

6223

DIAMOND DRILL REPORT

- on the -

RAINBOW CLAIMS

KAMLOOPS MINING DIVISION

Prepared for:

NAHATLATCH RESOURCES LTD. NPL,
#202-850 W. Hastings Street,
VANCOUVER, B. C.

LOCATION: NTS 92I/9W.
50°38'N, 120°29'W.
7 mi. SW Kamloops City Center.

Prepared by:

KERR, DAWSON & ASSOCIATES LTD.,
#1 - 219 Victoria Street,
Kamloops, B. C.

John R. Kerr, P. Eng.,

January, 1977.

MINERAL RESOURCES BRANCH

Assessment Report

NO. _____

INTRODUCTION

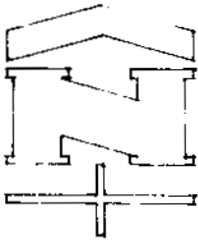
Since 1971, approximately 100,000 ft. of percussion, rotary and diamond drilling have been completed on the Rainbow claims. The two holes described in this report (total 2,014') are part of 19,025 ft. of drilling completed during the period January 15th., 1976 and August 5th., 1976. The two holes, numbers 518 and 519, were the last two drilled in the programme, and the only two drilled while the writer was retained to work on the property. The drilling was completed to establish potential ore reserves on the property. This report summarizes the methods and results of the drill programme.

Normal introductory remarks are documented in earlier reports on the property. A location map Figure 142-1, and a map showing grid and hole locations, Figure 142-3, are appended to this report. Also appended to this report are the geological logs of the two drill holes.

Map #1

Location of Drill Holes; Sections
General Geology

in pocket



120°30' W

KAMLOOPS LAKE

THOMPSON RIVER

DOWNTOWN KAMLOOPS

HWY # 1

Afton Deposit

Comet Deposit

Galaxy Deposit

NAHATLATCH RESOURCES LTD (NPL) RAINBOW CLAIMS

50°38' N

Approx Bdy. City of Kamloops

Cominco Deposit

LOGAN LAKE HWY

HWY # 5 North

6223

NAHATLATCH RESOURCES LTD (NPL)

LOCATION MAP

RAINBOW CLAIMS

KAMLOOPS AREA, B.C.

Drawn by KDA, MMMC

Scale 1" = 2 mi

Appd by JRK

Date: Oct, 1976

Own TRU

DWG. N^o 142-1

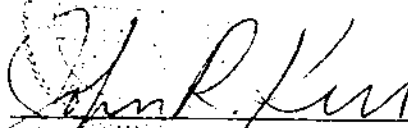
SUMMARY - DRILL PROGRAMME

During the period July 13 - August 5, 1976, two diamond drill holes 518 and 519 were completed. Malcolm Shaw of Kamloops, B. C. completed the drilling with a Longyear 38A drill. Recovered core was standard BQ size ($\sim 1 \frac{5}{8}$ " diameter).

Rock encountered was mainly chloritized, feldspathized and brecciated diorite, with fine - grained, massive basalt dykes. Core recovery from the holes was excellent, with no noticeable core lost while drilling. Core was placed in sequence in wooden boxes (25 ft./box) at the drill site. All core was split and half the core sent to Chemex Labs Ltd. in Vancouver, B. C. for copper assay. The remaining core is in storage at Versatile Mining Services Ltd., in Kamloops, B. C.

The split core was examined in detail by the writer and a visual log was prepared describing such geological features as rock-types, alteration, fractures, faults, and sulphide mineralization. Copies of these logs are appended to this report.

Respectfully Submitted By:



John R. Kerr, P. Eng.,
GEOLOGIST

APPENDIX A

DETAILED VISUAL LOGS

DDH No. 518 & 519

KERR-DAWSON & ASSOCIATES LTD. - DIAMOND DRILL RECORD

Suite 1 - 219 Victoria St.
Kamloops, B.C.
Phone 374-0544

PROPERTY NAHATLATCH

HOLE No. 76-518

DIP AND AZIMUTH TEST		
Corrected		
Footage	Angle	Azimuth

Core Size BQ
 Angle of Hole Vertical
 Claim Rainbow NW
 Section 1330W
 Bearing —

Total Depth 757'
 % Recovery ~ 100%
 Elev. Collar
 Latitude
 Departure

Sheet No 1 of 5
 Logged by John R. Kerr, P. Eng.
 Date Begun July 13/76
 Date Finished July 20/76
 Core Stored At

