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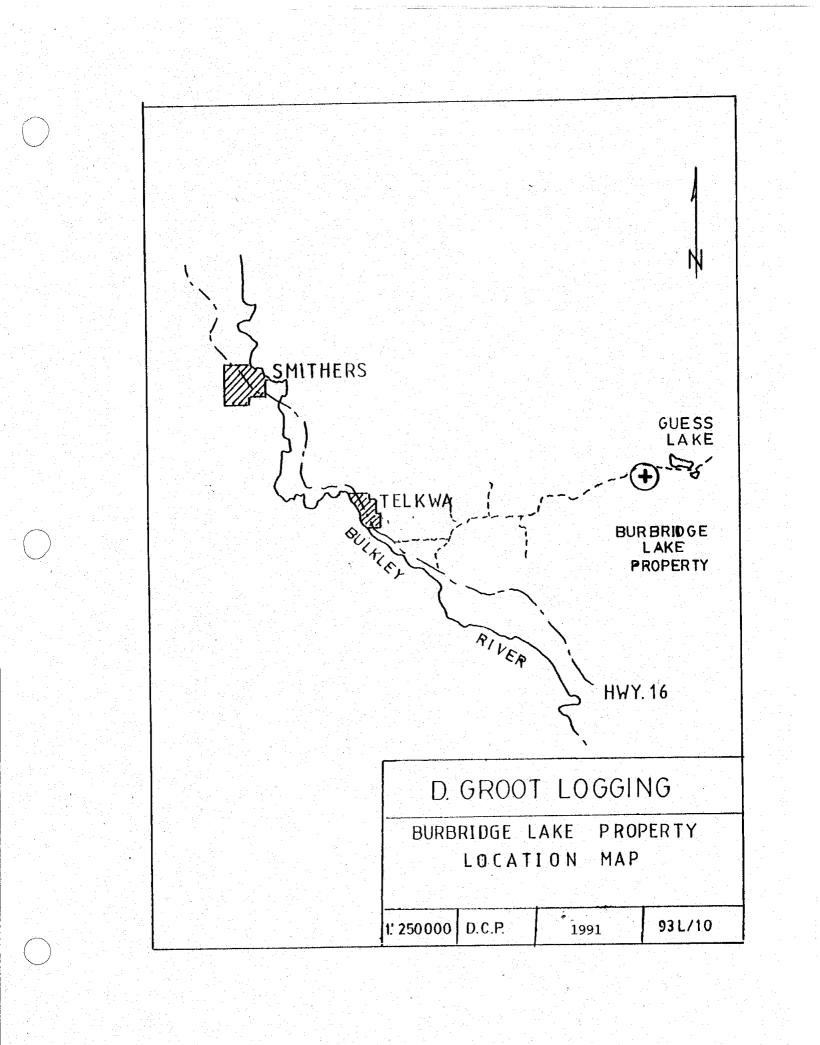
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| District Geol | ogist, Smithers | Off Co | nfidential: 92.09.19 |
| ASSESSMENT RE | PORT 21641 MINING DI | VISION: Omineca | |
| PROPERTY: LOCATION: | Burbridge Lake LAT 54 42 30 LONG UTM 09 6064443 644964 NTS 093L10E 093L10W | 126 45 00 | |
| CAMP: | 043 Babine Range | | |
| CLAIM(S): OPERATOR(S): AUTHOR(S): REPORT YEAR: COMMODITIES SEARCHED FOR: KEYWORDS: WORK | Plecash, D.C. 1991, 52 Pages | | reccia,Quartz stringers |
| DONE: Dri | lling AD 1045.2 m 8 hole(s);B Map(s) - 4; Scale(s) - 1:1 | | |
| REPORTS: | 05422,06386,09073,10182,21 | .446 | |

VFILE: 093L 223

Drilling Report on the

BURBRIDGE LAKE PROPERTY 93L/10 OMINECA M.D. D. GROOT LOGGING LTD. SMITHERS, B.C. D.C. PLECASH - GEOLOGIST - SEPT. 1991

> 932(0 54° 42' 30" 126° 45'



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| TABLE OF CONTENTS | | |
| | FILE NO: | Page |
| Summary | | maninal and a second |
| Location and Access | •••• | •• 3 |
| History | •••• | 3,4,5 |
| Regional Geological Setting | | |
| Property Geology | | |
| References | | and the second |
| 1991 Diamond Drill Program | | 8,9,10,11 |
| Conclusion | | |
| Qualification | | 13 |
| | | |
| Figures | dan sa sing sa Sa sing sa sing | |
| Location Map | | Front Page |
| Burbridge Lake and Environs Surface Plan | 1 | #1 Pocket |
| Burbridge Lake Diamond Drill Holes 91-4 | | |
| | | |
| Appendices | | |
| | | Cost Statement |
| Appendix B | | Claim List |
| 그 것 같은 것 같 | | After Cost Stateme |
| Smithers Truck Rental Invoice | | After Cost Stateme |
| | | |
| | | |
| | | |
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BRITISH COLUMBIA OMINECA M.D. – 93/L BURBRIDGE LAKE PROPERTY

SUMMARY:

Between May 1991 and June 1991, D. Groot Logging Ltd. of Smithers, B.C. did work on the Burbridge Lake Property. The roads on the property were upgraded and new roads were built to get access into the Diamond Drill sites. 4145M of old roads were upgraded and 4155M of new road access was constructed.

Eight Diamond Drill holes were drilled on the property. These eight Diamond Drill holes were drilled to check out the magnetometer anomolies that were discovered by Hudson's Bay Oil and Gas Company Limited in 1973. The ground magnetometer survey was conducted by utilizing a geometrics nuclear precession instrument model G-817. The drilling sites were located at the lower center part of the property to the higher southwest and southeast of the property. Diamond Drill hole 91-4 intersected zones of green and maroon andesites with most areas being brecciated from fine to large sizes of phenocrysts. Some native copper and bornite was visible in the core, especially the marcon Diamond Drill hole 91-5 intersected zones of dark to light green andesites. and maroon andesites, mostly brecciated but some sill like structures, little areas of visible native copper and bornite. Diamond Drill hole 91-6 was collared in a chloritic altered porphrytic andesite, then changed at 8.78M to a light to dark green banded andesites and mixed porphyritic andesite. Some native copper, bornite and chalcopyrite visible. There is an area of porphyry diorite with small amounts of iron pyrites throughout, this areas is between 105.25M to 129.85M. Then the Diamond Drill hole goes into the dark green chloritic altered andesite. Diamond Drill hole 91-7 started in a chloritic altered brecciated andesite with some amounts of iron pyrites throughout. Α little native copper and bornite visible. A massive white and yellowish green quartz appears between 86.20M to 116.74M. Then the green andesite are mixed with maroon andesites. Diamond Drill hole 91-8 was collared in a medium grey to black andesites to 34.99M. Some coal appearing at 8.53M to 10.97M. From 34.99M to end of Diamond Drill hole the area is a mixture of green to marcon andesites brecciated and bedded with quartz stringers and

blebs throughout. Some epidote showing up. Diamond Drill hole 91-9 was collared in a quartz diorite with bands of quartz and iron pyrites, this zone went to 36.30M then the Diamond Drill hole went into a banded and brecciated foliated argilliceous altered andesites of light to dark green and maroon in colour. Alot of diabase dyke appearing between 52.52M to 62.48M. Visible native copper and bornite. Diamond Drill hole 91-10 was collared in a mixture of marcon and green andesite breccia with fine specks of native copper and bornite. The breccia is from a fine to coarse size of phenocrysts. From 33.59M to the end of the Diamond Drill hole at 96.62M, the andesite is more of a tuff or sill like structure than that of a breccia. Most of the native copper and bornite seems to appear in the maroon coloured andesite. Diamond Drill hole 91-11 was collared in a fine to medium grained slightly chloritic altered diorite with small amounts of iron pyrites throughout. At 50.69M the andesite appears which is argillitic altered green and marcon and partly brecciated. Again small amounts of native copper appearing in the core and mostly in the maroon coloured andesites.

