REPORT
on the
TIDEWATER PROPERTY
SKEENA MINING DIVISION
BRITISH COLUMBIA
for
RICHMARK RESOURCES LTD.

LATITUDE 55° 8'N
LONGITUDE 129° 4'W
NTS 103P/5E

GEOLOGICAL BRANCH
ASSESSMENT REPORT

17,842

J.L. LeBel, P.Eng.
E.O. McCrossan, Geologist
August 26, 1988

OREQUEST

OREQUEST CONSULTANTS LTD. 404 - 595 Howe Street, Vancouver, B.C., Canada, V6C 2T5 Telephone: (604) 688-6788

SUMMARY

A diamond drilling program of 2004 feet (611 m) was carried out on the Richmark Resources Ltd. Tidewater Property, located on Alice Arm, in the Skeena Mining Division, B.C. during May and June of 1988.

The targets of the drilling program were several, small base-precious metal quartz veins revealed by blasting and trenching during the fall of 1987. The target quartz veins and numerous shear zones were intersected by the drill. Silver values ranging from 7.86 to 25.79 oz/t and gold values up to .071 oz/t were associated with base-precious metal quartz veins and quartz breccias.

A detailed soil sampling and a limited testing program using a small, portable drill is recommended to seek additonal base-precious metal quartz veins or quartz breccias within the Tidewater stock and the Hazelton sediments adjacent to the stock.

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INTRODUCTION

This report presents the results of a diamond drilling program carried out on the Tidewater Property located at the head of Alice Arm (Observatory Inlet) along the north coast of British Columbia.

The program was designed to evaluate the precious metal potential of the property which was ignored by previous operators who were primarily interested in molybdenum.

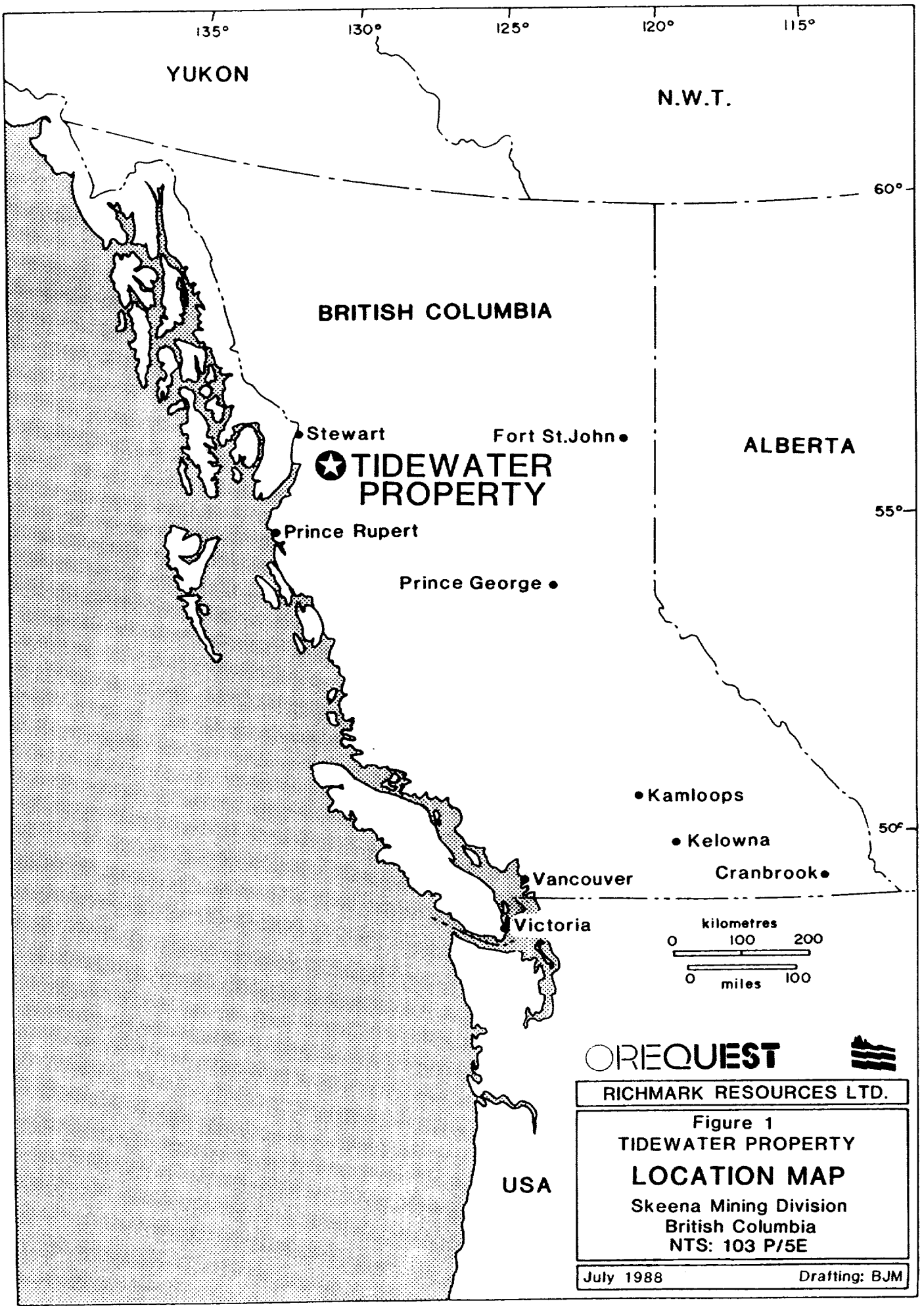
The work was done by OreQuest Consultants Ltd. A total of 2004 feet (611 m) of core was drilled and sampled during June of 1988.

LOCATION AND ACCESS

The Tidewater Property is located on Alice Arm at the head of Observatory Inlet on the north coast of British Columbia about 140 km north of Prince Rupert on NTS map 103 P 5 at latitude 55°28'N and longitude 129°34'W (Fig. 1).

The coastal village of Alice Arm is 4 km northeast of the property and Kitsault Mine, site owned by Amax of Canada, is 4 km southeast of the property.

Access to the property is via float plane to Kitsault then via helicopter or boat to the property. Road access to Kitsault from the Stewart Cassiar Highway (37) is also possible but permission to use the Kitsault Mine portion of the road must be obtained from AMAX and an appointment to open a gate must be made with the caretaker at Kitsault.


135°
130°
125°
120°
115°
YUKON
N.W.T.
60°
BRITISH COLUMBIA
Stewart
Fort St.John
ALBERTA
TIDEWATER
PROPERTY
55°
Prince Rupert
Prince George
Kamloops
Kelowna
50°
Vancouver
Cranbrook
Victoria
kilometres
0 100 200
0 miles 100
USA
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RICHMARK RESOURCES LTD.
Figure 1
TIDEWATER PROPERTY
LOCATION MAP
Skeena Mining Division
British Columbia
NTS: 103 P/5E
July 1988
Drafting: BJM

CLAIM STATUS

The Tidewater Property is composed of 3 claims and 2 reverted crown grants which encompass a nominal area of 400 hectares (Fig. 2). The claims are situated in the Skeena Mining Division on NTS map 103 P 5 at latitude 55°28'N and longitude 129°34'W. Status of the claims is as follows.

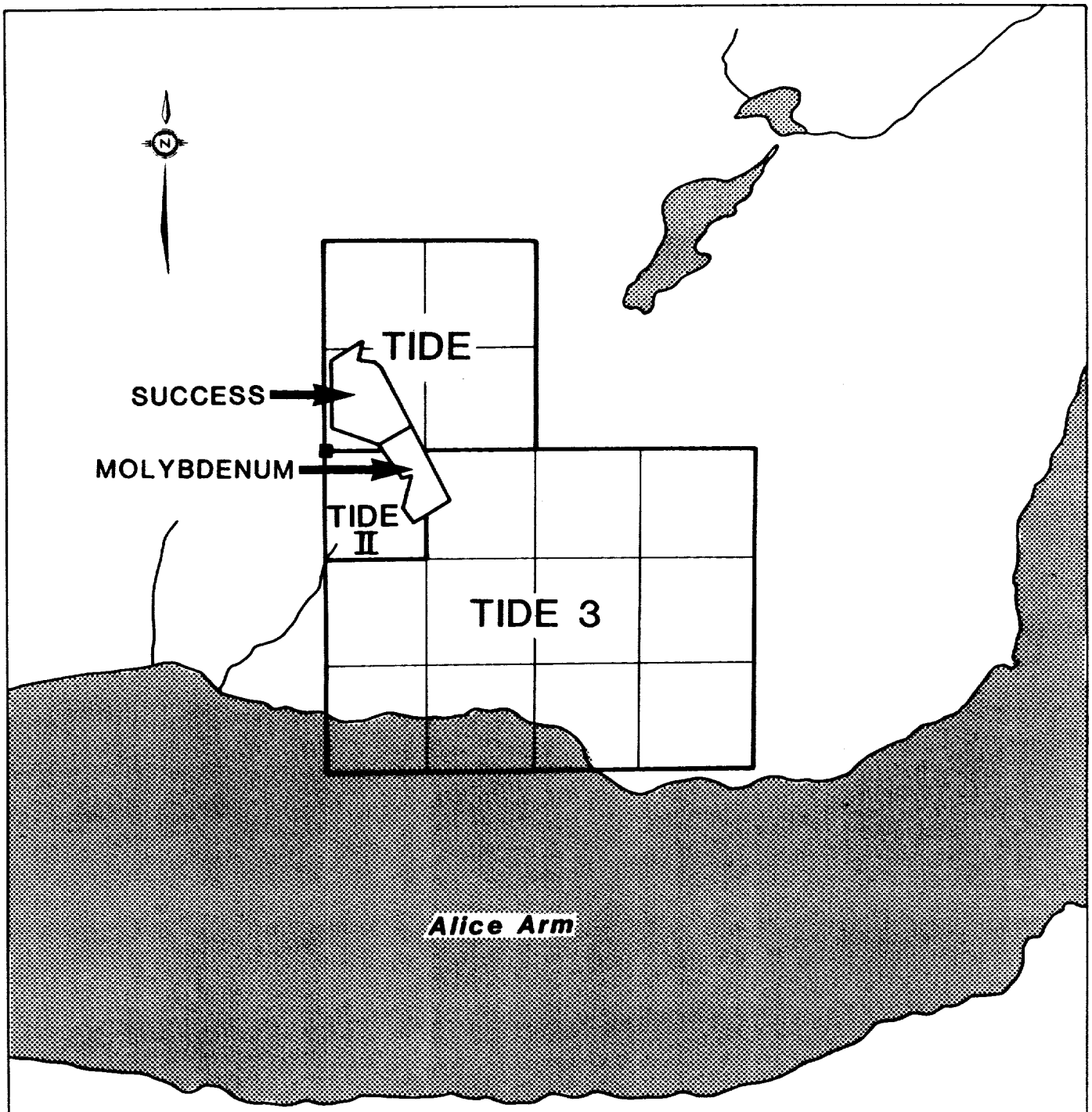
Claim Name	Record No.	No. of Units	Area (ha)	Anniversary Date
Tide 3	1299	12	300	April 18, 1991
Tide	395	4	100	July 20, 1991
Tide 2	396	1	25	July 20, 1991
Molybdenum	374	1	25	June 28, 1991
Success	375	1	25	June 28, 1991

The claims are owned by Richard Dunn who under an option agreement has granted Richmark Resources Ltd. the role as exclusive optionee to earn a 100% interest in the property subject to a 2% Net Smelter Return.

PHYSIOGRAPHY AND VEGETATION

Topography on the property is moderate to steep with elevations ranging from sea level to about 2,500 ft. The slopes are deeply incised by a series of precipitous creek canyons.

Vegetation is typical of the Coast Range Mountains and consists of mature stands of spruce and fir at lower elevations. Yellow cedar and alpine fir with tangled undergowth of alder and huckleberry occur at higher elevations.



0 1 2

kilometres

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Figure 2
TIDEWATER PROPERTY

CLAIM MAP

Skeena Mining Division
British Columbia
NTS: 103 P/5E

July 1988 Drafting: BJM

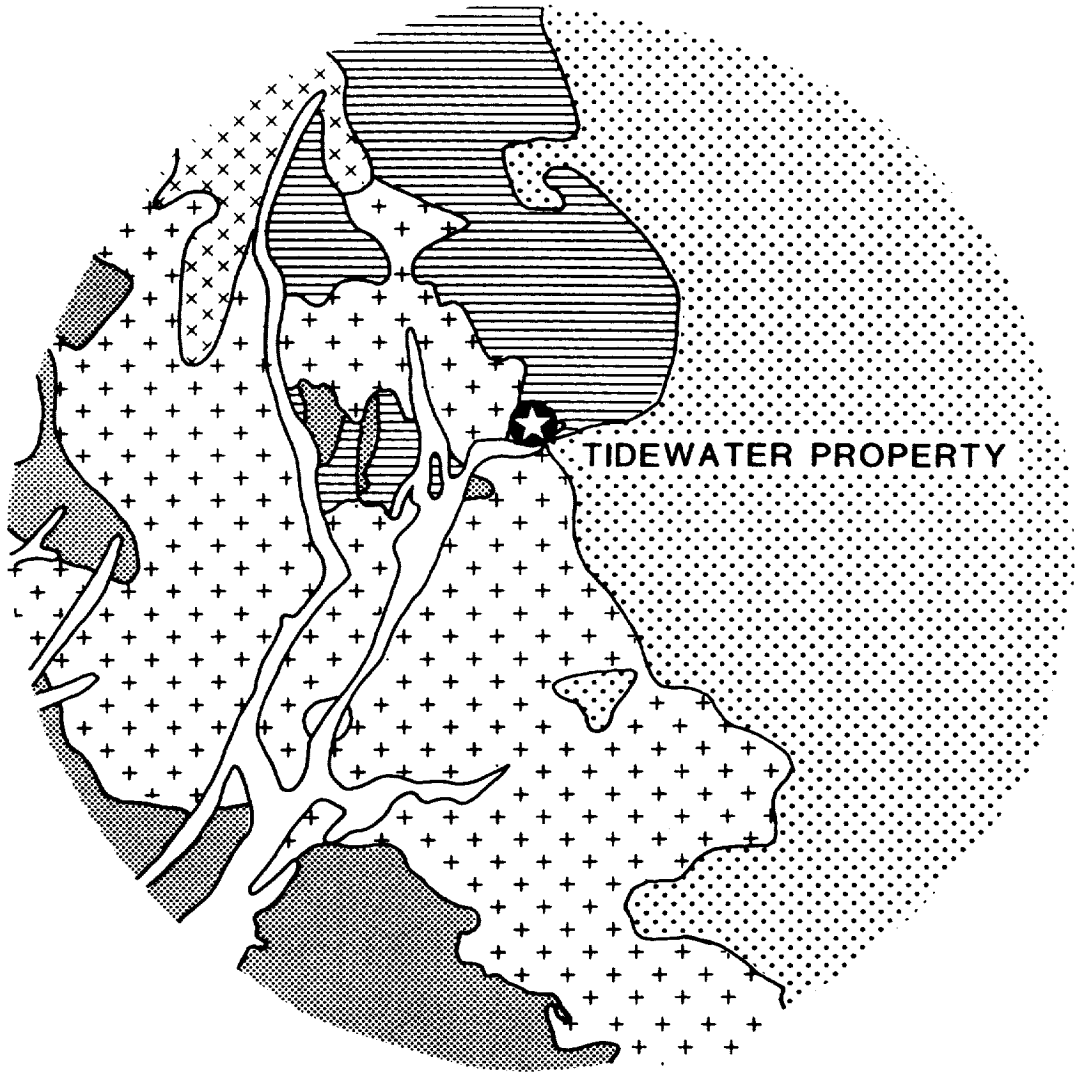
REGIONAL GEOLOGY AND MINERALIZATION

The Alice Arm area is at the south end of the Stewart Complex (Grove, 1972, 1986). The area is underlain by the Jurassic, Hazelton Group metasediments and metavolcanics which are intruded by the Coast Range plutonic complex (Fig. 3). In addition to the Coast Range intrusives, a number of other stocks and dykes which range in composition intrude the Hazelton Group. These include the Tidewater stock on the property and the other Alice Arm type intrusions in the area. The youngest rocks in the area are Pleistocene plateau basalts found just east of Alice Arm.

In the immediate vicinity of Alice Arm, the Alice arm type intrusions, including the Tidewater stock, host molybdenum mineralization. The other stocks in the area that host molybdenum mineralization are Roundy Creek, Ajax, Bell Molybdenum and Lime Creek (Kitsault). The Kitsault deposit was developed and operated unsuccessfully by B.C. Moly and later with an equal lack of success by AMAX of Canada.

Base metals and precious metals were produced from volcanogenic massive sulphides in a roof pendant of Hazelton Group in the Coast Range plutonic complex at Anyox about 20 km west of the Tidewater Property. While in operation between 1914 and 1938, Anyox produced 22.4 million tonnes grading about 1.5% Cu, 10 g/tonne Ag and 1.5 g/tonne Au.

Base and precious metals were also produced to the north at Stewart from numerous deposits. The Stewart area has experienced a recent renewal in gold exploration and development with Westmin Resources Ltd. developing its



PLUTONIC AND ULTRAMAFIC ROCKS:

Late Cretaceous and Early Tertiary

granite, quartz monzonite

Paleozoic - Early Tertiary

granodiorite, quartz diorite

SEDIMENTARY AND VOLCANIC ROCKS:

Middle Jurassic - Lower Cretaceous

Bouser - Dewdney

Lower and Middle Jurassic

Hazelton - Bonanza

Proterozoic - Paleozoic

Central Gneiss - Skagit

0 50 100
kilometres

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Figure 3
TIDEWATER PROPERTY

REGIONAL GEOLOGY

Skeena Mining Division
British Columbia
NTS: 103 P/5E

July 1988 Drafting: BJM

Silbak-Premier and Big Missouri properties and Newhawk Gold Mines Ltd. its Sulphurets project and Skyline Exploration Ltd. its Johnny Mtn. property.

HISTORY and PREVIOUS WORK

The Tidewater Property was first explored in 1916 when the 363 m level adit was driven and 383 tons of ore grading 1.63% MoS were mined from a high grade quartz vein (Allen and LeBel, 1979).

In 1931, Dalhousie Mining Co. constructed a 100 ton mill on the beach and an aerial tramway to the workings and drove the 330 m level adit (Allen and LeBel, 1979). About 2700 tons of MoS ore obtained from the highgrade quartz vein was processed.

In 1964, Canex Aerial Exploration (now Placer Development) carried out 547 m of underground diamond drilling in the 330 m level adit (Thompson, 1964). In 1965, Canex did 291 m of surface diamond drilling in 5 holes in the Tidewater stock.

The property was staked by its present owner, Richard Dunn, in 1977.

In 1979, AMAX of Canada Ltd. optioned the property and carried out linecutting, geological mapping, soil and rock geochemistry, magnetic and induced polarization geophysical surveys and 796 m of diamond drilling in 3 holes. The purpose of this work was to define the extent and grade of the MoS mineralization on the property (Allen and LeBel, 1979).

In 1980, AMAX of Canada Ltd. drilled another 784 m in 5 holes to further define the extent and grade of the MoS mineralization on the property (Allen and McCarter, 1980).

The cost of the most recent work on the property by AMAX of Canada in 1979 and 1980 is estimated at $286,000 (Boyd, 1987).

In 1980, AMAX of Canada terminated its option because of a combination of low grades, low tonnage and low MoS prices, and returned the property to Richard Dunn.

In 1981, AMAX of Canada Ltd., re-assayed selected samples of core for gold. One sample (#61007) returned 0.420 oz/t Au and 1.36 oz/t Ag but the exact location of the sample was uncertain (Seibner, 1981).

In 1987, Richmark Resources Ltd. carried out an exploration program which included geochemistry, geophysics, prospecting, blasting and trenching to follow-up gold anomalies obtained after re-assaying the pulps from the 1979 and 1980 drill core and a selected number of 1979 soil samples.

PROPERTY GEOLOGY and MINERALIZATION

The property is underlain primarily by Hazelton Group sedimentary rocks of Jurassic Age which consist of argillite, siltstone, fine grained sandstone, lesser greywacke, and tuffs (Fig. 4). The sediments contain fine grained, disseminated, syngenetic pyrite and bedding attitudes generally strike west - northwest and dip to the north. The sediments have been hornfelsed around the

Tidewater Stock:
quartz monzonite,
quartz feldspar porphyry

Hazelton Group:
argillite, siltstone, greywacke,
and hornfelsic equivalents

★ Au anomaly (oz/t), surface rock sample or vertical projection from drill data

underground drill hole, Canex 1964

surface drill hole, Canex 1965

drill hole, Amax 1979, 1980

Orequest 1987 grid

Amax 1979–1980 grid

TR-87-1 trench (1987) not to scale

BL-87-3 test pit (1987)

Quartz Vein Zone

Hornfels Zone

MoS_2 Zone

17+50N

16+25N

15+00N

13+50N

12+00N

BL (044°)

24+00N

23+50N

23+00N

22+00N

21+50N

20+50N

20+00N

21 00N

19+50N

18+50N

TR-87-2
80-6
.24

TW-88-08
S-1
.04

TR-87-1
.29
79-2,3
.10

SUCCESS

S-2

S-5
BL-87-3
.18
S-3
TW-88-09

TW-88-10
BL-87-4
.11

S-4
TW-88-11
.06
BL-87-5

80-7

80-4

79-1

MOLYBDENUM

TIDE
TIDE II

0 100 200 300 400
metres

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Figure 4
TIDEWATER PROPERTY

PROPERTY GEOLOGY

Skeena Mining Division
British Columbia
NTS: 103: P/5/E

July 1988 Drafting: BJM

Tidewater stock.

