LAKEWOOD MINING COMPANY LIMITED

DIAMOND DRILLING REPORT

on the

WOOD MINERAL CLAIM GROUP

Kamloops Mining Division

British Columbia

Canada

N.T.S.092I/09W and 92I/10E

Latitude 50° 37' 00" N
Longitude 120° 32' 30" W

Owned By:

Lakewood Mining Company Limited

and

Green Valley Mines Incorporated

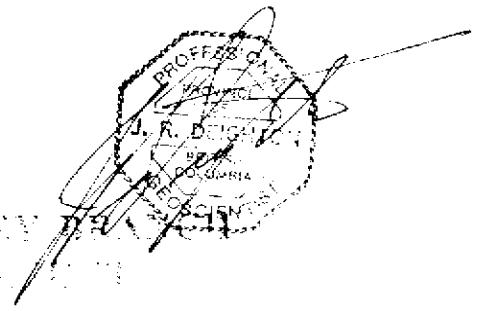
Operated By:

Lakewood Mining Company Limited

By:

John R. Deighton, B.Sc., P.Geo.

June 10, 2000



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Summary

The Wood Claim Group is under option agreement to Lakewood Mining Company Limited and Green Valley Mines Incorporated and they jointly hold approximately 32 square kilometers of ground comprised of 16 two post and 11 metric claims in the Kamloops Mining Division of British Columbia Canada. The claims are located approximately 18 kilometers south of Kamloops, B.C. at latitude 50° 37' 00'' north and longitude 120° 32' 30'' west. Lakewood Mining Co. Ltd. is the operator on the property.

The claims are underlain by Nicola Group volcanics and sediments and the claims lie on the south side of the Iron Mask Batholith. Small remnants of the Kamloops Group volcanics are found within the area.

The claim area has been under control of various companies or individuals since the discovery of the Afton orebody in 1973. Various geochemical, geophysical and geological surveys as well as diamond and percussion drilling has been conducted on the present claim area by the various individuals and companies. The present drilling program conducted from April 10 to June 2, 2000, and consisted of 5 NQ holes, 1417.93metres, drilled by Frontier Drilling Corp. under the direction of C. Boitard, president of Lakewood Minimg Company Limited. John R. Deighton was retained to log the core and to write the assessment report for the work done.

Although no mineralization of economic significance has been discovered on the property, the claim cover favorable geological stratigraphy and warrant further exploration.

Introduction

In April of 2000, the writer was commissioned by C. Boitard, the president of Lakewood Mining Company Limited, to log the diamond drill core produced by the planned diamond drill program and to write an assessment report to cover the work done. This program was conducted on the company's Wood mineral claims situated approximately 18 kilometers west-southwest of Kamloops, British Columbia, Canada.

This report is based on the four trips to the property to log the core produced by the diamond drill program. The logging of the holes was done from April 18 to 20, May 8 to 13, May 18 to 20 and May 31 to June 1, 2000. The report also is based on the writer's knowledge of the region gained while working throughout British Columbia and by reading geological reports on the region, assessment reports on the property and surrounding area, and by a site visit to the property on May 30, 1998. The report presents an evaluation of the results of previous exploration on the property from published and unpublished reports, both government and private.

All reports concerning the property, listed in the references have been reviewed and have been used, as referenced, in the report. This report describes the claim holdings exploration history, geology and mineral showings of the Afton type porphyry system copper deposits.

Although economic mineralization has not yet been reported from the area occupied by the Wood Claim Group, it is concluded from a review of the data that this group is in a favorable geological environment for the occurrence of base and precious metals. The Wood Claim Group merits a program of mineral exploration to outline any mineral targets for further development.

Location and Access

The Wood Mineral Claim Group is located at 50° 37' 00'' north Latitude and 120° 32' 30'' west Longitude, in the Kamloops Mining Division, British Columbia, Canada. The claims making up the group are centered approximately 18 kilometers west-southwest of Kamloops, B.C. on the Thompson Plateau within an area of gently rolling hills on the north and east slopes of Chuwhels Mountain. The local elevation range from 750 to 1525 metres above sea level and the vegetation consists of previously logged dense forests of fir and pine with open grassland patches.

Access to the property is provided from the Trans-Canada Highway west of Kamloops, B. C., and then south along the Green Mountain Road, which is a branch off the highway approximately two kilometers west of the Afton Mine. Alternately access may be gained from the Inks Lake turnoff on the Coquilhalla Highway westwards for a distance of approximately three kilometers. Good dirt roads provide access to most of the claim area.

Kamloops is serviced by daily aircraft flights from Vancouver or is within an easy day's drive from Vancouver along the Trans-Canada Highway or Coquilhalla Highway a distance of some 428 or 356 kilometers respectively (Figure 1). Accommodation and meals may be obtained from the many local motels, hotels and restaurants in the area.

Claims

The approximately 32 square kilometer Wood Claim Group, located in the Kamloops Mining Division is comprised of 18 two post mineral claims and 10 metric four post mineral claims, totaling 128 units (Figure 2). The writer made a personal field examination of the property on May 30, 1998 and again on June 1, 2000 and can attest to the fact that claim posts have been placed in the field and those examined appear to have been staked in the prescribed manner. Not all of the posts of the claim group were examined so the writer cannot attest to the manner of staking of those claims not examined nor can attest to the precise position of the claims depicted on Figure 2.0. The claims depicted were redrawn from the British Columbia Department of Mines and Petroleum Resources.

The Wood Mineral Claim Group is comprised of 28 mineral claims held by location.

Essential claim data are listed as follows:

Claim Name	Units	Record Numbe	Record Date	Expiry Date
KAM #2	4	216956	26/08/80	26/08/2000
KAM # 5	9	318367	18/06/93	18/06/2000

Figure 1. LOCATION MAP

KAM 6	20	356172	16/05/97	16/05/2000
KAM 9	1	364741	17/08/98	17/08/2000
KAM 10	1	364742	17/08/98	17/08/2000
WOOD #2	1	218374	04/04/89	04/04/2005
WOOD #3	1	218375	04/04/89	04/04/2005
WOOD #4	6	218376	04/04/89	04/04/2005
WOOD #5	9	218377	04/04/89	05/04/2005
CAMP #3	4	325397	14/05/94	14/05/2000
CAMP	20	218587	13/06/89	13/06/2000
DAM #3	20	355487	27/04/97	27/04/2002
DAM #5	1	355489	26/04/97	26/04/2002
DAM #6	1	355490	26/04/97	26/04/2002
DAM #7	1	355491	26/04/97	26/04/2002
DAM #15	1	355499	26/04/97	26/04/2002
DAM #16	1	355500	26/04/97	26/04/2002
DAM #17	1	355501	26/04/97	26/04/2002
DAM #18	1	355502	26/04/97	26/04/2002
DAM #19	10	363107	05/06/98	05/06/2002
INKS 1	1	369217	14/05/99	14/05/2002
KEY 1	1	369218	14/05/99	14/05/2002
KEY 2	1	369219	14/05/99	14/05/2002
KEY 3	1	369220	14/05/99	14/05/2002
KEY 4	1	369221	15/05/99	15/05/2002
KEY 5	1	369222	15/05/99	15/05/2002
KEY 6	1	369223	15/05/99	15/05/2002
TOTAL	128			

All of the above claims are registered in the name of Mr. Charles Boitard, 2245 West 13 Avenue, Vancouver, British Columbia, Canada. There is letter of transfer and a letter stating that the claims are being held in trust for Lakewood Mining Co. Ltd. and Green Valley Mines Inc. Both companies maintain offices at 2245 West 13 Avenue, Vancouver, British Columbia, Canada. Mr. Charles Boitard is the President of Lakewood Mining Co. Ltd. Lakewood Mining Co. Ltd. is operator of the claim group.

Exploration History

Mineral showings and deposits in the area are diverse and occur in many different locals. Deposits or showing of gold, silver, lead, zinc, copper, mercury, tungsten have been found, some of which are among the earliest known in the province. Copper mineralization was discovered in the vicinity of the Iron Mask Batholith in the late 1800's. The Iron Mask Mine located in the north end of the batholith was first staked in 1896 and produced 189,230 tons between 1901 and 1928 that produced 5,194,871 lbs. of copper. Several other small producers were mined in the area, which produced small amounts of copper until the late 1930's.

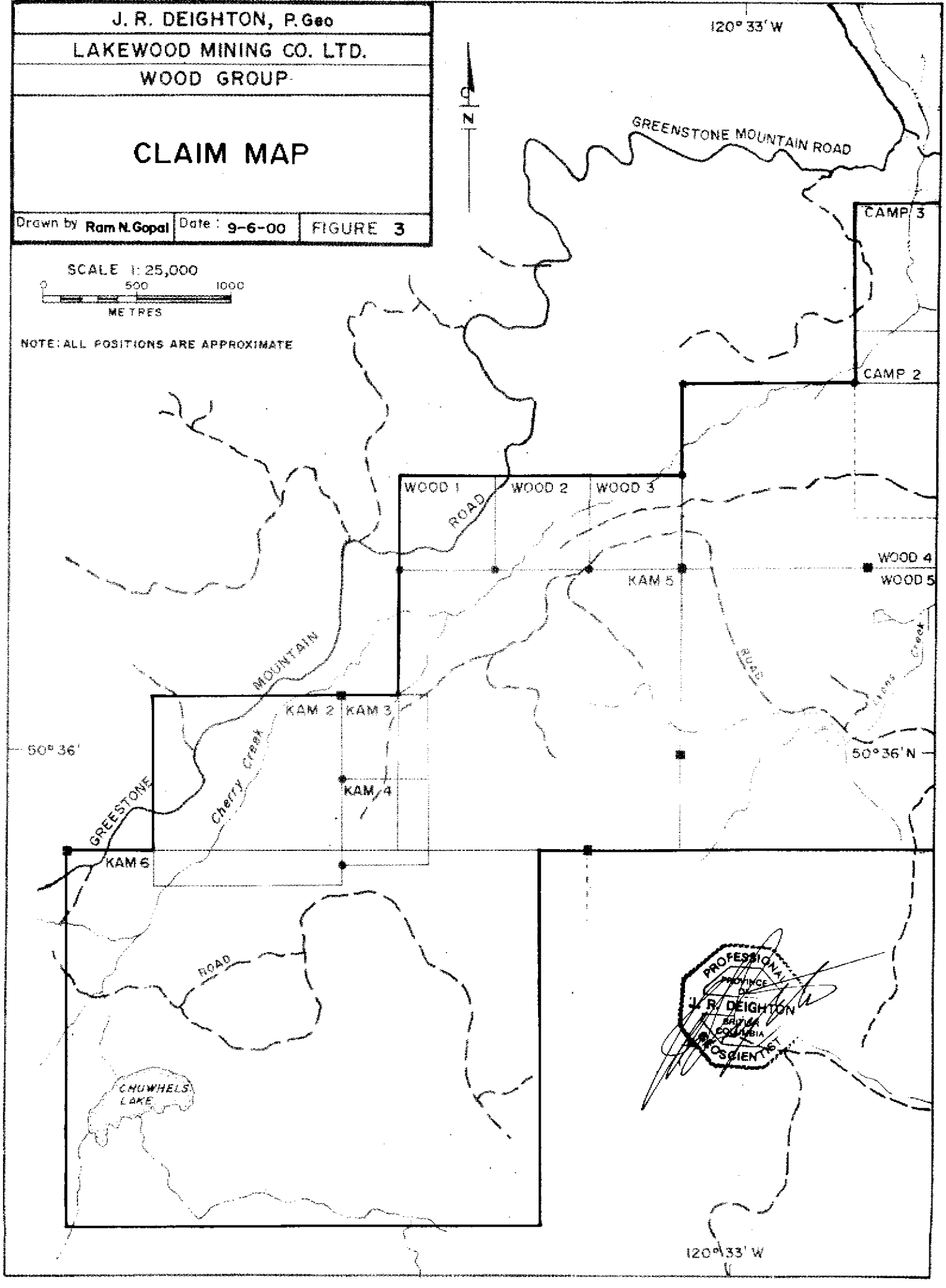
J. R. DEIGHTON, P.Geo

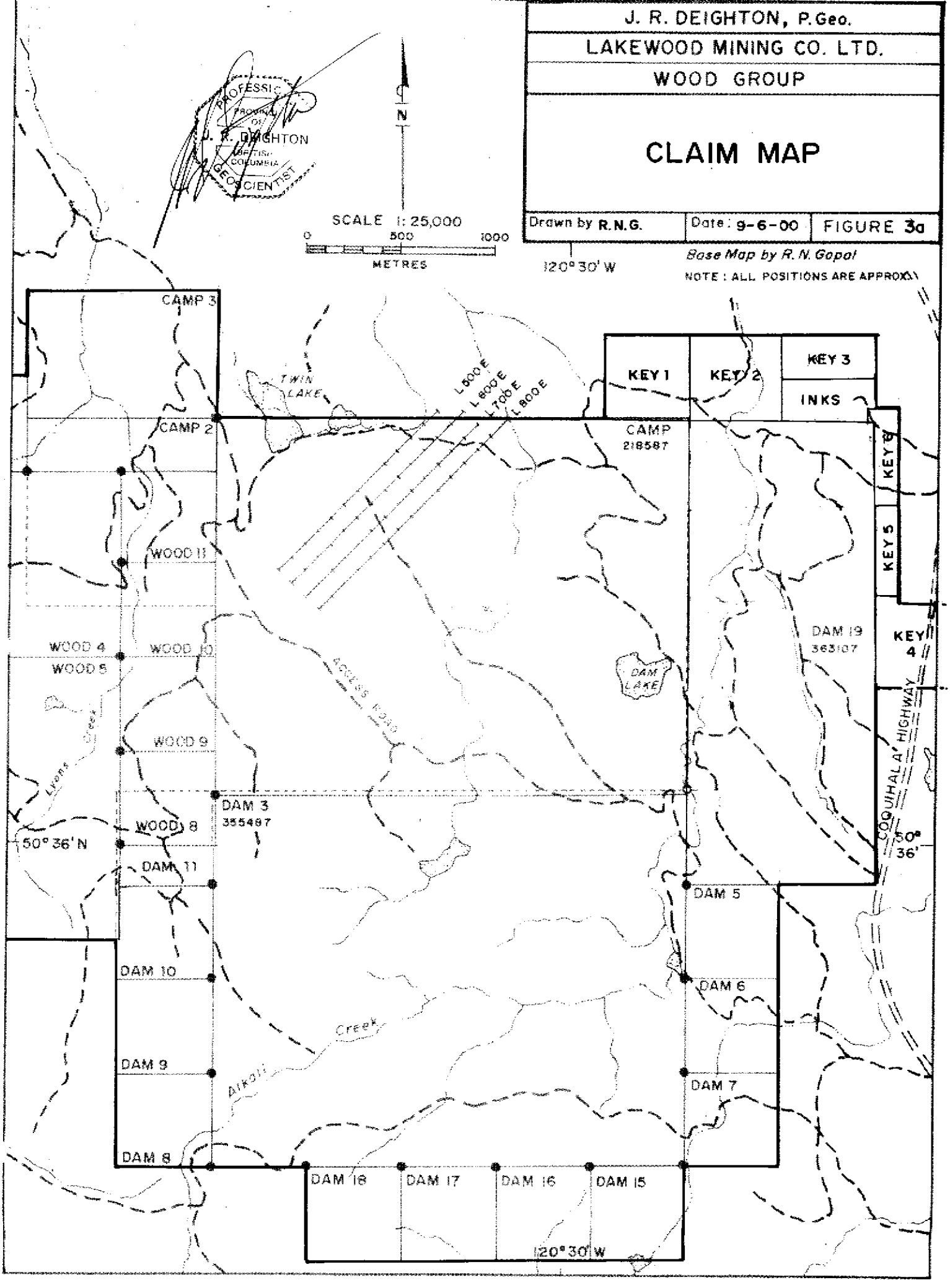
LAKEWOOD MINING CO. LTD.

WOOD GROUP

CLAIM MAP

Drawn by Ram N. Gopal | Date : 9-6-00 | FIGURE 3




J. R. DEIGHTON, P.Geo.
LAKEWOOD MINING CO. LTD.
WOOD GROUP
CLAIM MAP
Drawn by R.N.G.
Date: 9-6-00
FIGURE 3a
Base Map by R. N. Gopal
NOTE : ALL POSITIONS ARE APPROX.
PROFESSIONAL ENGINEER
PROVINCE OF BRITISH COLUMBIA
J. R. DEIGHTON
GEOSCIENTIST
N
SCALE 1: 25,000
0
500
1000
METRES
120° 30' W
50° 36' N
CAMP 3
CAMP 2
CAMP 218587
KEY 1
KEY 2
KEY 3
INKS
KEY 6
KEY 5
KEY 4
WOOD 11
WOOD 4
WOOD 10
WOOD 5
WOOD 9
WOOD 8
DAM 3 355497
DAM 19 363107
DAM 11
DAM 10
DAM 9
DAM 8
DAM 5
DAM 6
DAM 7
DAM 18
DAM 17
DAM 16
DAM 15
TWIN LAKE
DAM LAKE
ACCESS ROAD
LYONS CREEK
Creek
L 800 E
L 800 E
L 700 E
L 800 E
COQUIHALLA HIGHWAY
50° 36'
120° 30' W

In the early 1960's, after the discovery of the Bethleham orebody located in the Highland Valley to the southwest, attention in the area turned to the copper showings in the area. With this increase in exploration activity the area around the Iron Mask Batholith received considerable attention and activity. With the discovery and drilling of the Afton orebody in the mid 1970's, the surrounding area received a lot of attention and the Wood Claim area has been staked almost continuously since that time.

A complete list of all the individuals or companies that worked on the Wood Claim area is not known to the author. Research of the assessment report filings with the British Columbia Department of Mines and Petroleum Resources produced a list of assessment reports that were studied for the material contained in this report. A complete list of the reports studied is found in the References of this report.

The Afton orebody, located five kilometres to the northeast of the claim group, began production in 1977 and continued through to 1991 when it was shut down for economic reasons. At start up, Afton had a drill proven reserve of 30.84 million tonnes grading 1.0% copper, 0.58 ppm silver at a cut off grade of 0.25% copper (Carr & Reed, 1976).

Exploration Reports of Wood Group Claim History

1971: Shelly Claims
59,000 feet (1.78 km) of cut line, and location of a number of small, mostly single sample copper in soil anomalies

1972: Shelly Claims
22.16 miles (35.7 km) Geomagnetic survey
Geochemical Soil Survey
Prospecting
Results: Andesites intruded by Coast Intrusive along Cherry Creek and cut by Quartz veins.
Located five soil anomalies in copper
Weak soil anomalies in copper along one magnetic high anomaly.

1972: Bill and Gal Claims
26.0 miles (41.84 km) of Magnetometer Survey
Results: Magnetic lows represent northwest trending shear zone.

1972: Rich Group
1187,500 feet (5.7 km) Magnetometer Survey
79,400 feet (23.0 km) I.P. survey
75, 500 feet (23.0 km) Geochemical Soil Survey
Results: slightly anomalous chargability values with some correlation to weak magnetic highs and positive copper geochemistry anomalies and in some cases reduced resistivity. Weak northeast magnetic trends, reflect one rock type. High geochemical Soil Anomalies that have a northeast trend that may reflect

cognoscente faults off main northwest trending fault proposed by magnetic survey done in 1971.

1972: Ren Group
15.6 miles (25.0 km) of I. P. Survey
Geochemical Soil Survey
Geological Mapping
Magnetometer Survey

Results: Low amplitude results in I. P., 5 weak anomalies, three later tested by drilling with negative results. Two anomalies untested and a high single point value on western margin of survey needs further definition. Several weak copper in soil anomalies detected that generally lie away from I. P. anomalies. Magnetic high not associated with chargability anomalies. Diamond drilling results indicate that there was no mineralization detected of significance, although alteration (chloritic and intense argillic) was detected in diamond drill hole 92-2. Magnetometer survey indicates two rock types underlie property.

1976: Jim 1 Claim
27.0 km Magnetometer Survey

Results: Magnetics reflect Nicola volcanics and nothing of particular interest. Results reflect only one rock type.

1979: Dave and "A" Claims
24.0 km VLF Electromagnetic Survey
Radiometric Survey

Results: No significant scintillometer readings found. Anomalous magnetic Patterns were found trending in a northwest direction more or less parallel to the trend of the Cherry Creek Valley depression. Apparently 8 percussion drill holes were drilled on anomalous area by Granite Mountain Mines Ltd. in 1972 totaling some 2500 feet, (reported to Tully by W. Meyer). Results from drilling were apparently reported to be inconclusive.

1979: Dave and "A" Mineral Claims
32.0 km Horizontal Loop Electromagnetic Survey
Diamond Drilling: 2 holes, 208 m

Results: drilling on VLF-Em anomaly found a major size multiple shear zone. Spectrographic analysis showed small amounts of copper and traces of gold and silver were present in the hardpan layer at the bedrock surface and concluded that the shear zone might contain significant mineralization at some point along its strike and dip. The H.L.E.M. survey confirmed the VLF-EM survey results from earlier surveys.

1980: Dave and "A" Mineral Claims
Diamond Drilling, 6 holes, 1504.53 m in 1980 and 2 holes 1712.53 m in 1979
22.0 km Turam Ground Electomagnetic Survey

Results: several linear anomalous zones trending in a north-south pattern. The strongest anomalies chosen for diamond drilling, which showed strong zones of chloritic schists and mud faults with associated mylonitic rocks. Scattered flecks of native copper in all but one hole, full width of chloritic schists is greater than 300 meters and copper values up to 0.35% with values found in quartz carbonate zones.

1981: Hank 1 Claim
12.0 km VLF electomagnetic Survey
Results: Detected 3 north-south trending linear anomalies, which probably detect the Cherry Creek fault.

1981: G. M. Property
Prospecting, Soil Sampling and Grid Survey
Results: Several outcrops found north and east of Dam Lake with minor copper mineralization. Three areas of weak to moderate copper in soils.

1981: Kam Claims
3.6 kilometers of I.P. Survey
3.6 kilometers of Magnetic Survey
Geochemical Soil Survey
Results: 5 weakly anomalous zones of copper soil anomalies, I.P. anomalies and magnetics. One zone previously tested by drilling with no economic mineralization detected.

1981: Kam Claims
Percussion Drilling, 9 holes, 2855 feet (870.2 m)
Diamond Drilling, 3 holes 80-1 to 80-3, 600 feet (182.88 m)
Results: reports that the Nicola volcanic rocks are cut by feldspar porphyry dykes and contain sparsely distributed native copper and are faulted. The fault zones are up to 20 meters wide. One percussion drill hole with high amount of quartz chips. No significant mineralization encountered.

1982: Paye Claim
Magnetometer Survey
VLF-EM Survey
Geochemical Soil Sampling Survey
Results: two magnetic low response areas, correlate with coincident zones of electromagnetic response. A weakly anomalous area of copper values appears to correlate with a creek drainage pattern and may be due to local accumulations.

1982: Greg Mineral Claim
20.0 km VLF Electromagnetic Survey, wide space reconnaissance

Results: Indicates a number of good conductors showing both a strong cross-over and associated horizontal field strength anomalies requiring follow-up investigation.

1983: Hank 1 Claim
VLF Electromagnetic Survey
Geochemical Soil Survey

Results: detected 3 electromagnetic linear conductive zones, which are continuations of the EM anomalies found in 1981.

1984: Greg Mineral Claim
8.5 kilometers of VLF-Electromagnetic Survey
Geochemical Soil Survey

Results: No conclusive geochemical anomalies, high copper in soil values scattered throughout area surveyed. Reconfirmed anomalous electromagnetic conductors. No conclusive geochemical or electromagnetic targets found.

1990: Wood Group
5.0 kilometers of I.P. Survey. Survey over previously surveyed ground.

Results: Confirmed anomalies found in an earlier survey.

1990: G. M. Property
Line Cutting
Geochemical Soil Survey

Results: an anomalous trend of high copper values that have a northerly strike, which suggests a potential for the presence of a sub-cropping mineralized shear zone.

1991: Wood Claims
9.3 km I.P. Survey. 9 lines
Diamond Drilling. 1 hole, 196.3 m

Results: I.P. correlated the location of 4 anomalous zones found in previous surveys, one anomaly not repeatable on larger dipole spacing. Drilling of clay altered rock, hole abandoned in fault.

1991: Wood Group
Line Cutting. 14 line km

1992: Chu Claims
Interpretation of Government air photos and aeromagnetic maps and examination of rocks under a microscope.

Results: Concludes that the area may be underlain by an intrusive at shallow depth. Two styles of mineralization possible, porphyry Cu-Au and Au-Ag vein deposits.

1992: Wood Claims
21.90 kilometers of I. P. Surveys
12.0 kilometers of EM Surveys

Results: 5 anomalous zones, Cherry Creek represents a fault, which may carry mineralization and is worthy of further exploration. One anomaly drilled previously.

1992: Wood Claims
Diamond Drilling. D. D. Log for hole 92-2, 196.3 metres. Mention of 9 percussion drill holes drilled in 1981.