DEPTH	CORE LOST	DESCRIPTION	SAMPLE No.	WIDTH of SAMPLE				
0-26		Overburden						
26-86	0	Dark grey-green, highly altered, medium grained diorite. Alteration is widespread chlorite, with secondary carbonate and feldspar assoc. with fractures. Some dark green zoning to possible bands pyroxene-rich-peridotite.						
		Sulphides present on fracture faces (mainly pyrite) in moderate content. Fractures oriented 5 - 10° (dominant) to core axis, and 60 - 70° to core axis.						
		Surface weathering and rusting evident to 45'.						
86-92	0	Light creamy-grey, highly feldspathized breccia zone. Sulphides persistent as dissem. (pyrite) cpy). Possibly some MoS ₂ .						
92-111		Fine grained, dark grey, massive basalt. Alteration is mainly chlorite along sheared fracture faces.						

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PROPERTY NAHATLATCH HOLE No. 76-518 SHEET No. 2 of 5

DEPTH	CORE LOST	DESCRIPTION	SAMPLE No.	WIDTH of SAMPLE				
111-135		Highly altered, brecciated and contorted grey-green medium grained diorite. Alteration is widespread chlorite, with extreme secondary feldspar, and some minor carbonate and epidote assoc. with fractures.						
		Sulphides - mainly pyrite, on fracture faces and as dissem.						
135-146		Coarse grained, moderately altered, pyroxene - rich gabbro, or pyroxenite. Pyrite assoc. with fracture faces.						
146-155	0	Light grey, altered and replaced breccia zone. Secondary feldspar and carbonate throughout zone. Possible major fault. Diss. pyrite in zone.						
155-207	0	Dark grey-green, with light creamy sections, highly altered medium grained diorite. Alteration includes widespread chlorite, and secondary feldspar and carbonate assoc. with fracture and breccia zones, noted below.						
		Sulphides persistent throughout section, mainly as massive blebs assoc. with fractures, oriented at 0 - 10° to core axis. (Pyrite > cpy).						
		176-178 } highly feldspathized						
		203-205 } breccia zones.						

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PROPERTY NAHATLATCH

HOLE No. 76-518

SHEET No. 3 of 5

DEPTH	CORE LOST	DESCRIPTION	SAMPLE No.	WIDTH of SAMPLE				
207-226	0	Light grey, highly feldspathized and carbonated breccia zone. Dissem. pyrite throughout.						
		All sheared fractures oriented 0 - 5° to core axis.						
226-354	0	Dark grey (slightly green caste), medium grained, moderately altered diorite. Alteration is weak widespread chlorite with some coatings of chlorite on fractures.						
		Pyrite coatings on fracture faces. Fracture trend 0 - 10° (dominant) and 50 - 60° to core axis.						
354-359	0	Light grey altered breccia zone. Diss. pyrite. Alteration is secondary feldspar, carbonate and graphite on shears.						
359-384	0	Dark grey-green, highly altered medium grained diorite. Alteration includes widespread chlorite, with zones of secondary feldspar and CaCO ₃ assoc. with fractures and breccia zones.						
		Sulphides (pyrite > cpy) on fractures. Dominant trend 0 - 5° to core axis.						

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PROPERTY NAHATLATCH HOLE No. 76-518 SHEET No. 4 of 5

DEPTH	CORE LOST	DESCRIPTION	SAMPLE No.	WIDTH of SAMPLE				
384-487	0	Dark grey, moderately altered medium grained diorite. Weak chlorite alteration, with brecciated secondary feldspar zones. Pyrite on fracture faces throughout zone.						
		436-438) Light grey, feldspathized						
		447-448) breccia zone.						
		459 fault? zone - gouged						
		466-469 feldspathized breccia zone.						
487-598	0	Rock essentially similar to above, however introduction (very gradationally) of pink K-feldspar epidote and carbonate. Pyrite possible more abundant than above section.						
		516 Carbonate filled shear on fault.						
		496-500 Sheared and blocky - gouge?						
		543 Carbonate filled shear.						
		597-598 Thermal alteration evident.						
598-619		Light pinkish-grey, rhyolite, or aplite dike. Very little alteration and no sulphides noted.						
619-680	0	Dark grey-green altered diorite. Alteration is slight chlorite with significant pink K-feldspar epidote and carbonate.						
		Sulphides (pyrite >> cpy) pervasive on fracture						

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PROPERTY..... NAHATLATCH.....

