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FINAL REPORT

MAMMOTH GEOLOGICAL LTD.

1993 PHASE III EXPLORATION PROGRAM

FOR THE

BEAVER PROPERTY

Nanaimo Mining Division Vancouver Island, B.C.

FOR

PANORAMA NATURAL STONE LTD.

GEOLOGICAL BRANCH ASSESSMENT REPORT

By: R.Tim Henneberry, P.Geo. December 31, 1993

SUMMARY

The Beaver property was acquired by staking in October 1992 as a possible source of white marble for dimension stone. A preliminary examination was completed at the time of staking, during which a program of mapping and sampling and excavator trenching was recommended. This program was completed in June 1993, with a program of diamond drilling recommended. This program was completed in December 1993 and is described in this report.

The Beaver property consists of the contiguous Beaver 1-4 two-post mineral claims in the Nanaimo Mining Division of Vancouver Island. The property is located 15 kilometres east of Port McNeill. A maintained logging road bisects the property.

A 189 metre (620 foot) diamond drill program was completed on the property between October and December 1993. A total of 8 holes were drilled with 7 of the 8 intersecting the white marble.

The diamond drilling confirmed the continuity of white marble to depth and along strike, with a prominent ridge of marble identified. The drilling showed the white marble beds to be 5 to 10 metres thick, with most of the beds being closer to 10 metres in thickness.

A program of test block cutting is recommended to test the ridge of white marble to ensure marketable quarry blocks of an approximate 2.4*1.8*1.8m (8*6*6 ft) size can be consistently quarried. The total cost of this block-cutting program is estimated at \$77,913.

The completed diamond drilling program cost was \$22,908.54

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CROSS SECTIONS AT 1:1250



INTRODUCTION

The purpose of this report is to document the 1993 Phase III exploration program completed on the Beaver property of Panorama Natural Stone Ltd. This exploration program consisted of 620 feet (189 metres) of diamond drilling. The program took place between October and December 1993.

This program was undertaken as a result of positive results from the earlier completed Phase I and Phase II exploration programs which consisted of geological mapping and sampling and excavator trenching (Henneberry, 1993).

The goal of the diamond drilling was to confirm the continuation of color and texture of the marble to a depth of 25-30 metres and at the same time pinpoint a location for a bulk test.

The long term goal of this property is to produce $\pm 250 - 2.4*1.8*1.8$ metre (8*6*6 ft) rough quarry blocks of marble on an annual basis. An annual production of this volume would be similar to a solid block of marble the size of an average house. There is little point, therefore, in drilling much past a depth of 30 metres, as marble below this depth is essentially un-quarriable in the short term (10-25 years).



LOCATION, ACCESS

The area of interest is the northern section of Vancouver Island, between latitudes $49^{\circ} 45'$ and $50^{\circ} 45'$ and longitudes $126^{\circ} 30'$ and $127^{\circ} 55'$. Topography ranges from Sea Level to 1050 metres, with valleys generally less than 300 metres. There are numerous lakes, creeks and streams where water for diamond drilling is readily obtainable. Heavy duty equipment for trenching and road-building will be accessible locally, in either Port Hardy or Port McNeill.

The climate on the north island is relatively mild. The summers are warm and generally dry, while the winters are cool and wet. Snow will accumulate on the higher peaks, but generally the valley bottoms and lower hills are clear for year round work.

There are several towns and lesser communities in the map area where accommodation and lodging can be readily obtained, including Port Hardy, Port McNeill and Woss. The Island Highway cuts through much of the map area. The numerous logging roads of Canadian Forest Products, Fletcher Challenge Canada and Canadian Pacific Forest Products provide access to different claim groups.

The Beaver Property lies on NTS Sheet 092L/10W, 15 kilometres east of Port McNeill. Access to the property is obtained by driving 15 kilometres east of Port McNeill via the Beaver Cove Road. A short logging road is then taken at the Beaver Cove "T" to reach the claims. The status of the property is logged and reforested.



CLAIM HOLDINGS

The Beaver property comprises a total of 4 units. Unlike metallic mineral exploration, large tracts of ground do not need to be acquired to secure your deposit. The marble groups cover the full width of the limestone band, so a larger claim holding is pointless.

Name	Record Numbers	Anniversary Date		
Beaver 1-2	314220-314221	October 25, 2003 *		
Beaver 3-4	318695-318696	July 1, 1994		

* pending approval of phase I and II exploration program for assessment credits.

All claims are presently registered to R. Tim Henneberry who is holding them in trust for Panorama Natural Stone Ltd.

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REGIONAL GEOLOGY

The geology of the north end of Vancouver Island has been described by Muller et al (1974) and Muller et al (1980). The area lies in the Insular Belt of the Canadian Cordillera. The map area is chiefly underlain by the middle to upper Triassic Vancouver Group, overlain by the lower Jurassic Bonanza Group. The Vancouver Group is intruded by large and small bodies of middle Jurassic Island Intrusions and the related (?) Westcoast Complex, and overlain unconformably by remnants of a lower Cretaceous clastic wedge on the southwest side and similar upper Cretaceous beds on the northwest side of Vancouver Island. There are some small early Tertiary (Catface) intrusions also mapped. The region may be divided into several great structural blocks, separated mainly by important near-vertical faults and themselves fractured into many small fault segments.

The Vancouver Group is comprised of the lower Karmutsen Formation, middle Quatsino Formation and upper Parson Bay Formation. The Karmutsen Formation, the thickest and most widespread of the Vancouver Group formations, consists of basaltic pillow lavas, pillow breccias and lava flows with minor interbedded limestones, primarily in the upper part of the formation. Karmutsen rocks outcrop throughout the north part of Vancouver Island, primarily on the east side.

The Quatsino Formation overlies the basalts. The lower part of the Quatsino Formation consists of thick bedded to massive, brown-grey to light grey, grey to white weathering, fine to microcrystalline, commonly stylolithic limestone. The upper part is thin to thick bedded, darker brown and grey limestone, with fairly common layers of shell debris. The formation is in gradational contact with the overlying Parson Bay Formation by an increase in layers of calcareous pelites. Quatsino limestone outcrops as three narrow belts on the north part of Vancouver Island.

