GEOLOGICAL and

DIAMOND DRILLING REPORT

on the

APPLE BAY PROJECT
(Hushamu & High Silica Zones)
(PEM100 CHALKY GEYSERITE QUARRY)
Mining Lease Lot 2323 and
Apple Bay One to Seven Claims (108 Units)

Holberg Inlet Area, Wanokana Creek,
Vancouver Island

Longitude 127°14'/Latitude 50°37'
NTS 92L/12E + W
Nanaimo M.D.

Owned by
HOMEGOLD RESOURCES LTD.
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Consulting Geologist
Quarry Supervisor #98-3550

March 15, 2002

26,881

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ILLUSTRATIONS

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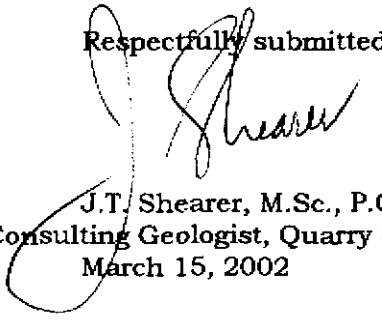
1.0 SUMMARY

1. Acquisition and a preliminary evaluation of the PEM100 Chalky Geyserite Quarry was undertaken between October 1999 and August 2000 for Homegold Resources Ltd and Lehigh Northwest Cement. The alumina and silica resource at PEM100 a source for the raw material requirements of the cement plant operated by Lehigh Northwest Cement Ltd. in Delta, British Columbia.
2. A 25-35 metre thick Lower Jurassic sequence of intensely silicified and clay altered rhyolite flows and pyroclastic units of the Bonanza Group outcrop along a northwest trend for more than 1200 metres from the PEM100 Quarry towards the Pemberton Hills.
3. The area is covered by the Apple Bay One to Seven and Mining Lease Lot 2323 totalling approximately 2500 hectares. The PEM100 geyserite quarry is located. Mining Lease, Lot 2323. The proposed quarry currently covers about 8 hectares. There are 9 other geyserite zones known on the property.
4. Total estimated tonnage produced from the Western Forest Products quarry is approximately 250,000 tons between the late 1970's to present. This quarry has most recently produced coarse stone for road construction.
5. The general geyserite section in the quarry area consists of an upper 20-35 metre thick rhyolite member exhibiting both flow banded and coarse pyroclastic units that have been intensely silicified and clay altered (silica and alumina). This sequence has then undergone intense acid sulphate and advanced argillic alteration. The upper sequence is underlain by a less altered lower sequence of pyritic rhyolitic tuff.
6. Two main sub areas of chalky geyserite have been outlined by drilling to date on the PEM100 zone. Area A covers a 60,000m^2 area around the PEM100 quarry. This 27.8m thick zone contains a rough resource of about 4 million tonnes of geyserite grading approximately 83.66% SiO_2, 12.49% Al_2O_3 and 0.09% SO_3. Area B is located approximately 150 metres northwest of Area A and it covers a 20,000m^2 area in a saddle between to Wann Knobs. The 21.34m thick Area B zone contains a rough resource of about 1.00 million tonnes of material grading approximately 81.84% SiO_2, 14.33% Al_2O_3 and 0.05% SO_3. The total rough resource and average grade of both Area A and B is 5 million tonnes grading 83.26% SiO_2, 12.90% Al_2O_3 and 0.08% SO_3.
7. The present program consisted of 6 diamond drillholes on the Hushamu Zone totalling 968' (295.05m) and 7 diamond drillholes on the PEM100 High Silica Zone totalling 897' (273.4m) plus deepening hole APBY-99-09 and hole APBY-01-33 on the Chalky Geyserite Zone (265').
8. The Hushamu shale-sandstone unit contains too much sulfur. The sulfur values in the high grade silica zone decreases from west to east.

Respectfully submitted,



J.T. Shearer, M.Sc., P.Geo.
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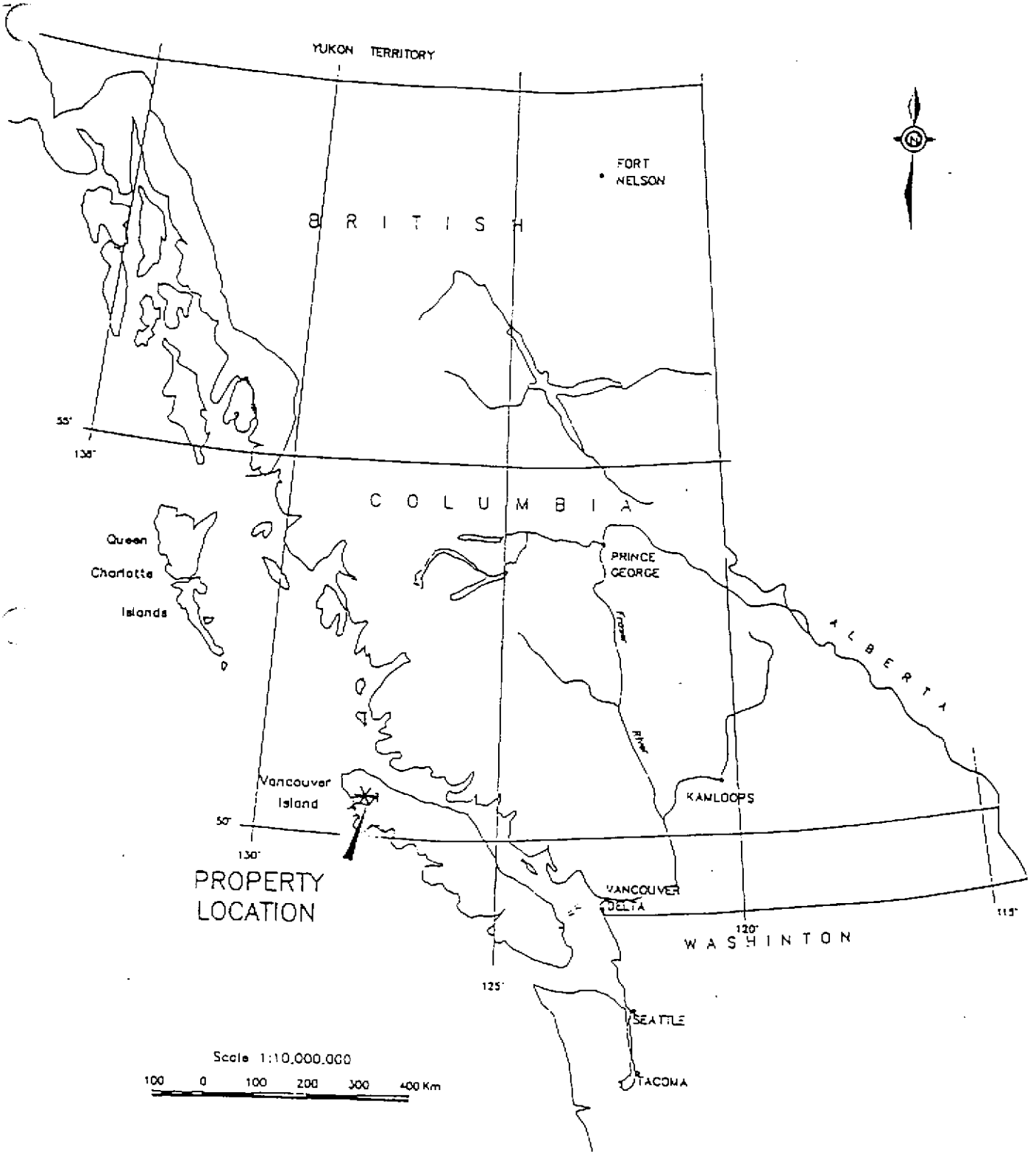
March 15, 2002



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APPLE BAY PROJECT

LOCATION MAP

SCALE as shown	DATE Aug. 00	N.T.S. 92L/12E	WORK BY J. T. Shearer	FIGURE 1

2.0 INTRODUCTION

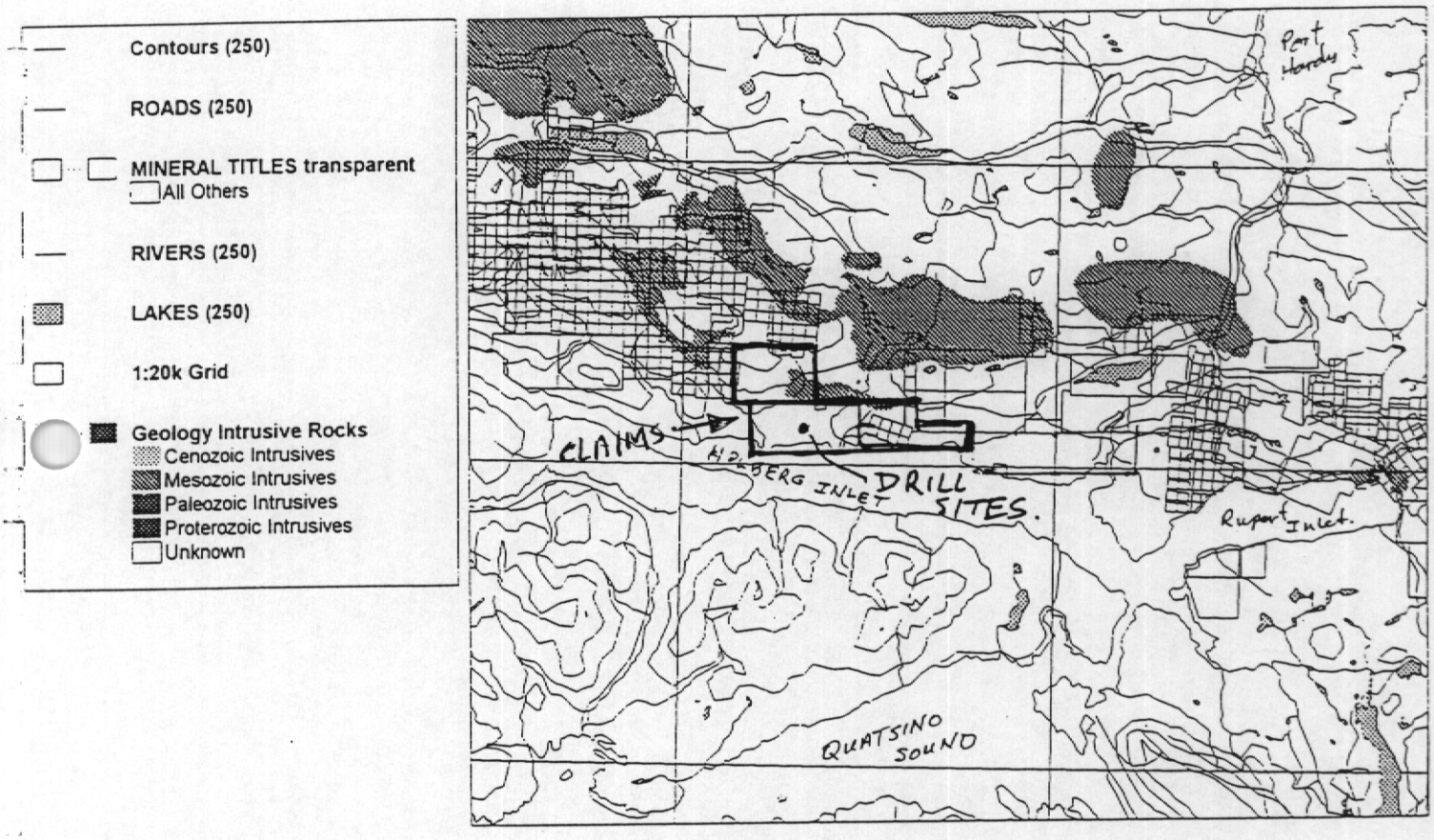
The Apple Bay One to Seven mineral claims and Mining Lease Lot 2323 cover readily accessible silica and alumina resources within the PEM100 Quarry and 9 other altered zones to the northwest towards the Pemberton Hills. The general geyserite section within the quarry and adjacent areas consists of an approximately 20-35 metre thick Lower Jurassic intensely silicified and clay altered rhyolite unit (flow banded and pyroclastic) above a lower less altered rhyolitic breccia. Drilling in 1999 and 2000 and surface assays indicate that 2 sub areas (Area A and B) contain a rough resource of about 5 million tonnes of material grading an average of 83.26% SiO_2, 12.90% Al_2O_3 and 0.08% SO_3. A third area (Area C) lies between Areas A and B and may contain a rough resource of an additional 4 million tonnes of silica-rich geyserite but more detailed drilling is required to determine total tonnage and grades.

Throughout the property a further 9 geyserite zones have been identified by geological mapping. A 5000 tonne bulk sample was shipped in 1968 by Lafarge Inc. from a geyserite deposit in central Apple Bay, which is now covered by the Apple Bay One Mineral Claim. The PEM100 Quarry is approximately 12 kilometres west of the village of Coal Harbour and is not directly drained by major streams. The company is committed to develop the deposit in a manner that does not cause significant environmental impact during operation or after mine closure.

A total of 627.29m of diamond drilling was completed in November and December 1999 and March 2000 in 24 holes. Two bulk samples were extracted from the PEM100 Quarry during 2000. A 5400 tonne sample was taken in April 2000. This sample was trucked to Port Hardy and then barged to Tilbury's Cement Plant in Delta B.C. for testing. A second 4000 tonne bulk sample was taken in July 2000. This sample was trucked to Port Hardy and stored for later shipment to the Tilbury Cement Plant in Delta, B.C.

This report documents the results of a follow-up diamond drill work program in 2001: (A) the high silica portion of the zone (between holes 99-07 and 99-10 and 99-16 and 99-17) and (B) 6 holes testing the shale-sandstone stratigraphy at the Hushamu log dump.

Homegold Resources Ltd Apple Bay Kaolinite/Silica



SCALE 1 : 276,468

2 0 2 4 6

MILES

N

http://webmap.ei.gov.bc.ca/minpot/map/dep_find.mwf

HOMEGOLD RESOURCES LTD.				
APPLE BAY PROJECT				
CLAIM MAP 1:50,000				
SCALE as shown	DATE Aug. 00	N.T.S. 92L/12E	WORK BY J. T. Shearer	FIGURE 4

3.0 LOCATION and ACCESS

The Apple Bay One to Seven mineral claims and Mining Lease Lot 2323 are situated on rolling terrain with elevations ranging between 0m and 210m. The PEM100 Quarry is at an elevation of approximately 115m. The three Wann Knobs at the PEM100 quarry area gradually rise to the west into the Pemberton Hills over a distance of 6 to 8 km.

Most of the claims are covered by second growth forest, some of which has been thinned. Some of the claims have been logged recently. Most of the logging occurred in 1988. Minor logging was done from the shore in the 1920's.

Access to the claims is gained by travelling south for 16 km from Port Hardy along a paved road to Coal Harbour. From Coal Harbour travel west for 12 km along the Wanokana Mainline logging road to the Pemberton Mainline logging road and travel 1km north along the Pemberton mainline and turn off onto the P100 branch road.

4.0 CLAIM STATUS

The principal area of interest is covered by the Apple Bay One to Seven Mineral Claims and Mining Lease staked under the two-post and Modified Grid Systems and registered in the name of J.T. Shearer and R. W. Howich.

TABLE I

List of Claims

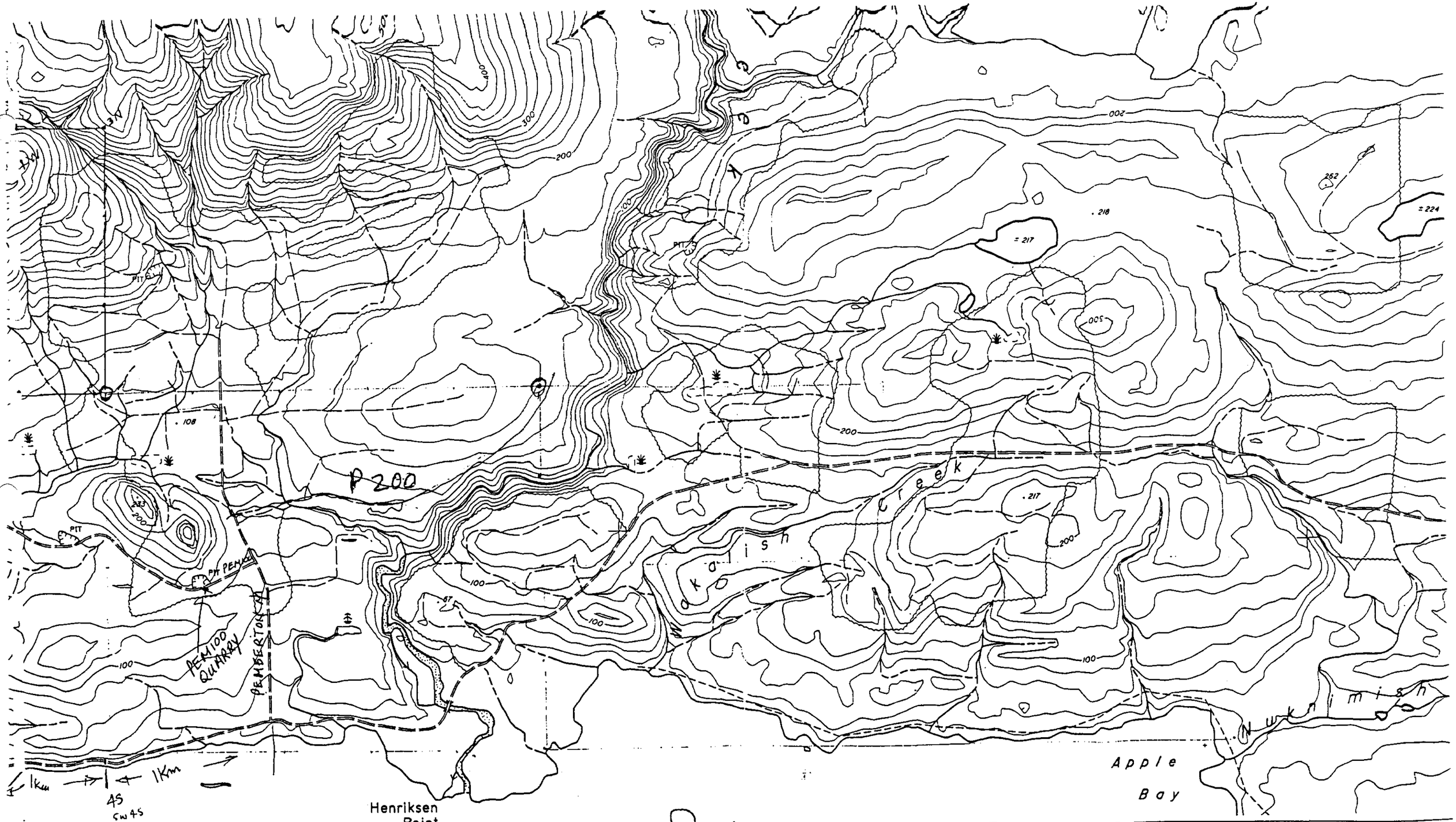
Claim Name	Tenure #	Size	Units	Date Located	* Current Anniversary Date	Owner
Apple Bay One	371775	8E2N	16	Sept. 16, 1999	Sept. 16, 2005	J. T. Shearer
Apple Bay Two	377240	5E4N	20	May 17, 2000	Sept. 16, 2005	J. T. Shearer
Apple Bay Three	371777	4E2N	8	Sept. 18, 2000	Sept. 16, 2005	J. T. Shearer
Apple Bay Four	374744	4N4W	16	March 11, 2000	Sept. 16, 2005	J. T. Shearer
Apple Bay Five	373854	3N4E	12	Dec. 5, 1999	Sept. 16, 2005	J. T. Shearer
Apple Bay Six	374738	4N5W	20	March 9, 2000	Sept. 16, 2005	J. T. Shearer
Apple Bay Seven	374739	4N4E	16	March 9, 2000	Sept. 16, 2005	J. T. Shearer
Mining Lease Lot 2323	379922		4 approx		Surface Tax Payable	R. W. Howich

Total 108 units

* with application of Assessment work documented in this report.

Mineral title is acquired in British Columbia via the Mineral Act and regulations, which require approved assessment work to be filed each year in the amount of $100 per unit per year for the first three years and then $200 per unit per year thereafter to keep the claim in good standing.

Under the present status of mineral claims in British Columbia, the consideration of industrial minerals requires careful designation of the products end use. An industrial mineral is a rock or naturally occurring substance that can be mined and processed for its unique qualities and used for industrial purposes (as defined in the *Mineral Tenure Act*). It does not include "Quarry Resources". Quarry Resources includes earth, soil, marl, peat, sand and gravel, and rock, rip-rap and stone products that are used for construction purposes (as defined in the *Land Act*). Construction means the use of rock or other natural substances for roads, buildings, berms, breakwaters, runways, rip-rap and fills and includes crushed rock. Dimension stone means any rock or stone product that is cut or split on two or more sides, but does not include crushed rock.



Area District:	SCALE 1:20 000	Contours genera
Land Title Dist.:	200 0 200 400 600 800 1000 1200 1400	Contour interval
Crest Plan No. Date:	METRES	Elevations in me

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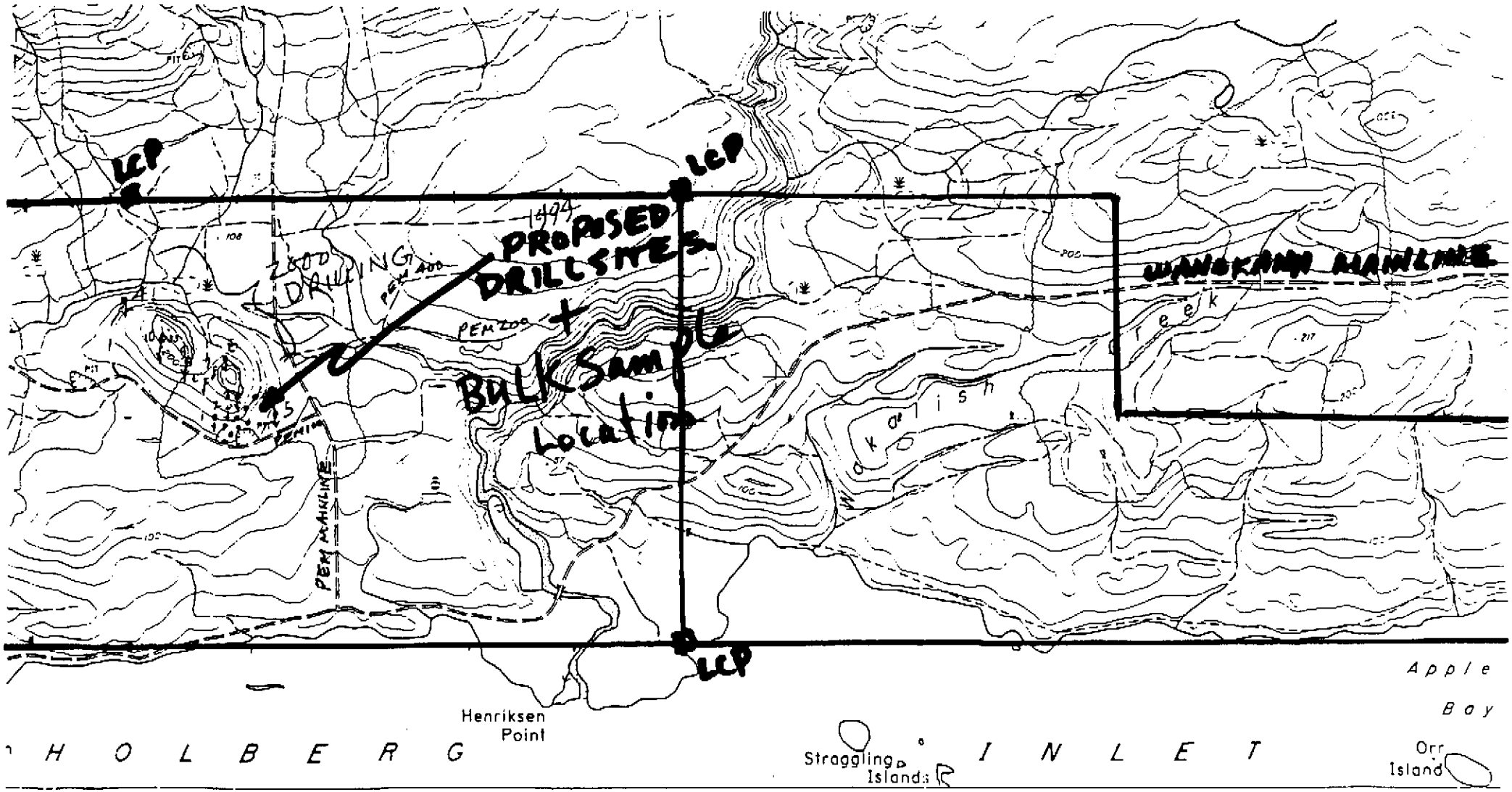
APPLE BAY PROJECT

26881 TRIM MAP 1:20,000 a

SCALE as shown	DATE Aug. 00	N.T.S. 92L/12E	WORK BY J. T. Shearer	FIGURE 3



SCALE 1:20 000

200 0 200 400 600 800 1000

METRES

HOMEGOLD RESOURCES LTD.

APPLE BAY PROJECT

TRIM MAP

1:20,000

SCALE as shown	DATE Aug. 00	N.T.S. 92L/12E	WORK BY J. T. Shearer	FIGURE 3

5.0 GEOLOGY

The terrane upon which the rocks of northern Vancouver Island were laid down is probably of Middle to Upper Paleozoic Age (although these "basement" rocks are not exposed north of Buttle Lake). At the time of deposition, the landmass, which now makes up Vancouver Island, was located in the equatorial regions of the Pacific Ocean. It consisted of felsic to basic volcanics deposited in a submarine environment. The very important copper-zinc-gold-silver ore bodies at Western Mines' Buttle Lake operations were developed within this sequence.

In Upper Triassic time (about 200 million years ago), these basement rocks were covered by a series of pillow lavas and flows largely of basaltic composition. Total thicknesses extruded probably exceed 2400 metres. These rocks are known today as the Karmutsen Formation.