Results: A heterolithic breccia with rare localized pyrite and rare specks of native copper. Some faulting is present in the breccia.

1993: G. M. Property
Geological Mapping

Results: One copper showing and two different rock units were found during the mapping, the Nicola Group (volcanics and minor limestone) and the Kamloops Group (dacite porphyry intrusive).

1993: Wood Claims
Percussion Drilling: 4 holes totaling 362.9 m
Diamond Drilling. 3 holes 367.0 m

Results: No economic amounts of copper mineralization were encountered.

1994: Wood Group
Percussion Drilling: 1 hole 94-8, 121.95 m
Diamond Drilling: 1 hole 94-2. 397.26 m

Results: traces of native copper in the top of hole 94-2 on Camp #3 Claim. Holes logged in 1995.

1997: Wood Group
Diamond Drill Logs 97-1 to 97-3 (729.45 m)

Results: Minor native copper, scattered pyrite and very occasional specks of chalcopyrite in Nicola volcanic rocks along with some dykes of intrusive.

1997: Wood Group
5.35 km I. P. Survey, 3 reconnaissance lines.

Results: No chargability highs were detected on the lines surveyed, which could be recommended for further work.

Regional Geology

The regional geology and mineralization of the area has been well documented by several government workers: Cockfield (1947), Carr (1956), Northcote (1977) and more recently by Kwong (1987), Stanley et al (1993).

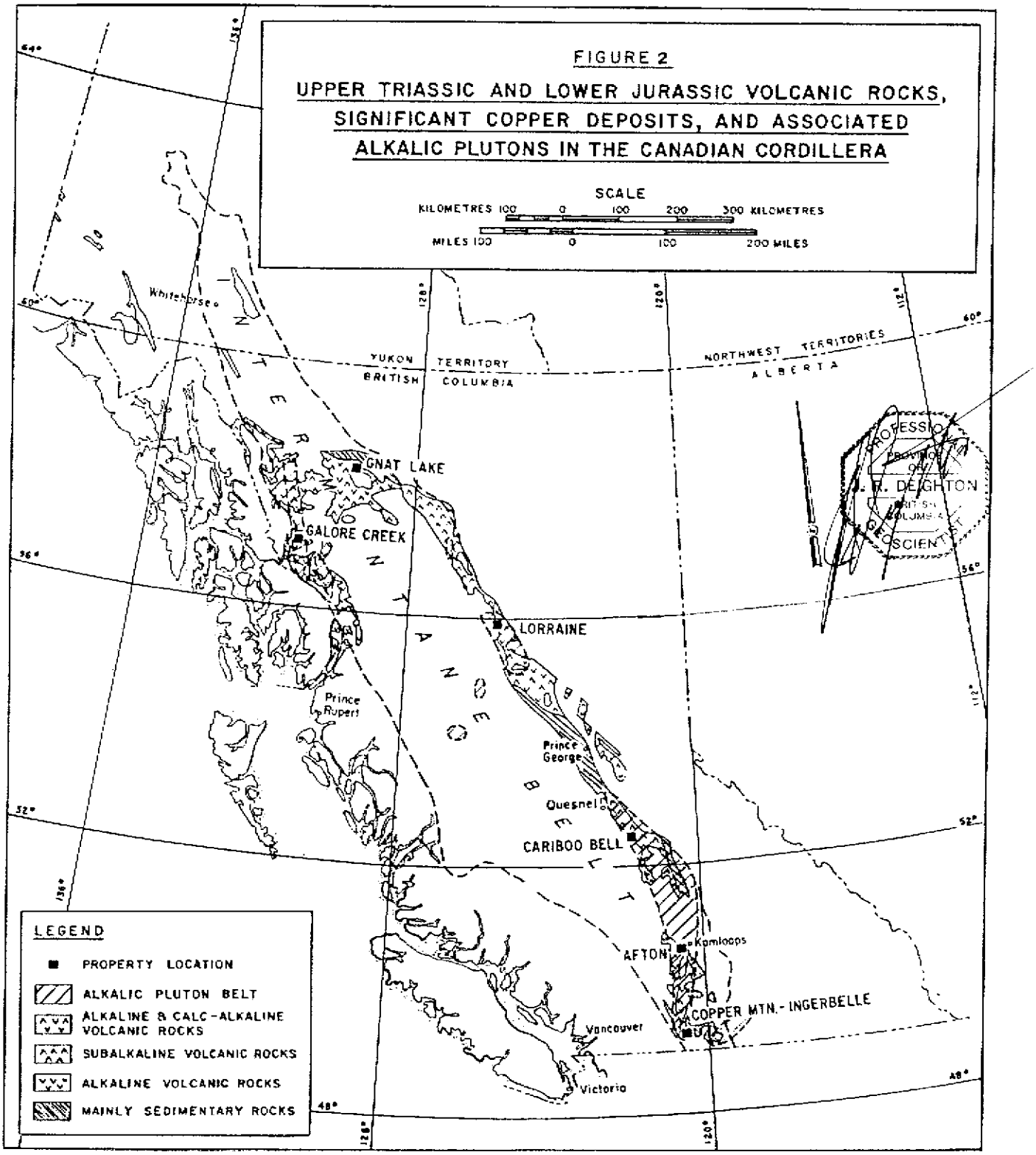


FIGURE 2 -- After Barr, Fox, Northcote and Preto

The subject claim area is situated regionally within the Quesnel Trough, a 30 to 60 kilometer wide belt of Lower Mesozoic, volcanic and related sedimentary strata extending north from the International Boundary to, at least, Prince George, B. C., belonging to the Nicola Group. The Quesnel Trough is generally fault bounded by older mainly sedimentary strata, the Cache Creek Group. Older sedimentary rocks of the Cache Creek Group are found to the east of the Quesnel Trough in the immediate area and generally bound both sides of the Trough over its entire length. Younger Coast Intrusions are found bounding the Trough in places. The Trough is itself intruded by a variety of batholiths in the immediate area of the claims, the most important of which is the Iron Mask Batholith found to the immediate north of the claims.

"The Iron Mask Batholith is a multi-unit intrusions composed of Iron Mask Hybrid, Pothook, Sugarloaf, and Cherry Creek units, each of which has several varieties. The rocks are fine grained and porphyritic to coarse grained, and are silica-poor, ranging from gabro to syenite with diorite-monzodiorite-monzonite compositions predominating.

The Iron Mask Batholith was emplaced in a high level volcanic to sub-volcanic environment and is comagmatic with the Nicola volcanic rocks and coeval with part of the Upper Nicola successions. The batholith intrudes volcanic and sedimentary rocks of the Lower Nicola, but the Cherry Creek Unit occurs both as fragments in and is in intrusive contact with Nicola rocks." (Northcote)

The Nicola Group volcanics are generally a green to light grey-green in colour although other colours from grey, purple and red. The volcanics may consist of flows, tuffs, breccias, and agglomerates and include a variety of feldspar porphyries. They vary from fine grained or nearly aphanitic types to very coarsely crystaline porphyritic varieties.

Only minor amounts of sedimentary rocks occur with the volcanic rocks of the Nicola Group. The most prominent is limestone that occurs in small lenses. Argillite and conglomerate are also found within the group.

Small remnants of the Cretaceous to Tertiary Kamloops Group of volcanics and sediments occur throughout the area, although none are known to occur on the subject claims. The basal portion of the sequence is made up of conglomerates, sandstones and shale that are overlain by flat lying dense fine-grained baslatic lavas although very minor rhyolitic varieties are known. Minor tuffs, breccias, and agglomerates may also occur.

Property Geology

A thick layer of overburden, which may reach a thickness of up to 70 metres, covers most of the claim area. Only 5 percent of the property or less contains rock outcrop. This outcrop is widely scattered and is mainly limited to some ridge crests or creek drainage. Most of the outcrops mapped and seen are Nicola volcanics, some of which showed a slight schistocity or strain fracturing. One outcrop of limestone is known to occur on the property just to the west of the highway and east of Dam Lake.

The claim area is underlain by the Nicola Group volcanic assemblage, which has been intruded by small bodies of intrusive. Small remnant bodies of the Kamloops Group volcanics are also reported to exist within the claim group. The Nicola Group volcanic rocks have been cut by several wide shear or fault zones, as noted in several of the assessment reports. Carbonate and quartz veining was noted in outcrops to the north and east of Dam Lake on the eastern side of the property. It was noted by D. W. Tully (1980), that copper mineralization picks up in assaying in areas of quartz carbonate veining in drill core from holes on the Dave and "A" mineral claims. The carbonate and quartz veining noted in outcrop, immediately north of Dam Lake, contained some open spaces and a small amount of the quartz was chalcedony. The shear zone and veining observed was at least 50 metres in width at the observed location. The strike of the majority of the observed veining was 115 and dipped at 80 to 90 to the north. A gouge zone was also seen in the creek draining Dam Lake immediately east of the lake, which appeared to have a similar strike and dip.

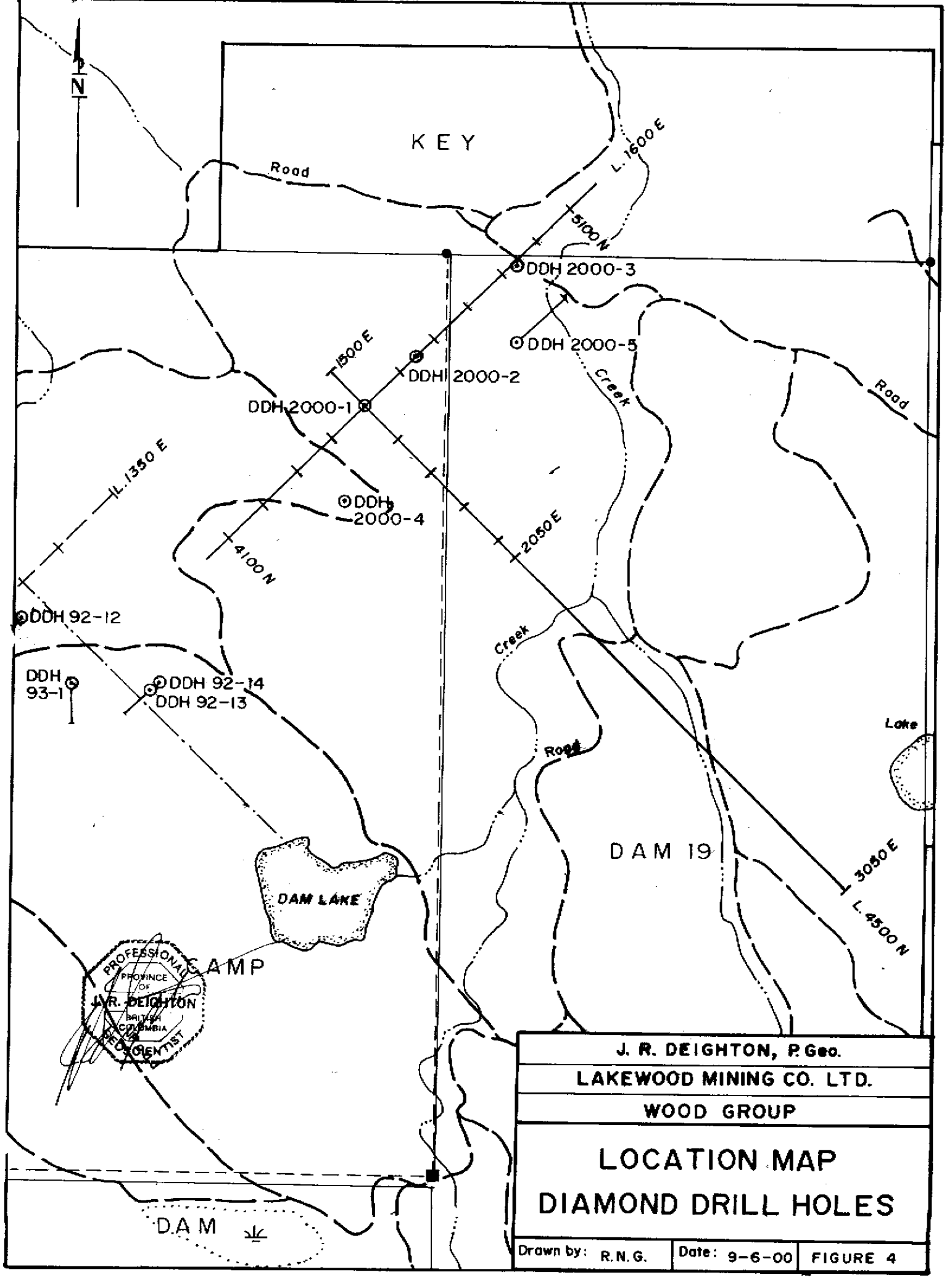
Geological mapping has been undertaken by several individuals on different portions and over several years, on several of the older properties that make up the present day Wood Claim Group. All the geologists report that the claim area is underlain by Nicola Group with some geologists reporting some minor remnant Kamloops Group volcanics and intrusive units probably belonging to the nearby Sugarloaf or Cherry Creek intrusions as underlying small portions of the property (Tully 1979). Minor limestone belonging to the Nicola Group is reported to occur in the eastern portion of the claim group on the present day Dam 19 claim (Blanchflower 1983). Limestone was also encountered in the core from the drilling conducted in 2000. No compilation map was constructed of the various maps studied, as the outcrop is less than five percent of the total area of the present claims.

Alteration is not strong within the claim group, and the alteration within the Nicola Group volcanics is weak prophylitic, chlorite and epidote. One diamond drill hole 91-2 contains moderated to strong phyllic alteration in a heterolithic breccia composed of pebble to cobble sized mostly rounded fragments of Nicola rocks in a sandy to silty matrix. The alteration in this hole is argillic and clay alteration of the original Nicola volcanics and appears to be a dry alteration product caused by the movement of the fragments and not by hydrothermal fluids moving through the rock, which would be accompanied by quantities of carbonate and quartz. Only very occasional specks of pyrite and native copper were seen in the Hole 91-2 (Sookochoff 1992).

Blanchflower, 1983 reports copper mineralization to occur in outcrop on the newly acquired Dam #19 claim and Hilton, 1998 reports copper mineralization to the north and east of Dam Lake in his prospecting. Several geologists report minor copper mineralization from diamond drill holes that are located within the present property boundaries. No economically significant intersections have been reported in any of the diamond or percussion drill holes.

Diamond Drilling Program

The current program of diamond drilling consisting of five NQ sized core holes took place on the Camp mineral claim from April 10 to June 2, 2000. The diamond drilling was done by Frontier Drilling Corp., 6000 Todd Road, Kamloops, B. C., V2C 5B8,using a Longyear 56


N
KEY
Road
L. 1600 E
5100 N
DDH 2000-3
DDH 2000-5
1500 E
DDH 2000-2
DDH 2000-1
Creek
Road
L. 1350 E
DDH 2000-4
4100 N
2050 E
DDH 92-12
Creek
DDH 93-1
DDH 92-14
DDH 92-13
Lake
Road
DAM 19
3050 E
L. 4500 N
DAM LAKE
CAMP
PROFESSIONAL ENGINEER
PROVINCE OF BRITISH COLUMBIA
J.R. DEIGHTON
DAM
J. R. DEIGHTON, P.Geo.
LAKEWOOD MINING CO. LTD.
WOOD GROUP
LOCATION MAP
DIAMOND DRILL HOLES
Drawn by: R.N.G.
Date: 9-6-00
FIGURE 4

diamond drill rig. The drilling took place under the direction of Mr C. Boitard, president of Lakewood Mining Limited. The total amount of drilling was 1417.93 metres in the five holes. Lakewood Mining Limited current address is 2245 West 13 Ave., Vancouver, B. C., V6K 2S4. John R. Deighton was contracted to log the diamond drill holes and to write an assessment report on the diamond drill program. The diamond drill holes were logged on four separate occasions on April 18 to 20, May 8 to 13, May 18 to 20 and May 31 to June 1, 2000. Logs for the five diamond drill holes numbered 2000-1 to 2000-5 are included in this report in Appendix A. The location of the holes are plotted on Figure 4 on the following page.

The diamond drill core was placed in wooden four channel core boxes as it came out of the core tube by the drill helper. Each box was numbered by felt pen with the hole number and box number of that hole. Each drill run of every hole was separated by a wooden block, which was marked with the footage interval at the end of the drilled interval. These wooden blocks footage markers were converted to metric markers and marked on the opposite side of the blocks by the logger of the hole and returned to there original position. Logging of the diamond drill core took place in the field near the position of the drill hole. Logging was conducted on the tale gate of the drill logger's truck and on sawhorses supplied by the logger. After logging and sampling the core the core boxes were cross-stacked on logs near to the appropriate drill hole in the field.

The diamond drill holes of the current program appear to be slightly more altered than reports of the previous drilling conducted on the property. All the holes contained strong prophylitic alteration and some sections weak to moderate phyllic alteration was observed. The exception to this would be Hole 2000-5 where only weak to moderate prophylitic alteration of the Nicola volcanics was observed.

A significant section of black argillite, +30 metres, was encountered in the bottom of Hole 2000- 4. Shorter sections of black argillaceous sediments were also intersected in the other holes in the 2000 drilling program. While the sediments appear to be associated with the Nicola Group volcanics they remind the author of the argilites of the Cache Creek Group.

Short sections of grey limestone were encountered in all the holes except Hole 2000-3. The largest section of limestone, two layers having a combined thickness of approximately 14 metres was intersected in Hole 2000-2.

A short section of olivine basalt was intersected in Hole 2000-5, which may be a dyke as it is fault boumded. Two short sections of light to medium grey fine grained or tuffaceous syenite were also intersected in this same hole. No sulphide mineralization was associated with either of these rock units.

White "bull" quartz was intersected in two holes, Hole 2000-2 and 2000-3. Minor sulphides were observed in these bodies. Sampling of the quartz and surrounding rock did not detect any mineralization with significant values.

Hydrothermal alteration and bleaching of the volcanics and volcanic sediments was detected in most of the drill holes but appeared to be strongest in Hole 2000-2. The least altered hole

was Hole 2000-5, where only short sections of hydrothermally altered rock was found in narrow, usually less than ½ metre, fault zones.

A total of ten (10) samples were collected from the diamond drill core. Each sample was of one half of the core from a specified section. The core was split with a core splitter supplied by Lakewood Mining Limited. One half of the split core was placed in a clean plastic bag along with a numbered sample tag supplied by Acme Analytical Laboratories Ltd. and the plastic bag was sealed with a plastic and wire tie. The second one half of the core was replaced in the core box in its original position. The sample number was recorded in the diamond drill log of the hole it came from in that section of the log the sample of rock came from. Duplicate numbered sample tags recorded the date of sampling, location, hole of the sampling, interval sampled and a brief description of the sample as well as to how and for what the lab was to assay the sample. The duplicate tags were delivered to Lakewood mining Limited for safekeeping.

The sealed and numbered core samples were transported to Vancouver by the writer and delivered to Acme Analytical Laboratories Ltd., 852 East Hastings Street, Vancouver, B. C., V6A 1R6. At Acme Analytical the writer filled out a request for analytical analysis for the samples. Acme Analytical prepared the samples for assaying and carried out the analysis of the samples. A copy of the preparation and analytical method used in assaying the samples along with a certified copy of the analysis are attached to this report and can be found in Appendix B.

None of the 10 samples assayed returned any values of economic significance, although several of the samples returned values that are anomalous in gold from 2.5 to 4.1 ppb and one sample with a anomalous value in barium 1077 ppm, sample 89260. This latter sample came from a 60cm section of 2% pyrite in a fault zone re-healed by carbonate and calcite. This sample also contained the highest gold value. Other anomalous gold samples, samples 89259, 89261-2, all came from fault zones with varying amounts of pyrite. Samples 89257-8 and 89253 came from silicified zones that contained quartz veins the latter with 5% pyrite. These anomalous results all show either large amounts of calcite-carbonate veining or quartz-carbonate veining. These anomalous results point to the fact that you must have quartz and or quartz-carbonate veining to have any chance of finding economic values.

Thus the drilling program shows that in the area of drilling there is very little likelihood of finding a porphyry deposit of any significance. This is not to say that the property, in areas away from the present drilling, may not contain an economic deposit.

Conclusions

The property is underlain by favourable geological stratigraphy. The Nicola Group volcanic rocks that may be intruded by bodies of comagmatic Sugarloaf and Cherry Creek phases of the Iron Mask Batholith.

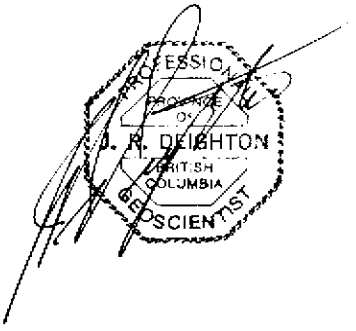
No economically significant mineralization has been discovered on the property with the drilling done to the present time.

Recommendations

Although no mineralization of economic significance has been found on the property, the claims cover favorable geological stratigraphy and warrant further exploration.

This further exploration would favour a planned program of grid line preparation followed by geophysical surveying, particularly I.P., which was the most effective method of detecting mineralization on the Afton property to the immediate north of this property.

Following the above geophysical surveying a drill program should be carried out to test and delineate any mineralization that may be indicated as occurring on the property.



CERTIFICATION

I, John Raymond Deighton, hereby certify that:

1. I am an independent Consulting Geologist with an office/ residence at 3250 West 33rd Avenue, Vancouver, British Columbia, Canada V6N 2G9

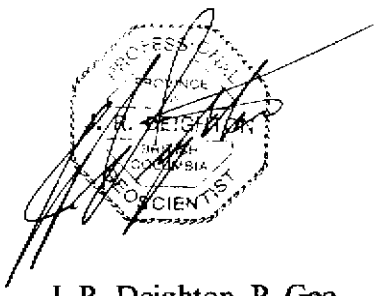
2. I am a graduate of the University of British Columbia with a degree of Bachelor of Science in Geology (1965).

3. I am a registered Professional Geoscientist in British Columbia (No. 20411) with the Association of Professional Engineers and Geoscientists of B. C.

4. I have practiced my profession in North America since 1965, having worked as an employee and consultant for several International Mining Corporations and Junior Resource Companies.

5. I have not, directly or indirectly, received or expect to receive any interest, direct or indirect, in the properties of Lakewood Mining Company Limited or any affiliates or of any property within a radius of ten kilometres of subject property, or beneficially own, directly or indirectly, any securities of companies or of any affiliates.

6. This report is based upon personal examination of all available reports on the property and a field examination of the property made on May 30, 1998 and May 31, 2000, as well as the time spent on the property while logging diamond drill core.



June 10, 2000
Vancouver, B. C.

