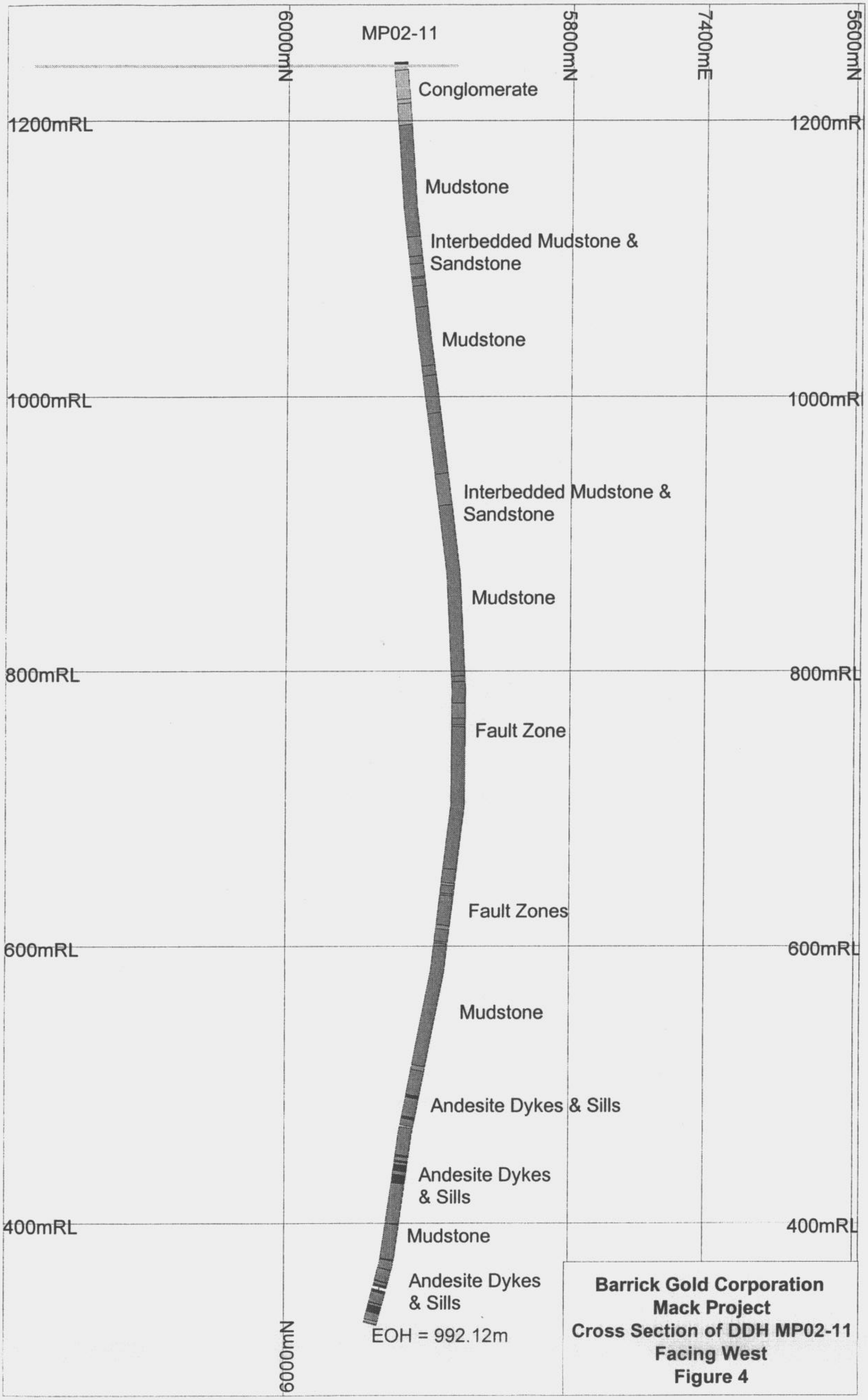
Drill core was logged directly into laptop computers using the program Lagger. All lithologies are coded using a 4-character field and rock descriptions and structures are summarized into a memo field that is used to take detailed notes. When the diamond drill log is printed, all codes are translated into standard geology terms. The information was subsequently imported MapInfo for data plotting as maps and cross-sections.

Hole MP02-11 was collared in alpine terrain on the Mack 20 claim in the southwest Prout Plateau, 1 km east of Tom Mackay Lake. Drill hole specifics are tabulated below (Table 3) for the 2002 drilling. Bedding in the area dips at 56 degrees SE.

Table 3. Mack Drill Hole Summary

Hole Number	UTM Northing	UTM Easting	Elevation	Azimuth	Dip	Length
MP02-11	6276148.0 N	407593.0 E	1243 m	270°	-82°	992.12m

Hole MP02-11 (Figure 4) collared in 50m of conglomerate and sandstone of the Bowser Lake Group, the remainder of the hole was primarily mudstone with some interbedded siltstone. Andesite dykes and sills were cored starting at 805.35m and continued to the end of the hole. The conglomerate is the heterolithic, coarse conglomerate typical of Bowser Lake Group with white, gray or black rounded cherty pebble and minor irregularly shaped mudstone clasts. Within the conglomerate, clasts range from 1-25cm in size and may show some degree of size sorting. Locally, the conglomerate is volcaniclastic.



Barrick Gold Corporation
Mack Project
Cross Section of DDH MP02-11
Facing West
Figure 4

At 50m depth, laminated mudstone was cored and continued to the base of the hole. The mudstone was generally black with wispy light grey siltstone laminations. Up to 50% interbedded siltstone occurred over few 10m intervals in beds 0.5-5m thick. Bedding was variably oriented from 40-80 deg to ca. Rare flame structures and graded bedding indicated the sequence is upright. Quartz and carbonate veining occurred locally. A series of narrow andesite dykes and sills intruded the sequence between 805 and 980m and comprised 15% of the interval. The andesite was light to dark grey-green, fine crystalline, generally had sharp, chilled margins and ranged from 0.2 to 6m in thickness. Approximately 30% of the andesite showed hematite staining in spots up to 2mm and associated with calcite crystals. The andesite intrusive rocks are interpreted to account for the magnetic anomaly in this area. The hole was shut down in laminated mudstone of the Bowser Lake Group at 992.12m. No significant assays results were returned and the depth to the hanging wall sequence is unknown.

Conclusions and Recommendations

The MP02-11 diamond drill hole was drilled to test for Hazelton Group volcanic rocks and specifically the Eskay Creek Mine sequence underling the Bowser Basin. A magnetic anomaly was used to target the hole. The hole cored Bowser Lake Group stratigraphy of 50m of conglomerate underlain by mudstone to a depth of 992.12 meters. In the lower 187m, andesite dykes and sills comprised 30% of the rock. The andesite was magnetic and accounts for the magnetic anomaly. The depth to the Hazelton Group rocks is unknown. There were no significant results and no further work is recommended.

References

Anderson, R.G. and Thorkelson, D.J. (1990): Mesozoic Stratigraphy and Setting for Some Mineral Deposits in the Iskut River Map Area, Northwestern British Columbia; *in* Current Research, Part E, *Geological Survey of Canada*, Paper 90-1F, pp. 131-139.

Bartsch, R.D. (1993): Volcanic Stratigraphy and Lithogeochemistry of the Lower Jurassic Hazelton Group, Host to the Eskay Creek Precious Metal Volcanogenic Deposit, Northwestern British Columbia; unpublished M.Sc. thesis, *The University of British Columbia*, 178 pages.

Lewis, P.D. (1995): Field Report: Mack Claims, TOK Claims Structural Geology; internal report prepared for Homestake Canada Inc, *Lewis GeoScience Services Inc.*, 15 pages.

Phillips, M.R.A. (1996): The Structure and Stratigraphy of the Prout Plateau, Iskut River Map Area, Northwestern British Columbia; unpublished B.Sc. thesis, *The University of British Columbia*, 72 pages.

Appendix A

Statement of Expenditures

Statement of Expenditures

Barrick Gold Corporation
Project Name: Mack **TOTAL COSTS: $150,466.70**
Code: 905-10-2042-60000
Date of Expenditure: August 20 to September 11, 2002

Description	Period	Amount	Rate	Net
SALARIES				
Technical		Days		
A. Buschman - Proj. Geologist	Aug 20-Sept 11	23	$280.00	$6,440.00
Temporary/Seasonal/Contract				
B. McDowell - Geotechnician	Aug 20-Sept 11	23	$180.00	$4,140.00
			Subtotal:	**$10,580.00**
DRILLING				
Incl. drilling supplies, fuel, etc.	Aug 20-Sept 11			$105,371.18
			Subtotal:	**$105,371.18**
ANALYSIS, ASSAY, METALLURGICAL		Samples		
Assays		46	$8.58	$394.68
Whole Rock		2	$19.90	$39.80
			Subtotal:	**$434.48**
FIELD / CAMP				
Food and Accommodation		Days		
4 Drillers	Aug 20-Sept 11	92	$42.74	$3,932.08
A. Buschman	Aug 20-Sept 11	23	$42.74	$983.02
B. McDowell	Aug 20-Sept 11	23	$42.74	$983.02
			Subtotal:	**$5,898.12**
TRANSPORTATION, AIR SUPPORT		Hours		
Helicopter (inc. fuel, mob/demob)	Aug 20-Sept 14	33.4	$843.80	$28,182.92
			Subtotal:	**$28,182.92**
			TOTAL:	**$150,466.70**

Appendix B

Diamond Drill Log MP02-11

Barrick Gold Corporation **Eskay Creek Project**	BARRICK	**Diamond Drill Log** **MP02-11**
Mine North: 5921.42 Mine East: 7466.17 Length: 992.12 Elevation: 1243.000	Mine Azimuth: 270.0 Start Dip: -82.0 Date Started: 20/08/2002 Date Completed: 11/09/2002 Core Diameter: NQ	Logged By: AB Geoteched By: BM Contractor: Hy-Tech Assayed By: Acme

Hole Summary:

This drill hole is testing a magnetic anomaly. The hole commenced drilling on August 20, 2002 and is planned to target the anomaly at a depth of 400-750 metres.