The Tidewater stock is located in the north central portion of the claim group and is quartz monzonite or granite in composition. Texturally, it varies between a quartz feldspar porphyry and a medium grained, hypidiomorphic plutonic rock. It measures 250 m by 400 m and its long axis trends approximately northeast.

The Tidewater Stock is probably Late Cretaceous or Early Tertiary in age. It is a relatively acid intrusive or plug emplaced during the later developmental stages of the Coast Range Crystalline Complex. Its emplacement along the eastern border of the complex is structurally controlled by the northeast trending fault and fracture system that opened during the intrusion of the Coast Range batholith.

The major quartz - molybdenite vein system mined in the early 1900's for molybdenum, and located at the southern contact of the Tidewater stock, also follows the same northeasterly structural trend. These quartz veins attain thicknesses of twenty metres and extended for 300 metres along strike where they terminate at the Tidewater stock contact. Molybdenite occurrs primarily as 1 - 2 mm concordant sheets within the quartz veins. Sheet density varied between 1/1 cm to 1/10 cm within the ore grade material. Several samples taken of the quartz - molybdenite veins were devoid of precious metals when assayed.

A variety of dykes ranging from basalt to felsite in composition occur on the property. They are oriented in northeasterly or northwesterly directions.

Basalt and andesite dykes usually strike NE and cross-cutting relationships indicated that they postdate the Tidewater stock.

Felsic and porphyritic granodiorite dykes, as well as, the base - precious metal quartz veins usually have northwest orientations. The age of the felsic dykes is uncertain but one cross-cutting relationship to the southwest of the claim group suggests that they post-date the mafic dykes.

The base - precious metal quartz veins sampled at test pits BL-87-3, 4 and 5 during the fall of 1987 occur within the Tidewater stock along NW to NNE trends. They post-date the stock and appear to be genetically unrelated to the major quartz - molybdenite system.

The relative ages of the various formations on the property are illustrated in Table 1.

TABLE 1

Relative Ages of Lithological Units and Veins

Acidic Dykes

Basic Dykes

Base - Precious Metal Quartz Veins

Tidewater Stock

Quartz - Molybdenite System

Hazelton Group

EXPLORATION PROCEDURES

A JKS-Boyles 300 diamond drill owned and operated by Roger's Drilling Services Inc. of Vancouver, B.C. was used to cut 2004 feet (611 m) of BQ sized core. Four holes were drilled (Figure 4) to test individual structures found to contain precious metals during the blasting and trenching program carried out last season.

The core was logged and samples of two or three feet were analyzed at the Vangeochem Laboratory in Vancouver using a fire assay preparation with an atomic absorption finish.

RESULTS AND DISCUSSION

The drill program encountered many sections of moderately sheared, altered, and mineralized rock associated with the contact between the Tidewater Stock and the surrounding Hazleton sediments. Quartz and lesser quartz-carbonate veining and breccia was found within and adjacent to these zones of brittle deformation. Sulphide content within the vein material was low with an average concentration of less than 1%. Locally, base metal rich veins were encountered that contained as much as 40% sulphides and sulphosalts over 1.5 cm (TW-88-08, 69-71 ft). The best precious metal values were derived from these base metal veins which were associated with areas of hematitic, argillic, and sericitic alteration.

Five significant precious metal assays were received from 305 split core samples that were two or three feet in length.

Sample number 53012 (TW-88-08, 69-71') carried 25.79 oz/t Ag and .009 oz/t

Au. This was derived from a 2-15 mm quartz vein (with minor carbonate (2%)). The vein contained 40% sulphides and sulphosalts. Polymetallic mineralization included molybdenite, pyrite, pyrrhotite, galena, sphalerite, tertahedrite, and ruby silver which occurred as selvage and concentrations within the vein. Minor alteration associated witht he vein was argillic and sericitic.

Sample number 53015 (TW-88-08, 78-80') carried 9.92 oz/t Ag and .028 zo/t Au. This was derived from quartz veins and breccias, up to 3 cm in width, and containing as much as 15% sulphides and sulphosalts. Mineralization and alteration was the same as that found in samples 53012.

Sample number 53016 (TW-88-08, 80-82') carried 7.86 oz/t Ag and .018 oz/t Au. This was derived from four quartz veinlets varying in width from 1 mm to 1 cm. Sulphide mineralization, which had local concentrations of 10% over 1 cm, included molybdenite, pyrite, and pyrrhotite with trace amounts of chalcopyrite, galena, and sphalerite. Hematitic, argillic and sericitic alteration was associted with the veinlets.

The average grade of the above three samples (TW-88-08, 69-82') was 7.16 oz/t Ag and .02 oz/t Au over 13 feet.

Sample number 53153 (TW-88-09, 148-150') carried 20.46 oz/t Ag and .013 oz/t Au. This was derived from brecciated quartz vein, 4 cm in width, that had been sheared. Sulphide and sulphosalt content was 4% within the breccia and included pyrite, pyrrhotite, sphalerite, tetrahedrite, and ruby silver. Another 0.8 cm quartz vein within the sample contained 2% tetrahedrite as selvage and

disseminated pyrite and sericite.

Sample number 53188 (TW-88-10, 57-60') carried 8.38 oz/t Ag and .018 oz/t Au. This was derived from a 2' quartz breccia containing 70% quartz, 2% sulphides and sulphosalts, and patchy to pervasive argillic and sericitic alteration.

Complete hole summaries can be located in Appendix I, assay values in Appendix II, and drill logs in Appendix III.

Test pit BL-87-5 tested soil sample location 18+50N, 0+62.5E which was anomalous for Ag and Pb. The pit exposes a 1 - 5 cm thick quartz vein which contains up to 0.06 oz/t Au (sample 12900) and 16 oz/t Ag (sample 12891). The vein is confined by a minor 4 m long shear trending 124° and dipping 65° S. The Zone which is silicified and pyritized (10%) carried up to 2% galena in euhedral crystals. Alteration mineralogy includes clays, hematite, jarosite, pyrolusite and minor sericite.

CONCLUSIONS and RECOMMENDATIONS

The Tidewater property hosts widespread MoS mineralization in banded quartz - molydenite veins, in quartz vein stockworks and as disseminations, and fracture coatings within and around the Tidewater stock. The veins include the sheeted quartz - molybdenite system in Tidewater Creek that was the object of previous underground exploration on the property.

Previous drilling on the property has indicated a molybdenum deposit of

approximately 10 million tons grading around 0.1% MoS .

Silver and gold mineralization occurs on the property in quartz veins and sheare within the Tidewater stock and Hazelton sediments adjacent to the stock. These veins trend north to northwesterly and appear to be unrelated to the sheeted quartz - molybdenite veins which are a different age and are devoid of precious metals.

The best precious metal results (25.79 oz/t Ag and .009 oz/t Au) was obtained in DDH TW-88-08 (69-71'). An average grade over 13' including the above sample, was 7.16 oz/t Ag and .02 oz/t Au. Other positive results of 20.46 oz/t Ag and .013 oz/t Au were derived from DDH TW-88-09 (148-150').

A detailed soil geochemical survey over the Tidewater stock and adjacent Hazelton sediments, along northeast lines, is recommended to identify anomalous areas associated with precious metal veins. Also, a limited drill program using a "gopher" style portable drill (A sized core) that will test geochemical anomalies derived from the detailed soil grid is also recommended.

COST ESTIMATE

Mobilization - Demobilization	$ 5,000
Diamond Drilling	20,000
Wages	20,000
Camp Costs	8,000
Analyses	10,000
Helicopter - Support	2,500
Truck Rental	1,500
Supervisor and Report	6,000
Contingencies @ 10%	8,000
TOTAL	$ 81,000

COST STATEMENT

TIDEWATER PROJECT

RICHMARK RESOURCES LTD
Phase II Drilling
June- August 1988

Field Personnel	No. of Days	Rate per day	Amount	
Geologist	42	225.00	9,450	
Field Technician	10	185.00	1,850	
Cook	21	190.00	3,990	
Consultant				
Consulting Geologist	3.5	400.00	1,400	
Total Fees & Wages				16,690
Food and Accomodation				7,394
Mobilization/Demobilization				11,500
Aircraft support- Helicopter				24,025
Equipment & Supplies				5,580
Laboratory Analysis	310 core samples		Au & Ag	5,668
Drilling contractor	610 meters BQ			52,476
Report Preparation				800
Management Fee				5,738
TOTAL				**$129,871**

The core is stored on the property

CERTIFICATE of QUALIFICATIONS

I, Ed McCrossan, of 3328 W. 2nd Avenue, Vancouver, British Columbia hereby certify:

1. I am a graduate of the University of British Columbia (1984) and hold a BSc. degree in geology.
2. I am presently employed as a consulting geologist with OreQuest Consultants Ltd. of 404-595 Howe Street, Vancouver, British Columbia.
3. I have been employed in my profession by various mining companies since graduation and have worked on projects in Canada, Hungary, Thailand, China, and Australia.
4. The information contained in this report was obtained by direct supervision of the work done on the property by OreQuest Consultants Ltd. in 1987 and a review of all data listed in the Bibliography.
5. Neither OreQuest Consultants Ltd. nor myself have or expect to receive direct or indirect interest in the property nor in the securities of Richmark Resources Ltd. or any of its subsidiaries.
6. I consent to and authorize the use of the attached report and my name in the Company's Prospectus, Statement of Material Facts or other public document.

Ed McCrossan
Consulting Geologist

DATED at Vancouver, British Columbia, this 26th day of August, 1988.

CERTIFICATE of QUALIFICATIONS

I, J. L. LeBel, of 2684 Violet Street, North Vancouver, British Columbia hereby certify:

1. I am a graduate of the Queens University (1971) and the University of Manitoba (1973) and hold a BSc. degree in geological engineering and a MSc. degree in geophysics.
2. I am a Professional Engineer registered with the Association of Professional Engineers of British Columbia, Vancouver, British Columbia.
3. I have been employed in mining exploration with various companies since 1972.
4. The information contained in this report comes from the references cited and my personal experience in the area, having been involved in previous exploration on the property in 1979.
5. I own no direct, indirect and do not expect to receive any contingent interests in the subject property or shares or securities of Richmark Resources Ltd.
6. I consent to and authorize the use of the attached report and my name in the Company's Prospectus, Statement of Material Facts or other public document.

PROFESSIONAL ENGINEER PROVINCE OF BRITISH COLUMBIA

J.L. LeBel, P.Eng.

DATED at Vancouver, British Columbia, this 26th day of August,1988.

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APPENDIX 1

DIAMOND DRILL HOLE SUMMARIES

DDH Sumamry: TW-88-08 (Figure 5)

The hole was collared on May 29, 1988 at an elevation of 589 m. It was orientated at 130° with a dip angle of 45°. The first depth of 255.5 m was reached on June 4, 1988.

Hazleton Group sediments and the Tidewater Stock granodiorite-quartz monzonite was penetrated at this location. Numerous dykes ranging in composition from a quartz-feldspar prophyry to a basalt porphyry were also intersected.

Deformation, manifested by multiple shears and faults, and dyke emplacement was most intense at the sediment-stock contact.

Molybdenite mineralization, with pyrite and pyrrhotite, was most common in numerous, small (1-10 m) quartz veins. Base and precious metal mineralization was less frequent with trace amounts of galena, sphalerite, tetrahedrite, and ruby silver occuring in some quartz veins.

Argillic, chloritic, and sericitic alteration was associated with the quartz veins.

DDH Summary: TW-88-09 (Figure 6)

The hole was started on June 5, 1988 and was drilled vertically to test a silver rich, quartz-tetrahedrite shear which was revealed by blasting during the fall of 1987. A final depth of 122 m was reached on June 7, 1988.

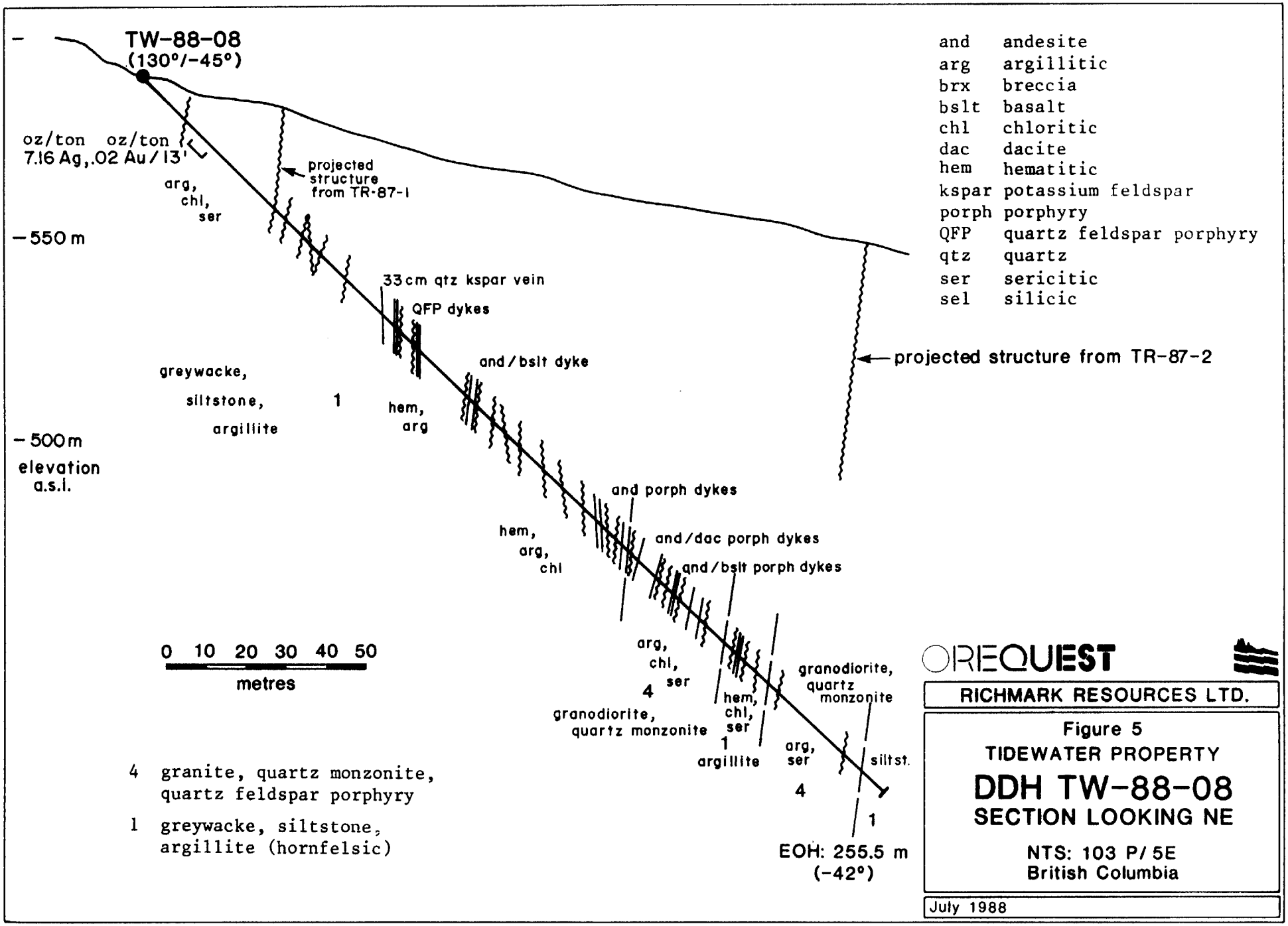
TW-88-08
(130°/-45°)
oz/ton oz/ton
7.16 Ag,.02 Au/13'
arg, chl, ser
projected structure from TR-87-1
-550 m
33 cm qtz kspar vein
QFP dykes
and/bslt dyke
greywacke, siltstone, argillite
1
hem, arg
-500 m elevation a.s.l.
projected structure from TR-87-2
and porph dykes
hem, arg, chl
and/dac porph dykes
qnd/bslt porph dykes
arg, chl, ser
4
granodiorite, quartz monzonite
hem, chl, ser
1
argillite
granodiorite, quartz monzonite
arg, ser
4
siltst.
1
EOH: 255.5 m
(-42°)
0 10 20 30 40 50
metres
4 granite, quartz monzonite, quartz feldspar porphyry
1 greywacke, siltstone, argillite (hornfelsic)
and andesite
arg argillitic
brx breccia
bslt basalt
chl chloritic
dac dacite
hem hematitic
kspar potassium feldspar
porph porphyry
QFP quartz feldspar porphyry
qtz quartz
ser sericitic
sel silicic
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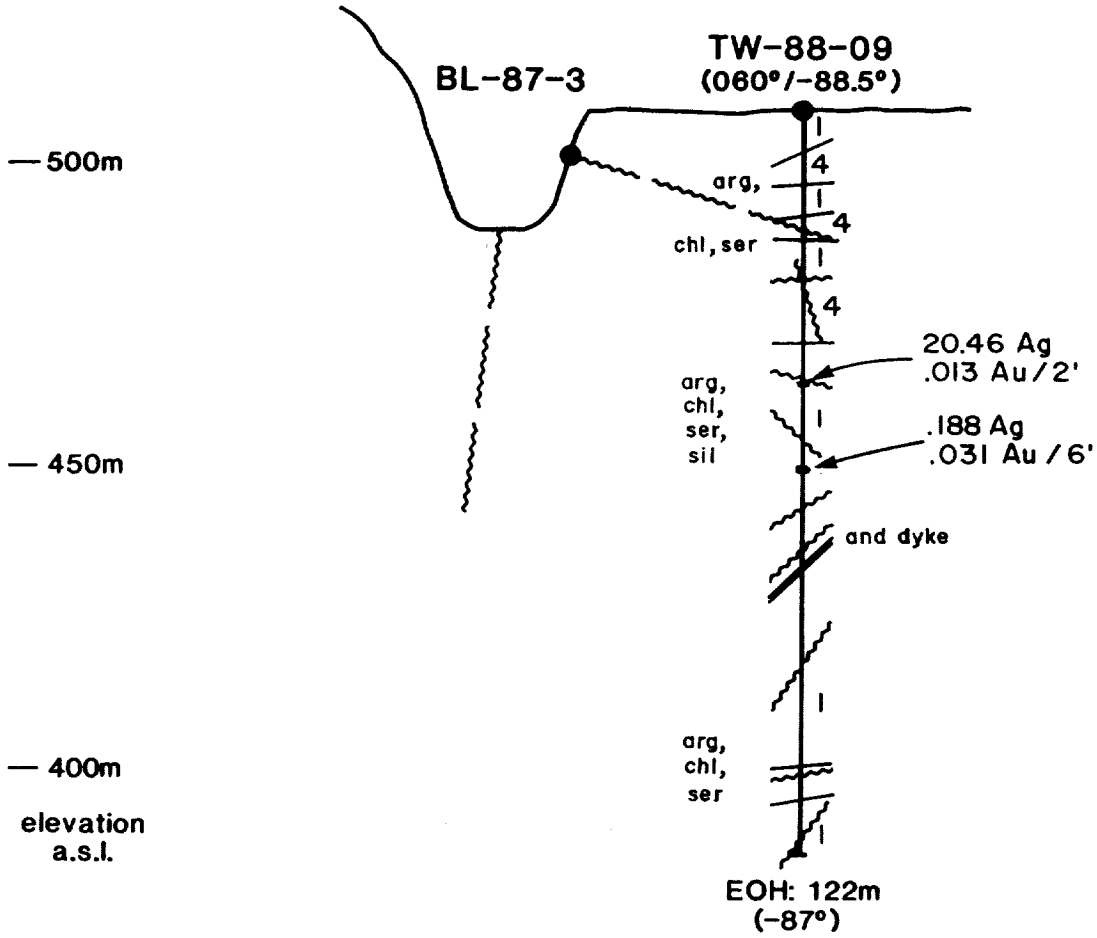
Figure 5
TIDEWATER PROPERTY
DDH TW-88-08
SECTION LOOKING NE
NTS: 103 P/5E
British Columbia
July 1988



0 10 20 30 40 50

metres

4 granite, quartz monzonite, quartz feldspar porphyry

2 tuff, crystal tuff, lapilli tuff

1 greywacke, siltstone, argillite (hornfelsic)

OREQUEST

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Figure 6

TIDEWATER PROPERTY

DDH TW-88-09

SECTION LOOKING NE

NTS: 103 P/5E
British Columbia

July 1988

Hazelton Group sediments and tuffs were intersected by the drill. Lesser amounts of Tidewater stock granodiorite, quartz monzonite, and quartz feldspar porphyry were also encountered.