LOCATION AND ACCESS:

The Burbridge Lake Property is located in West Central, British Columbia at latitude 54° 43' North and longitude 125° 45' West. The main area of interest is located to the East and South of Burbridge Lake.

The property is accessible via Woodmere Road, which leaves Highway 16 approximately 1.6km South of the town of Telkwa, B.C. and then up Woodmere Road for 9.5km to the Deception Lake Forestry Access Road. Travel up to Deception Lake Forestry Access Road for 11.3km to Burbridge Lake.

HISTORY:

The Burbridge Lake Property was staked by Mel Chapman in 1969 after laying undeveloped for numerous years. In 1973 the property was optioned by Hudson's Bay Oil and Gas Company Limited, who conducted a program of geological mapping, a ground magnetometer survey, geological soil sampling and 366 meters of Diamond Drilling in three (3) holes. The option agreement was then terminated due to unfavourable results.

In 1974 Cities Service Minerals Corporation acquired a working option on the property and completed an induced polarization survey using a McPhar P660 frequency domain instrument. From results of this induced polarization survey and the previous magnetometer survey, the company opted to drill 485M of Diamond Drilling in two (2) holes. This worked failed to encounter any significant mineralization of any magnitude therefore the working option was terminated.

In 1976 Asarco Explorations Company of Canada Limited did a cusory examination of the structural and stratigraphic setting of the area of mineralization. In the reviewing of all available data, it was suggested that a dip to the southwest, with the host diorite intrusion occurring as a ill within the volcanic succession. With Hudson's Bay Oil and Gas Company Limited and Cities Service Minerals Corporation Drill program set up that all of the Diamond Drill holes were inclined between 45° and 50° to the south, the Diamond Drill holes were close to being parallel to, rather than crosscutting the zone of mineralization. On this basis, an option agreement was drawn up to do work on the Burbridge Lake property. In 1977 Asarco Explorations Company of Canada laid out a Diamond Drill program to drill six (6) holes. The results confirmed that the diorite is a sill like body dipping to the southwest. There was not enough commercial mineralization in the core to continue working on the property. Therefore the work option was terminated.

In 1980, D. Groot Logging Ltd of Smithers, British Columbia reviewed all of the pertinent data from previous work done on the Burbridge Lake property, and came to the conclusion that there could be a possibility of increased amounts of copper and molybdenum in the stockwork to the west of the Diamond Drill holes that Asarco Explorations Company of Canada had put in. A bargain was made to get control of the property from Mr. Mel Chapman of Smithers, B.C., and then work commenced. A detailed geochemical survey program was conducted over four (4) areas of the property. Four (4) Diamond Drill holes were drilled. The first three (3) to see if the diorite sill increased in mineralization the west and also a westerly extension of the sill. The results showed that the mineralization did not increase above the previous encountered amounts and also that the diorite sill is cut off to the west between Diamond Drill hole 80-2 and 80-3, by a fault. The fourth Diamond Drill hole was drilled on the eastern part of the property above Camp Lake. This drilling was done to try and encounter some small copper, silver veins that appeared on surface. This Diamond Drill hole did not pick up any vein extensions at depth. Some cat trenching and hand trenching was also done over a few areas of the property. Nothing of any significance appeared in any of the trenching.

In 1981 D. Groot Logging Ltd. decided to Diamond Drill in an area where the previous year geochemical program came up with some high anomolies in two different zones. Five (5) Diamond Drill holes with a total of 491.2 meters were drilled. The first three(3) Diamond Drill holes were put in on the southwest part of the property on the strength of the high soil sample readings that were obtained from the 1980 field work. No significant mineralization was encountered in any of these Diamond Drill holes. The two (2) other Diamond Drill holes were drilled in the central part of the property, southeast of These Diamond Drill holes were also drilled to check the area Burbridge Lake. of high anomolies of copper and molybdenum, that were obtained in the 1980 field work. No significant mineralization was encountered in either of these Diamond Drill holes. In 1991 D. Groot Logging Ltd. decided to Diamond Drill three (3) holes in the immediate area south of Asarco's Exploration Company Limited Diamond Drill hole 77-6 to explore the possibility of more mineralization occurring at depth, as the diorite sill dips into the gound to the south at a dip of 20° to 40°. Three (3) Diamond Drill holes were completed for a

total distance of 670.87M. The results of the three Diamond Drill holes showed that the diorite sill is still in place at depth and that as you go deeper, the rock formations are more defined at the upper and lower contacts. The appearance of iron pyrites seems to increase at depths but the copper and molybdenite lessens at depth. The results also shows that the diorite stock in an area of fracturing and veinling with clay-chlorite, quartzcalcite alteration now shows no visible amounts of copper and molybdenum to the naked eye as previous occurred in the other Diamond Drill holes that intersected the stock work at a higher elevation.

D. Groot Logging now decided to Diamond Drill in the areas of the high magnetometer readings that Hudson's Bay Oil and Gas Company Limited found in their 1973 geophysical survey. No other company attempted to drill these zones even though some coincide with the high geochemical anomolies found in the same areas.

REGIONAL GEOLOCICAL SETTING:

The Burbridge Lake property is situated along the western margin of the Babine Range, within a block of uplifted rhyolite to andesite volcanic rocks of the Jurassic Age. These rocks are part of the Telkwa formation of the Hazelton group and have been subjected to regional green schists metamorphism, overlain by well bedding marine sediments and red tuff, breccias, epiclastics, and andesitic flows. With the predominant north east and north by northwest trending linears intersecting in the vicinity of the Burbridge Lake property. This usually represents high angle faults.

PROPERTY GEOLOGY:

The Burbridge Lake property is underlain by rhyolitic dacite and andesite tuffs and flows off the Telkwa formation. Their rocks have been regionally metamorphosed to the green schist facies and are strongly foliated in places, with foliation occurring along bedding planes. The general trend of the foliation is to the northwest with variable dips to the southwest. Eutaxitic textures are common in the more siliceous crystal and lapilli-tuff units. (By D.G. MacIntyre)

In the vicinity of Burbridge Lake, the Telkwa formation is intruded by a sill like complex which is between 150M and 200M thick and at least 1500M in length. The upper part is porphyritic and approaches a granodiorite in composition. Towards the bottom of the contacts, the sill becomes more mafic-rich with a well developed diorite texture. The sill appears to be foliated and metamorphosed to the same intensity as the volcanic country rock, which suggests that all of the rocks in the immediate area are of the same age. e.g. Jurassic.

REFERENCES:

| A.D. | Schmidt, P. Eng. Hudson's Bay Oil and Gas Company Limited | 1973 |
|------|---|------|
| D.A. | Silversides, Geologist, Cities Service Minerals Corporation | 1974 |
| D.G. | MacIntyre, Geologist, Asarco Explorations Co. of Canada | 1977 |
| D.C. | Plecash, Geologist, D. Groot Logging Ltd. | 1980 |
| D.C. | Plecash, Geologist, D. Groot Logging Ltd. | 1981 |
| D.C. | Plecash, Geologist, D. Groot Logging Ltd. | 1991 |

1991 DIAMOND DRILL PROGRAM:

Between May 1991 and June 1991 a Diamond Drill program was laid out and drilled with a total distance of 1045.17M of B.Q. wireline on the Burbridge Lake property.