HOLE No. 76-519.....

DIP AND AZIMUTH TEST		
Corrected		
Footage	Angle	Azimuth

Core Size BQ.....
 Angle of Hole 45°.....
 Claim..... Rainbow NW.....
 Section..... 1030W.....
 Bearing S20E.....

Total Depth 1257'.....
 % Recovery ~100%.....
 Elev. Collar
 Latitude
 Departure

Sheet No. 1 of 6
 Logged by John R. Kerr, P.Eng.
 Date Begun July 22/76
 Date Finished Aug. 5/76
 Core Stored At

DEPTH	CORE LOST	DESCRIPTION	SAMPLE No.	WIDTH of SAMPLE				
0-16		Overburden						
16-243	6"	Dark grey-green, highly altered, fine - medium grained diorite. Alteration includes widespread chlorite alteration, with secondary CaCO ₃ along fractures and veins. Secondary feldspar alteration in zones - as noted below.						
		Sulphides present as fillings and smears along fracture faces (pyrite > cpy). Fracture trends at 40-45° and 60° to core axis.						
		67-71' - Light grey feldspathized breccia zone.						
		16-28' - Rusting oxidized zone.						
		32-43' - Ryroxene - rich - gabbro.						
		111-115 - Light grey feldspathized breccia zone.						
		126-128 - breccia zone, as above.						
		165-169 - breccia zone - more CaCO ₃ than other zones.						
		205-208 - Highly carbonated breccia zone.						
		218-220 - breccia zone as above.						
		235-239 - breccia zone as above.						



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PROPERTY NAHATLATCH HOLE No. 76-519 SHEET No. 2 of 6

DEPTH	CORE LOST	DESCRIPTION	SAMPLE No.	WIDTH of SAMPLE	Cu	MoS ₂	Au	Ag
243-311	0	Dark green, highly altered, basic rock - alteration makes it very difficult to recognize original rock. Possibly ultrabasic pyroxenite differentiate. Some evidence of serpentinization.						
		Sulphides present in moderate content (pyrite > cpy). 293-295 - Breccia zone.						
311-323	0	Light grey-brown-green, breccia zone. Secondary carbonate and feldspar assoc. with zone. Minor sulphides in zone (pyrite > cpy).						
323-385	0	Dark grey-green, highly altered, medium grained diorite. Alteration is mainly widespread chlorite with secondary feldspar in breccia zones - noted below. Sulphides persistent in zone (pyrite > cpy). 329-330) Light grey feldspathized 350-352) and carbonated 355-357) breccia zones.						
385-512		Rock essentially similar to above, however gradational increase in chalcopyrite content (cpy > pyrite). Possibly less breccia zones.	20145 460-470	10'	.18%			CTP
					.16%	.004%	ND	.07 KDA

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PROPERTY NAHATLATCH HOLE No. 76-519 SHEET No. 3 of 6

DEPTH	CORE LOST	DESCRIPTION	SAMPLE No.	WIDTH of SAMPLE				
512-525	0	Light creamy white, totally feldspathized rock - probable breccia zone. Dissem. sulphides in rock. (pyrite = cpy) possibly some traces MoS ₂ .						
525-585	0	Dark grey, moderately altered medium grained diorite. Alteration is slight chloritization mafics, with highly feldspathized breccia zones. (noted below). Moderate content of sulphides as veins and smears on fracture faces. (pyrite > cpy). Fracture trends 50-55° to core axis. 548' - Light grey breccia zone. 555-556' - Light grey breccia zone. 574' - Light grey breccia zone. 578' - Light grey breccia zone. Gradational contact at 585'.						
585-652	0	Dark grey-green, medium grained highly altered diorite. Alteration includes widespread chlorite, with secondary carbonate, feldspar, and minor epidote assoc. with fractures. Some brecciated zones. Sulphides dominant as blebs and diss. (cpy > pyrite). Fractures trend - 45° & 65-70° to core axis.						