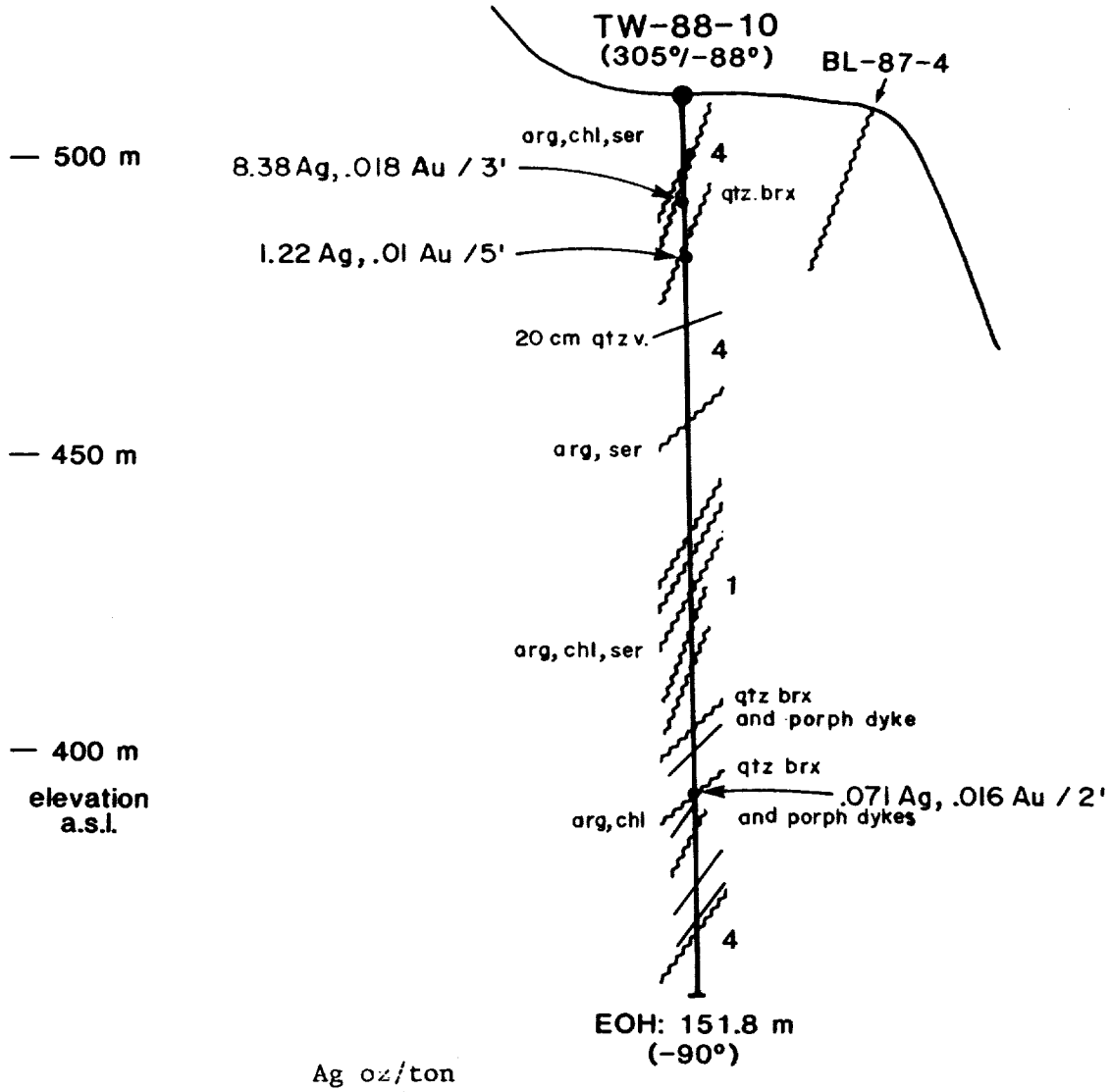
The target vein was hit at 45.4 m. It was 4 cm wide, sheared and contained 4% sulphides (molybdenite, pyrite, pyrrhotite, sphalerite, tetrahedrite, ruby silver).

Alteration associated with quartz veins and deformation was predominantly argillic, chloritic, and/or sericitic. Lesser amounts of silicic alteration was also present.

DDH Summary: TW-88-10 (Figure 7)

The hole was collared on June 8, 1988 at an elevation of 512 m. It tested the downdip strength of a silicified and mineralized shear that was blasted at location BL-87-4 during the fall of 1987. Final depth of the hole was 151.8 m.

The Tidewater stock quartz/monzonite and quartz feldspar porphyry were the prominant lithologies penetrated at this location. Occasional fault slivers or pendants of Hazelton sediments were also encountered. Several andesite porphyry dykes were intersected towards the bottom of the hole. Deformation was moderate to intense and continuous with structures observed on the surface. Minor amounts of sulphides (molybdenite, pyrite, pyrrhotite, galena, sphalerite, tetrahedrite) were associated with quartz veins and alteration was predominantly argillic and chloritic with lesser sericite development.



Ag oz/ton
Au oz/ton

4 granite, quartz monzonite, quartz feldspar porphyry

1 greywacke, siltstone, argillite (hornfelsic)

0 10 20 30 40 50
metres

OREQUEST

RICHMARK RESOURCES LTD.

Figure 7
TIDEWATER PROPERTY

DDH TW-88-10
SECTION LOOKING NE

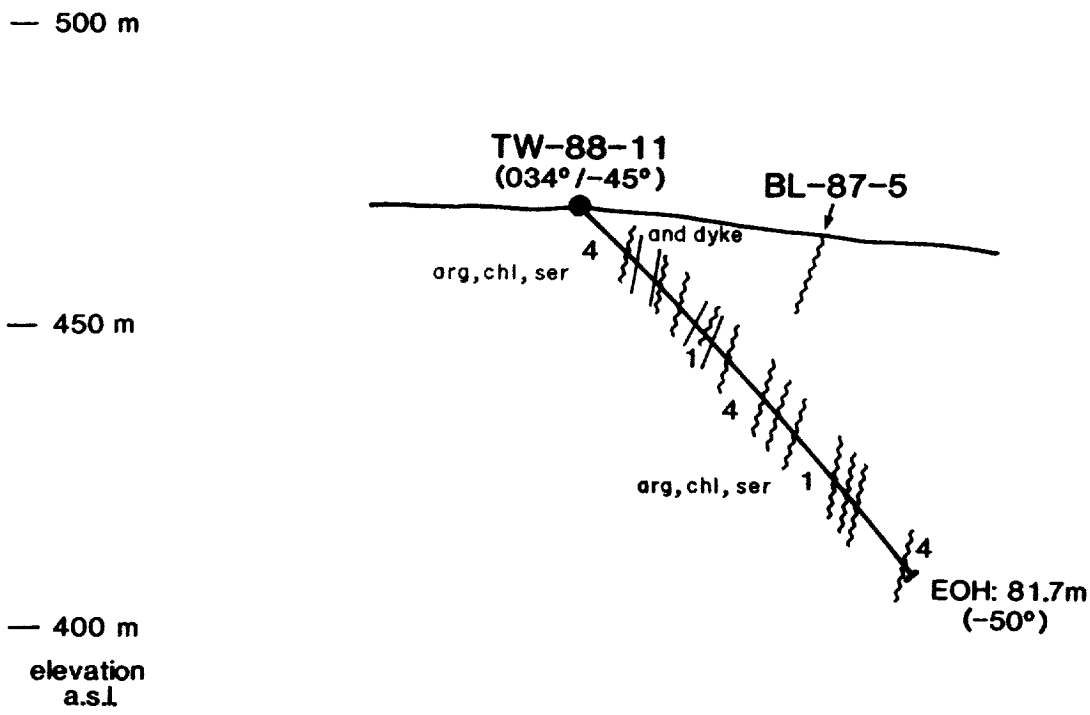
NTS: 103: P/5E
British Columbia

July 1988

DDH Summary: TW -88-11 (Figure 8)

TW-88-11 was collared on June 12, 1988 with an orientation of 034° and a dip of 45°. A final depth of 81.7 m was reached on June 14, 1988.

Hazelton sediments and Tideqater stock monzonites were intersected in this hole. Deformation was moderate with some quartz stockwork and quartz breccia formation. Mineralization associated with the quartz included molybdenite, pyrite and pyrrhotite with lesser galena and sphalerite. Argillic, chloritic and sericitic alteration was also associated with the quartz occurrences.



4 granite, quartz monzonite, quartz feldspar porphyry

1 greywacke, siltstone, argillite (hornfelsic)

0 10 20 30 40 50
metres

OREQUEST

RICHMARK RESOURCES LTD.

Figure 8
TIDEWATER PROPERTY

DDH TW-88-11
SECTION LOOKING NW

NTS: 103 P/5E
British Columbia

July 1988

APPENDIX 2

ANALYTICAL RESULTS

VANGEOCHEM LAB LIMITED

MAIN OFFICE AND LABORATORY
1988 Triumph Street
Vancouver, B.C. V5L 1K5
(604)251-5656 FAX:254-5717

BRANCH OFFICE
1630 PANDORA ST.
VANCOUVER, B.C. V5L 1L6
(604) 251-5656

ASSAY ANALYTICAL REPORT

CLIENT: **OREQUEST CONSULTANTS LTD.**
ADDRESS: 404-595 Howe St.
: Vancouver, B.C.
: V6C 2T5

DATE: June 24 1988

REPORT#: 880577 AA
JOB#: 880577

PROJECT#: RICHMARK / TIDEWATER
SAMPLES ARRIVED: June 20 1988
REPORT COMPLETED: June 24 1988
ANALYSED FOR: Ag

INVOICE#: 880577 NA
TOTAL SAMPLES: 5
REJECTS/PULPS: 90 DAYS/1 YR
SAMPLE TYPE: Rock

SAMPLES FROM: Vancouver office.
COPY SENT TO: All copies sent to Vancouver office.

PREPARED FOR: Mr. Ed McCrossan

ANALYSED BY: David Chiu

SIGNED: _____

Registered Provincial Assayer

GENERAL REMARK: Fire assay for Ag > 100 ppm.

VANGEOCHEM LAB LIMITED

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BRANCH OFFICE
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VANCOUVER, B.C. V5L 1L6
(604) 251-5656

SAMPLE #	Ag oz/st
53012	25.79
53015	9.92
53016	7.86
53153	20.46
53188	8.38

DETECTION LIMIT .01

1 Troy oz/short ton = 34.28 ppm 1 ppm = 0.0001% ppm = parts per million < = less than

signed: _____

VGC

VANGEOCHEM LAB LIMITED

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(604)251-5656 FAX:254-5717

BRANCH OFFICE
1630 PANDORA ST.
VANCOUVER, B.C. V5L 1L6
(604) 251-5656

GEOCHEMICAL ANALYTICAL REPORT

CLIENT: **OREQUEST CONSULTANTS LTD.**
ADDRESS: 404-595 Howe St.
: Vancouver, B.C.
: V6C 2T5

DATE: June 24 1988
REPORT#: 880577 GA
JOB#: 880577

PROJECT#: RICHMARK / TIDEWATER
SAMPLES ARRIVED: June 20 1988
REPORT COMPLETED: June 24 1988
ANALYSED FOR: Ag Au (FA/AAS)

INVOICE#: 880577 NA
TOTAL SAMPLES: 305
SAMPLE TYPE: 305 Rock
REJECTS: SAVED

SAMPLES FROM: Vancouver office.
COPY SENT TO: All copies sent to Vancouver office.

PREPARED FOR: Mr. Ed McCrossan

ANALYSED BY: VGC Staff

SIGNED: _____

GENERAL REMARK: Fire assay for Ag > 100 ppm.

VANGEOCHEM LAB LIMITED

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VANCOUVER, B.C. V5L 1L6
(604) 251-5656

REPORT NUMBER: 880577 GA JOB NUMBER: 880577 GREENEST CONSULTANTS LTD.

SAMPLE #	Ag ppm	Au ppb
53001	.2	nd
53002	.2	5
53003	.4	5
53004	.3	nd
53005	.3	nd
53006	.2	5
53007	.2	nd
53008	.2	nd
53009	1.1	nd
53010	.7	nd
53011	2.1	25
53012	>100.0	280
53013	7.8	100
53014	89.0	2290
53015	>100.0	890
53016	>100.0	570
53017	2.3	nd
53018	1.4	5
53019	.4	25
53020	.3	nd
53021	.5	nd
53022 A	.6	nd
53022 B	.4	5
53023	.9	nd
53024	.3	nd
53025	.4	nd
53026 A	.3	nd
53026 B	nd	nd
53027	2.1	20
53028	.1	nd
53029	.2	nd
53030	.6	15
53031	1.6	nd
53032	.3	10
53033	.2	nd
53034	.3	nd
53035	.1	nd
53036 A	.1	nd
53036 B	.1	nd
DETECTION LIMIT	0.1	5

nd = none detected -- = not analysed is = insufficient sample

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SAMPLE #	Ag ppm	Au ppb
53037	.9	5
53038	.5	nd
53039	.7	nd
53040	.3	nd
53041	.1	nd
53042	.1	nd
53043	.3	nd
53044	.6	nd
53045	.5	nd
53046	.3	nd
53047	.5	nd
53048	.5	nd
53049	.4	nd
53050	.3	nd
53051	.3	nd
53052	.2	10
53053	.4	nd
53054	.2	nd
53055	.1	nd
53056	.3	nd
53057	1.9	10
53058	.5	5
53059	.2	90
53060	.2	nd
53061	.5	5
53062	.3	55
53063	.7	10
53064	.3	10
53065	1.4	20
53066	.5	5
53067 A	.8	nd
53067 B	.4	5
53068 A	.8	nd
53068 B	.3	5
53069	.3	nd
53070	.4	nd
53071	.3	nd
53072	.2	nd
53073	.3	nd
DETECTION LIMIT	0.1	5

nd = none detected -- = not analysed is = insufficient sample

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SAMPLE #	Ag ppm	Au ppb
53074	.2	20
53075	.1	nd
53076	.2	5
53077	.2	nd
53078	.1	10
53079	.2	nd
53080	.3	nd
53081	.1	nd
53082	.6	nd
53083	.2	10
53084	.1	nd
53085	.3	10
53086	.3	nd
53087	.1	nd
53088	.2	nd
53089	.2	5
53090	.6	10
53091	.3	nd
53092	.6	nd
53093	.2	60
53094	.6	nd
53095	.3	nd
53096	.2	nd
53097	.3	15
53098	3.4	nd
53099	3.0	25
53100	.6	nd
53101	.6	5
53102	1.3	nd
53103	.8	nd
53104	.2	5
53105	.7	10
53106	1.5	5
53107	.3	30
53108	.7	nd
53109	.4	5
53110	.8	15
53111	.9	20
53112	1.4	10
DETECTION LIMIT	0.1	5

nd = none detected -- = not analysed is = insufficient sample

VGC

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SAMPLE #	Ag ppm	Au ppb
53113	1.9	nd
53114	.6	5
53115	.5	nd
53116	.6	nd
53117	1.4	50
53118	1.1	nd
53119	.3	nd
53120	.3	nd
53121	.2	nd
53122	.2	nd
53123	.3	nd
53124	.1	nd
53125	.1	nd
53126	18.4	15
53127	.4	nd
53128	2.0	10
53129	.3	nd
53130	.3	nd
53131	.3	nd
53132	.6	nd
53133	.3	nd
53134	2.4	nd
53135	.4	nd
53136	6.9	60
53137	.2	nd
53138	.5	nd
53139	.4	nd
53140	.8	5
53141	.4	5
53142	.3	20
53143	.7	20
53144	.5	30
53145	.4	80
53146	.4	nd
53147	.6	20
53148 A	1.3	5
53148 B	1.2	140
53149	.2	20
53150	.9	180
DETECTION LIMIT	0.1	5

nd = none detected -- = not analysed is = insufficient sample

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SAMPLE #	Ag ppm	Au ppb
53151	3.3	45
53152	.2	nd
53153	>100.0	425
53154	1.6	30
53155	3.1	10
53156	5.4	660
53157	6.7	330
53158	.5	10
53159	.2	nd
53160	.4	150
53161	3.5	85
53162	.3	5
53163	.1	nd
53164	.3	nd
53165	.3	25
53166	.6	10
53167	.1	10
53168	1.5	10
53169	1.4	nd
53170	1.1	nd
53171	4.2	nd
53172	1.6	nd
53173	3.3	nd
53174	3.5	nd
53175	1.0	nd
53176	2.3	5
53177	.4	nd
53178	2.5	nd
53179	1.5	nd
53180	2.4	20
53181	5.5	75
53182	14.5	40
53183	12.8	15
53184	.9	50
53185	1.6	10
53186	2.7	40
53187	10.9	75
53188	>100.0	590
53189	79.5	170
DETECTION LIMIT	0.1	5

nd = none detected -- = not analysed is = insufficient sample

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SAMPLE #	Ag ppm	Au ppb
53190	10.2	30
53191	1.7	20
53193	2.7	15
53194	6.5	85
53195	52.4	350
53196	26.3	360
53197	6.8	75
53198	12.4	140
53199	15.8	160
53200	18.6	25
53201	9.0	15
53202	1.2	nd
53203	1.3	20
53204	2.9	nd
53205	4.8	30
53206	2.3	130
53207	4.9	5
53208	.9	nd
53209	1.1	nd
53210	.4	nd
53211	.4	nd
53212	.9	20
53213 A	12.1	335
53213 B	23.4	45
53214	2.7	190
53213	5.0	30
53214	2.7	75
53215	.3	10
53216	.3	nd
53217	1.7	20
53218	.3	nd
53219	1.5	35
53220	.8	5
53221	1.0	nd
53222	2.0	nd
53223	1.0	nd
53224	4.4	65
53225	.6	nd
53226	1.0	nd
DETECTION LIMIT	0.1	5

nd = none detected -- = not analysed is = insufficient sample

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SAMPLE #	Ag ppm	Au ppb
53227	1.0	nd
53228	4.1	25
53229	1.8	nd
53230	4.7	10
53231	4.9	10
53232	.4	nd
53233	1.1	5
53234	1.5	20
53235	1.3	30
53236	1.1	30
53237	2.3	530
53238	.9	10
53239	1.3	nd
53240	1.2	130
53241	10.3	30
53242	28.3	245
53243	1.4	nd
53244	.6	nd
53245	3.7	nd
53246	.8	nd
53247	.8	nd
53248	.8	nd
53249	.8	nd
53250	.6	nd
53251	1.1	15
53253	2.0	25
53254	1.2	5
53255	1.3	nd
53256	4.9	nd
53257	1.0	nd
53258	.6	nd
53259	16.9	nd
53260	.7	nd
53261	.6	nd
53262	.5	nd
53263	.5	nd
53264	.5	5
53265	1.2	30
53266	1.0	nd
DETECTION LIMIT	0.1	5

nd = none detected -- = not analysed is = insufficient sample

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VANCOUVER, B.C. V5L 1L6
(604) 251-5656

SAMPLE #	Ag ppm	Au ppb
53267	1.2	35
53268	1.1	20
53269	1.0	20
53270	.5	5
53271	.5	5
53272	.2	nd
53273	.4	5
53274	.4	20
53275	.4	10
53276	.5	nd
53277	.1	20
53278	.1	15
53279	.1	nd
53280	.9	60
53281	.2	10
53282	.2	nd
53283	1.4	15
53284	.5	10
53285	.4	nd
53286	.2	nd
53287	.1	5
53288	.6	nd
53289	.4	5
53290	.2	10
53291	.3	20
53292	.1	nd
53293	1.1	nd
53294	.3	nd
53295	.6	5
53296	.4	nd
53297	4.0	60
53298	1.5	30

DETECTION LIMIT 0.1 5

nd = none detected -- = not analysed is = insufficient sample

APPENDIX 3

DRILL LOGS

OREQUEST CONSULTANTS LTD. — DIAMOND DRILL LOGS — Hole No. TW-88-08

Exploration Co., Owner or Optionee: RICHMARK RESOURCES LTD.	Map Ref. No.: NTS 103P/5E	Claim Number: TIDE	Bearing from True North: 130	Dip of hole at: Collar: -45	Logged By: Ed McCrossan	Other Information: JKS 300
Property Name: TIDEWATER	Location (Twp., Lot, Con. or Lat. & Long.): 55 , 8'N; 129 , 4'W		Collar Elevation: 589	a. / a.		80
Drilling Company: ROGERS DRILLING	Date Hole Started: MAY 29, 1988	Date Completed: JUNE 4, 1988	Hole Depth: 255.5	255.5 m. / -42	Date Logged: June 4, 1988	