The Parson Bay Formation consists of a series of interbedded silty limestones and calcareous shales and sandstones, and occasional beds of pure limestone. Parson Bay rocks outcrop sporadically overlying the Quatsino limestone.

The Bonanza Group overlies the Vancouver Group. Bonanza Group rocks are primarily a Jurassic assemblage of interbedded lava, breccia and tuff with compositions ranging from basalt through andesite and dacite to rhyolite, deposited in a volcanic island arc environment. The Bonanza Group outcrop primarily on the west side of northern Vancouver Island.

The Westcoast Complex is a heterogeneous assemblage of amphibolite and basic migmatite with minor metasedimentary and metavolcanic rocks of greenschist metamorphic grade. The Westcoast Complex outcrops in a loosely defined belt on the west coast of Vancouver Island.

Granitoid batholiths and stocks of the Island Intrusions underlie large parts of Vancouver Island. These intrusions range in composition from quartz diorite and tonalite to granodiorite and granite. Island Intrusions outcrop in a belt through the central section of Vancouver Island.

The Cretaceous clastic wedge includes the Queen Charlotte and Nanaimo Groups. These groups consist of cyclical successions of sandstone, conglomerate and shale, with interbedded coal in the Nanaimo Group. These rocks outcrop around Quatsino Sound.

Small intrusive stocks of early Tertiary age and of general quartz dioritic composition are known in many parts of Vancouver Island. These rocks are generally massive, light colored, fine to medium grained equigranular to locally porphyritic granitoid rocks. They are commonly regularly and closely jointed.

The network of faults displayed on the north end of Vancouver Island appears to be the super position of two or more fracture patterns, each with a characteristic directions and of different age and origin.

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Quatsino Formation

The Quatsino Formation limestones are the main focus of the marble exploration. The larger, massive beds of limestone are white to grey in color and distinctly crystalline. Exceedingly fine-grained beds form a small percentage of the whole and siliceous or cherty varieties are likewise sparingly developed (Gunning, 1930). The Quatsino formation consists almost entirely of limestone, with a few thin flows of andesite or basalt. The limestone is fine to coarsely crystalline, and ranges from white to black, with various intermediate colors. Towards the base, it tends to be exceedingly fine grained, and grey and brownish or buff colors are characteristic. Midway of the formation the colors are predominantly white or grey, but towards the top the limestone becomes dark grey to black, due to a varying quantity of carbonaceous matter, and the formation grades upward into argillites and impure limestones of the overlying Parson Bay Formation. Even at the top, however, light grey or even white beds are interbedded with the darker varieties. The bedding, as represented by colour banding, is generally well preserved in the upper part of the formation but in the lower part, where white to brownish grey and buff colors predominate, it is poorly preserved. In the upper part, too, the beds are generally thin, thicknesses of 1-2 centimetres being common and more than 60-100 centimetres uncommon. The formation as a whole is dominantly a high-calcium limestone (Hoadley, 1953).

Within 1-3 kilometres of bodies of the Coast Intrusions, the limestone may be highly contorted and extremely jointed and fractured, cut by many acidic dykes, and partly to completely skarnified (Hoadley, 1953).

In the vicinity of Kathleen and Alice lakes, the lower portion of the limestone contains small interbeds of lava and above it lies a mixed series of argillites, quartzites and volcanics in which there are small beds of argillaceous limestone. White to dark grey limestones occur at several places on Nimpkish Lake. The limestones are recrystallized and somewhat faulted. (Gunning, 1930), and obtain a thickness of 150 to 300 metres in the Nimpkish Lake Quadrangle. The limestone becomes darker and argillaceous towards the top of the formation. (Gunning, 1932a).

The limestone in the Zeballos area is medium to coarsely crystalline and, owing to extensive recrystallization, has lost all evidence of bedding. On weathered surfaces the limestone is grey, but on freshly broken surfaces it ranges from white to cream (Stevenson, 1950).

The limestone outcropping along Nimpkish Lake (Central Band) is too jointed in many places to serve as a building stone, but where the beds are least deformed and well removed from intrusions, as from Beaver Cove to Bonanza Lake, it could be extracted in blocks sufficiently large for ordinary structural purposes. However, there is an inexhaustible supply of limestone suitable for fluxing purposes in smelting operations, a favourable location for an open-pit operation being on the east side of Tahsis Inlet, 1.6 kilometres north of Mozino Point (Hoadley, 1953).

Limestone outcrops in three relatively narrow discontinuous bands of varying lengths on the north end of Vancouver Island (McCammon, 1968). The East Band reaches from the hill just west of Beaver Cove southeast across Tsulton River to Bonanza Lake and down the west side of the lake to its west end. The Centre Band extends from 5 kilometres south of Port McNeill southeast to 15 kilometres past the south end of Nimpkish Lake. The West Band extends from west of Nahwitti Lake southeast to Tlupana Inlet. A additional limestone occurrence extends along the south shore of Holberg Inlet.

The limestone from the East Band is generally grey-white to white in color with occasional beds of dark black. Structurally, this band is fairly competent in certain sections. Large blocks could be quarried from these locations.

The limestone from the Centre Band is generally medium grey to black or dark brown to black. Along the east side of Nimpkish Lake a section of "dirty" sugary grey white limestone was observed. Structurally, this is the least competent of the three bands, with several continuous sections of severely broken and brecciated limestone.

The limestone of the West Band is the most colorful of the three, ranging from light brown, through medium grey brown to dark grey, or dark brown to black. As with the East Band, several locations have been identified where large blocks could be quarried.

1993 EXPLORATION PROGRAM

Beaver Property Geology

The Beaver Property is underlain by the East Band of the Quatsino Limestone, which obtains a thickness in excess of 150 metres. Two different types of marble have been documented. The dominant variety is a white to grey-white, fine grained dense marble (known as *Carrara Bianco CD*). Of lesser importance is a grey black marble (similar to but lighter than a *Negro Marquina*). Up to 1/2% pyrite can be disseminated through the marbles.