Drilling continued smoothly through conglomerates and mudstones of the Bowser group until 500.48 (2061-2068ft) when a fault was interestected. The structure extended to 502.0m and was making drilling conditions difficult. Two applications of cement were used and, after only intersecting 3-5 ft of cement of the second 100 foot batch, drilling continued smoothly.

At 638.19m (2061-2068ft) a similar fault was intersected and 100 ft of cement was placed in the hole.

The hole collared in conglomerates and sandstones of the Bowser Group but within 50 metres, changed to laminated mudstones. At 805m, the first of many andesite sills and dykes was cored. These andesite intrusive rocks are interpreted to account for the magnetic anomaly. The hole was shut down in laminated mudstone of the Bowser Lake Group at 992.12m. The depth to the Hanging Wall sequence is unknown.

The casing was left in upon completion and the hole was not grouted

Depth	Dip	True Azimuth	Mine Azimuth

GEOLOGICAL SUMMARY

From	To	Rocktype & Description	MP02-11
0.00	3.54	OVER	
3.54	5.95	BSSS	
5.95	27.73	BDCG	
27.73	30.94	BSSS	
30.94	46.50	BDCG	
46.50	128.89	BMLM	
128.89	143.21	BSIB	
143.21	149.05	BMLM	
149.05	158.80	BSIB	
158.80	160.00	BMLM	
160.00	165.47	BMLM	
165.47	181.16	BMLM	
181.16	225.55	BMLM	
225.55	232.98	BMLM	
232.98	261.21	BMLM	
261.21	306.44	BMLM	
306.44	330.10	BSIB	
330.10	462.08	BMLM	
462.08	466.34	BMLM	
466.34	483.11	BMLM	
483.11	495.45	BSIB	
495.45	500.48	BMLM	
500.48	502.00	GMFG	
502.00	616.76	BMLM	
616.76	628.19	BMLM	
628.19	630.33	GMFZ	
630.33	637.03	BMLM	
637.03	638.56	GMFG	
638.56	663.24	BMLM	

GEOLOGICAL SUMMARY

MP02-11

From	To	Rocktype & Description
955.18	957.67	BMLM
957.67	959.71	DADK
959.71	962.21	BMLM
962.21	963.59	DADK
963.59	964.39	BMLM
964.39	964.57	DADK
964.57	973.84	BMLM
973.84	974.29	DADK
974.29	976.18	BMLM
976.18	982.18	DADK
982.18	988.86	BMLM
988.86	991.16	GMFZ
991.16	992.12	BMLM

From	To	Rocktype & Description
0.00	3.54	OVER
3.54	5.95	BSSS

Sandstone coarsens upwards from a finer medium grained sand to a coarser medium grained sand (2.0 phi - 1.0 phi grain size.)

There is a bedding plane at 3.68m of 56 deg.

5.95 27.73 BDCG

The contact with the sandstone is abrupt with a contact plane of 63 deg.

The conglomerate coarsens downhole with the upper segments composed of ~ 50% clasts in a sandy-silty matrix. The clasts from the upper portion of the conglomerate are ~ 60% small 3-5mm diameter

rounded quartz clasts and 40% 2-3cm diameter rounded mudstone clasts.

As the conglomerate coarsens the composition of the clasts becomes 20% quartz, 50% mudstone, 15% andesitic volcanics, 10% siltstone, and 5% pale green fine-grained volcanics.

In the upper half of the conglomerate there is intermittent quartz flooding of fractures in the rock.

At 24.08m the unit changes from a conglomerate with large mud and andesite clasts with a sandy-silt matrix to a conglomerate with a fine-grained mud matrix with 0.5cm to 1cm diameter quartz clasts.

The matrix/clast ratio is ~ 50-50 for this section. The section ends at 26.00m.

The remainder of the conglomerate is similar to the finer conglomerate from the top of the unit.

27.73 30.94 BSSS

The contact between the conglomerate and the sandstone is an abrupt conformable contact between the conglomerate and a mudstone, which quickly coarsens to a sandstone over ~20cm.

At 29.47m there is a bedding plane of 58 deg.

30.94 46.50 BDCG

The contact with the sandstone is gradational with the sandstone coarsening to a sandy matrix conglomerate over ~8cm.

The conglomerate contains 10% quartz clasts and 90% mud clasts. The clasts are mostly rounded, with a few sub-angular mud clasts. The clast size increases downhole.

From	To	Sample	Au (g/t)	Ag (g/t)	Pb %	Zn %	Cu %	As %	Hg ppm	Sb %

From	To	Rocktype & Description

At 33.53m there is a belemnite.

Starting at 42.35m there are occasional 1-7cm thick laminations of mud interspaced 15-30cm apart. These continue to the end of the unit.

At 43.32m the bedding of a mud lamination in the conglomerate is 36 deg.

Near the contact there is ~5cm of calcite flooding.

46.50 128.89 BMLM

The contact between the conglomerate and the mudstone is abrupt and conformable, with a contact plane of 53 deg.

The mudstone contains 5% silt interbedding in the form of 1-5mm thick laminations of silt.

Continuing from the contact area for another 8m (to 54.50m) there is further calcite flooding, which makes up <5% of the rock for this section.

From 61.27m to 61.57m there is broken mud fragments, with 10cm of gouge from 61.47m to 61.57m.

At 72.24m there is a 64 deg bedding plane.

At 85.34m there is a 1mm thick lamination of pyrite.

From 95.56m to 95.86m there is broken mud fragments with the last 5cm being gouge.

At 97.18m there is a 1cm thick pyrite lamination.

At 110.95 there is a 1cm thick section of pyrite flooded into fractures in the mudstone.

At 113.08m there is a 68 deg bedding plane.

128.89 143.21 BSIB

The contact between the mudstone and mudstone-siltstone interbedded units is conformable and gradual.

The mudstone and siltstone have compositions of 50-50, with interlaminated beds 0.5cm to 5cm thick.

At 139.90m there is a 63 deg bedding plane.

143.21 149.05 BMLM

The contact between BSIB and BMLM is gradual and conformable.

The BMLM unit is 5-8%, which forms 1-5mm thick silt interbeds.

At 143.60m there is 2cm thick pyrite vein.

At 147.22m there is a 1cm thick pyrite lamination.

From	To	Sample	Au (g/t)	Ag (g/t)	Pb %	Zn %	Cu %	As %	Hg ppm	Sb %

From	To	Rocktype & Description
149.05	158.80	BSIB

The contact between the BMLM and the BSIB is conformable and gradual.

The interbedded silt and mudstone laminations are 0.5-2cm thick.

At 152.10m there is a 65 deg bedding plane.

At 157.89m there is wavy bedding of siltstone and mudstone.

158.80 160.00 BMLM

The contact between the BSIB and the BMLM is conformable and gradual.

The BMLM is 10% siltstone in 1-5mm thick laminations.

160.00 165.47 BMLM

This interval is represented by a dark grey laminated mudstone and aprox. 5% silt laminations. The bedding of the mudstone is 69 deg off core axis (@ 160.32m). The fractures seen in the core are

parallel to the bedding plane with 15 fractures per metre. Of note is 0.30m broken section (30 frac/m) with 0.10m of gouge almost mid-point in the section.

165.47 181.16 BMLM

Dark grey mudstone with ~5 to 10% silt laminations. The core of this interval is not broken or containing enough gouge to be classified as a fault-zone but the interval is fairly broken (30-35

fractures/metre) and the fractures are more radom than previously seen but overall the fractures are parallel to the bedding (one 0.15m gouge section noted). The average core fragment is 0.06m long

with a range of 0.03m to 0.15m. Also of note is the 0.10m section of carbonate vienning seen at 166.12m.

From 167.90m on the bedding planes become graphitic.

12 pyrite laminations are scattered throughout this interval but increase in there occurence near the end of the interval.

Bedding = 68 degrees off core axis @ 168m

181.16 225.55 BMLM

Dark to medium grey mudstone laminations with silt laminae making up an average of 15% of the rock but in the last 2 to 3m of the interval the silt content increases gradually to aprox. 50% of the

rock composition. The upper 4.77m has a fracture density near 40 frac/m (average core

From	To	Sample	Au (g/t)	Ag (g/t)	Pb %	Zn %	Cu %	As %	Hg ppm	Sb %

From	To	Rocktype & Description	From	To	Sample	Au (g/t)	Ag (g/t)	Pb %	Zn %	Cu %	As %	Hg ppm	Sb %

piece is ~7cm) with only one 0.10m thick rubbly/gouge portion but the fractur density drops to 7 frac/m and only

one 0.10m secton of gouge was noted.