Meterage From	Meterage To	ROCK TYPE	ALT	FOL TO CORE AXIS	DESCRIPTION (Colour, grain size, texture, minerals, alteration, etc.)	% Sulphide	Sample No.	Sample (m.) From	Sample (m.) To	Sample Length (m.)	ASSAYS Ag ppm	Au ppb	Ag opt	Au opt
0	6				CASING/OVERBURDEN									
6	76.5				- GREYWACKE; medium grey, red, brown; with pink/purple cast due to hornfelsing fine to medium grained w/ qtz clasts to 3mm (subround); massive; pink/purple cast due to hydrothermal biotite? assoc. w/ contact metamorphism; other alteration assoc. w/ hairline fractures and qtz veining.									
10	12		hem mn	33	- (as above) 1.2 cm qtz vein; milky white w/ MoS2 as selvage (5%) and slip surface spears along vein contact; tr py as euhedral concentrations to 3mm; hem, Mn; tr sericite alt'n assoc. w/ hairline fractures within vein & along vein contacts	tr	53001	10	12	2	0.2	nd		
24	27		chl	80 30	- (as above) 24.5, two 2cm qtz-chlorite - veins (intersecting); medial MoS2 (3mm); m carb as hairline fracture fill (appears to be post-qtz)									
				25	- 25.6 0.8 cm qtz vein, milky white; tr 1% MoS2 as paired selvage indicating multistage vein growth; 3 other qtz-mo veinlets within sample.	tr	53002	24	27	3	0.2	5		
				45	- 33.5, 1cm qtz vein; milky white w/ 2% MoS2 (selvage and disseminated) and tr py (diss.)									
35.5	36.5				- (as above) blocky core with carbonate, clays & m. sericite assoc. w/ fracture surfaces; 5-10 cm pieces									
				50	- 37.0, 1cm qtz vein; milky white; barren									
37.5	39.5		arg	32	- 38.5, 1.5cm qtz vein; milky, MoS2 (1%) as f. gr. selvage & disseminations throughout vein; argillaceous alteration within vein; tr sericite at vein contact.	tr	53003	37.5	39.5	2	0.4	5		
39.9	40.3				- core rubble; & MoS2; tr sericite; no significant shear textures									
				45	- 43, spotty/patchy silicia/sericitic/chloritic alteration begins (20%) concordant w/ bedding laminae or foliation?									
43.5	45.5			45	- 43.7, 1cm qtz vein; tr mo, sericite as selvage									
			chl	30 70	- 45.0, minor network of qtz-mo & qtz-chlorite veinlets; 1-5mm 30-70 wrt core axis	tr	53004	43.5	9	2	0.3	nd		

OREQUEST CONSULTANTS LTD. DIAMOND DRILL LOGS Hole No. TV-88-08

46	48	sil pot ser arg chl	20 60	- 46, silicic/chloritic/sericitic alteration increases to 70%-pervasive; spotty to patchy argillic/potassic? alteraton (cream-pink, 5-20%) beginsi a carb alteration; minor qtz veinlets, slip surfaces w/ tr mod py, po (20 -60 wrt core axis)	tr	53005	46	48	2	0.3	nd			
48	50	chl arg carb ser	40 40	- as above with less intense alteration - 48.3, 5-8mm qtz veinlet with tr mo, pyi grey-white - minor veinlets throughout localize alteration		53006	48	50	2	0.2	5			
50	52	chl ser carb		- rubble in core box; fragments 1-10cm; approx. 2% qtz (milky white); chlorite, minor sericite alteration; carbonate hairline fractures		53007	50	52	2	0.2	nd			
52	55	chl arg ser carb	40 45	- 52.5, 1cm qtz vein, milky white, tr mo - 53-54.5 pervasive chloritic/sericitic alteration with lesser (pink) potassic?/carbonate alteration (10%, 1-3mm concentrations) - minor qtz veinlets (1-3mm)		53008	52	55	3	0.2	nd			
57.7	59.7	chl arg		- rubble in core box with several mo coated slip surfaces or slickensides (represents minor shear approx. 1-2cm wide at low angle to core axis)										
			15	- minor shear healed with qtz containing mo, py, po (locally to 2% over 1cm)	tr	53009	57.7	59.7	2	1.1	nd			
		chl arg ser	30	- 61, 2 cm alteration band with minor network hairline fractures (also altered); chloritic, argillic, sericitic alt'n w/ tr py assoc. w/ h.l. fractures										
64.5	66.5	chl arg ser		- rubble in core box (hanging wall of breccia in next sample) 1-10 cm angular pieces; minor slip surfaces, fractures (brittle) w/ chloritic, argillic, mo, and sericitic alteration material										
			27	- milky white qtz vein material (5%) w/ mo & tr py as selvage - sericite pervasive giving olive green coloration to rock	tr	53010	64.5	66.5	2	0.7	nd			
66.5	68.5	chl arg ser sil	30	- 66.5, 10 cm qtz vein/breccia healed with black, soft argillaceous material and white carbonate; alteration as above, plus pervasive silicification, locally tr 1% mo, py assoc w/ argillaceous material										
			20	- 68.0, 10 cm carbonate/mo/graphite breccia; tr py, 5% mo by volume; breccia represents minor to moderate fault/shear	tr	53011	66.5	68.5	2	2.1	25			
67	71	arg ser	40	- 70, 2-15 mm qtz vien with minor carbonate (2%); later than calcite hairline fracture fillings, hence later than qtz-mo veins (as previously postulated). - vein 40% sulphide by volume; euhedral galena 30%, tetrahedrite (w/ trace ruby silver (pyrargerite, argentite?)) 5%, py 3%, sphalerite 2%, as vein selvage and concentrations within vein; alteration assoc w/ vein minor (argillic, sericitic; also patch (1cm) of hematite/ankerite? (rust red/brown).	0.05	53012	69	71	2	>100	280	25.79	0.009	
74	76	ser	30	- 75, 2 cm qtz vein, milky white; mo, py, po as selvage/disseminations, tr-1% in vein; low angle slip surfaces w/ chlorite & py (2%, f.g. disseminations) create core rubble	tr	53013	74	76	2	7.8	100	0.236	0.003	
76	78	arg	25	- 77.3, 15 cm qtz vein (2% carb) w/ 3% sulphide adjacent &										

		ser py		subparallel to vein contacts; py, po as concentrations to 1 cm; tr tetrahedrite as hairline frac. filling, tr gal, tr mo; adjacent wallrock argillized, sericitized & pyritized (1%); py assoc w/ h.l.f. throughout.	0.01	53014	76	78	2	89	2290	2.759	0.071
78	80	arg ser hem arg ser hem arg ser	27 20 37 30	- 78.3, 1 cm qtz vein/breccia; 15% sulphide by volume predominantly py, po (12%), less gal, sphal, tetrahedrite, tr ruby silver; in shear w/ other mineralized, subparallel veinlets. - 78.7 as at 78.3' - 79.3, 3 cm qtz healed breccia; angular fragments to 2 cm py, mo (2%) surrounding frag's, as wall rock selvage, w/ h.l.f.'s & disseminated throughout fragments & matrix; tr sphal, gal/tetrahedrite; later calcite veinlets (discordant) - 79.6, opposite orientation than the above veins; 1 cm qtz vein, milky white, sulphides 3% assoc w/ vein as very fine grained disseminations within wallrock and vein parallel to vein walls - (py, po, tr mo), w carbonate (tr) in vein. - this sample well veined of mineralized but not a stockwork texture									
				- blk, aphanitic, massive, andalusite alt's?	0.01	53015	78	80	2	>100	890	9.92	0.028
76.5	93.5			- argillite less altered country rock is spotted (white, 0.5 mm, 20%) argillite									
80	82	arg ser hem ank	20 30	- 4 qtz veinlets 1 mm - 1 cm; 20-30 wrt core axis; in stockwork formation w/ local argillization, sericitization; py, pq, tr chalcopyrite, tr galena, sphalerite, hematite - ankerite, mo; locally 10%/1cm; 1% overall	0.01	53016	80	82	2	>100	570	7.86	0.18
			45	- minor fault gauge/breccia at argillite, greywacke contact (1 cm) w/ minor clay formation, pyritization, qtz.									
84.7	91.5			- grywke; light purple/pink/brown due to hornfelsing; fine to medium grained massive, (as above)									
			20	- 86.5, 1 cm qtz vein w/ tr mo; milky white									
			45	- 90, hairline slip surface with smeared mo									
		arg ser		- 91.5, minor breccia (1 cm) with local argillic, sericitic alteration									
91.5	93.5			- argillite (as above) - occassional qtz veinlets (mm's) w/ associated sil, ser alteration for 5 mm on either side of veinlet									
93.5			5	- contact/facies harge argillite/greywacke									
93.5	94.5			- greywacke (as above)									
94.5	97			- argillite (as above) - rubble in core box; possible w frac/flt contact?									
97	332.8			- greywacke (as above), reddish - pink to brown w/ tr diss. py-po									
97	99	ser		- rubble in core box (1-10cm, angular), sericitized; w qtz									

				contenti a calcite cs fracture fillingi section is highly fractured rock vs. fault/shear								
		chl hem	30	- 104 - 1 cm qtz veini milky white - occasionaql qtz stringers w/ tr -1% mo.								
108.5	110.5	hem chl ser	30	- 109.5 - 2 cm qtz veini tr mo; tr py assoc. w/hairline fracs and disseminated in quartzi sample includes 4 qtz stringers w/tr - 19 sulphide	tr	53017	108.5	110.5	2	2.3	nd	
113	116		35	- 114; 1 cm qtz vi white								
			30	- 114.7; 6 mm qtz Vi 3% mo								
		chl	45	- 115.5; 7 cm qtz V/a brxi tr py	tr	53018	113	116	3	1.4	5	
			25	- 122; 1 cm qtz - mo V								
123	126			- tuffaceous wacke;i lt green;grey;olive;aphanitic								
			20	- 131.5 - 1 cm qtz Vi tr mo								
			30	- 132.5 - 1 cm qtz vi w/ concordant & discordant; associated calcite stringers								
			30	- 135 - minor flt (2 cm) with clay and smeared mo and qtz								
135.5	137.5	chl ser	10 45 28	- 136 - 1 mm - 1 cm qtz v networki tr py; mpi truncated by later graphitic slip surfacei remainder of sample contains many qtz stringers (to 8 mm; 1/cm) and 1% diss. py (f. grained)	tr	53019	135.5	137.5	2	0.4	25	
				- greywacke (as above)								
			45	- 144 - 1 cm flt gouge /a brx w/clay;chl; mo/graphite on slip surfaces; 1% py - sericitic alteration for 2m below this flt in footwalli also minor mo and carbonate fracture filling								
147.5	149.5	ser chl	40	- 147.7 - 1 - 2 cm qtz Vi white ;greyi 2 different emplacements;								
			12	- 148 - 1 cm qtz Vi milk whi tr mo;py;po								
		ser chl		- 148.2 - 1 cm qtz Vi milk whi a brx assoc w/emplacementi tr mo;py;po;sphali chl;qtz as brx matrixi ser;chl pervasive throughout sample	tr	53020	147.5	149.5	2	0.3	nd	
149.5	152.5	hem chl ser	28	- 151.5 - 1.2 cm qtz Vi milk whi 2% mo predom. as selvage; truncates a qtz stringer/shear at 0 wrt c.a.i truncated by mo smeared slip surf at 35 to c.a. (similar directions)minor qtz stringers & cal frac fillings	tr	53021	149.5	152.5	3	0.5	nd	
			50	- 154 - 0.8 cm a brx/sheari chloritized w/smeared mo/graphite on slip surfaces; truncates 1 cm qtz Vi milk wh w/1% mo at 19 to c.a. (opposite orientation)								
155	158	ser chl	70	- 155.5 - 156 - flt/shear brx; assoc w/ 2mm graphitic/mo gouge (156',70 to c.a.) and smaller; "milled" fragments; majority fragments 2-10 cm; angular; healed w/qtz-carbonate;py;po locally								
			70	- 10% / 1 cm adjacent to sheari cm qtz Vi milk wh at f.w. contact								

				w/shear; 157 - 158 rubble in core box; tr-1% sulphide assoc w/ frac's and slip surfaces	tr	53022	155	158	3	0.6	nd	
158	160	ser chl	45	-158 - 158.5 - rubble in core box w/many slip surfaces (mo/graphite,sericite) some low angle surfaces (10 - 20) contain up to 5% f. gr., enledral py; alteration less intense	tr	53023	158	160	2	0.9	nd	
161	163	chl ser	35	- 161.5 - 1.5 cm qtz - carb V w/inclusions of wallrk; tr py,po								
			55	- 161.8 - 1.0 cm qtz-carb V (as above) truncates 5 mm qtz-mo (5%) V at 12 to c.a.								
				- 162.5 - m qtz-mo and qtz-carb stockwk over 8", orientation as above; 10% moly	tr	53024	161	163	2	0.3	nd	
163	166	ser grg		- 164 - qtz-mo V & qtz-carb veinlet stockwork over 1' w/ m, assoc mo smeared slip surfaces; qtz-carb later qtz-mo; carb later than qtz (free qtz xtals); tr py in qtz-carb; 5% mo								
			28	- 164.5 - 1-2cm qtz-mo V								
				- 164.5 - 165'- rubble in core box w/variety of sericitic or graphite/mo slip surfaces; rep's m frac/flt	tr	53025	163	166	3	0.4	nd	
			22	- 167.5 - 1 cm qtz-mo V; 2% mo								
				- 168 - alteration decreases in intensity at this pt. grywke grey to red- brown (hem) (as opposed to olive green coloration due to pervasive sericitization & chloritization)								
			22	- 170.5 - 1 cm qtz V w/o shear; chloritized (m)								
			60	- 170.7 - 10 cm rubble in core box assoc w/m flt/shear (2 mm gouge)								
176.5	179	ser chl pot? arg		- 176.5 - 179 - grywke sericitized w/lesser chloritization due to netwk of qtz-carb stringers; tr py, mo w/stringers								
180	182			- argillite, black, aphas q/ .5mm white spots of alteration; tr py, po assoc w/hlf's & disseminated								
				- 182 - 10 cm skarn band, siliceous, at argillite/greywacke contact; pale green (chlorite, diopside); qtz,carb; w/fine - med grained red/ brown alunite?/scheelite diss over 2 cm in centre of band; unmineralized								
182	188	hem		grywke; occ. qtz stringers; pyrite hairline frac fillings; slip surfaces; some blocky core w/ m argillite sections								
188	191	arg		- 188 - 190 - rubble in core box represents sheared argillitic section w/in grywke; many graphitic slip surfaces at variety of orientations								
				- 1 go argillite/grywke contact								
188	191	hem	25	- 190.2 - 1.3 cm qtz-mo v; 5% mo, tr py as selvage; "stylolytic" contact (contoured) w/the grywke - occ cal hairline frac. fill for remainder of sample	tr	53026	188	191	3	0.3	nd	
191	193		45	- 191.3 - 2cm qtz v - assoc q/ m slip surfaces at both contacts;								

					mo/graph and tr-1% py assoc w/ slip surfaces							
				20	- 192.8 - 2.5 cm qtz vi milk whi tr py, mo, c chl alt'n; less alteration at this depth	tr	53027	191	193	2	2.1	20
					- occasional interbeds of argillite (cm's) within greywacke							
196.5	198.5	chl ser pot sil		90	- 197 - 15 cm thick silicified band, bounded by hematized? (spotty purple) grywke, pervasive sil w/chl, sericite, potassic (spotty) alt'n in centre, many hairline stringers vein lets (2mm qtz-mo-muscovite at 80° to c.a.; cht-py stringer at 8° to c.a.							
					- 198.3 - 2cm silicified band (as above)	tr	53028	196.5	198.5	2	0.1	nd
158.5	201.5	arg ser		35	- rubble in core box, 5-10 cm pieces w/ 70% qtz content; represents qtz v approx 1.3' wide bounded by minor (3mm) surfaces; tr py, mo in qtz; argillic, sericitic, & chloritic alteration w/qtz; & gouge formation along frac/slip also graphitic/mo smeared surfaces ; & brx in qtz; also & carb v component	tr	53029	198.5	201.5	3	0.2	nd
201.5	207	ser chl			- 201.5 - grywke fracture rubble or cal stringers, slip surfaces in core box w/occ qtz							
					- 204 - & flt/shear w/argillaceous, chloritic, or sericitic slip surfaces (7 over 10 cm) 50-70° wrt c.a.							
207	209	ser chl		80	- 207.3 - 1.5 cm sheared qtz v (contorted with chloritic clay band (1-3 mm))							
					- sample mostly rubble (1-5cm pieces)							
					- 207.8 qtz brx over 10 cm; angular fragments (1mm - 2cm, sericitized) healed w/qtz (white-grey)							
				50	- 207.9 - 1.3 cm qtz-carb v, brecciated for 1 w/2 cm or either side ; healed w/carbonate, tr py	tr	53030	207	209	2	0.6	15
209	211	ser chl			- 209 - continuation of breccia from above for 8 cm							
				70	- 210 - qtz stringers/vein, 1.3 cm in total for 3 veinlets; spatially assoc w/cal hairline fracture network which postdates quartz; pervasive sericite	tr	53031	209	211	2	1.6	nd
		chl		80	- 212 - 1.3 cm qtz-chl vein							
		chl ser		80	- 212.5 - 1cm qtz v w/assoc chloritic and sericitic alt'n for 5 cm's on either side							
				70	- 212.8 - 1-2 cm band chl-ser alt'n							
				50	1mm mo/qtz-mo vein							
214	218				- 214 - argillite (as above)							
					- rubble in cone box representing flt/adjustment zone within argillitic section, many slip surfaces (calcite, clay, and graphite/mo assoc w/& qtz); variety of orientations							
218.5	220.5	chl		40	- 219.7 - 0.8 cm qtz - chl vein within blocking core; many py fracture fillings and diss py/po; py frac fill hairline w/calcite; variety orientations; locally 1% cm; fractured section w/occ slip surfaces.	tr	53032	218.5	220.5	2	0.3	10
220.5	222.5	arg			- rubble in core box, predom fractures w/some argillized slip							

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					surfaces									
				25	- a qtz v (.8cm) w/tr py, mo									
					- a radial marcasite (2mm) w/cal h.l.f. fillings	tr	53033	220.5	222.5	2	0.2	nd		
223	224				- rubble in core box w/ a qtz brxi a flt/fracture zone									
232.5	234.5	chl		58	- 10 cm qtz v w/ py, po, muscovite, and chlorite assoc w/hairline									
		ser			frac's, perv silicic, sericitic, chloritic and spotty, potassic									
		sil			alt'n for 10 cm into hanging wall.	tr	53034	232.5	234.5	2	0.3	nd		
		pot												
234.5	236.5				- blocky core/rubble; many argillaceous slip surfaces w/smeared py/po (locally 3% cm)									
				75	- 234.7 - 1 cm qtz v, milk wh w/ tr mo									
236.5	238.5	hem		63	- 237.5 - 3 cm qtz - mo v; mo diss to sheeted in qtz, tr py									
				20	- 238.0 - 0.8 cm qtz v, tr mo, tr ser	tr	53036	236.5	238.5	2	0.1	nd		
					- argillite w/ syngentic py blebs (.5mm, 1%)									
					- 240 - 10 cm patch of chl, epi, ser, pot and silicic alt'n w/ tr py									
				45	- 240.5 - 0.8 cm qtz v w/ tr mo, py									
					- 240.5 - 243 - frac rubble in core box w/ some argillaceous, calcitic slip surfaces around 242'									
					- 243 - 250 - blocky core rubble; 1-10 cm; mostly fracture rubble with a argillaceous slip surfaces and calcite hairline frac coatings - argillite									
250	252			30	- 250.5 - 20 cm qtz v, milky white w/1% mo & tr subhedral py assoc w/ h.l.f.s.									
		chl		40	- 251.6 - 12cm qtz v, as above w/tr chloritic, sericitic alt'n									
		ser			- 251 - 252 - core rubble; mflt & fractures; fragments 2mm - 10 cm; angular	tr	53036	250	252	2	0.1	nd		
253	255			12	- 253 slip surface w/ mo, calcite & py slix									
		arg			- 253.5 - 254 - rubble in core box w/ mo, calcite slix and "milled", rounded fragments (~1cm) containing tr - 1% py, tr gal, py, sub-uehedral, to 3mm; argillic alt'n & a gouge formation									
					- section represents a fault	tr	53037	253	255	2	0.9	5		
255	258.5				- argillite w/occ qtz stringers w/tr mo									
258.5	260.5			60	- 259 - 2 qtz veins (1 cm, 1.5 cm), mille wl w/tr mo, chl, irregular contacts									
		chl		51	- 260 - 5 cm garnet diopside skarn band & tr sulphide along									
		ser			h.l.f.s.	tr	53038	258.5	260.5	2	0.5	nd		
				45	- 263 - 1 cm qtz v w/mo									
266	268	sil		12	- 266.5 - 0.8 cm qtz v w/ 1% mo, tr sphal, tr muscovite									
		ser												
		py		45	- 267.0 - 15 cm qtz vi milky wh; 3% mo; 1% sphalerite; tr py, po;									
		chl			1% muscovite, tr chl, ser in qtz; silicification, pyritization, & sericitization for 7 cm into hanging wall; a shear/slip surface at both upper & lower contacts	tr	53039	266	268	2	0.7	nd		