The white marble is the most abundant, underlying the central and eastern sections of the property, outcropping in two locations, an old road ballast "quarry" and along the rail line. The white marble is a dense, fine-grained white to grey white marble with or without delicate blue-grey veining. The white to grey-white colorations give the stone a lot of contrast, yielding a very attractive appearance. The structure of the limestone is hard to obtain in the quarry, as most of the fracturing is due to blasting. One possible feature that suggests large blocks could be obtained is the large number of boulders (up to 2 metres by 2 metres in size) pushed over the side of the bank, at the quarry site.

The white marble along the rail line is generally massive, with few joints noted in the 5-15m high faces. The stone is a dense, fine-grained white to grey white marble with or without delicate blue-grey veining, similar to the stone noted in the "quarry site". Again, the white to grey-white colorations give the stone a lot of contrast, yielding a very attractive appearance.

The white marble is locally cut be thin (to 30cm), steeply dipping andesite dykes. These dykes show strong limonite within their contacts, and within 10 centimetres of the contact within the marble.

The contact between the white and black marble is gradational, passing from black to a 50 metre wide zone of interbedded black and white through to white. The bedding looks to be relatively flat (124/10S).

This grey-black to black marble underlies the west-central side of the property, outcropping in two locations, a small "pit" 250 metres west of the white "quarry site" and along the rail line. The medium grey-black marble is very fine grained and dense. The marble carries a small percentage (up to 1%) of white carbonate, as disseminated blebs and clots (to 2cm) and as veinlet and microveinlet stockworks with individual veinlets ranging from 1-10mm. In polished sections the marble has been micro-brecciated and healed with white carbonate.

The grey-black limestone along the rail line is similar in color and texture to that from the "pit", though white carbonate inclusions are nowhere near as abundant. The exposures are massive to broken, with horizontal fractures spaced at 60-100cm and vertical fractures spaced at 60-100cm.

Beaver Trenching

A number of excavator trenches were dug to test the continuity of the white marble. The series of 8 radial trenches excavated ahead of the "quarry" face all located white marble confirming the continuation of color and texture within the white beds. Six trenches were excavated further from the quarry in a loosely defined radius of 150 to 300 metres, with only one reaching bedrock.

As part of the trenching program, the face of the existing white "quarry" was cleaned to allow clear view of the fully exposed section of the white marble, confirming the colour and texture through this section.

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Beaver Diamond Drilling

A total of eight holes were drilled, testing the white marble to a depth of 21-33 metres in roughly rectangular area of 250 by 300 metres. The particulars on each hole follows:

Number	Dip	Depth	Number	Dip	Depth
B93-01	-90	31.4 m	B93-05	-90	21.3 m
B93-02	-90	32.9 m	B93-06	-90	21.9 m
B93-03	-90	21.6 m	B93-07	-90	22.3 m
B93-04	-90	21.3 m	B93-08	-90	16.2 m

All holes reached bedrock except B93-08 which was abandoned at 16.2m. The holes intersected white marble for the most part, though several of the holes passes through a section of interbedded white and grey-black marble. Most of the holes intersected small (0.2 to 3 m) andesite dykes, with the exception of B93-07 which appears to have been drilled on the contact of one of these vertical dykes.

The marble intersected was predominantly the white marble similar to that seen in the "quarry". The color ranges from white to grey-white. The marble is fine-grained, dense and crystalline. Limonite is common near the top of the holes, as would be expected. The only limonite noted at depth is along vertical fractures. The overall appearance of the marble is good. The holes pass through sections of "cloudy" marble, where the contrast between the white and grey-white marble give the stone a good contrast to sections of monotonous grey-white. Stylolites are common, spaced at intervals from 20-100 centimetres.

The core recovery was good, with close to 100% recovery in the marble itself. The cores ranged from massive to broken. The largest percentage of the breaks appears to be due to the drill, as the fractures are roughly parallel and clean. The dominant natural fracture directions appears to be 5-15 degrees to the core axis. These fractures usually exhibit limonite, clays or secondary white carbonate.

The cross sections show the bedding dipping slightly to the south and west, confirming the surface measurements. The grey-black beds are semi-continuous from section to section and are generally less than 1 metre thick. The white to grey-white beds ranging in thickness from 5 metres to in excess of 10 metres. The thicker beds seem to be in the general quarry area.

The andesite dykes intersected are broken green rocks, typically with 2-10% anhedral black phenocrysts of hornblende(?) ranging in size from 2-5mm. The contacts are for the most part sharp and are at 5-25 degrees to core axis, suggesting they are steeply dipping. The appearance, dip and fractured nature are similar to the two dykes noted in the "quarry".

The drilling has shown the area of interest to be the top of a large "knob" of white limestone which drops of abruptly to the southeast. Holes B93-04 and B93-05 intersected 5-7 metres of overburden before reaching the marble, while hole B93-08 failed to reach it to a depth of 16.2 metres.

The results are quite encouraging. Though the marble appears to be broken in the core boxes, much of this breakage can be attributed to drill breakage. The color, texture and appearance is consistent to a depth of \pm 30 metres at least. Holes B93-07 and B93-02 show good solid marble exists immediately ahead of the present quarry face, suggesting this is the best place to excavate some test blocks.

DISCUSSION

The results of the drilling program on the Beaver Claims are most encouraging. The diamond drilling has confirmed the results of the earlier mapping and trenching programs. The white to grey-white marble is consistent to depth and along strike for the most part. The area ahead of the present quarry face seems to be the best location to attempt to excavate test blocks.

An attempt was made to project the massive beds noted along the rail line to road elevation, where they would be easily accessible for the drill. The projection placed the beds through the quarry (B93-01, B93-07) and immediately to the south (B93-02, B93-05, B93-06, B93-08). These holes confirmed theses observations, with intersections in excess of 10 metres of massive white to grey-white marble.

Holes B93-03 and B93-04 were laid out to test the grey-black marble. These two holes intersected only thin beds of grey-black marble, interbedded with much thicker white to grey-white beds.

The depth at which some of these holes intersected bedrock is a puzzle. Holes B93-04, B93-05 and B93-06 intersected 5 to 9 metres of overburden, while hole B93-08 failed to reach bedrock at 16.1 metres. These results explain the poor trenching results from the trenches excavated away from the "quarry", where 5 of the 6 trenches failed to reach bedrock. A prominent ridge or "knob" of white marble appears to trend at approximately 124, the measured strike of the beds. There appears to be a sharp drop-off of 5-10 metres from the edge of this bed to the next one down section, almost like a cliff or a step. The test block excavation should bear this in mind and stay within the ridge, to avoid the un-necessary removal of large volumes of overburden.