J. R. Deighton, P. Geo.
Consulting Geologist

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APPENDIX A: Diamond Drill Logs

Hole 2000-1

Property: CAMP | Diamond Drill Record

Hole No. 2000 - 1 | Page # 1 of 12

Dip Test		
	Angle	
Meterage	Reading	Corrected

Date Started: APRIL 11 2000 | Lot: | Total Depth: 242.32
Date Finished: APRIL 18 2000 | Dip: -90 | Logged By: JRD
Bearing: | Core Size: NQ
Elev. Collar:

Depth	Description
0.0 - 21.34	OVERBURDEN
21.34 - 23.62	BROKEN ROCK PURPLISH ANDESITES
23.62 - 26.67	PURPLISH ANDESITES 1-2 mm SIZE FELDSPAR PHENOCRYSTS ANHEDRAL FORMS 10% OF ROCK MASS IN A PURPLISH (GREENISH) COLORED APHANITIC GROUNDMASS. THE WHOLE HAS BEEN CARBONATIZED TO SOME DEGREE WITH BRECCIATED CARBONATIZED PATCHES ADJACENT TO VEINS OF CARBONATE & CALCITE. VEINING GENERALLY 25° TO 70° TO C.A. WITH THE MOST PROMINENT VEINS BETWEEN 45° TO 60°. VEINS OCCUR EVERY 1-6 cm (VARYING COLORS MENTIONED) OCCASIONAL WEAK MAGNETITE FOUND DISSEMINATED IN SECTIONS.
26.67 - 35.51	FAULT ZONE - GOUGE AND BROKEN ROCK WITH OCCASIONAL SECTIONS OF CORE TO 10 cm LONG. GOUGE APPEARS TO HAVE CARBONATE VEINING AND PROBABLY IS 45° TO CA BUT ANGLES MAY OCCUR FROM 90°, 60° & 10° TO CA.
35.51 - 49.99	LIGHT GREEN FRAGMENTAL ANDESITES WITH PURPLISH AND GREENISH TINTS. FRAGMENTS mm TO CENTIMETRE cm ACROSS. MAJORITY OF FRAGMENTS ROUNDED TO SUB ROUNDED. PURPLISH AREAS MAY BE WEATHERING OF MAFIC MINERALS AND MAGNETITE WHICH APPEARS IRON AND STAINS THE ENCLOSING ROCK. ANDESITE 1-2 mm FELDSPAR PHENOCRYSTS IN ENHEDRITIZED MATRIX. FELDSPARS PARTIALLY ALTERED TO CLAY MINERALS. CARBONATE - CALCITE VEINING NOT AS PROMINENT AS IN ABOVE ZONES. VEINING NARROW AND OCCUR < 10cm

Property [ ] Diamond Drill Record

Hole No. [2000 - 1] Page # [2 of 12]

	ANDESITE VEINS 1-2 mm WITH OCCASIONAL VEIN TO 3 cm. DISSEMINATED MAGNETITE OCCURS IN SOME FRAGMENTS.
	49.68. 1 cm GOUGE 70° TO CA.
49.99 - 51.82	FAULT GOUGE WITH MINOR SECTIONS OF BROKEN ROCK AND SOLID ROCK SECTIONS TO 10 cm. ANDESITES AS ABOVE. ALTERATION TO CHLORITE & CLAY MINERALS MORE INTENSE. MAIN GOUGE OR SHEAR PLANES APPEAR TO BE 70° TO CA.
51.82 - 52.73	ANDESITE IS LIGHT GREEN - GREY DUE TO MODE ALTERATION CLAY ALTERATION CHLORITES AND MAFICS TO SERICITE AND CLAY MINERALS. AND FELDSPARS PARTIALLY OR COMPLETELY ALTERED TO CLAY MINERALS. CARBONATE VEINLETS WIDELY SPACED AT ~10 cm SMALL AND NARROW 1-2 mm.
	52.73 10 cm GOUGE & CRUSHED ROCK 70° TO CA.
52.73 - 71.63	DARK GREY GREEN FRAGMENTAL ANDESITES. ANDESITE FRAGMENTS ARE FELDSPAR PORPHYRIES WITH 1-2 mm OR LESS OF ALTERATION GROUNDMASS OF CHLORITE AND/OR CLAY MINERALS FROM ALTERED MAFICS AND FELDSPARS. FRAGMENTS FROM mm TO SEVERAL cm ACROSS ROUNDED TO SEMI ROUNDED. MAGNETITE OCCASIONALLY NOTED IN FRAGMENTS. WEAK CARBONATE - CALCITE VEINING 1-3 mm TO WIDER WITH MORE PROMINENT VEINS ~45° TO CA.
	54.31 - 54.56 GOUGE 60° TO CA., MINOR HEMATITE AND CARBONATE VEINS ON SLIP SURFACES
	58.70 1 cm SHEAR GOUGE & CARBONATE VEIN 65° TO CA.
	58.98 - 59.13 16 cm GOUGE & CRUSHED ROCK.

Property [ ] Diamond Drill Record

Hole No. [2000-1] Page # [3 of 12]

	59.50 CARBONATE SHEAR GOUGE 1 cm WIDE 55° TO CA.
	59.89 1 cm GOUGE & CARBONATE VEIN 45° TO CA
	60.96 10 cm FAULT GOUGE MINOR CARBONATE VEINS. 80° TO CA.
	61.32 - 61.69 CRUSH ZONE (GOUGE?) MINOR CARBONATE AT BOTTOM OF ZONE 2 cm CARBONATE VEIN AT 60° TO CA.
	63.61 1 cm CARBONATE VEIN & CHLORITE CRUSH ZONE MAY BE SECONDARY CHLORITE.
	67.82 - 68.03 CRUSHED ROCK, GOUGE, & BROKEN ROCK. SOME CARBONATE VEINING ZONE 70° TO CA
	68.43 - 68.64 GOUGE CRUSH ZONE, HEMATITE STAINING ON FRACT. 50° TO CA.
	68.94 - 69.19 HEMATITE STAINING & CARBONATE VEINING 50° TO CA.
71.63 - 72.45	FAULT GOUGE, CRUSH ZONE RECEMENTED BY CHLORITE & CARBONATE VEINING CLAY ALTERED & CHLORITIZED. BRECCIATED DARK CARBONATE & ALTERED CLAY. SOME APPLE GREEN SERICITE ASSOCIATED WITH CARBONATE 30° TO CA
	72.45 ZONE BASE 65° TO CA.
72.45 - 76.41	FRAGMENTAL ANDESITES. AS ABOVE 52.23 - 71.63 WITH SLIGHTLY MORE BROWNISH DISCOLORATION, ALTERATION & BLEACHING, CLAY ALTERATION & CARBONITIZATION. CARBONATE - CALCITE VEINING SLIGHTLY MORE INTENSE
	72.60 1 cm GOUGE 45° TO CA.

Property [ ] Diamond Drill Record

Hole No. 2000-1 Page # 4 of 12

	75.96 - 76.41 GOUGE AND BROKEN ROCK 45° TO CA
76.41 - 81.23	PURPLISH COLORED ANDESITES. WITH ANHEDRAL FELDSPAR PHENOCRYSTS 1 - 2 mm IN FINE GRAINED TO APHANITIC PURPLISH COLORED GROUNDMASS FELDSPARS PARTIALLY ALTERED TO CLAY MINERALS. SOME INTERVALS BANDS OF CARBONATE - CALCITE VEINING AND CARBONATIZATION - BRECCIATING AND SOME INTENSE CLAY ALTERATION. REMAINING CORE OUTSIDE ZONES OF ALTERATION ARE ONLY SLIGHTLY ALTERED (CLAY). PURPLISH COLOR IN PART BECAUSE OF MAGNETITE ALTERING TO HEMATITE AND SOME STAINING BY HEMATITE OF SURROUNDING ROCK
	76.81 10 cm INTENSE CARBONATE - CALCITE VEINING & VEIN BRECCIATION 45° TO CA
	79.25 - 79.86 - INTENSE CARBONATE - CALCITE VEINING AND VEIN BRECCIATION. STRONG CLAY ALTERATION & CARBONATIZATION 45° TO CA.
	81.23 - 5 CM. CARBONATE - CALCITE VEIN, SOME MINOR GOUGE 65° TO CA.
81.23 - 152.49	DARK GREEN ANDESITES. BROWNISH MOTTLED APPEARANCE IN PLACES AND WITH SOME PURPLISH COLORED PATCHES. FRAGMENTAL ANDESITES WITH FRAGMENTS MM TO SEVERAL CM ACROSS. FRAGMENTS ROUNDED TO SEMI ROUNDED. MOTTLED APPEARANCE APPEARS TO BE BECAUSE OF CONSTAINING OF FELDSPAR PHENOCRYSTS AND PLACE PHENOCRYSTS. MAFICS COMPLETELY ALTERED TO CHLORITE FELDSPARS PARTIALLY ALTERED TO CLAY. HEMATITE AND OCCASSIONALLY TO ANY GREEN SERICITE. DISSEMINATED MAGNETITE TO 1-3% DISSEMINATE GOUGE ALTERED TO HEMATITE. ANDESITE IN PLACES HAS THE APPEARANCE OF AN INTRUSIVE AND MAY BE A CRYSTAL TUFF. CARBONATE - CALCITE VEINING SPARCE. BROWNISH AREAS OR PATCHES ARE MORE ALTERED THAN GREENISH PARTS. AND MAGNETITE COMPLETELY ALTERED TO HEMATITE. SOME OF BROWNISH COLOR MAY BE DUE TO HEMATITE STAINING

Property [ ] Diamond Drill Record

Hole No. [ZM00 - 1] Page # [5 of 12]

	BROWNISH COLOUR ZONE ASSOCIATED TO INCREASE IN BOTTOM 1/2 OF SECTION. MAGNETITE INCREASES TO OCCASIONAL FRAGMENT OR MATRIX ASSIT.
	83.82 10 cm CARBONATE VEINING & MINOR GOUGE 70 & 50° TO CA
	84.52 1 cm SHEAR GOUGE 40° TO CA
	86.62 - 86.89 BROKEN CORE & SOME GOUGE 70° TO CA.
	8992 - 90.16 BROKEN CORE AND SEVERAL 1 cm GOUGE ZONES 70° TO CA
	90.37 1 cm GOUGE, 1 cm CARBONATE VEIN 65° TO CA
	91.16 - 91.65 GOUGE, BROKEN HEAVILY CLAY ALTERED CORE WITH 3 GANGE CARBONATE VEINS FROM 1 TO 5 cm THICK.
	92.35 GOUGE ZONE & CARBONATE VEIN 2 cm WIDE 18° TO CA
	98.42 BROKEN CORE FOR 5 cm SOME GOUGE 43° TO CA
	100.00 1 cm GOUGE 50° TO CA
	100.51 1 cm GOUGE 40° TO CA.
	100.58 CARBONATE-HEMATITE FRACTURE 50° TO CA.
	100.89 SHEAR PLANES 30° TO CA.
	102.23 - 102.47 - GOUGE & BROKEN ROCK AGAIN SOME FRACTURED CORE.
	102.84 1 cm GOUGE 45° TO CA.
	103.33 - 104.70 GOUGE & BROKEN CORE 50° TO CA.

Property [ ] Diamond Drill Record

Hole No. [ ] Page # [ ]

	105.16 1 CM GOUGE SLIP PLANE CARBONATE - CHLORITE VEIN 3 mm 45° TO CA.
	105.38 - 105.76 GOUGE & BROKEN ROCK, GOUGE AT 45° TO CA.
	106.45 GOUGE, HEAVY CHLORITE 30° TO CA.
	106.83 GOUGE CHLORITE SLIP PLANE 35° TO CA.
	107.01 - 107.06 GOUGE CHLORITE - CARBONATE VEINING, SLIP PLANES 30° TO C.A.
	107.65 GOUGE 1 CM CARBONATE VEIN 40° TO CA.
	108.20 CHLORITE - CARBONATE SLIP PLANE 20° TO C.A.
	109.12 - 109.73 HEAVY CHLORITE - CLAY ALTERED GOUGE FAULT & SLIP PLANES, SOME CARBONATE VEINING 30 & 45° TO CA
	110.03 - 110.25 CARBONATE - CALCITE VEINING 10° TO CA.
	111.98 CARBONATE VEINING 10° TO CA., 1-2 CM WIDE ALSO VERY MINOR GOUGE
	112.62 GOUGE SLIP PLANE & CARBONATE VEINING 50° TO CA.
	113.00 GOUGE (2cm) 60° TO C.A.
	113.69 - 114.60 GOUGE, BROKEN ROCK, FRAGMENTS TO 10 cm LONG, HEAVY CHLORITE, MINOR CARBONATE, SOME CLAY ALTERATION AND MINOR BLEACHING, SOME HEMATITE ON FRACTURES, SHEAR PLANES 20 - 45°, 30° TO CA GROUND CORE
	116.89 GROUND CORE, BROKEN ROCK, GOUGE?
	117.65 GOUGE, HEAVY CLAY ALTERATION, BLEACHED TO LIGHT GREEN COLOR, 2-3cm WIDE, 10° TO CA.
	118.08 - 5.06 cm OF HEALED GOUGE & SMALL FRAGMENTS OF ROCK, HEAVY CLAY ALTERATION,

Property [ ] Diamond Drill Record

Hole No. 2000 - 1 Page # 7 of 12

	1 cm CARBONATE VEIN 30° TO CA.
118.69	1 cm GOUGE, CLAY ALTERED AND CARBONATE VEINING 45° TO CA.
121.61	2 cm CARBONATE VEIN & MINOR GOUGE 53° TO CA.
121.72 - 123.35	GOUGE, CRUSHED ROCK HEAVY CLAY & CHLORITE ALTERATION, NUMEROUS HAIRLINE CARBONATE VEINS. TOP OF ZONE 60° TO CA BOTTOM 73° TO CA.
123.05	10 cm GOUGE, SOME CARBONATE VEINING 65° TO CA.
124.48 - 126.87	NUMEROUS CRUSH ZONES WITH LIGHT GREEN TO DARK GREEN CHLORITE - CLAY ZONES & HAIRLINE CARBONATE VEINS 20, 40, 50 & 70° TO CA. 70° ZONES MORE COMMON.
130.70 - 131.67	CRUSHED ROCK ZONE, MINOR GOUGE, SOME CARBONATE & HEMATITE FX. TOP OF ZONE 65° TO CA. SOME BROKEN ROCK, HEAVY CHLORITE AND/OR CLAY IN PLACES, SOME PLANES 30, 40 & 45° TO CA BOTTOM OF ZONE 45° TO CA
132.83	SHEAR, GOUGE ZONE 45° TO CA.
133.20	SHEAR, GOUGE ZONE 45° TO CA.
135.60 - 135.71	GOUGE 45° TO CA.
136.76	3 cm GOUGE, CRUSHED ROCK 60° TO CA.
137.06	1 cm SHEAR GOUGE 20° TO CA
139.60	SHEAR, CRUSHED ZONE, BROKEN ROCK 60° TO CA.
140.27	SHEAR, HEAVY CHLORITE 30° TO CA.
141.12	6 cm CRUSHED ROCK, HEAVY CHLORITE, SOME CARBONATE & CLAY MINERALS ZONE 50° TO CA.

Property [ ] Diamond Drill Record

Hole No. 2006 - 1 Page # 8 of 12

	141.73 10 cm CRUSHED ROCK, CLAY CARBONATE, MINOR, HEAVY CHLORITE 35° to 60° to CA.
	143.87 CRUSHED ROCK & CLAY CARBONATE, HEAVY CHLORITE 43° to CA.
	144.60 - 145.08 GOUGE, BROKEN ROCK, SHEAR ZONE, CLAY - CARBONATE ALTERATION & SOME BLEACHING 65 & 30° to CA. ALSO HEAVY CHLORITE COLD FRACTURES
	146.30 1 cm CRUSHED BLEACHED ROCK & CARBONATE VEINS 55° to CA.
	147.00 1 cm CRUSHED ROCK 70° to CA.
	148.97 1 cm GOUGE 38° to CA.
	147.35 - 149.65 GOUGE & CRUSHED ROCK, 1/2 cm CARBONATE VEIN, PARALLEL to CA.
	150.35 GOUGE & CRUSHED ROCK, 1 cm WIDE 10° to CA
	153.50 GOUGE 1 cm 50° to CA.
152.50 - 187.53	BROWNISH PORPHYRITIC FRAGMENTAL ANDESITE WITH DARK GREEN PATCHES TO A EXTENT. SOME VERY OCCASIONAL PATCH UP TO 5 cm OR LARGER GREEN OUT. NARROW CARBONATE VEINLETS, THROUGHOUT SOME WITH LOCAL GREEN CARBONATE. MAGNETITE FOUND IN CRYSTAL FRAGMENTS AND OCCASIONALLY IN MATRIX. BROWNISH AREAS POSSIBLE HEMATITE.
	156.36 HEMATITIC FRACTURE & GOUGE 1 cm 3° to CA
	161.31 - 161.57 BROKEN ROCK 20° to CA. FRACTURES COATED WITH CARBONATE. SOME SLICKENSIDES
	163.68 3 cm WIDE CARBONATE & GOUGE VEIN 51° to CA
	166.42 1 cm GOUGE FILM 90° to CA
	167.37 1 cm GOUGE ZONE 45° to CA

Property [ ] Diamond Drill Record

Hole No. 2000-1 Page # 9 of 12

	169.32 5 cm HEAVY CHLORITE GOUGE ZONE 50° TO CA.
	170.10 2 cm GOUGE ZONE 48° TO CA CARBONATE & CRUSHED ROCK, CLAY-CHLORITE ALTERED
	177.76 1 cm GOUGE ZONE, HEMATITE ON SLICKENS 43° TO C.A.
	174.77 LIGHT GREY CARBONATE FILLED SHEAR 1 cm
	176.90 1 cm GOUGE ZONE HEMATITIC 50° TO CA.
	179.80 GOUGE 1/2 cm 55° TO C.A.
	185.70 - 186.06 ALTERED ZONE, CARBONATE INTRODUCED, SOME CALCITE & GOUGE TOP OF ZONE 1 cm CARBONATE VEIN 60° TO CA. BOTTOM OF ZONE 2 TO 3 mm CARBONATE VEINS AT 45° TO CA. SHEAR ZONE IN CENTRE 55° TO CA.
	186.30 - 187.53 ALTERED ZONE WITH CARBONATE, CRUSHED ZONE, some pyrite & SOLID ROCK SOME CLAY ALTERED BLEACHED ROCK, LIGHT GREEN TO CREAM IN COLOR, SHEARING AND MAJOR VEINING 45° - 55° TO CA
187.53 - 202.92	PURPLE - BROWN ANDESITE, APPEARS TO BE FINER GRAINED WITH PHENOCRYSTS OF FELDSPAR 1 mm IN SIZE, OCCASIONAL ROCK FRAGMENTS BUT NOT AS FRAGMENTAL AS ABOVE. MINOR MAGNETITE OCCASIONALLY MAFIC PHENOCRYST ALTERED TO CHLORITE. 1-2 mm IN SIZE. INCREASE IN CARBONATE VEINING (2-5 cm APART) FORMING A WEAK CROSS-HATCHING. MOST VEINS APPEAR TO BE UNIDIRECTIONAL AT 40-60° TO CA - SOME HEMATITE DISSEMINATED AND ON FRACTURES (RARE)
	197.32 - 202.92 GOUGE ZONE 1 TO 10 cm WIDE SOME WITH CRUSHED AND SOLID ROCK AND LARGE 8 cm CARBONATE VEIN AND NUMEROUS SMALL CARBONATE VEINS. TOP & BOTTOM OF ZONE 60° TO C.A. AS DOES SHEARING & LARGE VEINS. ZONE ALTERED TO CLAY & MINOR CHLORITE PARTIALLY BLEACHED.
	202.92 - CONTACT ZONE, SHEAR CRUSHED & HEALED ZONE, GOUGE & CARBONATE VEINING 75° TO C.A.

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202.92 - 212.30	LIGHT TO DARK GREY FRAGMENTAL TUFF WITH CLASTS IN PLACES TO 1 CM IN DIAMETER. MOSTLY A FINE GRAINED TUFF WITH CLAST SIZES 1-2 mm (SANDY COMPOSITION) FRAGMENTS ROUNDED TO SEMI ROUNDED (80% FELDSPARS 20% MAFICS) CONTAINING LIMESTONE FRAGMENTS IN SECTIONS NEAR BASE
	204.00 1 CM GOUGE 75° TO CA.
	204.16 4 CM CRUSHED ZONE & CALCITE VEINING 85° TO CA.
	204.44 7 CM CRUSHED BLEACHED CLAY ALTERED ZONE, CARBONATE VEIN 85° TO CA.
	211.65 3 CM BLEACHED CLAY ALTERED ZONE, CARBONATE VEIN 75° TO CA
	205.85 3 CM QUARTZ CARBONATE VEIN 62° TO CA 1-2" QUARTZ VEIN SECOND
	206.62 SHEAR GOUGE 1 CM 73° TO CA.
	206.84 - 207.34 GOUGE & CLAY ALTERED BLEACHED ZONE 50° TO CA.
	212.37 CONTACT 60° TO CA. ON SLIGHT SHEAR.
212.32 - 226.16	LIMESTONE LIGHT GREY MASSIVE APHANITIC WITH SECONDARY CARBONATE - CALCITE VEINS. SOME OPEN SPACES ALONG FRACTURES OR VEINS INFILLED WITH CALCITE CRYSTALS IN SPOTS AND OCCASIONAL FINE GRAINED PYRITE. ALSO CONTAINS SHORT SECTIONS OF FRAGMENTAL VOLCANICS AND/OR AGGLOMERATES OR CONGLOMERATES. ALSO CALCULATED SECTION WITH SMALL INTRUDED? FELDSPAR PORPHYRITIC DYKE 5 CM WIDE
	213.97 PYRITE CARBONATE VEIN
	214.70 - 214.86 SHEAR ZONE, GOUGE, BROKEN ROCK, SOME CLAY 70° TO CA

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	217.02 10 cm CARBONATE VEIN
	217.77 - 218.92 INTRUSIVE FELDSPAR PORPHYRY DYKE ? BRECCIATED ON EDGES AND CONTAINING SOME FRAGMENTS OF ROUNDED TO SEMI ROUNDED LIMESTONE AND LARGE SHARP CHUNKS OF LIMESTONE AT BRECCIATED EDGES OF DYKE. ROUNDED & SEMI ROUNDED FRAGMENTS OF FELDSPAR PORPHYRY UP TO 2 cm ACROSS IN DYKE
	219.38 SHEAR 30° TO CA.
	219.38 - 219.76 CONGLOMERATE OR AGGLOMERATE MADE UP ALMOST ENTIRELY OF ROUNDED TO SEMI ROUNDED VOLCANIC FRAGMENTS AND SOME LIMESTONE FRAGMENTS. SOME CROSS FRACTURING HAS BROKEN FRAGMENTS AND MOVED THEM ALONG FRACTURE
	219.76 - 220.98 BROKEN AND BRECCIATED LIMESTONE, GOUGE AND CRUSHED OR BROKEN ROCK. SOME CARBONATE VEINING. SOME FRAGMENTS OF VOLCANICS. MANY FELDSPAR PORPHYRIES. BRECCIATION & AGGLOMERATE (INTO CA) HAS TAKEN PLACE. WITH 8 cm INTERSECTION OF FELDSPAR PORPHYRY DYKE. OCCASIONAL SPECK OF FRACTURE WITH PYRITE.
	222.20 15 cm CARBONATE VEIN
	222.60 - 222.89 BROKEN ROCK & LARGE CARBONATE VEIN. (BROKEN) SOME GOUGE.
	225.86 6 cm DYKE OF FELDSPAR PORPHYRY 30 - 45° TO CA.
	226.16 CONTACT 75° TO CORE AXIS

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226.16 - 230.42	FAULT ZONE LIGHT BROWN FELDSPAR PORPHYRY GOUGE ZONE WITH SHORT SECTIONS OF SOLID ROCK. GOUGE ZONES OR CRUSHED ROCK ZONES SHOW OR CONTACT WITH WATER, WIDELY SPACED CALCITE VEINS SOME OF WHICH HAVE HEMATITE STAINING ASSOCIATED. FELDSPAR PORPHYRY IS A CROWDED FELDSPAR WITH 1-3 mm FELDSPARS RANDOM IN GROUND AND CONTAINING 1 mm MAFIC PHENOCRYSTS MAKING UP 3-7% OF ROCK. SOME KIND OF BANDING 72° TO CA SHEAR EDGES ON SOLID ROCK SECTION WHICH MAKE UP 10-15% OF SECTION ARE 72° TO CA. GENERALLY 65-75° SHEAR PLANES THROUGHOUT MATRIX OCCASIONAL 30-35° SHEAR NOTED
	236.22 GROUND CORE
230.42 - 242.32	PINK BROWN AND GREEN ANDESITE FRAGMENTAL WITH MUD MATRIX AND FRAGMENTS A FELDSPAR PORPHYRY. FRAGMENTS TO SEVERAL CM ACROSS AND MOST ROUNDED TO SEMI ROUNDED. ALTHOUGH SOME SMALLER FRAGMENTS OF DARKER GREEN ANDESITE AND ANGULAR FELDSPAR PHENOCRYSTS IN FRAGMENTS & MATRIX (40% BY VOLUME) ARE UP TO 5 mm LONG IN A GREENISH GROUNDMASS. VERY WEAK CLAY ALTERATION THROUGHOUT MAFICS ALTERED TO CHLORITE. FELDSPARS MAINLY FRESH, EUHEDRAL & ANHEDRAL WITH SOME RIMMING ON SOME PHENOCRYSTS (ZONING) CARBONATE VEINS ARE NARROW & SPARCE. 1-3% MAGNETITE OR HEMATITE DISSEMINATED THROUGHOUT FRAGMENTS AND MATRIX
	239.21 1 cm GOUGE 70° TO CA.
	239.33 2 cm GOUGE & 2 CARBONATE VEINS 1/2 cm. WIDE 65° TO CA. MINOR QUARTZ
	239.54 - 4 cm GOUGE & MINOR CARBONATE VEINING
	240.85 - 3 cm GOUGE & QUARTZ CARBONATE VEIN IC.
	241.71 - 241.86 CLAY ALTERED GOUGE ZONE 50° TO CA
	242.32. E.O.H.