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269	271			30	- 270 - 25 cm qtz vi milky white-grey; tr 1% mo; tr 1% py; po; sulphides concentrated along contacts & hairline frac's; mo as medial (growth) concentrations w/in vein - 270.7 - 271.0 - 3 cm garnet-diopside skarn material	tr	53040	269	271	2	0.3	nd	
271	273			45	- 272 - 64 cm qtz v (as above) w/ 10 cm angular inclusion of garnet/diopside skarn at 272.7'	tr	53041	271	273	2	0.1	nd	
275	277			55	- 275.3 - 5 mm qtz/chl/sulphide veini 5% mo; py; po; irregular contacts								
		ser chl		50	- 276.5 - 12 cm qtz vi milky white-grey tr mo; py; musc; ser; shl: 1-2 cm mildly sheared diopside-garnet skarn material at both contacts	tr	53042	275	277	2	0.1	nd	
				30	- 279.5 - 1 cm qtz - mo v								
				45	- 281.5 - 0.8 cm qtz v w/ 1% mo; py; po; sphal								
282.5	284.5	arg ser		57	- 283.3 - 14 cm qtz vi milky whi 1-2% mo; py concentrated along growth bands (2 phases) in centre of veini + musc i.e. veini argillic & sericitic (a) alt'n along fractures w/in vein	tr	53043	282.5	284.5	2	0.3	nd	
285	288	ser		45	- 285 - 33 cm qtz - kspar veini banded w/ three; 1-1.5 cm perthitic kspar (white(flat)) vs grey-white qtz; tr py; mo assoc w/ qtz & h.l.f.s. throughout; + muscovite/sericite growth bands (2 phases) in centre of vein; + muscovite in veini argillic & sericitic in alt'n clay fractions w/in vein - 285.5 - 288 rubble in core box w/~5% qtz & qtz/carb brx; many slip surfaces w/ cal; argillaceous or poly slickenside/tr material - represents flt/shear zone over 2.5'	tr	53044	285	288	3	0.6	nd	
288	290			55	- 288.5 - 14 cm qtz -mo v 2% mo; tr py								
				15	- 289 - 1.5 cm qtz vi 1% mo								
				55	- 289.3 - 1.0 qtz vi tr mo; tr py w/ h.l.f.s.	tr	53045	288	290	2	0.5	nd	
				70	- 292.5 - 1.0 cm qtz v; tr mo								
293	298	arg ser			- QFP dyke granite or qtz monzonite in composition; anhedral qtz eyes (1-2 mm; 2%); subhedral kspar (1-3 mm; 1%); qtz/mo stringers; mo; ser; cal slip surfaces throughout (1/10 cm); + argillic; sericitic alt'n; tr epidote; aphanitic to f.g. qtz - kspar matrix								
296	298	ser arg			- 297 - 10 cm small angular rubble in core box (1-5 cms) w/ argillaceous; sericitic; and argillic material assoc w/ slip surfaces; minor fault; tr py	tr	53046	296	298	2	0.3	nd	
298	300			55	- 298.4 - 1.5 cm qtz vi tr mo; py; graph/mo 5.5 at lower contact								
				73	- 299 - 5 cm qtz vi tr mo; truncated by mo smeared slip surface at 12 deg to c.a.; cal h.l. frac fillings throughout sample; low angle mo slip surfaces cause rubble from 299 - 300'	tr	53047	298	300	2	0.5	nd	
300	302			10	- 300-301 continuation of rubble caused by low angles; mo slip								

				surfaces w/ m assoc qtz w/ tr py								
			75	- 301 - 0.8 cm qtz vn m shear w/ mo & py locally 5% over 1 cm; truncated low angle structures								
			80	- 301.7 - 5 cm qtz/carb brx; angular frag's 1 mm - 1 cm	tr	53048	300	302	2	0.5	nd	
			5	- 302 - 0.7 cm qtz - mo v								
305	308		80	- 305.5 - 1.5 cm qtz vn tr mo; py; mo slip surfaces along both contacts								
			33	- 306 - 12 cm qtz mo vn tr py; ser; chl								
			38	- 307.5 - 14 cm qtz vn w/ mol intruded by concordant; 1.5 cm QFP dyke et (as above); tr py; occ mo slip surf's throughout sample	tr	53049	305	308	3	0.4	nd	
308	310			- 308.3 - 10 cm calcite brx/m flt; rubble in core box; 1-10 cm frags; sericitic argillic alt'n; tr py								
			40	- 311.5 - 1cm qtz/fspar/chlorite vn contorted/sheared w/ tr sulphide; sericite								
			10	- 313 - 1.2 cm QFP dykelet w/ medial conc's of muscovite (1-3 mm)								
			28	- 314 - 1.5 cm QFP dykelet (as above); tr sulphide								
314.5	322	ser arg	30	- QFP dyke (as above); m shear/brx over 10 cm at upper contact; some coarse/"pegmatitic" sections (kspar xtals; each; to 1 cm) & related textures: indicating open space infill; tr - mod sericitic; argillic alt'n throughout								
				- occ mo; ser slip surfaces; f/med grained mafics 2% / 1% pink blebs (kspar?); mafics chloritized; argillic; sericitic alt/n assoc w/ frac's slip surfaces; tr diss py; po								
			40	- 318 - 2 cm qtz v								
322	323			- 322 lower contact dyke argillite								
323	323.5			- andesite porphyry dykelet; aphanitic - f grained; plag? pheno's (1 mm; tr) hematized; m hornfelsing of adjacent seds								
326	327			- rubble in core box; predominantly fracture w/tr py; argillite								
			55	- 330.5 - 1 cm qtz - mo v (1% mo)								
331	331.7			- andesite porph dykelet (as above)								
331.7	332.8			- rubble in core box; argillite & m QFP frag's; 1 mm - 5 cm; angular; predom frac								
332.8	439.5			- argillite								
			65	- 340 - 1 cm qtz v; tr mo								
340.5	342.5	ser chl	35	- garnet-diop skarn band; tr py; po; chalcopy assoc w/ h.l.f.s. argillite	tr	53050	340.5	342.5	2	0.3	nd	
			60	- 344 - 1 cm qtz mo v								

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344.5	346.5				:- 344.5 - 345 - rubble in core box w/ argillaceous slip surf & cal frac filling								
				20	:- 345.5 - 1 cm qtz - mo (salvage) v								
				35	:- 346 - 8cm qtz mo v w/ tr 1% py; m ser, musc, chl: truncated by low angle (5 deg to c.a.) mo smeared slip surf	tr	53051	344.5	346.5	2	0.3	nd	
350	352			25	:- 350.5 - 0.8 cm qtz vi tr py								
					:- 350.5 - 351.0 - rubble in core box w/fracture & slip surfaces containing up to 2%, diss f.g. py	tr	53052	350	352	2	0.2	10	
352.5	354.5		hem	20	:- 352.7 - 0.5 to 1.0 cm qtz vi 1% py, po								
				75	:- 353.5 - 1.2 cm qtz vi tr mo, py	tr	53053	352.5	354.5	2	0.4	nd	
				63	:- 354.5 - 2 cm qtz v & 4 cm QFP dykelet (as above)								
				85	:- 361 - 1.3 cm qtz - mo v (1% mo)								
				50	:- 361 - 0.8 cm qtz - mo v (1% mo) intersection								
				50	:- 364 - 1.8 cm qtz - mo v (2% mo)								
368	370				:- 368 - 368.5 f.g. brx/replacement?; angular frag's 1-4 mm; hematized w/in felsic matrix (soft); hence prob alt'n/replacement effects								
		chl			:- 368.7 -369.3 - 14 cm garnet-diop skarn pod, tr sulphide	tr	53054	368	370	2	0.2	nd	
		ser											
		hem											
372	374	chl			:- 30 cm hematized, replacement; 14 cm skarn section (as above)	tr	53055	372	374	2	0.1	nd	
		ser											
		hem											
		chl		45	:- 376 - 2 cm qtz v (tr mo)								
375.5	378.5	arg			:- core rubble w/ brx frag's, many slip surfaces, & m qtz; rep's fiting	tr	53056	375.5	378.5	2	0.3	nd	
		chl											
378.5	388				:- and./bslt dyke; dk grn to blk; aphan to f. gri porphyritic w/ 3% f. gr. felsics & tr emed & matic blebs; tr 1% fig py; po diss throughout; post mineral intruding zones of struc weakness								
388	390				:- flt rubble in core box								
390	393	arg			:- flt rubble in core box; calcite brx (argillite frag's), m qtz m 5% py/ 1cm	tr	53057	390	393	3	1.9	10	
				60	:- 393 - 0.6 cm cal brx vein								
				10	:- 393.5 - 0.6 cm qtz v, tr sulphide								
				75	:- 393.7 - 1.0 cm qtz v, tr sulphide, mo								
396	398	chl			:- rubble in core box (flt), m qtz; m carb vein material; tr sulphide	tr	53058	396	398	2	0.5	5	
		arg											
398	400	arg			:- core rubble w/ 12 cm garnet-diop skarn section	tr	53059	398	400	2	0.2	90	
		chl											
		ser		70	:- 399.7 - 2 cm qtz v, 1% mo; tr py								
400	402				:- flt rubble in core box; cal ss; unmineralized tr								
402	404	arg			:- flt rubble in core box; cal ss; some unmineralized								
					:- argillaceous ss w/ tr (1%) smeared py	tr	53060	402	404	2	0.2	nd	

		hem	75	- 408 - 0.8 cm qtz v; (1%) mod hematitic & argillic alt'n for 1.5 cm on either side of v								
		arg										
415	418	arg		- flt rubble in core box; argillite; cal brx; m qtz veining; mod								
		hem	55	argillic & argillaceous ss; tr sulphide								
				- cal brx continues to 418.5	tr	53061	415	418	3	0.5	5	
420	422	chl		- garnet-diop skarn	tr	53062	420	422	2	0.3	55	
422	429	ser		- fracture rubble in core box								
		chl	70	- 426 - 0.8 cm qtz v; 1% py as medial line concentrations								
		ser										
				- 431 - cal brx w/ a few mm ss over 15 cm								
			70	- 432.5 - 1 cm qtz vi 1% mm along irregular shear contacts; tr py								
435	437.5			- fracture; m flt; m brx rubble in core box								
437.5	439.5	hem		- flt brx rubble in core box; cal brx (argillite); m qtz vi cal								
		arg		v/brx in centre of sample; tr sulphide	tr	53063	437.5	439.5	2	0.7	10	
439.5	561.8			- pink/brown (hematized) siltstone begins (flt contact w/ argillite)								
442.5	444.5	ser		- 442.8 - 10 cm section sericitized; pyritized along h.l.f.s. & perv/diss								
				- 443.5 - intersecting qtz stringers (15 ; 65)								
			45	- 444 - 1 cm qtz v intruded by 1 cm dykelet (~80 to c.a.); cream								
				grn/grey colour w/ 5 % qtz; fspar pheno's (to 2mm) and 1% diss								
				py	tr	53064	442.5	444.5	2	0.3	10	
			75	- 446.2 0.8 cm qtz vi 1% mm								
			30	- 448 - 1.0 cm sheared qtz v; 1% mm								
			80	- 450 - 1.6 cm qtz v; tr mm; frac rubble in conc box; m								
				sericitized & pyritized h.l.f.s.								
454	457	arg		- altered; brecciated; replacement section; argillic; sericitic								
		ser		alter & pyritization (tr 1%); assoc w/ h.l.f.s.; qtz stringers; &								
		hem		diss								
			75	- 455 - 1.5 cm qtz stringers; & diss	tr	53065	454	457	3	1.4	20	
457	460			- core rubble assoc w/ above; m qtz	tr	53066	457	460	3	0.5	5	
460	463	arg		- sheared; brecciated; altered section; argillized; sericitized;								
		ser		calcite stringers; trucation surfaces (of qtz v's) at 45 to c.a.;								
				tr py frac fill/fill of shear por	tr	53067A	460	463	3	0.8	nd	
				- 461.5 - 1.2 cm; 3 cm qtz v (tr 2%) mm) at 20 ; 45 ? to c.a. w/ flt contact								
				- 465 - argillite w/ siltst (intbdd/facies gradations?)								

466.5	468.5	ser hem arg		- frac rubble in core box; occ cal ss/frac fill w/ 1-2% anhedral; f-med gr py	tr	53068A	466.5	468.5	2	0.8	nd	
468.5	471.5	hem arg		- flt/frac rubble in core box (as above)	tr	53067B	468.5	471.5	3	0.4	5	
471.5	474.5	hem arg	60	- 472.5 - 2 cm qtz vi 2 % mo as salvage w/ growth bands; otherwise flt/frac rubble (as above)	tr	53068B	471.5	474.5	3	0.3	5	
474.5	477.5	hem chl arg	45	- flt/frac rubble (as above) - 477 - 1.8 cm qtz v w/ tr mo, py; truncated by chloritized shear & carbonate fracture filling; some h.l.f. brx/netwk (sltst) healed w/ cal	tr	53069	474.5	477.5	3	0.3	nd	
477.5	480	hem arg	80	- brx (as above w/ altered/replaced grywke (soft, grey-pink matrix w/ angular, partially penetrated remnants (2 mm's) qtz) - occ qtz veinlets (three); tr mo	tr	53070	477.5	480	2.5	0.4	nd	
480	483.5	hem chl	50	- frac rubble in core box w/ m skarn, m brx (chloritized); unmineralized - 486.2 - 2.4 cm qtz vi tr mo								
486	489	hem arg chl		- flt/frac rubble w hematized, chloritized, replaced sltst/grywke; tr sulphide assoc w/ h.l.f.s., qtz/carb stringers	tr	53071	486	489	3	0.3	nd	
489	492			- as above, flt/frac rubble	tr	53072	489	492	3	0.2	nd	
492	494			- as above, some clay/gouge material								
			45	- 493.2 - 1-2 cm qtz v/brx w/ occ hem, chl, py (1%)	tr	53073	492	494	2	0.3	nd	
494	496			- as above; flt/frac rubble; tr diss py throughout								
			45	- 495.2 - 3 cm - qtz v/brx	tr	53074	496	496	2	0.2	20	
496	499			- as above - flt/frac rubble	tr	53075	496	499	3	0.1	nd	
499	502			- as above - flt/frac rubble; alt'n decreasing in intensity	tr	53076	499	502	3	0.2	5	
502	503			- recognizable argillite w/ cal stringers, py - frac fill (h.l.) throughout								
503	506	hem ser		- m brx/altered argillite; patchy sericitization; m qtz veining; tr sulphide w/ h.l.f.s	tr	53077	503	506	3	0.2	nd	
506	509	hem arg ser		- flt/frac rubble; as above; m qtz, m carb	tr	53078	506	509	3	0.1	nd	
509	512	hem arg ser		- flt/frac rubble (as above); some larger volc frag's (6 cm) w/in sedi; occ qtz mo veinlets	tr	53079	509	512	3	0.2	nd	
512	514.5	arg		- flt brx/frac rubble (as above)	tr	53080	512	514.5	2.5	0.3	nd	
514.5	523.5			- andesite porphyry dyke; med grn; aphanitic w/tr 1%, f-med gr plagioclase phencrysts; tr py diss; silicified in places; occ cal stringers (1/15 cm)								
523.5	525.5	chl arg		- flted & brecciated andesite porphyry; chloritized w/ gouge formation in places; healed w/ calcite; rel unmineralized -rubble								

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					in core box	tr	53081	523.5	525.5	2	0.1	nd	
525.5	527				- and./dac? porphyry dyke; dk grni aphanitic w/ 2% felsic pheno's (plag, tr qtz to 4 mm); 2% mafic phenos (1 mm, chloritized)								
527	529				- flt brx; argillite healed w/ calcite	tr	53082	527	529	2	0.6	nd	
529	531			80	- and. porphi med grn (as above); occ cal stringers								
531	533	arg			- 531 - 532 flt/brx rubble w/ gouge formation; m prosity; tr diss py								
					- 532 - 533 cal stringers; blocky core	tr	53083	531	533	2	0.2	10	
533	541				- and. porph (as above)								
541	543	chl			- flt/frac rubble in core box								
		arg			- most evet localized around 542.7 where calcite brecciation and								
				50	flt gouge formation is most intense (over 20 cm); rel unmineralized	tr	53084	541	543	2	0.1	nd	
543	558.7				- and porph (as above)								
					- 558 - 558.7 aphanitic chill margin indicates andesite dykes postdate tidewater stock								
558.7	561.7				- granodiorite/qtz monzonite tidewater stock; med.-crse gr; salt & pepper; an-euhedral								
559	561	ser		75	- 560 - 2 frac's/slip surfaces w/ smeared mo & assoc sericitic								
					alt'n subparallel; also 1.5 cm qtz vn concordant	tr	53085	559	561	2	0.3	10	
561	561.8				- and porph (as above); v.f tr. chill margin w/ 4 cm shear/brx contact (lower) w/ tw stock								
561.8	573.5				- TW stock; granite-qtz monzonite								
		ser		25	- 563 - 1 cm qtz v w/ sericite (3%); tr py								
				20	- 564 - 1.4 cm qtz v								
566	569	arg			- fractured TW stock w/ m shear								
		chl			- m qtz v (80 to c.a.) w/ assoc chl, ser, tr, py; m brx/gouge								
		ser			formation								
				30	- 567.5 - 1.3 cm qtz v & 0.8 cm qtz v (intersecting); locally 5%								
				75	py/1 cm								
					- shear brx over 50 cm in centre sample								
				80	- 568.2 - 5 cm qtz vn tr mo	tr	53086	566	569	3	0.3	nd	
				75	- 570 - 2.5 cm qtz v; 2% mo								
571	574	chl		75	- 571.3 - 1.4 cm qtz v; 1% mo								
		arg			- 572.3 - 10 cm patch qtz v/brx; m shearing; alteration; qtz								
		ser			stringers; tr sulphide assoc w/ frac's	tr	53087	571	574	3	0.1	nd	
				75	- 572.8 - 1 cm qtz vn m brx								
					- 573.5 - 10 cm intrusive brx								
					- sample also includes 10 cm of chill margin from the following intrusive								
573.5				75	- shear/intrusive contact								

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573.5	591			:- andesite/dacite porphyry; dk grn-gry; plag pheno's (some zoned; to 5 mm) 15%; possibly dacitic composition since rel siliceous; 30% v. f. g. mafics; chloritized; in places this lith has a micro-dioritic texture									
591	593			75 :- contact :- andesite/basalt dyke; dk grn-blk; aphanitic (very); w/ white calcite blebs (round; anhedral; amygdules?; to 3 mm; 1%; crudely laminated)									
593	601			:- and/dac porph (as above)									
				75 :- lower contact									
601	612			:- TW stock granite - qtz monzonite									
601	604	chl ser arg		:- 601.0 - 601.4 - shear/brx contact w/ dyke; tr mo; tr ser; chl; fspar pheno's argillized; shear planes; carb v (1.5 cm) concordant w/ contact									
				10 :- 601 - 0.8 cm qtz vn 1% sub-euh. py; ser									
				80 :- 601.5 - 3.3 cm qtz vn tr mo									
				:- 601.5 - 604 - low angle fracture rubble in core box w/ argillized; sericitized surfaces	tr	53088	601	604	3	0.2	nd		
604	607	chl ser arg		:- 604 - 605 frac rubble in core box; alt'n as above									
				30 :- 604.7 - 0.6 cm qtz v (ser;arg)	tr	53089	604	607	3	0.2	5		
				15 :- 605.3 - 10 cm qtz v; alteration as above									
				80 :- 607.4 - 0.7 cm qtz vn tr ser; tr mo									
				25 :- 607.4 - 0.9 cm qtz v									
				:- mo ss @ 80 to c.a.									
				75 :- 608.4 - 1 cm qtz v									
609	612			70 :- 609.5 - 2 cm qtz v									
				80 :- 610 - 1.2 cm qtz vn 1% mo									
				:- tr 2% ser; py; tr mo; assoc w/ low angle frac's; 1/30 cm increase in density towards intrusive contact	tr	53090	609	612	3	0.6	10		
612	618			75 :- contact; and./bslt porph dyke; dk grn-gry-brown (as above) w/ cal (1 mm) blebs /amygdules									
618	620	arg		:- flt/shear rubble in core box; contact w/ TW stock; rubble is altered dyke rock (arg) w/ cal brx matrix fill/cal frac fill	tr	53091	618	620	2	0.3	nd		
620	621.3	chl arg		:- TW stock; minor to mod shear/brx; tr mo w/ ssi tr py; shear contact over 2 cm w/ intrusive @ 55 to c.a.									
621.3	623.6			:- and/bslt porph; dk grn-gry-brown as above w/ cal blebs/amygdules to 1 mm	tr	53092	620	621.3	1.3	0.6	nd		
623.6	628.5			:- TW stock (as above)									
				63 :- 624 - 1 cm qtz vn tr mo									
624.5	626.5	ser		60 :- 625 - 2.3 cm qtz vn tr mo									