The next step is to cut a number of rough quarry blocks from the white marble. The purpose is to ensure quarry size blocks (2.4*1.8*1.8m or 8*6*6ft) can be successfully excavated and to ensure the excavated blocks can be successfully processed into end use products (tiles and face-finished slabs).

The most accessible place to begin the excavation is within the ridge, within the existing quarry. This will involve the stripping of overburden ahead of the quarry face and then removing the rubble from the face. After this is completed a series of blocks should be cut, initially by percussion drilling (airtrack), and stockpiled for shipment to a processing facility.

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CONCLUSIONS AND RECOMMENDATIONS

The diamond drilling program completed on the Beaver claims confirmed the continuity of white marble to depth and long strike, with a prominent ridge of marble identified. This drilling indicated the white marble beds are in the range of 5 to 10 metres in thickness, with most of the beds being toward the upper end in thickness. The drilling also confirmed the grey-black marble is predominantly in thinner (30-100 cm) beds, of little use for dimension stone.

The final step is to test the ridge of white marble to ensure marketable quarry blocks of an approximate 2.4*1.8*1.8m (8*6*6 ft) size can be consistently quarried. A program designed to cut a number of test blocks is recommended.

The best location to undertake the program is within the existing quarry site, on the north and/or east wall. Initially the overburden ahead of the quarry face will need to be removed by D8 cat and excavator. The debris on the present quarry face will have to be cleaned and removed by the excavator. An airtrack drill will then be required to drill out the actual test blocks by channel drilling the 3 sides and the sill. The blocks will then be removed and stockpiled, until a facility can be found to process them.

The total cost of this block-cutting program is estimated at \$77,913.

The total cost of the completed diamond drilling program was \$22,908.54

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STATEMENT OF QUALIFICATIONS

I, R.Tim Henneberry, am the principle of Mammoth Geological Ltd., a geological consulting firm with offices at #1 - 5745 Hardy Bay Road, Port Hardy, B.C. The mailing address is Box 14, Coal Harbour, B.C. VON 1K0.

I earned a Bachelor of Science Degree majoring in geology from Dalhousie University, graduating in May 1980.

I have practiced my profession continuously since graduation.

I am registered with the Association of Professional Engineers and Geoscientists in the Province of British Columbia as a Professional Geoscientist. I am also a Fellow of the Geological Association of Canada.

I supervised the drilling program described in this report on the following 1993 dates: October 29 to November 1 and December 8-22.

I am presently the registered owner of the Beaver 1-2 and Beaver 3-4 mineral claims. I am holding them in trust for Panorama Natural Stone Ltd.

I am a principle of Panorama Natural Stone Ltd. I presently directly hold 500,000 escrow shares and 15,010 common shares. Mammoth Geological Ltd. presently directly holds 8,600 common shares.

This report may be used for any purpose normal to the business of Panorama Natural Stone Ltd., provided no part is used in such a manner to convey a meaning different than that set out in the whole.

_ in the Town of Port Hardy, British Columbia. Dated this _ day of _



STATEMENT OF COSTS

Beaver Property					
Field Dates	Oct 29-31, Nov 1, I	Dec 8-22			
Report Dates	Dec 23-24, 28-31				
Project Manager		19 days	@	450.00 /day	\$8,550.00
Vehicles		19 days	@	50.00 /day	\$950.00
Room and Board					\$108.54
Drill Mob/Demob					\$700.00
Drill footage	e	520 ft	@	15.00 /ft	\$9,300.00
Excavator Hours		12 hrs	@	50.00 /hr	\$600.00
Documentation		6 days	@	450.00 /day	\$2,700.00

Beaver Property Costs

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\$22,908.54

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COST ESTIMATES

Test Block Cutting Budget for the Beaver Claims

BEAVER CLAIMS				
15 day duration - from Port Hardy				
Excavator Hours	100 hrs	@	140.00 /hr	\$14,000
Cat	100 hrs	@	140.00 /hr	\$14,000
Drilling				
Airtrack	15 days	@	400.00 /day	\$6,000
Compressor	15 days	@	400.00 /day	\$6,000
Consumables	-		-	\$6,000
Project Manager	15 days	@	450.00 /day	\$6,750
Geologist	15 days	@	350.00 /day	\$5,250
Support	30 days	@	75.00 /day	\$2,250
Vehicle	15 days	@	50.00 /day	\$750
Documentation	15 days	@	450.00 /day	\$6,750
Contingency (15%)				\$10,163

BEAVER CLAIMS TEST BLOCK CUTTING BUDGET

\$77,913

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Property	Beaver		Azimuth Number B93-01
Northing	1058 N		Dip -90 Commenced Oct 30/93
Easting	942 E		Core Size NQ Completed Nov 01/93
Elevation	900 m		Length 103 ft. (31.4m) Logged By RTH
Lithology		Recovery	
From To	From	То	Description
Logged in f	Eeet		
0.0 37.0			Grey White to White Marble
(11.3r	n) 0.0	8.0 7.6	Grey white densely crystalline white marble. Stylolites
•	-		spaced at 1-2 foot intervals. Color actually grades
			between a grey-white and a white-grey. In sections, the
			contrast between the grey-white and white-grey gives
			the core an attractive appearance.
			- 0.0- 9.0 - extremely broken core. Fractures at
			60-70 c.a. Minor limonite
	8.0	18.0 10.0	- 9.8 - Natural break 90 c.a.
			- 10.6 - Natural break 75 c.a.
			- 11.2 - Natural break 90 c.a. ,0.1 ft ground core
			- 11.7 - Natural break 75 c.a.
			- 15.7 - Natural break 85 c.a.
			- 16.2 - Natural break 90 c.a.
	18.0	28.0 10.0	- 20.7 - Natural break 5 c.a., limonite
			- 23.2 - Natural break (?) 65 c.a., clean
			- 25.0 - Natural break 5 c.a., limonite
			- 27.1 - Natural break (?) 85 c.a., clean
	28.0	38.0 10.0	- 32.4 - Natural break 85 c.a., clean
			- 34.1 - Natural break 35 c.a., clays
			- 36.4 - Natural break 45 c.a., clean
37.0 42.0			Grey-black Marble.
(12.8	n) 38.0	48.0 10.0	Dense, grey-black marble with abundant stylolites.
•	•		Minor white carbonate stringers at 20 c.a.
			- 38.6 - Natural break 15 c.a., white carbonate, clays