Bedding = 70 deg off core axis @ 186.27m

= 76 deg off core axis @ 214.98m

225.55 232.98 BMLM

Mudstone laminae with aprox. 15% silt. The core of this interval is nearly obscured by the intense carbonate stockwork viening which makes up aprox. 50% of the core. The bedding planes are graphitic

Bedding = 37 deg off core axis @ 227.07m

Lower contact: sharp & marked by the disappearence of the stockwork viening.

232.98 261.21 BMLM

Mudstone laminations (dark-grey) with ~2% silt laminae. Fracture density = 10 fractures per metre with one section (0.50m long) marked by the increase in the density to 40 frac/m. Bedding planes

graphitic. Carbonate viening rare near the end of the section (3 viens/metre).

Bedding = 30 deg off core axis @ 235.79m

= 10 deg off core axis @ 244.00m

261.21 306.44 BMLM

Mudstone laminations with 10-50% silt increasing with depth. Fracture density 5 frac/m but of note is the four 0.50m sections scattered thoughout with <45 frac/m. Carbonate viening seems to have

formed along fracture surfaces both parallel and sud-perpendicular to the bedding planes in a 20 cm section with 30 viens per metre. Only one 1cm thick bed of pyrite noted@ 297.83m

Bedding = 70 degrees off core axis @ 293.30m

= 70 degrees off core axis @ 294.40m

Cleavage= 22 degrees off core axis @ 294.40m (vague)

The mudstone increases in silt content from 5% to 50% over 4m starting at 302m.

306.00m there are 2-5mm wide siltstone laminations with pyrite flecks in them.

The bedding at 304.59m is 65 deg.

From	To	Rocktype & Description	From	To	Sample	Au (g/t)	Ag (g/t)	Pb %	Zn %	Cu %	As %	Hg ppm	Sb %
306.44	330.10	**BSIB** The mudstone-siltstone ratio is approximately 50-50 for the BSIB unit. The siltstone/mudstone laminations vary from 0.2cm to 10cm in width . There are wavy beds and some flame structures. 317.87m has bedding at 68 deg. There is a pyrite bleb at 321.57m. From 321.57m to 324.35m the pyrite content in the siltstone is moderate. At 324.35m the pyrite content in the siltstone increases and there is calcite flooding over 30cm. From 324.35m to the lower contact, the mudstone content increases.											
330.10	462.08	**BMLM** At the contact there is 10cm of calcite flooding. In the metre after the contact the siltstone content is ~10%. Over the next 12 meters (to 342m) the siltstone content drops to less than 5%. 332.00m bedding of 76 degrees. A pyrite band replaces a siltstone lamination at 342.38m. Over the range 342.77m to 343.00m the pyrite content in the siltstone is ~20% (siltstone content is ~20% of rock.) 347.10m bedding of 70 deg. 348.39m bedding of 72 deg, cleavage of 10 degrees. At 367.00m there is a 30cm long section of siltstone. 367.20m bedding of 70 deg. At 368.20m there are pyrite bands and blebs that continue for 10cm. From 369.72m to 372.16m there is broken core. The graphite content is higher along the fractures. There is no gouge. There is a pyrite bleb at 376.90m. At 384.35m there is a 30cm long section of calcite flooding containing broken mudstone fragments ranging in size from 1cm diameter to 10cm diameter. At 384.96 there is a 1mm wide pyrite band. From 383m to 391m the mudstone grain size increases, but remains fine enough to not be a siltstone.											

From	To	Rocktype & Description	From	To	Sample	Au (g/t)	Ag (g/t)	Pb %	Zn %	Cu %	As %	Hg ppm	Sb %

391.36m bedding of 62 deg. There is also a reddish pyrite band 3mm wide.

From 393m-400m the core is broken.

399.29m bedding of 34 deg.

400.81m bedding of 15 deg.

From 408.74m onwards, there are 'bulls-eye-like' structures visible.

At 421.84m there is a pyrite bleb 2cm in diameter.

423.37m bedding of 20 deg.

At 429.70m there is a pyrite bleb 1cm by 2cm.

From 438.50m to 443.18m there is broken core that is graphitic along the fractures.

From 448.67m to 451.00m there is broken core with intense calcite flooding.

452.02m bedding of 19 deg.

From 454.15m to 457.20m there is broken, graphitic core.

459.94m bedding of 31 deg.

From 462 to the end of the box (~ 463.75m) the core is broken.

Bedding is 31 deg at 459m.

462.08 466.34 BMLM

This zone is a moderately rubbly fault zone (GMFZ). The core is badly broken and has more than 30 fractures per metre.

Some very minor quartz veining occurs along fracture surfaces, veins are less than 0.3cm thick.

466.34 483.11 BMLM

The mudstone in this zone has near vertical bedding with relation to the core axis.

Some evidence of soft sediment deformation is present in the lighter coloured laminations of siltstone (<5%).

Bedding: 5 degrees at 475.79m.

483.11 495.45 BSIB

A zone of primarily mudstone with siltstone laminations that make up about 5% of the core.

Quartz veining reappears in this zone sporadically, veins are typically less than 0.3cm thick.

From	To	Rocktype & Description	From	To	Sample	Au (g/t)	Ag (g/t)	Pb %	Zn %	Cu %	As %	Hg ppm	Sb %

Some of the fracture sufaces are mildly graphitic.

Bedding: 15 deg at 485.85m.

Bedding: 5 deg at 494.69m.

Cleavage: 40 deg at 494.69m.

The bedding begins to steepen around 490.73m.

495.45 500.48 BMLM

Another zone of faulting (GMFZ), surfaces are more graphitic than previous fault zones. Rock is badly broken, fractures per metre cannot be counted. Some very minor quartz veining occurs in some

fracture surfaces (< 0.2cm thick).

500.48 502.00 GMFG

A badly faulted (GMFG) zone of mudstone, approximately 60% gouge material. Any fragments that do exist are less than 0.3cm in diameter, the rest of the material is clay like gouge of fine mudstone

chips.

502.00 616.76 BMLM

Interval composed of a well laminated medium grey mudstone with silt laminae making up an average of 20% of the overall core (but ranging from 10% to 50%). The silt % increases to ~50% at 594.97m

the end of the interval.

Fracture density is ~7 fractures per metre and pyrite laminations are rare (only 2 observed = 1 @ 586.44m and the 2nd @ 594397m).

Carbonate viening is also rare as only 2 viens exist over ~10m and the viening dominatly follows bedding planes.

Bedding = 43 deg off of core axis @ 517.55m.

Bedding = 65 deg off of core axis @ 530.96m.

Cleavage= 39 deg off of core axis @ 530.96m.

Bedding = 55 deg off of core axis @ 547.29m.

Bedding = 47 deg off of core axis @ 551.99m.

Cleavage= 23 deg off of core axis @ 551.99m.

Bedding = 55 deg off of core axis @ 580.64m.

From	To	Rocktype & Description	From	To	Sample	Au (g/t)	Ag (g/t)	Pb %	Zn %	Cu %	As %	Hg ppm	Sb %

Cleavage= 21 deg off of core axis @ 580.64m.

Bedding = 52 deg off of core axis @ 608.99m.

Cleavage= 24 deg off of core axis @ 608.99m.

Bedding = 52 deg off of core axis @ 615.39m.

Cleavage= 17 deg off of core axis @ 615.39m.

Lower Contact (LCT) marked by the gradual increase in the fracture density.

616.76 628.19 BMLM

Heavily fractured (but not enough to be considered faulted), medium-grey, laminated mudstone, with an average of 20% silt overall. Fracture density is ~40 Fractures/metre with two, one metre long

sections of 20 frac/m. The fractures seemed to have a random orientation.

Viening density (stockwork) is up to 50 viens over a metre but the overall density of the viens is ~ 10 viens/metre.

Of note is the 1 pyrite bed that the interval's cleavage/bedding measurements were taken off of (@ 622.10) and graphitic nature of the cleavage planes.

Bedding = 70 deg off of core axis @ 622.10.

Cleavage= 17 deg off of core axis @ 622.10.

Bedding = 70 deg off of core axis @ 626.97.

Lower Contact (LCT) sharp and marked by the occurence of rubble.

628.19 630.33 GMFZ

A rubbly mudstone fault zone with very graphitic fracture planes.

There was one 1/2 metre section of rubbly gouge at the top of the interval (@ 628.30m). Core fragments range from 0.10m to 0.01m in size with the average fragment being ~0.01m in size.

Carbonate viening in the interval is stockwork and has a density of 20 viens/metre.

The lower contact (LCT) is marked by the gradual decrease in fracture density.

630.33 637.03 BMLM

Interval composed of a laminated medium-grey mudstone with a fracture density of 30frac/m. Fractures follow bedding and cleavage planes (note: fracture planes are very graphitic). Carbonate vieni

has a density of 25 viens/m.