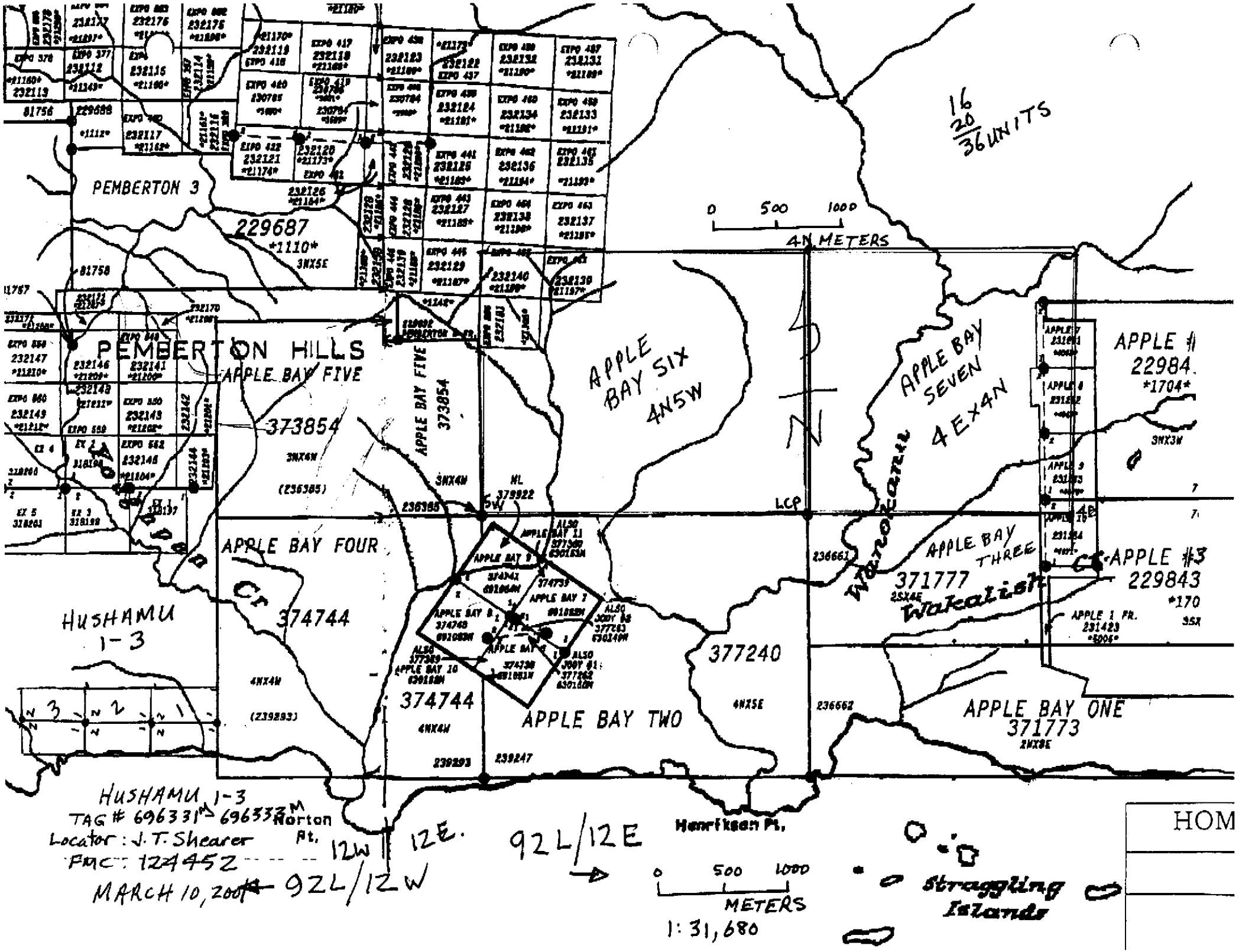
Following this period of basaltic volcanism, carbonate rocks (the Quatsino Limestone) accumulated to thicknesses of about 300 metres, although a much thinner section appears to be the rule north of Holberg Inlet. Of importance from an economic standpoint is the correlation between the Karmutsen – Quatsino section of Vancouver Island and the Nikolai Greenstone – Chitistone Limestone section of southeastern Alaska, both of which are part of the same Central Pacific terrane. The Nikolai, like the Karmutsen, is considerably enriched in copper as compared with the average basalt. The Chitistone Limestone was host to the very high-grade Kennecott Copper deposit, which was apparently derived by re-concentration of the much lower-grade copper disseminated through large volumes of Nikolai rock.

Above the Quatsino there is generally found a clastic section of which appears to be of slightly different age and of varying composition in different parts of northern Vancouver Island. Depending on age, composition and location, it is known as the Parson Bay Formation or the Harbledown Formation. The Parson Bay is somewhat calcareous and of upper-most Triassic age while the Harbledown is more argillitic and of lower-most Jurassic age. Above the sedimentary section are the Jurassic Bonanza Volcanics, an assemblage of flows, tuffs and fragmentals largely of andesitic composition, but with minor basaltic and rhyodacitic sections.

During and after eruption of the Bonanza Volcanics, granitic bodies were emplaced within the Karmutsen-Quatsino-Bonanza sequence. These bodies ranged in size from dykes and small plugs to masses of batholithic proportions. Some of these intrusives formed the underground reservoirs, which broke through to surface to deposit the Bonanza Volcanics.

Reaction between these very hot, high-level vent zones and circulating groundwater and seawater led to the development of numerous zones of highly altered rock, within or adjacent to which are copper-gold-molybdenum deposits. The alteration zones are generally characterized by the presence of large amounts of silica, clay minerals, pyrite, pyrophyllite and laumontite. Of the various alteration zones, perhaps 90% are located in the belt immediately north of Rupert and Holberg Inlets particularly in the vicinity of the PEM100 Quarry and Pemberton Hills, which are covered by the Apple Bay and Jody Claims.

At some time during the latter part of the Jurassic, following a long period of northward drift, the Vancouver Island – Queen Charlotte Islands – Southeast Alaska terrane, apparently somewhat fragmented, collided with and fused to the North American



HUSHAMU 1-3
TAG # 696331 - 696332
Locator: J.T. Shearer
PMC: 122452
MARCH 10, 2004

92L/12W

12W | 12E.

92L/12E

HOM

Continent. Following this accretion, and a general elevation of the landscape probably caused related to the mechanics of collision, highland portions of the terrane were eroded into basinal areas, forming continental transgressive sandstones of Cretaceous age of which the Hushamu Sediments are an example and also included numerous coal measures, those of the Nanaimo basin being most notable. One of the small basins of sandstone extends from the western edge of the Island Copper Mill area to the vicinity of Apple Bay, which lies to the east of the claims. Since the deposition of these various sandstones, there has been minor volcanic and intrusive activity on the island.

Comprehensive geological mapping of Northern Vancouver Island was carried out during the late 1960's, the bulk of it by Dr. Jan Muller of the Geological Survey of Canada with major assistance by Dr. Kenneth Northcote of the B.C. Department of Mines. The results of their mapping are summarized on G.S.C. Map 1552A. More recently, mapping was carried out on map sheets NTS 97L/12 and 92L/11W by Hammock, J. L. et. al in the 1990's. The results of this work, which was produced by the Geological Survey Branch of the British Columbia government.

6.0 PROPERTY GEOLOGY

6.1 Geology

Geological mapping and diamond drilling on the Apple Bay Project indicates that the area extending northwest from the PEM100 Quarry to and including the Pemberton Hills is underlain by a series of large-scale extrusive rhyolite dome. These rhyolite domes are made up of both flow banded and coarse pyroclastic units containing differing Al_2O_3 contents. These units form steep bluffy knobs on the property and blocky talus fans occur at the base of the bluffs.

The introduction of intrusive granitic rocks into the Bonanza Volcanics created high level vent zones, which along with heated ground water, strongly altered the rhyolitic rocks with the introduction of silica and clay minerals. Late stage intense acid sulphide and advanced argillic alteration occurred throughout the entire system.

Geological mapping and drill core logging indicate that an intensely altered 20-35 metres thick section of rhyolite (identified as white chalky geyserite) overlies a unit of less altered rhyolitic breccia. the white chalky geyserite is of primary economic interest because of its silica and alumina content. The white chalky geyserite is made up of interbedded units of flow banded rhyolite and coarse pyroclastic (fragmented) rocks. These units are described below:

1) Flow Banded White Chalky Geyserite
   - Fine-grained matrix with weak to pronounced flow banding.
   - some flow folding is present as shown by convoluted bands.
   - flow banding often exhibits welded texture.
   - limonite staining is common and flow banded sections often appears to contain more kaolinite alteration than the more siliceous fragmented units.
   - occasionally flow top brecciation is observed.

2) Fragmental White Chalky Geyserite (Breccia)
   - often intensely silicified matrix with chalky clay (argillic) altered fragments.
   - More strongly silicified fragment appears to be found near flow-bonded units. Some fragments appear to be partially digested.
   - fragments can be >10 cm in diameter and can vary from rounded to angular in shape.
   - fragments sometimes appear to be flattened into elongated shapes.

The fragmented rhyolitic (breccia) that underlies the white chalky geyserite is described below:

1) Less Altered Fragmented Rhyolite
   - unit is medium green coloured.
   - fragments are fine grained, closely packed in a dark grey matrix
   - minor fine-grained pyrite along fractures possibly associated with some yellowish alunite alteration.
   - some fragments are kaolinized but are not bleached out.

6.2 Geyserite Resource

Diamond drilling identified two areas that contained sufficient tonnage and grade projection to warrant a statistical analysis of reserves. This work is documented in

Section and Plan maps and data tables prepared using computer smoothing techniques by Nilsson (2000). A summary of the geyserite resources is approximated by rough manual method as outlined below:

Area A (Surrounding PEM100 Quarry)
Drill holes 1 - 6, 9, 13 and 19 used
The thicknesses of chalky geyserite in each hole were averaged to produce a minimum thickness of 25.06m.

Area B (150m NW of Area A)
Drill holes 15 and 17 used
The thicknesses of geyserite in each hole was averaged to produce a minimum thickness of 21.34m.

Using a specific gravity of 2.6 tonnes per cubic metre for chalky geyserite, the rough geological resource of chalky geyserite is estimated to be:

Area A 60,000 m^2 x 25.06m thickness x 2.6 tonne/m^3
= about 4 million tonnes grading 83.66% SiO_2, 12.49% Al_2O_3 and 0.09% SO_3

Area B 20,000 m^2 x 21.34m thickness x 2.6 tonne/m^3
= about 1 million tonnes grading 81.89% SiO_2, 14.33% Al_2O_3 and 0.05% SO_3

The total Chalky Geyserite geological resource is about:
5 million tonnes grading 83.26% SiO_2, 12.90% Al_2O_3 and 0.08% SO_3

The 150+ metre wide area between Area A and B was evaluated by the 7 drillholes documented in this report and this area is identified as Area C. Area C has the potential to contribute an additional 4.3 million tonnes to the "geyserite (high silica) resource.

A total of 24 diamond drillholes were previously completed on the property between late 1999 and March 2000. The other 9 geyserite zones have not been drilled to date. Preliminary surface sampling suggests that the other zones have similar distribution of primary rock chemistry.

A typical sample of Chalky geyserite has the following trace elements:

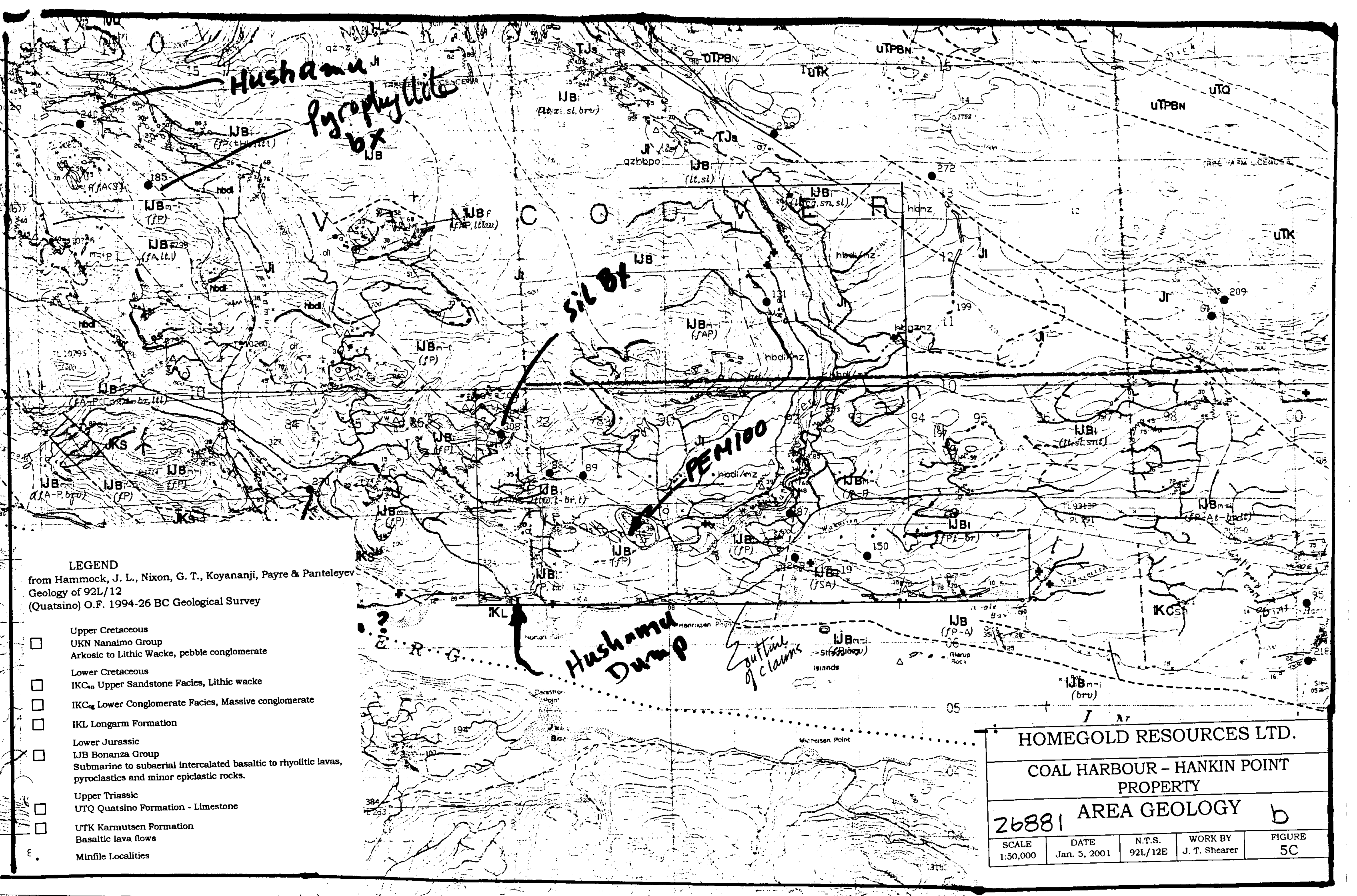
TABLE II

Trace Element Content of Chalky Geyserite

Mo	Na%	Ni	P	Pb	S%	Sb	Sc	Sr	Ti%	Tl	U	V	W
2	<0.01	1	110	24	0.02	<2	<1	33	<0.01	<10	<10	3	<10

Zn	Ag	As	B	Ba	Be	Bi	Cd	Co	Cr	Cu	Ga	Hg	Mn
<2	0.2	6	<10	60	<0.5	<2	<0.5	<1	12	12	<10	<1	<5

ppm except where shown



LEGEND
from Hammock, J. L., Nixon, G. T., Koyananji, Payre & Panteleyev
Geology of 92L/12
(Quatsino) O.F. 1994-26 BC Geological Survey

Upper Cretaceous
☐ UKN Nanaimo Group
Arkosic to Lithic Wacke, pebble conglomerate

Lower Cretaceous
☐ IKC$_{sn}$ Upper Sandstone Facies, Lithic wacke
☐ IKC$_{cg}$ Lower Conglomerate Facies, Massive conglomerate
☐ IKL Longarm Formation

Lower Jurassic
☐ IJB Bonanza Group
Submarine to subaerial intercalated basaltic to rhyolitic lavas, pyroclastics and minor epiclastic rocks.

Upper Triassic
☐ UTQ Quatsino Formation - Limestone
☐ UTK Karmutsen Formation
Basaltic lava flows

• Minfile Localities

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COAL HARBOUR – HANKIN POINT PROPERTY

26881 AREA GEOLOGY b

SCALE	DATE	N.T.S.	WORK BY	FIGURE
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7.0 DIAMOND DRILLING

The present program consisted of 6 diamond drillholes on the Hushamu Zone totalling 968' (295.05m) and 7 diamond drillholes on the PEM100 High Silica Zone totalling 897' (273.4m) plus deepening hole APBY-99-09 and hole APBY-01-33 on the Chalky Geyserite Zone (265').

The location data is shown in Table III below:

TABLE III

Diamond Drill Data

HOLE #	N.	E.	LENGTH	DIP	AZIMUTH	ELEVATION	REMARKS
HUSH-01-01	9506.30	7685.30	(120') 36.58	-75	030	20.0	
HUSH-01-02	9613.80	7731.40	(120') 36.58	-70	020	25.0	
HUSH-01-03	9589.10	7729.50	(220') 67.07	-70	030	2.0	near high tide mark
HUSH-01-04	9562.00	7723.00	(158') 48.16	-70	020	20.0	
HUSH-01-05	9601.40	7708.20	(200') 60.96	-90	35	28.0	
HUSH-01-06	9580.00	7700.00	(150') 46.63	-75	020	32.0	
Subtotal 968 ft.							
APBY-01-26	9417.10	8034.70	15.55 (51')	-90	000	156.80	between 7 & 10
APBY-01-27	9601.50	7804.00	13.41 (60')	-90	000	140.00	east of 10
APBY-01-28	9654.00	7890.00	15.25(50')	-90	000	150.00	on P100
APBY-01-29	9390.00	7974.00	12.20(75')	-90	000	168.00	upper tote road
APBY-01-30	9283.20	7964.20	30.79 (101')	-90	000	161.20	upper tote road
APBY-01-31	9415.5	7901.9	30.49 (100')	-90	000	157.50	upper tote road
APBY-01-32	9447.50	7846.80	30.79 (101')	-90	000	156.20	upper tote road
APBY-01-33	9526.0	7825.00	30.79 (101')	-90	000	159.70	road 100A
APBY-99-09	9222.30	7991.30	30.49 (100')	-90	000	167.64	deepening of 99-09
Subtotal 1,162 ft							
Total Footage = 2,120 ft							

Diamond drill logs are contained in Appendix III in the back of this report.

The 6 diamond drill holes completed on the Hushamu Area are plotted on Figure 6 (in pocket) and in cross section on Figures 8, 9 and 10 (in pocket). Each hole encountered a series of shaley sandstone, grey sandstone, coarse sandstone and coaly shale. The sandstone proved to have too high a sulfur content on assay of the fresh rock. Hole Hush-01-05 penetrated into the underlying volcanic tuff and green volcanic breccia.

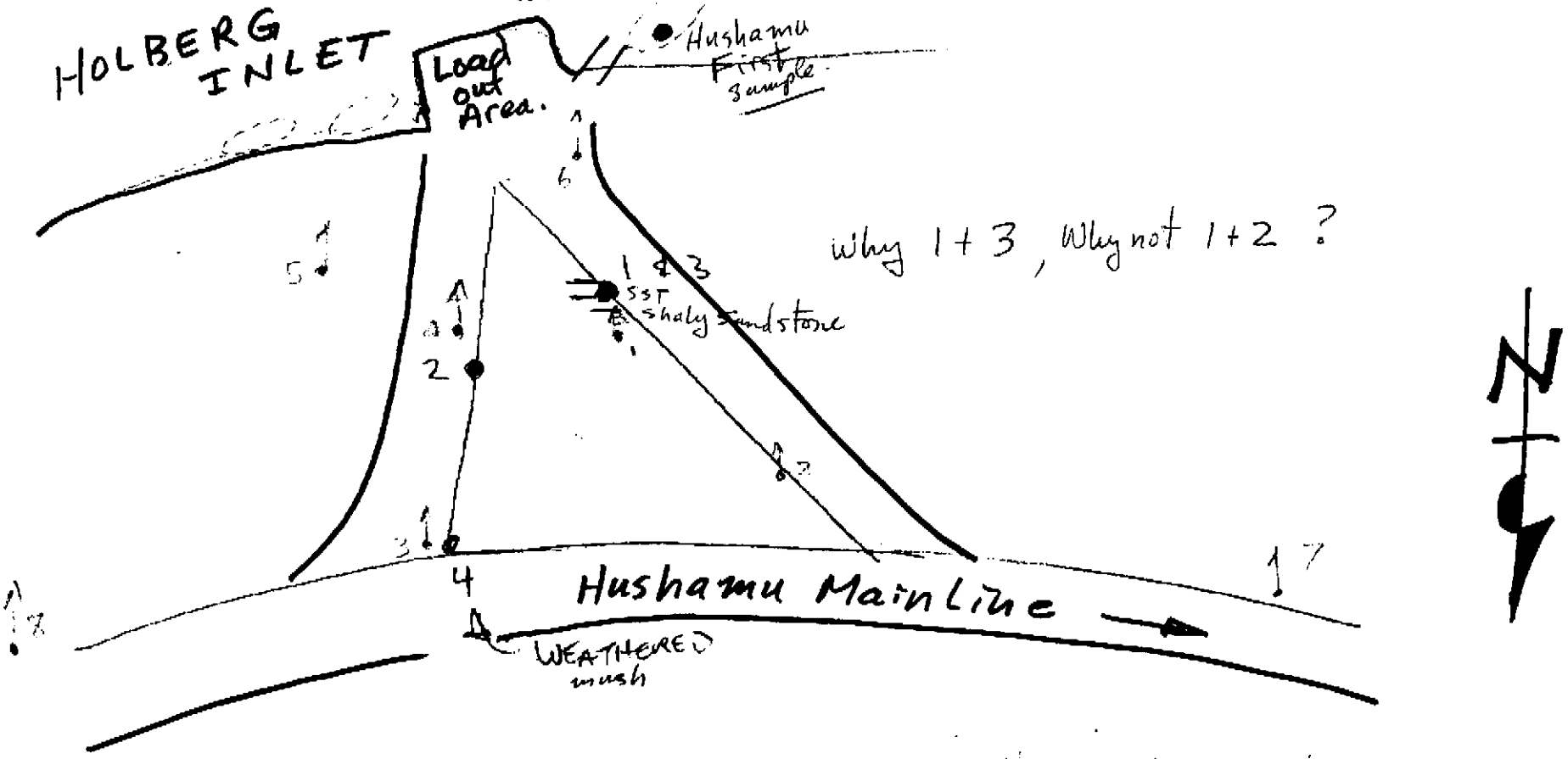
The seven diamond drill holes completed in the Area "C" Zone of the high silica (geyserite) portion of the PEM100 deposit are plotted on Figure 7 (in pocket and in cross section on Figures 11 and 12 (in pocket). Each of the holes APBY-2001-25, 27, 28 (along the north side of the P-100 access road) encountered angular polymictic geyserite breccia (Figure 11), which returned uniformly high silica content. The sulfur content of these holes decreases from west to east with the previously drilled hole 99-07 being the highest sulfur geyserite found on the property. The northernmost fence of holes (APBY-2001-29, 30, 31 and 32) encountered high silica polymictic geyserite breccia in the uppermost part of the holes, then passed through a elevated Al2O3 (chalky geyserite)

FAX:946 2420
ID:TILBURY CEMENT
FILE No.574 02/21 '01 11:58

HUSHAMU

Date of submissi 8-Feb-01
Project Name: Hushamu
Tilbury ID ID1

			SiO2	Al2O3	Fe2O3	CaO	MgO	Na2O	K2O	SO3	Cl	P2O5	TiO2	Total	TALK	
F01-1	Bad tests	SST.W.SIDE.MID	56.00	16.71	10.92	1.20	1.51	1.68	1.00	-0.08	0.01	0.04	0.90	89.89	2.34	Typical
F01-2		S.SIDE.MID.TRIANGLE	51.20	15.83	15.02	1.20	1.97	2.36	0.67	0.15	0.00	0.05	1.20	89.65	2.80	
F01-3		W.SIDE.MID.TRIANGLE	59.10	18.57	7.72	0.50	1.58	1.34	1.48	-0.14	0.00	0.04	0.84	91.03	2.31	
F01-4		SE.CORNER.TRIANGLE	66.40	18.92	4.21	1.30	0.94	0.55	0.60	-0.15	0.00	0.04	1.24	94.06	0.94	
			58.18	17.51	9.47	1.05	1.50	1.48	0.94	-0.06	0.00	0.04	1.05	91.16	2.10	



March 11, 2001

HUSHAMU

STRATIGRAPHIC SECTION – COLUMN –

Approximate footages

TOP NOT SEEN

LOWER CRETACEOUS LONGARM FORMATION

70'+ relatively recessive (soft)

Wispy Fine grained Grey Sandstone – abundant coaly partings wispy structures but not bedded

Δ 2 samples for bond

50'+ Resistant (hard)

Clean Coarser Grey SST Sandstone massive ± coal up to 1' thick, calcareous nodules common

Δ 1 sample for bond

Shaley SST well laminated

70'+ Recessive (soft)

Shale

Shaley SST

Δ 1 samples for initial chemistry

Shale

? ? (?)

Red tuffaceous shale

CONTACT NOT SEEN

green crystal tuff breccia

Along Beach – distinctive unit → crossbedded SST unit far above wispy SST unit

central zone of up to 6m in thickness and then back into high silica geyserite below. This chalky geyserite horizon is characterized by flow laminated rhyolite parent material. The central chalky geyserite zone appears to dip at a shallower angle than the hillside since the chalky geyserite was not encountered in the road drill fence of holes 99-7, 01-26, 99-10, 01-27 and 01-28.

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26881 APPLE BAY PROJECT C

DETAIL SITE & GEOLOGY MAP

1:5,000

SCALE as shown	DATE Aug. 00	N.T.S. 92L/12E	WORK BY J. T. Shearer	FIGURE 6

8.0 CONCLUSIONS and RECOMMENDATIONS

Acquisition and preliminary evaluation of the PEM100 Chalky Geyserite Quarry was undertaken in October 1999 for Homegold Resources Ltd. The alumina and silica resource at PEM100 is a source for the raw material requirements of the cement plant operated by Tilbury Cement in Delta, B.C. A 25-35 metre thick Lower Jurassic sequence of intensely silicified and clay altered rhyolite flows and pyroclastic units of the Bonanza Group outcrop along a 320° trend for more than 800 metres from the PEM100 Quarry towards the Pemberton Hills.

Two main sub areas of chalky geyserite have been outlined by drilling to date on the PEM100 zone. Area A covers a 60,000m^2 area around the PEM100 quarry. This 27.77m thick zone contains about 4 million tonnes of chalky geyserite geological resource grading approximately 83.66% SiO_2, 12.49% Al_2O_3 and 0.09% SO_3. Area B is located approximately 150 metres northwest of Area A and it covers a 20,000m^2 area in a saddle between to Wann Knobs. The 21.34m thick Area B zone contains about 1 million tonnes of geological material grading approximately 81.84% SiO_2, 14.33% Al_2O_3 and 0.05% SO_3. The total geological resources and average grade of both Area A and B is 5 million tonnes grading 83.26% SiO_2, 12.90% Al_2O_3 and 0.08% SO_3.

An area of approximately 8 hectares will be required to be cleared for the initial quarry development. Environmental impacts are expected to be minimal. Several options for reclamation are proposed. The initial open cut of about 5 million tonnes is expected to be sufficient for the cement plant's requirements for about 30 years.

Approximately 9400 tonnes of chalky geyserite were drilled and blasted in 2000 on the initial pioneer bench at 100m elevation. This material was barged to the cement plant for an industrial trial. The results are ongoing.

The present program consisted of 6 diamond drillholes on the Hushamu Zone totalling 968' (295.05m) and 7 diamond drillholes on the PEM100 High Silica Zone totalling 897' (273.4m) plus deepening hole APBY-99-09 and hole APBY-01-33 on the Chalky Geyserite Zone (265').

The Hushamu shale-sandstone unit contains too much sulfur. The sulfur values in the high grade silica zone decrease from west to east.