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Dip Test		
	Angle	
Meterage	Reading	Corrected

		Lot		Total Depth	342.90
Date Started	April 17 2000	Dip	-90	Logged By	J R D[illegible]
Date Finished	April 29, 2000	Bearing	—	Core Size	NQ
		Elev. Collar			

Depth	Description
0 - 30.48	OVERBURDEN.
30.48 - 65.02	PURPLISH BROWN ANDESITE. FINE GRAINED ANHEDRAL CRYSTALS MUSH WITH ~40% MAFICS 60% WHITISH-GREY FELDSPARS. MAFICS ALTERED TO CHLORITE. ANDESITE CUT BY NUMEROUS CALCITE - CARBONATE VEINS & VEINLETS. ANDESITES CONTAIN UP TO 3% MAGNETITE - SOME ALTERATION OF MAGNETITE TO HEMATITE AROUND EDGES OF CRYSTALS AND ADJACENT TO FRACTURES. MINOR PYRITE <1% NOTED IN PLACES. ANDESITE HAS PATCHY APPEARANCE IN PLACES WITH PURPLISH-BROWN ANDESITE (ALTERATION PRODUCT OF MAGNETITE → HEMATITE AND STAINING?) OR DARK GREEN ANDESITES. SOME MINOR FRAGMENTAL SECTIONS OR AGGLOMERATE SECTIONS UP TO 1 M.
	OXIDATION TO 34.29 - LIGHT YELLOW BROWN
33.4 - 34.07	GOUGE AND BROKEN ROCK 37° TO CA.
	45.64 - 45.94 BROKEN & CRUSHED ROCK, GOUGE 45° TO CA.
	46.38 - 46.42 BROKEN & CRUSHED ROCK GROUND CORE
	48.0 - 1 cm GOUGE 70° TO CA.
	49.40 - 49.50 GOUGE. 55° TO CA
	54.30 - 54.49 HEALED FAULT ZONE BY CARBONATE VEINING 55° TO CA
	55.6 5 cm GOUGE 67° TO CA.
	58.50 5 cm GOUGE 60° TO CA.
	59.0 - 59.30 GOUGE & BROKEN ROCK SOME GROUND CORE GOUGE 45° TO CA.
	SOME SLIP PLANES AT 35° TO CA.
	61.60 - 61.80 GOUGE 57° TO CA.
	63.6 2 cm GOUGE & BROKEN ROCK 30° TO CA WITH CALCITE VEIN.

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65.02 - 78.50	AGGLOMERATE ANDESITE - GREEN & PURPLISH AGGLOMERATE OR VOLCANIC CONGLOMERATE WITH MINOR FINE GRAINED INTERLAYERS OR CRYSTALLINE LAYERS ~ 20° TO CA. AGGLOMERATE FRAGMENTS UP TO 4 cm ACROSS IN A FINE GRAINED OR CRYSTALLINE MATRIX. FRAGMENTS MAY BE ANGULAR TO ROUNDED. MAJORITY OF FRAGMENTS LESS THAN 1 cm ACROSS AND ARE USUALLY SEMI ROUNDED TO ROUNDED. SOME FRAGMENTS MAY CONTAIN UP TO 3-5% SULFIDES. WHILE MATRIX GENERALLY CONTAINS < 1% SULPHIDES. PURPLISH COLOUR APPEARS TO BE BREAKDOWN OF MAGNETITE TO HEMATITE AND STAINING OF ROCK ADJACENT TO MAGNETITE BREAKDOWN. ROCK IS MAGNETIC AND MAY CONTAIN UP TO 5% MAGNETITE AND OR HEMATITE. MAFICS ARE ALTERED TO CHLORITE. FRAGMENTS ARE ALL VOLCANIC. CALCITE - CARBONATE VEINING MODERATE WITH VEINS UP TO 3 cm WIDE BUT GENERALLY 1-3 mm. VEINING NOT QUITE AS STRONG AS IN ANDESITES ABOVE.
	65.85 10 cm GOUGE WITH CARBONATE VEIN TOP SIDE AND HEMATITE STAINED CARBONATE ON SLIP FACE 40° TO CA
	66.85 CARBONATE SLIP VEIN 1 cm AND MINOR GOUGE 37° TO CA
	67.80 - 68.10 GOUGE & BROKEN ROCK HEMATITE SMEARS ON SOME SLIP SURFACES. GROUND CORE
	72.40 3 cm CARBONATE VEIN 35° TO CA SOME PINKISH CARBONATE
	73.85 - 74.05 SLIP PLANES TOP 30° TO CA. BROKEN & CRUSHED ROCK IN SECTION
	77.30 1 cm GOUGE & 1 cm CARBONATE VEIN 70° TO CA
	77.72 3 cm TO 0.6 cm CARBONATE VEIN 30° TO CA
	78.50 CONTACT 60° TO CA.
78.50 - 95.10	TUFF ANDESITE - DARK GREEN TO MOSTLY FAIRLY GREEN & MEDIUM PURPLE DUE TO STAINING AND ALTERATION OF MAGNETITE TO HEMATITE AND STAINING OF ROCK. ANDESITES CONTAIN 3-5% MAGNETITE AND/OR HEMATITE. REDDISH PURPLE ANDESITE LESS MAGNETIC THAN GREEN ANDESITES. ANDESITES ARE PROBABLY A CRYSTAL TUFF WITH THE OCCASIONAL ANGULAR FRAGMENT OF ROCK TO 3-4 cm BUT USUALLY 1-2 cm IN SIZE. CARBONATE - CALCITE VEINING WEAK. ALL MAFICS ARE ALTERED TO CHLORITE. CALCITE VEINING 1 mm TO 1 cm IN WIDTH

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	81.40 - 85.36 FAULT ZONE CRUSHED ROCK, GOUGE, BROKEN ROCK SECTIONS, MIXED CRUSHED ROCK & GROUND CORE. CALCITE VEINING & VUGGINESS IN MIXED SECTIONS. GOUGE ZONE 35° TO CA. AS IS CALCITE VEINING
	86.40 SOLID FAULT 10° TO CA.
	87.72 SOLID FAULT SURROUNDS & CRUSHED ROCK 30° TO CA.
	87.86 10 cm CRUSHED & BROKEN ROCK CALCITE VEINING 30 & 45° TO CA
	93.90 1 cm FAULT GOUGE 60° TO CA.
	95.10 CONTACT, GOUGE & BROKEN ROCK 5 cm AT 60° TO CA.
95.10 - 109.29	ALTERNATING BANDS OF PHYSICAL TYPES AND ACCUMULATIONS DESCRIBED AS DARK BROWN & LESS MAGNETIC THAN SECTIONS ABOVE PARTLY 1 - 3% MAGNETITE AND/OR HEMATITE MORE MAGNETITE IN CRUSHED SECTIONS AND MORE HEMATITE IN BROKEN SECTIONS. MAGNETITE → HEMATITE IN BROWNISH SECTIONS. CARBONATE VEINING. POOR TO MODERATE WITH CARBONATE VEINS UNDER 1 cm AND 2 - 5 mm IN WIDTH. ALL VEINS TO CALCITE. VG OCCASIONAL SPECK OF PYRITE.
	102.56 3 cm GOUGE 65° TO CA
	103.95 - 104.20 GOUGE FAULT ZONE AND BROKEN ROCK, 3 cm CARBONATE VEIN 35° TO CA. MORE SCATTERED HAIRLINE CARBONATE VEINING IN ZONE.
	105.94 CARBONATE CEMENTED GOUGE & BROKEN ROCK ZONE 5 - 7 cm WIDE 30° TO CA.
	106.52 5 cm GOUGE ZONE 45° TO CA. ABOVE FAULT PUR 23 cm HEAVY CARBONATE VEINING. 10, 30 & 40° TO CA
109.29 - 110.36	FAULT - FAULT GOUGE & SATURATION OF ANDESITE TUFF, GOUGE ALTERED TO LIGHT BUFF CLAY BLEACHED & TRACE ALTERED TO SERICITE & KAOLIN MINERALS RARE PYRITE - CARBONATE VEINING. TUFF SECTION BUFF - BROWN IN COLOR. NOT AS WHITE ALTERED. MAGNETITE → HEMATITE. GOUGE ZONE APPEARS TO HAVE BEEN HYDROTHERMALLY ALTERED TO CLAY. TOP OF ZONE 60° TO CA.

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110.30 - 130.50	ANDESITE TUFFS & AGGLOMERATES. BROWNISH IN COLOUR. WEAKLY MAGNETIC IN PLACES. 2-3 % MAGNETITE ± HEMATITE. BROWNISH COLOUR BECAUSE OF CHANGE OF MAGNETITE TO HEMATITE AND STAINING OF ADJACENT ROCK TO BROWNISH COLOUR. AGGLOMERATE FRAGMENTS ROUNDED TO ANGULAR. GENERALLY LESS THAN 2 CM ACROSS. ANDESITIC [illegible] LARGER FRAGMENTS TO 5-6 CM ACROSS. CALCITE - CARBONATE VEINING MODERATE TO STRONG IN SECTION. FROM HAIRLINE TO 2 CM IN WIDTH. OCCASIONAL APPEARANCE OF APPLE GREEN SERICITE PATCHES ADJACENT TO SOME CALCITE - CARBONATE VEINS.
	111.00 - BROKEN ROCK & MINOR GOUGE. ROCK CLAY ALTERED ON FAULT & CALCITE VEINING PRESENT
	117.25 - 3 CM OF CLAY ALTERED GOUGE 45° TO CA.
	123.40 - SLIP PLANES 45° TO CA. LIGHT APPLE GREEN CARBONATE ON SLIP PLANE. SOME SLICKENSIDES.
130.50 - 132.62	FAULT - GOUGE WITH SECTIONS OF PURPLISH - BROWN ANDESITES AS ABOVE. CRUSHED CARBONATE VEINS & HEMATITE STAINED IN PLACES. [illegible] SLIGHTLY BLEACHED & CLAY ALTERED TOWARDS BASE AND BASE IS CONTACT ZONE WITH UNIT BELOW. TOP OF ZONE 67° TO CA. BOTTOM OF ZONE 70° TO CA.
132.62 - 152.87	LIMESTONE ARENITE - LIGHT GREY, WEAKLY BLEACHED TOWARDS BOTTOM OF SECTION & REHEALED BY CARBONATE VEINS CONTAINING SOME QUARTZ & MINOR PYRITE. THIS UNIT APPEARS TO BE A UNIFORM ARENITE TO FINE GRAINED, MASSIVE LIMESTONE. GENERALLY ARENITE IS FINE GRAINED BUT MAY INCLUDE SOME AGGLOMERATE OR CONGLOMERATE - COARSE SANDY SECTIONS WITH CLASTS OR FRAGMENTS TO 1 CM. BEDDING & BANDING 65° TO CA. TOP OF SECTION FOR 0.5 M CONTAINS TWO 1-3 CM CRUSH ZONES 65° TO CA. BOTTOM OF ZONE APPEARS TO HAVE A CHILLED MARGIN 60° TO CA.

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	134.50 - 4 cm vein of carbonate - quartz minor pyrite very fine grained 57 to CA.
	136.20 - 136.25 - Rock brecciated by open spaced calcite veins.
	138.87 - 138.50 crushed & healed gouge sequence attached to a light [illegible] which rock fragments [illegible] zone to [illegible] zone appear to be 75° to CA.
	139.50 - 140.65 - Broken rock may be shear gouge. Carbonate - quartz veining and or brecciation with 1% pyrite as [illegible] in section.
	141.20 - 141.28 quartz carbonate vein with 5% fine grained pyrite and ~5% very fine grained bluish sulphide which may be pyrite [illegible] 65° to CA.
	142.0 - 142.70 Moderately intense zone of carbonate - quartz veining containing [illegible] fine grained pyrite and occasional cube or larger crystalline pyrite - zone may also be slightly silicified as it appears a bit harder than surrounding rock. SAMPLE 89264
	146.30 - 143.37 Shear gouge & carbonate veining 40° to CA
	146.37 - 147.00 Buff to reddish purple agglomerate gouge [illegible] 60° to CA.
	147.00 - 147.40 Carbonate - quartz veining & brecciation minor pyrite
	149.57 - 149.29 Gouge 53° to CA.
	152.37 - 3 cm gouge ∠52° to CA
	152.87 contact 65° to CA.
152.95 - 203.45	Agglomerates & tuffs dark green [illegible] to lighter green at 157.00 m and to mixed green [illegible] & purplish at 160.00 m. Rock fragments all various andesites finegrained to porphyritic varieties & various colours & magnetism - hematite. Fragments up to 10 cm across: approx

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TO BE CRUDE BANDING OR BEDDING IN PARTS ANDESITE MAINLY FELDSPAR 70% ≥ 10% CHLORITE AFTER MAFICS ALL PROBABLY ALTERED TO SAUSSURITE AT VARIOUS QUANTITY WEAK CARBONATE VEINING VERY WEAKLY MAGNETIC MAINLY PURPLISH AGGLOMERATE AFTER 182.35 m.

152.95 - 153.02 GOUGE ZONE 60° TO CA.

157.00 - 157.15 - GOUGE ZONE WITH CARBONATE VEIN TOP OF SECTION 65° TO CA. ZONE CHLORITE TO GREY ANDESITE TO LIGHT GREEN IN COLOUR

157.40 CRUDE BEDDING OR BANDING 65° TO CA.

164.50 - 165.20 - CRUSHED ROCK & GOUGE PROBABLY AT 35° TO CA. ?

166.12 - 166.22 CRUSHED ROCK & GOUGE 10 & 35° TO CA

174.54 - 174.94. CRUSHED ROCK SOME SLICKENSIDES AT BOTTOM 35° TO CA.

176.83 - 176.92 CRUSH ZONE & GOUGE 35° TO CA

183.35 3cm SHEAR 35° TO CA.

184.40 2cm WIDE BLEACHED ZONE BLEACHED SERICITE & CHLORITIZED ? TRACE Py.

199.20 - 199.83 CRUSHED ROCK GOUGE 42° TO CA

202.40 - 202.69 CRUSHED ROCK & GOUGE 62° TO CA

204.00 5cm CRUSHED ROCK 60° TO CA.

205.20 3cm CRUSHED ROCK 60° TO CA

206.15 1cm SHEAR 45° TO CA.

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213.45 - 220.98	CHAOTIC ZONE LIMESTONE, BRECCIATED LIMESTONE AND LIMESTONE CEMENTED CONGLOMERATES AGGLOMERATES, CARBONATE VEINS AS WELL AS WELL ROUNDED LIMESTONE FRAGMENTS WITH SHORT SECTIONS OF VOLCANIC AGGLOMERATES PURPLISH TO GREEN IN COLOUR IN A FINE GRAINED COMPLETELY SAUSSURITIZED CRYSTAL MUSH CONTAINING 5-8 % MAGNETITE AND/OR HEMATITE WHERE MAGNETITE → HEMATITE. FRAGMENTS OF VOLCANICS UP TO 15 CM ACROSS, USUALLY WELL ROUNDED WHEREAS LIMESTONE FRAGMENTS MAY BE ANGULAR TO WELL ROUNDED SOME HAVING RIMS OF SECONDARY CARBONATE. SECTIONS FROM ~~[illegible]~~ MAY CONTAIN 70 - 60 % LIMESTONE - CARBONATE FRAGMENTS, WHILE OTHERS MAY CONTAIN NO LIMESTONE FRAGMENTS AND CONTAIN ONLY ANDESITE VOLCANIC FRAGMENTS. COLOUR MAY VARY FROM CREAMY WHITE → GREENISH → PURPLISH AND MIXTURES OF ALL THREE. UPPER CONTACT 32° TO CA. LOWER CONTACT 80° TO CA. ON CARBONATE VEIN.
	215.70 - 215.80 CRUSH - GOUGE ZONE 80° TO CA.
220.98 - 237.60	VOLCANIC AGGLOMERATE - GREEN TO PURPLISH SECTIONS WHERE ALTERED SAUSSURITIZED AND BLEACHED TO BOTTOM OF SECTION AND IS PROBABLY GRADATIONAL WITH SECTION BELOW. FRAGMENTS TO 15 CM MAY CONTAIN ORIGINAL [illegible] PYROX. FRAGMENTS ALL VOLCANIC AND CONTAIN VARIOUS DEGREES OF ALTERATION FROM CHLORITE - SAUSSURITIZED TO SAUSSURITIZED CARBONATE [illegible] WEAK TO MODERATE
	226.50 - 227.00 LIGHT CREAM COLOURED APHANITIC DYKE WITH CHILLED MARGINS. MAY BE RHYOLITIC. COMPLETELY SAUSSURITIZED TO CLAY MINERALS, 75° TO CA.
	227.52 - 228.40 FAULT ZONE CRUSHED ROCK, GOUGE & SOLID ROCK SECTIONS UP TO 30 CM. SHEARS APPEAR TO BE 45° TO 60° TO CA.
	227.78 - 227.92 - CRUSHED ROCK GOUGE 70° TO CA
	230.10 1 CM GOUGE ZONE 60° TO CA WITH HEMATITE STAIN
	230.55 - 231.40 GOUGE & CRUSHED ROCK

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	235.07 - 235.30 CRUSHED & SOFT ROCK. SHEAR GOUGE ZONES (2, 3) 70° TO CA?
237.60 - 245.10	LIGHT TO MEDIUM GREY APHANITIC TO FINE GRAINED MUDSTONE WITH MINOR SANDY MUDSTONE SECTIONS, NO SULPHIDES PRESENT, MINOR SILICIFICATION IN SOME SECTIONS OF FINE GR. MUDSTONE. ROCK HAS [illegible] ROCK IN PLACES HAS BRECCIATED APPEARANCE WHILE IN OTHERS TAKES ON ALMOST BEDDED APPEARANCE AS AT 241.85 m WHERE FRAGMENTS WITH INCREASING FRAGMENT SIZE OCCUR BETWEEN 241.00 & 243.00 m. ALMOST APPEARS THAT SOME IS SECTION OF SANDY MUDSTONE CLASTS BETWEEN SOME FRAGMENTS IN APPARENT BRECCIATION. BLACK [illegible] FRAGMENTS ARE VERY ANGULAR. CARBONATE NETWORK IS [illegible]. BECOMES CONGLOMERATE AGGLOMERATE AFTER 241.60
	242.80 - 243.85 HIGHLY SAUSSURITIZED & BLEACHED SECTION. NARROW GOUGE ZONE AT 243.50. UNKNOWN ANGLE. IRREGULAR RHYOLITE? DYKE HIGHLY SAUSSURITIZED 243.07 - 243.24, 243.50 - 243.60, 243.70 - 243.80
	245.10 LOWER CONTACT OF 3 cm ZONE OF SAUSSURITIZATION & CARBONATE 70° TO CA.
245.10 - 249.00	DARK TO MEDIUM GREEN FINE GRAINED TUFF ANDESITE WITH OCCASIONAL BAND OF BLACK APHANITIC ORGANIC SEDIMENT. MODERATE TO STRONG NARROW CARBONATE VEINING. (ARGILLITE ORGANIC SEDIMENT) AT 246.74 - 246.78, 246.55 - 246.58, 248.70 - 249.00
249.00 - 252.40	MIXTURE OF VOLCANIC AGGLOMERATE & FINE GRAINED DARK GREEN TUFFS WITH BANDS OF BLACK ORGANIC SEDIMENTS (ARGILLITE) BEDDING ON BANDS OF ARGILLITE 70° TO CA. SOME CLASTS OF ARGILLITE IN AGGLOMERATE BANDS. CARBONATE VEINING MODERATE TO STRONG IN NARROW 1-5 mm VEINS.
	252.40 LOWER CONTACT 78° TO CA

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252.40 - 257.25	MAINLY BUFF COLOURED SANDY TO PEBBLE SIZE VOLCANIC AGGLOMERATE OR CONGLOMERATE WITH OCCASIONAL GREENISH AGGLOMERATE SECTION AT BEGINNING. ALSO CONTAINS MINOR BANDS OF BLACK ARGILLITE 3 cm SECTION 252.77 m. 75° TO CA. BUFF COLOURED SECTIONS ARE COMPLETELY SAUSSURITIZED TO CLAY MINERALS ALTHOUGH STILL HARD AND COMPETENT.
	257.25 LOWER CONTACT IRREGULAR AND LOOKS BROKEN AS IF LOWER UNIT HAS BEEN SCOURED.
257.25 - 262.57	VOLCANIC SEDIMENTS - VERY FINE GRAINED BLACK & BUFF COLOURED SEDIMENTS CUT BY OCCASIONAL CARBONATE VEINS. BEDDING ANGLES BETWEEN 60 TO 75° TO CA. BEDDING BROKEN BY CROSS CUTTING CARBONATE VEINS AND / OR HEALED BRECCIA FAULT ZONES (LESS THAN 1 mm WIDE). BUFF COLOURED LAYERS SOFT + COMPLETELY SAUSSURITIZED TO CLAY MINERALS BELIEVE DUE TO BE HYDROTHERMAL ALTERATION.
262.57 - 265.57	HIGHLY ALTERED ZONE OF HYDROTHERMAL ALTERATION. UPPER CONTACT SHARP AND MAY BE A DYKE OR SILL OF RHYOLITE MUD OR A SILICEOUS MATERIAL SANDY TUFF WHICH ALLOWED HYDROTHERMAL FLUIDS TO BREACH TO [illegible] UPPER CONTACT 50° TO CA. BUFF COLOURED MATERIAL WHICH INCLUDES SOME FINE GRAINED OR ARGILLITE SEDIMENTS COMPLETELY SAUSSURITIZED TO CLAY MINERALS. SOME SMALL 1 cm CAVITIES NOTED IN SECTION SOME FILLED WITH A FINE MUD (MAY BE DRILL MUD) MINOR SHEARING & GOUGE ZONES IN SECTION WHICH MAY BE CONDUITS FOR HYDROTHERMAL FLUIDS WHICH ALTERED & BLEACHED SEDIMENTS. MINOR SECTIONS OF BLACK OR DARK BROWN ARGILLITE SEDIMENTS TO 7 cm. BRECCIATION & ROTATION OF SOME SEDIMENTS NOTED BUT RECEMENTED. LOWER CONTACT GRADATIONAL & RAGGED WITH UNDERLYING UNIT. QUARTZ CARBONATE VEIN 1 cm WIDE @ 265.30. VERY MINOR PYRITE SEEN IN ONE SPOT.
	263.28 GOUGE ZONE 2 cm.