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		arg										
				- tr ser; mo py assoc w/ h.l.f.s; tr diss py throughout								
			70	- 626 - 1.6 cm qtz v; tr mo								
				- 627 - qtz v intersection; 0.6 cm (20% to c.a.) & 1.7 cm (70 to c.a.); tr mo; py								
			12	- 626.5 h.l.f.s. filled w/ py>po	tr	53093	624.5	626.5	2	0.2	60	
626.5	628.5	chl		- TW stock w/ m qtz veining; qtz stringers; m shearing;								
		ser		approaching contact w/ dyke; tr chl; ser; py; po; mo w/ qtz								
				stringers & h.l.f.s.	tr	53094	626.5	628.5	2	0.6	nd	
628.5	640			- and./bslt plagioclase/porphyry dyke; indistinct contact angle								
				therefore m shear contact; dk grn-gry-black; v.f. to med gri								
				random plg lath's ("felted"; 1x3mm; 10%); mafic xtals(1 mm 7%) in								
				aphanitic to v.f.g. matrix								
				- minor cal filled (amygdules) w/ chl rims								
640	642	chl		- TW stock inclusion on shear sliver w/in and/bslt plag/porph (as	tr	53095	640	642	2	0.3	nd	
		arg		above)								
		ser	75	- 641.5 1 cm qtz v								
			75	- 640.5 - 2.5 cm qtz vi tr mo								
			10	- low angle h.l.f.s. w/ 2% py (locally over 1 cm); ser; chl; tr								
				sphal; m argillaceous slip surfaces								
642	646			- and/bslt plag porph (as above)								
646	651.6			- TW stock (as above)								
647	649	chl	80	- 647.5 - 1.4 cm qtz vi 1% mo								
		arg	10	- low angle h.l.f.s w/ tr 1% pyi chl; ser; arg	tr	53096	647	649	2	0.2	nd	
649	651			- as above (53096)	tr	53097	649	651	2	0.3	15	
651	654.3		65	- and/bslt plag porph; plag laths less distinct; tr cal								
				blebs/amygdules; contact 65 to c.a.; f.g. chill (1 mm) margin								
				over 10 cm; plag lath's flow lineated parallel to contact (over								
				10 cm)								
654.3	656.3	chl		- TW stock (as above) w/ low angle h.l.f.s. (10- 40 to c.a.; 1/15								
		arg		cm) carrying 1% py; po; sphal (lt red/brown); sphal also diss (3								
		ser		mm; 3%); sulphides locally 5%/1cm; ser loc to 10% assoc w/								
				h.l.f.s. & sulphidization	tr	53098	654.3	656.3	3	3.4	nd	
656.3	659.3	arg		- TW stock (as in 53098)	tr	53099	656.3	659.3	3	3.0	25	
		ser	35	- 658.8 - 2 cm qtz v w/ 10% f.g. massive py; tr po; sphal;								
				tetrahedrite w/in or adj to vein; tr ser; argillic alt'n; m								
				carbonate content in vein (1-2%)								
659.3	662.3			- TW stock (as in 53098); less mineralizated however; occ high								
				angle qtz/mo veins; tr py	tr	53100	659.3	662.3	3	0.6	nd	
665.5	668.5	arg		- flt/frac rubble in argillite; occ qtz v/stringer; m gouge								
				foreation; smeared py & mo on slip surfaces; also cal								
			80	- 668 - 1.2 cm qtz v; 1% mo								

		hem	80	- 668.7 1.0 cm qtz vi 1% mo, tr py, py h.l.f. fill oblique to v	tr	53101	665.5	668.5	3	0.6	5	
668.5	670			- rel competent argillite; m hem alt'n assoc w/ occ qtz v/stringer								
670	673			- flt/frac rubble in argillite (as in 53101)								
			53	- 670.5 - 2.3 cm qtz vi 1 % mo, tr py								
			75	- 672 - 1.3 cm qtz vi sheared								
				- py smeared slip surfaces usually low angle (10-20 to c.a.)	tr	53102	670	673	3	1.3	nd	
675			47	- contact argillite/and-bslt plag porph (as above); good intrusive contact w/ conc py i m cal blebs								
675	679			- and/bslt plag porph; lower contact 80 to c.a.								
679	682.3	hem		- argillite; sheared, flted, frac'd; sample is half rubble from								
		chl		680 - 682 (as above)								
		ser	28	- 679.5 - 0.7 cm qtz vi offset and repeated by 5 mm calcified shear at 55 to c.a. (left lateral/normal mvmt looking downhole displ 5 - 10 cm's)	tr	53103	680	682	2	0.8	nd	
				- silicic & calcic hairline stringers throughout forming network								
682.3	690			- and/bslt porph; plag laths not as predominant however								
690	691	chl	55	- qtz breccia; calcified slickensides, m shear at both contacts;								
		ser		frag's 1 mm - 5 mm, subangular; matrix chlorite, sericite, argillaceous material (originally included sediments?); tr py; represents consolidated qtz v/brx flt zone?	tr	53104	690	691	1	0.2	5	
691	693			- and/bslt dyke (as above)								
			40	- lower contact								
693	695			- argillite flt/frac rubble (as above); m qtz content (<1%); low angle (10) & high angle (80) surfaces	tr	53105	693	695	2	0.7	10	
695	696			- argillite rubble								
696	698	hem		- flt/frac rubble; cal, py frac fill/slip surf smear to 1%								
			75	- 697.7 - 2 cm qtz vi tr mo; tr py as h.l.f. fillings	tr	53106	696	698	2	1.5	5	
698	716			- argillite (as above) w/ patchy hornfels alt'n; occ high angle qtz-mo veins; relatively competent; fractured every 10 cm, m cal, py h.l.f. fillings;								
			20	- 701 - 0.8 cm qtz vi 1% mo								
704	707	hem	45	- 704.5 - 2 cm qtz vi 1% mo; tr py								
		chl		- 704.8 - 1 cm qtz vi w/ 1% py, po								
		ser		- 1' patch of sericitized & silicified argillite; qtz cal								
		sil		stringers throughout								
				- 706 -707 flt/frac rubble (as above)	tr	53107	704	707	3	0.3	30	
707	709	hem	50	- 708 - 0.7 cm qtz vi 5% mo								
		chl		- 708.5 - 0.5 cm qtz vi chl salvage; tr mo								
		ser		- silicified, sericitized, pyritized (1%) patch (over 20 cm)								
		sil		assoc w/ minor (cm's) intrusive (v.f.g.) apophysis	tr	53108	707	709	2	0.7	nd	
716	720			- TW stock; f-med gr granite/qtz monz; occ qtz stringers w/ assoc py, mo ser, arg								
720	722			- inclusion seds (argill/gryuke)								

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722	727			:- TW stock (as above); QFP texture adjacent to sed inclusion								
723	726	arg		:- occ high angle qtz v/ masses; low angle (10) py h.l.f. fillings								
			50	:- 725.5 - 10 cm and/bslt plag porph dykelet	tr	53109	723	726	3	.4	5	
727	731.5			:- and/porph, med grn; f-med gr plag/phenos; aphanitic-f.g. matrix (as above)								
				:- upper contact w/ 2 cm qtz v (80 to c.a.)								
				:- lower contact w/ seds irreg (75 to c.a.)								
731.5	735.6			:- siltstone-hornfelsed (pink-purple) -occ qtz v w/ mo								
			75	:- 733.5 - 1 cm qtz v & 2 cm QFP dykelet, concordant								
735	738			:- qtz veined & brecciated contact w/ thd TW stock; qtz v/brx over 10 cm; ser, py (2%) on slip surfaces (variety of angles)	tr	53110	735	738	3	0.8	15	
				:- occ qtz veinlets, stringy, mo slip surfaces in QFP								
736	768			:- TW stock (as above)								
739	742	arg		:- moderately argillized & sericitized TW stock assoc w/ h.l.f.s.	tr	53111	739	742	3	0.9	20	
		ser	10	& graphite/mo coated slip surfaces (low density ~ 1/20 cm); tr 1%								
			80	mo, tr py diss & assoc w/ structures								
742	745	arg		:- as in 53111								
		ser	80	:- 744.5 - 1 cm qtz v	tr	53112	742	745	3	1.4	10	
745	748			:- as in 53111	tr	53113	745	748	3	1.9	nd	
748	751	arg		:- Frac/bx rubble in core box (cm's) from 748 - 749; tr pyi								
		ser		remainder of sample w/ high angle qtz v's stringers (1/5 cm) w/ tr py	tr	53114	748	751	3	0.6	5	
751	753			:- as in 53111								
			75	:- 3 cm qtz v w/ assoc ser, arg, mo, py (1%)	tr	53115	751	753	2	0.5	nd	
753	756	arg		:- as in 53111								
		ser		:- 753 - 754 rubble in core box; argillized flt/frac								
			80	:- 755.8 - 2 cm qtz v	tr	53116	753	756	3	0.6	nd	
756	759	arg		:- TW stock (as above) w/ relatively dense qtz veinlet/stringer								
		ser	80	system (1/5 cm continuous); tr mo, py, ser, arg	tr	53117	756	759	3	1.4	50	
759	762			:- as in 53117	tr	53118	759	762	3	1.1	nd	
768	770		80	:- and/bslt plag/porph (as above); f.g. chill margins (post TW stock)								
770	838			:- TW stock, QFP texture, occ high angle qtz veins								
			80	:- 772.3 - 2 cm qtz v								
773	776	arg		:- TW stock w/ 60% qtz v material w/ tr 1% mo, py w/ qtz/frac								
		ser		rubble w/ arg, ser surfaces	tr	53119	773	776	3	0.3	nd	
			80	:- 776.5 - 3 cm qtz v/mass w/ assoc mo, py, ser, chl (tr)								
			75	:- 777 - 3 cm qtz v								
779.5	782.5	ser		:- 15 cm & porph dykelet w/ cal blebs (<1 mm, 5%) w/ chl rims								
				:- 10 cm qtz v/brx at both contacts w/ TW stock; brx sericitized (m) w/ tr pyi argillaceous matrix	tr	53120	779.5	782.5	3	0.3	nd	

782.5	785.5			:- section of stock w/ rel intense qtz veining (80% qtz); variety angles to c.a. (50 , 20 , 80); same direction (i.e. sheeted vs. stockwork); m shearing w/ argillaceous slip surfaces; predom mo (1%) w/ tr py; m brx w/ argillaceous matrix; m ser, m chl; minimum 2 events	tr	53121	782.5	785.5	3	0.2	nd	
785.5	788.5			:- TW stock w/ less qtz v 85 :- 787 - 1 cm qtz-carb v w/ 1% pink sphal, tr py :- other high angle qtz veinlets/stringers to 10% total volume	tr	53122	785.5	788.5	3	0.2	nd	
788.5	793	arg ser		:- TW stock frac/m flt rubble in core box; 5% qtz content; tr py, ser; argillized 80 :- 788.5 - 3 cm gouge/flt brx (1 mm - 1 cm frags)	tr	53123	788.5	793	4.5	0.3	nd	
793	797	arg ser		:- TW stock frac/ m flt rubble (as in 53123)	tr	53124	793	797	4	0.1	nd	
797	800			:- as in 53123	tr	53125	797	800	3	0.1	nd	
800	801			:- and/porph w/ cal blebs (1 mm) as above								
801	804	arg ser		:- TW stock; mod sheared & brecciated qtz for 1' at dyke contact; m gouge formation; 2 episodes qtz emplacement; tr py in qtz 75 :- 802.2 - 3 cm qtz v 70 :- 802.6 - 3 cm qtz v	tr	53126	801	804	3	18.4	15	
804	813			:- TW stock; occ qtz v/stringers (1/10 cm) m ser, py assoc w/ stringers/ h.f.f.s								
813	816			:- TW stock w/ 90% qtz v's, stringers or siliceous replacement; 80 sheeted qtz emplacement (vs stockwk) 55 :- m brx w/ argillaceous matrix & tr py (some qtz "banding" may be cogenetic w/ TW stock i.e. concordant w/ m sections QFP material; irregular wavy lines vs frac/vein contacts, = volatile, qtz rich fluids assoc w/ stock)	tr	53127	813	816	3	0.4	nd	
816	819			:- TW stock, QFP 75 :-816.5 - 10 cm qtz v 15 :- oblique fractures (h.f.) w/in vein carry 1% mo,py	tr	53128	816	819	3	2.0	10	
821	824			:- TW stock, m flt/frac rubble; in argill shear material; 5% qtz material	tr	53129	821	824	3	0.3	nd	
824	827	hem arg sil chl		55 :- 824.3 - contact TW stock/sedst sample consists of 3 cm qtz v adj to stock (55) & a 2' section of moderately brecciated & altered sediments w/ approx 5% qtz v content	tr	53130	824	827	3	0.3	nd	
827.7	831			:- TW stock (as above), QFP,, occ qtz v w/ stringers								
831	834	hem arg chl		:- siltstone - m shear/brx contact w/ stock; 10 cm chloritized qtz-carb breccia, clay alt'n 70 :- 832 - 1.8 cm qtz vi tr mo	tr	53131	831	834	3	0.3	nd	
834	837	hem arg ser		80 - 834.3 - 3 cm qtz v w/ tr ser, mo, py 70 - 836 - 14 cm qtz vi shear contacts of m rubble; frac's; m slip surfaces (tr 1% mo, py), m gouge formation	tr	53132	834	837	3	0.6	nd	
837	838			- garnet/diop skarn								

838			END OF HOLE

OREQUEST CONSULTANTS LTD. — DIAMOND DRILL LOGS — Hole No. TW-88-09

Exploration Co., Owner or Optionee	Map Ref. No.	Claim Number	Bearing from	Dip of hole		Logged By	Other Information
RICHMARK RESOURCES LTD	NTS 103P/SE	TIDE	True North	at: Collar	-88.5		jks 300
	(Location: Tie-on Coords. or Lat. & Long.)		60	a.			bq
Property Name	55 , 8'N; 129 , 4'W		Collar Elevation				
TIDEWATER			508	a.			
	Date Hole Started	Date Completed				Date Logged	
Drilling Company			Hole Depth	122 a.		June 7, 1988	
ROGERS DRILLING	June 5, 1988	June 7, 1988	122		-87		

Meterage From	Meterage To	ROCK TYPE	ALT	FOL TO CORE AXIS	DESCRIPTION (Colour, grain size, texture, minerals, alteration, etc.)	% Sulphide	Sample No.	Sample (m.) From	Sample (m.) To	ASSAYS Sample Length (m.)	Ag ppm	Au ppb	Ag opt	Au opt
0	6				CASING/OVERBURDEN									
6	22				- sediments greywke, siltst, argillite, m tuff purple, hornfelsed									
9	11		hem	45	- 10 - 1.8 cm qtz v tr mo; tr py									
					- 10 - 11 - microbreccia/replaced section; 1-3 mm angular sed frag's/remnants; alt'd (rel soft) white matrix; non calcareous	tr	53133	9	11	2	0.3	nd		
22	39.5			45	TW stock contact at 45 to c.a., QFP w/fspar pheno's ghost-like, white, 1-2 mm matics 2%, f. gr; w/ m chloritization									
24	26		hem ser	30	- 24.3 - 0.8 cm of qtz stringers w/assoc hem & seri; tr py; mo assoc w/ qtz & argillaceous h.l.f.s./ss									
				70	- 25 - 0.8 cm qtz stringers (as above); m rubble w/frac's, m slix at variety of angles	tr	53134	24	26	2	2.4	nd		
32.5			ser arg		- m rubble in core box w/ sericitized frac surfaces & tr py; fspar pheno's w/ m kaolinization									
				18	- pair of ser, kaol slix w/ 1% py/1 cm	tr	53135	32.5	34.5	2	0.4	nd		
36.5	39.5		hem chl ser		- fractured, chloritized (mod) & sericitized (moderate) section w/ 5% qtz stringers; m slix or some surfaces	tr	53136	36.5	39.5	3	6.9	60		
					- 37.8 - 3.5 cm qtz v/mass									
					- 38 - 10 cm qtz dior dykelet, f-med gr, w/ py, sphal frac fillings and diss									
					- 39 - 10 cm inclusion sediment assoc w/ mo smeared slip surfaces									
39.5	47				- sediments (as above); sist, argillite w/ purple-brown hornfelsing (i.e. f.gr. hydrothermal biotite)									
					- upper contact 80 to c.a.									
					- lower contact to 80 to c.a.									
					- occ qtz stringers throughout									
47	49		arg ser	70	- 48 - 2cm qtz v w/ tr mo									
					- 48.7 - 1 cm qtz as stringers; gry-blk; tr py, sphal; arg, ser assoc w/ h.l.f.s.; slip surf, qtz	tr	53137	47	49	2	0.2	nd		
49.5	52.5		arg		- m rubble in core box w/ some sed inclusions; frac's, qtz str, m									

		ser		slip surfaces loc alt'n & tr sulphide	tr	53138	49.5	52.5	3	0.5	nd		
			75	- 10 cm qtz v, tr ap at 49.8									
54	57.5			- sediments (as above)									
				- 60 to c.a. (upper contact)									
				- 55.5 - 10 cm apophysis/dykelet of TW stock									
57.5	68.5			- TW stock (as above)									
60	62	arg	80	- 60.5 - tetrahedrite, ap stringer (0.3 mm)									
		ser	40	- 61 - 0.8 cm qtz v	tr	53139	60	62	2	0.4	nd		
62	65	arg	50	- 63 - 0.8 cm qtz-carb v w/ 1-2% py, po, sphal, w/ subparallel									
		ser		stringers total qtz approx 1.5 cm; occ h.l.f.s. w/ argillic,									
				sericitic alt'n	tr	53140	62	65	3	0.8	5		
65	68	chl	80	- 65.3 - fracture w/ chl, ser, tr ap; ser for 1 cm on either side									
		ser		of frac									
			75	- 65.7 - 3.5 argillaceous, silicified shear; competent qtz									
				content 30%; tetrahedrite as f.g. coatings of s surfaces (loc 5%/1									
				cm); occ qtz stringers; tr py, ap	tr	53141	65	68	3	0.3	20		
68.5	86.5			- seds (as above)									
				- 71 - 72.7 rubble in core box; frac/flt surfaces w/ cal,									
				argillaceous material; w/in argillite									
			80	- lower contact w/ TW stock									
76	78	chl		- 13 cm band of silicified & chloritized seds/tuff?;	tr	53142	76	78	2	0.3	20		
		ser		chloritization assoc w/ some dep law & h.l.f.s.; po conc to 3 mm									
		sil		diss in centre of band; approx 5%/3 cm									
				- seds argillite, siltst									
			75	- 87.5 - 10 cm band of silicified, chl, ser, seds/tuff									
90	93		75	- contact w/ TW stock (as above) QFP; dyke or apophyses intruding									
				seds									
			40	- chl, arg, ser shear across 3 cm in centre of sample; ~ 1 cm qtz									
				w/in shear w/ tr py, occ ss w/ similar alt'n throughout	tr	53143	90	93	3	0.7	20		
93	96	chl		- 93 - 3 cm qtz-chl-ser v/shear w/ tr py; mostly frac/shear									
		ser		rubble in core box w/ carb/chl frac/shear coatings; m qtz									
		sil		stockwk, qtz veins; m patchy sil	tr	53144	93	96	3	0.5	30		
96	98	chl	10	- 97 - m flt w/ cal slix, m chl, seds; tr py	tr	53145	96	98	2	0.4	80		
		ser											
98.5	105.5			- TW stock (as above)									
				- 45 to c.a. contact									
99	102		10	- 101 - 2.0 cm qtz v/mass; arg, ser alt'n; assoc w/ qtz for		53146	99	102	3	0.4	nd		
				entire sample length									
105.5	107			- sediments, siltstone; patchy silicification assoc w/frac's; m									
				brx at contacts									