From To From то Description Grey White to White Marble 42.0 54.0 rey White to White Marble As 0.0 to 37.0 - 43.2 - Natural break 5 c.a., clays, limonite - 43.8 - Natural break 35 c.a., clays - 46.5 - Natural break 35 c.a., clays - 46.9 - Natural break 5 c.a., clays, limonite - 48.9 - Natural break 5 c.a., clays, limonite fracture parallels core to 51.2 - 52.6 - Natural break 5 c.a. clays (16.5m) 48.0 58.0 10.0 - 52.6 - Natural break 5 c.a., clays
- 53.0 - Natural break 60 c.a., clays
- 53.8 - Natural break 80 c.a., limonite 54.0 63.0 Andesite Dyke Upper contact 85 c.a, lower contact 65 c.a. (19.2m) Green color, 1-5% black anhedral phenocrysts to 5mm. Vertical fracturing as in the marble, though fractures filled with clay. - 58.9 - Natural break 50 c.a., clays and carbonate - 61.0 - Natural break 5 c.a., clays and carbonate 58.0 68.0 10.0 Grey White to White Marble As 0.0 to 37.0 - 67.8 - Natural break 20 c.a., clays and carbonate 63.0 103.0 (31.4m) Natural break 20 c.a., clays and carbonate
Natural break 15 c.a., clays
Natural break 20 c.a.
Natural break 25 c.a., clays
Natural break 25 c.a.,
Natural break 5 c.a., clays and carbonate fracture in core until 74.9 68.0 78.0 10.0 - 68.1 - 70.0 - 71.0 - 72.0 - 73.0 - Natural break 15 c.a., clays - Natural break 20 c.a., clays 78.0 88.0 10.0 - 85.5 - 86.5 - 87.2 - Natural break 45 c.a., clays Natural break 30 c.a., clays
 Natural break 65 c.a., clean
 Natural break 5 c.a., clean
 Natural break 10 c.a., clean - 91.5 - 94.2 - 95.1 -102.9 -103.0 - End of Hole

Lithology

Recovery

RAA

Property Northing Easting Elevation	Beaver 1000 N 1000 E 906.4m		AzimuthNumberB93-02Dip-90CommencedNov 02/93Core SizeNQCompletedNov 04/93Length108 ft. (32.9m)Logged ByRTH
Litholog From T Logged in	y : o F ro m feet	Recovery To	Description
0.0 9.	0 7m)		Overburden
9.0 45 . (13.	7 9m) 9.0	18.0 9.0	Grey White to White Marble Grey white densely crystalline white marble. Stylolites spaced at 1-2 foot intervals. Color actually grades
			between a grey-white and a white-grey. In sections, the contrast between the grey-white and white-grey gives the core an attractive appearance.
			– 9.0 – Natural break 5 c.a., limonite, dirt – 11.9 – Natural break 60 c.a., clays, soil – 15.0 – Natural break 20 c.a., clays, dirt
	18.0	28.0 10.0	- 25.5 - Natural break 5 c.a., minor clays, limonite - 27.3 - Natural break 25 c.a., minor clay
	28.0	38.0 10.0	- 36.8 - Natural break 5 c.a., clean
	38.0	48.0 10.0	- 43.2 - Natural break 5 c.a., clean
45.7 50.	0		Grey-black Marble.
(15.	2m)		Dense, grey-black marble with abundant stylolites. Minor white carbonate stringers at 20 c.a.
			Lower contact 50 c.a.
	48.0	58.0 10.0	- 40.8 - Natural Dieak ou c.a., clays
50.0 59.	0		Andesite Dyke
(18.	0m)		Upper contact 75 c.a, lower contact 40 c.a.
			Well altered with chlorite. Vertical fracturing as in
			the marble, though fractures filled with clay.
			- 50.0 - Natural break 35 c.a., clean
			- 51.6 - Natural break 35 c.a., white carbonate, clays
			- 53.8 - Fault
			- 57.0 - Natural break 5 c.a., white carbonate
	58.0	68.0 10.0	- 58.0 - Natural break 10 c.a., clean

Lithology Recovery ł From To From To Description Grey White to White Marble 59.0 80.0 As 9.0 to 45.7 (24.4m)- 59.2 - Natural break 10 c.a., clays, limonite - 62.0 - Natural break 5 c.a., clean fracture in core until 63.0 - 63.0 - Natural break 20 c.a., clays, limonite - 64.0 - Natural break 5 c.a., clean - 65.0 - Natural break 10 c.a., clays - 65.8 - Natural break (?) 70 c.a., clean - 67.0 - Natural break 25 c.a., clays - 70.0 - Natural break 5 c.a., clean fracture in core until 72.50 - Natural break 10 c.a., clean - 72.7 73.5 - Natural break 5 c.a., clean
74.8 - Natural break 15 c.a., clean
77.5 - Natural break 20 c.a., clean 78.0 88.0 10.0 80.0 84.0 Grey-black Marble. (25.6m) As 45.7 to 50.0 - 82.0 - Natural break 10 c.a., clays - 83.3 - Natural break 75 c.a., clean 84.0 101.0 Grey White to White Marble As 9.0 to 45.7 - 84.6- 84.9 - Fault 10 c.a. (30.8m) - 89.0 - Natural break 25 c.a., clays - 90.7 - Natural break 10 c.a., clean 88.0 98.0 10.0 90.7 - Natural break 10 c.a., Clean with 1.0 feet of broken core
92.3 - Natural break 10 c.a., clean
93.1 - Natural break 50 c.a., clays
94.3 - Natural break 10 c.a., clays with 1.0 feet of broken core 98.0 108.0 10.0 - 98.4 - Natural break 10 c.a., clays, carbonate - 99.6 - Natural break 20 c.a., clays, carbonate 101.0 103.0 Grey-black Marble. (31.4)As 45.7 to 50.0 -102.4 - Natural break 30 c.a., clays, carbonate with 1.5 feet of broken core -103.0 - Natural break 30 c.a., clays, carbonate