From	To	Rocktype & Description	From	To	Sample	Au (g/t)	Ag (g/t)	Pb %	Zn %	Cu %	As %	Hg ppm	Sb %
		Rubble sections 0.20-0.30m long scattered thoughout.											
637.03	638.56	**GMFG** Very soft, gouged and broken. 60 - 70 % mudstone											
638.56	663.24	**BMLM** Laminated mudstone. Bedding angle of 50' (taken @ 649.53 m) with 80% mudstone concentration. Small section of broken, graphitic core from 642.52 - 643.13 m. Pyrite bedding planes @ 650.94 and 652.88 m. Silt bedding averages in thickness between 0.2 and 1 cm, and rarely as thick as 5 cm. Bedding planes range from 0.5 to 3 cm apart.											
663.24	666.60	**GMFZ** Very broken, soft gouged fault.											
666.60	676.66	**BMLM** Silt bedding averaging 0.1 to 0.3 cm thick with 1 cm spacing (90% mudstone concentration overall), some silt bedding rarely as thick as 1.5 to 4 cm thick. 25 deg angle of bedding (taken @ 669.49 m). some faulting and minor gouging at lower end of zone.											
676.66	678.18	**GMFG** Zone of broken core. Minor gouging through 20 % of zone. pyrite bedding @ 675.13 m.											
678.18	780.59	**BMLM** Silt bedding averaging 0.2 to 3 cm thick at 3 to 10 cm spacing (85% mudstone concetration overall). Bedding shallows from approx. 25 deg near top of zone to 0 deg by 711.10 m, than increases to 80 d by 758.65 m. Pyrite bedding @ 680.92 m, 683.06 m, 689.15 m, 740.36 m and 742.49 m. Andesite layer from 761.70 to 762.15 m.											
780.59	784.56	**GMFZ** Broken fault zone, gouging occurs in 40% of zone.											
784.56	805.35	**BMLM** Silt beds averaging between 0.1 and 0.3 cm thick and 1 cm spacing with occasional thicker silt beds to 1 cm. Silt comprises 20-30% of interval. Bedding angle shallows from 80' near top of zone to 32' by 800.10 m.											

From	To	Rocktype & Description
		Pyrite bedding @ 796.75 m and 797.97m.
805.35	**807.45**	**DADK** Andesite sill. Chilled margins present but very fine grained crystals throughout. Multiple andesitic pulses (secondary with a chilled margin ~ 0.4 cm thick) occur within the dyke. This sill is not magnetic. Sill contains medium grained, hematite-stained calcite crystals. Calcite veining throughout the sill, range in size from sub mm to 1 cm, the larger veins are at 30 deg, the smaller ones meander and have no common orientation. Top contact 31deg at 805.35, contact regular. Bottom contact 30 deg at 807.45 contact irregular
807.72	**823.23**	**BMLM** Silt bedding averaging 0.1 cm thick with 0.5 cm spacing (90% mudstone concentration overall). Bedding angle of 13 deg (taken @ 815.04).
823.23	**825.26**	**DADK** Andesite sill. Very fine grained with chill margins (6cm true thickness) at upper and lower contact. Hematite stained calcite crystals (ave sub-mm to 2mm in size and comprise 10% of rock), magnetic, darker staining away from margin, light green on margin. Top contact at 823.23 at 16 deg. Bottom contact at 825.26 at 16 deg. True thickness of sill about 25 cm. Trace disseminated py throughout this section, most notable at 823.48 and 824.30.
825.40	**831.19**	**BMLM** Mudstone, 15-20% siltstone ranging in size from mm - 1cm (ave 0.5cm) bedding at 17 deg.

From	To	Sample	Au (g/t)	Ag (g/t)	Pb %	Zn %	Cu %	As %	Hg ppm	Sb %
804.00	805.28	200608	0	0.40	0	0.06	0.01	0	0.20	0
805.28	806.37	200609	0	0.10	0	0.01	0.01	0	0.21	0
806.37	807.45	200610	0	0.10	0	0.02	0.01	0	0.30	0
807.45	809.00	200611	0	0.20	0	0.02	0.01	0	0.13	0
814.00	815.00	200612	0	0.20	0	0.02	0.01	0	0.14	0
822.00	823.23	200613	0	0.20	0	0.02	0.01	0	0.10	0
823.23	824.23	200614	0	0.10	0	0.01	0.01	0	0.06	0
824.23	825.26	200615	0	0.10	0	0.01	0.01	0	0.04	0
825.26	826.19	200616	0	0.20	0	0.02	0.01	0	0.15	0

From	To	Rocktype & Description
		Calcite vein ranging from mm - 1cm, frequency of > 30cm
831.19	832.26	**VQZV** Quartz vein, brecciated mudstone incorporated within the vein.
832.26	854.10	**BMLM** Mudstone, 25-30% silt, pyrite beds at 839.72 and 850.24, bedding at 846.43m 75 deg, silt thickness mm - 1.5 cm - ave 0.5cm
854.10	854.30	**DADK** Andesite dike. Calcite present with some hemitite staining, comprises up to 10% of section. Approx true thickness 10 cm. Top contact 40 deg, contact sharp, 0.5 cm calcite vein present at contact. Bottom contact 44 deg, contact sharp with calcite < 0.5 cm calcite vein present. Chill margins grade to lighter green.
854.30	855.22	**BMLM** Mudstone. Bedding mm-0.5cm - ave 0.3cm
855.22	855.44	**DADK** Andesite Dike. Top contact 45 deg and sharp. Bottom contact 43 deg and irregular. Chill margins grade to lighter green and are less then 0.5 cm. 10% calcite cryatals present
855.44	858.45	**BMLM** Mudstone. Bedding mm- 0.5 cm ave 0.3 cm. Calcite veins periodically troughout section, ranging in size from mm to 1 cm (ave 0.5 cm)

From	To	Sample	Au (g/t)	Ag (g/t)	Pb %	Zn %	Cu %	As %	Hg ppm	Sb %
853.00	854.10	200617	0	0.20	0	0.02	0.01	0	0.12	0
854.10	855.26	200618	0	0.10	0	0.02	0.01	0	0.06	0
855.26	857.00	200619	0	0.20	0	0.03	0.01	0	0.10	0
857.00	858.45	200620	0	0.30	0	0.04	0.01	0	0.10	0

From	To	Rocktype & Description
		Silt bedding at intervals of 0.5 to 1 cm
858.45	**859.64**	**DADK**
		Andesite dike
		Margins grade to a lighter green
		Top contact 40 deg and sharp, calcite present at contact
		Bottom contact 40 deg and sharp with calcite present
859.84	**861.84**	**BMLM**
		Mudstone
		Slit beds mm- 1cm- ave 0.5cm, 15-20% silt
861.84	**866.48**	**DADK**
		Andesite dike
		Chill margins grade to a lighter green
		20%mudstone with calcite and quartz veins with py, ranging in size from mm - 1 cm
		Small (mm size) calcite crystals throughout, 10 % of interval
		Trace disseminated py in dyke.
866.48	**869.54**	**BMLM**
		Mudstone
		Pyrite at 867.16 and 866.69
		Slit beds mm- 2 cm - ave 1 cm
869.54	**876.00**	**DADK**
		Andesite dike
		20% mudstone, pyrite at 870.40 and 871.73
		Calcite crystals, mm size, make up 20% of section, some hemitite statining
		Chlorite/calcite slickenside in the mudstone and dike
876.00	**907.39**	**BMLM**
		Mudstone,
		Bedding at 888.49 at 53 degrees, pyrite at 898.25 and 876.91, silt 25-30%, bedding thickness mm-1.5cm - ave 0.5cm
907.39	**907.90**	**DADK**
		Andesite sill,

From	To	Sample	Au (g/t)	Ag (g/t)	Pb %	Zn %	Cu %	As %	Hg ppm	Sb %
858.45	859.64	200621	0	0.10	0	0.01	0.01	0	0.02	0
859.64	861.00	200622	0	0.50	0	0.06	0.01	0	0.11	0
861.00	861.84	200623	0	0.30	0	0.03	0.01	0	0.07	0
861.84	862.76	200624	0	0.10	0	0.01	0.01	0	0.05	0
862.76	863.28	200625	0	0.20	0	0.03	0.01	0	0.03	0
863.28	864.46	200626	0	0.05	0	0.01	0.01	0	0.05	0
864.46	865.41	200627	0	0.30	0	0.04	0.01	0	0.06	0
865.41	866.48	200628	0	0.10	0	0.01	0.01	0	0.04	0
866.48	867.18	200629	0	0.20	0	0.03	0.01	0	0.04	0
867.18	868.00	200630	0	0.20	0	0.03	0.01	0	0.05	0
868.00	869.45	200631	0	0.30	0	0.04	0.01	0	0.06	0
869.45	871.12	200632	0	0.20	0	0.03	0.01	0	0.05	0
871.12	871.76	200633	0	0.40	0	0.06	0.01	0	0.04	0

From	To	Rocktype & Description

Chill margins grade to lighter green

Minor mudstone

Calcite crystals, mm size, make up 20% of section, some hemitite statining

907.90 935.13 BMLM

Mudstone

Pyrite at 920.13, quartz and pyrite mixed throughout this section, silt mm-2 cm - ave 0.5 cm , slit content 30%

935.13 936.04 DADK

Andesite dyke

Chill margins grade to lighter green

Minor mudstone present.