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265.57 - 270.20	SLIGHTLY SILICIFIED ANNEALED SEDIMENTS DARK GREY IN COLOUR. MASSIVE AND IN SOME AREAS OF STRONGER SILICIFICATION HAS ELONGATED VUGS OR CAVITIES WHICH MAY BE ASSOCIATED WITH BEDDING AND/OR BRECCIATED AREAS. SHORT 20 CM ZONE OF WHITE QUARTZ CALCITE BRECCIA ZONE WITH OPEN CAVITIES TO SEVERAL CM. ALSO APPEARS TO BE SOME WHITE PATCHY QUARTZ CARBONATE AREAS AS IF AREA MILLED & RECEMENTED AND SLIGHTLY SILICIFIED. SOME REHEALED BRECCIATED ZONES. NO SULPHIDES OBSERVED.
	270.20 LOWER CONTACT 68 TO C.A. ON CLAY SEAM.
270.20 - 272.47	HIGHLY [illegible] ZONE WHERE CRUSHED COMPLETELY HYDROTHERMALLY ALTERED TO SOFT CLAY MINERALS SO AS TO SEEM THAT IN PLACES THE ZONE IS A MUD (COMPACTED). CAN CUT CORE WITH A KNIFE. SHORT 30 CM SECTION OF LIGHT GREY SILICIFIED SEDIMENTS IN CENTER OF ZONE. GOUGE ZONES MAY BE PRESENT BUT ARE NOT DETECTABLE. THIS IS PROBABLY A FAULT ZONE THAT HYDROTHERMAL FLUIDS MIGRATED.
	UPPER CONTACT 60° TO C.A.
	LOWER CONTACT 35° TO C.A.
272.47 - 276.00	MIXTURE OF SILICIFIED VOLCANIC SEDIMENTS (BASIC ARGILLITES) AND GREENISH COLOURED CRYSTAL TUFFS CHLORITIZED AND SILICIFIED IN PART CUT BY WHITE QUARTZ - CARBONATE VEINS UP TO 22 CM WIDE. QUARTZ VEIN CUT ZONE AT 60° TO C.A. PERVASIVE SILICIFICATION THROUGHOUT ZONE. ANOTHER ARGILLITE [illegible] SILICIOUS & [illegible] CRYSTAL TUFF ZONES. CRYSTAL TUFFS MAKE UP ~ 60% OF ZONE AND [illegible] OF ZONE. GRADATIONAL WITH NEXT ZONE BUT ARBITRARILY PUT AT A ½ CM QUARTZ VEIN 35° TO C.A. AT 276.00 M. [illegible] DISSEMINATED PYRITE. OVERALL SULPHIDE CONTENT OF ZONE < 1% PYRITE.
	272.47 - 273.90 SAMPLE 89254
	275.50 - 276.50 SAMPLE 89255
	281.20 - 283.00 SAMPLE 89256

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276.00 - 286.76	BLEACHED SILICIFIED, [illegible] AND SERICITIZED [illegible] IN PLACES. CRYSTAL TUFFS AND [illegible] TO SANDY AGGLOMERATES WITH SILICIFIED SECTIONS ADJACENT TO QUARTZ CARBONATE VEINS WHITE IN COLOR. MINOR DARK ANDESITES CENTRALLY IN MED SILICIOUS ZONES WITH WHITE QUARTZ CARBONATE VEINS. SECONDARY QUARTZ VEINS CROSS CUTTING EARLIER QUARTZ - CARBONATE VEINS ARE VUGGY AND CONTAIN CRYSTALLINE PYRITE IN FRACTURES AND FINER GRAINED PYRITE ADJACENT TO VEINS. THESE VEINS ARE WIDELY SPACED AND CUT CORE AT LOW ANGLES TO 30° TO CA. EARLIER [illegible] QUARTZ - CARBONATE VEINS CUT CORE FROM 60 TO 75° TO CA. OCCASIONAL SPECK OF APPLE GREEN SERICITE SEEN IN TUFFS. OCCASIONAL LIGHT GREEN SERICITE - CARBONATE AND OCCASIONALLY QUARTZ VEIN CUTTING CORE AT 60-70° TO CA. SECTION BECOMES GENERALLY LESS SILICEOUS DOWN HOLE EXCEPT IN SILICIFIED ZONES OR NEAR VEINS.
	281.24 - 281.75 SILICEOUS ZONE WITH WHITE QUARTZ CARBONATE VEINS AND SILICIFIED AGGLOMERATE. SILICIFICATION PERVADES INTO ADJACENT CRYSTAL TUFFS BUT DECREASES RAPIDLY. CROSS CUTTING QUARTZ - CARBONATE VEINS WITH PYRITE.
	286.76 LOWER CONTACT SHARP WITH RED-BROWN ANDESITES AT 37° TO CA.
286.76 - 301.00	RED BROWN ANDESITES CRYSTAL TUFFS AND AGGLOMERATES. SAUSSURITIZED FELDSPARS. CONTAINING BLEACHED SECTIONS UP TO 1/2 M WHERE THE ANDESITES HAVE BEEN BLEACHED TO A LIGHT BROWN TO [illegible] COLOR & OCCASIONALLY CONTAIN PINKISH STREAKS AND SOME QUARTZ CARBONATE VEINING & SILICIFICATION. VEINING GENERALLY APPEARS TO BE 55° TO CA BUT CAN VARY SO THAT THE ZONES CONVERGE AT THAT ANGLE [illegible] [illegible] BLEACHED ZONE, QUARTZ CARBONATE VEINING WEAK TO MODERATE. SULPHIDES ARE ABSENT.
	293.16 - 293.60 PALE SILICEOUS QUARTZ [illegible] ZONE 45° TO CA. WITH BRECCIATION HEALED BY QUARTZ - CARBONATE

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	275.00 - 5 cm GOUGE 35° to CA.
	285.20 - 301.00 GOUGE, CRUSHED ROCK WITH SOLID ROCK SECTIONS AND SOME SHEARED ZONES & QUARTZ [illegible] to CA [illegible] SECTIONS. NO SULPHIDES SEEN. [illegible] SECTION 10 cm @ 287.0 [illegible]
301.00-342.90	DARK GREEN ANDESITE FLOWS? AND AGGLOMERATE WITH FAULTING AND WEAK BRECCIATING UP TO 2 cm, CARBONATE VEINING WEAK-MODERATE. SOME FAULTED GOUGE SECTIONS MEDIUM BROWN IN COLOUR AND INCLUDING MEDIUM BROWN SECTION OF ANDESITE. FAULTING AND SHEARING PREVALENT IN SECTION MOST OF WHICH APPEARS TO BE 70-90° to CA. VEINING WEAK TO MODERATE.
	302.00 - 314.10 STRONG FAULTING & GOUGE ZONES WITH SHORT SECTIONS OF SOLID CORE
	302.00 5 cm SHEARED ZONE
	316.48 - 316.70 CRUSHED ROCK & GOUGE
	318.25 - 318.32 GOUGE & CRUSHED ROCK
	319.25 - 319.56 GOUGE & CRUSHED ROCK
	321.15 - 321.70 GOUGE & CRUSHED ROCK QTZ CARB VEIN 1 cm 30° to CA.
	323.33 - 323.68 GOUGE & CRUSHED ROCK 67 to CA.
	328.52 - 328.85 CRUSHED ROCK & 2 cm QTZ CARB VEIN ROUGHLY [illegible] 20° to CA
	334.02 - 334.15 & 334.32 - 334.53 BLEACHED & SAUSSURITIZED ZONES SOME GOUGE 45° & 90° to CA
	342.90 E.O.H.

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Dip Test		
	Angle	
Meterage	Reading	Corrected

Date Started: APRIL 30 2000
Date Finished: MAY 3 2000

Lot:
Dep: -90
Bearing:
Elev. Collar:

Total Depth: 187.45
Logged By: J.R.D
Core Size: NQ

Depth	Description
0 - 36.58	OVERBURDEN
36.58 - 55.52	PURPLISH - BROWN RHYOLITE AGGLOMERATE? FAULTED & STRONGLY VEINED BY CALCITE & CARBONATE VENULETS & VEINS. CRISSCROSSING & BRANCHING FROM HAIRLINE TO 1cm IN WIDTH. AGGLOMERATE HIGHLY ALTERED AND SILICIFIED. NO MAFIC LEFT AND FELDSPARS ALTERED ALMOST COMPLETELY TO CLAY. MINIMAL LIGHT GREEN BANDS & PATCHES. ARE SERICITE ALTERATION OF ROCK AND MAY BE AGGLOMERATE FRAGMENTS OR ZONES ALONG FRACTURING OR FAULTING THAT ARE SERICITIZED. REDDISH COLORIZATION PROBABLY BECAUSE THE ORIGINAL MAGNETITE IN RHYOLITES HAS BEEN ALTERED TO HEMATITE AND HAS STAINED THE SURROUNDING ROCK AS IN PREVIOUS HOLES. NO HEMATITE NOTED IN CORE. ROCK IS COMPETENT IN SOLID SECTIONS BUT SOFT AND CAN BE BROKEN EASILY. BLEACHED ZONE TO A GREASY COLOR NOTED ADJACENT TO AREAS OF STRONG CARBONATE VEINING AND OR ADJACENT TO SMALL SHEAR.
37.30 - 38.10	GOUGE & CRUSHED ROCK. 45° TO CA UPPER CONTACT
	GOUGE & CRUSHED ROCK OCCURS AT FOLLOWING DEPTHS. 38.20 - 38.25, 38.40 - 38.75, 39.10 - 39.30, 40.00 - 40.05 - 45° TO CA 40.30 - 40.42, 41.15 - 41.27, 41.45 - 41.52, 41.68 - 42.10 42.53 - 44.40, 45.08 - 45.40, [illegible] 46.65, 47.40 2cm @ 70° TO CA 47.80 - 47.94, 48.99 - 49.05, [illegible] 50.97, 51.68 - 62.20 52.83 - 53.07,
53.30 - 53.97	GOUGE, BROKEN ROCK, MUD, LOST CORE FAULT AT 70° TO CA ON LOWER CONTACT

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	53.97 - 54.21 BLEACHED HIGHLY ALTERED SOFT ANDESITE. SERICITE ALTERATION DOES NOT APPEAR BELOW THE LAST PART. LOWER CONTACT 30° TO CA.
55.02 - 55.69	BLACK LAYER. MAY BE SEDIMENTS? SOFT GOUGE FOR 1st 6 cm. LAYER COMPLETELY ALTERED TO DARK GREEN OPAQUE CLAY MINERAL SIMILAR TO SERICITE BUT DARKER - GREEN. KAOLIN HAS APPEARANCE DIP 61° 45° TO CA. MAY BE FORM OF SECONDARY CHLORITE.
55.69 - 65.86	BLEACHED VOLCANICS MAINLY A LIGHT GREEN COLOUR BUT OCCASIONALLY HAS PINKISH - REDISH COLOUR. BECAUSE OF HEMATITE STAINING ALSO CONTAINS SECTIONS OF DARK SECONDARY CHLORITE ?? WHICH MAY REPRESENT ANDESITIC SEDIMENTARY LAYERS. SECTION VERY MANY VEINED BY CARBONATE ROCK IS COMPETENT BUT EXTREMELY SOFT SO WHEN PUSHED IN BREAKS DOWN. MAY BE WEATHERING OR ALTERATION HOWEVER BUT MAY BE FAULT GOUGE WHICH IS MORE LIKELY DARK LAYERS APPEAR TO BE STRONGER AND ARE SOLID ROCK GENERALLY SHEARED 45-60° TO CA.
	56.09 - 56.16 BLACK - CHLORITE LAYER & CARBONATE VEIN 1 cm 57° TO CA.
	56.60 - 56.80 BLACK 1st CHLORITE LAYER. SOFT GOUGE LOWER CONTACT 60° TO CA
	57.44 - 58.20 DARK SECONDARY CHLORITE WITH SOME CHERTY OR SILICIFICATION NEAR BOTTOM OF SECTION ROCK IS GENERALLY HARD & COMPETENT CONTAINING MINOR BLEACHED ZONES & MASSIVE NARROW CARBONATE VEIN.
	58.30 - 58.36 SOFT BLACK GOUGE SECONDARY CHLORITE MAY BE SEDIMENTARY LAYER. 60° TO CA.
	GOUGE ZONE STOPS AT 59.74 m AT 80° TO C.A. ON DARK LAYER SLIGHTLY SILICIOUS? 1-3 mm. AND STARTS AT BEGINNING OF SECTION AT 55.69 m.
	59.88 - 59.92 DARK LAYER 88 TO CA CRUMBLED SECONDARY CHLORITE 70% CLAY 30%

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	60.64 - 60.80 BLACK LAYER 85° TO CA 70° SECONDARY CHLORITE 20% CARBONATE - MINOR QUARTZ VEINING & 10% CLAY MINERALS.
	61.82 - 61.84 2cm GOUGE 90° TO CA.
	62.05 - 62.65 GOUGE & CRUSHED ROCK.
	63.66 - 64.37 GOUGE & CRUSHED ROCK
65.86 - 66.25	SILICIOUS BLACK ROCK & CREAMY WHITE QUARTZ COULD BE A CHERTY SEDIMENTARY LAYER. APPARENTLY IN CHARACTER HARD & LOWER PORTION CUT BY QUARTZ CARBONATE VEIN. ZONE 45° TO CA.
66.25 - 73.42	VOLCANICS BLEACHED TO CREAM - LIGHT PALE GREEN WITH OCCASIONAL PINKISH BANDS OR ZONES & CONTAINING BLACK CHERTY LAYERS AND BANDED SILICIOUS LAYERS. VOLCANICS APPEAR TO BE SANDY TUFFS AND ARE ALTERED TO CLAY MINERALS (SAUSSURITIZED) CONTAINING SOME SERICITE IN SPOTS. CHERTY CLASTS OCCUR IN SOME SECTIONS (BLACK). CARBONATE VEINING IS POOR. SMALL LESS THAN 1cm SHEAR PLANES WITH MINOR GOUGE? OCCUR IN SPOTS.
	67.00 - 67.20 CHERTY CLASTS IN VOLCANICS.
	67.85 - 68.00 CHERTY BLACK SECTION ALSO SOME SILICIFICATION OF ADJACENT VOLCANICS. SOME OPEN SPACED CARBONATE - QTZ. VEINS. & A FEW ELONGATE CAVITIES.
	68.38 - 68.52 - BLACK CHERTY SILICIOUS ZONE
	68.52 - 69.43. - SILICIFIED BASALT VOLCANICS SLIGHTLY WITH BANDED BLACK CHERTY LAYERS AND SOME BANDED CHERTY REDDISH & GREENISH CREAM LAYERS. 65° TO CA.

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	70.20 - 70.56 SILICIFIED ZONE WITH QUARTZ - CARBONATE VEINING 35° TO CA. VOLCANICS SILICIFIED UP TO 15 cm AWAY FROM VEINS ON TOP AT 2-3 cm ON BOTTOM OF VEINING. VEINING 0.20 cm. WHITE QUARTZ WITH HEMATITE REDISH SECTIONS.
	71.40 - 71.60 GOUGE & BROKEN ROCK WITH 30 cm SECTION ABOVE OF RAILWAY HIGHLY ALTERED BLEACHED VOLCANICS
	72.00 - 72.20 SILICIFIED ZONE WITH WHITE & GREY BANDED QUARTZ VEIN. & BRECCIATED SILICIFIED VOLCANICS 30° TO CA.
	72.70 - 3.5 cm SILICIFIED QUARTZ VEIN & ADJACENT VOLCANICS 45° TO C.A.
	72.86 OXIDIZED & HEMATIZED FRACTURE - MINOR GOUGE OXIDIZED ZONE 4 cm WIDE 77° TO CA
	73.00 - 73.15 GOUGE & BROKEN ROCK 75° TO CA
	73.35 - 73.45 GOUGE 70° TO C.A
73.42 - 76.80	ANDESITE VOLCANICS - SILICIFIED ZONE AND QUARTZ VEINING WHITE "RUBY" QUARTZ AND MASSIVE BANDED QUARTZ + QUARTZ CARBONATE VEINS CUTTING VARIOUS STAGES OF SILICIFICATION OF ANDESITE VOLCANICS. FROM COMPLETELY BARREN AND SILICIFIED WITH OPEN SPACED CAVITIES AND MINOR QUARTZ - CARBONATE VEINS TO LESS SILICIFIED SECTIONS OF VOLCANICS WITH VARYING AMOUNTS OF QUARTZ AND QUARTZ CARBONATE VEINS. MAJORITY OF VEINING 45° TO CA WHICH IS ALSO THE VEIN CONTACT ARE THE 60 cm WIDE RUBY QUARTZ VEIN. LOCATED ~ 3/3 OF WAY DOWN THE ZONE.
	UPPER CONTACT GOUGE ZONE @ 70° TO CA
	LOWER CONTACT ~ 70° TO CA ON HANGING WALL ALTHOUGH LAST 20 cm OF CORE NOT WELL SILICIFIED MINOR GOUGE ZONE VERY MINOR SULPHIDES NOTED < 1%
	75.40 - 76.20 RUBY QUARTZ VEIN. 75.40 - 76.70 SAMPLE 89257
	74.68 - 75.40 SAMPLE 89258

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76.90 - 79.24.	RUSTY HEMATITE STAINED ANDESITE VOLCANICS MODERATELY VEINED BY CARBONATE & NARROW QUARTZ - CARBONATE VEINS WITH GOUGE OR FAULT ZONES.
	77.56 - 6 cm WIDE QUARTZ - CARBONATE VEIN AND HEAVY HEMATIZED ROCK.
	77.70 - 78.33 GOUGE & BROKEN CORE ALONG CONTACT 45° TO CA
	79.24 - 3 cm GOUGE AT 45° TO CA
79.24 - 187.45	DARK GREEN ANDESITE AGGLOMERATES & TUFFS. DUE TO MINOR VOLCANICS SET BY MODERATELY STRONG CARBONATE AND AN OCCASIONAL QUARTZ CARBONATE VEIN. VEINING AVERAGING 2 TO 3 cm IN WIDTH. VOLCANICS ARE CALCAREOUSLY ALTERED MAFIC CONTENT BUT FELDSPARS ARE UNSORTED UNALTERED. MAGNETITE CONTENT VARIES FROM 1 TO 5%. OCCASIONAL PINKISH SECTION OR FRAGMENT, SOME ZONES PHYLLITIC, SHEARING OR CARBONATE VEINING. MAGNETITE → HEMATITE STAINING?
	81.40 - 81.50 QUARTZ CARBONATE VEIN WITH WEAK HEMATITE STAINING AND GOUGE MATERIAL. 3 QUARTZ - CARBONATE VEINS UP TO 1 cm IN WIDTH ZONE AT 70° TO CA.
	80.60 5 cm QUARTZ CARBONATE VEIN & GOUGE ZONE WITH HEMATITE STAINING.
	86.43 - 86.75 - GOUGE BROKEN - FRIABLE ROCK WITH 4 cm WIDE ZONE IN CENTRE OF SILICIFIED VOLCANICS WITH NUMEROUS CARBONATE QUARTZ ? VEINLETS.
	87.75 - 87.80 - GOUGE ZONE 63° TO CA.
	87.80 - 90.90 - HEMATITE STAINED PINKISH & GREEN ANDESITES STRONGLY VEINED BY CARBONATE AND RARELY WITH QUARTZ CARBONATE VEINS.

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	90.54 - 90.90 GOUGE ZONE 45° TO CA.
	90.90 - 91.70 CRUSHED & QUARTZY ROCK WEAK CARBONATE VEINING 30-40° TO CA.
	92.47 - CRUSHED ROCK 5 cm ± 1 cm QTZ CARBONATE VEIN. 40° TO CA.
	93.18 - 93.90 CRUSHED ROCK. 65° ? TO CA.
	96.05 - 96.50 CRUSHED ROCK, GOUGE STRONG CARBONATE VEINING MINOR HEMATITE STAINING. 75° TO CA
	102.23 - 2 cm GOUGE & CRUSHED ROCK MINOR CALCITE VEINLETS. 23° TO CA.
	102.20 - 102.80 .60 METRE CRUSHED ROCK MINOR GOUGE, CARBONATE VEINLETS & QUARTZ.
	105.16 - 105.48 CRUSHED ROCK CARBONATE VEIN. 25° TO CA.
	111.80 - 112.60 CARBONATE & HAMMOLD QUICK ZONE SEMI PARALLEL TO CA.
	112.90 - 113.13 - CRUSHED ROCK ZONE 50° TO CA. CARBONATE VEINLETS SEMI PARALLEL TO CA.
	114.20 SHEAR GOUGE ZONE 1-2 cm ? 40° TO CA
	116.65 - 116.72 CRUSH ZONE GOUGE 70° TO CA.
	117.90 2 cm GOUGE ZONE 60° TO CA.
	122.00 ± 2 cm GOUGE ZONE 70° TO CA.
	126.49 3 cm CRUSH ZONE CALCITE - CARBONATE VEIN 45° TO CA
	127.65 - 128.00 CRUSHED ROCK ZONE MINOR GOUGE 45° TO CA.

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129.82 - 130.85 - BLEACHED ZONE FELDSPAR ALTERED TO CLAY AND MAFICS (CHLORITE) ALTERED TO CLAY MINERALS. TOP OF ZONE 1 cm GOUGE 80° TO BOTTOM OF ZONE GRADATIONAL ON FX 90° TO CA WITH GOUGE CRUSH ZONE FROM 130.30 - 130.70 - AT 60°? TO CA. NUMEROUS CARBONATE VEINS. PARALLELING SHEARS AT 60° TO CA.

131.25 1 cm GOUGE 75° TO CA.

139.60 - 139.70 3-4 cm WIDE CARBONATE VEIN - ON TOP OF A CRUSHED ROCK ZONE 65° TO CA

142.96 - 143.18. CRUSHED SOFT ROCK MINOR CARBONATE VEINING, PINKISH HEMATIZED ROCK SECTIONS 4 cm WIDE. SOME HEMATITE RUSTY ON SOME FRACTURES. ZONE & VEINING 50° TO CA.

143.48 - 143.55 CRUSHED & PARTIALLY BLEACHED ROCK SOME HEMATIZED PINKISH ZONES UP TO 1 cm. ZONE APPEARS TO BE ~ 40° TO CA.

144.10 - 144.30 BLEACHED & CLAY ALTERED GOUGE ZONE MINOR CARBONATE VEINING 75 - 80° TO CA.

145.70 - 146.11 - CRUSHED ROCK & GOUGE (5 cm) 45°? TO CA.

149.30 3 cm GOUGE ZONE 80° TO CA.

149.80 2 cm GOUGE ZONE 60° TO CA.

150.88 - 152.80. BROKEN ROCK, CRUSHED ROCK & MINOR GOUGE, WITH 15 cm GOUGE ZONE AT BASE 70° TO CA.

152.80 - 153.10 - BLEACHED SECTION. 3 NARROW GOUGE AND CRUSHED ROCK SECTIONS TO 3 cm WIDTHS. CARBONATE VEINING WITH OPEN SPACES SUB PARALLEL TO CORE, & SHEARING & MINOR HEMATITE STAINING & ALTERATION 70° TO CA.

153.80 - 153.92 GOUGE & BROKEN ROCK GOUGE & SLICKS 45° TO CA.

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	159.50 - 159.80 SLIGHTLY BLEACHED ZONE STOCKWORK CARBONATE VEINING V. MINOR HEMATITE SPECKS & STRINGERS OF SOME CARBONATE. 75° TO CA
	160.02 - 160.05 GOUGE & BROKEN ROCK. 70° TO CA
	160.20 - 160.25 GOUGE & CRUSHED ROCK MINOR CARBONATE VEINS. 65° TO CA
	160.25 - 160.50 BLEACHED & WEAK CLAY ALTERED ZONE MINOR PURPLISH VOLCANICS 2-3cm AT BEGINNING OF SECTION. SOME SERICITE ALTERATION, NO CHLORITE BOTTOM OF ZONE 45° TO CA.
	167.35 1 cm GOUGE FOLLOWED BY 1-2cm CARBONATE VEINS. 30° TO CA.
	172.34 - 172.49 - 7 CARBONATE VEINS & 4 CROSS CUTTING CARBONATE VEINS CRUSHED ROCK & MINOR GOUGE ALONG MAIN VEIN DIRECTION 30° TO CA.
	178.15 20cm GOUGE & CARBONATE VEINING MINOR RUSTY HEMATITE STAINING ALONG SOME FRACTURES
	178.29 - 1 cm GOUGE 1 cm CARBONATE VEIN. 60° TO CA.
	179.00 - 179.47 GOUGE ZONE 60° TO CA.
	179.80 - 180.77 - GOUGE & CRUSHED & BROKEN. ZONE. 60° TO CA.
	180.93 - 2cm GOUGE & CRUSHED ROCK, CARBONATE VEINS & HEMATITE 1%. 30° TO CA
	183.23 - 1 cm OF GOUGE 30° TO CA.
	185.76 2 cm BANDED CARBONATE VEINS (QTZ?) HEMATITE ON VEIN EDGES REDDISH ALTERATION 40° TO CA
	187.45 E.O.H.

Hole 2000-4

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Dip Test		
	Angle	
Meterage	Reading	Corrected

Date Started: MAY 3 2000
Date Finished: MAY 17 2000

Lot		Total Depth	369.72
Dip	-90	Logged By	J.R.D
Bearing		Core Size	NQ
Elev. Collar			

Depth	Description
0.0 - 15.24	OVERBURDEN
15.24 - 37.22	LARGE FAULT ZONE, ALTERNATING GOUGE ZONES, BROKEN ROCK AND A FAIR AMOUNT OF GROUND OR CORE LOSS IN SECTION ALTERNATING WITH SECTIONS OF PURPLISH AND GREEN (DARK) VOLCANICS AND COLOR VARIATIONS OF SAME INCLUDING SHORT SECTIONS. BLEACHED AND ALTERED VOLCANICS ADJACENT TO ZONES OF STRONG CARBONATE VEINING. VOLCANICS APPEAR TO BE TUFFS, AGGLOMERATE AND FLOWS WITH THE PURPLISH VARIATIES HIGH MAGNETITE AND MAGNETITE ALTERED TO HEMATITE AND HEMATITE STAINING THE ROCK. GREENISH VARIETIES CONTAIN DISSEMINATED MAGNETITE FROM 1 TO 5% CARBONATE VEINING WEAK - MODERATE
	15.63 - 15.73 GOUGE ZONE 33° TO CA
	17.00 - 19.30 GOUGE ZONE SOLID CORE EDGES PRE 70° TO CA
	22.40 - 23.06 GOUGE & SOME BROKEN ROCK BOTTOM 60° TO CA.
	25.28 - 25.38 GOUGE ZONE 70°? TO CA
	25.75 - 28.23 GOUGE ZONE
	28.75 - 28.96 BLEACHED ZONE PARTIALLY 3 CARBONATE VEINS TO 1 cm 60° TO CA
	28.96 - 29.25 GOUGE ZONE 45° TO CA?
	29.52 - 29.82 GOUGE & BROKEN ROCK.
	30.25 1 cm GOUGE @ 33° TO C.A
	30.73 - 31.07 GOUGE & BROKEN ROCK.