Respectfully submitted,

J.T. (Jo) Shearer, M.Sc., P.Geo.
Consulting Geologist
Quarry Supervisor #98-3550
March 15, 2002

9.0 REFERENCES

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APPENDIX I

STATEMENT of QUALIFICATIONS

J. T. Shearer, M.Sc., P.Geo.

March 15, 2002

Appendix I

STATEMENT OF QUALIFICATIONS

I, JOHAN T. SHEARER, of 1817 Greenmount Avenue, in the City of Port Coquitlam, in the Province of British Columbia, do hereby certify:

1. I am a graduate of the University of British Columbia (B.Sc., 1973) in Honours Geology, and the University of London, Imperial College (M.Sc., 1977).

2. I have over 25 years experience in exploration for base and precious metals and industrial mineral commodities in the Cordillera of Western North America with such companies as McIntyre Mines Ltd., J.C. Stephen Explorations Ltd., Carolin Mines Ltd. and TRM Engineering Ltd.

3. I am a fellow in good standing of the Geological Association of Canada (Fellow No. F439) and I am a member in good standing with the Association of Professional Engineers and Geoscientists of British Columbia (Member No. 19,279).

4. I am an independent consulting geologist employed since December 1986 by Homegold Resources Ltd. at #5-2330 Tyner St., Port Coquitlam, B.C.

5. I am the author of a report entitled "Geological and Diamond Drilling Report on the Apple Bay Project (PEM100 Chalky Geyserite Quarry Holberg Inlet Area, Wanokana Creek, Vancouver Island" dated March 15, 2002.

6. I have visited the property in September 1999, October 12, November 30 – December 15, 1999, and throughout 2000 while development and bulk sampling occurred. I have carried out mapping and sample collection and am familiar with the regional geology and geology of nearby properties. I have become familiar with the previous work conducted on the Apple Bay claims by examining in detail the available reports and maps and have discussed previous work with persons knowledgeable of the area.

7. I have an Open Pit Supervisor Ticket (#98-3550) for daily supervision duties in the Geyserite Quarry.

8. I have own interest in the Apple Bay Claims and own Homegold Resources Ltd.

Dated at Port Coquitlam, British Columbia, this 15th day of March, 2002.

J.T. Shearer, M.Sc., F.G.A.C., P.Geo.
Quarry Supervisor
March 15, 2002

APPENDIX II

STATEMENT of COSTS

March 15, 2002

APPENDIX II

STATEMENT of EXPENDITURES
APPLE BAY PROJECT
Hushamu and High Silica Zone

Wages and Benefits		
J.T. Shearer, M.Sc., P.Geo., Quarry Supervisor 98-3550		
31 days @ $350		$ 10,850.00
Core Splitting, Hushamu		
4 days @ $200		800.00
Core Splitting, High Silica		
8 days @ $200		1,600.00
		$ 13,250.00
	GST	927.50
	Subtotal Wages	$ 14,177.50
Transportation		
Truck Rental, Fully equipped 4x4		
31 days @ 53.50		1,658.50
Gas & Consumables		560.00
Hotel, Food and Meals		1,860.00
North Island Rockpro, Road Building		
Tracked Excavator, Moving Drill & Reclamation		4,282.00
Diamond Drilling		
High Silica - 1162 ft. in 8 holes & deepening 99-09		19,360.00
- Consumables & Field Time		1,645.00
Hushamu - 968 ft. in 6 holes		9,680.00
- Consumables & Field Time		1,160.00
Mob & demob Hushamu		1,500.00
Mob & demob High Silica		2,200.00
Nilsson Mine Services – AutoCad and Engineering		1,862.50
Analytical – High Silica, 42 x $26.50		1,013.00
Analytical – Hushamu, 27 x $26.50		615.50
Report Preparation		800.00
Word Processing and Reproduction		385.00
	Total	$ 48,581.50
	GRAND TOTAL	**$ 62,759.00**

APPENDIX III

DRILL LOGS

Hushamu and High Silica Zone

March 15, 2002

HOMEGOLD RESOURCES LTD.

Unit #5 – 2330 Tyner St., Port Coquitlam, B.C. V3C 2Z1

APPLE BAY PROJECT – Hushamu Property

SECTION: Hushamu

Diamond Drill Log

DDH#: Hush-01-01

Northing: _____
Easting: _____
Elevation: Approx. 20m
Azimuth: 030
Inclination: -75°
Grid: No Grid
Length (m): 36.58m (120 ft)
Core size: AxW
Contractor: Boisvenu
Drill Type: Packdrill Hydraulic

Drill Hole survey
Method: Brunton

Azimuth	Dip	Depth
030	-75	Collar

Property: Apple Bay Four
NTS: 92L/12W
Claim: Apple Bay Four
Date Started: March 7, 2001
Date Completed: March 8, 2001
Logged by: J.T. Shearer, M.Sc., P.Geo.

Sample Split:
3'-10' 10'-15' 15'-20' 20'-25'
25'-30' 30'-35' 35'-40' 40'-45'
45'-50' 50'-55' 55'-60' 60'-65'
65'-70' 70'-75' 75'-80' 80'-85'
85'-90' 90'-95' 95'-100' 100'-105'
105'-110' 110'-115' 115'-120'

Purpose: Test Longarm Formation at Hushamu.

from (m)	to (m)	Code	Description	sample No.	from/to	width (m)	Au (g/t)
0.00	0.91		**OVERBURDEN**: No core, weathered shaley sandstone.				
0.91	1.45		**WEATHERED SHALEY SANDSTONE**: MuO on fractures, orange-brown colour.				
1.45	16.76		**GREY SANDSTONE**: light to medium grey, minor dark grey laminations at 50°-60° to core axis at 4.39m. Layering up to 70°-75° to core axis at 6.45m, minor layer down to 8.20m. Small sub-spherial calcareous concretions common over short sections.				
16.76	18.16		**SHALEY SANDSTONE**: dark grey, numerous darker bedding at 17.35m is 65° to core axis.				
18.16	19.12		**LIGHT GREY SANDSTONE**: medium clastic, relatively uniform.				
19.12	21.61		**SHALEY SANDSTONE**: bedding common				
21.61	23.95		**LIGHT GREY SANDSTONE**: relatively uniform. FAULT zone 22.29-23.95m about 45° to core axis is the main direction of shearing				
23.95	25.11		**DARK GREY SHALE**:				
25.11	25.88		**COARSE SANDSTONE**:				
25.88	27.90		**SHALEY SANDSTONE**: somewhat gradational contact				
27.90	31.75		**COARSE SANDSTONE**: lower contact at narrow coal seam, which is 18mm wide.				
31.75	32.25		**COALY SHALE**:				
32.25	33.68		**VERY COARSE SANDSTONE**: minor pebble conglomerate				

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Unit #5 – 2330 Tyner St., Port Coquitlam, B.C. V3C 2Z1

APPLE BAY PROJECT – Hushamu Property

SECTION: Hushamu Page: 2 of 2 DDH#: HUSH-01-01

from (m)	to (m)	Code	Description	sample No.	from/to	width (m)	Au (g/t)
33.68	36.58		**SHALE:** minor shaley sandstone 33.68-34.01m ending at narrow coal seam.				
	E.O.H.						
			END of HOLE 36.58m (120 ft.)				

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Unit #5 – 2330 Tyner St., Port Coquitlam, B.C. V3C 2Z1

APPLE BAY PROJECT – Hushamu Property

SECTION: Hushamu

Diamond Drill Log

DDH#: Hush-01-02

Northing:
Easting:
Elevation: Approx. 25m
Azimuth: 020
Inclination: -70°
Grid: No Grid
Length (m): 36.58m (120 ft)
Core size: AxW
Contractor: Boisvenu
Drill Type: Packdrill Hydraulic

Drill Hole survey
Method: Brunton

Azimuth	Dip	Depth
020	-70	Collar

Property: Apple Bay
NTS: 92L/12W
Claim: Apple Bay Four
Date Started: March 8, 2001
Date Completed: March 9, 2001
Logged by: J.T. Shearer, M.Sc., P.Geo.

Sample Split:
23'-30' 30'-35' 35'-40'
+ up to 120' in 5' intervals

Purpose: Move 35m to the North, Test Longarm Formation at Hushamu, North of Hole HUSH-01-01

from (m)	to (m)	Code	Description	sample No.	from/to	width (m)	Au (g/t)
0.00	7.01		**OVERBURDEN**: No core only rubble, volcanic clast-boulders, stony clay-till, rusty sand				
7.01	7.36		**COARSE LIGHT GREY SANDSTONE**: clasts up to 3-4mm abundant coal partings up to 8mm in thickness at 75° to 85° to core axis, very friable. Soft sediment deformation at lower contact over 10cm.				
7.36	10.52		**MEDIUM GREY SHALE**: minor coaly lines, minor wispy bedding at 75° to core axis, very coaly 8.07-8.18m.				
10.52	13.54		**COARSE LIGHT GREY SANDSTONE**: slightly coarser grained, poorly bedded, minor irregular coaly partings up to 4mm wide at 12.38m, 12.49m at about 80° to core axis but also at angle as low as 40° to core axis. Thicker coaly layer at 13.16m-13.19m.				
13.54	13.93		**SHALEY SANDSTONE**: well bedded in places, bedding at top is 80°-90° to core axis. Minor wavy beds.				
13.93	15.34		**COAL**: black, vitric, minor nodular, clay rich.				
15.34	15.76		**COARSE LIGHT GREY SANDSTONE**:				
15.76	22.90		**SHALE**: dark grey, minor coaly lenses. Shear zone 16.48-16.64m in black shale. Shearing appears to be at a high angle (±80°) to core axis. Calcite layers at 90° to core axis at 17.95m.				
22.90	23.11		**COARSE GREY SANDSTONE**: narrow layer, non-bedded, bedding on top and bottom contacts is at 80° to core axis.				

HOMEGOLD RESOURCES LTD.

Unit #5 – 2330 Tyner St., Port Coquitlam, B.C. V3C 2Z1

APPLE BAY PROJECT – Hushamu Property

SECTION: Hushamu Page: 2 of 2 DDH#: HUSH-01-02

from (m)	to (m)	Code	Description	sample No.	from/to	width (m)	Au (g/t)
23.11	28.09		**DARK GREY SHALE**: minor gouge at 23.68m at 60° to core axis. Minor thin coal layers at 24.67m and 25.21m up to 12mm wide, grey gout at 25.48m and 25.74-25.92m at 90° to core axis.				
28.09	28.42		**FAULT GOUGE**: developed in shale.				
28.42	30.51		**DARK GREY SHALE**				
30.51	33.92		**LIGHT GREY FINE SANDSTONE**: rubble zone 33.15-33.40m.				
33.92	36.58 E.O.H.		**DARK GREY SHALE**: shear zone 34.48-34.72m at 35° to core axis, 2 cm of grey gouge at bottom, Minor irregular coal seams 35.12m 8mm wide, 35.24-35.31m cut by regular calcite veinlets. Uniform shale at end of hole.				
			END of HOLE 35.58m (120 ft.)				

HOMEGOLD RESOURCES LTD.

Unit #5 – 2330 Tyner St., Port Coquitlam, B.C. V3C 2Z1

APPLE BAY PROJECT – Hushamu Property

SECTION: Hushamu | **Diamond Drill Log** | **DDH#:** Hush-01-03

Northing: _____
Easting: _____
Elevation: Approx. 2m
Azimuth: 030
Inclination: -70°
Grid: No Grid
Length (m): 67.07m (220 ft)
Core size: AxW
Contractor: Boisvenu
Drill Type: Packdrill Hydraulic

Drill Hole survey
Method: Brunton

Azimuth	Dip	Depth
030	-70	Collar

Property: Apple Bay
NTS: 92L/12W
Claim: Apple Bay Four
Date Started: March 9, 2001
Date Completed: March 10, 2001
Logged by: J.T. Shearer, M.Sc., P.Geo.
Sample Taken:
9-15, 15-20, 20-25,
and then every 5 ft. to E.O.H. at 67.07m.

Purpose: On South Part of Access Road (near high tide line), South of Drillhole Hush-01-01

from (m)	to (m)	Code	Description	sample No.	from/to	width (m)	Au (g/t)
0.00	2.74		**OVERBURDEN**: Road Fill, Large volcanic boulders, clay (till) and sand.				
'4	21.49		**MEDIUM GREY WISPY SANDSTONE**: relatively soft, medium to fine grained, relatively uniform, darker grey wisps very common sporadically throughout section – appears to reflect bedding. Appears to be at high angle (>80° to core axis), some wisps appear to reflect small nodules. Minor calcite hairlines throughout, calcite stinger at 9.52m at 35° to core axis, minor crystals filling small cavities. Coarser clastic band 10.48m-10.53m. Slightly darker band at 11.02m is 12mm thick at 85° to core axis. Relatively uniform throughout Some of wispy zones is coal partings, irregular coal patch at 9.14m. Short concentration of irregular wispy black lenses at 15.26m-15.32m/ Minor nodules at 17.72m-17.80m, subrounded associated with calcareous lenses.				
21.49	23.66		**FAULT ZONE**: GREY FAULT ZONE – Gouge, associated with minor calcite selvages. The crush zone extends to 27.43m				
23.66	27.43		**CRUSH ZONE**: WISPY GREY SANDSTONE, calcite stockwork, short argillaceous dark sections.				
27.43	32.02		**WISPY GREY SANDSTONE**: finely clastic, irregular short darker grey wisps common. Calcite patches intense between 31.31m-31.42m.				

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Unit #5 – 2330 Tyner St., Port Coquitlam, B.C. V3C 2Z1

APPLE BAY PROJECT – Hushamu Property

SECTION: Hushamu Page: 2 of 2 DDH#: HUSH-01-03

from (m)	to (m)	Code	Description	sample No.	from/to	width (m)	Au (g/t)
32.02	33.53		**GREY COARSE SANDSTONE**: relatively short section without appreciable darker wisps, distinctly coarser grained. Traces of disseminated pyrite.				
33.53	35.16		**WISPY GREY SANDSTONE**: wispy layers more regular forming bands 75° to 80° to core axis.				
35.16	39.74		**COARSE GREY SANDSTONE**: relatively massive, relatively uniform. minor disseminated pyrite over short sections 38.70-38.80m.				
39.74	49.81		**WISPY GREY Fine Grained SANDSTONE**: convoluted wispy layers at 45.32-45.48m.				
49.81	53.16		**GREY MASSIVE SANDSTONE**: very minor coal partings.				
53.16	53.34		**DARK GREY COALY SANDSTONE**:				
53.34	56.62		**FREY MASSIVE SANDSTONE**: relatively uniform.				
.62	60.01		**SHALEY SANDSTONE**; well bedded in places, darker grey mostly, short section of coarser sandstone 57.50-58.08m.				
60.01	63.06		**GREY MASSIVE SANDSTONE**: medium clastic, relatively uniform throughout. Minor coaly partings, especially 62.764m-62.82m.				
63.06	64.01		**SHALEY SANDSTONE - COALY SHALE**: mainly dark grey, vitrinite, some soft coaly zones.				
64.01	67.06 E.O.H.		**COARSE MASSIVE GREY SANDSTONE**: minor to trace disseminated pyrite, relatively coarser grained. Coaly partings at 70d to core axis throughout.				

END of HOLE 67.06m (220 ft.)

HOMEGOLD RESOURCES LTD.

Unit #5 – 2330 Tyner St., Port Coquitlam, B.C. V3C 2Z1

APPLE BAY PROJECT – Hushamu Property

SECTION: Hushamu

Diamond Drill Log

DDH#: Hush-01-04

Northing:
Easting:
Elevation: Approx. 20m
Azimuth: 020
Inclination: -70°
Grid: No Grid
Length (m): 48.16m (159 ft)
Core size: BTW
Contractor: Boisvenu
Drill Type: Packdrill Hydraulic

Drill Hole survey
Method: Brunton

Azimuth	Dip	Depth
020	-70	Collar

Property: Apple Bay
NTS: 92L/12W
Claim: Apple Bay Four
Date Started: March 10, 2001
Date Completed: March 12, 2001
Logged by: J.T. Shearer, M.Sc., P.Geo.
Sample Collected:
11-15, 15-20, 20-25, and in 5 ft. intervals up to 133
130-133, 133-138

Purpose: To Northeast corner of Access Road, near natural outcop drilled to Red Sheared Bonanza Shale.

from (m)	to (m)	Code	Description	sample No.	from/to	width (m)	Au (g/t)
0.00	3.35		**OVERBURDEN**: Sand, Till, beside outcrop				
3.35	6.42		**GREY SANDSTONE**: coarse clastic section top 16 cm (could be boulder) rest of interval medium clastic, Rusty-weathered to 4.27m. Fault zone at lower contact.				
6.42	7.34		**WISPY SANDSTONE**: dark brown irregular wispy lenses to coaly partings – crude layers.				
7.34	9.27		**GREY SHALE**: Faulted section, gouge Lower contact gouge, coal fragments caught in gouge.				
9.27	10.76		**SHALEY SANDSTONE**: some well bedded sections intercalated with sandstone with coaly partings. Rubbly core at 10.36m				
10.76	15.24		**GREY MEDIUM SANDSTONE**: relatively uniform down to 12.64m. Abundant irregular coal seams up to 20mm wide from 12.64-13.41m. Coarser clastic below coaly section, minor pebble conglomerate 60° to core axis at 13,85m. Abundant coal irregular 15.11-15.23m cut by many calcite hairlines, pebble conglomerate.				
15.24	15.56		**BROWN SHALE**: finely laminated, nodular				
15.56	18.82		**GREY MASSIVE SANDSTONE**: medium to coarse clastic, minor coaly lenses, poorly bedded. Lower contact Faulted, gouge.				
18.82	22.84		**GREY SHALE**: bedding not well developed, minor lenses of coal at 22.80m. Lower contact gouge development.				

HOMEGOLD RESOURCES LTD.

Unit #5 – 2330 Tyner St., Port Coquitlam, B.C. V3C 2Z1

APPLE BAY PROJECT – Hushamu Property

SECTION: Hushamu Page: 2 of 2 DDH#: HUSH-01-04

from (m)	to (m)	Code	Description	sample No.	from/to	width (m)	Au (g/t)
22.84	23.47		**GREY SANDSTONE**: coal in upper part, some salt and pepper texture – clay alteration.				
23.47	24.63		**SHALEY SANDSTONE**: dark grey, well laminated, minor coaly sections, bedding at 24.38m at 85° to core axis.				
24.63	35.05		**DARK GREY SHALE**: coal section 24.86-24.92m and 25.08-25.11m. Rubbly fractured core below 26.52m. Faulting becoming very prominent 28.25m – gouge, shattering of section, main direction 45° to core axis at 28.53m. Less faulted shale below 28.58m to 34.44m. Highly sheared 34.44-35.05m – abundant gouge and slickensides.				
35.05	35.97		**RED SHALE**: highly sheared, abundant slickensides, very faulted, intensely slickensided at all directions.				
35.97	37.49		**GREEN TUFFACEOUS SHALE**: very altered, abundant slickensides, gouge				
37.49	48.16 E.O.H.		**RED SHALE**: some sections massive, short sections have abundant slickensides at 5° to 10° to core axis. Variegated green from 47.24-48.16m.				

END of HOLE 48.16m. (158 ft.)

HOMEGOLD RESOURCES LTD.

Unit #5 – 2330 Tyner St., Port Coquitlam, B.C. V3C 2Z1

APPLE BAY PROJECT – Hushamu Property

SECTION: Hushamu **Diamond Drill Log** **DDH#:** Hush-01-05

Northing: _____
Easting: _____
Elevation: Approx.
Azimuth: 000
Inclination: -90°
Grid: No Grid
Length (m): 60.96m (200 ft)
Core size: BTW
Contractor: Boisvenu
Drill Type: Packdrill Hydraulic

Drill Hole survey
Method: Brunton

Azimuth	Dip	Depth
000	-90	Collar

Property: Apple Bay Four
NTS: 92L/12W
Claim: Apple Bay Four
Date Started: March 13, 2001
Date Completed: March 14, 2001
Logged by: J.T. Shearer, M.Sc., P.Geo.

Sample Split:
22-40, 40-45 and then at 5' intervals down to 130-133
133-138.

Purpose: 150m step-out to the west along the Hushamu Mainline. Vertical hole.

from (m)	to (m)	Code	Description	sample No.	from/to	width (m)	Au (g/t)
0.00	10.06		**OVERBURDEN**: considerable road fill at top, hole collared on downslope side of Mainline, reddish Till common, pebbles and boulders of dark green volcanics and weathered diorite.				
10.06	12.19		**SHALEY MEDIUM GREY SANDSTONE**: darker grey layering common at 85° to core axis at 11.89m. Medium to fine clastic, minor coaly layers at 11.58 at 70° to core axis.				
12.19	14.95		**GREY SHALE**: minor dark grey sections, minor coaly layers and coaly partings.				
14.95	14.96		**FAULT ZONE**: black gouge, abundant slickensides at numerous orientations, lower contact with coal.				
14.96	15.31		**COAL**: some dull but also abundant vitrinite calcite hairlines common.				
15.31	17.22		**SHALEY MEDIUM GREY SANDSTONE**: more shaley than usual, well layered in places at 65° to core axis. Gradational lower contact.				
17.22	22.38		**DARKER GREY SHALE**: relatively massive, minor calcareous concretions at 17.83-17.86m Short dark grey sections reflecting increase in carbonaceous material. Coaly shale 22.34-22.38m.				
.38	25.34		**SHALEY GREY SANDSTONE**: poorly bedded overall, bedding at 24.72 is at 64° to core axis, medium clastic mainly.				
25.34	27.43		**GREY SHALE**: relatively massive, minor dark grey to black sections.				

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Unit #5 – 2330 Tyner St., Port Coquitlam, B.C. V3C 2Z1

APPLE BAY PROJECT – Hushamu Property

SECTION: Hushamu Page: 2 of 2 DDH#: HUSH-01-05

from (m)	to (m)	Code	Description	sample No.	from/to	width (m)	Au (g/t)
27.43	28.28		**COAL and DULL SHALEY COAL**: Pyrite films on surfaces parallel to core axis, some sections of vitrinite-lustrous coal contains a hairline network of calcite veinlets.				
28.28	30.45		**SHALEY GREY SANDSTONE**: minor coaly lenses and coaly partings, bedding at end of interval is at 75° to core axis.				
30.45	31.92		**COAL and FAULT GOUGE IN COAL**: black, abundant slickensides throughout, core rubbly and granulated.				
31.92	34.31		**SHALEY SANDSTONE**: highly faulted throughout, gouge common, shearing appears to be at low angle <5° to core axis, very broken core. bedding at 33.83m at 60° to core axis.				
34.31	36.09		**DARK GREY to BLACK FAULT GOUGE**: gouge is 95% of section, traces of sheared black shale.				
.09	38.70		**SHEARED BLACK SHALE**: slickensides at a variety of low angles internal to core.				
38.70	40.54		**COAL GOUGE**: black gouge with short sections of less sheared coal. Minor short shaley sandstone sections 38.72-38.92m and 39.62-39.74m. Slickensides at lower contact are at 14° to core axis.				
40.54	44.26		**VOLCANIC TUFF**: medium grey, prominent flatten greenish fragments – Lapilli, rhyodacitic, minor glassy structures, which are much harder than enclosing fine grained matrix. Parts appear to be expandable rhyolite. Brecciation becoming more common gradually toward lower contact.				
44.26	60.96 E.O.H.		**GREEN VOLCANIC BRECCIA**: dark green fragments within a light grey matrix. Light grey matrix becomes much more abundant below 52.56m. Fragments become more rounded toward bottom of hole with smaller, more angular fragments in the matrix occupying the interstitial space. Crystal-rich fragments prominent 49.00-52.56m. Red staining pervasively 50.10-52.40m. Grey gouge 57.90-57.94m ≈ 80° to core axis.				

END of HOLE 60.96m. (200 ft.)

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Unit #5 – 2330 Tyner St., Port Coquitlam, B.C. V3C 2Z1

APPLE BAY PROJECT – Hushamu Property

SECTION: Hushamu

Diamond Drill Log

DDH#: Hush-01-06

Northing:
Easting:
Elevation: Approx.
Azimuth: 020
Inclination: -70°
Grid: No Grid
Length (m): 46.63m (153 ft)
Core size: ATLO
Contractor: Boisvenu
Drill Type: Packdrill Hydraulic

Drill Hole survey
Method: Brunton

Azimuth	Dip	Depth
020	-70	Collar

Property: Apple Bay
NTS: 92L/12W
Claim: Apple Bay Four
Date Started: March 14, 2001
Date Completed: March 16, 2001
Logged by: J.T. Shearer, M.Sc., P.Geo.

Samples Collected:
42-48, 48-55
55-60 down to 150
Final Sample 150-153

Purpose: 30m North of Hole Hush-01-02, Northwest Corner of "Triangle"

from (m)	to (m)	Code	Description	sample No.	from/to	width (m)	Au (g/t)
0.00	12.80		**OVERBURDEN**: Mostly no core, Some clayey sand, pebbles from stoney clay, Till over bedrock.				
12.80	17.68		**GREY SANDSTONE**: Relatively massive, poorly bedded, gradational contact between 17.68m and 18.31m. Narrow coal seam 18mm wide at 17.68m.				
17.68	23.44		**DARK GREY SHALE**: bedding throughout at 75° to core axis, minor gouge along fractures at 85° to core axis at 19.92m and 20.22m. Gougey coal layers occur 20.81-20.84m, 21.07-21.18m. Interval becomes progressively darker below 22.25m. Vitrinite coal seam 23.06-23.26m irregular contact. Narrow coal seam 23.38-23.44m sheared at high angle to core axis.				
23.44	24.23		**SHALEY SANDSTONE**: dark grey, well bedded, bedding throughout is >85° to core axis, minor coal seam 23.73-23.75m. Well developed grey gouge at lower contact at 38° to core axis, Faulted.				
24.33	25.55		**DARK GREY SHALE**: poorly bedded, minor coaly partings 75-80° to core axis. Lower contact Faulted.				
25.55	27.06		**GREY MASSIVE SANDSTONE**: abundant calcite hairlines at 15-20° to core axis throughout section. No bedding apparent.				
27.06	30.38		**DARK GREY SHALE**: numerous black coaly partings and fragments, which outline a crude layering section not fractured or broken. Minor calcite hairline tension gash veinlets				

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Unit #5 – 2330 Tyner St., Port Coquitlam, B.C. V3C 2Z1

APPLE BAY PROJECT – Hushamu Property

SECTION: Hushamu Page: 2 of 2 DDH#: HUSH-01-06

from (m)	to (m)	Code	Description	sample No.	from/to	width (m)	Au (g/t)
30.38	32.39		**SHALEY SANDSTONE**: slightly lighter grey in colour, gradational contact above and below. Minor rough bedding at 75° to core axis along minor shale interlaminations.				
32.39	34.38		**DARK GREY SHALE**: minor coaly partings at a high angle to core axis, Gouge on fractures throughout but more so below 33.50m.				
34.338	35.25		**GREY SANDSTONE**: massive, no bedding, medium clastic.				
35.25	45.03		**SHALEY SANDSTONE**: well bedded alternating dark and light grey laminations mainly at 65° to core axis. Minor narrow coal seams 38.47-38.51m, gouge on fractures 38.91-38.95m, 39.01-39.12m. Coal 39.23-39.29m within black interval. Folding and small scale offsets on bedding lamination convolutions 39.92-40.29m. Somewhat bleached 42.52-45.03m, gouge and broken core at end of section.				
45.03	45.81		**DARK GREY to BLACK SHALE**: very dark interval, abundance of carbonaceous material. Lower contact conformable at 65° to core axis, slickensides at 70° to core axis.				
45.81	46.49		**COAL**: black, solid, minor calcite veinlets, hard, well indurated, minor black shale. Lower contact sheared.				
46.49	46.63 E.O.H.		**DARK GREY SHALE**: bedding 85° to core axis, thicker beds than usual. Slickensides and broken core at end of hole.				