<1% Calcite crystals

936.04 943.64 BMLM

Mudstone

Silt bed mm- 2cm in size (ave 0.5 cm), occur at irregular interval (0.5 - 10 cm), bedding at 940.29m is 86 deg and 40 deg at 942.22m

Py crystals at 942.93 m

Calcite and quartz veining at irregular intervals, mm - 2cm in size at different orientations between core axis and bedding

943.64 943.90 DADK

Andesite dyke

Contact irregular with clast of mudstone incorporated along margin

943.90 954.47 BMLM

Mudstone

Massive Py throughout section but most notable at 944.16 m 945.00 m

Silt bedding 949.83m is 60 deg, mm - 2cm (ave 0.5)

Quartz and calcite veining mm- 2cm, irregular orientation, veins meander

Graphitic texture present

From	To	Sample	Au (g/t)	Ag (g/t)	Pb %	Zn %	Cu %	As %	Hg ppm	Sb %
953.44	954.47	200634	0	0.10	0	0.02	0.01	0	0.11	0
954.47	955.18	200635	0	0.10	0	0.01	0.01	0	0.04	0

From	To	Rocktype & Description
954.47	955.18	**DADK** Andesite sill Calcite crystals with hematite staining throughout section Contacts, top and bottom, are sharp at about 32 deg Chill margins grade to lighter green
955.18	957.67	**BMLM** Mudstone Highly fractured and faulted, 15 cm sections of broken rock throughout. Small 20 cm andesite dike at 955.59 - 956.00, contact irregular Graphitic texture Quartz and calcite veining at irregular intervals, ranging in thickness from mm - 2 cm (ave 0.5cm), no specific orientation
957.67	959.71	**DADK** Andesite dike Top contact irregular, bottom contact sharp Chill margins grade to lighter green Small calcite crystals throughout section, some hematite stained, 10% of section Euhedral crystal, probably apatite or augite altered to chlorite, makes up about 1-2% of section Plagioclase altered to chlorite, makes up about 1-2% of section
959.71	962.21	**BMLM** Mudstone Bedding 51 deg at 959.87m Silt beds range in size from mm - 1.5 cm, make up about 20% Calcite and quartz veining ocurr throughout at irregular intervals and orientation
962.21	963.59	**DADK** Andesite dike Both top and bottom contacts are irregular Quartz and calcite veins at random orientation Py, massive at 962.74

From	To	Sample	Au (g/t)	Ag (g/t)	Pb %	Zn %	Cu %	As %	Hg ppm	Sb %
955.18	956.28	200636	0	0.10	0	0.02	0.01	0	0.10	0
956.28	957.67	200637	0	0.20	0	0.02	0.01	0	0.09	0
957.67	958.77	200638	0	0.20	0	0.02	0.01	0	0.06	0
958.77	959.71	200639	0	0.20	0	0.02	0.01	0	0.06	0
959.71	961.17	200640	0	0.60	0	0.07	0.01	0	0.11	0
961.17	962.21	200641	0	0.20	0	0.03	0.01	0	0.08	0

From	To	Rocktype & Description

Small calcite crystals make up 5-10% of section

963.59 964.39 BMLM

Musdstone

20% mudstone, pyrite at 870.40 and 871.73

Calcite crystals, mm size, make up 20% of section, some hemitite statining

964.39 964.57 DADK

Andesite dike

Contact irregular with clasts of mudstone mixed in at the margins

Calcite vein mm in size running at various angles from core axis

Magnetic

964.57 973.84 BMLM

Mudstone

Black grey colour

Bedding oriented between 25 - 30 deg

Silt bed range in size from mm - < 0.5 cm, make up about 5 - 10% of interval.

Calcite and quartz veining occur throughout at irregular intervals and orientation; comprise about 10% of section. Veining occurs at various angles to core axis with some (~ 50% of veins in this

section) sub parallel to core axis, about 10% are sinuous and meander, the rest are blebs of quartz and calcite

Small andesite sill at 966.38 - 966.57m, green grey colour, massive, hematite stained calcite crystals (1-2% of sill)

Graphitic texture throughout

973.84 974.29 DADK

Small massive andesite sill

Green grey colour

Calcite crystals (1-2% of sill), minor hematite staining on some of the crystals

Calcite/Quartz veining at random orientation and interval

974.29 976.18 BMLM

Mudstone

From	To	Sample	Au (g/t)	Ag (g/t)	Pb %	Zn %	Cu %	As %	Hg ppm	Sb %
962.21	963.01	200642	0	0.20	0	0.02	0.01	0	0.04	0
963.01	963.59	200643	0	0.10	0	0.01	0.01	0	0.04	0
963.59	964.57	200644	0	0.30	0	0.03	0.01	0	0.11	0
972.80	973.84	200645	0	0.20	0	0.04	0	0	0.07	0
973.84	974.29	200646	0	0.10	0	0.01	0	0	0.02	0

From	To	Rocktype & Description

Black grey colour

Bedding oriented between 25 - 30 deg

Silt bed range in size from mm - < 0.5 cm, make up about 5 - 10%.

Calcite and quartz veining occur throughout at irregular intervals and orientation, make up about 10% of section, veining occurs at various angles to core axis, large 24 cm thick quartz /calcite vei

at 975.45m.

Graphitic texture throughout

976.18 982.18 DADK

Large (~6m) massive andesite dike

Green grey colour

Calcite crystals (1-2% of sill), minor hematite staining on some of the crystals

Calcite/Quartz veining at random orientation and interval

Laminated mudstone intervals between 20 - 55 cm in length, bedding 65 deg at 976m

Minor (1-2%) feldspar blebs

Magnetic

982.18 988.86 BMLM

Mudstone

Black grey colour

Bedding oriented between 25 - 30 deg

Silt beds range in size from mm - < 0.5 cm, make up about 5 - 10%, one large massive silt bed at 982.82 - 983.33

Calcite and quartz veining occur throughout at irregular intervals and orientation, make up about 10% of section, veining occurs at various angles to core axis, large 24 cm quartz /calcite vein at

975.45m

Graphitic texture throughout

988.86 991.16 GMFZ

Mudstone fault zone

Graphitic tecture

From	To	Sample	Au (g/t)	Ag (g/t)	Pb %	Zn %	Cu %	As %	Hg ppm	Sb %
974.29	975.23	200647	0	0.10	0	0.02	0	0	0.03	0
975.23	976.18	200648	0	0.10	0	0.01	0	0	0.03	0
976.18	977.18	200649	0	0.10	0	0.01	0.01	0	0.04	0
977.18	978.18	200650	0	0.05	0	0.01	0	0	0.03	0
979.18	980.45	200651	0	0.10	0	0.01	0.01	0	0.08	0
980.45	981.30	200652	0	0.10	0	0.02	0	0	0.07	0
981.30	982.18	200653	0	0.10	0	0.01	0	0	0.05	0
982.18	983.33	200654	0	0.10	0	0.01	0	0	0.03	0

From	To	Rocktype & Description	From	To	Sample	Au (g/t)	Ag (g/t)	Pb %	Zn %	Cu %	As %	Hg ppm	Sb %
		Calcite veining throughout, random orientation and interval, sinuous, meandering and offset, make up about 5% of section											
		5cm gouge zone throughout section											
991.16	992.12	**BMLM**											
		Mudstone											
		Black grey colour											
		Bedding oriented between 25 - 30 deg											
		Silt bed range in size from mm - < 0.5 cm, make up about 5 %											
		Calcite and quartz veining occur throughout at irregular intervals and orientation, make up about 5%											
		Graphitic texture throughout											
		END of HOLE 992.12											

Appendix C

Statement of Qualifications

STATEMENT OF QUALIFICATIONS

I, ALETHA BUSCHMAN, of Vancouver, British Columbia, do hereby certify that:

1. I am presently employed by Barrick Gold Corporation of 951-409 Granville Street, Vancouver, British Columbia as a Project Geologist.
2. I graduated from Carleton University, Ottawa, Ontario in 1992 and hold a B.Sc. (Honours) in geology.
3. I have been employed in my profession as an Exploration Geologist since graduation.
4. I have no interest in the property described herein, nor in the securities of any company associated with the property, nor do I have any plans to acquire any such interest.

Signed at Vancouver, British Columbia this 13 day of January, 2003.

Buschman

Aletha M. Buschman, B.Sc.(Hons)

STATEMENT OF QUALIFICATIONS

I, IAN R. CUNNINGHAM-DUNLOP, of the City of North Vancouver, Province of British Columbia do hereby certify that:

1. I am a professional geologist residing at 2537 Sechelt Drive, North Vancouver, British Columbia, V7H 1N7.
2. I am a graduate of Queen's University, Kingston, Ontario (1984) and hold a B Sc. (Eng.) degree in geological engineering.
3. I have been practicing as a geologist for over 20 years.
4. I am a member of the Association of Professional Engineers of Ontario and the Association of Professional Engineers and Geoscientists of B.C.
5. I am presently employed as a Senior Geologist by Homestake Canada Inc, a wholly owned subsidiary of Barrick Gold Corp, with offices at 951-409 Granville Street, Vancouver, B.C. V6C 1T2.
6. I am familiar with the material covered by this report having personally supervised the 2002 field program.
7. I do not have any direct or indirect interest in the Mack Property nor do I expect to receive any in return for conducting the work or preparing this report
8. Permission is granted for the use of this report, in whole or in part, for assessment and qualification requirements, but not for advertising purposes.