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	31.50 - 32.37 GOUGE WITH MINOR BROKEN ROCK. SLIP PLANE BOTTOM 60° TO CA
	33.25 1 cm GOUGE FOLLOWED BY 10 cm OF SLIGHTLY BLEACHED ? CLAY ALTERED ANDESITE VEINED BY CROSS CUTTING CARBONATE VEINS.
	33.54 - 34.60 GOUGE ZONE TOP 30° TO CA.
	34.90 - 35.05 BROKEN ROCK & GOUGE
	35.05 - 35.18 BLEACHED PARTIALLY CLAY ALTERED LIGHT GREEN, CARBONATIZED VEIN ZONE WITH 5mm VEIN BOTTOM 70° TO CA.
	35.18 - 36.57 GOUGE, BROKEN ROCK GROUND CORE
	36.73 - 37.22 GOUGE ZONE 48° TO CA.
37.22 - 60.97	DARK GREEN ANDESITE VOLCANICS FRAGMENTAL AGGLOMERATES, FLOWS AND DYKES. MAFICS COMPLETELY ALTERED TO DARK GREEN CHLORITE MAKING UP TO 40% OF ROCK MASS. REMAINDER WHITISH COLORED FELDSPARS. ANHEDRAL IN SHAPE WHICH MAY BE PARTIALLY (LOCALLY) ALTERED TO CLAY MINERALS OVER SHORT DISTANCES. CARBONATE VEINING FROM HAIRLINE DISCONTINUOUS VEINLETS TO VEINS UP TO 1 cm. MODERATE STOCKWORK OF VEINING. DISSEMINATED MAGNETITE PRESENT UP TO 5%. AGGLOMERATE FRAGMENTS UP TO 15 cm. SOME SMALL PERCENTAGE OF FRAGMENTS HAVE PURPLISH TINT. FAULTING STRONG IN PLACES.
	38.40 5 cm GOUGE ZONE 55° TO CA.
	38.[illegible] - 38.98 GOUGE ZONE CARBONATE VEINS 2 (5mm) 25 & 35° TO CA.
	40.20 - 40.50 BROKEN & GOUGED ROCK. 2 cm QUARTZ VEIN AT 70 - 90° TO CA.
	40.84 - 42.67 TRICONED LOST CORE

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	42.67 1 cm GOUGE 70° TO CA
	42.50 - 43.78 GOUGE ZONE BLEACHED TO LIGHT GREEN - GREEN & PURPLISH ROCK SHEAR PLANES 55° TO C.A.
	46.40 - 47.10 SILICIFY TO MODERATELY BLEACHED SECTIONS TO MEDIUM GREEN ROCK. NUMEROUS CARBONATE VEINS. AND SHEARING - GOUGE OVER BOTTOM ½ OF SECTION 35° TO CA.
	48.20 - 48.25 2 CARBONATE QUARTZ CARBONATE VEINS UP TO 1 cm CONTAINING RED (RUSTY COLOR) MINERALIZE IN ONE VEIN. VEINS BOUND. 75° TO CA.
	49.30 - 49.78 BLEACHED GREENISH - LIGHT GREEN GOUGE ZONE WITH 1-2 cm QUARTZ CARBONATE VEIN 20° TO C.A. 1 cm GOUGE BLEACHED ZONE AT 30° TO CA. 15 cm ABOVE DIS ZONE
	50.61 - 50.65 GOUGE ZONE 60° TO CA
	51.20 - 51.30 CRUSHED ROCK, SHEAR & 4 cm CARBONATE & ROCK VEIN 65° TO CA.
	52.20 - 52.45 CRUSHED ROCK SHEAR & CARBONATE VEINS. 60 - 80° TO CA.
	53.20 - 53.73 GOUGE ZONE 75° TO CA.
	54.00 - 54.18 GOUGE ZONE WITH 1 cm CARBONATE VEIN. BOTTOM OF ZONE 85° TO CA
	58.47 - 58.65 GOUGE ZONE 65° TO CA.
	60.66 - 60.92 GOUGE & BROKEN ROCK 60° TO CA

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60.92 - 75.60	PURPLISH & PURPLISH-GREEN ANDESITE VOLCANICS INTENSELY VEINED BY CARBONATE VEINS BOTH HAIRLINE & BANDED VEINS, SOME ROCK BRECCIATED CARBONATE VEINS (CARBONATE CONTAINING ROCK FRAGMENTS) SHEARED IN PLACES, BLEACHED ZONES TO LIGHT CREAM OR LIGHT GREENISH CREAM COLOR. SOME QUARTZ CARBONATE VEINS OR BLOTCHES. VEINING LESS INTENSE TOWARDS BOTTOM OF SECTION AND ANDESITES ARE A DARK TO MEDIUM GREEN COLOR WITH A PURPLISH TINT. VEINING IN ALMOST EVERY DIRECTION FROM PARALLEL TO CORE TO 90° TO CA.
	61.46 - 61.56 GOUGE & BROKEN ROCK
	62.25 - 62.30 GOUGE BROKEN ROCK & HEMATITE ON FRACTURES.
	62.50 - 63.14 GOUGE ZONE MINOR SOLID ROCK LOWER CONTACT 58° TO CA UPPER CONTACT 10° TO CA SECONDARY ZONE AND 60° TO CA
	63.46 - 63.72 GOUGE MINOR SOLID ROCK TOP CONTACT 30° TO CA
	63.80 - 64.00 GOUGE 70° TO CA 1 CM QTZ CARBONATE VEIN AT TOP.
	64.30 - 64.45 - QUARTZ CARBONATE VEIN CONTAINING ROCK FRAGMENTS 30 TOP & 70 BOTTOM TO CA.
	65.35 3 CM QUARTZ CARBONATE VEIN. 60° TO CA.
	65.53 - 68.58 - 60° OF ZONE GOUGE 20% SOLID ROCK 20% BROKEN ROCK FAULT ZONE LOST CORE SHEARING 30 & 60° TO CA. MOST 60° TO CA. ONE 5 CM SECTION OF QUARTZ - CARBONATE VEINING GROUND BY DRILL NEAR BOTTOM OF SECTION.
	72.13 - 73.40 INTENSELY VEINED ZONE PARTIALLY BLEACHED & ALTERED TO CLAY MINERALS CARBONATE VEINING 30° TO CA
	73.15.5 2 CM GOUGE 45° TO CA

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	GOUGE SHOWN BLEACHED / ON CARBONATE VEIN.
	73.36 - 73.98 INTENSE VEINS OF CARBONATE, BLEACHING OF SECTIONS TO LIGHT CREAM COLOUR IN SECTIONS AND SOME SHEARING 53° TO CA. AS IS STRIKE OF VEINING ON EDGES OF ZONE INTERNAL VEINING CLOSER TO 30° TO CA
	75.24 SHEAR BLEACHED ZONE WITH STRONG CARBONATE VEINING 10 CM EITHER SIDE 40° TO CA
	75.60 VEINING QUARTZ CARBONATE + CARBONATE AT BOTTOM OF ZONE 68° TO CA
75.60 - 159.00	DARK GREEN ANDESITIC VOLCANICS, FRAGMENTALS, AGGLOMERATES, TUFFS & FLOWS MAFIC CONTENT COMPLETELY ALTERED TO CHLORITE, FELDSPAR CONTENT ESSENTIALLY UNALTERED. VOLCANICS MAY HAVE PURPLISH TINT IN PLACES BECAUSE OF MAGNETITE ALTERING TO HEMATITE AND STAINING ROCK. ALSO THERE ARE PURPLISH FRAGMENTS IN THE AGGLOMERATES & FRAGMENTALS. MAGNETITE - HEMATITE CONTENT UP TO 5%. MAFICS 30-40%, FELDSPARS 60-70%. ROCK IS COMPETENT AND WEAKLY VEINED BY NARROW CARBONATE VEINS. VEINS MAY HAVE NARROW ALTERATION ENVELOPES OF CLAY MINERALS. AGGLOMERATE FRAGMENTS GENERALLY ROUNDED AND MAY REACH 15 CM IN DIAMETER. VEINING GENERALLY 45 TO 70° TO CA. FRAGMENTS OF PURPLISH - BROWN COLOR INCREASING DOWN HOLE SO THAT 50% OF FRAGS PURPLISH AFTER 102.00 M.
	101.11 - 101.70 LIGHT GREEN CLAY ALTERED CONTAINING ALONG & ADJACENT TO SHEAR AND SOME CARBONATE VEINS SUB PARALLEL TO CA. 10-20°
	103.50 - CARBONATE VEIN WITH VUGS AND SEVERAL STAGES 33° TO CA 4 CM WIDE
	105.63 - 106.80 ZONE PARALLEL TO CORE OF QUARTZ - CARBONATE VEIN CONTAINING ROCK FRAGMENTS. SOME OF WHICH HAVE BEEN COMPLETELY ALTERED TO CLAY MINERALS + PARTIALLY SILICIFIED. BUFF COLOURED FRAGS - OTHER FRAGS. IN VARIOUS STAGES OF ALTERATION TO CLAY MINERALS

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122.80 2CM WIDE CARBONATE VEIN (ZONED) 35° TO C.A. CUT OFF ON FRACTURE (SLIP PLANE?) 40° IN OPPOSITE DIRECTION

124.00 AFTER THIS POINT SECONDARY BIOTITE VEINS ON OCCASIONAL FRACTURE ARE COMPLETELY ALTERED TO DARK GREEN CHLORITE. WIDELY SPACED

127.00 - AFTER THIS POINT ROCK BECOMES LESS PINKISH. LESS PURPLEISH FRAGMENTS IN AGGLOMERATES & LESS HEMATITIC ALTERATION.

131.20 - 131.43. BRECCIATED CARBONATE VEIN ZONE MINOR GOUGE 34° TO CA.

132.66 - 132.70 GOUGE ZONE 80° TO CA

137.14 - 137.68 - GOUGE ZONE 45° TO CA.

139.21 - 139.26 GOUGE ZONE 75° TO CA

144.00 GOUGE ZONE ~ 1 cm?

144.55 - 144.60 GOUGE ZONE 50° TO CA

145.10 - 145.24 GOUGE ZONE WITH CALCITE-CARBONATE VEINS & 80° TO CA

147.40 - 147.43 GOUGE ZONE WITH CARBONATE VEINS, 80° TO CA.

149.55 - 149.60 GOUGE ZONE AT 73° TO CA

150.00 - 150.20 GOUGE & CRUSHED ROCK. AT 30 & 45° TO CA.

151.00 - 159.00 MORE INTENSE CARBONATE VEINING - STRONG. ALSO SOME SECONDARY CHLORITE FRACTURES - VEINS TO 1 CM. HEMATITE ON SOME FR. IN GOUGE ZONES.

154.25 1 CM GOUGE 45° TO CA.

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	154.56 - 154.80 SEVERAL NARROW 1 - 3 CM SHEAR GOUGE ZONES 65° TO CA.
	155.09 - 155.28 - GOUGE & CRUMBLY ROCK HEMATITE ON SHEAR PLANE BOTTOM OF SECTION 45° TO CA.
	155.40 SHEAR GOUGE 1 CM 90° TO CA
	155.58 1 CM GOUGE SHEAR PLANE HEMATITE ON PLANE 45° TO CA.
159.00 NOTE	SEE PAGE 9 OF DRILL LOG.
	162.13 - 162.23 - BLEACHED CLAY ALTERED ZONE WITH 40% CARBONATE VEINS & NARROW SLIP PLANE ON BOTTOM 45° TO CA
	163.73. 3 CM GOUGE AT 70° TO CA.
	165.25 3 CM GOUGE & CARBONATE VEIN. 65° TO CA.
	167.35 - 167.54 3 NARROW UP TO 1 CM GOUGE ZONES 60° TO CA.
	168.05 - 168.42. CLAY ALTERATION OF FELDSPAR WEAK, CARBONATE VEINING & 8 NARROW GOUGE OR SLIP PLANES. 63° TO CA.
	172.15 6 CM GOUGE CRUSHED ROCK HEMATITIC SLIP PLANES. 30 & 70° TO CA.
	172.62 - 172.70 - BLEACHED TO LIGHT GREEN. MINOR CARBONATE VEINS. < 1 CM GOUGE 65° TO CA. HEMATITE STAINED REDDISH CARBONATE SLIP PLANES 75° TO CA
	175.00 - 175.20 GOUGE ZONE WITH 4 CM WIDE BRANCHING CARBONATE VEIN, ZONE SLIP PLANES 53° TO CA.
	177.12 - 177.44. CRUSHED & BROKEN ROCK CUT BY SEVERAL NARROW SHEARS AND CLAY ALTERED [illegible], SHEARING 65° TO C.A. IN TWO DIRECTIONS 90° TO EACH OTHER.
	179.50 - 179.70 - CLAY ALTERED ZONE (MODERATE) ALONG SLIP PLANE AND BRANCHING AND CARBONATE VEINLETS [illegible] SHEAR. 80° TO CA

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180.14 - 180.79 ZONE OF WEAK CLAY ALTERATION ALONG FRACTURES & ADJACENT TO CARBONATE VEINS & VEINLETS. WITH A 15 cm ZONE OF MODERATE CLAY ALTERATION. BASE OF SECTION IN GOUGE ZONE WITH A CURVED SLIP PLANE FROM 20 TO 40° TO CA.

182.54 - 182.71 GOUGE, SLIP PLANES, 2 cm CARBONATE VEIN. SLIP PLANES HEMATITE. 25° TO CA. SOME HEMATITE CARBONATE WITH MINOR CARBONATE VEIN 182.77 m

183.69 - 183.82 QUARTZ CARBONATE VEIN WITH INCLUDED CLAY ALTERED FRAGMENTS AND SLIP PLANE ON BASE 30° TO CA.

188.18 - 188.34 - GOUGE SLIP PLANE AT TOP TO CA. FOLLOWED BY 2 cm OF MEDIUM CARBONATE VEINS & BRECCIA BY 4 cm VEIN OF CARBONATE ROCK FRAGMENTS SURROUNDED BY 2-4 cm OF VARIOUS STAGES OF CLAY ALTERED VOLCANICS FROM INTENSE TO WEAK AWAY FROM VEIN. VEIN ZONE 45° TO CA

188.80 - 191.20 NUMEROUS MINERALIZED LIGHT GREEN CLAY ALTERED FRACTURES AND MODERATE MINERALIZED TO MAIN VEINLETS OF CARBONATE AND A FEW MINERALIZED SLIP PLANES CUTTING CALCITE ALTERED FRAGMENTS. A 1 cm GOUGE ZONE AT 189.9 AT 69° TO CA, AND AT 190.70 1 cm GOUGE 30° TO CA.

193.23 - 193.28 GOUGE ZONE 40° TO CA

193.75 - 194.38 ALTERED CLAY ZONE GOUGE LIGHT GREEN & CURVED MINOR CARBONATE VEINLETS, 42° TO CA. TOP OF ZONE 73° TO CA BOTTOM OF ZONE

195.02 - 195.23 GOUGE LIGHT GREENISH COLOUR LOWER CONTACT 45° TO CA.

198.90 - 199.51 GOUGE & BROKEN SILICIFIED ROCK. ALTERED TO LIGHT GREENISH COLOUR ON ALTERATION HALLOWS IN GOUGE TOP CONTACT 45° TO CA. = 22° TO CA ON BOTTOM CONTACT ALONG 1 cm CARBONATE VEIN.

199.80 - 200.35 ZONE OF ALTERATION, GOUGE 30° TO CA.

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157.00 - 210.31	ANDESITIC AGGLOMERATE: SLIGHTLY PINKISH-GREENISH COLOURED ON FRESH EXAMINATION BUT DARK GREENISH COLOUR OF DYKE ANDESITE AGGLOMERATES LEACHED IN NITRIC. THE MATRIX OF THIS ANDESITE APPEARS TO BE A CHAOTIC MIXTURE OF CRYSTAL FRAGMENTS & CRYSTALS. WITH 10-15% HORNBLENDE AND 85-90% WHITISH COLORED FELDSPARS. THE FELDSPARS ARE UNALTERED AND ANGULAR IN SHAPE USUALLY WITH THE ORCASIONAL EUHEDRAL PHENOCRYST. THE HORNBLENDE IS EUHEDRAL OR SUBHEDRAL AND IS ONLY WEAKLY CHLORITIZED. FRAGMENTS OF THE AGGLOMERATE (VARIOUS VARIETIES OF PINKISH TO GREEN) COLOURED ANDESITE (DYKE) FINE GRAINED TO PORPHYRITIC FELDSPAR VARIETIES. MAGNETITE AND OR HEMATITE MAY OCCUR AS DISSEMINATIONS THROUGHOUT IN MINOR AMOUNTS TO UP TO 5% LOCALLY. SULPHIDE MINERALS HAVE BEEN SEEN, BUT ARE NOT PREVALENT. CARBONATE VEINING IS VERY MODERATE.
	204.40 - 205.09 DYKE OF PINKISH PURPLE FINE GRAINED ANDESITE HAVING CHILLED MARGIN AT BOTTOM. NOT DISSIMILAR TO COMPOSITION OF MATRIX DESCRIBED ABOVE. 157.00 -
	208.18 & 208.26 1cm GOUGE AT 50° TO CA
	209.25 - 209.75 LOW ANGLE GOUGE & BROKEN ROCK ZONE ALONG NARROW CARBONATE VEIN. 10 - 15° TO CA.
	209.80 & 210.00 GOUGE SLIP PLANES WITH UP TO 5mm GOUGE 50 & 40° TO CA
	210.11 - 210.31 GOUGE ZONE LIGHT GREEN IN COLOR SLIP PLANES 35° TO CA
	210.80 1/2 cm GOUGE 35° TO CA
210.31 - 238.16	PINKISH COLOURED INTRUSIVE? WITH NUMEROUS INCLUSIONS OF SURROUNDING ANDESITE SOURCE OF WHICH MANY OF A SIGNIFICANT NUMBER OF THE INCLUSIONS OR FRAGMENTS HAVE ASSIMILATION RINDS OR HAVE CHILLED MARGINS AGAINST FRAGMENTS. THE MAJORITY OF THE INCLUSIONS OR FRAGMENTS ARE ROUNDED. SOME FRAGMENTS

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APPEARS TO HAVE ANGULAR ALTERATION EDGES THAT HAVE BEEN HEATED AND A MINERAL MATRIX ALSO APPEARS TO HAVE MINOR SMALL ROCK FRAGMENTS THAT HAVE ANGULAR EDGES. MATRIX OR INTRUSIVE MADE UP OF 5-10% HORNBLENDE ANHEDRAL TO EUHEDRAL SOME OF WHICH HAVE ALTERED TO CHLORITE. THE REMAINDER IS A JUMBLE OF PINKISH TO WHITE ANHEDRAL FELDSPAR CRYSTAL MASS. CONTAINING 2-5% DISSEMINATED MAGNETITE OR HEMATITE. VERY LITTLE OF MAGNETITE HAS BEEN ALTERED TO HEMATITE. VERY FEW FRACTURES IN CORE AND FEW CARBONATE VEINS OR VEINLETS. SOME VEINS HAVE REDISH (HEMATITE) EDGES OCCASIONAL CHLORITE FRACTURE.

218.68 - 1 CM GOUGE 30° TO CA

217.80 - 217.95 SHEARED 1 CM CARBONATE VEINS OR VEINLETS, SOME LIGHT GREENISH CLAY ALTERATION IN BROKEN ROCK AND A 1 CM GOUGE SECTION 45° TO CA

223.80 - 223.29. DYKE OF FINE GRAINED DARK GREEN ANDESITE 55° TO CA.

229.00 - 20° TO CA. 5-10 CM ZONE OF CARBONATE VEINS AND MINOR GOUGE ALONG BASE. GREEN CLAY ALTERATION ASSOCIATED WITH ZONE

231.87 - 231.94. GOUGE BELOW 1 CM CARBONATE VEIN AT 53° TO CA

232.59 - 233.70 LIGHT GREEN TO GREYISH CLAY ALTERATION ASSOCIATION OF ROCK WITH SHEAR ZONE SLIPPAGE ? ALONG SOME CLAY ALTERED JOINTS PROBABLY 30° TO C.A. CARBONATE VEINS AT TOP & BOTTOM OF SECTION

228.28 - 228.39. DARK GREEN ANDESITE APHANITIC TO FINE GR. WITH CHILLED MARGINS. 78° TO CA.

229.00 TO END OF SECTION - ROCK VERY CROWDED WITH FRAGMENTS OR INCLUSIONS AND LOOKS LIKE AGGLOMERATE.

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	235.43, 235.27, 236.18. 1 CM SHEAR ZONES WITH ASSOCIATED CARBONATE VEIN. 75-78° TO CA
	236.22 - 238.40 - NUMEROUS GOUGE ZONES FROM 1 TO 15 CM. + ASSOCIATED NUMEROUS HAIRLINE CLAY ALTERED FRACTURES. MODERATE CARBONATE VEINING SOME OF LARGER VEINS TO 3 CM ASSOCIATED WITH SHEARING AND GOUGE ZONES. CONTACT WITH FOLLOWING DYKE FOUND NEAR BASE OF FAULTED SECTION. GOUGE ZONES FROM 30-70° TO CA WITH MOST EITHER 45 OR 70° TO CA.
	238.16 LOWER CONTACT 76° TO CA. WAVY.
	236.22 3 VEINLETS OF PYRITE ASSOCIATED WITH CARBONATE VEINLETS, AND MINOR DISSEMINATED PYRITE OVER 5 CM. (TAKEN AS SAMPLE, BY C.)
238.16 - 242.72	APHANITIC TO FINE GRAINED DYKE DARK GREEN IN COLOR (ANDESITIC) CUT BY NUMEROUS CALCITE VEINS + VEINLETS TO 5 CM IN WIDTH. INCLUDES SOME VOLCANIC FRAGMENTS INCLUSIONS AT BASE OF SECTION.
	239.92 - 240.12. CLAY ALTERED ZONE WITH 5 CM WIDE CARBONATE VEIN AT 60° TO CA. MINOR GOUGE ABOVE CARBONATE VEIN FOR 5 CM. CARBONATE VEIN AT BASE OF SECTION.
	242.72 BASE OF DYKE 62° TO CA ALONG NARROW CARBONATE VEIN INCLUSION OF VOLCANICS BROKEN ALONG CARBONATE VEIN
242.72 - 243.82	LIGHT GREY FINE GRAINED SILTSTONE + MINOR TUFFS CONSISTING OF 5-10% MAFICS ALTERED TO CARBONATE AND CLAY MINERALS AND 5-10 FELDSPAR PHENOCRYSTS ALTERED TO SERICITE IN A WHITE TO LIGHT GREEN APHANITIC MATRIX OF APHANITIC SILTSTONE OR CARBONATE
	LOWER CONTACT ON SHEAR 45° TO CA

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243.82-244.67	DARK GREEN APHANITIC TO FINE GRAINED DYKE (ANDESITE) CUT BY A FEW CARBONATE VEINS. FAINT CONTACTED BOTH TOP & BOTTOM.
	243.82-243.95 GOUGE 45° TO CA.
	244.67. 1cm GOUGE AT 70° TO CA LOWER CONTACT CARBONATE VEIN: 70
244.67-246.24	LIGHT GREY FINE GRAINED LIMESTONE. SIMILAR TO THAT DESCRIBED 242.72-243.82, SHEAR ZONE LOWER CONTACT ON CARBONATE VEIN & HEMATITE STAINING LOWER CONTACT 50° TO CA.
246.24-248.73	DARK GREEN APHANITIC DYKE WITH INCLUSIONS & BROKEN CARBONATE VEINS & LIMESTONE SIMILAR TO THAT DESCRIBED 243.82-244.67 & AT 238.16-242.72 MODERATE CARBONATE VEINING. LOWER CONTACT 45° TO CA ON CARBONATE VEIN LOWER
	246.50 1cm GOUGE ON CARBONATE VEIN 52° TO CA.
248.73-267.52	LIGHT GREY FINE GRAINED TO APHANITIC, WITH UNUSUAL SANDY & BRECCIATED SECTIONS: BUT THE ENTIRE SECTION IS A LIMESTONE. ALL ESSENTIALLY THE SAME COMPOSITION CONTAINING VARIABLES, 5 % FELDSPAR FRAGMENTS OR LATHS IN APHANITIC WHITE TO LIMESTONE GROUNDMASS CONTAINING 1-3% DISSEMINATED HEMATITE. FELDSPAR ALTERED TO APPLE GREEN SERICITE. MAFICS TO CHLORITE & GREY MINERALS. WEAK CARBONATE VEINING, COMPETENT ROCK WITH FEW FRACTURES. NO SULPHIDES SEEN. MINOR PYRITE AS VEINLETS & DISSEMINATIONS IN PATCHES ASSOCIATED WITH BLACK [illegible] CHLORITE OR 2NDARY BIOTITE. PROBABLY FROM ALTERED SEDS OR MAY BE CARBONACEOUS SEDIMENTS.
	253.20-253.30 MINOR DISSEMINATED PY AND PYRITE IN BLACK CHLORITE OR BIOTITE FRACTURES OR CLOTS.
	259.95 - GOUGE ZONE 1cm. 35° TO CA

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	264.22 - 265.25 LIMESTONE BRECCIATED BY DARK PARTIALLY SILICEOUS MATERIAL SOME OF WHICH CARRIES FINE GRAINED PYRITE, PARTICULARLY TO LOWER MID SECTION OF SECTION. SAMPLE 89251
	267.52 LOWER CONTACT GOUGE PLANE 1/2 cm WIDE 53° TO CA.
267.52 - 279.65	CREAM TO REDDISH BROWN FRAGMENTAL VOLCANICS WITH ... MANY GOUGE FAULT ZONES CUTTING CORE. BELOW FAULT ZONE FRAGMENTAL VOLCANIC GREYISH, MORE TUFFACEOUS OR SANDY & CONTAINS SHORT 10 TO 35 cm SECTIONS OF BLACK LIMEY SILICEOUS ARGILLITE. THE ARGILLITE MAY CONTAIN MINOR PYRITE <1% VERY FINE GRAINED OR VERY FINE GRAINED SEMI MASSIVE PYRITE OR LAMINATIONS FOR UP TO 1 cm WIDTH. WHERE THE VOLCANICS ARE CREAM COLOURED THE VOLCANICS ARE HIGHLY CLAY ALTERED MAFICS COMPLETELY DESTROYED & FELDSPARS COMPLETELY TO PARTIALLY ALTERED TO CLAY MINERALS. REDDISH COLOURATION MAY BE BECAUSE OF BREAKDOWN OF MINOR AMOUNTS OF HEMATITE.
	268.77 - 270.50 GOUGE ZONE UPPER & LOWER SHEAR PLANES 45° TO CA.
	272.76 TO 273.40 - GOUGE ZONE LOWER CONTACT 45° TO CA.
	274.28 - 275.42 GOUGE = ALTERED BROWN ROCK FAULT UPPER ALTERATION CONTACT 22 cm ABOVE 1st GOUGE 45° TO CA LOWER ALTERATION CONTACT 10 cm BELOW LAST GOUGE 35° TO CA ON 1-2 cm HEMATITE, CARBONATE & QUARTZ? VEIN.
	277.52 - 277.80 BLACK ARGILLITE PARTIALLY SILICIFIED WITH INTENSE CARBONATE VEINING
	279.03 - 279.11 BLACK ARGILLITE PARTIALLY SILICIFIED WITH CARBONATE VEINS & BRECCIATED BY CARBONATE.