END of HOLE 46.63m (153 ft)

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Unit #5 – 2330 Tyner St., Port Coquitlam, B.C. V3C 2Z1

APPLE BAY PROJECT

HIGH SILICA GEYSERITE ZONE

SECTION: PEM100 **Diamond Drill Log** **DDH#: APBY-2001-26**

Northing:
Easting:
Elevation: Approx 367'(111.25m)
Azimuth: 000
Inclination: -90
Grid: PEM100
Length (m): 30.48m (100')
Core size: BQ
Contractor: Boisvenu
Drill Type: Hydraulic Packdrill

Drill Hole survey
Method: Brunton

Azimuth	Dip	Depth
000	-90	collar

Property: Apple Bay
NTS: 92L/12W
Claim: Apple Bay Mining Lease
Date Started: July 18, 2001
Date Completed: July 19, 2001
Logged by: J.T. Shearer, M.Sc., P.Geo.
Sample Split:

Purpose: To expand area of high silica geyserite around Hole AOBY-1999-10
Hole APBY-2001-26 is halfway between holes 07 and 10.

from (m)	to (m)	Code	Description	sample No.	from/to	width (m)	Au (g/t)
0	4.57		**OVERBURDEN and LOOSE ROCK**: minor rounded pebbles casing to 9' (2.74m)				
4.57	30.48		**COARSE GEYSERITE BRECCIA**: White to light grey matrix with light to dark grey angular to subrounded breccia fragments, Small 1-2mm vugs are common throughout. Crude layering at 48° to core axis at 6.10m, layering evident at irregular intervals, 56° to core axis at 6.40m minor quite chalky lenses. Small pyrite lenses at 7.01m and at widely spaced intervals throughout in the matrix dominant sections. Light iron oxide staining down to 11.28m. Tightly packed 1-2cm angular fragments up to 1.22m thick alternating with matrix dominant zones with polymictic sub-rounded fragments. Larger fragments are commonly light grey centres with darker grey margins. Internal iron oxide staining down to 10.97m then light greyish white to mottled depending on abundance of darker fragments.				
	Box 3		Minor disseminated pyrite at 13.11m, this pyrite is replacing some matrix and fragments. Subrounded light and dark grey subrounded fragments crowded throughout 15.00-21.00m, white chalky fragments common Narrow fine grained interval 17.95-18.32m.				

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Unit #5 – 2330 Tyner St., Port Coquitlam, B.C. V3C 2Z1

APPLE BAY PROJECT

HIGH SILICA GEYSERITE ZONE

SECTION: PEM100 Page: 2 of 2 DDH#: APBY-2001-26

from (m)	to (m)	Code	Description	sample No.	from/to	width (m)	Au (g/t)
			Suggestion of flow banded fragments at 19.45-19.54m Short sections of matrix dominant material, angular to ragged mainly dark fragments floating in a creamy light grey groundmass Autobreccia textures 24.04m to 25.91m consisting of mainly darker grey fragments with light grey matrix Close packed breccia, rounded fragments 25.91-28.96m Small vugs common throughout, generally all core is hard Matrix dominant floating dark fragments zone 28.96 to E.O.H. (30.48m) Very vuggy 29.45-30.48m. **END of HOLE 30.48M (100 feet)**				

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Unit #5 – 2330 Tyner St., Port Coquitlam, B.C. V3C 2Z1

APPLE BAY PROJECT

HIGH SILICA GEYSERITE ZONE

SECTION: PEM100 **Diamond Drill Log** **DDH#: APBY-2001-27**

Northing: _____
Easting: _____
Elevation: Approx 360'(109.73m)
Azimuth: 000
Inclination: -90
Grid: PEM100
Length (m): 38.10m (125')
Core size: BQ
Contractor: Boisvenu
Drill Type: Hydraulic Packdrill

Drill Hole survey
Method: Brunton

Azimuth	Dip	Depth
000	-90	collar

Property: Apple Bay
NTS: 92L/12W
Claim: Apple Bay Mining Lease
Date Started: July 19, 2001
Date Completed: July 19, 2001
Logged by: J.T. Shearer, M.Sc., P.Geo.
Sample Split:
9'-115', 15'-20', 10'-25', 25'-30' and then @ 5' intervals to E.O.H. A 125' (38.10m)

Purpose: To investigate area of high silica geyserite around Hole APBY-1999-10
Hole APBY-2001-27 is 50m east of Hole 10

from (m)	to (m)	Code	Description	sample No.	from/to	width (m)	Au (g/t)
0	2.74		**NO CORE**: overburden and broken rock casing to 9' (2.74m)				
2.74	1067		**COARSE GEYSERITE BRECCIA**: dark grey, large lineated fragments within a lighter grey fine grained matrix overall light grey to white appearance Much of top area is matrix dominant with floating fragments, Fragments throughout are at high angles to core axis, 70° - 80°d rough alignment from top of hole down to 10.67, these are conspicuous small lenses of irregular pyrite usually 2-3mm in diameter, Minor pyrite lenses along fractures at low angles to subparallel to core axis. High core recovery but once broken the core is quite fractured Vugs up to 1mm in diameter throughout Rough banding-layering of fragments at 10.36m is 57° to core axis.				
10.67	18.08		**FLOW LAMINATED GEYSERITE**: light grey, mainly will laminated at 29° to core axis at 10.97m. Some fragmental textures are observed throughout, section appears to have a higher alumina content due to the softer nature of the interval, but much of the material is relatively soft Near bottom of interval the flow lamination becomes much thicker and graded. 17.07-17.54m at 61° to core axis.				

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APPLE BAY PROJECT

HIGH SILICA GEYSERITE ZONE

SECTION: PEM100 Page: 2 of 2 DDH#: APBY-2001-27

from (m)	to (m)	Code	Description	sample No.	from/to	width (m)	Au (g/t)
118.08	26.31		**CHALKY WHITE FINE-GRAINED fragmental GEYSERITE**: creamy white mainly very fine grained throughout very much matrix dominant, fragment ghosting core can be carved at 23.35 – soft but well indurated. Does "softness" correlate with high Al_2O_3 content? Minor traces of orange iron oxide staining. Suggestion of devitrified bands at 70° to core axis at 22.56m Fractures at relatively low angles at <30° to core axis. Ghostly chalky white fragments floating throughout some short sections.				
26.31	31.19		**FRAGMENTAL CHALKY GEYSERITE**: variegated texture mottled with dark grey rounded "fragments" juxtaposed with irregular chalky zones of matrix and laminated fragment zones. Somewhat more siliceous appearance, core rubbly from 27.80-29.30m				
31.19	33.59		**WHITE BLEACHED flow laminated GEYSERITE**: light iron oxide surface staining from top of interval mainly differing orientations of flow banding 0° (parallel to core axis) at 33.98m Core rubbly toward lower contact.				
33.59	33.74		**FAULT ZONE**: clay rich gougy zone, dark grey colour, fissile parallel to core axis, very soft, "carveable" Rubbly core at bottom of interval				
33.74	38.10 E.O.H		**WHITE BLEACHED Flow Laminated GEYSERITE**: mainly very fine grained, white, uniform, flow folding common with banding t low angles to core axis Vuggy throughout Layering toward bottom of hole averages 22° to core axis but at 38.00m lamination is 63° to core axis A few very large fragments were observed				
			END of HOLE 38.10M (125 ft.)				

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Unit #5 – 2330 Tyner St., Port Coquitlam, B.C. V3C 2Z1

APPLE BAY PROJECT

HIGH SILICA GEYSERITE ZONE

SECTION: PEM100 **Diamond Drill Log** **DDH#: APBY-2001-28**

Northing: _____
Easting: _____
Elevation: Approx 361'(110.03m)
Azimuth: 000
Inclination: -90
Grid: PEM100
Length (m): 31.09m (102')
Core size: BQ
Contractor: Boisvenu
Drill Type: Hydraulic Packdrill

Drill Hole survey
Method: Brunton

Azimuth	Dip	Depth
000	-90	collar

Property: Apple Bay
NTS: 92L/12W
Claim: Apple Bay Mining Lease
Date Started: July 20, 2001
Date Completed: July 21, 2001
Logged by: J.T. Shearer, M.Sc., P.Geo.
Sample Split:
No Samples Necessary

Purpose: Ton investigate area of high silica geyserite around Hole APBY-1999-10
Hole APBY-2001-28 is 100m east of Hole 10

from (m)	to (m)	Code	Description	sample No.	from/to	width (m)	Au (g/t)
00	Approx. 19.18		**OVERBURDEN**: Till, boulders, triconed large boulders 0.5 to 1.0m in diameter Casing driven to 15.85m, bedrock encountered at about 19.18m (65')				
19.18	31.09 E.O.H.		**PYRITIC FAULT GOUGE of PYRITIC TUFF BRECCIA**: mainly dark green, highly pyritic with heavily disseminated finely divided pyrite Very soft and friable, minor angular fragments of medium green grey tuff				

END of HOLE 31.09M (102 ft.)

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Unit #5 – 2330 Tyner St., Port Coquitlam, B.C. V3C 2Z1

APPLE BAY PROJECT

HIGH SILICA GEYSERITE ZONE

SECTION: PEM100 **Diamond Drill Log** **DDH#: APBY-2001-29**

Northing: _____
Easting: _____
Elevation: Approx 410'(124.97m)
Azimuth: 000
Inclination: -90
Grid: PEM100
Length (m): 36.58m (120')
Core size: BQ
Contractor: Boisvenu
Drill Type: Hydraulic Packdrill

Drill Hole survey
Method: Brunton

Azimuth	Dip	Depth
000	-90	collar

Property: Apple Bay
NTS: 92L/12W
Claim: Apple Bay Mining Lease
Date Started: July 21, 2001
Date Completed: July 23, 2001
Logged by: J.T. Shearer, M.Sc., P.Geo.
Sample Split:
12'-22' poor recovery, 22'-27' 27'-32', 37'-42', 42'-47', 47'-52', 52'57', 57'-62', 62'-67', then at 5' intervals town to 120' E.O.H.

Purpose: To investigate area of high silica geyserite around hole APBY-1999-10
Hole APBY-2001-29 is 50m west and 50m north of Hole 10

from (m)	to (m)	Code	Description	sample No.	from/to	width (m)	Au (g/t)
0	3.66		**OVERBURDEN**: No Core, Tricone Casing to 12'				
3.66	6.71		**WHITE CHALKY Flow Banded GEYSERITE**: white, punky appearance, Fine grained core very broken, core recovery <50%, relatively soft "carveable", relatively light Core too rubbly to pick accurate contact				
6.71	35.66		**LIGHT GREY COARSE GEYSERITE BRECCIA**: some shearing in upper part of section at 75° to core axis, very vuggy, mostly very siliceous but a few rounded chalky fragments Relatively hard, some sections have small fragments core rubble but recover >98% Traces of small 4-6mm long, isolated pyrite "nodules", most pyrite lenses are rounded but some are controlled by larger fractures Chalky fragments – irregularly spaced				
			Box 3 Small pyrite nodule 16.95m-16.96m, rounded similar nodule at 17.40m-17.41m, 7mm long Hackly fracture common, breakage along fragment boundaries, quite vuggy as a consequence Possible healed shearing at 20.75m at 32° to core axis Minor Dark hairline fractures at 20.12m				
			Box 4 Heterolithic breccia, relatively fine grained, angular frags up to 6mm across, alternating with "autobreccia" sections				

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APPLE BAY PROJECT

HIGH SILICA GEYSERITE ZONE

SECTION: PEM100 Page: 2 of 2 DDH#: APBY-2001-29

from (m)	to (m)	Code	Description	sample No.	from/to	width (m)	Au (g/t)
			Minor fracturing at low angles to core axis Very siliceous				
	Box 5		Core not so fractured 26.50m to 35.00m Distinctly more darker mottling zones				
35.66	36.58 E.O.H.		**WHITE FINE GRAINED CHALKY GEYSERITE**: no fragments, uniform, core very fractured by fractures at low angles to parallel to core axis Ghost textures only just discernable Relatively light, perhaps Al_2O_3 rich Relatively soft compared to upper zones				
			END of HOLE 35.66m. (120 ft)				

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Unit #5 – 2330 Tyner St., Port Coquitlam, B.C. V3C 2Z1

APPLE BAY PROJECT

HIGH SILICA GEYSERITE ZONE

SECTION: PEM100 **Diamond Drill Log** **DDH#:** APBY-2001-30

Northing:
Easting:
Elevation: Approx 408'(124.36m)
Azimuth: 000
Inclination: -90
Grid: PEM100
Length (m): 45.72m (150')
Core size: BQ
Contractor: Boisvenu
Drill Type: Hydraulic Packdrill

Drill Hole survey
Method: Brunton

Azimuth	Dip	Depth
000	-90	collar

Property: Apple Bay
NTS: 92L/12W
Claim: Apple Bay Mining Lease
Date Started: July 23, 2001
Date Completed: July 23, 2001
Logged by: J.T. Shearer, M.Sc., P.Geo.
Sample Split:

Purpose: To investigate area of high silica geyserite around Hole APBY-1999-10
Hole APBY-2001-30 is 50m north of Hole 10

from (m)	to (m)	Code	Description	sample No.	from/to	width (m)	Au (g/t)
0.00	7.62		**OVERBURDEN**: No core, till, boulderly clay, 25 ft. of casing				
7.62	16.46		**WHITE COARSE GEYSERITE BRECCIA**:				
	Box 1		quite oxidized 7.62m-8.84m, minor small pyrite nodules irregularly throughout this zone.				
			Fragments are commonly rounded and diffuse, entire section appears sheared, fracturing parallel to core axis is common.				
			Very siliceous appearance				
			Fresher interval 15.54m-16.15m showing original rhyolitic textures, shard-like fragments.				
16.46	23.62		**SOFT PUNKY-SHEARED CHALKY**				
	Box 2		**GEYSERITE**: white to light grey, relatively soft, matrix dominant, minor gougy intervals, slickensides abundant locally				
	Box 3		Highly sheared starting at 18.20m to 18.44m, will developed slickensides at 40° to core axis, traces of minute pyrite grains along slickensides.				
			Solid but soft chalky section 18.44m to 19.81m then back into very slickensided zone, slickenside parallel to core axis, core relatively soft down to 23.62m				
			Small pyrite nodules up to 3mm in diameter at 23.15m to 23.21m within relatively dark soft zone				
21	29.05		**FINE GRAINED LIGHT GREY CHALKY**				
	Box 4		**GEYSERITE**: matrix dominant, minor vague suggestion of flow banding at 24.90m to 25.10m				
			Minor short fragmental intervals				

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APPLE BAY PROJECT

HIGH SILICA GEYSERITE ZONE

SECTION: PEM100 Page: 2 of 2 DDH#: APBY-2001-30

from (m)	to (m)	Code	Description	sample No.	from/to	width (m)	Au (g/t)
29.05	30.03		**RHYODACITE TUFF**: primary texture very well preserved, probable airfall – welded textures common				
	Box 5		Not bleached, variegated appearance, small angular pyrite nodules at bottom of interval, largest nodule is 5mm square				
30.03	39.37		**CHALKY BLEACHED WELDED TUFF (Chalky Geyserite): white to light grey, matrix dominant** Very well preserved welded lithophase fragments at 21.33m rough alignment-elongation of fragments at 53° to core axis, very minor angular "chert" fragments Entire interval is quite soft, Short section of darker matrix and fragments 35.83m-36,31m White chalky from 36.65m down to 39.37m lower contact core rubbly, recovery in places is low, perhaps due to fault zone				
39.37	45.72 E.O.H.		**COARSE GEYSERITE BRECCIA**: mainly light grey siliceous appearance, large fragments, lighter matrix Sections of interlocking aphanatic fragments (autobrecciation) Minor short chalky matrix dominant intervals, the larges is between 42.67m and 43.59m				

END of HOLE 45.72m (150 ft)

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Unit #5 – 2330 Tyner St., Port Coquitlam, B.C. V3C 2Z1

APPLE BAY PROJECT

HIGH SILICA GEYSERITE ZONE

SECTION: PEM100 **Diamond Drill Log** **DDH#:** APBY-2001-31

Northing:
Easting:
Elevation: Approx 405'(123.44m)
Azimuth: 000
Inclination: -90
Grid: PEM100
Length (m): 45.72m (150')
Core size: BQ
Contractor: Boisvenu
Drill Type: Hydraulic Packdrill

Drill Hole survey
Method: Brunton

Azimuth	Dip	Depth
000	-90	collar

Property: Apple Bay
NTS: 92L/12W
Claim: Apple Bay Mining Lease
Date Started: July 24, 2001
Date Completed: July 24, 2001
Logged by: J.T. Shearer, M.Sc., P.Geo.
Sample Split:
5'-10', 10'-15', 15'-20'
and then at 5' intervals down to 150'

Purpose: To investigate area of high silica geyserite around Hole APBY-1999-10
Hole APBY-2001-31 is 50m north and 50m east of Hole 10

from (m)	to (m)	Code	Description	sample No.	from/to	width (m)	Au (g/t)
0.00	1.52		**OVERBURDEN**: No core, soil, clay rich boulders				
1.52	18.29		**WHITE COARSE GEYSERITE BRECCIA**:				
	Box 1		slightly darker large fragments within lighter matrix, fragments are more vuggy than the matrix areas.				
			Minor small pyrite nodules have weathered out with mesh structures				
			Very siliceous throughout, drusy vugs common				
	Box 2		Minor small pyrite lenses, 1.10-9.11m				
			quartz-pyrite nodule 4mmx9mm plus infilling crackle fractures				
18.29	20.05		**DARK GREY RHYODACITE**				
	Box 4		**FRAGMENTAL**: distinctive darker partially reabsorbed fragments				
20.05	23.77		**CHALKY GEYSERITE Fine Fragmental**:				
	Box 5		with sections of flow banded				

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Unit #5 – 2330 Tyner St., Port Coquitlam, B.C. V3C 2Z1

APPLE BAY PROJECT

HIGH SILICA GEYSERITE ZONE

SECTION: PEM100 Page: 2 of 2 DDH#: APBY-2001-31

from (m)	to (m)	Code	Description	sample No.	from/to	width (m)	Au (g/t)
23.77	33.22		**COARSE GEYSERITE BRECCIA**: mainly coarse fragments, minor contorted flow banded zones				
	Box 6		Short flow banded 29.57-30.04, laminations at 75° to core axis Some sections very vuggy				
33.22	38.25		**VERY CHALKY BLEACHED GEYSERITE**: matrix dominant, Minor coarse fragment zones 36.41m-36.95m.				
38.25	45.72 E.O.H.		**COARSE GEYSERITE BRECCIA**: very siliceous dark grey coarse angular fragments Some very vuggy intervals 39.62m-42.55m Short chalky section 44.30-44.58m, white, soft, powdery				
			END of HOLE 45.72m (150 ft)				

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Unit #5 – 2330 Tyner St., Port Coquitlam, B.C. V3C 2Z1

APPLE BAY PROJECT

HIGH SILICA GEYSERITE ZONE

SECTION: PEM100 **Diamond Drill Log** **DDH#:** APBY-2001-32

Northing: _____
Easting: _____
Elevation: Approx 401'(122.22m)
Azimuth: 000
Inclination: -90
Grid: PEM100
Length (m): 45.72m (150')
Core size: BQ
Contractor: Boisvenu
Drill Type: Hydraulic Packdrill

Drill Hole survey
Method: Brunton

Azimuth	Dip	Depth
000	-90	collar

Property: Apple Bay
NTS: 92L/12W
Claim: Apple Bay Mining Lease
Date Started: July 24, 2001
Date Completed: July 25, 2001
Logged by: J.T. Shearer, M.Sc., P.Geo.
Sample Split:
5'-10', 10'-15', 15'-20',
and then at 5' intervals down to 150'

Purpose: To investigate area of high silica geyserite around Hole APBY-1999-10
Hole APBY-2001-32 is 50m north and 100m east of Hole 10

from (m)	to (m)	Code	Description	sample No.	from/to	width (m)	Au (g/t)
0.00	1.52		**OVERBURDEN**: No Core, soil, broken and weathered rock				
1.52	10.06		**BLEACHED, CHALKY PYRITIC**				
	Box 1		**GEYSERITE**: elongate fragments common, indistinct bleached out Abundant 1mm vugs, punky weathered appearance overall				
	Box 2		Small 3-6mm wide pyrite nodules throughout				
10.06	15.17		**CHALKY GEYSERITE**: with dark wavy fragments, minor flow banded short zones, may not be too chalky, very siliceous appearance Minor 1mm wide pyrite veinlets at 12.72m Chalky intervals appear to be weakly sheared section				
15.17	23.05		**LESS ALTERED RHYODACITE TUFF BRECCIA**: lower kaolin content, well preserved welded textures primary psamite fragments Flow banded matrix common around well rounded fragments at 20.42m-20.70m, also crowded elongated frags down to 23.05m				
	Box 4						
23.05	35.94		**FLOW BANDED BLEACHED CHALKY GEYSERITE**: Rusty coated fracture at 8° to core axis from 23.50m-24.01m, minor small pyrite nodules impinging onto fracture.				
	Box 5		Parts of the interval have flow banded fragments in close packing Some sections are bleached contrasting with soft fresh appearing short sections (25.91m-26.06m)				

HOMEGOLD RESOURCES LTD.

Unit #5 – 2330 Tyner St., Port Coquitlam, B.C. V3C 2Z1

APPLE BAY PROJECT

HIGH SILICA GEYSERITE ZONE

SECTION: PEM100 Page: 2 of 2 DDH#: APBY-2001-32

from (m)	to (m)	Code	Description	sample No.	from/to	width (m)	Au (g/t)
			The geyserite alteration is at 58° to core axis and is relatively sharp, check for Alunite presence				
	Box 6		Core broken into rounded potter shard shapes 32.60m-33.20m				
35.94	45.72		**VERY WHITE CHALKY BLEACHED**				
	E.O.H.		**GEYSERITE**: "carveable", relatively high				
	Box 7		alumina content?				
			Indistinct flow lamination discernable over short sections welded textures also common.				
			Minor small shallow pyrite nodules				
	Box 8		Relatively intensely kaolinitic, chalky				
			A few larger fragments below 41.15m, autobrecciation in the white bleached majority				
			Minor FeO along fractures at 30° to core axis, minor films along fractures becoming more common				
			Poorly developed slickensides at 44.25m at 53° to core axis.				
			Coarse fragments becoming more prominent at 45.35m to end of hole				
			END of HOLE 45.72m (150 ft)				

HOMEGOLD RESOURCES LTD.

Unit #5 – 2330 Tyner St., Port Coquitlam, B.C. V3C 2Z1

APPLE BAY PROJECT

HIGH SILICA GEYSERITE ZONE

SECTION: PEM100 **Diamond Drill Log** **DDH#:** APBY-2001-33

Northing:
Easting:
Elevation:
Azimuth: 000
Inclination: -90
Grid: PEM100
Length (m):
Core size: BQ
Contractor: Boisvenu
Drill Type: Hydraulic Packdrill

Drill Hole survey
Method: Brunton

Azimuth	Dip	Depth
000	-90	collar

Property: Apple Bay
NTS: 92L.12W
Claim: Apple Bay Mining Lease
Date Started: July 26, 2001
Date Completed: July 26, 2001
Logged by: J.T.Shearer, M.Sc., P.Geo.
Sample Split:

Purpose: Infill drilling south and west of Hole APBY-1999-09, chalky section of deposit

from (m)	to (m)	Code	Description	sample No.	from/to	width (m)	Au (g/t)
0.00	10.67		**OVERBURDEN**: Broken Rock, Till, Sand and Gravel casing to 35' (10.67m)				
10.67	30.18		**FLOW BANDED CHALKY GEYSERITE**:				
	Box 1		unusual sub-crop of bedrock and crevasses or cracks filled with clay and sand.				
			Flow laminations at 12.19m at 78° to core axis				
			Possible rusty brown fault 13.72m-14.63m, crushed light brown geyserite above				
			Clay and sand 12.19-12.80m, 12.95-13.50m 15.54-16.15m and short rubbly sections down to 22.25m (73 ft.)				
	Box 2		Grey gouge at 21.03m and 21.55m.				
			Variable angles of flow laminations to 24.38m				
			Minor chalky fragments below 24.99m but still in predominantly flow banded chalky geyserite				
			Flow laminations variable to 10° to core axis at 29.57m				
30.18	34.75		**PYRITIC CHALKY GEYSERITE BRECCIA**:				
	E.O.H.		White fragments in darker grey matrix, pyrite nodules and irregular patches mainly associated with matrix				
			Vuggy.				
			END of HOLE 34.75M (114 feet)				

APPENDIX IV

ASSAY RESULTS

March 15, 2002

14-MAR-01 11:25
Sample: HUSHAMU RED SHALE AP: MAT 14-MAR-01 11:25
Concentrations
File: .\RESULTS\MAT.CFS

SIO2	AL2O3	FE2O3	CAO	MGO	NA2O
53.4%	25.46%	4.80%	2.6%	0.62%	0.32%
K2O	SO3	Cl	P2O5	TIO2	SUM
0.66%	-0.15%	0.006%	0.016%	1.75%	89.5%
C3S	C2S	C3A	C4AF	S/R	A/F
-572.9	585.22	59.35	14.59	1.76	5.30
LIQ	LSF	BI	BF	TALK	LOI FCT.
88.0	1.5	-7.75	14.9	0.76	1.12
SIO2	AL2O3	FE2O3	CAO	MGO	NA2O
59.5%	28.39%	5.35%	2.9%	0.69%	0.36%
K2O	SO3	Cl	P2O5	TIO2	TOTAL
0.76%	-0.17%	0.006	0.018%	1.95%	99.8%
C3S	C2S	C3A	C4AF	S/R	A/F
-638.8	652.55	66.18	16.28	1.76	5.30
LIQ	LSF	BI	BF	TALK	
98.1	1.45	-7.75	14.5	0.85	