Diamond Drill hole 91-4 was drilled in the lower elevation of the property at 1157M in elevation and approximately 590M in a N72^OE direction from the most easternly edge or Burbridge Lake. The hole was collared in a green and maroon brecciated andesites, limy in texture and small visible amounts of native copper and bornite up to 17.98M. Next from 17.98M to 23.74M was a green and maroon andesite tuffs. The hole then entered another zone of brecciated green and maroon andesites from 23.74M to 69.34M with quartz calcite and epidote increasing as the hole gets deeper. From 69.34M the Diamond Drill hole is in a medium colour texture of maroon and green fine grained brecciated andesite mixed with a maroon and green andesite tuff. Still more quartz blebs and stringers with larger amounts of epidotes. Small amounts of visible native copper and bornite in most of the maroon coloured andesites. The hole was stopped at 102.72M.

Diamond Drill hole 91-5 was drilled up in the southwest area of the property at an elevation of 1292.0M. This hole was collared in a dark green andesite with numerous quartz stringers and epidote up to 15% in volume. Some small areas of brecciation and also some iron pyrites in small amounts throughout the core, then from 51.09M to 74.77M the hole was in a medium to light grey brecciated andesite with large amounts of quartz, between 61.81M to 72.24M there is a zone of light greyish green quartz interbedded with veinlets of clear quartz From 74.77M to 133.20M the hole is in a black slate mixed with bands of dark grey fine brecciated andesites. The dark andesite is very limy. Some visible FeS; CuFe; and native copper in the core, beds at 40° to core axis. At 133.20M to 137.62M the core is medium to light greyish brown brecciated andesite with oxide staining, highly altered. From 137.62M to 172.82M the core is a medium grey to greyish green andesite mixed with a greyish green brecciated andesite all argillic altered. Some small amounts of visible molybdenum and native copper. The hole was stopped at 172.82M.

Diamond Drill hole 91-6 was drilled in the southeast part of the property above or southeast of the creek, at an elevation of 1264.9M. The drill hole started in a chloritic altered porphyritic andesite with a little iron pyrite, copper pyrite and native copper appearing. The hole at 8.78M to 40.23M then went into a medium to light green andesite banded with quartz stringers, epidote and iron pyrites with core to beds at 20° to 25°. Some jasper appearing at 30.0M and bands of maroon andesite starting to appear around 31.27M. Oxide staining and a crushed zone at 37.64M. At 40.23M to 105.25M there is medium to light green andesite with splotches of epidote. Fault at 48.92M then highly altered to 53.24M. At 61.48M to 70.17M core is finely brecciated. From 86.72M to 90.89M there is a medium green andesite breccia mixed with a porphyry diorite. From 90.89M to 93.18M and 100.19M to 100.37M are bands of porphyritic diorite. At 105.25M to 129.85M the core is a porphyry diorite with bands of iron pyrite up to 1.2CM wide. From 129.85M to 142.34M the hole is in a dark green chloritic altered andesite mixed with a porphyry diorite that has bands of quartz and iron pyrite. The Diamond Drill hole was stopped at 142.34M.

Diamond Drill hole 91-7 was collared approximately 472.4M in a S71^OE direction from Diamond Drill hole 91-6 at an elevation of 1307.6M. The Diamond Drill hole was collared in a chloritic altered brecciated andesite with numerous veinlets of quartz and some small veins of iron pyrites. This is mixed with a chloritic altered light to dark andesite tuffs. This zone goes to 33.74M to 66.23M the core is a mixture of light to dark grey andesite with dark green andesites. Alot of quartz bands up to 60CM thick. Some iron pyrites in the core. From 66.23M to 86.20M the core is a medium grey green to dark green andesite breccia with a banded grey green to black andesite that has some areas of quartz up to 25%. The core to beds in the area is at 30° . At 86.20M to 116.74M the core is a massive white and light yellowish green quartz with a few bands of argilliceous altered andesite with secondary bands of guartz. From 116.74M to 153.93M the core is a mixture of marcon, green and black bands of andesite tuffs with marcon and green andesite breccia and quartz bands with epidote showing. Some of the andesite bands are argillitic altered. Small amounts of native copper visible with beds of andesite at 25° to 30° to core axis. The Diamond Drill hole was stopped at 153.93M.

Diamond Drill hole 91-8 was collared approximately 274.3M in a S67^OE direction at 1295.4M elevation. The Diamond Drill hole started in a mixed medium grey to black andesites with black slate with note graphite and little coal from 8.53M to 10.97M, and quartz stringers in minor amounts to 17.74M. From 17.74M to 57.61M the core is light to dark green andesite breccia with the phenocrysts being from a fine grained texture up to 5CM in size. At 57.61M to 68.82M the core is a light green quartz interbedded with calcite stringers. From 68.82M to 78.09M the core is a light green sandy andesite mixed with maroon and dark green andesite tuffs. Noted fault zone with recemented quartz calcite at 73.27M to 73.52M. Some quartz calcite stringers up to 8CM thick at 74.37M, 74.68M and 75.32M. From 78.09M to 104.94M the core is from light to medium and dark bands of argilliceous altered andesite with numerous bands of quartz up to 23CM wide. Slight amounts of brecciated andesites after 84.64M. The core band to core axis is from 30° to 35° at 78M to 79M and flattens out to 15° at 89M. From 104.94M to 163.68M the core is a mixture of maroon to light and dark green argilliceous altered andesite tuffs with epidote starting to appear with maroon and medium green brecciated andesite. At 158.19M to 158.65M there is a zone of crushed and leached quartz calcite fault. The Diamond Drill hole was stopped at 163.68M.

Diamond Drill hole 91-9 was collared approximately 139.6M at a $557^{\circ}E$ direction from Diamond Drill hole 91-4 and at an elevation of 1172.6M. This Diamond Drill hole started in a medium to coarse grained diorite slightly chloritic altered with small veinlets of quartz, andesite and iron pyrite to a distance of 36.30M. From 36.30M to 46.15M the core is a foliated argilliceous limy altered andesite with bands of quartz calcite and the foliation being at 30° to core axis. From 46.15M to 78.43M the core is a maroon and green brecciated andesite with some visible native copper and bornite. From 52.52M to 62.48M there is an abundant amount of diabase dyke. The first epidote appearing at 71.63M. At 78.43M to 86.99M the core is a mixed zone of green andesite with quartz stringers and epidote. From 86.99M to 92.05M is a green brecciated andesite with bands of andesite tuffs shot through with quartz calcite stringers and epidote. Little native copper appearing in the core. The Diamond Drill hole was stopped at 92.05M.

Diamond Drill hole 91-10 was collared approximately 77.4M in a N69^QW direction from Diamond Drill hole 91-4. The hole started in a maroon and green mixed andesite breccia with quartz calcite stringers up to 3CM in width. Small amounts of native copper and bornite visible. First epidote appearing at 5.49M. This zone went to 33.59M. From 33.59M to 96.62M the core is a mixed green and maroon andesite tuffs with some green and maroon andesite breccia. Numerous quartz and quartz calcite stringers and larger amounts of epidote from 56.0M to 78.88M. Noted small amounts of native copper with little amounts

of bornite. The Diamond Drill hole was stopped at 96.62M.