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					:- upper contact 60 to c.a.											
					:- lower contact 50 c.a.											
107	108				:- apophyses of TW stock											
118	120			45	:- 120 - 1 cm qtz-carb vi slightly brx'd; adjacent chloritization & sil (over 70 cm) assoc w/ vi 1% tetrahedrite as selvage; tr pyi & tetrahed frac fillings/stringers adjacent to vein	tr		53147	118	120	2	0.6	20		
121	123			65	:- 121.8 - 1 cm qtz-carb v (m carb) sheared w/ m brecciation; local sil (cm's); tr pyi 1% tetrahedrite as selvage	tr		53148	121	123	2	1.3	5		
													1.2	140		
124	126			80	:- 125 - 1 cm qtz replacement? vi local sil, chl, ser; gry-blk tr 1% tetrahedrite as selvage	tr		53149	124	126	2	1.2	20		
126	128				:- 126.2 - 1 cm qtz-carb-chl v w/ tr py, sphal											
					:- 126.6- 127.2 chl & sil section w/ blebs of sulphide (py, po, 2mm) & alt'n diss throughout			53150	126	128	2	0.9	180		
126	356				:- seds (siltst;argill)											
					:- 134 - occ patches (10 cm) of sil, chl, ser, assoc w/ h.l.f.s.											
135	137			80	:- 135.3 - 1.2 cm qtz vi sheeted/m shearing w/ tr py, po, tetrahedrite?, mo											
				75	:- 136 - 0.8 cm qtz vi tr mo			53151	135	137	2	3.3	45		
142	144				:- 143 - 4 cm band of sil, ser, chl seds w/ 3 cm brecciated & replaced seds on either side (brx frag's small (mm's), angular, partly resorbed); alteration banded			53152	142	144	2	0.2	nd		
148	150	sil ser		77	:- 148.8 - 4 cm qtz v/brx; sheared w/ approx 5 surfaces w/in veini suphides 4% in v (py, po, sphal, tetrahedrite?, ruby Ag (pyrargerite, argentite, etc having a ruby red cast assoc w/ metallic tetrahedrite, tr 1%); sulphides as elongate f.g. in masses (to 3 cm x 1 cm) parallel to slip planes		0.01	53153	148	150	2	>100	425	20.46	0.013
				20	:- 149.6 - 0.8 cm qtz v w/ tetrhedrite salvage (2%) & diss py & ser											
					:- 151.5 - 30 cm sil, chl, ser band (garnet-diopside skarn)											
					:- 165.5 - 166.2 band of sil, chl, & sericitized seds w/ tr sulphide											
				75	:- 170 - 4 cm qtz v w/ tr mo, siderite											
					:- 173.5 - 20 cm band of sil, chl, ser seds											
174	177	sil arg chl ser		45	:- 175 - 3 cm shear/flt w/ local brx & gouge formation & qtz-carbonate veining											
				5	:- 175.3 - 20 cm qtz v (therfore low angles) w/ mo tr py											
				60	:- 175.9 - 0.8 cm qtz v w/ tr tetrahedrite as salvage; this vein truncates low angle mo v											
					:- sil, chl continues to 176.7			53154	174	177	3	1.6	30		
					:- 183 - flt/frac rubble begins											
188	191	chl arg			:- flt/frac rubble in core box											
					:- 45 to c.a.; surf smeared w/ mo, chl, kaolinite; h.l. stringers											

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		ser		(silicified) throughout; m brx; sulphides (tr) assoc w/ frac's,										
		sil		stringers or brx matrix	tr	53155	188	191	3	3.1	10			
191	194	chl		- 191.5 - 15 cm qtz v/ m brx w/ 1% mo; tr py (in core rubble);										
		arg		flt/ frac rubble in core box; chloritized slip surfaces										
				throughout; qtz content as stringers ~1%	tr	53156	191	194	3	5.4	660	0.167	0.021	
194	197	chl		- rubble in core box w/ m brx; qtz & carb stringers & patchy chl										
		arg		& arg alt'n ss ~ 1/10 cm w/ cal; chl slix		53157	194	197	3	6.7	330	0.208	0.01	
			75	- 199.5 - 1 cm qtz vi tr mo; py										
202	205	chl	70	- 202.3 sheared/qtz v w/ stringers over 12 cm (40% qtz); tr mo;										
		ser		chl										
			50	- 203.2 - 1-2 cm qtz v w/ tr ser, chl; mo; m brx in remainder of										
				sample; tr py; m tetrahedrite?; mo h.l.f. filling		53158	202	205	3	0.5	10			
				- 208 - 2.0 cm band of chl; ser & sil										
			75	- 221.5 - 1-2 cm qtz vi tr mo; py										
			75	- 224 - m fracturing; qtz; cal stringers										
226	229	chl	80	- 226.2 - 0.5 cm qtz str; tr sulphide w/in 4 cm shear band										
		ser		(chloritized, silicified)										
		sil	85	- 227.2 - 1 cm qtz/mo v (1% mo) w/in 20 cm alt'n band(chl, ser,										
				sil); m qtz stringers										
		chl	70	- 227.5 - 2 qtz-chl veinlets, 6 cm apart; tr 1% py; mo; m assoc										
		ser		sil	tr	53159	226	229	3	0.2	nd			
		sil	60	- 228 - 0.8 cm qtz vi tr mo										
			75	- 228.3 - 3 cm chl, sil shear band										
230	233	chl		- mod frac'd & alt'd section w/ qtz str/h.l.f. fillings (5% qtz										
		ser		overall); variety of attitudes; chl, ser, sil; tr mo; py	tr	53160	230	233	3	0.4	150			
		sil												
			80	- 237 - 1 cm qtz vi tr 1% mo; py in grywkes										
			75	- 240.3 - 1 cm qtz v										
			75	- 240.7 - 1 cm qtz v, 1-2% mo; py; ser										
244	247	chl	85	- 244.7 - 2.5 cm shear, argillized chloritized & sil (stringers),										
		sil	55	occ qtz stringers										
		arg	0	- 246.8 - 0.8 cm qtz v w/ chl, ser alt'n		53161	244	247	3	3.5	85			
				- 250 - 2.0 cm shear rubble; 20 - 45 to c.a. andesite dyke w/ 1										
250	252		45	mm calcite blebs diss throughout (3%)										
				- lower contact at 45 to core										
253	256	arg	45	- 253.7 - 1 mm to 1 cm sheeted qtz stringers w/ 1 x 2 cm mass of										
		chl		f.g. py (10%/1 cm) m/in 30 cm alt'd section (arg, chl, ser)		53162	253	256	3	0.5	5			
		ser	15	- 254.2 - 0.4 cm qtz vi tr sulphides										
258	261	chl		- 258.4 - 10 cm QFP dykelet (arg, chl, ser) w/ 2 qtz stringers										
		ser	45	(0.5-0.8 cm, conjugate) at upper contact; lower contact dykelet 80										
		arg		- 90 to c.a.										
			15	- 260.5 - 0.7 cm qtz v w/ 2% mo, ser	tr	53163	258	261	3	0.1	nd			

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			75	- 265.5 - 1 cm qtz v									
			50	- 266.5 - 25 cm patch chl, ser alt'n; controlled by bdg? (grywke)									
271	272			- m frac rubble in core box; alt'd w/ qtz stringers (2%)									
			75	- 275 - 3 cm qtz v									
			75	- 277.8 - 3 cm qtz v w/ 30% chl shear surfaces									
			70	- 286.5 - 0.7 cm qtz v w/ 2 cm chl, ser alt'n in h.l.l.s									
			55	- 287.6 - 4 cm qtz vi tr chl, ser									
293	296	chl		- 294 - 295.5 - rubble in conc box w/ many chl, argillized ss									
		arg											
		ser	80	- 295.5 - 5 cm qtz brxi frag's less; subangular to angular; chl,									
		sil		ser, sil; tr py	tr	53164	293	296	3	0.3	nd		
296	302			- frac pieces in core box (~10 cm) w/ cal stringers, occ chl/arg									
				ss; occ patches chloritic & sericitic alt'n									
302	305	arg		- frac/flt rubble in conc brxi 1% qtz content; w/in alt'd grywke		53165	302	305	3	0.3	25		
		chl											
				- 306 - 306.7 andesite dyke; low contact at 50 to c.a.									
				- 307 - m brx over 10 cm; healed w/ qtz-carb; unmin; rel unalt'd									
308	311	hem	80	- 308.5 - 3.5 cm qtz vi tr sulphides; alt'n bands for 1 cm or									
		chl		either side									
		ser	85	- 308.8 - 1 cm qtz vi tr py									
		sil		- 310 m frac rubble									
			75	- 310.7 - 0.6 cm qtz v w/in m shear	tr	53166	308	311	3	0.6	10		
316	318	chl		- network of low angle (10) & moderate angle (30-45) qtz									
		ser		stringers & veinlets; 1-8 mm; qtz approx 20% of core									
		arg	75	- 317.7 - 1 cm qtz vi tr mo, py	tr	53167	316	318	2	0.1	10		
323	325			- QFP dyke; m arg, chl, alt'n									
327.7	329.7	chl		- 328.2 - 2 cm shear/QFP dykelet w/ 5% tetrhydite, py w/ apple									
		ser		green (cr-mica, or chl) alt'n product	tr	53168	327.7	329.7	2	1.5	10		
329.7	331.7	chl		- tuffaceous section w/in sedst; lt malachite green colour; soft									
		arg	85	- 330.2 - 3 cm qtz v/brxi; tr py									
			60	- 331.1 - 0.7 cm qtz vi tr mo	tr	53169	329.7	331.7	2	1.4	nd		
			70	- 332.5 - 2 cm qtz vi tr mo, py									
332.5	333.5	arg		- rel crse grywke (qtz frag's to 0.8 cm; subangular),									
		chl		kaolinized, chloritized w/ tuffaceous (lt mal grn material)									
337	340	arg	80	- 337.2 - 1 cm qtz v									
		chl		- network, m stock wk of qtz stringers, veinlets throughout w/in									
				med to crse grywke (1 mm qtz/ 5 cm)									
				- 338 - 0.7 - 1.0 cm qtz v w/ 2% drusy porosity (to 5 mm);									
				section unmineralized		53170	337	340	3	1.1	nd		
				- 346 - 1 cm qtz vi tr mo, py w/in 3 cm band chl, sil, m									

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				hematized rock									
352.5	353.5	arg		- band lt green tuffaceous sedi plag xtal tuff; v sotti bentonitic; plag xtals kaolinized									
356	376			- andesitic plag crystal, fragmental tuff; lt mal green; bentonitic; plag frag's 1 mm - 8 mm; 359									
357	359		77	- 358 - 15 cm sil section w/in tuff; tr py	tr	53171	357	359	2	4.2	nd		
362	365		70	- 362.7 - 1 cm qtz v/brx; 5% tetrahedritie/1 cm									
				- 364 - 10 cm qtz v/mass; sheared w/5% mo; py									
				- sheared & brx tuff continues to 365'	tr	53172	362	365	3	1.6	nd		
369	372	chl		- sheared & silicified section of tuff									
		arg		- 369.6 m brx section (mm's) w/ tr 2% tetrhed									
				- 370.5 - 371.5 sheared; frac'd & sil section w/ 3-5% py;									
				tetrahedrite/3D cm assoc w/ h.l.i.s. & s planes	0.01	53173	369	372	3	3.3	nd		
372	375	chl		- sheared & sil section									
		arg	75	- 374 - 1 cm qtz v q/ 2% tetrhed; py as salvage & diss									
				- 373.5 - 374.5 diss'd; brx section w/ 10% qtz as str; veins; or									
				brecciated masses	tr	53174	372	375	3	3.5	nd		
376	379	chl	60	- upper contact of facies changes to silicified med gr lapilli									
		arg		tuff; m shearing; tetrahedrite; no stringer; dep 1 cm at 60 to									
				c.a.	tr	53175	376	379	3	1.0	nd		
380	383	chl		- 380.5 - 381.5 sheared; sil section w/in lapilli tuff (as									
		ser		above); m mod cataclastic texture; f-med gr	tr	53176	380	382	2	2.3		5	
386	389	chl	65	- 386.3 - 1 cm qtz vi sheared; chloritized w/ argillaceous									
		sil		undulating s planes	tr	53177	386	389	3	0.4	nd		
				- 388.3 m brx/shear over 10 cm; chl, sil;w 1-2% py w/ qtz h.l.i.									
				fillings/str & veinlets									
			60	- 391 - m flt gouge (chl slip surfaces over 1 cm)									
392	395	arg	80	- 392 - 0.8 cm qtz vi 1% mo; tetrhed; py									
		chl	30	- 394.5 - 10 cm flt gouge/brx; unconsolidated; 1% qtz; py	tr	53178	392	395	3	2.5	nd		
395	398	arg	45	- 395.5 - 2 cm qtz v/brx w/ flt gouge									
		chl		- 396 - 10 cm qtz v/mass/brx w/ 5% py; tetrahedrite/mo as diss &									
		ser		salvage									
			45	- 396.5 - m shear/brx (opp direction to 395.5)	tr	53179	395	398	3	1.5	nd		
398	400			- grywke - m tuff component									
400				END OF HOLE									

OREQUEST CONSULTANTS LTD. — DIAMOND DRILL LOGS — Hole No. TW-88-10

Exploration Co., Owner or Optionee	Map Ref. No.	Claim Number	Bearing from	Dip of hole	Logged By	Other Information
	NTS 103P/SE	TIDE	True North	at: Collar 88		
RICHMARK RESOURSES LTD	Location (Twp., Lot, Con. or Lat. & Long.)		305		E. McCrossan	JKS 300
Property Name	55 , 8'N; 12S , 6'W		Collar Elevation			80
TIDEWATER	Date Hole Started	Date Completed	512		Date Logged	
Drilling Company			Hole Depth	151.8 m	JUNE 10,	
ROGERS DRILLING	JUNE 8, 1988	JUNE 10, 1988	151.8			

Meterage From	Meterage To	ROCK TYPE	ALT	FOL TO CORE AXIS	DESCRIPTION (Colour, grain size, texture, minerals, alteration, etc.)	% Sulphide	Sample No.	Sample (m) From	Sample (m) To	ASSAYS Sample Length (m.)	Ag ppm	Au ppb	Ag Opt	Au Opt
0	6				CASING									
6	33				- TW stock; granite/qtz monzonite gd gr; equigranular to porphyritic									
					- occ hematized frac's w/ manganese oxide stain for 18'; m qtz v;									
					m sericitization									
12	15		mn		- mod frac'd section w/ local to pervasive hem; mn oxidation;									
			hem		frac's at 0 to c.a.									
			ser	30	- 12.5 - 0.8 cm qtz v w/ 1% mo, tr py, tr ser	tr	53180	12	15	3	2.4	20		
16	19		sil	15	- 17 - 1.5 cm qtz v w/ assoc ser over 10 cm; py, po, mo, sphal									
			ser		(loc 5%/10cm)	tr	53181	16	19	3	5.5	75		
			chl											
19	22		hem	15	- 19.3 - 1.2 cm qtz v w/ mo; py, ser; hem spotty to pervasive									
			ser		assoc w/ frac's; py, po, mo; chl matics diss throughout (tr)	tr	53182	19	22	3	14.5	40		
			chl											
26	29		arg	75	- 26.2 - 4.0 cm qtz v; banded w/ sphal & mo on separate									
			ser		surfaces; also py; sulphides 2%/4 cm									
				75	- 28.6 - 1.4 cm qtz v w/ po (2%); tr mo; assoc sil & ser for 15									
					cm above	tr	53183	26	29	3	12.8	15		
				20	- 33 - 1 cm qtz v; tr mo									
33	35				- and/dac dyke; aphani grn-gry; flow bands ~ 10 to c.a.;									
					siliceous; bifurcates around 30 cm frag of TW stock									
				50	- 37 - 1 cm qtz v									
38	39		chl		- rubble in core box; TW stock & matic dyke frag's; tr 1% py	tr	53184	38	39		0.9	50		
			ser											
39	44				- missing core representing FH/frac? open space porosity									
44	47.5				- lamprophyric dyke (dk grn-blk); matic pheno's (1 mm; 5%) w/in									
					aphan groundmass									
47	50		arg		- 47 to 48.5 flt/frac rubble in core box; includes dyke & TW									
			chl		stock material; arg & chl slip surfaces; 5% qtz content; tr									
			ser		sulphide									
				50	- 48.5 - 2 cm qtz v; sheared w/ tr py, ser, arg	tr	53185	47	50		1.6	10		
50	53		ser	30	- 50.3 - 1 cm qtz v w/ 1 % mo; tr py, ser, arg									
				70	- 51 - 1 cm qtz v (as above); m h.l.t.s. w matic coatings & tr									
					py, po	tr	53186	50	53		2.7	40		

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54	57	arg ser	45	- 56.5 - 5 cm qtz v w/ tr mo, py, po; assoc alt'n for entire sample interval	tr	53187	54	57	3	10.9	75		
57	60	arg ser		- 58 - 60 qtz v/brx, 70 % qtz w/ 2% suphide (py, po, mo, gal, sphal, tetrahedrite); alt'n patchy to pervasive	0.01	53188	57	60	3	100	590	8.83	0.018
60	62	arg ser		- qtz v/brx continues; min, alt'n as above - 61 - 62 rubble in core box; 80% qtz	0.01	53189	60	62	2	79.5	170		
62	64			- sediments; md st, gry									
				- 63 - 10 cm TW stock dykelet w/ chl, ser									
64	67	arg ser		- TW stock w/ qtz stockwk/brx; tr 1% py, po, 5% mo, arg, ser, a argillaceous material as breccia matrix	0.01	53190	64	67	3	10.2	30		
67	70			- sediments, siltst; silicified, chl, ser w/ a brx; qtz netwk from 67 - 69; tr py, po	tr	53191	67	70	3	1.7	20		
70	73	arg ch	75	- 70 - 8 cm qtz monz dykelet w/ in seds									
				- 71-72 rubble in core box w/ mo smeared on slip surfaces									
				- 72-73 sed brx, heated w/ qtz; sulphides 1% as brx frac fillings	tr	53192	70	73	3	n/a	n/a		
73	75			- and porph dyke med green; plag pheno's (1 mm, 5%)									
75	261			- TW stock									
76	79	arg		- 76 - 77 rubble in core box w/ argillaceous kaolinized frag/slip surfaces									
			45	- 77 - 1 cm carb v adj to 1 cm grey qtz vi argillaceous ss on either side of veins; tr py in qtz; occ ser/argillaceous slip surface throughout	tr	53193	76	79	3	2.7	15		
82	84	ser	50	- 83 - 1 cm qtz v w/ 1 cm conc of py/ sphal (1%); occ py, ser ss; also tetrhedrite as h.l.f. fillings; a brx	tr	53194	82	84	2	6.5	85		
84	87			- a brx TW stock w/ patches of f.g. matic differentiate?; py, po, sphal, arsenopyrite (1%) assoc w/ h.l.f.s & matic patches									
			50	- 86 - 1 cm qtz v w/1% py, po, mo, sphal w/ in & adj to v	tr	53195	84	87	3	52.4	350	1.62	0.011
87	89	ser		- matic patches (as above) w/ med gr py frac fill (subhed, 3 mm) locally 3%/5 cm									
			30	- 87.5 f.g. tetrahedrite on frac/slip surf py, mo, ser assoc w frac/ss throughout	tr	53196	87	89	2	26.3	360	0.815	0.011
89	92	arg ser		- 90 - 92 flt brx, rubble in core box w/ tr py, mo; argillaceous matrix in brx	tr	53197	89	92	3	6.8	75		
92	94	arg ser		- previous brx continues for 10 cm; occ ss w/ graphite, mo/ser; diss blebs py, po, mo throughout	tr	53198	92	94	2	12.4	140		
95	98		30	- 96.5 a flt w/ 5 mm gouge fol ser, argillization, sulphidation (mo, py, sphal 3%) on either side of flt for 30 cm	tr	53199	95	98	3	15.8	160		
99	102	arg ser		- 99 - 100 frac rubble in core box - 99.3 - 5% diss sphal, py, mo assoc w/ argill, ser section of TW									

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				stock (over 15 cm)								
			20	- 101 - 1 cm qtz v	tr	53200	99	102	3	18.6	25	
102	105	arg	80	- 103 - 6 cm qtz v w/ py, po, mo, sphal (sulphide 2%); m arg, ser								
		ser		alt'n; tr py, sphal as fig to patchy (1 cm) diss throughout	tr	53201	102	105	3	9.0	15	
113	116	ser	40	- 113.5 - 1-2 cm indistinct qtz v (i.e. wallrk sil/assimilation)								
				w/ musc/ser; tr py, mo	tr	53202	113	116	3	1.2	nd	
				- mafic content increase in TW stock; f-med grained, 10%, m chl								
				of mafic grains								
				- sphal rel abdt (1%/10cm) assoc w/ chl h.l.f.s. (subhed, to 2 mm)								
			80	- 119.5 - 1 cm qtz v w/ mo, sphal; tr 1%								
122	124	ser	35	- 123 - 1.5 cm qtz vi 1% mo, py	tr	53203	122	124	2	1.3	20	
125	128		70	- 126 - 2.0 cm qtz v/massi 1% py, mo, tr sphal	tr	53204	125	128	3	2.9	nd	
131	134		20	- 132 - 1.3 cm qtz v w/ mo & py; truncated at 80 to c.a. by mo								
				coated ssi py, po, mo (tr) assoc w/ qtz, ss, & h.l.f.s.	tr	53205	131	134	3	4.8	30	
134	136	ser		- 134 - 10 cm shear/alt'd zone w/ f gr diss py to 5%; mo on ss	tr	53206	134	136	2	2.3	130	
				- 135 - 5 cm qtz v/brxi 1% mo, ser								
136	139	arg	15	- 136.5 - 10 cm qtz v w/ mo, py (tr) trunc by 0.6 cm qtz v								
		ser		(sphal, py, mo (1%) at 80 to c.a.); occ qtz veinlets throughout								
				w/ tr 1% py, mo	tr	53207	136	139	3	4.9	5	
141	144	ser	45	- 143.2 - 15 cm qtz vi tr mo, py	tr	53208	141	144	3	0.9	nd	
		ser	30	- 146 - 1 cm qtz v, 1% py, mo								
		arg	30	- 149 - 1 cm qtz v								
			30	- 150 - 1 cm qtz vi tr mo								
			15	- 157 - 2 cm qtzi tr mo, py								
160	162			- sed inclusion; hornfelsed argill; chl								
165	167	arg	45	- m flt/brx in TW stock; tr 1% mo, py, tetrahedrite? on frac & SS	tr	53209	165	167	2	1.1	nd	
		ser										
175	177	arg	45	- flt/frac rubble over 30 cm; tr mo, py	tr	53210	175	177	2	0.4	nd	
		ser										
183	185	arg		- as in 53210	tr	53211	183	185	2	0.4	nd	
188	191	arg		- flt/frac rubble; 5% qtz content; tr mo, py	tr	53212	188	191	3	0.9	nd	
		ser										
199	201		70	- 200 - 2 cm qtz v w/ 1% py, mo at contacts								
215	218	ser	75	- 215.5 - 2 cm qtz v w/ tr 1% py, mo assoc w/ h.l.f.s								
251	254	arg		- qtz veinlets, stringers, h.l.f.s. filled w/ mo, py; qtz ~ 10%								
		ser		(qtz network)	tr	53213	251	254	3	12.1	335	
										23.4	45	
254	257	arg		- flt/frac brx rubble in core box; tr 1% py, mo as h.l.f.filling;								
		ser		ss coatings & brx matrix fill	tr	53214	254	257	3	2.7	190	
257	261	arg		- flt/frac brx rubble; mnz intensive brecciation; therefore								
		ser		approaching contact w/ seds	tr	53215	257	261	4	0.3	10	