Signed at Vancouver, British Columbia, this 23rd day of January, 2003.

Ian Cunningham-Dunlop

Ian R. Cunningham-Dunlop, P. Eng.

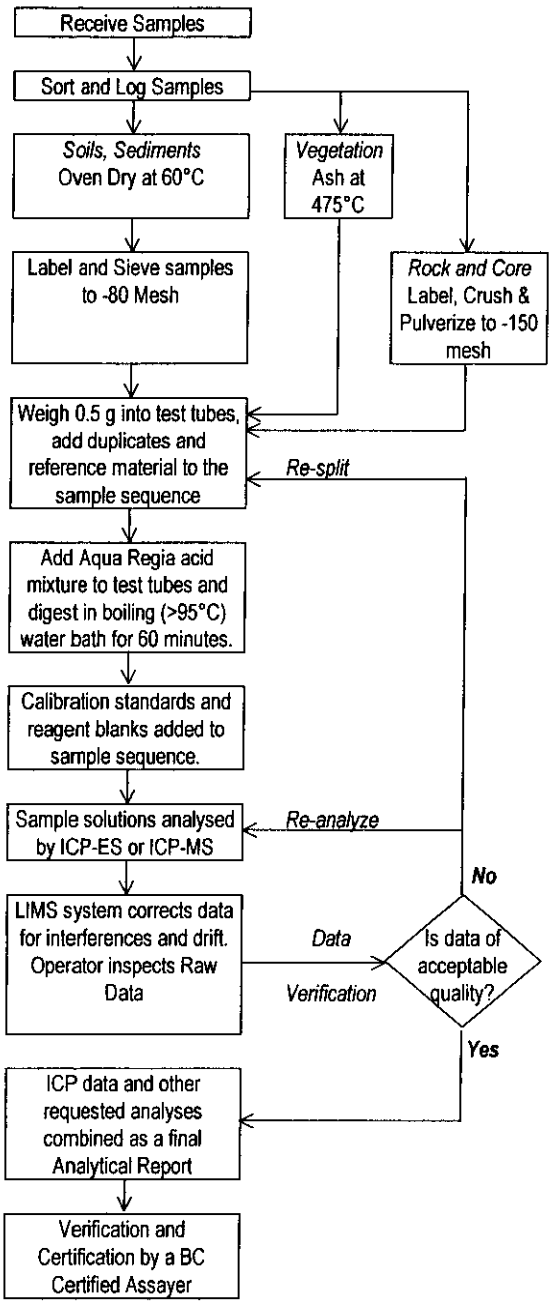
Appendix D

Assay Certificates and Analytical Process

ACME
ANALYTICAL LABORATORIES LTD. ISO 9002 REGISTERED

METHODS AND SPECIFICATIONS FOR ANALYTICAL PACKAGE
GROUP 1D & 1DX - ICP ANALYSIS – AQUA REGIA

Analytical Process



Comments

Sample Preparation

Soil or sediment is dried (60°C) and sieved to -80 mesh (-177 μm). Vegetation is dried (60°C) and pulverized or ashed (475°C). Moss-mats are dried (60°C), pounded and sieved to yield -80 mesh sediment. Rock and drill core is jaw crushed to 70% passing 10 mesh (2 mm), a 250 g aliquot is riffle split and pulverized to 95% passing 150 mesh (100 μm) in a mild-steel ring-and-puck mill. Aliquots of 0.5 g are weighed into test tubes. QA/QC protocol includes inserting two duplicates of pulp to measure analytical precision, a coarse (10 mesh) rejects duplicate to measure method precision (trench and drill core samples only) and an aliquot of in-house reference material STD DS3 to measure accuracy in each analytical batch of 34 samples.

Sample Digestion

Aqua Regia, a 2:2:2 mixture of ACS grade concentrated HCl, concentrated HNO_3 and de-mineralised H_2O, is added to each sample. Samples are digested for one hour in a hot water bath (>95°C). QA/QC protocol requires simultaneous digestion of two regent blanks randomly inserted in each batch.

Sample Analysis

Group 1D: sample solutions are aspirated into a Jarrel Ash AtomComp 800 or 975 ICP emission spectrograph to determine the following 30 elements: Ag, Al, As, Au, B, Ba, Bi, Ca, Cd, Co, Cr, Cu, Fe, K, La, Mg, Mn, Mo, Na, Ni, P, Pb, Sb, Sr, Th, Ti, U, V, W, Zn.

Group 1DX: sample solutions are aspirated into a Perkin Elmer Elan 6000 ICP mass spectrometer to determine the following 35 elements: Ag, Al, As, Au, B, Ba, Bi, Ca, Cd, Co, Cr, Cu, Fe, *Ga*, *Hg*, K, La, Mg, Mn, Mo, Na, Ni, P, Pb, *S*, Sb, *Sc*, *Tl*, Sr, Th, Ti, U, V, W, Zn.

Data Evaluation

Raw and final data undergoes a final verification by a British Columbia Certified Assayer who then signs the Analytical Report before it is released to the client. Chief Assayer is Clarence Leong, other certified assayers are Dean Toye and Jacky Wang.

852 East Hastings Street • Vancouver • British Columbia • CANADA • V6A 1R6
Telephone: (604) 253-3158 • Facsimile: (604) 253-1716 • Toll Free: 1-800-990-ACME (2263) • e-mail: info@acmelab.com

[redacted]CME[redacted] [redacted] L[redacted] ATO[redacted] LT[redacted] [redacted] E. [redacted] TIN[redacted] T. [redacted] COUV[redacted] BC [redacted] 1R6[redacted] PHONE(604)253-3158 FAX(604[redacted]53-1716
(IS 002 Accredited Co.)

WHOLE ROCK ICP ANALYSIS

Homestake Canada Inc. PROJECT ESKAY CREEK #149 File # A204200

P.O. Box 164, 951 - 409 G, Vancouver BC V6C 1T2

SAMPLE#	SiO2 %	Al2O3 %	Fe2O3 %	MgO %	CaO %	Na2O %	K2O %	TiO2 %	P2O5 %	MnO %	Cr2O3 %	Ba ppm	Ni ppm	Sr ppm	Zr ppm	Y ppm	Nb ppm	Sc ppm	LOI %	TOT/C %	TOT/S %	Th ppm	SUM %
12638	83.15	7.93	.37	.09	.82	.41	5.34	.05	.02	<.01	.008	5369	<20	111	125	57	<10	1	1.2	.18	.13	-	100.02
13701	41.43	14.54	12.46	7.63	7.60	2.79	.71	1.98	.83	.11	.035	599	148	1249	143	25	26	21	9.6	1.50	.82	2.10	99.98
13702	45.49	15.36	10.50	6.59	7.87	3.35	.83	1.97	.87	.09	.012	771	58	1146	136	25	24	21	6.8	.91	.67	3.55	99.99
STANDARD SO-17/CSB	61.60	13.77	5.91	2.36	4.71	4.21	1.46	.61	1.00	.39	.445	405	21	323	346	27	17	23	3.4	2.42	5.32	11.30	100.00

GROUP 4A - 0.200 GM SAMPLE BY LIBO2 FUSION, ANALYSIS BY ICP-ES. LOI BY LOSS ON IGNITION.
TOTAL C & S BY LECO. (NOT INCLUDED IN THE SUM)
- SAMPLE TYPE: CORE R150 60C

DATE RECEIVED: OCT 2 2002 **DATE REPORT MAILED:** Oct 17/02 **SIGNED BY** C. L........ D. TOYE, C.LEONG, J. WANG; CERTIFIED B.C. ASSAYERS

Data___ FA ___

[redacted] (604)253-3158 FAX(604[redacted]3-1716
(ISO [illegible]002 Accredited Co.)