Diamond Drill hole 91-11 was collared approximately 231.0M at a $S56^{\circ}E$ direction from Diamond Drill hole 91-4. The hole started at elevation 1170.1M. The beginning of the Diamond Drill hole was in a fine to medium grained diorite that is slightly chloritic altered, and has a few stringers of quartz calcite and iron pyrites. This zone went to 46.27M then from 46.27M to 50.69M the core is a mixture of diorite and light green andesite with calcite throughout. From 50.69M to 60.69M the core is a mixture of argilliceous altered andesite with diorite that is almost 80% calcite, limey and some iron pyrites in it. From 60.69M to 121.01M the core is a mixture of green and maroon andesite tuffs foliated at 20° with maroon and green brecciated andesites. Large amounts of quartz calcite in the core and there is an area between 79.07M to 91.75M with abundant amount of diabase dyke. The Epidote first starts to appear at 99.37M. Some specks of native copper and bornite in the core. The Diamond Drill hole was stopped at 121.01M.

The Diamond Drill core is stored at Northwest Panelboard, Railway Ave., Smithers, B.C.

Page ... 11

CONCLUSION:

The eight (8) Diamond Drill holes that were completed in June 1991 on the Burbridge Lake Property that were drilled, to test the magnetic anomolies that were discovered by Hudson's Bay Oil and Gas Co. Ltd. work in 1973, did not come up with any amount of copper, molybdenum, zinc or gold, of any significance. In the lower portion of the property where Diamond Drill holes 91-4, 91-9, 91-10 and 91-11 were drilled on high magnetic readings the zones were of the marine sedimentary beds of the maroon feldspathic tuffs, breccias, epicalstics and andesitic flows. With the amount of visible native copper and bornite in the core, especially the maroon andesites, the assay results were disappointing. The Diamond Drill holes 91-5, 91-5, 91-7 and 91-8 were collared in sediments with some pyrites but no significant mineralization were found in these holes as the same as the first four(4) Diamond Drill holes. Future work on the property would be to go to the area of Diamond Drill hole 73-2 that was drilled by Hudson's Bay Oil and Gas Co. Ltd. in 1973 and start following the mineralized zone from there.

leeve

D.C. Plecash Geologist

STATEMENT OF QUALIFICATIONS:

9)

I, Donald C. Plecash of 3869, 12th Avenue, Box 2694, Smithers, B.C. certify that:

- 1) I attended Queens University, Kingston, Ontario from September 1947 to May 1950.
- 2) I was employed by Yale Lead and Zinc Mines of Ainsworth, B.C. as a Mine Surveyor, Junior Engineer, Junior Geologist from 1950 to 1956.
- 3) I was employed by Canam Copper Mines of Hope, B.C. as a Mine Engineer and Mine Geologist from 1956 to 1957.
- 4) I was employed by Reeves MacDonald Mines Ltd. of Remac, B.C. as a Mine Engineer, Mine and Exploration Geologist from 1957 to 1969.
- 5) I was employed by Norex Uranium of 605-535, Thurlow St., Vancouver B.C. as Exploration Geologist and Manager from June 1969 to October 1969.
- 6) I was employed by Nadina Explorations Ltd. of 1005-789, West Pender St., Vancouver, B.C. as Mine Engineer and Mine Geologist then Mine Manager from October 1969 to September 1973.
- 7) I was employed in the Sales Industry from September 1973 to April 1980.
- 8) I was employed by D. Groot Logging Ltd. of Box 520, Smithers, B.C., as an Exploration Geologist from May 1980 to June 1984.
 - I have been self employed in the Mining Industry as Engineering and Geology services where I have worked from Exploration to Mine Product to the present time.

PLECAS

BURBRIDGE LAKE

1991

COST STATEMENT

BIRTTON BROS. DIAMOND DRILLING LTD. DIAMOND DRILLING 1045.2M ROAD UPGRADING 4145M ROAD CONSTRUCTION 4155M

\$ 76,560.96

SMITHERS TRUCK RENTALS LTD.

1,430.25

1,845.50

B. GROOT - CORE SPLITTER, ETC. 163 HRS @ \$11.322/HR

D. C. PLECASH - GEOLOGIST, ETC. 4.5 MONTHS @ \$6225/MONTH

28,012.50

\$107,849.21

 \sim

D.C. PLECASH GEOLOGIST

Appendix A

CLAIM LIST:

NAME RECORD NO. 59464 Summit #1 Summit #2 59465 112279 Summit #3 112280 Summit #4 112283 Summit #7 Summit #8 112284 126754 H.B. #4 H.B. #6 126756 126287 H.B. #21 126288 H.B. #22 H.B. #23 126289 126290 H.B. #1 FRA H.B. #2 FRA 126291 126292 H.B. #3 FRA H.B. #4 FRA 126293 2792 MAY (9 Units) JUNE #1 (12 Units) 2833 JUNE #2 (20 Units) 2834 2835 JUNE #3 (20 Units)

MAY 16, 1980 JUNE 23, 1980 JUNE 23, 1980 JUNE 23, 1980

DATE RECORDED

Appendix B

| Latitud | e Elevation 1157.0M Bearing | D | epth | 102.7M | Start | ed_Ju | ne 17, | ¹⁹⁹¹ c | omplet | ed | ne 18, |
|---------------|--|---------------|--------|-------------|--------------------------|-------|--------|-------------------|-----------|---------|----------|
| Departu | re Section Dip90 ⁰ | D | rilled | By Br Dr | <u>itton B</u> illing | ros. | Logged | By | D.C. | PLECASI | <u>-</u> |
| Depth Feet | Formation | Sample No. | From | To | Width | | | Assav | <u>'S</u> | Ţ | |
| 0 | OVERBURDEN | | | | | | | | | | |
| 4.57M | BRECCIATED GREEN AND MAROON ANDESITES WITH | | | | | | | | | | |
| 8.47M | NUMEROUS QUARTZ CALCITE STRINGERS AND BLEBS UP TO | | | | | | | | | | |
| | 7CM IN SIZE. CORE TO BEDS AT 20 ⁰ . CORE IS MODERATE- | | | | | | | | | | |
| | LY LIMY. SOME VISIBLE NATIVE COPPER AND BORNITE. | | | | | | | | | | |
| | CHLORITIC ALTERED | | | | | | | | | | |
| 8.47M | DARK MAROON AND GREEN ANDESITE BRECCIA | | | | | | | | | | |
| 17.98M | WITH A FEW STRINGERS OF QUARTZ CALCITE. CORE STARTS | | | | | | | | | | |
| | WITH A MORE DENSE AND SMALLER PHENO CRYSTS OF | | | | | | | | | | |
| | BRECCIA TO A LARGER SIZE BRECCIA. CORE IS LIMEY AND | | | | | | | | | | - |
| | HAS SOME VISIBLE NATIVE COPPER WITH SOME BORNITE | | | | | | | | | | |
| 17.98M | MIXED GREEN AND MAROON ANDESITE, BRECCIATED | | | | | | | | | | |
| 23.74M | LIMEY, WITH LITTLE VISIBLE NATIVE COPPER. | | | | | | | | | | |
| | 17.98M to 19.05M CHLORITIC ALIERED WITH QUARTZ | | | : | | | | | | | • |
| | STRINGERS AND BLEBS. SMALL FLECKS OF NATIVE COPPER | | | | | | | | | | |
| | AND IRON PYRITES. 19.93 to 23.74M CORE IS A DARKER | | | | | | | | | | |