HUSHAM 4

Date of s	19-Mar-01												
Project Na	Hushams												
Tilbury ID	ID1	SiO2	Al2O3	Fe2O3	CaO	MgO	Na2O	K2O	SO3	Cl	P2O5	TiO2	Total	TALK
HOI-1	Hush1 (3-10)	53.00	17.66	7.09	5.30	1.67	1.25	1.48	1.16	0.00	0.06	1.06	89.73	2.21
HOI-2	Hush1 (10-15)	52.60	18.62	7.88	4.20	1.80	0.95	1.61	0.96	0.00	0.04	1.13	88.79	2.01
HOI-3	Hush1 (15-20)	49.20	17.56	8.83	5.70	1.85	1.18	1.50	1.26	0.00	0.05	1.24	88.47	2.17
HOI-4	Hush1 (20-25)	52.10	18.20	9.91	2.80	2.05	1.28	1.47	0.79	0.00	0.05	1.22	89.88	2.26
HOI-5	Hush1 (25-30)	52.00	17.71	8.78	3.90	1.96	1.27	1.51	1.14	0.00	0.05	1.06	89.38	2.26
HOI-6	Hush1 (30-35)	48.50	16.79	8.92	6.50	1.76	1.21	1.43	2.82	0.00	0.05	0.89	89.47	2.15
HOI-7	Hush1 (35-40)	48.20	17.35	8.36	7.00	1.66	1.16	1.60	3.12	0.00	0.05	0.95	89.37	2.17
HOI-8	Hush1 (40-45)	52.90	17.66	7.95	4.60	1.83	1.30	1.44	2.86	0.00	0.05	0.81	91.19	2.25
HOI-9	Hush1 (45-50)	56.20	17.84	7.15	3.30	1.77	1.41	1.31	1.83	0.00	0.04	0.79	91.45	2.27
HOI-10	Hush1 (50-55)	50.80	15.83	5.45	9.70	1.13	1.46	0.98	2.69	0.00	0.05	0.92	89.05	2.10
HOI-11	Hush1 (55-60)	53.40	18.23	7.97	4.00	1.57	1.00	1.22	2.34	0.00	0.04	0.87	90.64	1.80
HOI-12	Hush1 (60-65)	56.80	16.97	6.45	3.30	1.51	1.02	1.24	1.39	0.00	0.04	0.88	91.80	1.84
HOI-13	Hush1 (65-70)	55.00	16.86	7.09	3.80	1.53	0.91	1.14	0.85	0.00	0.05	1.00	90.34	1.66
HOI-14	Hush1 (70-75)	60.80	18.02	3.77	5.20	1.16	1.19	0.92	0.13	0.00	0.03	1.11	92.39	1.80
HOI-15	Hush1 (75-80)	53.00	19.66	6.58	5.70	1.34	0.57	0.95	0.00	0.00	0.12	1.02	88.98	1.20
HOI-16	Hush1 (80-85)	52.20	19.20	7.55	5.60	1.32	0.43	0.92	0.00	0.01	0.07	1.12	88.42	1.04
HOI-17	Hush1 (85-90)	52.50	20.22	6.91	3.10	1.27	0.44	0.87	2.20	0.00	0.05	0.96	90.52	1.01
HOI-18	Hush1 (90-95)	56.80	20.19	3.52	5.10	1.14	0.43	0.73	0.07	0.01	0.03	1.10	92.12	0.91
HOI-19	Hush1 (95-100)	52.30	16.25	9.64	7.00	1.10	0.31	0.48	0.00	0.00	0.09	1.26	87.44	0.63
HOI-20	Hush1 (100-105)	61.80	17.64	2.39	6.10	0.86	0.30	0.56	0.00	0.00	0.06	1.07	92.80	0.68
HOI-21	Hush1 (105-110)	58.00	17.93	5.01	7.10	0.99	0.31	0.53	0.00	0.01	0.08	1.05	90.10	0.86
HOI-22	Hush1 (110-115)	53.80	20.52	7.04	4.10	1.15	0.30	0.89	1.47	0.00	0.05	1.02	89.94	0.75
HOI-23	Hush1 (115-120)	52.90	18.66	7.12	5.40	1.18	0.28	0.83	0.35	0.00	0.13	1.02	88.90	0.69
HOI-24	Hush2 (23-30)	54.80	19.24	5.03	6.40	1.16	0.45	0.82	0.39	0.00	0.06	1.07	89.22	0.99
HOI-25	Hush2 (30-35)	52.90	19.66	8.97	2.90	1.31	0.28	0.80	1.57	0.00	0.06	0.94	89.43	0.81
HOI-26	Hush2 (35-40)	53.50	16.73	8.61	5.60	1.21	0.35	0.58	0.00	0.00	0.09	1.03	87.69	0.73
HOI-27	Hush2 (40-45)	56.60	16.93	5.41	7.10	1.04	0.29	0.68	0.14	0.00	0.07	1.08	89.32	0.72
HOI-28	Hush2 (45-50)	46.90	15.66	15.26	6.80	1.38	0.21	0.47	0.08	0.00	0.13	1.05	86.92	0.52
HOI-29	Hush2 (50-55)	58.80	20.80	3.98	4.00	0.99	0.26	0.71	0.63	0.00	0.04	0.91	91.21	0.79
HOI-30	Hush2 (55-60)	55.10	19.96	7.30	2.20	1.78	1.08	1.36	0.24	0.00	0.04	1.04	90.00	1.97
HOI-31	Hush2 (60-70)	55.80	22.05	5.47	2.10	1.36	0.30	0.92	0.00	0.00	0.04	1.11	89.94	0.91
HOI-32	Hush2 (70-75)	54.30	21.25	7.60	2.50	1.35	0.29	0.80	0.00	0.00	0.08	1.03	89.40	0.82
HOI-33	Hush2 (75-80)	49.40	18.09	8.23	7.30	1.16	0.22	0.66	0.27	0.00	0.14	0.92	86.29	0.59
HOI-34	Hush2 (80-85)	55.60	23.13	4.62	3.40	1.07	0.30	0.71	0.62	0.00	0.04	1.02	90.71	0.77
HOI-35	Hush2 (85-90)	57.00	21.34	6.66	2.00	1.22	0.27	0.72	0.00	0.00	0.03	1.01	90.25	0.74
HOI-36	Hush2 (90-95)	53.60	22.81	6.29	3.20	1.20	0.29	0.68	0.03	0.00	0.08	1.13	89.30	0.74
HOI-37	Hush2 (95-100)	54.80	22.40	7.15	1.80	1.27	0.27	0.80	0.00	0.00	0.04	1.06	89.47	0.80
HOI-38	Hush2 (100-105)	48.50	19.01	9.06	5.70	1.21	0.29	0.65	0.00	0.00	0.08	1.24	86.74	0.72
HOI-39	Hush2 (105-110)	53.40	19.69	8.78	5.60	1.09	0.26	0.60	0.00	0.00	0.10	1.12	89.65	0.65
HOI-40	Hush2 (110-115)	55.50	21.73	6.89	3.20	1.13	0.27	0.65	0.00	0.00	0.05	1.12	89.54	0.70
HOI-41	Hush2 (115-120)	55.30	23.79	5.35	2.00	1.11	0.39	0.60	0.00	0.00	0.03	1.10	89.58	0.69
HOI-42	Hush3 (9-15)	52.90	20.07	7.46	2.80	2.06	0.79	1.84	0.86	0.00	0.04	0.96	89.44	1.67
HOI-43	Hush3 (15-20)	54.10	19.47	7.60	3.70	1.66	1.06	1.88	0.26	0.00	0.07	0.88	89.99	2.10
HOI-44	Hush3 (20-25)	50.80	19.03	7.96	4.80	1.80	1.12	1.50	0.36	0.00	0.08	0.91	88.36	2.11
HOI-45	Hush3 (25-30)	51.70	19.14	8.85	3.30	1.97	0.98	1.54	0.59	0.00	0.05	1.00	89.13	1.99
HOI-46	Hush3 (30-35)	50.40	17.92	9.73	3.80	1.97	1.18	1.34	0.70	0.00	0.07	1.19	88.30	2.08
HOI-47	Hush3 (35-40)	47.80	15.20	8.98	8.30	1.68	1.58	1.06	0.12	0.00	0.06	1.40	86.21	2.28
HOI-48	Hush3 (40-45)	52.70	17.23	10.91	2.30	1.88	1.45	1.24	0.21	0.00	0.05	1.30	89.29	2.27
HOI-49	Hush3 (45-50)	54.40	18.63	6.68	1.90	1.84	1.27	1.36	0.18	0.00	0.05	1.12	89.82	2.16
HOI-50	Hush3 (50-55)	55.70	18.88	8.10	1.80	1.81	1.13	1.36	0.11	0.00	0.05	1.06	90.11	2.02
HOI-51	Hush3 (55-60)	54.60	20.62	7.54	3.10	1.26	0.30	0.76	0.05	0.00	0.07	1.03	89.36	0.80
HOI-52	Hush3 (60-65)	52.90	17.94	7.76	4.80	1.76	1.17	1.28	0.40	0.00	0.11	0.93	88.90	2.01
HOI-53	Hush3 (65-70)	53.20	18.70	7.85	4.00	1.71	1.00	1.36	1.28	0.00	0.07	0.97	90.15	1.89

19-Mar-01
Hushamu

ID1	SiO2	Al2O3	Fe2O3	CaO	MgO	Na2O	K2O	SO3	Cl	P2O5	TiO2	Total	TALK
Hush1 (3-10)	53.00	17.68	7.09	5.30	1.67	1.25	1.46	1.16	0.00	0.06	1.06	89.73	2.21
Hush1 (10-15)	52.60	18.52	7.88	4.20	1.90	0.95	1.61	0.96	0.00	0.04	1.13	89.79	2.01
Hush1 (15-20)	49.30	17.56	8.83	5.70	1.85	1.18	1.50	1.26	0.00	0.05	1.24	88.47	2.17
Hush1 (20-25)	52.10	18.20	9.91	2.60	2.05	1.29	1.47	0.79	0.00	0.05	1.22	89.68	2.26
Hush1 (25-30)	52.00	17.71	8.78	3.90	1.96	1.27	1.51	1.14	0.00	0.05	1.06	89.38	2.26
Hush1 (30-35)	48.50	16.79	8.92	6.50	1.76	1.21	1.43	2.82	0.00	0.65	0.89	89.47	2.15
Hush1 (35-40)	48.20	17.35	8.36	7.00	1.66	1.18	1.50	3.12	0.00	0.05	0.95	89.37	2.17
Hush1 (40-45)	52.90	17.56	7.95	4.80	1.63	1.30	1.44	2.85	0.00	0.05	0.91	91.19	2.25
Hush1 (45-50)	56.20	17.64	7.15	3.30	1.77	1.41	1.31	1.63	0.00	0.04	0.79	91.45	2.27
Hush1 (50-55)	50.80	15.83	5.48	9.70	1.13	1.46	0.98	2.69	0.00	0.05	0.92	89.05	2.10
Hush1 (55-60)	53.40	18.23	7.97	4.00	1.57	1.00	1.22	2.34	0.00	0.04	0.87	90.64	1.80
Hush1 (60-65)	56.80	18.97	6.45	3.30	1.51	1.02	1.24	1.39	0.00	0.04	0.88	91.60	1.84
Hush1 (65-70)	55.00	18.88	7.08	3.80	1.53	0.91	1.14	0.95	0.00	0.05	1.00	90.34	1.66
Hush1 (70-75)	60.80	18.02	3.77	5.20	1.16	1.19	0.92	0.13	0.00	0.03	1.11	92.33	1.80
Hush1 (75-80)	53.00	19.66	6.59	5.70	1.34	0.57	0.95	0.00	0.00	0.12	1.02	88.96	1.20
Hush1 (80-85)	52.20	19.20	7.55	5.60	1.32	0.43	0.92	0.00	0.01	0.07	1.12	88.42	1.04
Hush1 (85-90)	52.50	20.22	8.91	3.10	1.27	0.44	0.87	2.20	0.00	0.05	0.96	90.52	1.01
Hush1 (90-95)	59.80	20.19	3.52	5.10	1.14	0.43	0.73	0.07	0.01	0.03	1.10	92.12	0.91
Hush1 (95-100)	52.30	15.25	9.64	7.00	1.10	0.31	0.48	0.00	0.00	0.09	1.26	87.44	0.63
Hush1 (100-105)	61.60	17.64	2.39	8.10	0.86	0.30	0.58	0.00	0.00	0.06	1.07	92.60	0.68
Hush1 (105-110)	58.00	17.03	5.01	7.10	0.99	0.31	0.53	0.00	0.01	0.08	1.05	90.10	0.66
Hush1 (110-115)	53.60	20.52	7.04	4.10	1.15	0.30	0.69	1.47	0.00	0.05	1.02	89.94	0.75
Hush1 (115-120)	52.90	19.88	7.12	5.40	1.18	0.28	0.63	0.35	0.00	0.13	1.02	88.90	0.69

Date [illegible] [illegible]
Project Name [illegible] amples

Tilbury ID	Year	borehole	depth	[illegible]O2	Al2O3	Fe2O3	CaO	MgO	[illegible]	K2O	SO3	Cl	P2O5	[illegible]	Total	TALK
P01-1	2	01	1-10	[illegible]	0.24	0.09	[illegible]	[illegible]	[illegible]	0.00	[illegible]	[illegible]	0.01	0.00	55.34	0.01
P01-[illegible]	2[illegible]	01	10-20	[illegible]	0.25	[illegible]	[illegible]	[illegible]	[illegible]	0.00	[illegible]	[illegible]	0.01	[illegible]	56.05	0.00
P01-3		01	20-30	0.00	0.18	0.04	55.60	[illegible]	0.00	0.00	[illegible]	0.00	0.01	[illegible]	55.98	0.00
P01-[illegible]	2001	01	30-40	0.00	0.15	0.02	55.60	0.13	0.00	0.00	0.00	0.01	0.01	0.00	55.91	0.00
P01-[illegible]		01	40-50	[illegible]	0.18	[illegible]	55.1[illegible]	[illegible]	0.00	0.00	0.00	[illegible]	0.01	0.00	55.84	0.00
P01-[illegible]		01	50-60	[illegible]	0.18	0.05	54.50	[illegible]	0.00	[illegible]	[illegible]	[illegible]	0.02	0.00	55.82	0.00
P01-7	2001	01	60-70	[illegible]	0.15	[illegible]	53.3[illegible]	1.6[illegible]	0.01	0.00	[illegible]	[illegible]	0.02	0.00	55.20	0.01
P01-[illegible]	2001	01	70-80	0.1[illegible]	0.18	[illegible]	5[illegible].5[illegible]	[illegible]	0.01	[illegible]	0.00	[illegible]	0.03	[illegible]	55.62	0.01
P01-[illegible]	2001	01	80-90	[illegible]	0.17	0.05	52.8[illegible]	2.05	0.0[illegible]	[illegible]	0.00	[illegible]	[illegible]	[illegible]	55.13	0.02
P01-10	2001	01	90-100	[illegible]	0.21	0.0[illegible]	[illegible]	1.7[illegible]	[illegible]	[illegible]	[illegible]	0.01	[illegible]	0.00	55.26	0.01
P01-11		01	100-110	[illegible]	0.17	0.03	[illegible]	2.2[illegible]	0.02	[illegible]	[illegible]	[illegible]	[illegible]	0.00	55.16	0.02
P01-12	2001	01	110-122	[illegible]	0.16	[illegible]	[illegible]	2.44	0.02	[illegible]	[illegible]	[illegible]	0.01	[illegible]	56.02	0.02
[illegible]	2001	02	0-10	[illegible]	0.18	0.05	55.30	0.23	0.01	0.00	0.00	[illegible]	0.01	[illegible]	55.88	0.01
	2001	02	10-20	[illegible]	0.15	0.05	[illegible]	[illegible]	0.00	[illegible]	[illegible]	0.01	0.01	0.00	55.45	0.00
[illegible]		02	20-30	[illegible]	0.19	[illegible]	52.90	1.[illegible]	0.01	0.00	0.00	0.01	0.01	[illegible]	55.01	0.01
[illegible]		02	30-40	[illegible]	0.25	0.12	[illegible].10	[illegible]	0.00	0.00	0.05	0.01	0.03	[illegible]	55.35	0.00
		02	40-50	0.00	0.18	0.04	[illegible].70	[illegible]	0.01	0.00	[illegible]	0.01	0.03	[illegible]	55.56	0.01
		02	50-60	[illegible]	0.16	0.04	54.50	[illegible]	0.00	0.00	0.00	0.01	0.02	[illegible]	[illegible]	0.00
		02	60-70	[illegible]	0.19	0.04	[illegible].70	0.41	[illegible]	0.00	[illegible]	0.01	0.01	[illegible]	55.58	[illegible]
		02	70-80	[illegible]	0.41	0.05	[illegible].10	[illegible]	[illegible]	0.00	[illegible]	0.01	0.01	0.01	55.48	0.01
		02	80-90	1.00	0.24	0.05	54.50	[illegible]	0.01	0.00	0.00	0.01	0.01	0.0[illegible]	56.12	0.01
		02	90-100	0.00	0.18	0.03	55.20	0.27	0.00	0.00	0.00	0.00	0.01	0.0[illegible]	55.67	0.00
[illegible]		02	100-110	0.50	[illegible]	[illegible]	54.5[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	0.01	[illegible]	55.65	0.00
[illegible]		02	110-120	[illegible]	0.20	[illegible]	[illegible]	1.27	[illegible]	[illegible]	[illegible]	0.01	0.01	[illegible]	55.14	0.01
[illegible]		02	120-130	[illegible]	[illegible]	[illegible]	[illegible]	0.97	0.00	[illegible]	0.00	0.01	0.01	[illegible]	55.62	0.00
P01-26	2001	02	130-140	[illegible]	0.16	[illegible]	[illegible]	0.36	[illegible]	[illegible]	[illegible]	0.01	0.01	[illegible]	55.46	0.00
P01-27	[illegible]	02	140-150	[illegible]	0.14	[illegible]	54.[illegible]	0.29	[illegible]	[illegible]	0.00	0.01	0.01	[illegible]	55.28	0.00
[illegible]	2001	02	150-160	[illegible]	0.20	[illegible]	[illegible].70	0.30	0.01	0.00	0.00	0.01	0.01	[illegible]	55.28	0.01
[illegible]	2001	02	160-170	[illegible]	0.13	0.03	55.20	0.29	[illegible]	0.00	[illegible]	0.01	0.01	[illegible]	55.65	0.00
[illegible]	2001	02	170-180	[illegible]	0.15	[illegible]	55.4[illegible]	0.19	0.01	0.00	[illegible]	0.01	0.01	[illegible].00	55.77	0.01
	[illegible]	02	180-190	[illegible]	0.15	[illegible]	[illegible]	0.24	[illegible]	0.00	[illegible]	0.01	0.01	[illegible]	55.72	0.00
[illegible]		02	190-200	[illegible]	[illegible]	0.03	[illegible]	0.24	0.00	0.00	[illegible]	0.01	0.01	0.00	55.53	0.00
[illegible]	[illegible]	02	200-210	[illegible]	[illegible]	[illegible]	54.[illegible]	0.22	[illegible]	0.01	[illegible]	0.01	0.01	0.00	55.43	0.02
[illegible]	[illegible]	02	210-220	[illegible]	[illegible]	[illegible]	55.1[illegible]	0.20	[illegible]	0.00	[illegible]	0.01	0.01	[illegible]	[illegible].48	0.00

P01-[illegible]
P01-[illegible]
P01-[illegible]
P01-60
P01-[illegible]
P01-62
P01-63
P01-64
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P01-67
P01-68
P01-59
P01-60
P01-61
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P01-64
P01-65
P01-66
P01-67
P01-68

LST

Date of sample: 4-Apr-01
Project Name: hushamu 2nd batch

Tilbury ID	ID1		SiO2	Al2O3	Fe2O3	CaO	MgO	Na2O	K2O	SO3	Cl	P2O5	TiO2	Total	TALK
O01-1	Hush 3	70-75	52.00	20.05	7.73	3.60	1.68	0.63	1.46	1.70	0.00	0.04	0.95	90.05	1.79
O01-2	Hush 3	75-80	51.60	19.76	8.60	3.20	1.64	0.80	1.85	1.11	0.00	0.11	1.04	89.12	1.89
O01-3	Hush 3	80-85	51.10	19.25	8.65	3.70	1.57	0.71	1.42	1.05	0.00	0.04	1.06	88.75	1.84
O01-4	Hush 3	85-90	51.50	18.85	8.07	4.40	1.57	0.66	1.54	0.94	0.00	0.03	1.02	88.61	1.89
O01-5	Hush 3	90-95	50.40	17.43	9.21	4.50	1.66	1.24	1.38	0.98	0.00	0.05	1.22	88.06	2.15
O01-6	Hush 3	95-100	46.80	15.55	8.17	11.00	1.39	1.32	1.37	0.00	0.00	0.10	0.91	84.61	2.22
O01-7	Hush 3	100-105	52.20	16.50	8.31	4.60	1.59	1.74	1.25	0.99	0.00	0.05	1.06	88.91	2.56
O01-8	Hush 3	105-110	55.10	16.86	9.07	2.50	1.78	1.87	1.24	0.04	0.00	0.04	1.01	89.51	2.69
O01-9	Hush 3	110-115	55.70	17.01	9.77	2.10	1.70	1.92	1.35	0.46	0.00	0.03	0.91	90.05	2.81
O01-10	Hush 3	115-120	53.30	16.06	7.33	5.60	5.60	1.63	1.93	1.23	0.26	0.04	0.68	93.86	2.90
O01-11	Hush 3	120-125	53.50	15.47	7.99	5.60	1.63	2.00	1.02	0.08	0.00	0.04	1.19	88.64	2.67
O01-12	Hush 3	125-130	53.20	15.30	8.27	5.10	5.45	1.68	1.06	0.06	0.00	0.06	0.55	87.62	2.52
O01-13	Hush 3	130-135	54.70	17.43	9.41	2.00	1.85	1.44	1.48	0.73	0.00	0.05	1.12	90.21	2.41
O01-14	Hush 3	135-140	53.10	16.24	10.49	1.80	2.01	1.13	1.55	0.43	0.00	0.04	1.20	89.79	2.15
O01-15	Hush 3	140-145	47.90	16.24	11.44	5.10	1.87	1.25	1.32	0.29	0.00	0.08	1.35	86.84	2.12
O01-16	Hush 3	145-150	51.10	17.14	11.69	2.30	1.99	1.50	1.44	0.55	0.00	0.06	1.22	88.79	2.46
O01-17	Hush 3	150-155	50.60	17.11	8.00	5.60	1.84	1.38	1.67	0.09	0.00	0.08	1.08	87.35	2.43
O01-18	Hush 3	155-160	52.00	17.35	9.44	3.30	1.94	1.34	1.58	0.32	0.00	0.06	1.06	88.39	2.36
O01-19	Hush 3	160-165	51.50	18.00	9.12	3.40	1.98	1.19	1.67	0.13	0.00	0.06	1.04	87.89	2.29
O01-20	Hush 3	165-170	48.60	16.44	7.67	7.80	1.69	1.22	1.48	0.02	0.00	0.05	1.01	86.11	2.19
O01-21	Hush 3	170-175	51.60	18.94	9.37	2.80	1.80	1.17	1.61	1.12	0.00	0.04	1.06	89.33	2.23
O01-22	Hush 3	175-180	55.10	17.45	7.69	2.80	2.80	1.35	1.51	1.29	0.58	0.00	0.95	91.13	2.85
O01-23	Hush 3	180-185	53.80	16.55	5.27	7.10	1.45	1.54	1.16	0.12	0.00	0.05	0.98	88.03	2.30
O01-24	Hush 3	185-190	51.30	16.70	8.31	5.40	1.45	1.21	1.17	3.02	0.00	0.05	0.81	89.42	1.98
O01-25	Hush 3	190-195	49.70	16.20	7.95	9.20	1.58	0.53	1.31	2.41	0.00	0.05	1.06	90.46	1.79
O01-26	Hush 3	195-200	57.30	18.17	6.94	2.60	1.47	1.06	1.14	1.03	0.00	0.03	0.99	90.75	1.83
O01-27	Hush 3	200-205	54.30	17.04	6.02	4.80	1.44	0.96	0.86	0.16	0.00	0.05	0.86	86.51	1.53
O01-28	Hush 3	205-210	55.60	17.83	8.95	5.50	1.24	0.66	0.93	0.58	0.00	0.06	0.89	89.59	1.29
O01-29	Hush 3	210-215	55.90	17.93	5.19	6.50	1.24	0.47	0.79	0.09	0.00	0.05	1.19	89.35	0.99
O01-30	Hush 3	215-220	47.00	13.39	12.41	7.40	1.25	0.38	0.52	0.11	0.00	0.10	1.00	85.55	0.70
O01-31	Hush 4	11-15	60.70	16.94	5.68	3.50	1.14	1.20	0.85	0.00	0.00	0.05	0.99	91.05	1.76
O01-32	Hush 4	15-20	60.10	16.66	6.37	4.50	1.38	1.05	0.77	0.02	0.00	0.11	0.99	88.02	1.56
O01-33	Hush 4	20-25	53.80	18.41	6.28	5.00	1.31	0.63	0.96	0.51	0.00	0.07	1.00	88.97	1.26
O01-34	Hush 4	25-30	53.40	19.66	6.57	2.60	1.40	0.39	0.96	0.00	0.00	0.07	1.02	86.51	1.03
O01-35	Hush 4	30-35	51.70	18.97	8.94	4.50	1.27	0.43	0.82	0.63	0.00	0.12	0.99	88.37	0.97
O01-36	Hush 4	35-40	50.60	17.34	11.38	4.20	1.25	0.39	0.65	0.17	0.00	0.09	1.18	87.25	0.82
O01-37	Hush 4	40-45	54.30	16.32	6.34	6.90	0.98	0.47	0.57	0.05	0.00	0.06	1.60	87.49	0.85
O01-38	Hush 4	45-50	54.00	15.96	8.10	6.30	0.96	0.41	0.51	0.00	0.00	0.07	0.96	87.27	0.75
O01-39	Hush 4	50-55	55.40	17.66	8.34	4.20	1.10	0.36	0.63	0.00	0.00	0.09	1.08	88.76	0.71
O01-40	Hush 4	55-60	48.30	16.14	8.71	10.10	0.95	0.26	0.41	0.00	0.00	0.12	0.92	84.91	0.53
O01-41	Hush 4	60-65	53.70	20.15	5.48	6.30	1.01	0.32	0.59	0.20	0.00	0.05	1.11	88.91	0.71
O01-42	Hush 4	65-70	54.70	21.96	5.91	3.00	1.18	0.32	0.71	0.00	0.00	0.04	1.14	89.91	0.79
O01-43	Hush 4	70-75	53.90	21.09	7.74	3.10	1.18	0.29	0.64	0.00	0.00	0.07	1.05	89.05	0.71
O01-44	Hush 4	75-80	49.30	18.11	7.51	8.80	0.96	0.24	0.43	0.51	0.00	0.13	0.93	86.42	0.52
O01-45	Hush 4	80-85	55.60	22.40	5.85	2.90	1.06	0.29	0.59	0.00	0.00	0.04	1.01	89.73	0.68
O01-46	Hush 4	85-90	51.70	20.51	9.30	3.80	1.06	0.26	0.65	0.00	0.00	0.16	0.99	88.43	0.69
O01-47	Hush 4	90-95	57.10	22.40	5.55	2.40	1.00	0.27	0.62	0.00	0.00	0.04	1.12	90.50	0.68
O01-48	Hush 4	95-100	46.40	17.38	12.69	6.70	0.98	0.20	0.36	0.00	0.00	0.15	1.05	85.91	0.44
O01-49	Hush 4	100-105	53.50	21.60	5.63	5.30	0.94	0.27	0.47	0.00	0.00	0.06	1.08	88.85	0.58
O01-50	Hush 4	105-110	56.70	23.45	5.43	2.50	0.95	0.28	0.46	0.00	0.00	0.04	1.13	89.90	0.60
O01-51	Hush 4	110-115	49.10	23.34	7.21	4.90	0.77	0.26	0.38	0.02	0.00	0.12	1.20	87.30	0.51
O01-52	Hush 4	115-120	52.60	26.87	4.59	2.90	0.60	0.29	0.53	0.00	0.00	0.02	0.81	89.21	0.64
O01-53	Hush 4	120-125	55.30	21.35	7.64	3.60	0.68	0.29	0.73	0.00	0.00	0.02	1.10	90.69	0.77
O01-54	Hush 4	125-130	51.10	24.99	7.55	2.30	0.61	0.31	0.73	0.00	0.00	0.03	1.66	89.36	0.79
O01-55	Hush 4	130-135	52.90	25.46	5.97	2.30	0.60	0.32	0.74	0.00	0.00	0.03	1.65	89.97	0.61
O01-56	Hush 4	135-140	54.30	23.24	7.04	2.40	0.65	0.30	0.63	0.00	0.00	0.02	1.84	90.42	0.71
O01-57	Hush 4	140-145	49.50	22.78	11.04	2.30	0.71	0.31	0.94	0.00	0.00	0.04	1.76	89.36	0.93
O01-58	Hush 4	145-150	51.20	21.94	10.29	2.50	0.76	0.31	1.03	0.00	0.00	0.02	1.70	89.75	0.99
O01-59	Hush 4	150-155	54.80	19.41	11.11	2.30	0.82	0.31	1.25	0.00	0.00	0.02	1.29	91.31	1.13
			52.77	**20.56**	**7.88**			**0.35**	**0.67**						**0.79**
O01-60	Hush 5	33-40	53.90	20.11	7.53	4.10	1.14	0.16	0.56	0.00	0.00	0.07	1.06	88.63	0.53