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					:- 20 cm gouge fm at 261 represents major fault; tr py, mo throughout; qtz approx 5%								
261	264				:- 261 - TW stock/seds contact (flt); hornfelsed & med frac'd seds; tr py, mo w/ occ qtz str/ veinlets	tr	53216	261	264	3	0.3	nd
264	267	sil			:- frac'd & brx seds, silicified w/ qtz & carb brx matrix; tr mo, py	tr	53217	264	267	3	1.7	20
267	272				:- sed's, hornfelsed w/ occ qtz v								
272	275	arg			:- 272 - 273 TW stock								
					:- 273 - 275 flt/frac rubble in seds; qtz 2%, tr, py, mo	tr	53218	272	275	3	0.3	nd
275	276				:- flt/frac rubble in seds (as above)								
					:- qtz content 3%; mo, py, w/ qtz & assoc w/ frac's, ss	tr	53219	275	278	3	1.5	35
278	281				:- flt/frac'd/brecc'd seds (as above)	tr	53220	278	281	3	0.8	5
					:- 279-280 andesite porphyry dyke								
281	284				:- flt/frac rubble (as above)								
					:- includes TW stock material, silicified w/ approx 30% qtz & 1/2% sulphide (py, mo)	0.01	53221	281	284	3	1.0	nd
284	287				:- flt/frac rubble (as above)								
					:- chill margin dyke contact at 285 (lower contact)								
					:- 285 - seds w/ m brxi qtz, carb str	tr	53222	284	287	3	2.0	nd
287	290				:- flt/frac rubble in seds (as above)	tr	53223	287	290	3	1.0	nd
290	293.5				:- andesite porph dyke								
293.5	296.5				:- flt/frac rubble w/ brx frag's over 30 cm (sed & dyke material); argillaceous brx matrix w/ 2% py	tr	53224	293.5	296.5	3	4.4	nd
296.5	298.5				:- flt/frac rubble in seds (as above)	tr	53225	296.5	298.5	2	0.6	nd
298.5	300.5				:- flt/frac rubble in seds (as above); m qtz, m brx fm	tr	53226	298.5	300.5	2	1.0	nd
300.5	302.5				:- flt/frac rubble in and porph	tr	53227	300.5	302.5	2	1.0	nd
											4.1	25
302.5	305.5	chl ser		10	:- 304 - 2 cm qtz v - 1% mo, tr py :- 304 - 10 cm flt gouge (above qtz v), remainder sample is flt/frac rubble in seds; qtz content 10%	tr	53228	302.5	305.5	3		
305.5	308.5				:- flt/frac rubble in seds (as above0	tr	53229	305.5	308.5	3	1.8	nd
308.5	311.5	chl ser			:- 308.5 - 309.5 flt/frac rubble; including 1 cm flt gouges :- 309.5 - 311.5 frac rubble in seds; m qtz, carb netwk fai m brxi								
					:tr 1% py, mo, sphal	tr	53230	308.5	311.5	3	4.7	10
313	315			30	:- 314 - 4 cm qtz v w/ sheets mo, py 1 cm apart	tr	53231	313	315	2	4.9	10

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315	328			- seds w/in frac rubble; occ qtz veinlets/str; purple hornfelsed; occ patch chl; ser										
328	330			- TW stock; med gr apophysis; upper contact at 50 to c.a.; lower contact at 55 to c.a.										
330	409			- sed's (as above); occ qtz str/veinlet w/ tr py; mo										
				- 332 - 20 cm dykelet TW stock										
				- 343 - 20 cm dykelet TW stock; 1% mo on ssi; tr ser alt'n; w/in argill; sltst seds										
				- 348 - 15 cm TW stock dykelet										
349	351	chl	40	- 350 - 12 cm qtz v w/ 1% mo; tr py; truncated by mass; also 10% qtz as veinlets (in stockwk) in remainder of sample	tr	53232	349	351	2	0.4	nd			
352	355	chl	50	- 352.2 - 3 cm qtz v w/ tr 1% py; mo	tr	53233	352	355	3	1.1	5			
				- 354-355 rubble in core box; 5% qtz tr sulphide; chl & arg SS										
355	357	arg		- rubble in core box; fit/frac (as above) w/in seds	tr	53234	355	357	2	1.5	20			
357	360	arg	45	- 357.2 - 359 flt brx w/ 20% qtz; argillaceous material as brx	tr	53235	357	360	3	1.3	30			
		chl		matrix & on SS; a gouge fm										
		ser												
360	363		55	- 361 - 362 and dyke; chloritized, sericitized, silicified w/ qtz str at 0 to c.a.										
			45	- 362.5 flt gouge over 3 cm										
				- 362.5 - 363 alt'd and/porph dykes (kaolinized); lower contact 50 to c.a. adj to 20 cm chloritized shear zone (next sample)	tr	53236	360	363	3	1.1	30			
363	365	chl		- 363 - 10 cm shear; chl w/ argill material flt/frac rubble	tr	53237	363	365	2	2.3	530	0.071	0.016	
		arg		- 364.7 - 10 cm TW stock dykelet irreg contact following fine frac's in sed's and partial assimilation of seds										
365	368	chl		- 365.5 - 30 cm and dyke of 5% f.g. mafic pheno's	tr	53238	365	368	3	0.9	10			
			50	- upper contact 50 to c.a. adj to chl shear over 4 cm										
		chl	50	- remainder of sample is flt/frac rubble or breccia; qtz 5%; argill mat in brx &/or SS										
		ser												
		sil		- lower flt contact at 50 to c.a.										
368	371	chl	50	- 368 - 369 chl, ser flt brx; tr py; po	tr	53239	368	371	3	1.3	nd			
		ser												
372	378		45	- and porph dyke; 1% plag pheno's to 2 mm; dk grn										
378	381	chl		- 378.5 - 3 cm qtz v w/ tr 1% py; mo; sphal										
		arg		- remainder of sample is moderately frac'd & alt'd (arg; chl) seds	tr	53240	378	381	3	1.2	130			
		ser												
383.5	386.5		45	- 384 - 12 cm qtz vi chl; tr mo; py frac rubble in sed's for remainder of sample	tr	53241	383.5	386.5	3	10.3	30			
386.5	389.5	arg		- alt'd; frac'd seds w/ 5% qtz veinlets; chl w/ tr py; a brecciation of seds	tr	53242	386.5	389.5	3	28.3	245			
		chl												
389.5	392.5	chl		- flt related qtz breccia at 45 to c.a.; chloritized frac's qtz;										

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				qtz approx 50% of sample, no app sulphides	tr	53243	389.5	392.5	3	1.4	nd	
										0.6	nd	
392.5	394.5	chl		- flt related qtz brx (as above)	tr	53244	392.5	394.5	2			
		epi										
407	410		20	- andesite porph (as above)								
				- flt/brx contact w/ QFP TW stock over 30 cm (at 407)	tr	53245	407	410	3	3.7	nd	
				- argillaceous matrix & SS; rel unmineralized								
409	429			TW stock QFP; massive w/ m chl ss w/ mo coatings								
422	425	ser	5	- 423 - 1 cm qtz v w/ 1% mo; tr py	tr	53246	422	425	3	0.6	nd	
429	438		55	- andesite porph (as above)								
				- lower contact also 55 to c.a. w/ 4 cm flt gouge								
438	442.5			- TW stock; QFP (as above)								
442.5	466			- andesite porph dyke (as above)								
466	469.5			- TW stock; QFP (as above)								
469.5	472			- and/porph (as above)								
472	475	chl		- 472 - 473.3 qtz-chlorite brx; 5 cm argillaceous material in								
		arg		matrix, remainder of sample is andesite frac rubble	tr	53247	472	475	3	0.6	nd	
474	476.5			-and/porph dyke (as above)								
476	479			- qtz & QFP breccia; healed predom w/ qtz w/ m argillaceous								
				material		53248	474	476.5	2	0.6	nd	
479	482			- qtz & QFP brx (as above)		53249	479	482	3	0.6	nd	
				- 479-480 main brx (1 mm - 3 cm angular frag's w/ argillaceous								
				matrix); remainder sample w/ m brx; rel unmineralized; some vuggy								
				porosity assoc w/ brx (tr 1%) w/ free qtz xtal growth (mm's)								
482	485			- qtz & QFP brx (as above)		53250	482	485	3	0.6	nd	
485	488	chl		- m brx'd QFP	tr	53251	485	488	3	1.1	15	
		ser	45	- 487 - 2.5 cm qtz vn; tr mo; py								
			70	- 487.2 - 1 cm qtz v ; 1% mo; py								
		ser	70	- 487.7 - 1.8 cm qtz v ; 1% mo; py								
				- 488 - 2 intersecting qtz v's (1 cm; 75 & 1.2 cm at 40 to c.a.)								
488	498			- TW stock QFP (as above)								
			55	- 496 - 3.5 cm qtz vn tr mo; py								
				- 496.7 - 1.7 cm qtz v; 1% mo								
498				END OF HOLE								

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Exploration Co., Owner or Optionee	Map Ref. No.	Claim Number	Bearing from	Dip of hole		Logged By	Other Information
	NTS 104P/SE	TIDE	True North	at: Collar	45		
RICHMARK RESOURCES LTD	Location (Twp., Lot, Con. or Lat. & Long.)		34	a.		Ed McCrossan	JKS 300
Property Name	55 , 8'N; 129 , 4'W		Collar Elevation	a.			BQ
TIDEWATER	Date Hole Started	Date Completed	470	a.		Date Logged	
Drilling Company			Hole Depth	a.		JUNE 14, 1988	
ROGERS DRILLING	JUNE 12, 1988	JUNE 14, 1988	81.7	81.7	50		

Meterage From	Meterage To	ROCK TYPE	ALT	FOL TO CORE AXIS	DESCRIPTION (Colour, grain size, texture, minerals, alteration, etc.)	% Sulphide	Sample No.	Sample (m.) From	Sample (m.) To	ASSAYS Sample Length (m.)	Ag ppm	Au ppm
0	16				CASING (OVERBURDEN)							
16	17	hem			- TW stock qtz monz							
17	20	sil			- frac'd & brx'd argillite							
		ser		55	- 17.5 - 17.7 - 2; 1 cm qtz v's w/ 1% mo; py							
					- 19.5 - 10 cm qtz brx w/ argill matrix	tr	53253	17	20	3	2.0	25
20	23	chl			- 20 - 21 brx'd seds							
		arg			- 21 - 23 brx'd TW stock; qtz matrix & veins approx 30%; tr 1%							
				20	py, mo	tr	53254	20	23	3	1.2	5
23	26	arg			- brx'd & qtz veined TW stock; argill matrix in brx							
		chl			- 25.5 - 1.5 cm qtz v	tr	53255	23	26	3	1.3	nd
		ser		25								
30	33	arg			- numerous qtz v's w/in TW stock; sericitization patchy to							
		chl			pervasive; tr 1% py, po assoc w/ qtz & diss & netwk fm							
		ser										
				20	- 32.7 - 2 cm qtz vn tr 1% mo, py	tr	53256	30	33	3	4.9	nd
33	36	arg			- as in 53256	tr	53257	33	36	3	1.0	nd
		chl			- 35.6 - 20 cm qtz brx w/ argill matrix f.g. py locally 50%/1 cm							
		ser			as post-breccia frac fill							
36	39	arg			- as in 53256							
		chl			- 36 - 37 - qtz/brx (as above)	tr	53258	36	39	3	0.6	nd
		ser										
39	42				- as in 53256	tr	53259	39	42	3	16.9	nd
42	55.5				- and/qtz dior dyke							
					- 58 - 59 frac/flt rubble; m gouge; lower contact 55 wrt c.a.							
55.5	58.5	arg			- TW stock w/ numerous qtz vn m brx; m netwk fm and assoc alt'n;							
		chl			qtz content approx 20%; tr py, po, mo assoc w/ qtz; h.l.f.s. &							
		ser			diss	tr	53260	55.5	58.5	3	0.7	nd
58.5	61.5				- as in 53260	tr	53261	58.5	61.5	3	0.6	nd
61.5	64.5				- as in 53260	tr	53262	61.5	64.5	3	0.5	nd
64.5	68				- as in 53260	tr	53263	64.5	68	3.5	0.5	nd
68	71				- as in 53260	tr	53264	68	71	3	0.5	nd
75.5	78.5				- as in 53260	tr	53265	75.5	78.5	3	1.2	30
				55	- mo/graph gouge (5 mm) w/ 10 cm qtz brx in fw							
78.5	61.5				- as in 53260 w/ less qtz (5%) & less intense alt'n	tr	53266	78.5	81.5	3	1.0	nd
81.5	84.5				- as in 53266							

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					- 83.5 - 84.5 siltst inclusion w/in qtz stockwk	tr	53267	81.5	84.5	3	1.2	35		
84.5	87.5				- as in 53266	tr	53268	84.5	87.5	3	1.1	20		
					- 87 - 87.5 siltst									
87	103				- sediments; predom siltst (as above)									
					- 89 - 10 cm qtz-monz dykelet									
					- upper contact 45 to c.a.									
					- lower contact 80 to c.a.									
90	93			75	- 90.5 - 10 cm qtz-sed brx; argillaceous matrix	tr	53269	90	93	3	1.0	20		
				50	- 92.5 - 25 cm QFP dyke									
93	96				- flt/frac rubble in seds w/ qtz veining qtz content approx 5 % w/ tr mo; py	tr	53270	93	96	3	0.5	5		
96	99		ser		- seds w/ qtz-mo veins	tr	53271	96	99	3	0.5	5		
				45	- 96.2 - 4 cm qtz v w/ 1% mo; ser									
				55	- 97 - 5 cm qtz v w/ 1% mo; ser									
				75	- 98 - 3 cm qtz v w/ 2% mo; ser									
103	143.5				- TW stock; qtz-monz (as above)									
103	106		arg		- stock w/ occ qtz v to 5%; tr py; mo	tr	53272	103	106	3	0.2	nd		
			ser											
110	113				- 110.3 - 10 cm qtz/qtz-monz brx healed w/ qtz & argill material; tr py	tr	53273	110	113	3	0.4	5		
				45	- 111 - 20 cm qtz brx (as above) assoc w/ 45 to c.a. ss/m shear									
127.5	130.5		chl		- 128.5 - 129 sed inclusion w/ m qtz str									
			ser		- 129 - 8 cm qtz w/ massi tr mo; py									
					- 129.3 - 130 TW stock qtz monz									
					- 130 - 130.5 seds	tr	53274	127.5	130.5	3	0.4	20		
130	136				- sediments; siltst (as above)									
130	133				- seds w/ qtz stringers (including a ductilely deformed recumbent str) & a netwk containing esp rich stringers (50% py/2 mm 55 to c.a.) for 10 cm at 131.5	tr	53275	130	133	3	0.4	10		
136	143.5				- TW stock; qtz monz (as above); occ sed inclusions									
143.5	264.5				- sediments (as above) occ TW stock dykelets for flt/frac rubble									
143.5	146.5				in core box (seds); includes qtz v/brx sections; approx qtz 10%; tr py; mo	tr	53276	143.5	146.5	3	0.5	nd		
153	156				- flt/frac rubble (seds); 5% qtz	tr	53277	153	156	3	0.1	20		
156	159				- as in 53277	tr	53278	156	159	3	0.1	15		
165	168				- as in 53277	tr	53279	165	168	3	0.1	nd		
170	173				- as in 53277	tr	53280	170	173	3	0.9	60		
174	177				- rel competent seds (argillite; siltst)									
			ser	55	- 174.3 - 1 cm qtz v w/ sheeted mo (5%)									

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		ser	70	- 175 - 16 cm qtz v w/ sheeted mo (3%); tr py in h.l.f.s	tr	53281	174	177	3	0.2	10
183	184			- TW stock, qtz monz apophysis (sp?) or dyke								
184	187		60	- seds & frac rubble w/ 10% qtz as veins; tr mo, py	tr	53282	184	187	3	0.2	nd
187	190			- flt/frac rubble in sedsi 5% qtz	tr	53283	187	190	3	1.4	15
190	193			- a qtz stockwk in sedsi qtz veins at 10 & 65 to c.a.; 1% mo; tr py, po	tr	53284	190	193	3	0.5	10
193	196			- flt/frac rubble in sedsi qtz 10%	tr	53285	193	196	3	0.4	nd
196	199			- flt/frac rubble in seds	tr	53286	196	199	3	0.2	nd
204	207	chl		- flt/frac rubble	tr	53287	204	207	3	0.1	5
		ser	45	- 206 - 15 cm qtz v w/ 1% sheeted mo							
211	214	arg		- flt/frac rubble	tr	53288	211	214	3	0.6	nd
		chl		- 213.5 - 10 cm qtz v							
214	217			- as in 53288	tr	53289	214	217	3	0.4	5
217	220			- as in 53288	tr	53290	217	220	3	0.2	10
220	223	arg	40	- flt/frac rubble ; 20: qtz; a gouge & brx at 222.5	tr	53291	220	223	3	0.3	20
		chl									
223	226	arg		- 223 - 224 flt rubble w/ gouge (45 to c.a.) at 223.5							
		chl									
			45	- 224.5 - 4 cm qtz vi tr mo, py							
			55	- 225.5 qtz monz dykelet (30 cm)	tr	53292	223	226	3	0.1	nd
230	233	arg	45	- 231.5 - 10 cm qtz brx vi sed alt'd for 10 cm on either side							
		chl									
			55	- 232.5 - 2 cm qtz monz dykelet, 1.2 cm qtz v	tr	53293	230	233	3	1.1	nd
233	236	chl	65	- 233.3 - 4 cm qtz v w/ ser (10%)							
		ser	55	- 235.5 - 3 cm qtz monz dykelet w/ lesser qtz veining; remainder of sample is hornfelseed seds w/ h.l.f.s. (alt'd) throughout	tr	53294	233	236	3	0.3	nd
236	239	chl		- 236 - 237 flt/frac rubble, mo smeared ss							
		ser	50	- 237 - 1 cm qtz v							
			65	- 237.2 - 2 cm qtz monz dykelet							
			50	- 237.7 - 10 cm qtz monz dykelet							
			70	- 238.5 - 15 cm qtz monz dykelet	tr	53295	236	239	3	0.6	5
249	252	chl	45	- 249.5 - 5 cm qtz vi tr mo, py	tr	53296	249	252	3	0.4	nd
		ser	70	- 250 - 1.6 cm qtz-monz dykelet							
			65	- 251.7 - 1 cm qtz vi tr mo, py							
252	255	chl	50	- 252.3 - 15 cm qtz vi tr mo, py	tr	53297	252	255	3	4.0	60
		ser		- 252.3 - 253.3 qtz-carb shear/brx py, po diss & as h.l.f.							
			50	fillings (1%)							
			50	- 253.3 - 2 cm qtz vi tr mo, py							
			30	- 253.8 - 1 cm qtz v							
				- 254.8 - 0.8 cm qtz vi sphal, py loc 2%							
255	258	chl		- 257 - 257.5 qtz-carb shear/brx; tr sphal, py w/ qtz stringers	tr	53298	255	258	3	1.5	30

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		ser		
264.5				- sed/TW stock contact
			55	- 264.5 - 3 cm flt gouge, qtz brx
264.5	268			- TW stock, qtz monz (as above)
268				END OF HOLE