| Latitude | Elevation_1157.0M Bearing | D | epth_ | 102.7M | Start | ed JU | NE 17, | 1991 0 | omplet | ed JU | <u>NE 18,19</u> |
|---------------|---|---------------|-------|--------|-------|-------|--------|--------|--------|-------|-----------------|
| | reSectionDip90 ⁰ | | | By BRI | | | | | | | |
| Depth Feet | Formation | Sample No. | From | То | Width | | 1 | Assav | s | | |
| | MAROON WITH FINER BRECCIA LITTLE NATIVE COPPER AND | | | | | | | | | | |
| | IRON PYRITES, LIMEY. | | | | | | | | | | |
| 23.74M | MIXED SECTIONS OF GREEN AND MAROON | | | | | | | | | | |
| 40.36M | BRECCIATED ANDESITE. SLIGHTLY LIMEY, LITTLE | | | | | | | | | | |
| | NATIVE COPPER. | | | | | | - | | | | |
| | 23.74M TO 25.21M LIGHT GREEN ANDESITE SILL, QUARTZ | | | | | | | | | | |
| | CALCITE AT EACH END OF CORE | | | | | | | | | | |
| | FAULT ZONE 25MM AT 25.51M | | | | | | | | | | |
| | 27.74M TO 28.04M LIGHTER MAROON ANDESITE | | | | | | | | | | |
| | 28.04M TO 31.09M DENSER AND DARKER MAROON ANDESITE | | | | | | | | | | |
| | 33.25M TO 35.02M GREEN FOLIATED ANDESITE TO A | | | | | | | | | | |
| | BRECCIATED ANDESITE, QUARTZ CALCITE AT EACH END OF | | | | | | | | | | |
| | ZONE. | | | | | | | | | | |
| | 35.02 TO 40.36M THE BRECCIATED PHENOCRYSTS ARE ALOT | | | | | | | | | | |
| | LARGER IN SIZE THAN PREVIOUS CORE BUT FEWER PIECES | | | | | | | | | | |
| | OF PHENOCRYSTS. ALMOST SILL LIKE. | | | | | | | | | | |

1997 1997 - 1997

| ROPER | ryBURBRIDGE LAKE | | | | HOLE | NO | 91-4 | 1 | | | |
|-----------------|---|---------------|--------|-------|-------|--------|-------|--------|---------|--------|-------|
| atitud | Elevation 1157.0M Bearing | Di | epth_1 | 02.7M | Start | ed JUN | E 17, | 1991 (| Complet | ed_JUN | Æ 18, |
| | reSectionDip90 ⁰ | | • | By_BR | | | | | | | |
| Depth Feet | Formation | Sample No. | From | To | Width | | | Assav | rs | | 1 |
| | MAROON BRECCIATED ANDESITE LIMEY. PHENOCRYSTS | | | | | | | | | | |
| 69.34M | UP TO 20MM IN SIZE. SOME QUARTZ CALCITE STRINGERS | | | | | | | | | | |
| | 40.39M TO 41.76M HAS A 0.61M CORE LOSS. GYPSUM | | | | | | | | | | |
| | SHOWING UP ON FRACTURES. | | | | | | | | | | |
| | SMALL FLECKS OF NATIVE COPPER IN CORE WITH A LITTLE | | | | | | | | | | |
| | BORNITE. | | | | | | | | | | |
| | 40.39M TO 43.34M BROKEN CORE | | | | | | | | | | |
| | 45.72M TO 69.19M CORE HAS AN INCREASE OF QUARTZ | | | | | | | | | | |
| | CALCITE VEINLETS RUNNING FROM PARALLEL TO RIGHT | | | | | | | | | | |
| | ANGLES TO CORE | | | | | | | | | | |
| | 47.24M TO 47.55M CORE HAS A SLIGHT LEACHED OUT | | | | | | | | | | |
| | APPEARANCE. | | | | | | | | | | |
| | 47.55M TO 49.84M CORE HAS A FINER GRAINED TEXTURE. | | | | | | | | | | |
| | 50.90M - 10MM FAULT ZONE | | | | | | | | | | |
| | 52.43M TO 53.95M CHALCOCITE STAINING | | | | | | | | | | |
| | 53.49M - 5CM OXIDIZED CORE | | | | | | - | | | | |

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| Latitude | Elevation 1157.0M Bearing | D | epth_1 | 02.7M | Start | ed JU | NE 17, | 1991 | Comple | ted <u>JU</u> | JE 18 |
|---------------|--|---------------|--------|-------|---------|-------|--------|-------|-----------|---------------|--|
| Departur | e Section Dip -90° | D | rilled | By BR | ITTON B | ROS. | Logge | d By_ | D.C. | PLECASH | I |
| Depth Feet | Pormation | Sample No. | From | То | Width | | | Assa | VS | | |
| | 53.95M TO 56.39M EPIDOTE APPEARING IN CORE FROM | | | | | | | | | | n an an an an An an |
| | MINOR AMOUNTS TO 50% OF CORE. | | | | | | | | | | |
| | 59.74M to 69.34M FINER GRAINED MARCON BRECCIATED | | | | | | | | | | |
| | ANDESITE. | | | | | | | | | | |
| | 61.42M TO 62.00M EPIDOTIZED SILL LIKE MARCON AND | | | | | | | | | | |
| | GREEN ANDESITE. | | | | | | | | | | |
| | 60.87M TO 61.05M LIGHT BANDED QUARTZ CALCITE MIXED | | | | | | | | | | |
| | WITH MARCON ANDESITE | | | | | | | | | | $\frac{\partial u}{\partial t} = \int_{-\infty}^{\infty} dt dt$ |
| 69.34M | MEDIUM TEXTURED MARCON AND GREEN ANDESITE | | | | | | | | | | |
| 102.72M | WITH FINE GRAINED BRECCIA. | | | | | | | | | | |
| | 69.34M TO 90.98M MEDIUM TO DARK GREEN FINELY | | | | | | | | | | |
| | BRECCIATED ANDESITE. | | | | | | | | | | |
| | 71.93M TO 73.15M UP TO 75% QUARTZ CALCITE IN CORE | | | | | | | | | | |
| | 75.99M TO 81.53M EPIDOTE APPEARING IN CORE UP TO | | | | | | | | | | |
| | 80% IN PLACES | | | | | | | | | | |
| | 90.98M TO 102.72M LIGHT GREEN TO SOME MARCON | | | | | | | | | 1 | |

| | Elevation 1157.0M Bearing | | | | | | | | | | |
|---------------|---|---------------|------|----|---------|--|--------|-------|--------|--------|--|
| Departur | eSectionDip90 ⁰ | | | DR | TION BE | ROS. | Logged | i By | D.C. P | LECASH | |
| Depth Feet | Formation | Sample No. | From | То | -Width | | | Assav | 3 | | |
| | MIXED ANDESTIC TUFF WITH ANDESITIC BRECCIA SHOT | | | | | | | | | | |
| | THROUGH WITH ABUNDANT QUARTZ CALCITE VEINS AND | | | | | | | | | | |
| | BLEBS. | | | | | | | | | | |
| | | | | | | | | | | | |
| | END OF HOLE AT 102.72M | | | | | | | | | | |
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| Latitude | Elevation 1292.0M Bearing | D | epth_1 | /5.8/M | Start | ed_UI | E 18,. | TAAT C | omplet | ed JUNE | . 20, |
|---------------|--|---------------|--------|--------|---------|---|--------|--------|--------|---------|-------|
| Departur | Elevation 1292.0M Bearing | D | rilled | By BR | ITION B | ROS. | Logged | i By | D.C. | PLECAS | 3H |
| Depth Feet | Formation | Sample No. | From | То | Width | | | Assav | 3 | 1 | T |
| 0- | OVERBURDEN | | | | | | | | | | |
| 3.28M | DARK GREEN ANDESITE WITH QUARTZ STRINGERS | | | | | | | | | | |
| 51.09M | 15% EPIDOTE CHALCOPYRITE AND NATIVE COPPER VISIBLE | | | | | | | | | | |
| | CHLORITIC ALTERED | | | | | | | | | | |
| | 3.28M TO 10.21M CORE HAS A MARCON HUE | | | | | | | | | | |
| | 8.69M SOME EPIDOTE STARTING TO APPEAR | | | | | | | | | | |
| | 11.13M TO 13.72M SERIES OF QUARTZ BANDS UP TO | | | | | | | | | | |
| | 5CM WIDE. | | | | | | | | | | 1 |
| | 14.97M TO 23.99M COARSELY BRECCIATE WITH ALOT OF | | | | | | | | | | |
| | EPIDOTE | | | | | | | | | | |
| | 23.99M TO 26.58M FINER GRAINED GREY BRECCIATED | | | | | | | | | | |
| | ANDESITE | | | | | in a suite Status de la suite Status de la suite de | | | | | |
| | 26.58M TO 29.57M THE ROCK IS REMOBILIZED WITH | | | | | | | | | | |
| | CHARDS UP TO 25CM IN SIZE. SOME QUARTZ BANDING, | | | | | | | | | | |
| | FE S VEINLETS AND BLEBS. | | | | | | | | | | |
| | 29.57M TO 33.65M MEDIUM DARK TO DARK GREEN ANDESITES | | | | | | | | | | |