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PROPERTY NAHATLATCH HOLE No. 76-519 SHEET No. 4 of 6

DEPTH	CORE LOST	DESCRIPTION	SAMPLE No.	WIDTH of SAMPLE				
652-793	0	Dark grey (slight green tinge), moderately altered, medium grained diorite. Alteration is minor chlorite after mafics, with carbonate feldspar, and chlorite on fractures.						
		Persistent sulphides associated with fractures oriented at 45-50° to core axis. (cpy } pyrite), as blebs and massive veins. Secondary insipient fracture trend ~ 30° to core axis, with much sulphides.						
		Shearing and slickenslides on fracture faces at 793'.						
793-800	0	Light grey breccia zone, some minor sulphides.						
800-851		Grey, and dark grey, medium-grained massive relatively unaltered diorite. Rock mass is quite fresh, with x'ls of unaltered biotite and hornblende. Alteration of minor chlorite and carbonate on fracture faces.						
		Moderate content of sulphides on fracture faces (pyrite } } cpy).						
851-995	0	Light and dark greenish - grey, moderately altered diorite. Zones of extreme secondary feldspathized						

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PROPERTY NAHATLATCH HOLE No. 76-519 SHEET No. 5 of 6

DEPTH	CORE LOST	DESCRIPTION	SAMPLE No.	WIDTH of SAMPLE					
851-995	(cont'd)	High content of sulphides assoc. with fractures and as disseminations. Pyrite > cpy in general rock; cpy > pyrite in breccia zone.							
		851-856' - Feldspathized breccia zone, with cpy							
		863-866') - Light creamy-grey,							
		885-891') highly feldspathized							
		907-915') breccia zones - cpy > pyrite							
		922-927')							
		959-966' - Feldspathized breccia and gouged zone - fault							
995-1006	0	Dark grey, fine grained basalt dyke. Rock has smearings of pyrite on fracture faces.							
1006-1027	0	Dark grey, moderately altered diorite, as 851-995 with sulphides (pyrite = cpy)							
1027-1071	0	Dark grey, massive, fine grained, dense basalt dyke. Alteration is coatings of chlorite on fract- ure faces. Evidence of shearing - slickenslides on fractures. Dominant trend at 30° to core axis.							
		Sulphides, mainly pyrite, on fractures.							

APPENDIX B

COST STATEMENT

JOHN R. KERR, P.ENG.

GEOLOGICAL ENGINEER


9-219 VICTORIA STREET
KAMLOOPS, B.C.

PHONE (604) 374-6427

WRITER'S CERTIFICATE

I, JOHN R. KERR, OF KAMLOOPS, B. C. DO HEREBY CERTIFY THAT:

- (1). I am a member of the Association of Professional Engineers of British Columbia, and a Fellow of the Geological Association of Canada.
- (2). I am employed by Kerr, Dawson and Associates Ltd., with my office at #1 - 219 Victoria Street, Kamloops, B. C.
- (3). I have practised as a geologist continuously since graduating from the University of British Columbia in 1964, with a B.A. Sc. in Geological Engineering.
- (4). I have no direct or indirect holdings of securities of Nahatlatch Resources Ltd. NPL, or in the Rainbow claims described in this report.
- (5). The drilling ~~programme~~, Holes #518 and 519, was completed July 13 - August 5th., 1976. I did not supervise the project; however, was employed as a consultant to work on the project during this period.
- (6). The costs as shown in Appendix B, are to the best of my knowledge, correct.