GEOCHEMICAL ANALYSIS CERTIFICATE

Homestake Canada Inc. PROJECT ESKAY CREEK #127 File # A203882 Page 1

P.O. Box 164, 951 - 409 G, Vancouver BC V6C 1T2

SAMPLE#	Au ppb	Ag ppm	Pb ppm	Zn ppm	Cu ppm	As ppm	Hg ppm	Sb ppm	Al %	B ppm	Ba ppm	Bi ppm	Ca %	Cd ppm	Co ppm	Cr ppm	Fe %	Ga ppm	K %	La ppm	Mg %	Mn ppm	Mo ppm	Na %	Ni ppm	P %	S %	Sc ppm	Sr ppm	Th ppm	Ti %	Tl ppm	U ppm	V ppm	W ppm
SI	<.5	.1	16.8	4	2.8	1.5	<.01	.5	.01	<1	4	<.1	.09	<.1	<.1	2.2	.05	<1	.01	<1	<.01	7	.1	.446	.2	<.001	<.05	.1	2	<.1	<.001	<.1	<.1	2	.2
D 200608	<.5	.4	32.1	566	66.8	16.2	.20	2.0	1.88	1	127	.2	.99	5.5	16.8	62.4	4.34	7	.18	5	1.57	450	5.5	.064	100.1	.056	1.35	7.7	105	1.9	.002	.4	.2	57	.1
D 200609	<.5	.1	5.2	116	65.5	4.9	.21	.2	2.74	<1	211	<.1	4.65	.3	36.7	83.0	6.96	11	.02	35	3.59	1338	.4	.233	100.6	.332	.56	12.6	719	1.5	.007	<.1	.2	184	<.1
D 200610	<.5	.1	10.7	240	65.9	10.0	.30	1.2	2.52	3	225	.1	4.14	1.4	34.0	99.0	6.67	10	.19	20	3.44	1247	3.3	.153	118.3	.193	1.15	11.7	399	2.2	.013	.2	.3	146	<.1
D 200611	<.5	.2	15.6	207	59.8	15.4	.13	1.7	1.89	3	132	.2	1.28	1.3	15.5	58.7	4.30	6	.18	5	1.56	484	5.7	.050	107.4	.059	1.19	7.3	115	2.1	.003	.3	.2	50	.1
D 200612	<.5	.2	13.3	186	65.7	9.8	.14	1.5	1.75	<1	97	.2	1.16	1.2	16.2	62.1	4.14	6	.12	2	1.51	390	4.9	.042	115.9	.059	1.10	7.8	97	1.8	.002	.4	.2	43	<.1
D 200613	<.5	.2	12.7	171	58.6	8.4	.10	1.0	2.61	4	290	.2	3.09	.9	18.7	72.4	5.64	9	.23	9	2.67	924	6.2	.120	122.9	.114	1.19	11.0	261	2.1	.017	.2	.2	75	.1
D 200614	.5	.1	1.7	117	59.2	3.2	.06	.1	2.22	1	638	<.1	3.57	.2	26.8	70.3	6.62	9	.06	24	3.61	1046	.8	.279	69.3	.320	.41	11.8	441	1.4	.209	<.1	.2	191	.1
D 200615	1.1	.1	1.3	106	65.7	1.9	.04	.1	1.97	<1	246	<.1	3.35	.1	36.2	106.7	6.69	8	.06	23	3.42	1194	.6	.379	120.6	.298	.31	10.7	526	1.1	.268	<.1	.2	171	.1
D 200616	<.5	.2	13.9	159	66.1	9.3	.15	1.1	1.72	7	195	.2	1.31	.7	17.9	61.0	3.90	6	.17	4	1.47	455	5.7	.051	136.0	.057	1.34	9.0	122	1.7	.003	.3	.2	45	.1
D 200617	<.5	.2	14.2	187	57.7	10.5	.12	1.2	1.83	2	106	.2	1.60	1.0	16.0	58.9	4.74	6	.15	4	1.65	491	5.8	.040	129.2	.075	1.40	7.8	108	1.7	.002	.4	.2	45	.1
D 200618	<.5	.1	8.7	188	60.4	6.4	.06	1.1	1.97	4	290	.1	2.10	1.2	23.0	78.1	4.88	8	.15	11	2.09	627	4.0	.123	104.3	.146	.89	9.2	211	1.5	.050	.2	.2	92	.1
D 200619	<.5	.2	13.1	332	64.8	12.0	.10	2.2	1.65	4	70	.2	1.44	3.0	15.5	55.5	3.84	5	.14	3	1.32	447	6.4	.033	113.2	.054	1.27	7.1	115	1.4	.002	.5	.1	40	.1
D 200620	<.5	.3	15.7	380	65.8	18.1	.10	2.6	1.93	2	89	.2	1.39	3.2	15.5	48.8	4.23	6	.16	3	1.40	479	9.0	.032	118.6	.065	1.64	6.4	103	1.6	.002	.5	.2	41	.1
RE D 200620	<.5	.3	15.2	354	64.6	16.9	.10	2.5	1.71	1	93	.2	1.33	3.3	14.2	47.0	4.16	6	.15	3	1.40	465	8.2	.035	116.0	.069	1.60	6.5	98	1.5	.002	.5	.2	42	.1
RRE D 200620	<.5	.3	16.8	386	69.2	19.6	.12	2.6	1.88	4	103	.2	1.35	3.7	15.6	52.0	4.67	7	.19	4	1.47	484	9.8	.038	121.9	.069	1.73	6.9	111	1.7	.002	.5	.2	49	.1
D 200621	.8	.1	1.4	130	66.6	5.2	.02	.1	2.03	1	143	.1	4.71	.7	29.5	101.1	6.45	8	.07	21	3.28	1286	1.0	.292	81.4	.320	.50	9.8	422	1.1	.239	.1	.2	166	.1
D 200622	<.5	.5	18.3	632	83.0	16.5	.11	2.8	2.22	5	152	.2	1.35	6.4	20.8	60.3	5.04	9	.20	14	1.71	543	6.5	.057	119.1	.098	1.49	6.8	121	2.4	.004	.4	.2	82	.1
D 200623	<.5	.3	16.5	334	73.0	8.7	.07	1.5	2.45	3	229	.3	.38	1.7	17.6	74.6	4.08	8	.65	15	1.52	311	6.9	.079	121.8	.070	1.05	6.4	90	2.6	.022	.7	.2	75	.2
D 200624	<.5	.1	1.0	107	57.4	<.5	.05	.1	1.90	4	80	<.1	4.71	.2	27.1	84.5	6.15	8	.07	20	2.66	1121	.8	.328	66.7	.331	.39	9.8	448	1.1	.252	.1	.2	161	.1
D 200625	<.5	.2	13.5	252	72.7	9.2	.03	1.7	2.11	7	126	.3	1.77	1.5	16.3	56.1	3.49	7	.31	12	1.44	413	7.6	.056	108.0	.063	1.08	4.9	253	2.0	.012	.4	.2	63	.4
D 200626	.5	<.1	1.4	104	51.7	1.1	.05	.2	2.39	3	98	<.1	4.21	.1	28.0	64.7	6.41	10	.09	20	3.13	1047	1.3	.332	56.8	.323	.62	10.5	428	1.0	.163	.1	.1	179	.1
D 200627	<.5	.3	15.8	355	73.4	14.3	.06	2.5	2.47	8	110	.2	.37	2.3	17.2	72.4	4.80	9	.26	13	1.79	362	7.4	.057	117.4	.069	1.49	6.3	73	2.6	.007	.3	.2	69	.2
D 200628	<.5	.1	2.1	120	57.9	1.5	.04	.2	2.43	2	100	<.1	3.54	.4	27.9	41.4	6.83	11	.10	20	3.20	1153	1.3	.214	36.7	.352	.69	12.8	316	1.1	.097	.1	.2	210	.1
D 200629	<.5	.2	12.1	269	74.3	7.9	.04	1.9	2.58	5	160	.2	.82	1.7	19.3	84.1	5.35	9	.35	15	1.90	558	6.1	.096	121.5	.108	1.41	7.8	118	2.6	.018	.3	.3	81	.2
D 200630	<.5	.2	14.4	277	73.2	11.5	.05	1.9	2.46	5	80	.2	.37	2.1	18.3	76.3	4.93	8	.16	13	1.84	385	6.5	.046	127.4	.091	1.33	5.8	74	2.7	.003	.2	.2	63	.1
D 200631	<.5	.3	16.3	406	72.6	14.9	.06	2.6	1.96	5	93	.3	.51	3.1	16.6	51.0	4.23	7	.19	11	1.34	334	8.0	.046	112.8	.058	1.45	5.5	79	2.5	.003	.4	.2	54	.2
D 200632	.5	.2	6.2	337	62.2	3.2	.05	.7	2.11	4	168	.1	2.31	2.5	23.1	60.4	5.24	9	.28	16	2.30	791	2.6	.219	73.2	.210	.60	8.7	246	1.6	.111	.3	.2	142	.1
D 200633	<.5	.4	13.0	594	63.3	11.7	.04	2.5	2.84	4	96	.2	1.35	6.9	16.9	54.5	5.97	9	.18	10	2.23	562	8.2	.074	90.3	.105	1.23	10.5	135	1.8	.004	.4	.2	99	<.1
D 200634	.5	.1	14.4	156	57.3	8.1	.11	1.0	1.86	6	368	.2	1.99	1.0	18.6	51.6	4.21	7	.23	7	1.36	558	4.3	.061	113.2	.078	.92	5.9	210	1.9	.004	.2	.2	55	.2
D 200635	<.5	.1	2.9	110	56.5	2.1	.04	.1	2.87	3	753	<.1	4.27	.2	33.6	79.9	7.20	12	.05	27	4.31	1048	.6	.172	87.0	.353	.43	14.3	373	1.8	.026	<.1	.5	193	<.1
D 200636	<.5	.1	13.9	223	58.4	8.4	.10	.9	2.41	7	222	.2	3.01	1.7	19.1	52.5	4.80	8	.20	10	1.87	663	4.1	.084	84.4	.117	.97	6.6	295	1.8	.003	.2	.2	72	.2
D 200637	<.5	.2	20.2	191	68.3	11.9	.09	1.8	2.11	14	186	.3	1.49	1.3	17.2	38.8	4.70	8	.27	11	1.37	474	4.9	.072	80.4	.076	1.39	4.9	186	2.8	.004	.2	.3	52	.6
D 200638	<.5	.2	19.3	194	50.1	2.2	.06	.2	2.90	7	1259	.1	7.36	1.5	27.3	65.4	6.60	12	.15	26	3.06	1939	2.0	.192	39.4	.333	.56	8.3	592	1.3	.011	.1	.3	174	.2
D 200639	<.5	.2	14.7	225	53.1	2.4	.06	.2	2.80	3	282	.1	6.17	1.3	25.4	59.3	6.23	13	.16	25	3.02	1675	1.4	.193	46.0	.312	.54	7.8	467	1.2	.013	.1	.3	175	.1
STANDARD DS4	24.1	.3	33.0	159	135.0	24.0	.28	4.6	1.73	3	145	5.0	.57	5.5	12.0	162.3	3.19	6	.17	17	.64	750	6.9	.034	36.2	.094	.07	3.9	27	3.5	.090	1.3	6.5	82	4.0