					B93-02
Lith	ology	R	lecovery		
From	То	From	То	Description	
103.0	108.0			Grey White to White Marble	
	(32.9)			As 9.0 to 45.7	
				-104.6 - Natural break 60 c.a., clean	
				-108.0 - End of hole	

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Propert North	y B Ing	eaver 915 N			Azimuth Dip	-90		Number Commenced	B93-03 Dec 12/93
Eastin	ng ton	764 E 903 6m			Core Size	NQ 71 ft	(21.6m)	Completed Logged By	Dec 13/93 RTH
DIEVa		903.0m			hengen	/_ 10.	(21.0m)	209900 -7	
Litho	ology	1	Recove	ry					
From Logged	To 1 in fe	From et	То		Descr	iption			
0.0	2.0 (0.6m)				Casing				
2.0	7.5				Grey-black M	arble.			
	(2.3m)	2.0	11.0	9.0	Dense, gre broken wit	y-black h no pie	marble. Extract larger the	remely brecciat an 4 inches.	ed and
7.5	21.0				Grev White t	o White	Marble		
	(6.4m)	11.0 16.0	16.0 21.0	5.0 3.0	Grey white spaced at between a contrast h the core a Core is we two domina 10-30 c 70-90 c - 10.0 - 10.5 - - 11.3 - - 16.0-21. bigger tha	densely 1-2 foot grey-whi between the between the be	y crystalline intervals. the grey-whit the grey-whit trive appeara en as above w trions: atural limoni cill induced fracture 10 fracture 10 fracture 60 brecciated nes. Limonite	white marble. Color actually ite-grey. In se- ce and white-gr nnce. with fractures itic fractures clean fractures c.a., limonit c.a., limonit c.a., limonit and broken wit e and clays.	Stylolites grades ctions, the ey gives in s e e e h no piece
21.0	24.3				Grey-black M	arble.			
	(7.4m)	21.0	26.0	5.0	As 2.0 to Well fract - 21.8 - - 22.9 - - 23.9 - - 24.5 -	7.5., co ured with Natura Natura Natura	ontact 75 c.a ch minor whit fracture 30 fracture 30 fracture 5 fracture 40	A. ce carbonate.) c.a., clean) c.a., clean c.a., clays) c.a., clean	

Description

Lithology

То

From

Recovery

То

From

31.2 Grey White to White Marble 24.3 (9.5m) As 7.5 to 21.0 - 25.1 - Fault - 25.4 - Natural fracture 10 c.a., clean 27.8 - Natural fracture 25 c.a., clays
29.5 - Natural fracture 30 c.a., limonite
30.6 - Natural fracture 40 c.a., clean 26.0 31.0 5.0 31.2 36.1 Grey-black Marble. 31.0 36.0 5.0 As 2.0 to 7.5., contact 90 c.a. (11.0)Minor white carbonate, broken but more massive than above blacks. - 32.7 - Natural fracture 10 c.a., clays with 1.0 feet of broken core - 34.4 - Natural fracture 10 c.a., clays - 35.3 - Natural fracture 10 c.a., clays 36.0 41.0 5.0 Grey White to White Marble As 7.5 to 21.0 36.1 37.2 (11.3) 37.2 38.3 Grey-black Marble. As 2.0 to 7.5., contact 90 c.a. (11.7)Minor white carbonate, broken but more massive than above blacks. 38.3 71.0 Grey White to White Marble (21.6) As 7.5 to 21.0, contact 80 c.a. - 38.3 - Natural fracture 10 c.a., clays, limonite - 39.0 - Natural fracture 20 c.a., clays, limonite - 39.6 - Natural fracture 20 c.a., clays, limonite - 42.1 - Natural fracture 10 c.a., clays, limonite - 43.0 - Natural fracture 10 c.a., clays, limonite 41.0 46.0 5.0 - Natural fracture 25 c.a., clays, limonite - 44.7 fracture in core to 46.0 - 46.9 - Natural fracture 20 c.a., clean - 48.8 - Natural fracture 60 c.a., clays, limonite 46.0 51.0 5.0 51.0 56.0 5.0 - 51.0-51.5 - Fault - 53.0 - Natural fracture 50 c.a., clays fracture in core to 56.0 - Satural fracture 30 c.a., clays, limonite
- 60.1 - Natural fracture 20 c.a., clays
- 68.6 - Natural fracture 20 c.a., clays, chlorite
- 69.5 - Natural fracture 10 c.a., limonite
- 71.0 - End of hole 56.0 61.0 5.0 61.0 66.0 5.0 66.0 71.0 5.0

Property Northing Easting Elevation	Beaver 922 N 840 E 903.3m	ı	Azimuth Dip -90 Core Size NQ Length 70 ft.	(21.3m)	Number Commenced Completed Logged By	B93-04 Dec 15/93 Dec 16/93 RTH
Lithology From To Logged in	, From feet	Recovery To	Description			
0.0 12.0) /m \		Overburden			
12.0 17.0 (5.2	m) ?m)		Overburden / Clay Dark grey black cl and dark marble ar	ay with subhed d andesite. (A	ral fragment: lteration zon	s of light ne?)
17.0 18.2 (5.6	: 5m) 17.0	22.0 4.5	Andesite Broken and ground Mostly cobbles and	andesite dyke. I pebbles.		
18.2 25.8 (7.9	9 9m) 22.0	27.0 5.0	Grey-black Marble. Dense, fine-graine Minor clots of whi - 18.5 - Natural - 22.0 - Natural - 23.5 - Natural fractu	ed, grey-black te carbonate. fracture 5 c. fracture 15 c fracture 15 c ure in core to	marble. a., clays, 1: .a., clays, (.a., clays, (25.0	imonite carbonate carbonate
25.8 60.8 (18.5) 5m)		Grey White to White Grey white densely spaced at 1-2 foot between a grey-whi contrast between t	Marble crystalline w intervals. Co te and a white he grey-white	hite marble. lor actually -grey. In see and white-gre	Stylolites grades ctions, the ey gives
	27.0	32.0 5.0	the core an attrac - 27.0 - Natural	tive appearanc fracture 15 c	e. .a., minor 1: 20 c.a., mino	imonite or clay
	32 0	37 0 5.0	- 33.6 - Natural	fracture 15 c	.a., minor c	lav
	37.0	42.0 4.8	- 36.5 - Natural with 1	fracture 5 c.	a., clays, l ken core	imonite
	42.0	47.0 5.0	- 44.4 - Natural - 47.8 - Natural	fracture 35 c fracture 25 c	.a., minor c .a., clean	lay, carbonate