O01-61	Hush 5	40-45	50.80	19.03	9.44	5.00	1.12	0.15	0.52	0.17	0.00	0.13	0.93	87.29	0.49
O01-62	Hush 5	45-50	51.60	17.67	11.03	4.40	0.72	0.16	0.39	0.73	0.00	0.19	0.71	87.50	0.42
O01-63	Hush 5	50-55	54.60	22.11	7.19	2.50	1.01	0.20	0.51	0.03	0.00	0.05	1.05	89.25	0.54
O01-64	Hush 5	55-60	53.90	21.42	9.90	4.50	1.08	0.21	0.50	0.00	0.00	0.16	1.10	88.87	0.54
O01-65	Hush 5	60-65	55.40	24.20	6.13	2.50	0.93	0.25	0.45	0.36	0.00	0.09	1.12	89.43	0.55
O01-66	Hush 5	65-70	49.60	21.85	9.76	3.20	0.94	0.25	0.35	1.07	0.00	0.19	0.99	88.21	0.49
O01-67	Hush 5	70-75	54.80	24.50	5.28	2.10	0.90	0.26	0.41	1.00	0.00	0.05	0.99	90.29	0.53
O01-68	Hush 5	75-80	40.20	16.77	13.03	10.60	0.87	0.18	0.37	0.02	0.00	0.23	0.86	83.13	0.42
O01-69	Hush 5	80-85	52.50	19.84	7.04	5.70	1.01	0.22	0.50	0.00	0.00	0.12	0.99	87.92	0.55
O01-70	Hush 5	85-90	53.30	22.29	6.17	3.60	1.01	0.23	0.48	0.03	0.00	0.16	1.06	88.37	0.55
O01-71	Hush 5	90-95	54.10	23.95	3.30	4.10	0.86	0.23	0.33	0.46	0.00	0.04	0.93	88.13	0.45
O01-72	Hush 5	95-100	55.30	22.61	5.46	3.40	0.78	0.22	0.39	0.05	0.00	0.07	1.11	89.36	0.48
O01-73	Hush 5	100-105	51.20	25.42	2.41	3.30	0.50	0.23	0.22	0.93	0.01	0.02	0.84	85.06	0.37
O01-74	Hush 5	105-110	46.50	19.18	9.84	7.60	0.58	0.18	0.26	0.00	0.00	0.19	0.94	85.27	0.35
O01-75	Hush 5	110-115	46.40	17.90	11.25	7.50	0.54	0.16	0.20	0.11	0.00	0.09	0.86	85.00	0.29
O01-76	Hush 5	115-120	51.70	23.30	5.85	4.00	0.56	0.21	0.19	0.88	0.00	0.06	0.97	87.72	0.34
O01-77	x		51.38	21.30	7.47			0.21	0.39						0.46
O01-78	x														
O01-79	x														
O01-80	Hush 6	42-48	52.20	20.25	6.10	4.00	1.23	0.19	0.71	0.00	0.00	0.06	1.25	87.99	0.66
O01-81	Hush 6	48-55	57.20	21.80	5.09	3.30	1.15	0.20	0.71	0.00	0.00	0.04	1.23	90.72	0.67

WFP LOG DUMP HOUBERG INLET

TILBURY CEMENT LIMITED 16-OCT-99 13:09

Sample: W.P. AP: MAT 16-OCT-99 13:08
Concentrations
File: DISK$USER1:[X40.X46]MAT.CFS

SiO2	Al2O3	Fe2O3	CaO	MgO	Na2O
50.24%	15.71%	9.74%	5.32%	2.03%	1.99%
K2O	SO3	Cl	P2O5	TiO2	SUM
1.14%	-0.01%	0.018%	0.096%	1.21%	87.580%
C3S	C2S	C3A	C4AF	S/R	A/F
-479.63	505.86	25.16	29.60	1.97	1.61
LIO	LSF	BI	BF	TALK	LOI FCT.
73.06	3.23	-0.76	8.67	2.74	1.140

SiO2	Al2O3	Fe2O3	CaO	MgO	Na2O
57.25%	17.90%	11.09%	6.06%	2.31%	2.27%
K2O	SO3	Cl-	P2O5	TiO2	TOTAL
1.30%	-0.01%	0.021	0.112%	1.49%	99.800%
C3S	C2S	C3A	C4AF	S/R	A/F
-546.55	576.45	28.67	33.76	1.97	1.61
LIO	LSF	BI	BF	TALK	
83.26	3.23	-0.75	6.68	3.12	

HIGH SILICA . DRILL PROGRAM.

U01	1	9/100-110	84.01	14.57	0.53	1.39	0.06	.11	-0.02	0.20	0.0	1.12	0.10	0.04	99.38
U01	2	9/110-120	75.26	21.36	0.52	1.04	0.14	0.16	-0.01	0.11	0.03	1.11	0.16	0.04	99.38
U01	3	9/120-130	69.57	25.94	0.51	0.90	0.18	0.18	-0.03	0.01	0.00	0.72	0.17	0.04	99.38
U01	4	9/130-140	70.26	25.82	0.45	0.75	0.16	0.19	-0.03	0.01	0.00	0.85	0.16	0.04	99.38
U01	5	30/25-35	97.92	1.54	0.71	0.53	-0.01	0.01	-0.10	-0.08	0.01	0.77	-0.06	0.04	99.38
U01	6	30/35-45	98.50	1.24	0.60	0.57	-0.02	0.01	-0.10	-0.14	0.00	0.68	-0.07	0.04	99.38
U01	7	30/45-55	99.33	0.49	0.51	0.51	-0.03	0.03	-0.10	0.15	-0.01	0.86	-0.09	0.04	99.38
U01	8	30/55-65	87.13	14.34	0.19	0.43	0.07	0.10	-0.02	0.09	0.00	1.44	0.09	0.04	99.38
U01	9	30/65-75	77.10	24.07	0.01	0.67	0.13	0.19	-0.07	0.08	0.00	1.58	0.14	0.04	98.72
U01	10	30/75-85	94.85	6.84	0.24	0.60	0.02	0.04	-0.06	-0.01	-0.01	1.31	-0.01	0.04	98.72
U01	11	30/85-95	85.97	0.87	0.39	0.22	-0.04	0.01	-0.09	0.14	-0.01	0.52	-0.07	0.04	98.72
U01	12	30/95-105	90.31	11.55	0.41	0.51	0.05	0.07	-0.08	0.42	0.01	1.85	0.02	0.04	98.72
U01	13	30/105-115	92.13	11.19	0.11	0.52	0.04	0.07	-0.08	0.02	-0.01	1.49	0.02	0.04	98.72
U01	14	30/115-125	90.35	0.83	0.24	0.27	-0.03	0.01	-0.09	-0.12	0.00	0.95	-0.05	0.04	98.72
U01	15	30/125-135	99.67	0.49	0.30	0.45	-0.02	0.01	-0.10	0.08	0.00	1.00	-0.08	0.04	98.72
U01	16	31/3-15	98.46	0.56	0.42	0.51	0.01	0.01	-0.06	-0.14	0.01	0.57	-0.05	0.04	98.51
U01	16	30/135-145	101.90	0.50	0.22	0.45	-0.03	0.03	-0.10	-0.16	0.01	1.07	-0.10	0.04	98.72
U01	17	30/145-160	100.39	0.47	0.23	0.45	-0.03	0.03	-0.10	0.16	0.01	0.82	-0.10	0.04	98.72
U01	19	31/15-25	98.85	0.36	0.35	0.22	-0.03	0.03	-0.10	-0.17	0.00	0.79	-0.10	0.04	98.51
	AVERAGE		99.12	8.58	0.37	0.60	0.03	0.05	-0.07	0.13	0.00	1.05	0.00	0.04	98.98
	MAX		101.90	25.94	0.71	1.39	0.18	0.19	-0.01	0.42	0.03	1.85	0.17	0.04	99.38
	MIN		69.57	0.36	0.01	0.22	-0.04	-0.03	-0.10	-0.17	0.01	0.65	-0.10	0.04	98.51

UC1

project #	sample id		hole #	depth	SIO2	AL2O3	FE2O3	CAO	MGO	NA2O	K2O	SO3	CL	TIO2	TALK	P2O5	Total	SO3(LECO)
U01	1	PEM100	9	100-110	84.01	14.57	0.53	1.39	0.08	0.11	-0.02	0.00	0.01	1.14	0.10	0.04	99.38	0.22
U01	2	PEM100	9	110-120	75.26	21.38	0.52	1.04	0.14	0.16	-0.01	0.11	0.00	1.11	0.16	0.04	99.38	0.40
U01	3	PEM100	9	120-130	69.57	25.94	0.51	0.90	0.16	0.18	-0.03	-0.01	0.00	0.72	0.17	0.04	99.38	0.27
U01	4	PEM100	9	130-140	70.26	25.82	0.45	0.75	0.16	0.19	-0.03	-0.01	0.00	0.65	0.16	0.04	99.38	0.25
U01	5	PEM100	30	25-35	97.92	1.54	0.71	0.53	-0.01	-0.01	-0.10	-0.08	-0.01	0.77	-0.08	0.04	99.38	0.17
U01	6	PEM100	30	35-45	96.60	1.24	0.60	0.57	-0.02	-0.01	-0.10	-0.14	0.00	0.68	-0.07	0.04	99.38	0.02
U01	7	PEM100	30	45-55	99.33	0.49	0.51	0.51	-0.03	-0.03	-0.10	-0.15	-0.01	0.86	-0.09	0.04	99.38	0.05
U01	8	PEM100	30	55-65	87.13	14.34	0.19	0.63	0.07	0.10	-0.02	0.09	0.00	1.44	0.09	0.04	99.38	0.60
U01	9	PEM100	30	65-75	77.10	24.07	0.01	0.67	0.13	0.19	-0.07	0.08	0.00	1.56	0.14	0.04	98.72	0.52
U01	10	PEM100	30	75-85	94.85	6.84	0.24	0.60	0.02	0.04	-0.06	-0.01	-0.01	1.31	-0.01	0.04	98.72	0.27
U01	11	PEM100	30	85-95	85.87	0.87	0.39	0.22	-0.04	-0.01	-0.09	-0.14	-0.01	0.92	-0.07	0.04	98.72	0.10
U01	12	PEM100	30	95-105	90.31	11.55	0.41	0.51	0.05	0.07	-0.06	0.42	-0.01	1.85	0.02	0.04	98.72	1.27
U01	13	PEM100	30	105-115	92.13	11.19	0.11	0.62	0.04	0.07	-0.06	0.02	-0.01	1.45	0.02	0.04	98.72	0.35
U01	14	PEM100	30	115-125	90.35	0.83	0.24	0.27	-0.03	0.01	-0.09	-0.12	0.00	0.85	-0.05	0.04	98.72	0.15
U01	15	PEM100	30	125-135	89.87	0.49	0.30	0.45	-0.02	-0.01	-0.10	-0.06	0.00	1.03	-0.08	0.04	98.72	0.22
U01	16	PEM100	30	135-145	101.90	0.50	0.22	0.45	-0.03	-0.03	-0.10	-0.16	-0.01	1.02	-0.10	0.04	98.72	<0.02
U01	17	PEM100	30	145-150	100.39	0.47	0.23	0.45	-0.03	-0.03	-0.10	-0.16	-0.01	0.82	-0.10	0.04	98.72	<0.02
U01	18	PEM100	31	5-15	96.46	0.56	0.42	0.81	0.01	-0.01	-0.06	-0.14	0.01	0.91	-0.05	0.04	98.61	<0.02
U01	19	PEM100	31	15-25	96.85	0.35	0.35	0.22	-0.03	-0.03	-0.10	-0.17	0.00	0.76	-0.10	0.04	98.61	<0.02
				Fused beads from here down - note SO3 fused bead match with LECO														
U01	20	PEM100	31	25-35														0.02
U01	21	PEM100	31	35-45	101.85	0.43	0.23	0.37	-0.02	-0.09	0.02	0.16	0.39	0.71	-0.07	0.10	104.18	0.05
U01	22	PEM100	31	45-55	96.90	0.49	0.36	0.14	-0.07	-0.11	0.02	0.07	0.07	0.88	-0.10	0.08	98.84	0.10
U01	23	PEM100	31	55-65														0.17
U01	24	PEM100	31	65-75	94.76	0.28	0.44	0.03	-0.09	-0.07	0.03	0.13	0.36	0.77	-0.05	0.07	98.69	0.22
U01	25	PEM100	31	75-85	96.21	0.57	0.36	0.04	-0.09	-0.16	0.03	0.04	0.04	0.80	-0.14	0.07	97.91	0.02
U01	26	PEM100	31	85-95	97.98	0.20	0.26	-0.07	-0.15	-0.15	0.02	0.11	0.03	0.82	-0.13	0.08	99.14	0.10
U01	27	PEM100	31	95-105	98.15	0.21	0.13	-0.05	-0.14	-0.17	0.02	0.02	0.04	0.72	-0.16	0.09	98.89	<0.02
U01	28	PEM100	31	105-115	97.32	0.28	0.18	-0.06	-0.15	-0.19	0.02	0.02	0.03	0.82	-0.18	0.08	98.15	<0.02
U01	29	PEM100	31	115-125	96.79	0.25	0.31	-0.06	-0.17	-0.18	0.02	0.06	0.03	0.86	-0.17	0.06	98.80	0.05
U01	30	PEM100	31	125-135	96.79	0.21	0.46	-0.07	-0.16	-0.17	0.02	0.53	0.03	0.77	-0.16	0.06	98.50	0.55
U01	31	PEM100	31	135-145	92.67	0.24	0.24	-0.10	-0.19	-0.24	0.02	0.30	0.02	0.66	-0.23	0.07	93.70	0.37
U01	32	PEM100	31	145-150	96.93	0.33	0.55	-0.08	-0.13	-0.21	0.02	0.62	0.03	0.86	-0.20	0.06	98.78	0.60
U01	33	PEM100	32	5-15	97.42	0.25	0.39	-0.06	-0.16	-0.21	0.01	0.04	0.03	0.76	-0.20	0.06	98.55	0.07
U01	34	PEM100	32	15-25	92.52	0.35	0.35	-0.06	-0.16	-0.22	0.01	0.03	0.02	0.69	-0.21	0.06	93.59	0.02
U01	35	PEM100	32	25-35	90.81	0.51	0.19	-0.09	-0.22	-0.25	0.01	0.09	0.03	0.82	-0.24	0.07	91.77	0.10
U01	36	PEM100	32	35-45	94.19	1.56	0.43	-0.02	0.02	-0.21	0.02	0.34	0.05	0.90	-0.20	0.06	97.35	0.37
U01	37	PEM100	32	45-55	94.91	1.26	0.80	-0.03	-0.05	-0.23	0.02	1.32	0.03	0.78	-0.21	0.06	98.92	1.32
U01	38	PEM100	32	55-65	97.40	0.94	0.23	-0.06	-0.22	-0.24	0.02	0.31	0.02	0.80	-0.23	0.10	99.30	0.35
U01	39	PEM100	32	65-75	83.19	10.17	0.09	-0.04	0.04	-0.19	0.02	0.13	0.03	0.67	-0.18	0.13	94.23	0.20
U01	40	PEM100	32	75-85	71.86	17.64	0.46	0.01	0.06	-0.14	0.02	0.61	0.04	0.86	-0.13	0.17	91.78	0.67
U01	41	PEM100	32	85-95	69.02	21.68	0.21	-0.02	0.07	-0.21	0.02	0.39	0.03	0.64	-0.19	0.13	91.88	0.42
U01	42	PEM100	32	95-105	79.57	11.24	0.12	0.21	-0.12	-0.03	0.03	0.35	0.06	0.56	-0.01	0.14	92.11	0.35
U01	43	PEM100	32	105-115	82.92	1.80	0.18	-0.08	-0.22	-0.24	0.03	0.23	0.04	0.70	-0.22	0.11	84.67	0.30
U01	44	PEM100	32	115-125	91.71	3.68	0.06	0.65	-0.04	-0.20	0.03	0.17	0.03	0.70	-0.18	0.17	96.86	0.20
U01	45	PEM100	32	125-135	91.01	3.68	0.07	0.48	-0.04	-0.23	0.03	0.13	0.03	0.86	-0.21	0.19	96.18	0.15
U01	46	PEM100	32	135-145	82.68	2.11	0.33	0.56	-0.23	-0.26	0.03	0.35	0.03	0.75	-0.24	0.14	86.50	0.47
U01	47	PEM100	32	145-150	90.53	0.59	0.43	1.09	-0.10	-0.22	0.03	0.76	0.03	1.15	-0.20	0.11	94.41	0.85

TABLE - DRILLHOLE DATA

				ROCK	LECO S %	SiO2 %	Al2O3 %	Fe2O3 %	CaO %	MgO %	Na2O %	K2O %	Over-ride SO3 %	Calculated SO3C %	P2O5 %	TiO2 %
AB99-01	9596.30	7685.30	115.00	0.00	-90.000	30.49										
AB99-01																
AB99-01	0.00	4.57	4.57	WCG	0.040	80.93	12.36	0.38	0.07	0.01	0.01	0.05	-1.00	0.10	0.13	0.83
AB99-01	4.57	6.10	1.53	WCG	0.170	86.92	7.23	1.27	0.03	0.01	0.01	0.04	-1.00	0.42	0.09	0.80
AB99-01	6.10	7.62	1.52	WCG	0.150	81.04	11.30	0.52	0.03	0.01	0.01	0.04	-1.00	0.37	0.07	0.94
AB99-01	7.62	10.67	3.05	WCG	0.230	70.09	19.96	0.43	0.05	0.01	0.01	0.05	-1.00	0.57	0.07	0.67
AB99-01	10.67	12.20	1.53	WCG	0.040	76.66	15.36	0.21	0.03	0.01	0.07	0.06	-1.00	0.10	0.04	0.71
AB99-01	12.20	13.57	1.37	GFR	0.100	73.72	17.52	0.91	0.05	0.01	0.01	0.05	-1.00	0.25	0.08	0.75
AB99-01	13.57	17.38	3.81	WCG	0.060	64.11	19.26	7.46	0.09	0.06	0.01	0.05	-1.00	0.15	0.13	0.81
AB99-01	17.38	21.34	3.96	WCG	0.280	79.75	12.79	1.11	0.08	0.01	0.01	0.05	-1.00	0.70	0.07	0.60
AB99-01	21.34	23.17	1.83	WCG	0.100	73.13	17.61	0.77	0.06	0.01	0.01	0.05	-1.00	0.25	0.10	0.56
AB99-01	23.17	25.61	2.44	WCG	0.270	74.16	16.23	1.18	0.07	0.01	0.01	0.05	-1.00	0.67	0.08	0.52
AB99-01	25.61	28.51	2.90	WCG	0.070	61.11	23.97	4.00	0.11	0.08	0.01	0.07	-1.00	0.17	0.17	0.64
AB99-01	28.51	30.49	1.98	GRR	0.240	68.38	17.86	4.18	0.43	0.11	0.01	0.06	-1.00	0.60	0.13	0.56
AB99-02	9613.80	7731.40	128.50	0.00	-90.000	26.77										
AB99-02																
AB99-02	0.00	3.05	3.05	WCG	0.070	85.16	8.53	1.20	0.07	0.01	0.01	0.06	-1.00	0.17	0.14	0.72
AB99-02	3.05	6.10	3.05	WCG	0.170	71.45	17.11	1.16	0.09	0.01	0.01	0.07	-1.00	0.42	0.29	1.14
AB99-02	6.10	6.71	0.61	WCG	0.180	81.09	11.26	0.55	0.08	0.01	0.01	0.05	-1.00	0.45	0.22	1.23
AB99-02	6.71	9.15	2.44	WCG	0.140	63.01	21.77	3.57	0.10	0.04	0.01	0.06	-1.00	0.35	0.24	1.05
AB99-02	9.15	12.20	3.05	WCG	0.130	81.68	9.33	2.45	0.11	0.01	0.01	0.07	-1.00	0.32	0.25	0.98
AB99-02	12.20	15.24	3.04	WCG	0.350	83.67	8.77	1.41	0.09	0.01	0.01	0.07	-1.00	0.87	0.21	0.99
AB99-02	15.24	16.40	1.16	GRD	0.380	74.99	14.01	2.42	0.12	0.01	0.01	0.06	-1.00	0.95	0.22	1.10
AB99-02	16.40	18.29	1.89	GRD	0.220	62.38	15.44	12.25	0.23	0.23	0.01	0.09	-1.00	0.55	0.30	1.10
AB99-02	18.29	21.34	3.05	GRD	0.370	59.86	16.02	14.94	0.30	0.31	0.01	0.07	-1.00	0.92	0.30	1.13
AB99-02	21.34	22.87	1.53	GRD	0.170	61.36	20.42	8.29	0.16	0.15	0.01	0.06	-1.00	0.42	0.19	0.78
AB99-02	22.87	24.39	1.52	GRD	0.150	59.60	21.44	7.55	0.16	0.13	0.01	0.07	-1.00	0.37	0.19	0.81
AB99-02	24.39	26.77	2.38	NA	-1.000	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00
AB99-03	9589.10	7729.50	129.50	0.00	-90.000	29.45										
AB99-03																
AB99-03	0.00	3.05	3.05	WCG	0.380	58.28	13.50	9.38	5.01	3.48	2.32	0.90	-1.00	0.95	0.20	1.22
AB99-03	3.05	6.10	3.05	WCG	0.040	69.15	14.20	4.14	2.05	0.97	1.68	0.68	-1.00	0.10	0.15	0.99
AB99-03	6.10	9.15	3.05	WCG	0.050	84.42	8.26	1.67	0.04	0.01	0.01	0.07	-1.00	0.12	0.16	0.81
AB99-03	9.15	12.20	3.05	FBXWCG	0.010	92.62	2.08	2.20	0.05	0.05	0.01	0.07	-1.00	0.02	0.09	0.68
AB99-03	12.20	15.24	3.04	WCG	0.030	85.13	8.05	1.40	0.08	0.01	0.01	0.05	-1.00	0.07	0.14	1.17
AB99-03	15.24	17.53	2.29	WCG	0.060	73.85	16.72	0.33	0.07	0.01	0.01	0.06	-1.00	0.15	0.15	1.34
AB99-03	17.53	18.29	0.76	WCG	0.090	71.70	17.94	0.60	0.07	0.01	0.01	0.05	-1.00	0.22	0.16	0.98
AB99-03	18.29	19.82	1.53	WCG	0.130	68.96	18.91	1.32	0.14	0.01	0.01	0.07	-1.00	0.32	0.20	1.20
AB99-03	19.82	22.87	3.05	NA	-1.000	66.10	28.43	0.26	1.20	0.20	0.22	-0.03	0.31	0.31	0.19	1.14
AB99-03	22.87	25.91	3.04	NA	-1.000	62.50	30.42	0.20	1.00	0.24	0.24	-0.04	0.08	0.08	0.12	1.01
AB99-03	25.91	29.45	3.54	NA	-1.000	62.90	30.05	0.21	1.70	0.22	0.22	-0.05	1.53	1.53	0.09	0.89

TABLE - DRILLHOLE DATA

				ROCK	LECO S %	SiO2 %	Al2O3 %	Fe2O3 %	CaO %	MgO %	Na2O %	K2O %	Over-ride SO3 %	Calculated SO3C %	P2O5 %	TiO2 %
AB99-04	9562.00	7723.00	129.00	0.00	-90.000	36.59										
AB99-04																
AB99-04	0.00	0.91	0.91	NA	-1.000	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00
AB99-04	0.91	3.05	2.14	NA	-1.000	76.70	20.27	0.09	2.30	0.13	0.18	0.00	0.01	0.01	0.06	0.57
AB99-04	3.05	6.10	3.05	NA	-1.000	92.60	8.66	0.17	1.50	0.04	0.10	-0.04	0.09	0.09	0.12	0.56
AB99-04	6.10	9.15	3.05	NA	-1.000	95.90	7.04	0.16	0.80	0.02	0.06	-0.04	0.09	0.09	0.13	0.67
AB99-04	9.15	12.20	3.05	NA	-1.000	86.00	13.23	0.33	1.00	0.07	0.11	-0.04	0.07	0.07	0.13	0.78
AB99-04	12.20	15.24	3.04	NA	-1.000	94.90	4.73	1.56	0.70	0.03	0.04	-0.04	0.11	0.11	0.17	0.81
AB99-04	15.24	18.29	3.05	NA	-1.000	89.70	10.42	0.77	0.70	0.05	0.08	-0.05	0.04	0.04	0.11	0.67
AB99-04	18.29	21.34	3.05	NA	-1.000	52.24	12.33	22.90	0.98	0.37	0.12	-0.03	0.21	0.21	0.13	1.05
AB99-04	21.34	24.39	3.05	NA	-1.000	84.73	13.64	0.37	1.33	0.08	0.14	-0.06	0.03	0.03	0.08	0.78
AB99-04	24.39	27.13	2.74	NA	-1.000	78.80	17.71	0.92	0.80	0.12	0.14	-0.06	0.01	0.01	0.06	0.71
AB99-04	27.13	30.49	3.36	NA	-1.000	65.40	15.56	8.36	0.60	0.24	0.13	-0.05	0.02	0.02	0.08	0.57
AB99-04	30.49	33.54	3.05	NA	-1.000	65.44	16.75	6.68	1.11	0.26	0.15	-0.05	0.01	0.01	0.06	0.59
AB99-04	33.54	36.59	3.05	NA	-1.000	73.10	16.58	4.04	1.10	0.20	0.13	-0.04	0.43	0.43	0.05	0.49
AB99-05	9601.40	7708.20	118.20	0.00	-90.000	18.29										
AB99-05																
AB99-05	0.00	0.91	0.91	NA	-1.000	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00
AB99-05	3.05	6.10	3.05	WCG	0.300	78.13	12.43	1.09	0.09	0.01	0.01	0.06	-1.00	0.75	0.21	0.97
AB99-05	6.10	9.15	3.05	GRD	0.130	64.77	22.34	1.36	0.12	0.01	0.01	0.08	-1.00	0.32	0.25	0.71
AB99-05	9.15	12.20	3.05	GRD	0.160	69.39	16.69	4.76	0.20	0.09	0.01	0.08	-1.00	0.40	0.32	0.79
AB99-05	12.20	15.24	3.04	NA	-1.000	77.80	11.53	4.64	0.80	0.16	0.10	-0.03	0.23	0.23	0.18	0.75
AB99-05	15.24	18.29	3.05	NA	-1.000	69.10	15.27	6.26	0.60	0.21	0.11	-0.04	0.14	0.14	0.15	0.72
AB99-06	9580.00	7700.00	116.00	0.00	-90.000	18.29										
AB99-06																
AB99-06	0.00	3.05	3.05	WCG	0.100	88.48	4.82	0.96	0.09	0.01	0.01	0.07	-1.00	0.25	0.25	0.75
AB99-06	3.05	6.10	3.05	WCG	0.100	89.18	4.31	0.82	0.12	0.01	0.01	0.08	-1.00	0.25	0.34	2.00
AB99-06	6.10	9.15	3.05	GRD	0.520	80.15	9.33	1.43	0.17	0.01	0.01	0.08	-1.00	1.30	0.45	1.78
AB99-06	9.15	12.20	3.05	GRD	0.240	65.70	21.14	1.89	0.13	0.01	0.01	0.07	-1.00	0.60	0.28	0.89
AB99-06	12.20	15.24	3.04	NA	-1.000	69.50	28.98	-0.10	2.60	0.18	0.23	-0.01	0.19	0.19	0.12	0.72
AB99-06	15.24	18.29	3.05	NA	-1.000	67.80	31.20	-0.29	1.80	0.20	0.24	-0.06	0.01	0.01	0.06	0.53
AB99-07	9145.20	7860.20	111.20	0.00	-90.000	21.34										
AB99-07																
AB99-07	0.00	3.05	3.05	NA	-1.000	96.20	0.44	3.69	0.60	0.01	-0.04	-0.09	1.98	1.98	0.01	0.80
AB99-07	3.05	6.10	3.05	NA	-1.000	99.10	0.37	2.61	0.60	-0.01	-0.04	-0.10	1.40	1.40	0.01	0.82
AB99-07	6.10	9.15	3.05	NA	-1.000	91.90	0.37	5.74	0.60	0.01	-0.03	-0.09	3.00	3.00	0.10	0.83
AB99-07	9.15	12.20	3.05	NA	-1.000	97.90	0.34	3.08	0.70	0.00	-5.00	-0.10	1.68	1.68	0.01	0.80
AB99-07	12.20	15.24	3.04	NA	-1.000	99.60	0.45	2.20	1.20	0.00	-0.04	-0.08	1.15	1.15	0.10	0.64
AB99-07	15.24	18.29	3.05	NA	-1.000	99.20	0.30	2.49	0.60	-0.01	-0.04	-0.10	1.30	1.30	0.01	0.65
AB99-07	18.29	21.34	3.05	NA	-1.000	102.10	0.36	1.33	1.20	-0.01	-0.04	-0.07	0.65	0.65	0.01	0.77