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|-------------|--------------|-----------|-------------|------------------|-------|----------|------------|-------------|-------------------------|---------|-------------|
| , PROPERTY_ | BURBRIDGE LA | KE | | | | | HOLE NO. | • | | | |
| Latitude | | Elevation | 1292.0M | Bearing | Depth | 175.87M | Started_ | JUNE 18/199 | ¹ Completed_ | JUNE 20 | 0/1991 |
| | | | | -90 ⁰ | | A D- BRI | ITTON BROS | Logged By | D.C. PLECA | ASH | |
| Departure | | Section | | Dip90 | UT111 | | LLING | - rogged by | | | |

| Depth Feet | Formation | Sample No. | From | То | Width | 1 | Assav | 3 | |
|---------------|--|---------------|------|----|-------|-------|-------|---|----|
| | 33.65M TO 35.60M MEDIUM GREY ANDESITE SILL WITH | | | | | | | | |
| | QUARTZ STRINGERS. | | | | | | | | |
| | 35.60M TO 41.88M LIGHT TO MEDIUM GREYISH GREEN | | | | | | | | |
| | ANDESITE WITH LARGE QUARTZ STRINGERS UP TO 25CM IN | | | | | | | | |
| | SIZE. | | | | | | | | |
| | 41.88M TO 51.09M DARKER GREEN ANDESITE WITH QUARTZ | | | | | | | | |
| | STRINGERS AND A LITTLE EPIDOTE | | | | | | | | |
| | 49.99M TO 50.14M MIXED ANDESITE AND QUARTZ | | | | | | | | |
| 51.09M | MEDIUM TO LIGHT GREY BRECCIATED ANDESITE | | | | | | | | |
| 74.77M | WITH MASSIVE QUARTZ IN THE MIDDLE OF THE ZONE | | | | | | | | |
| | 51.09M TO 56.08M COARSE DARK GREEN ANDESITE BRECCIA | | | | | | | | |
| | 56.08M TO 61.81M FINER GRAINED GREY ANDESITE BRECCIA | | | | | | | | |
| | 61.81M TO 72.24M MASSIVE LIGHT GREYISH GREEN QUARTZ | | | | | | | | |
| | WITH VEINLETS OF CLEARER QUARTZ TO .64 CM | | | | | | | | |
| | 72.24M TO 74.77M LIGHTER GREYISH GREEN FINER GRAINED | | | | | | | | ш. |
| 1.1.1 | ANDESITE BRECCIA. | | | | | | | | |

| ROPERT | Y BURBRIGE LAKE | | | | HOLE | NO. | 91-5 | <u>.</u> | | | |
|---------------|--|---------------|--------|---------|----------|-------|--------|----------|-----------|--------|-------|
| atitude | Elevation 1292.0M Bearing | Di | epth_1 | .75.87M | 1_Start | ed_JL | NE 18, | 1991 (| Complet | ed JUN | E 20, |
| Departure | section Dip -90° | D | rilled | By BF | RITTON B | ROS. | Logged | i By_j |).C. PI | ECASH | |
| Depth Feet | Formation | Sample No. | From | To | -Width | | 1 | Assay | <u>'3</u> | | |
| 74.77M | BLACK SLATE WITH BANDS OF DARK FINE BRECCIATED | | | | | | | | | | |
| 133.20M | ANDESITE UP TO 5 CM THICK AND QUARTZ STRINGERS UP TO | | | | | | | | | | |
| | 1.3CM THICK. THE DARK ANDESITE IS VERY LIMEY, | | | | | | | | | | |
| | NOTED FE S. CU FE AND NATIVE COPPER IN THE CORE. | | | | | | | | | | |
| | CONTACT AT 40° TO CORE AXIS 81.63M TO 84.28M | | 11 - A | | | | | | | | |
| | MEDIUM GREY ANDESITE | | | | | | | | | | |
| | 93.12M TO 98.45M MEDIUM GREY ANDESITE WITH SOME | | | | | | | | | | |
| | QUARTZ STRINGERS UP TO 10 CM WIDE. | | | | | | | | | | |
| | 98.45M TO 133.20M MIXED MEDIUM GREY AND BLACK | | | | | | | | | | |
| | ANDESITE WITH BANDS OF QUARTZ | | | | | | | | | | |
| | CORE TO BEDS AT 30° | | | | | | | | | | |
| 133.2011 | MEDIUM TO LIGHT GREYISH BROWN BRECCIATED | | | | | | | | | | |
| 137.6211 | ANDESITE -OXIDE STAINING - HIGH ALTERATION. | | | | | | | | | | |
| 137.621 | MEDIUM GREY ANDESITE, SLIGHTLY ARGILLACEOUS | | | | | | | | | | |
| 140.4211 | ALTERED | | | | | | | | | | |
| 140.421 | QUARTZ CALCITE MIXED WITH AN | | | | | | | | | | |