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	278.30 - 279.65. BLACK ARGILLITE PARTIALLY SILICIFIED INTENSE CARBONATE VEINING SOME BRECCIATED BY CARBONATE VERY MINOR VERY FINE GRAINED PY AND A FEW OF SEMI-MASSIVE FINE GRAINED PYRITE IN TUFFS ON LOWER CONTACT
279.65 - 282.36	MIXTURE OF LIGHT GREYISH COLOURED FINE SANDY VOLCANIC TUFFS & MINOR BLACKISH ARGILLITES ? OR FINE GRAINED VOLCANIC SEDIMENTS. ALL APPEAR TO BE SHEARED & ELONGATE STRAINED 30 TO 60° TO CA. ALSO SOME BEDDING OR LAYERING AT 45° TO CA AT APPROXIMATELY 281.m. MINOR SANDY LIMESTONE. MODERATELY TO STRONGLY VEINED BY CALCITE CARBONATE. LOWER CONTACT INDISTINCT AT 45° TO CA.
282.36 - 283.40	LIGHT GREY LIMESTONE AS DESCRIBED ABOVE LOWER CONTACT ON SHEARED CARBONATE VEIN. 60° TO CA
283.40 - 284.25	LIGHT GREYISH VOLCANIC AGGLOMERATE WITH ROUNDED FRAGS ALSO SEMI-ROUNDED TO 1 cm. VERY OCCASIONAL LIMESTONE FRAGMENT LOWER CONTACT 45° TO CA.
284.25 - 285.24	LIGHT GREY LIMESTONE AS ABOVE
285.24 - 293.30	GREY & BLACK BEDDED OR BANDED MIXTURE OF BLACK ARGILLACEOUS VOLCANIC SEDIMENTS & FINE GRAINED SANDY TUFFS OR SANDSTONES WITH SOME AGGLOMERATES WITH FRAGS ANGULAR TO ROUNDED MAY HAVE SOME MINOR DYKING AND ALTERATION IS STRONG TO BLEACH BROWN & [illegible] ABOVE A 45° SHEAR PLANE 289.35 FOR 45 cm. BLACK COLOR PROBABLY HEMATITIC STAINING. SOME CLAY ALTERED.
	293.30 LOWER CONTACT 35° TO CA.

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293.30 - 295.85	DARK TO MEDIUM GREEN. FINE GRAINED ANDESITE DYKE: WITH WEAK TO MODERATE CARBONATE VEINING & VEIN ZONES TO 3 cm. ANHEDRAL MAFICS PARTIALLY CHLORITIZED 5% & WHITISH FELDSPARS 10% up to 1 mm IN SIZE IN DARK - MEDIUM GREEN. APHANITIC GROUNDMASS. MAY ALSO BE TUFF.
	295.85 LOWER CONTACT 60° TO CA.
295.85 - 297.11	MOSTLY BLACK ARGILLACEOUS MATERIAL WITH MINOR BANDING OR BEDDING CUT BY NUMEROUS CARBONATE VEINS (STRONG) AND CONTAINING SECTIONS OF AGGLOMERATE WITH ANGULAR TO ROUNDED FRAGMENTS OF VOLCANICS AND SOME LIMESTONE. ALSO MINOR TUFFACEOUS BANDS OR SANDSTONE BANDS LOWER CONTACT EXTREMELY IRREGULAR.
297.11 - 319.11	MEDIUM GREEN. FINE GRAINED TUFFACEOUS SANDSTONE OR TUFF WITH OCCASIONAL BAND OF BLACK ARGILLACEOUS MATERIAL 45° TO CA. NARROW TO 5 cm. FAULTED AT LOWER CONTACT AND MIXED OR JUMBLED FOR LAST 50 cm.
	318.54 GOUGE 1 cm 65° TO CA
	318.93 - 319.11 FAULT GOUGE LOWER CONTACT 80° TO CA ON CARBONATE VEIN. UPPER CONTACT 60° TO CA
319.11 - 322.65	DARK GREY VOLCANIC FRAGMENTAL WITH ANGULAR, JAGGED & ROUNDED FRAGMENTS TO 10 cm. MANY KINDS OF VOLCANIC FRAGMENTS SOME CONTAINING LIGHT GREEN SAUSSURITE ALTERATION OF FELDSPARS. OTHERS ALMOST COMPLETELY ALTERED TO CLAY MINERALS. MINOR EPIDOTE?? IN SPOTS IN FRAGMENTS MINOR LIMESTONE FRAGMENTS PARTICULARLY NEAR TOP OF SECTION. OCCASIONAL ANDESITE DYKE OR MEDIUM GREEN TUFFACEOUS BAND TO 40 cm WIDE. OCCASIONAL BANDING OR BEDDING INDICATED IN FINER GRAINED SECTIONS. 77° TO CA. OCCASIONAL SPECK OF DISSEMINATED PYRITE

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	315.22 2 cm BALLET GOUGE 60° TO CA
	314.?m BEDDING OR BANDING 65° TO CA
	322.65 20 cm BEDDING OR BANDING ABOVE CONTACT 60° TO CA AS IS CONTACT AT 322.65
322.65 334.50	CONGLOMERATE OR VOLCANIC AGGLOMERATE SANDY TO CLASTS OF 2 cm. ROUNDED [illegible] FRAGMENTS. SMALLER MAY BE ANGULAR. CLASTS CHAY ALTERED AND FELDSPAR TO SERICITE AND CLAY MINERALS. SOME ARGILLITE FRAGMENTS AND LIGHT GREEN SANDSTONE TYPES. PYRITE GENERALLY < 1% WITH SOME PYRITE AS THE OCCASIONAL VERY SMALL CLUSTER OR FRAGMENT
	330.65 331.20 1-2% DISSEMINATED PYRITE STRONGEST PYRITE SHOWN TO BASE. SAMPLE# 89252.
334.50-341.33	BLACK ANDESITE WEAKLY SILICIFIED ARGILLITE WITH NO DISTINGUISHING CHARACTERISTICS EXCEPT IT IS STRONGLY VEINED BY CARBONATE. MOSTLY COMPETENT ROCK. MINOR BEDDING OR BANDING OCCASIONALLY PRESENT. WITH LIGHTER GREY TUFF LAYERS OR CLAY ALTERED (HYDROTHERMALLY) LAYERS. 78° TO CA. OCCASIONAL PYRITE FRACTURE, SHORT 10-20 cm LONG SECTIONS OF OPEN SPACES WITH CALCITE INFILLING OF CAVITIES. SOME WITH FINE CRYSTAL PYRITE GROWTHS. CAVITIES 1-2 cm LONG AND UP TO ½ cm WIDE. LOWER PORTION BRECCIATED & FAULTED, BRECCIATED SECTIONS RE-HEALED BY CALCITE & ROCK FLOUR. SOME PARTS MAY CONTAIN LIGHT GREENISH ANDESITE ANDESITE DYKES. SOME BLEACHING OR GREYISH BANDS IN LOWER PORTION OF SECTION
	341.67 - 341.70 GOUGE 45° TO CA GREY IN COLOUR
	341.90 - 341.92 GOUGE 60° TO CA GREY IN COLOUR.

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	342.00 - 342.05 - GOUGE GREY AT 45° TO C.A. 2 CM AT TOP OF GREYISH GREEN ANDESITE DYKE. BOTTOM CONTACT 35° TO CA.
	342.85 - 343.01 -- GOUGE & GREYISH ROCK FLOUR. FAULT 45° TO CA. TOP 70° TO CA. BOTTOM HIGHLY CLAY ALTERED MAY BE DYKE?
	343.25 - 343.32 - FAULT GOUGE BLACK.
	343.40 - 343.50 FAULT GOUGE BLACK & GREY.
	343.80 - 344.04 FAULT GOUGE
	344.33 CONTACT
344.35 - 347.02	LIGHT GREEN APHANITIC - ANDESITE DYKE. FINE FELDSPARS ALTERED TO GREY MINERALS ? IN LIGHT GREEN ALTERED GROUNDMASS. WEAK CARBONATE VEINING. HIGHLY FAULTED & CONTAINING 20 CM SECTION OF BLACK ARGILLITE CONTAINING NUMEROUS CALCITE - CARBONATE VEINS.
	344.83 - 345.52 FAULT GOUGE WITH 20 CM SECTION OF BLACK ARGILLITE. GOUGE ZONE CONTACTS APPEAR TO BE ~ 45° TO CA AS DOES SHEARING AT CONTACTS WITH INCLUDED ARGILLITE. ARGILLITE 345.00 - 345.22
347.02 - 356.32	BLACK ARGILLITES, SLIGHTLY SILICIFIED IN PLACES & CONTAINING SOME LIGHTER GREENISH - BUFF BANDS OF SLIGHTLY SANDY TEXTURE PROBABLY TUFFS. BEDDING EITHER 45 AND/OR 60° TO CA. ARGILLITES ARE INTENSELY TO STRONGLY VEINED BY CARBONATE.
	348.97 SLIP PLANE 30° TO CA.
	349.15 - 349.60 LIGHT GREEN ANDESITE DYKE. WITH FAULTING AT 349.35 - 349.40 45° TO CA. UPPER CONTACT 65° TO CA LOWER CONTACT 60° TO CA. INCLUDES SMALL SECTION OF BLACK ARGILLITE.

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	350.16 - 2 cm GOUGE. 30° TO CA.
	350.80 - 352.90 GOUGE & BROKEN ARGILLACEOUS ALTERED ROCK
	356.32 LOWER CONTACT 66° TO CA
326.32 - 362.02	LIGHT GREEN AMPHIBOLE ANDESITE DYKES WITH ALTERNATING SECTIONS OF DARK ARGILLITE. SECTION HEAVILY FAULTED WITH AT LEAST 50° WATERING GOUGE. MAJORITY OF ROCK APPEARS TO BE HEAVILY CHLORITE ALTERED AMPHIBOLE ANDESITE DYKE WITH 25-30% DARK ARGILLITE. HEAVILY VEINED BY CALCITE. ANDESITE SECTIONS HEAVILY VEINED BY CALCITE MOST GOUGE WHERE SHEARING. (FAULT ZONE)
	356.92 - 357.18 GOUGE. LIGHT GREEN 40° TO CA
	357.18 - 357.65 BLACK ARGILLITE
	357.65 - 358.25 GOUGE LIGHT GREEN. @ 45° TO CA.
	358.25 - 358.93 ARGILLITE.
	358.41 - 359.04. GOUGE HEAVILY LIGHT GREEN ANDESITE MINOR ARGILLITE 2-3 cm O.V EDGES. 56° TO CA.
	359.04 - 359.52 BLACK ARGILLITE
	359.30 - 360.78 GOUGE MEDIUM GREY COLOR.
	360.78 - 361.19. BLACK ARGILLITE WITH 10 cm GOUGE AT 361.00 62° TO CA.
	361.19 - 361.98. LIGHT GREEN. GOUGE.
	361.19 - 361.60 LIGHT GREEN ANDESITE DYKE. INCLUSION OF BLACK ARGILLITE BOTTOM CONTACT 60° TO CA.

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	361.60 - 361.77 BLACK ARGILLITE
	361.77 - 362.02 GOUGE BLACKISH - BROWN. 80° TO C.A.
362.02-369.72	MAINLY BLACK ARGILLITE WITH LIGHTER SANDIER TUFFACEOUS LAYERS AND SHORT SECTIONS OF LIGHT GREEN. ALTERNATING ANDESITE DYKES. ARGILLITES STRONGLY VEINED BY CARBONATE. SOME SECTIONS BRECCIATED & [illegible]. TOP SECTION TO 366.00m CONTAINS MORE OR MANY OF THE LIGHTER BANDS OR BEDS OF SANDY? TUFFACEOUS? MATERIAL. BEDDING 45° TO C.A. SOME SECTIONS IN THIS TOP SECTION APPEAR TO BE PARTIALLY BLEACHED AND OR HYDROTHERMALLY ALTERED. MAY BE BECAUSE OF ANDESITE DYKES AS HEAT SOURCE.
	365.74 - 366.00 DYKE OF LIGHT GREEN ANDESITE CLAY ALTERED. TOP CONTACT 65° TO CA. BOTTOM CONTACT 40° TO CA. CONTACTS IN OPPOSING DIRECTIONS.
	369.72 END OF HOLE.

Hole 2000-5

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		Lot		Total Depth	275.54	
Date Started	MAY 24 2000	Dep	-60	Logged By	JRD	
Date Finished		Bearing	045	Core Size	NQ	
		Elev. Collar				

Dip Test		
	Angle	
Meterage	Reading	Corrected

1725 E 4836N

Depth	Description
0 - 67.67	OVERBURDEN
67.67 - 71.75	GOUGE FAULT ZONE WITH 1 M SECTION OF DARK GREEN APHANITIC TO FINE GRAINED ANDESITE PROBABLY TERTIARY.
	71.75 LOWER CONTACT SHEARED ANDESITE OF FOLLOWING UNIT 67° TO CA.
71.75 - 74.00	DARK GREEN APHANITIC TO FINE GRAINED DYKE PROBABLY TERTIARY IN AGE. ANDESITE WEAKLY VEINED BY CALCITE & CARBONATE. CONTAINING THE OCCASIONAL FRAGMENT OF NICOLA? ANDESITE AND VOLCANIC SEDIMENTS ANGULAR TO ROUNDED. OCCASIONAL SPECK OF PYRITE << 1%
	74.00 LOWER CONTACT 60° TO CA.
74.00 - 75.12	MEDIUM GREEN NICOLA FRAGMENTAL ANDESITE, WELL FRACTURED & BROKEN. CHLORITIZED AND PARTIALLY CLAY ALTERED IN SHORT SECTIONS. ALTERATION WEAK - MODERATE PERVASIVE. NO OBSERVED SULPHIDES OR OXIDES.
	75.12 LOWER CONTACT MINOR GOUGE SURFACE 65° TO CA.
75.12 - 75.65	DARK GREEN TO BLACK APHANITIC ANDESITE DYKE WITH INCLUSIONS OF NICOLA VOLCANICS. ~5 TO 7% SULPHIDES IN SECTION. MAINLY AS REPLACEMENTS & FINE DISSEMINATIONS OF MATRIX IN NICOLA [illegible] PORPHYRY FRAGMENTS. SOME PYRITE AS STRINGERS & SMALL PODS WITHIN ANDESITE. SOME STRESS?? FRACTURES PARALLELING THE CONTACTS OF DYKE. ALL SULPHIDES APPEAR TO BE PYRITE. CALCITE VEINLETS THROUGHOUT IN MODERATE CONCENTRATION.

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95.65-121.46	MEDIUM GREEN, BUFF/GREY COLORED & PURPLISH FRAGMENTAL ANDESITE QUADDLITICALLY ALTERED (MAFIC TO CHLORITE) WITH VERY WEAK ALTERATION OF FERROMAGNESIAN EXCEPT IN AREAS OF FAULTING & GOUGE. CALCITE-CARBONATE VEINING. WEAK. FRAGMENTS UP TO 10 cm LONG AND MAY BE ANGULAR TO SUB ROUNDED. OCCASIONAL SPECKS OF PYRITE, MAGNETITE & HEMATITE, WEAK FRACTURED. OCCASIONAL HEMATITE STAIN PLANAR OR FRACTURE WITH CARBONATE.
	98.83-99.05 GOUGE & CRUSHED ROCK 43° TO CA.
	99.55-99.70 GOUGE & CRUSHED ROCK 58° TO CA
	81.10-82.80 GOUGE, CRUSHED ROCK, LOST CORE, BROKEN ROCK WITH SHORT SECTIONS OF SOLID CORE TO 10 cm LONG. MAIN SHEAR GOUGE CONTACT 65° TO CA. HEMA BOTTOM OF GOUGE SECTION
	85.55 CONTACT BETWEEN TWO FRAGMENTAL ANDESITE UNITS 47° TO CA GREENISH TOP, PURPLE MATRIX BOTTOM.
	86.90. BANDING OR NARROW 3-5 cm DYKE 67° TO CA.
	90.26 - GOUGE 1-3 cm. CARBONATE VEINING BROKEN 41° TO CA.
	92.80 GROUND CORE.
	93.25-93.70 GROUND CORE, BROKEN ROCK & GOUGE
	95.30-96.01 BROKEN ROCK, CRUSHED ROCK GOUGE HEMATITE PYS.
	96.70-96.80 BROKEN ROCK, CRUSHED ROCK & GOUGE HEMATITE PYS.
	100.45. 3-4 cm GOUGE ZONE 45° TO CA.
	102.65 5 cm GOUGE 70° TO CA.
	102.90 7 cm DARK GREEN ANDESITE DYKE TERTIARY? 60° TO CA

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	104.60 - PURPLISH ANHYDRITE TO WEAK FELDSPAR PORPHYRY DYKE TERTIARY? WITH 1 cm CALCITE VEIN. 5 cm WIDE 57° TO CA.
	104.96 - 105.10 GOUGE & BROKEN ROCK. 45°? TO CA.
	105.35 - 107.95 SERIES OF SMALL SHEAR GOUGE ZONES & SLIP PLANES 1 mm TO 3 cm WIDE 30 - 45° TO CA.
	110.23 - 110.57. SEVERAL (3-4) DARK GREEN CHLORITE VEINS. 23° TO CA TOP FOLLOWED BY SEVERAL (5-6) UP TO 1 cm CARBONATE VEINS. & 2 SLIP PLANES 45° TO CA FOLLOWED BY 10 cm OF GOUGE, WITH BOTTOM CONTACT AT 72° TO CA.
	111.35 - 111.40. GOUGE & BROKEN CRUSHED ROCK.
	112.60 2 cm GOUGE ON 1 cm CARBONATE VEIN. 53° TO CA.
	112.80 - 113.60. BROKEN ROCK SOME GOUGE SECTIONS.
	114.17 GOUGE FRACTURE 53° TO CA, HEMATITIC FOLLOWED BY SEVERAL HEMATITIC FRS.
	117.14. CALCITE VEINED SLIP PLANES, SOME ALTERATION & BLEACHING FOR 10 cm ABOVE VEINING & SLIPS 40° TO CA.
	119.30 - 121.46. SOME BLEACHING. CLAY ALTERED FELDSPARS & MATRIX TO WEAK TO MODERATE, MAFICS TO CHLORITE. NUMBER OF SHEARS & GOUGE ZONES. TO SEVERAL CMS. CALCITE VEINING & BROKEN VEINS PROMINENT. 119.30 TOP CONTACT CARBONATE VEIN & GOUGE 10 cm 45° TO CA. 121.46 BOTTOM CONTACT 3 cm GOUGE ZONE 70° TO CA.
121.46 - 122.62.	LIGHT GREY FINE GRAINED LIMESTONE BRECCIATED IN PART WITH STRESS FLOWS IN BOTTOM 1/2 OF SECTION. ~ 50° TO CA. NO SULPHIDES PRESENT

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122.62 – 126.82	LIGHT GREY TO BUFF GREY FRAGMENTAL TUFFACEOUS (CRYSTAL) SYENITE CONTAINING MAINLY ANGULAR FRAGMENTS OF 1mm – 3mm SIZE SOME ROUNDED SOME INDIVIDUAL CRYSTALS OF FELDSPAR ALSO CONTAINS OCCASIONAL FRAGMENT OF QUARTZ. CONTAINS LARGE UP TO 7mm FRAGMENTS OF GREY LIMESTONE OCCASIONAL CALCITE VEIN OR VEINLET GENERALLY 1–3mm WIDE. MATRIX AND SOME FELDSPAR PHENOCRYSTS SLIGHTLY TO MODERATELY CLAY ALTERED BUT HAS FRESH ALTHOUGH SOMEWHAT BLEACHED APPEARANCE. NO SULPHIDES WERE OBSERVED IN THIS COMPETENT RELATIVELY UNFRACTURED ROCK.
	126.82 LOWER CONTACT
126.82 – 128.00	DARK ARGILLITE SEDIMENTS MIXED WITH GREY – BUFF SEDIMENTS, TUFFS. WAVY BANDING OR BEDDING UNEVEN TOP & BOTTOM TO UNIT. MINOR FRAGMENTALS. BEDDING OR BANDING 60 – 80° TO CA. NO SULPHIDES PRESENT
	127.74 – GOUGE ZONE 1 cm. 20° TO CA.
128.00 – 128.90	LIGHT GREY TO PALE GREENISH FRAGMENTAL SYENITE (TUFF?) AS DESCRIBED 122.62 – 126.82 EXCEPT NO LIMESTONE FRAGMENTS. SOME WHITE QUARTZ-CALCITE FRAGMENTS. PYRITE OVER 10 cm IN MIDDLE OF SECTION UP TO 3% WITH SOME OF THE QUARTZ & CALCITE FRAGMENTS. LIGHT GREENISH TINGE IS CAUSED BY THE COMPLETE ALTERATION OF SOME FELDSPAR TO SERICITE.
	128.90 LOWER CONTACT 45° TO CA ON 2cm OF GOUGE.
128.90 – 133.76	HIGHLY ALTERED (CLAY) IN SHEARED, FAULTED SECTION WITH NUMEROUS SHEARS 1 – 10 cm. CRUSHED ROCK & NUMEROUS CARBONATE VEINS, SOME SECTIONS PINKISH GREYISH. BLEACHED & ALTERED. ALL ANDESITIC IN ORIGINAL COMPOSITION. CARBONATE – CALCITE VEINS TO 1cm. FAULT OR SHEAR GOUGE PLANES 45, 30, 15, 70
	TOP & BOTTOM OF MAJOR SHEARING ZONE 45° TO CA

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133.76 - 144.08	BLEACHED, BRECCIATED & REHEALED PURPLISH & GREENISH ANDESITIC FRAGMENTAL VOLCANICS. MODERATE - STRONG CARBONATE - CALCITE VEINING. REHEALED BREAKS OF GROUND ROCK. SOME FAIRLY SOFT BUT NOT GOUGE. SOME CRACKING BUT COMPETENT TO FAIRLY COMPETENT ROCK. HYDROTHERMAL ALTERATION. ROCK IN PLACES MODERATELY TO STRONGLY CLAY ALTERED WHILE IN SOME SHORT SECTIONS ONLY MAFICS ARE ALTERED TO CHLORITE. MINOR IDENTIFIABLE SHEARS. NO SULPHIDES SEEN. MINOR < 3% MAGNETITE AND OR HEMATITE IN SPOTS.
	143.60 - 143.64. GOUGE SHEAR ZONE 68° TO CA
	144.08 SHEAR GOUGE ALONG LOWER CONTACT 30° TO CA
144.08 - 145.05	FAULT GOUGE TOP 30° TO CA BOTTOM. 80° TO CA.
145.05 - 230.00	DARK GREEN ANDESITIC VOLCANICS. MAFICS ALTERED TO CHLORITE, NO ALTERATION OF FELDSPAR PHENOCRYSTS WHICH ARE 1-3mm IN SIZE. SOME CRYSTALS OF [altered] FELDSPAR OCCASIONALLY WHICH LEADS TO A PINKISH (FELDSPARS WITH HEMATITE STAINING?) IN DARK GREEN GROUNDMASS. OCCASIONAL HEMATITE PURPLISH MASS UP TO 20cm. 1-3% MAGNETITE DISSEMINATED. THROUGHOUT CALCITE - CARBONATE VEINING WEAK TO MODERATE WITH MODERATE TO STRONG CONCENTRATIONS NEAR SHEARING AND WEAKLY BLEACHED (LIGHTER GREEN) SECTIONS. THESE BLEACHED SECTIONS ALSO CONTAIN WEAK CLAY ALTERED FELDSPARS. ANDESITE VOLCANICS, TUFFS, FLOWS & FRAGMENTALS SOME WEAK BANDING OR BEDDING NEAR BEGINNING OF SECTION
	148.00 - 148.10 SHEAR GOUGE ZONE CLAY ALTERED. 38° TO CA
	149.24 - 149.38. CLAY ALTERED BLEACHED ZONE SOME SHEARING & CARBONATE VEINING 33° TO CA.

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150.92 1 cm GOUGE CRUSHED ROCK 25° TO CA.