Lithology			Recovery						
From	То	From	То	Description					
25.8	60.8 (18.5m)			Grey White to White Marble (Continued)					
		47.0	52.0 5.0	- 53.9 - Natural fracture 30 c.a., clean					
		52.0	57.0 5.0	- 55.6 - Natural fracture 40 c.a., clean					
				- 56.1-56.3 - Broken core					
				- 56.9-57.0 - Broken core					
		57.0	62.0 5.0						
60.8	61.7			Grey-black Marble.					
	(18.8m)			As 18.2 to 25.8, contact 80 c.a.					
	. ,			above blacks.					
61.7	70.0			Grey White to White Marble					
	(21.3m)			As 25.8 to 60.8					
	, ,			- 62.4 - Natural fracture 20 c.a., clean					
				- 65.6 - Natural fracture 10 c.a., clean					
				- 70.0 - End of Hole					
				- 65.6 - Natural fracture 10 c.a., clean - 70.0 - End of Hole					

PHA

Proper	ty B	eaver			Azimuth				Nun	ber	I	B93-05
North	ing	967 N			Dip		-90		Сол	menced	Dec	18/93
Easti	ng	870 E			Core Size		NQ		Con	pleted	Dec	19/93
Eleva	tion	903.Om	L I		Length	70	ft.	(21.3m)	Log	ged By		RTH :
Lith	ology		Recove									ļ
From	TO TO	From	TO TO	-1	Desc	rinti	070					
Logge	d in fe	et			2020							
0.0	10.0				Overburden							
	(3.0m)											
10.0	27.0				Road Cobble:	9						
	(8.2m)	12.0	17.0	0.9	White and	blac	k ma	arble and	granite co	bbles		
		17.0	22.0	0.9	- 12.5-2	7.0 -	col	obles lef	t and clays	washed	l away	Y (?)
		22.0	27.0	1.9								
27.0	29.0				Andesite							
	(8.9m)	27.0	32.0	3.5	Broken and Mostly col	d gro bbles	und and	grey gre 1 pebbles	en andesite •	dyke.		
29.0	31.0				Grev-black	Marbl	е.					
	(9.4m)				Dense, fin Well brok	ne-gr en, t	ain. houg	ed, grey- gh not br	black marbl ecciated. F	.e. Tacture	s 25	c.a.
31.0	33.8				Grev White	to Wb	ite	Marble				
	(10.3m)	32.0	37.0	5.0	Grey whit spaced at between a contrast i the core	e der 1-2 grey betwe an at	foot -wh: en t	y crystal t interva ite and a the grey- ctive app	line white ls. Color a white-grey white and w earance.	marble. Ictually 7. In se 7hite-gr	Styl grad ction cey gi	lolites ies ns, the ives
33.8	37.4				Grey-black	Marbl	е.					
	(11.4m)	37.0	42.0	4.5	As 29.0 to - 37.4	o 31. - Nat	0 ura:	l fractur	e 35 c.a.,	clays,	limor	nite

Lithology Recovery Description From From То то 37.4 70.0 (21.3m) Grey White to White Marble As 31.0 to 33.8 Color seems to fluctuate between white and grey-white with veined zones. Strongly stylolitic. - 38.9 - Natural fracture 40 c.a., limonite - 39.8 - Natural fracture 60 c.a., limonite - 42.8 - Natural fracture 70 c.a., limonite, clays with 0.3 feet of broken core - 45.9 - Natural fracture 75 c.a., limonite - 46.2 - Natural fracture 50 c.a., limonite - 47.0 - Natural fracture 50 c.a., limonite - 48.8 - Natural fracture 70 c.a., limonite with 0.7 feet of broken core - 50.0 - Natural fracture 15 c.a., limonite, clay - 52.0-54.0 - blotchy limonite on core Color seems to fluctuate between white and grey-white, 42.0 47.0 5.0 47.0 52.0 5.0 - Solo - Natural fracture is c.a., findnite
- 52.0 - 54.0 - blotchy limonite on core
- 52.2 - Natural fracture 80 c.a., limonite
- 53.9 - Natural fracture 30 c.a., clays with 0.3 feet of broken core
- 67.4 - Natural fracture 80 c.a., limonite
- 69.5 - Natural fracture 75 c.a., limonite
- 70.0 - End of Hole 52.0 57.0 5.0 57.062.05.062.067.05.067.070.03.0