TABLE - DRILLHOLE DATA

				ROCK	LECO S %	SiO2 %	Al2O3 %	Fe2O3 %	CaO %	MgO %	Na2O %	K2O %	Over-ride SO3 %	Calculated SO3C %	P2O5 %	TiO2 %
AB99-09	9511.10	7758.70	127.20	0.00	-90.000	30.49										
AB99-09																
AB99-09	0.00	3.05	3.05	NA	-1.000	88.20	12.46	0.14	0.90	0.07	0.11	-0.05	0.02	0.02	0.07	0.57
AB99-09	3.05	6.10	3.05	NA	-1.000	84.60	15.53	0.11	0.50	0.08	0.12	-0.06	0.01	0.01	0.05	0.62
AB99-09	6.10	9.15	3.05	NA	-1.000	84.60	17.97	0.09	0.60	0.10	0.15	-0.05	0.01	0.01	0.08	0.71
AB99-09	9.15	12.20	3.05	NA	-1.000	73.80	28.82	-0.10	0.60	0.17	0.21	-0.05	0.01	0.01	0.07	0.82
AB99-09	12.20	15.24	3.04	NA	-1.000	70.50	30.51	-0.18	0.60	0.21	0.22	-0.04	0.01	0.01	0.05	0.99
AB99-09	15.24	18.29	3.05	NA	-1.000	79.50	17.86	0.30	2.40	0.13	0.13	-0.05	0.01	0.01	0.05	0.59
AB99-09	18.29	21.34	3.05	NA	-1.000	80.20	18.15	0.59	0.80	0.11	0.13	-0.05	0.01	0.01	0.07	0.68
AB99-09	21.34	24.39	3.05	NA	-1.000	89.30	10.57	0.70	0.60	0.06	0.08	-0.05	0.05	0.05	0.12	0.77
AB99-09	24.39	27.44	3.05	NA	-1.000	92.30	8.19	0.28	0.60	0.03	0.05	-0.03	0.15	0.15	0.16	1.21
AB99-09	27.44	30.49	3.05	NA	-1.000	77.50	17.19	0.24	0.60	0.10	0.13	-0.01	0.29	0.29	0.22	2.39
AB99-10	9234.20	7804.30	106.10	0.00	-90.000	29.60										
AB99-10																
AB99-10	0.00	1.83	1.83	NA	-1.000	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00
AB99-10	1.83	3.05	1.22	SWB	0.200	94.27	1.80	0.55	0.02	0.01	0.01	0.03	-1.00	0.50	0.03	0.60
AB99-10	3.05	6.10	3.05	SWB	0.350	94.03	2.05	0.66	0.04	0.01	0.01	0.03	-1.00	0.87	0.04	0.64
AB99-10	6.10	9.15	3.05	SWB	0.280	96.09	0.77	0.65	0.04	0.01	0.01	0.04	-1.00	0.70	0.03	0.60
AB99-10	9.15	12.20	3.05	SWB	0.270	96.79	0.52	0.62	0.04	0.01	0.01	0.04	-1.00	0.67	0.02	0.70
AB99-10	12.20	15.24	3.04	SWB	0.250	97.03	0.67	0.53	0.03	0.01	0.01	0.03	-1.00	0.62	0.03	0.73
AB99-10	15.24	18.29	3.05	SWB	0.090	96.99	0.55	0.36	0.03	0.01	0.01	0.03	-1.00	0.22	0.01	0.82
AB99-10	18.29	21.34	3.05	SWB	0.030	97.11	0.44	0.20	0.03	0.01	0.01	0.03	-1.00	0.07	0.01	1.01
AB99-10	21.34	24.39	3.05	SWB	0.150	97.16	0.68	0.36	0.02	0.01	0.01	0.03	-1.00	0.37	0.03	1.04
AB99-10	24.39	27.44	3.05	NA	-1.000	98.30	0.17	0.53	0.90	-0.03	-0.02	-0.11	0.08	0.08	0.01	0.83
AB99-10	27.44	29.60	2.16	NA	-1.000	67.60	17.87	5.82	1.20	0.25	0.13	-0.04	0.29	0.29	0.15	0.90
AB00-12	9417.10	8034.70	156.80	0.00	-90.000	15.55										
AB00-12																
AB00-12	0.00	7.62	7.62	NA	-1.000	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00
AB00-12	7.62	10.37	2.75	NA	-1.000	53.50	16.46	6.95	4.00	3.68	0.21	1.56	3.58	3.58	0.08	0.79
AB00-12	10.37	12.50	2.13	NA	-1.000	48.20	14.94	6.36	6.50	2.85	0.21	1.77	8.44	8.44	0.09	0.67
AB00-12	12.50	15.55	3.05	NA	-1.000	48.60	15.73	6.83	5.60	3.07	0.27	2.11	7.44	7.44	0.09	0.68
AB00-13	9601.5	7804.0	140.0	0.0	-90.000	13.41										
AB00-13																
AB00-13	0.00	0.91	0.91	NA	-1.000	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00
AB00-13	0.91	3.96	3.05	NA	-1.000	77.70	4.11	9.05	0.80	0.28	0.17	0.09	0.10	0.10	0.04	0.72
AB00-13	3.96	7.01	3.05	NA	-1.000	84.10	6.35	4.58	0.60	0.16	0.13	0.00	0.10	0.10	0.04	0.66
AB00-13	7.01	10.06	3.05	NA	-1.000	89.20	5.21	2.88	0.40	0.07	0.04	0.00	0.10	0.10	0.05	0.61
AB00-13	10.06	13.41	3.35	NA	-1.000	90.30	4.62	2.69	0.40	0.05	0.04	0.00	0.10	0.10	0.04	0.67
AB00-14	9654.0	7890.0	150.0	0.0	-90.000	15.24										

TABLE - DRILLHOLE DATA

				ROCK	LECO S %	SiO2 %	Al2O3 %	Fe2O3 %	CaO %	MgO %	Na2O %	K2O %	Over-ride SO3 %	Calculated SO3C %	P2O5 %	TiO2 %
AB00-14																
AB00-14	0.00	10.67	10.67	NA	-1.000	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00
AB00-14	10.67	15.24	4.57	NA	-1.000	49.10	15.73	8.77	5.20	3.28	0.14	1.12	2.09	2.09	0.09	0.82
AB00-15	9390.00	7974.00	168.00	0.00	-90.000	12.20										
AB00-15																
AB00-15	0.00	0.61	0.61	NA	-1.000	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00
AB00-15	0.61	3.05	2.44	NA	-1.000	95.50	2.08	0.86	0.50	0.06	0.03	0.00	0.10	0.10	0.07	0.97
AB00-15	3.05	6.13	3.08	NA	-1.000	61.80	18.02	7.73	0.40	0.15	0.13	0.01	0.10	0.10	0.14	1.46
AB00-15	6.13	9.15	3.02	NA	-1.000	71.80	21.44	1.10	0.50	0.26	0.17	0.00	0.10	0.10	0.13	0.97
AB00-15	9.15	12.20	3.05	NA	-1.000	59.20	27.39	1.76	0.40	0.31	0.20	0.00	1.02	1.02	0.12	1.11
AB00-16	9283.2	7964.2	161.2	0.0	-90.000	30.79										
AB00-16																
AB00-16	0.00	1.52	1.52	NA	-1.000	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00
AB00-16	1.52	3.05	1.53	SWB	0.005	97.27	0.46	0.17	0.02	0.01	0.01	0.02	-1.00	0.01	0.03	1.34
AB00-16	3.05	6.10	3.05	SWB	0.005	97.12	0.56	0.47	0.03	0.01	0.01	0.04	-1.00	0.01	0.02	0.92
AB00-16	6.10	6.86	0.76	SWB	0.005	97.74	0.52	0.27	0.01	0.01	0.01	0.03	-1.00	0.01	0.03	0.75
AB00-16	6.86	9.15	2.29	SWB	0.005	97.88	0.59	0.15	0.01	0.01	0.01	0.03	-1.00	0.01	0.03	0.70
AB00-16	9.15	12.20	3.05	SWB	0.005	97.30	0.59	0.15	0.01	0.01	0.01	0.04	-1.00	0.01	0.01	0.80
AB00-16	12.20	12.96	0.76	SWB	0.005	97.57	0.70	0.26	0.01	0.01	0.10	0.04	-1.00	0.01	0.02	0.51
AB00-16	12.96	15.24	2.28	SWB	0.005	97.87	0.61	0.23	0.01	0.01	0.01	0.04	-1.00	0.01	0.04	0.60
AB00-16	15.24	18.29	3.05	SWB	0.005	96.84	0.64	0.15	0.02	0.01	0.01	0.05	-1.00	0.01	0.05	0.67
AB00-16	18.29	21.34	3.05	SWB	0.005	97.17	0.85	0.30	0.03	0.01	0.01	0.03	-1.00	0.01	0.05	0.64
AB00-16	21.34	23.63	2.29	SWB	0.005	97.52	0.69	0.28	0.03	0.01	0.01	0.05	-1.00	0.01	0.03	0.66
AB00-16	28.96	30.79	1.83	SWB	0.005	97.26	0.71	0.13	0.02	0.01	0.01	0.04	-1.00	0.01	0.01	0.60
AB00-17	9415.5	7901.9	157.5	0.0	-90.000	30.49										
AB00-17																
AB00-17	0.00	0.61	0.61	NA	-1.000	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00
AB00-17	0.61	3.05	2.44	GRD	0.050	78.19	13.38	0.66	0.04	0.01	0.01	0.04	-1.00	0.12	0.14	0.61
AB00-17	3.05	6.10	3.05	GFR	0.320	65.92	22.31	0.51	0.03	0.01	0.01	0.05	-1.00	0.80	0.13	0.64
AB00-17	6.10	9.15	3.05	GFR	0.360	80.75	11.94	0.75	0.06	0.01	0.01	0.05	-1.00	0.90	0.23	0.56
AB00-17	9.15	12.20	3.05	GRDFBX	1.900	71.92	15.57	2.78	0.05	0.01	0.01	0.05	-1.00	4.74	0.18	0.58
AB00-17	12.20	15.24	3.04	FBX	1.240	74.63	14.28	2.72	0.04	0.01	0.01	0.05	-1.00	3.10	0.20	0.65
AB00-17	15.24	16.77	1.53	GFR	0.220	68.67	18.58	2.55	0.05	0.01	0.01	0.05	-1.00	0.55	0.20	0.63
AB00-17	16.77	18.29	1.52	WCG	0.090	76.63	13.81	1.46	0.06	0.01	0.01	0.05	-1.00	0.22	0.14	0.61
AB00-17	18.29	21.34	3.05	GRD	0.820	79.10	12.06	1.74	0.16	0.01	0.01	0.05	-1.00	2.05	0.11	0.58
AB00-17	21.34	23.02	1.68	FBX	1.540	66.79	14.94	7.17	0.06	0.01	0.01	0.08	-1.00	3.85	0.14	0.85
AB00-17	23.02	24.39	1.37	FBX	1.470	66.79	17.08	5.74	0.04	0.01	0.01	0.06	-1.00	3.67	0.13	0.55
AB00-17	24.39	27.44	3.05	WCG	0.080	80.32	10.47	2.03	0.06	0.01	0.01	0.06	-1.00	0.20	0.18	0.88
AB00-17	27.44	30.49	3.05	GRD	0.200	73.51	11.01	7.24	0.08	0.01	0.01	0.11	-1.00	0.50	0.27	1.13
AB00-18	9447.50	7846.80	156.20	0.00	-90.000	30.79										

TABLE - DRILLHOLE DATA

				ROCK	LECO S %	SiO2 %	Al2O3 %	Fe2O3 %	CaO %	MgO %	Na2O %	K2O %	Over-ride SO3 %	Calculated SO3C %	P2O5 %	TiO2 %
AB00-18																
AB00-18	0.00	0.61	0.61	NA	-1.000	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00
AB00-18	0.61	3.05	2.44	WCG	0.040	96.34	1.07	0.22	0.04	0.01	0.01	0.04	-1.00	0.10	0.13	1.05
AB00-18	3.05	6.10	3.05	WCG	0.080	96.02	1.48	0.31	0.03	0.01	0.01	0.03	-1.00	0.20	0.17	0.77
AB00-18	6.10	9.15	3.05	WCG	0.060	95.63	1.46	0.26	0.06	0.01	0.01	0.06	-1.00	0.15	0.16	0.92
AB00-18	9.15	12.20	3.05	WCG	0.170	95.21	1.11	0.43	0.03	0.01	0.01	0.03	-1.00	0.42	0.14	1.15
AB00-18	12.20	15.24	3.04	WCG	0.005	94.99	1.94	0.14	0.01	0.01	0.01	0.03	-1.00	0.01	0.07	1.27
AB00-18	15.24	18.29	3.05	WCG	0.005	95.72	1.20	0.19	0.01	0.01	0.01	0.03	-1.00	0.01	0.01	0.62
AB00-18	18.29	21.34	3.05	WCG	0.005	97.66	0.57	0.25	0.02	0.01	0.01	0.03	-1.00	0.01	0.04	0.78
AB00-18	21.34	24.39	3.05	WCG	0.080	96.51	1.30	0.22	0.03	0.01	0.01	0.03	-1.00	0.20	0.18	0.56
AB00-18	24.39	27.44	3.05	WCG	0.005	97.26	0.80	0.37	0.02	0.01	0.01	0.03	-1.00	0.01	0.04	0.68
AB00-18	27.44	30.79	3.35	WCG	0.005	96.95	0.93	0.50	0.02	0.01	0.01	0.03	-1.00	0.01	0.06	0.72
AB00-19	9526.0	7825.0	159.7	0.0	-90.000	30.79										
AB00-19																
AB00-19	0.00	0.61	0.61	NA	-1.000	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00
AB00-19	0.61	3.05	2.44	WCG	0.070	78.26	11.34	2.17	0.08	0.01	0.01	0.07	-1.00	0.17	0.21	1.00
AB00-19	3.05	6.10	3.05	WCG	0.090	81.00	8.34	3.17	0.10	0.01	0.01	0.09	-1.00	0.22	0.25	1.09
AB00-19	6.10	9.15	3.05	WCG	0.200	84.93	6.21	2.55	0.09	0.01	0.01	0.09	-1.00	0.50	0.40	1.14
AB00-19	9.15	12.20	3.05	WCG	0.240	80.10	10.59	1.36	0.11	0.01	0.01	0.08	-1.00	0.60	0.37	1.19
AB00-19	12.20	15.24	3.04	WCG	0.290	87.53	6.36	1.37	0.06	0.01	0.01	0.07	-1.00	0.72	0.21	0.85
AB00-19	15.24	18.29	3.05	WCG	0.070	92.77	3.19	0.56	0.04	0.01	0.01	0.06	-1.00	0.17	0.15	0.58
AB00-19	18.29	21.34	3.05	WCG	0.020	95.58	1.37	0.99	0.06	0.01	0.01	0.03	-1.00	0.05	0.03	0.61
AB00-19	21.34	23.17	1.83	WCG	0.070	95.57	1.57	0.89	0.03	0.01	0.01	0.03	-1.00	0.17	0.05	0.48
AB00-19	23.17	24.39	1.22	WCG	0.020	93.16	2.81	1.49	0.03	0.01	0.01	0.05	-1.00	0.05	0.07	0.56
AB00-19	24.39	27.44	3.05	WCG	0.020	93.09	3.44	0.75	0.04	0.01	0.01	0.06	-1.00	0.05	0.07	0.49
AB00-19	27.44	30.79	3.35	WCG	0.130	79.67	12.69	1.14	0.05	0.01	0.01	0.06	-1.00	0.32	0.15	0.74
AB00-20	9222.30	7991.30	158.60	0.00	-90.000	30.49										
AB00-20																
AB00-20	0.00	0.91	0.91	NA	-1.000	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00
AB00-20	0.91	3.05	2.14	NA	-1.000	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00
AB00-20	3.05	6.10	3.05	NA	-1.000	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00
AB00-20	6.10	9.15	3.05	NA	-1.000	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00
AB00-20	9.15	12.20	3.05	NA	-1.000	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00
AB00-20	12.20	15.24	3.04	NA	-1.000	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00
AB00-20	15.24	18.29	3.05	NA	-1.000	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00
AB00-20	18.29	21.34	3.05	NA	-1.000	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00
AB00-20	21.34	24.39	3.05	NA	-1.000	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00
AB00-20	24.39	27.44	3.05	NA	-1.000	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00
AB00-20	27.44	30.49	3.05	NA	-1.000	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00
AB00-21	9161.20	8093.50	168.60	0.00	-90.000	24.39										
AB00-21																

TABLE - DRILLHOLE DATA

				ROCK	LECO S %	SiO2 %	Al2O3 %	Fe2O3 %	CaO %	MgO %	Na2O %	K2O %	Over-ride SO3 %	Calculated SO3C %	P2O5 %	TiO2 %
AB00-21	0.00	1.52	1.52	NA	-1.000	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00
AB00-21	1.52	3.05	1.53	NA	-1.000	85.50	1.44	4.90	0.70	0.00	0.01	0.00	1.53	1.53	0.14	0.88
AB00-21	3.05	6.10	3.05	NA	-1.000	87.90	1.28	4.04	0.70	0.00	0.02	0.00	0.77	0.77	0.16	0.80
AB00-21	6.10	9.15	3.05	NA	-1.000	81.90	7.78	4.00	0.80	0.03	0.07	0.00	1.95	1.95	0.18	0.58
AB00-21	9.15	12.20	3.05	NA	-1.000	74.00	10.86	6.74	0.70	0.05	0.09	0.00	3.16	3.16	0.12	0.48
AB00-21	12.20	15.24	3.04	NA	-1.000	77.00	12.54	4.33	0.80	0.05	0.11	0.00	2.40	2.40	0.11	0.41
AB00-21	15.24	18.29	3.05	NA	-1.000	80.10	12.77	2.84	0.90	0.05	0.10	0.00	1.72	1.72	0.12	0.48
AB00-21	18.29	21.34	3.05	NA	-1.000	86.60	8.28	2.26	0.90	0.01	0.06	0.00	1.12	1.12	0.09	0.47
AB00-21	21.34	24.39	3.05	NA	-1.000	84.20	11.30	1.75	0.90	0.04	0.10	0.00	1.10	1.10	0.13	0.53
AB00-24	9020.90	7815.80	107.40	0.00	-90.000	12.20										
AB00-24																
AB00-24	0.00	1.52	1.52	NA	-1.000	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00
AB00-24	1.52	3.05	1.53	NA	-1.000	96.10	0.87	1.07	0.80	0.00	0.00	0.00	0.10	0.10	0.01	1.23
AB00-24	3.05	6.10	3.05	NA	-1.000	81.10	0.43	9.39	0.50	0.00	0.00	0.00	2.62	2.62	0.01	0.98
AB00-24	6.10	8.84	2.74	NA	-1.000	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00
AB00-24	8.84	12.20	3.36	NA	-1.000	92.70	0.46	2.97	0.70	0.00	0.00	0.00	0.10	0.10	0.01	1.30
AB00-25	9367.0	7724.0	108.0	0.0	-90.000	30.49										
AB00-25																
AB00-25	0.00	30.49	30.49	NA	-1.000	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
AB01-26	9192.10	7831.20	111.00	0.00	-90.000	30.49										
AB01-26																
AB01-26	0.00	4.57	4.57	OVB	-1.000	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00
AB01-26	4.57	7.62	3.05	G	0.060	97.88	0.36	0.49	0.71	-0.04	-0.03	-0.10	0.10	0.15	0.03	0.81
AB01-26	7.62	10.67	3.05	G	0.010	97.75	0.34	0.38	1.10	-0.03	-0.01	-0.11	0.10	0.02	0.03	0.54
AB01-26	10.67	13.72	3.05	G	0.220	97.62	0.48	0.57	2.20	-0.01	-0.02	-0.09	0.10	0.55	0.03	0.50
AB01-26	13.72	16.77	3.05	G	0.150	96.86	0.30	0.48	0.71	-0.03	-0.03	-0.11	0.10	0.37	0.03	0.61
AB01-26	16.77	19.82	3.05	G	0.050	99.12	0.39	0.24	1.39	-0.02	-0.02	-0.10	0.10	0.12	0.03	0.70
AB01-26	19.82	22.87	3.05	G	0.030	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	0.07	-1.00	-1.00
AB01-26	22.87	25.91	3.04	G	0.160	99.11	0.40	0.41	1.05	-0.02	-0.03	-0.10	0.10	0.40	0.03	0.65
AB01-26	25.91	28.96	3.05	G	0.100	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	0.25	-1.00	-1.00
AB01-26	28.96	30.49	1.53	G	0.120	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	0.30	-1.00	-1.00
AB01-27	9276.4	7777.5	108.0	0.0	-90.000	38.11										
AB01-27																
AB01-27	0.00	2.74	2.74	OVB	-1.000	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00
AB01-27	2.74	6.10	3.36	G	0.250	97.99	1.06	0.68	1.08	-0.02	-0.01	-0.10	0.25	0.62	0.03	0.71
AB01-27	6.10	9.15	3.05	G	0.030	98.82	0.71	0.27	1.05	-0.03	-0.03	-0.11	0.04	0.07	0.03	0.69
AB01-27	9.15	12.20	3.05	G	0.120	98.34	0.97	0.48	1.10	-0.03	-0.02	-0.11	0.12	0.30	0.03	0.76
AB01-27	12.20	15.24	3.04	G	0.090	97.71	0.84	0.40	1.72	-0.03	-0.04	-0.11	0.08	0.22	0.03	0.78
AB01-27	15.24	18.29	3.05	G	0.090	97.74	1.51	0.34	1.10	-0.02	-0.04	-0.11	0.09	0.22	0.03	1.31
AB01-27	18.29	21.34	3.05	G	0.030	97.05	1.54	0.30	1.00	-0.03	-0.03	-0.11	0.03	0.07	0.03	1.82