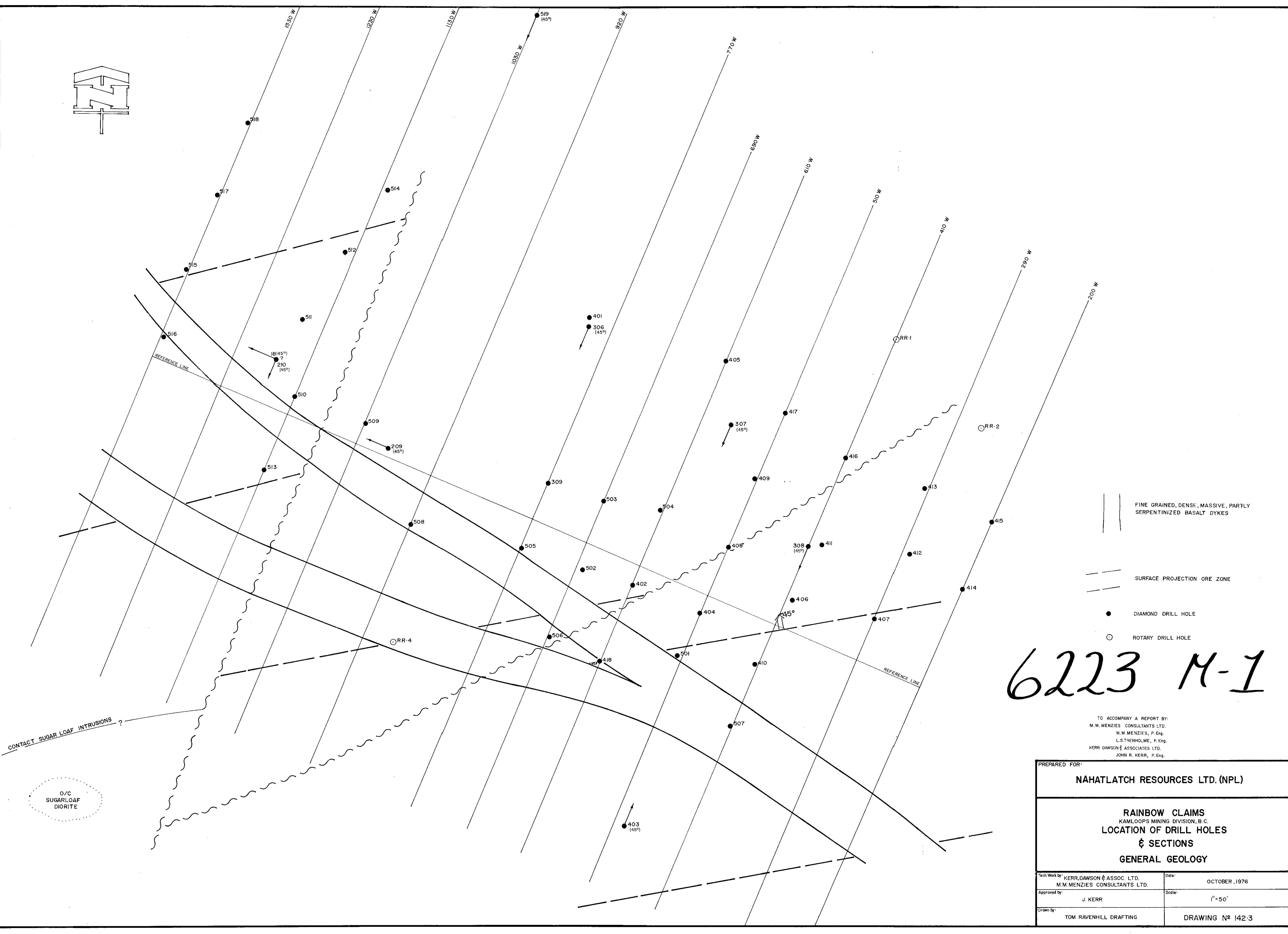
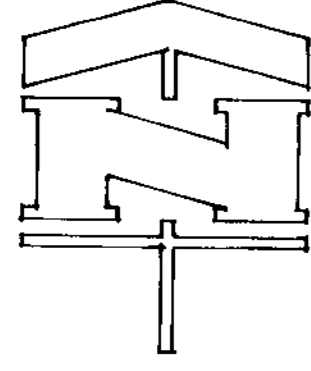


John R. Kerr, P. Eng.,
GEOLOGIST

January, 1977,
KAMLOOPS, B. C.

APPENDIX C

WRITER'S CERTIFICATE



6223 M-1

- ||| FINE GRAINED, DENSE, MASSIVE, PARTLY SERPENTINIZED BASALT DYKES
- SURFACE PROJECTION ORE ZONE
- DIAMOND DRILL HOLE
- ROTARY DRILL HOLE

CONTACT SUGAR LOAF INTRUSIONS ?

O/C SUGARLOAF DIORITE

TO ACCOMPANY A REPORT BY:
 M.M. MENZIES CONSULTANTS LTD.
 M.M. MENZIES, P. Eng.
 L.S. TRENHOLME, P. Eng.
 KERR DAWSON & ASSOCIATES LTD.
 JOHN R. KERR, P. Eng.

PREPARED FOR:	
NAHATLATCH RESOURCES LTD. (NPL)	
RAINBOW CLAIMS KAMLOOPS MINING DIVISION, B.C. LOCATION OF DRILL HOLES & SECTIONS GENERAL GEOLOGY	
Tech Work by:	Date:
KERR, DAWSON & ASSOC. LTD. M.M. MENZIES CONSULTANTS LTD.	OCTOBER, 1976
Approved by:	Scale:
J. KERR	1" = 50'
Drawn by:	
TOM RAVENHILL DRAFTING	DRAWING Nº 142-3