B93-05

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Proper North	ty Bo ning S	eaver 1004 N 930 F			Azimuth Dip -90 Core Size NO	Number B93-06 Commenced Dec 19/93 Completed Dec 20/93
Eleva	ation	904.5m			Length 72 ft. (21.9m)	Logged By RTH
_Lit1	lology	_ :	Recove	гу		
Logge	TO ad in fe	et	10		Description	
0.0	13.0 (3.9m)				Casing / Overburden	
13 0	20.9				Andesite	
10.0	(6.4m)	13 0	18 0	1.9	Semi-massive to well breccia	ted green andesite dyke.
	(0.444)	18.0	22.0	4.0	Local rubble sections, verti	cal fractures (5 c.a.)
					- 19.9 - 1.0 foot clay gou	ge on lower contact of dyke
20.9	72.0				Grey White to White Marble	
	(21.9m)	22.0	27.0	4.4	Grey white densely crystalli	Color actually grades
					between a grou white and a w	hite-grov In sections, the
					between a grey-white and a w	ite and white grey gives
					the core an attractive annea	ranco
					The marble is more broken t	han in previous holes.
					There is abundant limonite	near collar
					-21.0-37.0 - Well broken a	nd fractured (5-15 c.a.)
		27.0	32.0	4.1	and (60-80 c	.a.). All show strong
		32.0	37.0	2.4	limonite.	
					Solid core begins at 35 fee	t.
					- 35.0 - Natural fracture	5 c.a., clays, limonite
					- 36.7 - Natural fracture	5 c.a., limonite
		37.0	42.0	5.0	- 37.4 - Natural fracture	5 c.a., minor clays
					- 38.7 - Natural fracture	5 c.a., minor clays
					- 39.5 - Natural fracture	20 c.a., minor limonite
					- 40.9 - Natural fracture	10 c.a., minor clays
		42.0	47.0	5.0	- 42.0-47.0 - pressure stra	in in core
					- 47.5 - Natural fracture	60 c.a., clays, limonite
		47.0	52.0	5.0	- 49.2 - Natural fracture	40 c.a., limonite
					- 50.7 - Natural fracture	10 c.a., clays
					- 51.4 - Natural fracture	5 c.a., clays
		52.0	57.0	5.0	- 57.5 - Natural fracture	60 c.a., clean
					with 0.2 feet of	Droken Core
		57.0	62.0	5.0	- 60.0 - Natural fracture	40 c.a., clean
					- 61.5 - Natural fracture	25 C.a., Clays

Lithology	Recovery	
From To	From To	Description
20.9 72.0 (21.9m)		Grey White to White Marble (Continued)
	62.0 67.0 5.0	- 62.8 - Natural fracture 10 c.a., clean - 64.1 - Natural fracture 10 c.a., clean - 67.5 - Natural fracture 15 c.a., clays
	67.0 72.0 5.0	 - 68.9 - Natural fracture 20 c.a., clean - 69.4 - Natural fracture 20 c.a., limonite - 70.2 - Natural fracture 30 c.a., clean - 72.0 - Natural fracture 20 c.a., limonite - 72.0 - End of hole

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Propert Northi Eastin Elevat	y : ng g ion	Beaver 1058 N 1003 E 902.8m	L		Azimith Dip Core Size Length	-90 NQ 73 ft.	(22.2m)	Number Commenced Completed Logged By	B93-07 Dec 21/93 Dec 21/93 RTH
Litho	logy	-	Recove	ry					
From Logged	in f	eet	10		Descri	ption			
0.0	2.0 (0.6m	۱			Casing				
2.0	24.5	,			Grev White to	White	Marble		
	(7.5m) 0.0	8.0	6.0	Grev white	densely	crystallin	e white marble.	Stylolites
		8.0	13.0	5.0	spaced at 1 between a- contrast be	-2 foot 1.0 foo tween t	t intervals. It clay gouge the grey-white	Color actually e on lower conta te and white-gre	grades act of dyke ay gives
		13.0	18.0	5.0	the core an - 15.9 - - 16.1 -	Natural Natural	fracture 4 fracture 4	ance. 0 c.a., clays, 1 0 c.a., clays, 1	limonite Limonite
		18.0	23.0	5.0	- 18.1 -	Natural fractu	fracture 5 re parallel	c.a., clays, 1 s core to 21.5	monite
		23.0	28.0	5.0	- 22.5 -	Natural	fracture 5	c.a., limonite	2
24.5	28.5 (8.7m	.) 28.0	33.0	5.0	Grey Black Ma Dense, grey only 6 inch entire sect - 25.2-26.	rble -black es. Fra ion. 0 - con dyl coa pha	marble. Bro acturing is p the parallels the and limes arse-grained anocrysts.	ken, with larged parallel to c.a dyke contact w tone in core. D with abundant l	st piece . through lth both /ke is olack
28.5	30.2 (9.2m	.)			Grey White to As 2.0 to 2 - 28.5 -	White 4.5 Natura:	Marble fracture 2	0 c.a., clays	

Lithology Recovery From То From То Description 30.2 40.0 Andesite Dyke (upper 75 c.a. sharp; lower broken) (12.1m) 33.0 38.0 5.0 38.0 43.0 5.0 Broken green dyke with 2-5% black 2-5mm phenocrysts. Dominant fractures 5-20 c.a. with carbonate 70-90 c.a. with limonite White carbonate on fractures and selvages. 40.0 42.4 Grey White to White Marble As 2.0 to 24.5 Extremely broken and silicified. No piece larger than (12.9m) 4 inches. Abundant fracture carbonate. 42.4 52.7 Andesite Dyke (upper 15 c.a. sharp; lower 15 c.a. sharp) - 47.5-49.2 - Fault (16.1m) 43.0 48.0 5.0 48.0 53.0 5.0 52.7 73.0 Grey White to White Marble As 2.0 to 24.5 - 52.7-53.4 - Fault - 54.5 - Natural fracture 25 c.a., limonite - 54.6 - Natural fracture 5 c.a., limonite - 56.4 - Natural fracture 35 c.a., clean - 59.9 - Natural fracture 10 c.a., clean - 61.4 - Natural fracture 25 c.a., carbonate 53.058.05.058.063.05.063.068.05.068.073.05.0 (22.2m) - 62.3-63.1 - Fault - 62.3-65.1 - Failt
- 64.7 - Natural fracture 25 c.a., clean
- 65.5 - Natural fracture 35 c.a., carbonate
- 67.5 - Natural fracture 30 c.a., clean
- 68.3 - Natural fracture 50 c.a., clean
- 72.4 - Natural fracture 30 c.a., limonite

- 73.0 End of Hole

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Property	Beaver	Azimuth		Number	B93-08
Northing	930 N	Dip	-90	Commenced	Dec 21/93
Easting	1050 E	Core Size	NQ	Completed	Dec 22/93
Elevation	907.2m	Length	53 ft. (16.2m)	Logged By	RTH
Lithology	Recoverv				

Description

From To From To Logged in feet

0.0 53.0 (16.2m) Overburden / Clay Dark grey black clay with subhedral fragments of light and dark marble and andesite. (Alteration zone or an accumulation of river debris?) - 53.0 End of Hole

This hole was abandoned at 53 feet without reaching marble.



















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