TABLE - DRILLHOLE DATA

				ROCK	LECO S %	SiO2 %	Al2O3 %	Fe2O3 %	CaO %	MgO %	Na2O %	K2O %	Over-ride SO3 %	Calculated SO3C %	P2O5 %	TiO2 %
AB01-27	21.34	24.39	3.05	G	0.005	99.30	0.83	0.18	0.98	-0.03	-0.05	-0.11	0.01	0.01	0.03	0.78
AB01-27	24.39	27.44	3.05	G	0.290	97.09	0.72	0.65	0.91	-0.03	-0.04	-0.10	0.29	0.72	0.03	0.75
AB01-27	27.44	30.49	3.05	G	0.080	97.95	0.96	0.35	1.57	-0.02	-0.04	-0.10	0.11	0.20	0.03	0.93
AB01-27	30.49	33.54	3.05	G	0.010	99.76	0.87	0.17	0.86	-0.03	-0.04	-0.11	0.01	0.02	0.03	0.86
AB01-27	33.54	36.59	3.05	G	0.080	98.24	2.05	0.29	0.88	-0.02	-0.02	-0.11	0.07	0.20	0.03	0.91
AB01-27	36.59	38.11	1.52	G	0.030	99.61	0.55	0.17	0.85	-0.04	-0.05	-0.12	0.02	0.07	0.03	0.78
AB01-28	9318.60	7750.60	108.00	0.00	-90.000	16.77										
AB01-28																
AB01-28	0.00	15.24	15.24	OVB	-1.000	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00
AB01-28	15.24	16.77	1.53	PYG	-1.000	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00
AB01-29	9218.90	7873.40	123.00	0.00	-90.000	36.59										
AB01-29																
AB01-29	0.00	3.66	3.66	OVB	-1.000	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00
AB01-29	3.66	6.71	3.05	G	0.010	97.88	0.48	0.85	0.83	-0.04	-0.04	-0.10	0.01	0.02	0.03	1.09
AB01-29	6.71	9.76	3.05	G	0.030	99.08	0.40	0.69	0.83	-0.04	-0.04	-0.11	0.01	0.07	0.03	0.51
AB01-29	9.76	12.80	3.04	G	0.160	98.26	0.43	0.92	0.82	-0.03	-0.04	-0.11	0.02	0.40	0.03	0.64
AB01-29	12.80	15.85	3.05	G	0.010	97.75	0.43	0.58	0.83	-0.04	-0.03	-0.10	0.01	0.02	0.03	0.56
AB01-29	15.85	18.90	3.05	G	0.030	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	0.07	-1.00	-1.00
AB01-29	18.90	20.43	1.53	G	0.020	95.13	0.44	0.60	0.74	-0.04	-0.02	-0.10	0.01	0.05	0.04	0.42
AB01-29	20.43	23.48	3.05	G	0.005	97.79	0.45	0.60	0.70	-0.03	-0.02	-0.10	0.01	0.01	0.04	0.39
AB01-29	23.48	26.52	3.04	G	0.005	97.96	0.44	0.25	0.69	-0.04	-0.03	-0.11	0.01	0.01	0.04	0.60
AB01-29	26.52	28.05	1.53	G	0.030	99.68	0.41	0.70	0.80	-0.03	-0.01	-0.10	0.01	0.07	0.04	0.41
AB01-29	28.05	29.57	1.52	G	0.030	97.14	0.40	0.53	0.86	-0.04	-0.03	-0.11	0.01	0.07	0.04	0.39
AB01-29	29.57	31.10	1.53	G	0.020	98.98	0.48	0.48	0.74	-0.02	-0.01	-0.10	0.01	0.05	0.04	0.46
AB01-29	31.10	32.62	1.52	G	0.005	99.19	0.40	0.64	0.71	-0.02	-0.02	-0.10	0.01	0.01	0.04	0.38
AB01-29	32.62	34.15	1.53	G	0.140	96.15	0.41	0.46	0.86	-0.04	-0.02	-0.11	0.01	0.35	0.04	0.51
AB01-29	34.15	35.67	1.52	G	0.010	97.55	0.41	0.32	0.69	-0.04	-0.03	-0.11	0.01	0.02	0.04	0.54
AB01-29	35.67	36.59	0.92	G	0.005	98.74	0.49	0.27	0.70	-0.03	-0.02	-0.11	0.01	0.01	0.04	0.66
AB01-30	9261.10	7846.50	121.00	0.00	-90.000	48.78										
AB01-30																
AB01-30	0.00	7.62	7.62	OVB	-1.000	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00
AB01-30	7.62	10.67	3.05	G	0.068	97.92	1.64	0.71	0.63	-0.01	-0.01	-0.10	0.01	0.17	0.04	0.77
AB01-30	10.67	13.72	3.05	G	0.008	95.50	1.24	0.60	0.57	-0.02	-0.01	-0.01	0.01	0.02	0.04	0.68
AB01-30	13.72	16.77	3.05	G	0.020	99.83	0.40	0.61	0.81	-0.03	-0.03	-0.10	0.01	0.05	0.04	0.66
AB01-30	16.77	19.82	3.05	G	0.240	87.13	14.34	0.19	0.63	0.07	0.10	-0.02	0.09	0.60	0.04	1.44
AB01-30	19.82	22.87	3.05	G	0.328	77.10	24.07	0.01	0.67	0.13	0.19	-0.07	0.04	0.82	0.04	1.55
AB01-30	22.87	25.91	3.04	G	0.148	94.85	9.84	0.24	0.80	0.02	0.04	-0.08	0.01	0.37	0.04	1.31
AB01-30	25.91	28.96	3.05	G	0.076	89.97	0.87	0.39	0.22	-0.04	-0.01	-0.09	0.01	0.19	0.04	0.82
AB01-30	28.96	32.01	3.05	G	0.509	88.31	11.55	0.41	0.51	0.06	0.07	-0.08	0.42	1.27	0.04	1.95
AB01-30	32.01	35.06	3.05	G	0.144	92.13	11.19	0.11	0.52	0.04	0.07	-0.08	0.02	0.36	0.04	1.45
AB01-30	35.06	38.11	3.05	G	0.060	90.86	0.53	0.24	0.27	-0.03	0.01	-0.09	0.01	0.15	0.04	0.95

TABLE - DRILLHOLE DATA

				ROCK	LECO S %	SiO2 %	Al2O3 %	Fe2O3 %	CaO %	MgO %	Na2O %	K2O %	Over-ride SO3 %	Calculated SO3C %	P2O5 %	TiO2 %
AB01-30	38.11	41.16	3.05	G	0.088	99.87	0.49	0.30	0.46	-0.02	-0.01	-0.10	0.01	0.22	0.04	1.03
AB01-30	41.16	44.21	3.05	G	0.004	101.90	0.50	0.22	0.45	-0.03	-0.03	-0.10	0.01	0.01	0.04	1.02
AB01-30	44.21	48.78	4.57	G	0.004	100.38	0.47	0.23	0.45	-0.08	-0.08	-0.10	0.01	0.01	0.04	0.82
AB01-31	9303.30	7819.60	121.00	0.00	-90.000	7.62										
AB01-31																
AB01-31	0.00	1.83	1.83	OVB	-1.000	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00
AB01-31	1.83	4.57	2.74	G	0.004	98.48	0.56	0.42	0.81	0.01	-0.01	-0.06	0.01	0.01	0.04	0.91
AB01-31	4.57	7.62	3.05	G	0.004	98.83	0.36	0.36	0.22	-0.03	-0.02	-0.10	0.01	0.01	0.04	0.78
AB01-32	9345.40	7792.80	118.00	0.00	-90.000	45.72										
AB01-32																
AB01-32	0.00	1.52	1.52	OVB	-1.000	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00
AB01-32	1.52	45.72	44.20	G	-1.000	-1.000	-1.000	-1.000	-1.000	-1.000	-1.000	-1.000	-1.000	-1.000	-1.000	-1.000
AB01-33	9468.0	7724.0	107.4	0.0	-90.000	28.96										
AB01-33																
AB01-33	0.00	10.67	10.67	OVB	-1.000	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00
AB01-33	10.67	13.72	3.05	WCG	0.010	75.57	23.14	0.06	3.06	0.16	0.17	-0.03	0.14	0.02	0.03	0.66
AB01-33	13.72	19.82	6.10	WCG	0.070	70.27	27.91	-0.02	1.41	0.21	0.20	0.02	0.02	0.17	0.03	0.81
AB01-33	19.82	22.87	3.05	WCG	0.090	74.57	25.60	-0.02	1.16	0.14	0.18	-0.05	0.13	0.22	0.03	1.07
AB01-33	22.87	25.91	3.04	WCG	0.070	82.73	19.29	0.03	1.09	0.09	0.13	-0.08	0.09	0.17	0.03	0.83
AB01-33	25.91	28.96	3.05	WCG	0.050	85.98	16.76	0.03	1.06	0.07	0.11	-0.08	0.07	0.12	0.03	0.81
AB02-35	9533.6	7769.6	138.0	0.0	-90.000	42.68										
AB02-35																
AB02-35	0.00	0.61	0.61	OVB	-1.000	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00
AB02-35	0.61	3.05	2.44	WCG	0.160	72.39	15.84	0.31	-0.04	-0.09	-0.10	0.05	0.44	0.40	0.25	0.53
AB02-35	3.05	6.10	3.05	WCG	0.090	67.79	19.65	0.65	-0.05	-0.06	-0.13	0.03	0.21	0.22	0.18	0.63
AB02-35	6.10	9.15	3.05	GRD	0.190	82.26	8.09	2.56	0.07	-0.02	-0.10	0.07	0.49	0.47	0.45	0.70
AB02-35	9.15	12.20	3.05	GRD	0.160	73.50	12.65	1.13	0.06	-0.08	-0.18	0.07	0.34	0.40	0.31	0.58
AB02-35	12.20	15.24	3.04	GRD	0.070	75.05	14.53	1.90	-0.02	0.00	-0.13	0.05	0.20	0.17	0.19	0.61
AB02-35	15.24	18.29	3.05	GRD	0.090	78.85	12.22	2.34	0.01	0.01	-0.15	0.05	0.26	0.22	0.21	0.71
AB02-35	18.29	21.34	3.05	GRD	0.090	85.63	6.10	3.54	0.10	0.05	-0.10	0.06	0.28	0.22	0.29	0.66
AB02-35	21.34	24.39	3.05	GRD	0.090	88.15	4.62	2.92	0.00	-0.01	-0.11	0.05	0.27	0.22	0.23	0.69
AB02-35	24.39	27.44	3.05	GRD	0.180	76.32	12.12	1.66	0.01	-0.01	-0.13	0.06	0.47	0.45	0.34	0.66
AB02-35	27.44	30.49	3.05	GRD	0.170	66.20	22.02	2.11	0.05	0.05	-0.09	0.07	0.48	0.42	0.38	0.76
AB02-35	30.49	33.54	3.05	GRD	0.120	58.20	25.69	2.92	-0.04	0.05	-0.07	0.05	0.30	0.30	0.24	0.68
AB02-35	33.54	36.59	3.05	STF	0.090	63.11	24.82	2.00	-0.06	0.06	-0.10	0.04	0.25	0.22	0.19	0.61
AB02-35	36.59	39.63	3.04	FBX	0.120	60.89	24.57	2.87	-0.02	0.11	-0.09	0.09	0.32	0.30	0.23	0.88
AB02-35	39.63	42.68	3.05	SWB	0.270	65.48	19.71	2.46	0.00	0.05	-0.08	0.07	0.67	0.67	0.18	0.57
AB02-36	9555.90	7780.90	138.80	0.00	-90.000	42.68										
AB02-36																

TABLE - DRILLHOLE DATA

				ROCK	LECO S %	SiO2 %	Al2O3 %	Fe2O3 %	CaO %	MgO %	Na2O %	K2O %	Over-ride SO3 %	Calculated SO3C %	P2O5 %	TiO2 %
AB02-36	0.00	0.61	0.61	OVB	-1.000	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00
AB02-36	0.61	3.05	2.44	WCG	0.260	74.86	7.92	0.73	-0.06	-0.16	-0.18	0.08	0.51	0.65	0.40	0.63
AB02-36	3.05	6.10	3.05	GFR	0.190	85.00	6.56	1.32	-0.01	-0.06	-0.13	0.07	0.53	0.47	0.39	0.33
AB02-36	6.10	9.15	3.05	WCG	0.170	88.20	3.84	1.60	0.04	-0.07	-0.17	0.06	0.49	0.42	0.42	0.94
AB02-36	9.15	12.20	3.05	WCG	0.330	85.37	5.03	1.94	0.12	-0.04	-0.14	0.10	0.78	0.82	0.70	0.86
AB02-36	12.20	15.24	3.04	WCG	0.270	86.29	6.41	1.52	0.17	-0.01	-0.14	0.09	0.69	0.67	0.63	0.61
AB02-36	15.24	18.29	3.05	WCG	0.190	85.92	5.14	0.73	-0.02	-0.02	-0.07	0.07	0.50	0.47	0.42	1.01
AB02-36	18.29	21.34	3.05	WCG	0.100	84.36	7.54	1.00	-0.08	0.03	-0.09	0.05	0.25	0.25	0.25	1.15
AB02-36	21.34	24.39	3.05	GRR	0.110	65.87	10.64	1.20	-0.09	-0.15	0.00	0.05	0.24	0.27	0.21	0.98
AB02-36	24.39	27.44	3.05	GRR	0.090	75.77	14.69	1.31	-0.08	0.04	-0.10	0.05	0.26	0.22	0.23	0.71
AB02-36	27.44	30.49	3.05	GRD	0.120	69.15	18.08	2.00	-0.03	0.19	-0.06	0.06	0.20	0.30	0.28	0.81
AB02-36	30.49	33.54	3.05	GRD	0.060	65.39	20.80	2.61	-0.09	0.01	-0.09	0.04	0.82	0.15	0.16	0.66
AB02-36	33.54	36.59	3.05	GRD	0.320	53.82	30.06	2.99	-0.06	0.08	-0.06	0.05	0.20	0.80	0.21	0.77
AB02-36	36.59	39.63	3.04	GRD	0.230	72.82	16.89	1.64	-0.04	0.09	-0.06	0.07	0.60	0.57	0.20	0.59
AB02-36	39.63	42.68	3.05	LVOL	1.700	59.28	25.83	2.84	-0.12	0.07	-0.06	0.04	4.12	4.24	0.15	0.61
AB02-37	9578.3	7792.2	139.7	0.0	-90.000	39.63										
AB02-37																
AB02-37	0.00	4.57	4.57	NA	-1.000	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00
AB02-37	4.57	7.62	3.05	WCG	0.110	81.13	4.42	2.91	-0.07	-0.06	-0.09	0.03	0.28	0.27	0.19	0.50
AB02-37	7.62	10.67	3.05	GRD	0.080	84.74	5.18	2.77	-0.04	-0.01	0.02	0.04	0.22	0.20	0.20	0.65
AB02-37	10.67	13.72	3.05	GRD	0.050	84.08	3.78	3.26	-0.05	-0.05	-0.10	0.04	0.15	0.12	0.17	0.65
AB02-37	13.72	16.77	3.05	GRD	0.040	72.82	10.02	1.31	0.02	-0.07	0.11	0.08	0.24	0.10	0.17	0.65
AB02-37	16.77	19.82	3.05	GRD	0.100	86.77	5.86	1.81	-0.05	0.16	-0.04	0.04	0.13	0.25	0.14	0.61
AB02-37	19.82	22.87	3.05	LVOL	3.640	70.59	15.02	6.55	0.05	0.21	-0.02	0.08	8.82	9.09	0.24	0.53
AB02-37	22.87	25.91	3.04	WCG	0.260	54.79	15.80	4.03	-0.14	-0.13	0.20	0.07	0.49	0.65	0.18	0.59
AB02-37	25.91	28.96	3.05	WCG	0.650	57.49	19.46	3.26	0.00	-0.13	-0.03	0.04	1.46	1.62	0.15	0.52
AB02-37	28.96	32.01	3.05	WCG	0.070	62.15	17.94	1.83	-0.04	-0.13	-0.22	0.04	0.19	0.17	0.15	0.52
AB02-37	32.01	35.06	3.05	WCG	0.040	62.78	17.95	0.81	-0.08	-0.17	-0.26	0.04	0.12	0.10	0.12	0.55
AB02-37	35.06	38.11	3.05	WCG	0.040	66.57	19.52	1.06	-0.07	-0.09	-0.22	0.05	0.13	0.10	0.13	0.53
AB02-37	38.11	39.63	1.52	WCG	0.030	71.61	15.47	0.81	-0.07	-0.13	-0.22	0.04	0.10	0.07	0.09	0.43
AB02-38	9500.0	7780.7	137.80	307.0	-50.000	27.44										
AB02-38																
AB02-38	0.00	1.52	1.52	NA	-1.000	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00
AB02-38	1.52	3.05	1.53	WCG	0.120	73.36	13.45	0.28	-0.05	-0.08	-0.25	0.04	0.32	0.30	0.24	0.44
AB02-38	3.05	6.10	3.05	WCG	0.170	82.98	9.76	0.48	-0.03	-0.07	0.14	0.07	0.43	0.42	0.38	0.66
AB02-38	6.10	9.15	3.05	WCG	0.570	66.96	10.74	1.40	-0.02	-0.19	-0.26	0.05	1.17	1.42	0.38	0.77
AB02-38	9.15	12.20	3.05	WCG	0.130	82.63	9.61	0.69	0.00	-0.02	-0.21	0.04	0.32	0.32	0.33	0.90
AB02-38	12.20	15.24	3.04	WCG	0.170	84.03	9.19	0.03	-0.06	-0.08	-0.08	0.05	0.32	0.42	0.43	0.88
AB02-38	15.24	18.29	3.05	WCG	0.190	82.90	6.82	0.18	0.03	-0.17	-0.22	0.06	0.52	0.47	0.46	0.78
AB02-38	18.29	21.34	3.05	WCG	0.230	89.21	4.75	0.04	0.06	-0.02	-0.03	0.07	0.49	0.57	0.50	0.84
AB02-38	21.34	24.39	3.05	Tran	0.340	74.56	10.41	1.55	0.01	-0.11	-0.23	0.08	0.81	0.85	0.48	0.95
AB02-38	24.39	27.44	3.05	HCBX	0.270	66.09	16.16	7.62	-0.03	0.32	0.00	0.07	0.62	0.67	0.42	0.65

TABLE - DRILLHOLE DATA

				ROCK	LECO S %	SiO2 %	Al2O3 %	Fe2O3 %	CaO %	MgO %	Na2O %	K2O %	Over-ride SO3 %	Calculated SO3C %	P2O5 %	TiO2 %
AB02-38	27.44	29.57	2.13	HCBX	0.420	60.98	10.49	21.02	0.22	0.59	-0.16	0.07	1.05	1.05	0.46	0.75

Geyserite

Pyritic Geyserite

Geyserite

Chalky Geyserite

Fault

Pemberton Main

BASELINE

SECTION TWO NORTH

SECTION ONE NORTH

P100D

P100C

P100B

P100

P Mn-B

P200

AB00-21

AB00-12

AB00-20

AB00-15

AB00-16

AB00-17

AB00-14

AB00-18

AB00-19

AB00-13

AB01-29

AB99-07

AB01-30

AB01-31

AB01-32

AB01-27

AB01-28

AB00-24

AB00-25

AB02-38

AB02-37

AB02-36

AB02-35

AB99-09

AB01-33

AB99-03

AB99-02

AB99-04

AB99-05

AB99-06

AB98-01

100

120

140

160

180

200

220

1 W

2 W

3 W

4 W

5 W

6 W

1 E

2 E

3 E

0 50 100 150 m

1:2000

FIGURE 7
Plan Map
PEM100

GEOLOGICAL SURVEY BRANCH

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HUSHAMU AREA

NORTH – SOUTH CROSS SECTION

FIGURE 9

SECTION SUBPARALLEL TO STRIKE

← SECTION ALONG MAINLINE LOGGING ROAD →

NORTHWEST

SOUTHEAST

HOLE 05

Elev 30m

← 150m →

32'
Shaley SST 8.00
Shale 0.17
Fault zone Coal 0.73 m Fault
0.03
SST 0.00
0.38
1.07
SHALE 1.00
0.02
Shaley SST 0.00
COAL 0.03
Shaley SST 0.45
0.05
COAL 0.93 Very Faulted
0.00 Faulted
0.11
0.88
COAL
Volc Tuff 138
Volc Breccia.

-90°

Very faulted.

60.96m (200ft)

← Approx 150m →

SEA LEVEL

HOLE 2

← 60m →

23'
CRS SST 0.39
SHALE 1.57
CRS SST 0.00
Sh/SST 0.34
SST 0.06
COAL 0.83
COAL 0.24
SHALE 0.00
0.00
CRS SST 0.27
Dark Shale 0.62
0.00
DK Shale 0.08
0.00
Grey SST 0.00
0.00
Dark Shale 0.00
0.00

Fault at 90° to C.A

-70°

36.58 m (120 ft)

HOLE 04

11'
0.00
Grey SST 0.02
Wishy SST 2.51
Shale 0.00
Shaley SST 0.63
SST 0.17
0.05
Brown Shale 0.00
Massive SST 0.00
0.00
SHALE 0.00
0.00
SST Shaley SST 0.00
0.00
DARK SHALE 0.00
0.00
0.00
0.00
0.00
0.02
Red shale grey shale 0.00
0.00
0.00
RED SHALE 0.00
1.38
0.00
0.00
0.00
0.00
.75
0.00

-70°

48.63m (153ft)

-50 Elevation

SCALE 1:250

HUSHAMU AREA

PROJECTED LONGITUDINAL SECTION

④ FIGURE 10

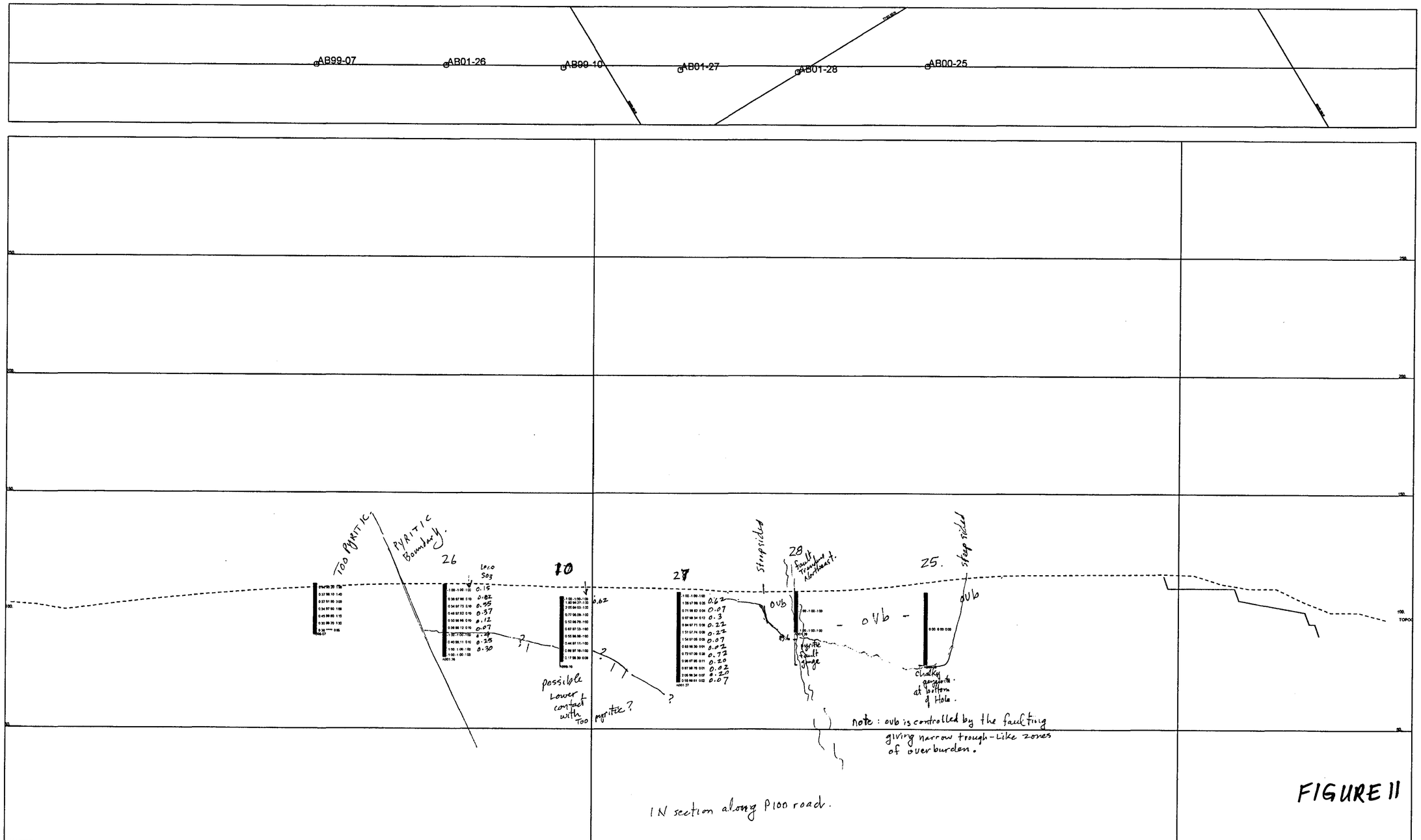
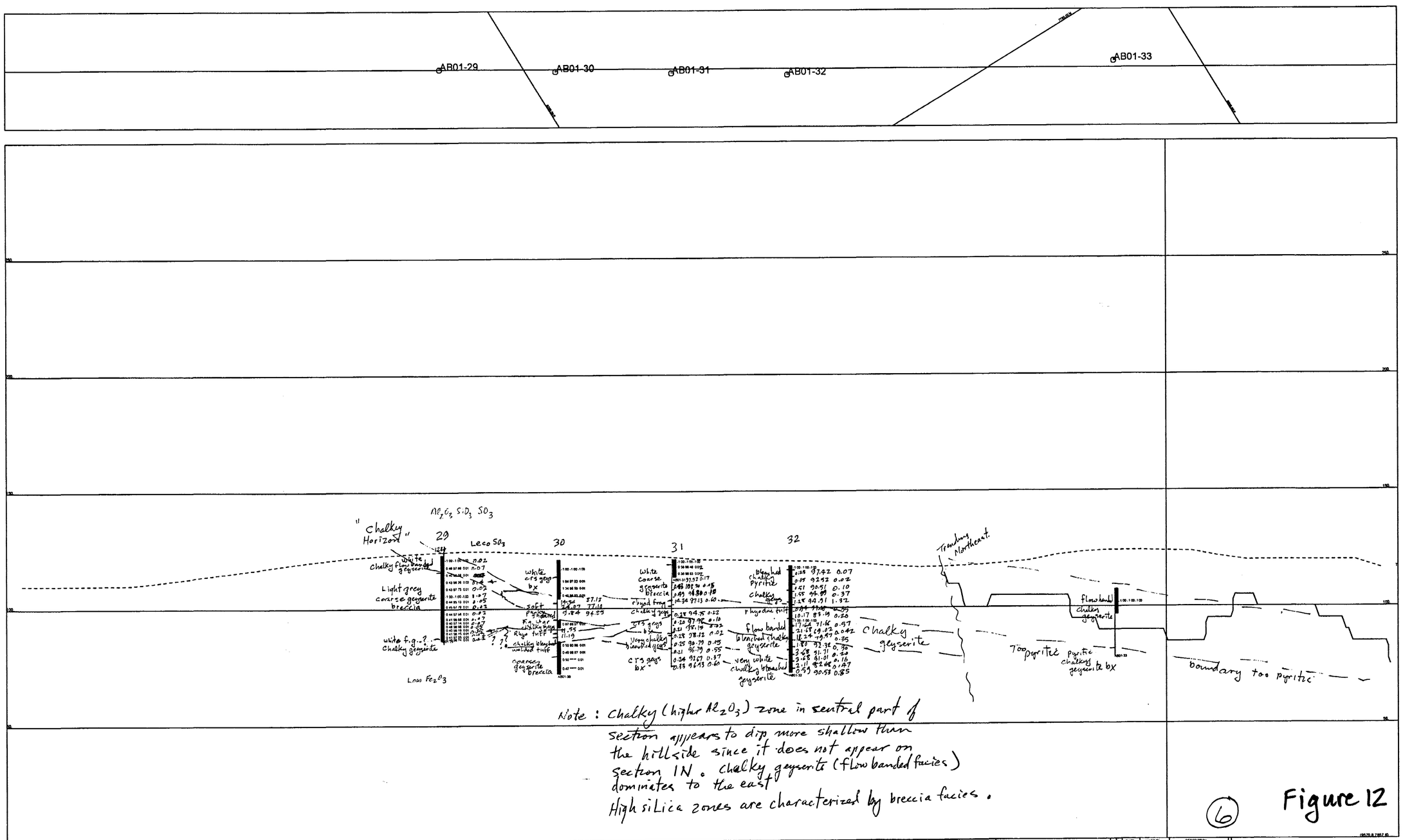


FIGURE 11

PLOT SCALE: 1" = 1,000	REVISIONS: DATE / MADE BY / DESCRIPTION	PEM100 SILICA PROJECT 1N SECTION LOOKING NORTH (5)	
DATE: 04/29/2002	DRAWN BY: JWH	CHECKED / APPROVED	MAP INDEX NUMBER / SCALE: 1:1000 M / DRAWING NUMBER: FIG 11



Note : Chalky (higher Al_2O_3) zone in central part of section appears to dip more shallow than the hillside since it does not appear on section 1N. Chalky geyserite (flow banded facies) dominates to the east
High silica zones are characterized by breccia facies.

(6)

Figure 12

1:1000		PEM100 SILICA PROJECT	
		2N SECTION LOOKING NORTH	
DATE: 04/25/2002	DRAWN BY: JMH	SCALE: 1:1000 M	DRAWING NUMBER: FIG 12