151.53 - 151.72 2 SHEARS, MILLIMETRE GOUGE CRUSHED & ALTERED ZONE CALCITE VEINING 58° TO CA.

151.97 - 152.04 - CRUSHED ROCK ZONE WEAKLY ALTERED & OXY ALTERED 45° TO CA.

159.35 2 cm GOUGE CRUSHED ROCK

164.80 2 cm GOUGE 40° TO CA. SOME HEMATITE IN FRAG.

168.10 - 173.20 SHORT SECTIONS OF GOUGE, OXY ALTERED (WEAK) CALCITE VEINING SHEARING. AND SECTIONS OF SOLID ROCK UP TO 1 METRE. GOUGE UP TO 30 cm. WIDE MANY AT 1-5 cm. ANGLES 30 TO 80° TO CA. MOST PREDOMINANTLY BETWEEN 70 & 80° TO CA.

172.47 - 172.63 BLEACHED ZONE LIGHT GREY WITH 2 cm PURPLE TERTIARY? DYKE & SOME SYENITE DYKE MATERIAL 3-5 cm. MINOR EPIDOTE PRESENT ON SECTIONS AS VEINS. AT DARK GREEN LAMPROITE & LIGHT GREEN SYENITE SOME SILICIFICATION IN SECTIONS. NO SULPHIDES.

176.00 - 176.86. SHORT SECTIONS OF SHEARING, BROKEN ROCK MINOR CLAY ALTERATIONS. NUMEROUS CALCITE VEINS. CRUSHED ZONES RECEMENTED.

178.53 2 cm QTZ CALCITE VEIN. 45° TO CA

178.90 - 180.09 BROKEN ROCK, CRUSHED ROCK & GOUGE. BOTTOM CONTACT 64° TO CA

182.55 5 cm CRUSHED ROCK.

184.40 - 189.00 - CRUSHED ROCK SHEARS ON UNIT TOPPING, GOUGE ZONES & SECTIONS OF SOLID ROCK. CALCITE VEINS HEMATITE UP TO 1 cm WIDE VEINS APPEAR TO BE 45 & 70° TO CA WITH 70° TO CA. THE MOST PROMINENT.

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	181.40 BANDING IN CORE 70° TO CA
	190.25' 3 cm GOUGE & CRUSHED ROCK WITH CALCITE VEINS 70° TO CA & 30° TO CA.
	190.55' 3 cm CARBONATE (CALCITE) VEIN 60° TO CA
	190.15' 3 cm GOUGE - CLAY ALTERED CARBONATE 25° TO CA.
	192.50 - 194.18. BLEACHED CARBONATED, VEINED BY NUMEROUS CALCITE VEINS SOME SLIGHT SHEARING WITH 10 cm SHEAR 193.45' - 193.55' @ 70° TO CA.
	194.63 SHEAR GOUGE PARRE 52° TO CA
	194.80 - 194.85' SHEAR, GOUGE & 2 cm CARBONATE VEIN. 45° - 60° TO CA. SOME BRECCIATION BY CARBONATE.
	195.70 - 10 cm BLEACHING - CLAY ALTERATION, CARBONATIZATION & 2 micro SHEARS 68° TO CA.
	197.15' 3 cm CRUSHED ROCK. 60° TO CA
	197.50 - 197.55' CRUSHED ROCK CARBONATE VEINS & SLIGHT BLEACHING 70° TO CA
	197.64 - 197.83 CRUSHED ROCK MINOR SHEARING 55° TO CA. SOME CARBONATIZATION.
	199.00 3 cm CARBONATE - CALCITE VEIN. 70 - 80° TO CA.
	199.28 - 200.96 A NUMBER OF SMALL CARBONATE VEINS UP TO 7 cm WIDE. & NUMEROUS SMALL CARBONATE VEINS, SOME GOUGE & SHEARING. 65° - 75° TO CA. MOST PROMINENT VEINS & SHEARS 65° TO CA.
	208.25' - 208.72 STRONG CARBONATE VEINING BRECCIATION & REPLACING WITH MINOR SHEARS 1 cm TO A GOUGE @ 40° & SAW PARRE BOTTOM. AT 50°

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	208.99 - 210.00 WEAKLY BLEACHED & ALTERED ZONE WITH CARBONITIZATION NUMEROUS CALCITE - CARBONATE VEINLETS & QUARTZ VEINS UP TO 3-4 CM WIDE. WEAK SHEARING OR CRUSHED ROCK ZONE 40° TO CA AT 209.53 M. 4CM CARBONATE VEIN 52° TO CA AT 209.80.
	212.43 - 212.56. CARBONATE VEINING, CARBONITIZED ROCK, BLEACHING, MINOR SHEARING. 45° TO CA.
	213.36 - 213.66 CRUSHING & MINOR SLIP PLANES WEAK CARBONATE VEINING SHEAR PLANES 60° TO CA
	226.28 - 228.08 - ZONE OF FAULTING, NUMBER OF SMALL SHEARS CARBONATE - CALCITE VEINING & WEAK BLEACHING & CARB ALTERATION IN SPOTS. CALCITE CARBONATE VEINING UP TO 3 CM WIDE BRANCHING & MASSIVE RUBBLE [illegible] ROCK. SHEARING 25° TO 75° TO CA. 75° TO CA MOST PROMINENT
	228.34 - 228.53. CARBONATE VEINING SHEARING CARB ALTERATION, SOME SERICITE DEVELOPED VEINING 65° & SHEARING 72° TO CA.
	230.00 LOWER CONTACT LOW CARBONATE VEIN. 50° TO CA
230.00 - 234.45	DARK GREEN TO ALMOST BLACK OLIVINE BASALT. 2-3 MM PHENOCRYSTS OF GREEN CRYSTALLINE OLIVINE AND BLACK AUGITE PHENOS. ANHEDRAL TO EUHEDRAL IN VERY DARK GREEN TO BLACK MATRIX (AMYGDALOIDAL) OLIVINE 5-10% AUGITE 5-10%, FRAGMENTS WITHIN OLIVINE BASALT OLIVINE BASALT AND SOME ANDESITE MAJORITY OLIVINE BASALT. NO VISIBLE SULPHIDES. FEW CARBONATE VEINS OR VEINLETS POORLY FRACTURED. HARD. ZONE ENDS IN THE FAULT ZONE NOTED BELOW. SOME MINOR SHEARING AT BOTTOM OF ZONE (CRUSHED ROCK)
234.45 - 234.70	FAULT - GOUGE ZONE SOME CARBONATE VEINING STRONG SHEAR DIRECTION 45° TO CA.

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234.70 - 235.50	REHEALED FAULT ZONE? MAINLY ANDESITES BUT BASALT (OLIVINE) FRAGMENTS WITHIN. NUMEROUS CALCITE - CARBONATE VEINS SOME STRESS OR [illegible] OF VEINS & ROCK ALTERATION WERE [illegible] AT 45° TO CA. SOME SHORT SECTIONS OF SOLID UNDISTURBED ROCK & LOWER 15 cm OF SECTION STRESSED & VEINED IN DIFFERENT DIRECTION TO CA. 80°
235.50 - 275.54	DARK GREEN ANDESITIC VOLCANICS AS DESCRIBED IN SECTION 75.65 TO 234.45 m. CARBONATE VEIN ZONES ARE FEWER THAN NUMBER THAN IN ANDESITIC SECTION ABOVE BUT ZONES ARE WIDER. VEINING MORE [illegible] IN FAULTS OR REHEALED CEMENTED FAULTS. SOME MINOR PYRITE 1-3% FOUND IN SOME OF WIDER CARBONATE ZONES.
	247.39 - 247.51 GOUGE ZONE 65° TO CA. BOTTOM.
	248.73 - 249.28 REHEALED & CEMENTED BY CARBONATE VEINING. ZONE CONTAINS A NUMBER OF LARGE BRANCHING CARBONATE - CALCITE VEINS & SOME VEINS 75° TO CA. BLEACHED ZONE - CLAY ALTERED (WEAK) - CONTAINING 1-3% FINE DISSEMINATED PYRITE SAMPLE 89260
	251.25 - 251.63 - REHEALED & CEMENTED FAULT WITH SOME RE SHEARING & CONTAINING NUMEROUS CARBONATE VEINS SOME BROKEN. CONTAINS A SMALL AMOUNT OF PYRITE 1% OR LESS CONTACTS TO ZONE 75° TO CA SAMPLE 89261
	255.84 - 255.89 GOUGE ZONE 80° TO CA
	259.42 - 259.85 BLEACHED PARTIALLY CLAY ALTERED ZONE CARBONATE VEINING DEVELOPMENT OF SOME SERICITE. CHANGE TO LIGHT GREEN IN COLOR. NO SULPHIDES MINOR SHEAR. AT TOP WAVY AT 70° TO CA BOTTOM 30° TO CA <1% pyrite SAMPLE 89262

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	259.85 - 260.70 NUMBER OF SMALL SHEAR GOUGE ZONE DRILLING BROKEN ROCK WITH TWO .5 + 2 CM GOUGE ZONES IN BOTTOM 10 cm. AT CORE 72° TO CA.
	271.40 - 271.95 BROKEN ROCK, MINOR GOUGE SOME SLIP PLANES HEMATITE. FAULT ZONE. ROCK
	275.20 - 275.59 BROKEN ROCK, MINOR GOUGE FAULT ZONE.?
	275.59 END OF HOLE.

APPENDIX B: Analytical Results and Analytical Procedures

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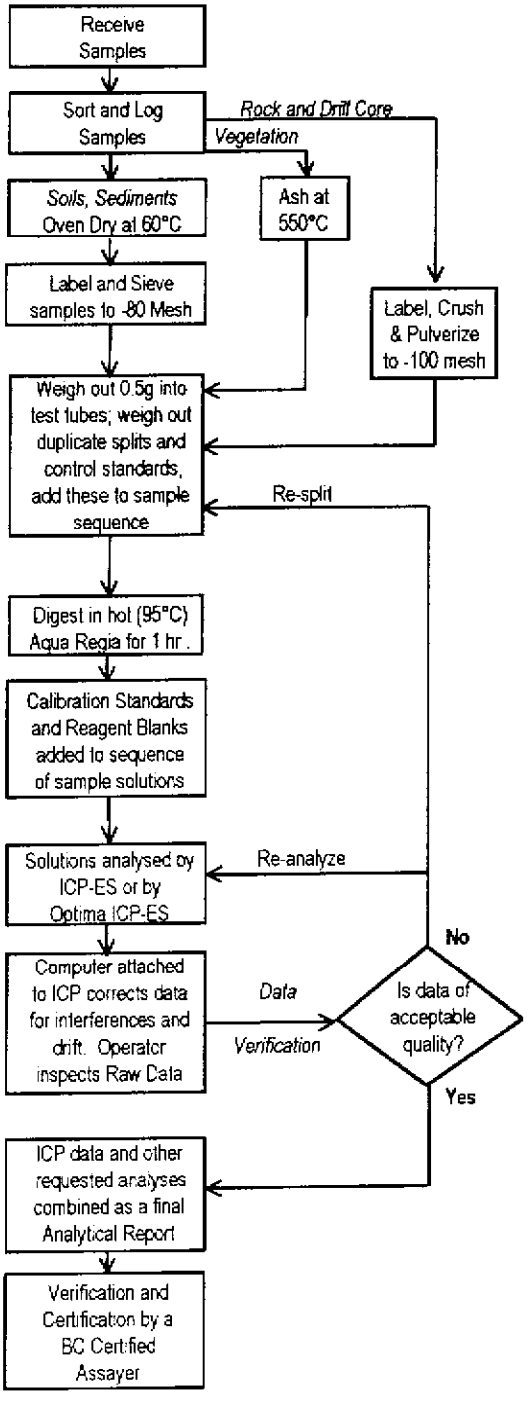
ISO 9002 REGISTERED

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

Analytical Process



Comments

Sample Preparation

Soils and sediments are dried (60°C) and sieved to -80 mesh (-177 µm), rocks and drill core are crushed and pulverized to -150 mesh (-100 µm). Vegetation is dried (60°C) and pulverized or dry ashed (550°C). Moss-mat samples are dried (60°C), pounded then sieved to recover -80 mesh sediment or ashed at 550°C then sieved to -80 mesh with potential loss by volatilization of Hg, As, Sb, Bi and Cr. Aliquots of 0.5 g are weighed into test tubes. Duplicate aliquots are taken from two samples in each batch of 34 samples to measure precision. An aliquot of sample standard STD C3 is added to each batch to monitor accuracy.

Sample Digestion

Aqua Regia is a 2:2:2 mixture of ACS grade conc. HCl, conc. HNO_3 and demineralized H_2O. Aqua Regia is added to each sample and to two empty reagent blank test tubes in each batch of samples. Sample solutions are digested for 1 hr in a boiling hot water bath (95°C).

Sample Analysis

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

Group 1DX: sample solutions are aspirated into a Perkin Elmer Optima 3300 Dual View ICP emission spectrograph to determine 35 elements: Ag, Al, As, Au, B, Ba, Bi, Ca, Cd, Co, Cr, Cu, Fe, *Ga*, *Hg*, K, La, Mg, Mn, Mo, Na, Ni, P, Pb, *S*, Sb, *Sc*, *Tl*, Sr, Th, Ti, U, V, W, Zn.

Data Evaluation

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

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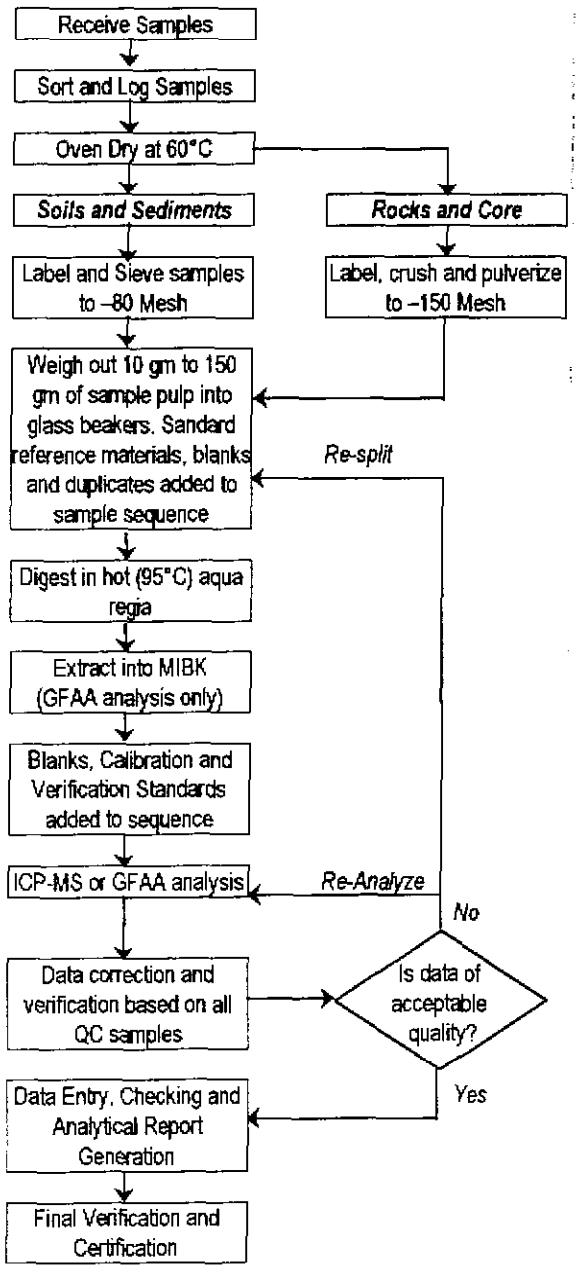
METHODS AND SPECIFICATIONS FOR ANALYTICAL PACKAGE
GROUP 3A - AU BY WET EXTRACTION

Analytical Process



Comments

Sample Preparation

Soils and sediments are dried (60°C) and sieved to -80 mesh (-177 microns), rocks and drill core are crushed and pulverized to 95% -150 mesh (-100 microns). Plant samples are dried (60°C), pulverized or ashed (550°C). Sediment in moss mats is recovered by disaggregating and sieving to -80 mesh. Sample splits of 10 gm to 150 gm are weighed into glass beakers. Duplicate splits of crushed (*reject duplicate*) and pulverized (*pulp duplicate*) material included in every 34 drill core or trench samples define preparation (reject duplicate) and analytical precision (pulp duplicate). Duplicate pulp splits (only) are included in every batch of soil, sediment and routine rock samples. A blank and in-house standard reference material STD FA-100 are carried through all stages of the analytical methodical to monitor accuracy. STD FA-100 has been certified in-house against certified reference materials.

Sample Digestion and Extraction

Aqua Regia is a 2:2:2 mixture of ACS grade conc. HCl, conc. HNO_3 and distilled H_2O. Aqua Regia is added to each sample and to the empty reagent blank test tube in each batch of samples. Sample solutions are heated for 1 hr in a boiling hot water bath (95°C). For Graphite Furnace AA analysis, MIBK is added and the samples are shaken to extract Au into the MIBK phase.

Sample Analysis

ICP-MS (Perkin Elmer Elan 6000) analysis is conducted on the acid solution to determine Au ± Pt. Graphite furnace AAS (Varian model SpectrAA 10Plus) is conducted on the MIBK extract to determine Au.

Data Evaluation

Raw and final data undergoes a final verification by a British Columbia Certified Assayer who must sign the analytical report before release to the client. Chief assayer is Clarence Leong, other certified assayers are Dean Toye and Jacky Wang..

ACME ANALYTICAL LABORATORIES LTD. (ISO 9002 Accredited Co.) 852 E. HASTINGS ST. VANCOUVER BC V6A 1R6 PHONE(604)253-3158 FAX(604)253-1716

GEOCHEMICAL ANALYSIS CERTIFICATE

Lakewood Mining File # A001553

2245 W. 13th Ave, Vancouver BC V6K 2S4 Submitted by: John Deighton

SAMPLE#	Mo ppm	Cu ppm	Pb ppm	Zn ppm	Ag ppm	Ni ppm	Co ppm	Mn ppm	Fe %	As ppm	U ppm	Au ppm	Th ppm	Sr ppm	Cd ppm	Sb ppm	Bi ppm	V ppm	Ca %	P %	La ppm	Cr ppm	Mg %	Ba ppm	Ti %	B ppm	Al %	Na %	K %	W ppm	Au* ppb
B 89251	2	8	4	39	<.3	6	12	833	1.95	156	<8	<2	<2	232	.3	<3	<3	30	24.71	.039	2	3	2.00	7	<.01	<3	.15	.01	.03	<2	.3
B 89252	2	49	3	52	<.3	13	13	872	3.61	16	<8	<2	<2	185	.7	<3	6	92	13.02	.095	6	29	.54	105	<.01	3	.32	.04	.06	<2	.6
B 89253	1	16	12	31	<.3	5	6	3013	1.54	90	<8	<2	<2	235	<.2	<3	<3	36	27.90	.053	2	4	1.10	8	<.01	<3	.14	.01	.04	<2	.3
B 89254	4	79	8	74	<.3	14	16	1247	4.75	72	<8	<2	<2	123	.5	<3	<3	120	8.48	.088	5	20	3.28	58	<.01	5	.47	.01	.07	<2	2.5
B 89255	3	60	9	45	<.3	10	13	1192	3.52	50	<8	<2	<2	221	.8	6	5	85	12.42	.057	2	25	4.87	62	<.01	<3	.32	.01	.02	<2	1.5
B 89256	<1	50	5	48	<.3	11	13	1282	4.11	257	<8	<2	<2	137	.6	4	3	82	12.49	.048	2	14	4.85	18	<.01	<3	.29	.02	.06	<2	1.0
B 89257	1	53	<3	57	<.3	13	19	1446	4.48	142	<8	<2	<2	151	.3	<3	<3	111	11.59	.061	3	16	4.36	9	<.01	<3	.34	.01	.04	<2	2.5
B 89258	<1	43	6	52	<.3	9	15	1252	3.85	19	<8	<2	<2	116	.4	<3	<3	142	7.72	.074	3	19	2.76	13	<.01	<3	.50	.02	.07	<2	3.3
RE B 89258	<1	44	<3	52	<.3	10	15	1275	3.91	20	9	<2	<2	118	.5	<3	<3	144	7.84	.075	3	23	2.80	14	<.01	6	.51	.01	.07	<2	2.5
STANDARD C3/DS2	27	66	36	175	5.7	38	12	816	3.48	62	21	3	23	30	25.5	20	27	81	.61	.093	19	172	.62	154	.10	26	1.89	.04	.16	17	199.1
STANDARD G-2	1	3	<3	42	<.3	8	4	546	2.07	2	<8	<2	4	75	<.2	<3	<3	38	.67	.099	8	78	.59	223	.14	3	.92	.08	.45	<2	-

GROUP 1D - 0.50 GM SAMPLE LEACHED WITH 3 ML 2-2-2 HCL-HNO3-H2O AT 95 DEG. C FOR ONE HOUR, DILUTED TO 10 ML, ANALYSED BY ICP-ES.
UPPER LIMITS - AG, AU, HG, W = 100 PPM; MO, CO, CD, SB, BI, TH, U & B = 2,000 PPM; CU, PB, ZN, NI, MN, AS, V, LA, CR = 10,000 PPM.
ASSAY RECOMMENDED FOR ROCK AND CORE SAMPLES IF CU PB ZN AS > 1%, AG > 30 PPM & AU > 1000 PPB
- SAMPLE TYPE: CORE AU* BY ACID LEACHED, ANALYZE BY ICP-MS. (10 gm)
Samples beginning 'RE' are Reruns and 'RRE' are Reject Reruns.

DATE RECEIVED: MAY 23 2000 **DATE REPORT MAILED:** June 1/00 **SIGNED BY.** D. TOYE, C.LEONG, J. WANG; CERTIFIED B.C. ASSAYERS

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ACME ANALYTICAL LABORATORIES LTD. (ISO 9002 Accredited Co.) 852 E. HASTINGS ST. VANCOUVER BC V6A 1R6 PHONE(604)253-3158 FAX(604)253-1716

GEOCHEMICAL ANALYSIS CERTIFICATE

Lakewood Mining PROJECT CAMP File # A001672

2245 W. 13th Ave, Vancouver BC V6K 2S4 Submitted by: John Deighton

SAMPLE#	Mo ppm	Cu ppm	Pb ppm	Zn ppm	Ag ppm	Ni ppm	Co ppm	Mn ppm	Fe %	As ppm	U ppm	Au ppm	Th ppm	Sr ppm	Cd ppm	Sb ppm	Bi ppm	V ppm	Ca %	P %	La ppm	Cr ppm	Mg %	Ba ppm	Ti %	B ppm	Al %	Na %	K %	W ppm	Au* ppb
E 89259	<1	44	11	63	<.3	2	9	2052	2.26	5	<8	<2	<2	344	.6	<3	<3	42	18.94	.041	2	3	5.74	20	<.01	6	.48	.05	.07	2	3.1
E 89260	<1	163	12	77	<.3	22	19	2185	2.78	27	<8	<2	<2	160	.7	<3	<3	126	14.14	.125	6	49	.98	1077	<.01	8	1.36	.09	.08	2	4.1
E 89261	1	75	6	29	<.3	11	12	2830	1.26	67	<8	<2	<2	219	.3	<3	<3	60	17.96	.090	3	19	.53	424	<.01	10	.89	.10	.12	2	2.8
E 89262	<1	86	8	40	<.3	10	18	2122	1.53	63	<8	<2	<2	175	.4	9	<3	61	20.08	.093	3	6	.79	17	<.01	11	.56	.05	.12	<2	3.3
RE E 89262	<1	87	7	41	<.3	11	18	2137	1.55	64	<8	<2	<2	178	.5	10	<3	62	20.27	.095	4	6	.79	17	<.01	12	.58	.05	.12	<2	3.7

GROUP 1D - 0.50 GM SAMPLE LEACHED WITH 3 ML 2-2-2 HCL-HNO3-H2O AT 95 DEG. C FOR ONE HOUR, DILUTED TO 10 ML, ANALYSED BY ICP-ES.
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ASSAY RECOMMENDED FOR ROCK AND CORE SAMPLES IF CU PB ZN AS > 1%, AG > 30 PPM & AU > 1000 PPB
- SAMPLE TYPE: CORE AU* BY ACID LEACHED, ANALYZE BY ICP-MS. (10 gm)
Samples beginning 'RE' are Reruns and 'RRE' are Reject Reruns.

DATE RECEIVED: JUN 2 2000 **DATE REPORT MAILED:** June 13/00 **SIGNED BY** .....D. TOYE, C.LEONG, J. WANG; CERTIFIED B.C. ASSAYERS

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STATEMENT OF COSTS

Drilling program on the Wood Mineral Claim group, from April 11, 2000 to May 31, 2000

D.D.H. #1, #2, #3, #4, #5:		
Total 1448.75 m	@ $65	$ 94,120.00
Geologist's Fee		8,757.24
Supervision expenses		2,704.39
		$105,581.63

PLEASE NOTE THAT ADDITIONAL ASSESSMENT WILL BE RECORDED ON THE WOOD GROUP AT A LATER DATE