| Denartur | Elevation 1292.0M Bearing eSectionDip | D | rilled | i By BRI | TION BE | os. | Logge | i By | D.C. | PLECA | \SH |
|---------------|---|---------------|--------|----------|---------|-----|-------|-------|------|-------|-----|
| | | | | DR | LLING | | | | | | |
| Depth Feet | Formation | Sample No. | From | To | Width | | 1 | Assav | 3 | | Ţ |
| 144.93M | ARGILLACEOUS ANDESITE | | | | | | | | | | |
| 144.93M | MIXED GREYISH GREEN AND BLACK ARGILLACEOUS ANDESITE | | | | | | | | | | |
| 172.82M | SOME MOLYBDENUM AND NATIVE COPPER | | | | | | | | | | |
| | 160.66M TO 161.85M LIGHT GREENISH GREY ARGILLACEOUS | | | | | | | | | | |
| | ALTERED BRECCIATED ANDESITE. | | | | | | | | | | • |
| | 163.07M TO 163.47M 2-12CM BANDS OF QUARTZ | | | | | | | | | | |
| | 168.25M TO 168.71M QUARTZ BAND | | | | | | | | | | |
| | 168.71M TO 170.54M QUARTZ BANDS UP TO 5CM WIDE | | | | | | | | | | |
| | 170.54 TO 172.82M MEDIUM GREENISH GREY ANDESITE | | | | | | | | | | |
| | | | | | | | | | | | |
| | END OF HOLE AT 172.82M | | | | | | | | | | |
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| Latitude | Elevation 1264.9M Bearing | D | epth | 142.34M | Star | ed_UU | NE 20, | C | omplet | ed | |
|---------------|---|---------------|--------|---------|---------|-------|--------|-------|--------|---------|---|
| Departur | Elevation 1264.9M Bearing e Section Dip | D | rilled | By BR | ITTON B | ROS. | Logged | i By | D.C. 1 | PLECASI | H |
| Depth Feet | Formation | Sample No. | From | То | Width | | 1 | Assav | 3 | | |
| 0 - 3.78M | OVERBURDEN | | | | | | | | | | |
| 3.78M | CHLORITIC ALTERED PORPHRYTIC ANDESITE | | | | | | | | | | |
| 8.78M | WITH IRON PYRITES, COPPER PYRITES AND NATIVE COPPER | | | | | | | | | | |
| 8.78M | MEDIUM TO LIGHT GREEN ANDESITE BANDED | | | | | | | | | | |
| 14.26M | WITH QUARTZ STRINGERS, EPIDOTE AND IRON PYRITE | | | | | | | | | | |
| | STRINGERS UP TO 1.20CM THICK. CORE TO BEDS AT | | | | | | | | | | |
| | 9.14M IS 20 ⁰ | | | | | | | | | | |
| 14.26M | MIXED LIGHT GREEN ANDESITE BANDED WITH | | | | | | | | | | |
| 40.23M | QUARTZ STRINGERS AND EPIDOTE | | | | | | | | | | |
| | 17.89M TO 19.08M CHLORITIC ALTERED PORPHYRITIC | | | 1 | | | | | | | |
| | ANDESITE WITH STRINGERS AND BLEBS OF QUARTZ UP | | | | | | | | | | |
| | TO 2.5CM THICK. | | | | | | | | | | |
| | 19.08M TO 26.09M LIGHT GREEN PORPHYRITIC ANPHANTIC | | | | | | | | | | |
| | ANDESITE WITH A 8CM BAND OF QUARTZ AT 23.65M | | | | | | | | | | |
| | 26.09M TO 31.24M LIGHT GREEN ANDESITE WITH SOME | | | | | | | | | | |
| | EPIDOTE AND AN ANPHANITIC FLOW APPEARING OF | | | | | | | 12 | | | |

| atitude Departur | Elevation 1264.9M Bearing Section Dip -90 ⁰ | Depth 142.34A Started USAE 20,1331 Completed 00. Drilled By BRITTON BROS. Logged By D.C. PLECAS DRILLING | | | | | | | | | | |
|---------------------|---|--|------|----|--------|----------|--|-------|----|--|-------|--|
| Depth Feet | Formation | Sample No. | From | To | -Width | <u> </u> | | Assav | .a | | T | |
| | GREENISH SAND TO MAROON COLOUR | | | | | | | | | | | |
| | 29.54M TO 30.05M 2.5CM BAND QUARTZ RUNNING ALONG | | | | | | | | | | | |
| | CORE | | | | | | | | | | | |
| | 29.99M TO 30.21M LITTLE JASPER APPEARING IN CORE | | | | | | | | | | | |
| | WITH QUARTZ | | | | | | | | | | | |
| | 31.27M TO 31.43M MARCON ANDESITE WITH QUARTZ AND | | | | | | | | | | | |
| | A LITTLE NATIVE COPPER | | | | | | | | | | | |
| | 31.43M TO 40.23M MIXED ANPHANITIC ANDESITE AND | | | | | | | | | | | |
| | QUARTZ BANDED WITH QUARTZ, EPIDOTE AND A CREAM | | | | | | | | | | | |
| | COLOURED ANDESITE, CORE VERY BROKEN SOME OXIDE | | | | | | | | | | | |
| | STAINING. SMALL CRUSHED ZONE AT 37.64M | | | | | | | | | | | |
| 40.23M | MEDIUM TO LIGHT GREEN ANDESITE WITH | | | | | | | | | | | |
| 05.25M | SPLOTCHES OF EPIDOTE. | | | | | | | | | | | |
| | 15.24 CM QUARTZ CALCITE AT 43.43M | | | | | | | | | | | |
| | 49.99M TO 50.90M SOMEWHAT DARKER GREEN ANDESITE | | | | | | | | | | | |
| | SMALL FAULT ZONE AT 48.92M. ZONE HIGHLY | | | | | | | | | | | |

| latitud | eElevation_1264.9M_Bearing | D | epth 1 | 42.34M | Start | ed_J | JNE 20 | <u>, 199</u> 1 C | omplete | JUNE 2 |
|---------------|--|---------------|--------|--------|----------|-------------|---------------|-------------------------|---------|--------|
| Departu | re Section Dip90 ⁰ | D | rilled | By BR | ITION BE | <u>xos.</u> | Logge | d By | D.C. PL | ECASH |
| Depth Feet | Formation | Sample No. | From | To | -Width | | 1 | Assav | 3 | |
| | ALTERED FOR .46M | | 1. j | | | | | | | |
| | 53.04M TO 53.34M ALTERED ZONE (LEACHED) | | | | | | | | | |
| | 54.71M TO 60.05M SOME LEACHING, LITTLE QUARTZ | | | | | | | | | |
| | BANDING AND BLEBS OF EPIDOTE UP TO 50M | | | | | | | | | |
| | 61.48M TO 70.17M CORE IS FINELY BRECCIATED WITH | | | | | | | | | |
| | ALOT OF EPIDOTE PHENOCRYSTS | | | | | | | | | |
| | 70.17M TO 70.71M CHLORITIC ALTERED PORPHYRITIC | | | | | | Å19 00-20- 10 | | | |
| | ANDESITE | | | | | | | | | |
| | 84.43M TO 85.65M ALTERED DARK ANDESITE | - | | | | | | | | |
| | IN BLEBS WITH IRON PYRITE CRYSTALS AND SOME | | | - | | | | | | |
| i | VISIBLE COPPER PYRITE | | | | | - | | | | |
| | 86.72M TO 90.89M MIXED MEDIUM GREEN ANDESITE | | | - | | | | | | |
| | BRECCIA WITH PORPYRITIC DIORITE. SOME IRON | | | | 21 - 1 | | | - | | |
| | PYRITE CRYSTALS. | | | | | | | | | |
| | 90.89M TO 93.48M PORPHYRITIC DIORITE | | | | | | | | | |
| | 93.48M TO 105.25M LIGHT GREEN ANDESITE WITH LITTLE | | | - | | | 1 | | | |

| atitud | eElevation_1264.9M Bearing reSectionDip90 ⁰ | D | epth 14 | 2.34M | Start | | <u>INE 20,</u> | <u>1991</u> (| D C I | · 21,15 |
|---------------|---|---------------|---------|--|--------|------------------|----------------|---------------|-------------|---------|
| epartu | reSectionDip90 | D | rilled | By E | RITION | <u>3RU5.</u> | Logge | d By | <u>D.C.</u> | |
| Depth Feet | Formation | Sample No. | From | То | Width | | | Assay | rs | |
| | QUARTZ AND EPIDOTE BANDING | | | | | | | | | |
| | 100.19M TO 100.37M BAND OF PORPHYRITIC DIORITE | | | | | | | | | |
| 105.25 | PORPHYRY DIORITE WITH SMALL AMOUNTS | | | | | | - | | | |
| 129.85 | OF IRON PYRITES THROUGHOUT. | | | | | | | | | |
| | 108.81M TO 110.03M 6MM BANDS OF QUARTZ CALCITE | | | | | | | | | |
| | 111.86M - 1.2CM BAND OF IRON PYRITES | | | | | | | | | |
| | 118.42M - HEAVY IRON PYRITES | | | | | | | | | |
| | 122.99M TO 123.14M BANDS UP TO 1.2CM THICK | | | | | | | | | |
| | OF IRON PYRITES. | | | an a | | | | | | - |
| 129.85 | A DARK BANDED CHLORITIC ALTERED ANDSITE | | | | | | | | | |
| 136.70 | MIXED WITH PORPHYRITIC DIORITE. SOME BANDS OF | | | | | | | | | |
| | QUARTZ. | | | | | a De la compa | | | | |
| | 132.62M TO 133.66M LIGHT SANDY GREEN ANDESITE (LEACHE | D) | | | | | | | | |
| 136.70 | M DARK GREEN CHLORITIC ALTERED ANDESITE | | | | | | | | | |
| 142.34 | M WITH IRON PYRITE BANDS | | | | | | | | | |
| | END OF HOLE AT 142.34M | | | | | | | | | |