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 R150 60C <u>Samples beginning 'RE' are Reruns and 'RRE' are Reject Reruns.</u>

DATE RECEIVED: SEP 18 2002 **DATE REPORT MAILED:** Sept 23/02 **SIGNED BY** ....D. TOYE, C.LEONG, J. WANG; CERTIFIED B.C. ASSAYERS

Data FA

ACME ANALYTICAL

Homestake Canada Inc. PROJECT ESKAY CREEK #127 FILE # A203882

ACME ANALYTICAL

SAMPLE#	Au ppb	Ag ppm	Pb ppm	Zn ppm	Cu ppm	As ppm	Hg ppm	Sb ppm	Al %	B ppm	Ba ppm	Bi ppm	Ca %	Cd ppm	Co ppm	Cr ppm	Fe %	Ga ppm	K %	La ppm	Mg %	Mn ppm	Mo ppm	Na %	Ni ppm	P %	S %	Sc ppm	Sr ppm	Th ppm	Ti %	Tl ppm	U ppm	V ppm	W ppm
D 200640	<.5	.6	15.1	707	59.0	16.8	.11	3.7	1.75	1	91	.2	.89	10.3	11.5	49.8	4.15	6	.15	9	1.12	426	9.7	.039	95.6	.045	1.41	4.9	79	1.7	.002	.3	.2	71	.3
D 200641	<.5	.2	10.6	260	56.6	16.2	.08	2.2	1.14	3	100	.1	8.95	3.3	9.7	18.6	4.04	4	.12	7	1.78	1972	8.2	.035	37.2	.135	1.27	5.2	855	.9	.002	.3	.2	49	1.1
D 200642	<.5	.2	8.1	176	79.9	11.5	.04	.4	2.38	1	231	.2	7.36	3.5	27.4	57.6	6.25	10	.08	24	3.28	1626	1.6	.122	49.7	.297	1.04	8.7	903	1.5	.020	<.1	.3	150	.1
D 200643	<.5	.1	2.9	129	53.7	8.5	.04	.2	2.79	2	395	.1	4.39	.5	29.3	54.7	7.52	13	.05	27	3.86	1346	.8	.174	32.8	.361	.47	9.3	327	1.4	.041	<.1	.3	222	.1
D 200644	<.5	.3	23.7	334	69.3	14.4	.11	2.4	1.59	5	142	.3	1.18	3.3	13.5	32.8	3.70	6	.20	17	1.07	444	6.9	.046	66.2	.066	1.40	4.6	125	4.6	.003	.3	.6	46	.6
STANDARD DS4	28.8	.3	33.0	157	137.7	24.3	.30	4.9	1.70	1	145	4.7	.59	5.5	11.0	175.4	3.31	6	.16	17	.63	760	6.9	.033	35.0	.089	.09	3.8	26	3.7	.084	1.2	5.9	78	3.6

Sample type: CORE R150 60C.

Data FA

[redacted]CME[redacted]T[redacted] LA[redacted]ATO[redacted] LT[redacted] [redacted]E.[redacted]TIN[redacted]T.[redacted]OUV... 3C [redacted] 1R[redacted] PHONE(60[redacted]253-[redacted] FAX(604[redacted]-1716
(IS[redacted]002 Accredited Co.)

GEOCHEMICAL ANALYSIS CERTIFICATE

Homestake Canada Inc. PROJECT ESKAY CREEK #132 File # A203907

P.O. Box 164, 951 - 409 G, Vancouver BC V6C 1T2

SAMPLE#	Au ppb	Ag ppm	Pb ppm	Zn ppm	Cu ppm	As ppm	Hg ppm	Sb ppm	Al %	B ppm	Ba ppm	Bi ppm	Ca %	Cd ppm	Co ppm	Cr ppm	Fe %	Ga ppm
SI	<.5	<.1	.8	9	.5	1.4	<.01	.5	.01	<1	4	<.1	.11	<.1	<.1	2.4	.05	<1
D 200645	<.5	.2	16.7	367	49.3	9.1	.07	1.6	1.79	1	106	.3	2.26	3.4	10.7	34.8	3.49	6
D 200646	<.5	.1	4.1	119	49.6	5.9	.02	.2	2.83	<1	170	.1	3.26	.4	28.3	53.9	6.36	13
D 200647	<.5	.1	8.1	152	21.3	4.3	.03	.6	1.49	1	134	.2	.93	1.3	5.8	12.5	2.13	4
D 200648	<.5	.1	10.0	138	21.3	5.5	.03	.8	1.34	<1	173	.2	1.70	1.3	5.9	16.6	2.18	4
D 200649	<.5	.1	.8	123	52.9	4.9	.04	.1	2.24	<1	126	<.1	4.37	.4	31.0	54.8	6.24	9
D 200650	.7	<.1	.8	101	40.2	3.8	.03	.1	2.08	<1	497	<.1	4.02	.4	24.0	40.1	5.58	8
D 200651	<.5	.1	2.4	122	53.0	9.5	.08	.1	2.49	<1	296	.1	3.79	.4	33.6	53.6	6.62	10
D 200652	<.5	.1	10.5	164	46.9	9.6	.07	.8	2.19	2	173	.2	2.37	1.1	17.9	39.4	4.86	7
RE D 200652	<.5	.1	10.4	162	44.3	10.0	.07	.8	2.14	4	161	.2	2.28	1.1	17.0	38.5	4.95	7
RRE D 200652	<.5	.1	10.6	175	47.3	10.1	.06	.8	2.22	1	164	.2	2.16	1.2	18.6	41.8	5.12	8
D 200653	<.5	.1	8.1	123	46.3	10.0	.05	.6	2.33	3	240	.1	3.40	.4	21.3	39.0	5.15	9
D 200654	<.5	.1	6.5	110	19.5	3.7	.03	.3	2.17	2	121	.1	1.48	.6	6.3	9.7	3.71	6
STANDARD DS4	26.0	.3	30.6	160	121.3	26.0	.28	4.7	1.80	<1	138	4.9	.53	5.4	11.1	162.9	3.16	6

SAMPLE#	K %	La ppm	Mg %	Mn ppm	Mo ppm	Na %	Ni ppm	P %	S %	Sc ppm	Sr ppm	Th ppm	Ti %	Tl ppm	U ppm	V ppm	W ppm
SI	.01	<1	<.01	2	.3	.531	.1	<.001	<.05	.1	2	<.1	<.001	<.1	<.1	1	.4
D 200645	.17	9	1.07	494	5.1	.045	52.8	.060	.93	4.1	247	3.3	.002	.2	.5	41	1.8
D 200646	.08	25	3.24	982	1.2	.205	43.1	.318	.40	8.0	361	2.1	.007	<.1	.5	183	.1
D 200647	.23	14	.76	259	4.5	.045	22.5	.097	.29	3.9	91	2.6	.001	.2	.3	17	.6
D 200648	.20	9	.75	347	5.3	.044	23.6	.054	.48	3.2	117	1.3	.001	.1	.1	17	1.2
D 200649	.05	18	3.37	1341	1.0	.186	74.9	.312	.33	10.4	330	1.0	.122	<.1	.2	178	.2
D 200650	.14	17	2.66	1057	1.3	.224	41.5	.249	.23	8.9	324	1.0	.160	.1	.1	138	.2
D 200651	.08	22	3.39	1178	1.1	.180	58.0	.291	.46	10.4	287	1.4	.094	.1	.2	192	.3
D 200652	.13	13	1.91	667	2.9	.071	49.2	.142	.69	8.1	168	2.1	.012	.2	.3	95	.1
RE D 200652	.12	12	1.94	675	3.0	.073	47.6	.137	.64	8.4	161	2.1	.012	.2	.3	90	.1
RRE D 200652	.17	12	1.83	697	3.0	.072	50.5	.136	.67	8.2	165	2.1	.012	.2	.3	89	.2
D 200653	.16	22	2.27	833	1.9	.132	44.0	.216	.54	7.9	242	2.3	.017	.1	.4	128	.1
D 200654	.18	12	1.22	444	4.4	.041	17.2	.124	.18	4.3	147	2.4	.001	.2	.2	28	.1
STANDARD DS4	.16	16	.61	744	6.5	.031	34.2	.086	<.05	3.8	26	3.8	.087	1.1	6.3	77	3.6

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 R150 60C Samples beginning 'RE' are Reruns and 'RRE' are Reject Reruns.

DATE RECEIVED: SEP 19 2002 **DATE REPORT MAILED:** Sept 24/02 **SIGNED BY**.......... D. TOYE, C.LEONG, J. WANG; CERTIFIED B.C. ASSAYERS

Data ___ FA ___