| atitud | eElevation_1307.6MBearing | D | epth 1 | 53.93M | Start | ed JUI | NE 21, | <u>1991</u> C | omplet | ed_JUN | E 22, |
|-----------------|--|---------------|--------|-----------|---------------------|--------|-----------|---------------|--------|---------|----------------|
|)epartu | reSectionDip90° | D | rilled | By B D | RITION I RILLING | BROS. | Logge | i By | D.C. P | LECASH | |
| Depth Feet | Formation | Sample No. | From | To | Width | | T | Assav | 3 | | |
| 0 <u>3.66</u> M | OVERBURDEN | | | | | | | | | | |
| 3.66M | CHLORITIC ALTERED BRECCIATED ANDESITE | | | | | | . · · · · | | | | |
| 4.45M | WITH IRON PYRITES SCATTERED THROUGHOUT. | | | | | | | | | | 1. 1. 1. |
| | FAULT CONTACT WITH OXIDE STAINING ON FACE OF | | 24 - L | | | | | | | | |
| | CORE AT 4.45M. | | | | | | | | | | |
| 4.45M | DARK CHLORITIC ALTERED FINE BRECCIATED | | | | | | | | | | |
| 20.57M | ANDESITE WITH OCCASIONAL CLASTS UP TO 2.5CM | | | | | | | | | | |
| | IN SIZE. LITTLE IRON PYRITES UP TO 1%. SOME | | | - | | | | | | | |
| | VISIBLE COPPER PYRITE AND NATIVE COPPER. | | | | | | | | | | |
| | 11.58M TO 20.57M VEINLETS OF QUARTZ UP TO 6MM IN | | | | | | | | | | |
| | SIZE EVERY 30CM ALONG CORE | | | | | | | | | | |
| | 5.64M HAS A 10CM BAND OF LIGHT ANDESITE | | | | | | | | | | |
| | 8.53M HAS A 10CM BAND OF LIGHT ANDESITE | | | | | | | | | | |
| | 10.79M HAS A 8CM BAND OF LIGHT ANDESITE | | | - | | | | | | | |
| 20.57M | LIGHTER GREEN ANDESITES WITH SOME QUARTZ | | | | | | | | | | * • • |
| | BANDS UP TO 10CM WIDE. | | | | | | | | | ан 1 | |

| OLE | NO. | 9] | L-7 | ľ |
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| Latitud | e Elevation_1307.6M Bearing | D | epth_] | <u>153.93</u> M | | ed <u>JU</u> | <u>VE 21.</u> | <u>1991</u> L | pupter | | <u>√E_2</u> |
|---------------|--|---------------|--------|-----------------|--------|--------------|---------------|---------------|--------|----------|-------------|
| Departu | eElevation_1307.6MBearing reSectionDip | D | rilled | . ByE | RITION | BROS. | Logged | i By | D.C. F | PLECASH | 1 |
| Depth Feet | Formation | Sample No. | From | То | Width | | 1 | Assav | 3 | | |
| 27.88M | DARK GREEN HIGHER CHLORITIC ALTERED | | | ļ | | | | | | | |
| 33.74M | ANDESITE | | | | | | | | | | |
| | 31.70M TO 32.00M LIGHTER GREY GREEN ANDESITE | | | | | | | | ļ | | |
| 33.74M | LIGHT TO DARK GREY BANDED ANDESITE WITH | | | | | | | | | <u> </u> | |
| 35.72M | BANDS BEING EQUALLY 8CM APART. CORE TO BEDS AT 40° | | | | | | | | | | |
| | MIXED DARK GREEN AND MEDIUM GREY GREEN | | | | | | | | | | |
| 47.85M | ANDESITES WITH A FEW QUARTZ STRINGERS AND LITTLE | | | | | | | | | | |
| | EPIDOTE STRINGERS SOME IRON PYRITES AND SMALL | | | | | | | | | | |
| | SPECKS OF NATIVE COPPER. | | | | | | | | | | |
| 47.85M | DARK GREEN CHLORITIC ALTERED FINE | | | | | | | | | | |
| 53.95M | BRECCIATED ANDESITE. | | | | | | | | | | <u> </u> |
| 53.95M | MIXED DARK GREY AND BLACK ANDESITES | | | | | | | | | | |
| 56.63M | WITH 10% IRON PYRITES. | | | | | | | | | | |
| | 56.33M TO 56.63M BANDS OF QUARTZ UP TO 5.1M IN WIDTH | | | | | | | | | | |
| 56.63M | MEDIUM GREYISH GREEN ANDESITE WITH ABOUT | | | | | | | | | | · . |
| 66.23M | 25% QUARTZ STRINGERS AND BLEBS. SOME IRON PYRITES | | | | | | | | | | |

DIAMONT UNILL RECORD

HOLE NO. 91-7

Depth 153.93M Started JUNE 21,1991 Completed JUNE 22,1991

-990 Drilled By BRITTON BROS. Logged By D.C. PLECASH DRILLING

| an in the second se Second second | | an a | Sample | Trom | To | Width | and an and a second | Assavs | | | |
|---|--------------------|---|--------|--------|--|-------------|--|--------------------|---|------------|----------------|
| an a | | - Formation | No. | P.COM. | 10 | MIGCH | | (in the second | | | |
| | | | | | | | | | | | |
| | | SE REM 10 37 A 858 QUARTZ CONTENT. | | | | | | | | | |
| | | THE ANDESITE WITH | λ. | | | | | | | | |
| | | an a | | | | | | | | | - |
| | | ALL THE REPORT OF THE PROPERTY OF THE PROPERTY. | | | | | | | | | 00-12 00-12 |
| | | TRACING AND | | | | | | | | Ref | |
| | 그 말을 다 가 가 가 가 있다. | SERVICE A FER LETER STOPFERS DE TOTEME AND | | | | | | | | | - 1 to 8.17 |
| | | 58 73 TO 70. SAM HEAVY BRECCLATION. | | | | | | | | - 1994 | |
| | 72.24M | MEDILM GREY GREEN TO DARK GREEN BLACK | | | | | | | 2 | | |
| | 186,20M | ANDESITE BANDEL AND SLIGHTLY BRECCIATED. | | | | | | | | | |
| | | ODD INCLUSSION OF IRON FYRITE BLEBS. | | | | | | | | | |
| | 86.20M | MASSIVE WHITE AND LIGHT YELLOWISH GREEN | | | 1999 1991 1992 1997 1997 1997 | | | | · | | I |
| | 16.74M | QUARTZ | | | | | | | | | |
| | | 73.15M TO 74.37M BANDED SLIGHLY ARGILLACEOUS | | | | | | | | | |
| | | ALIERED SMALL SECTIONS OF GREEN ANDESITE | | | | | | | | | |
| | | MIXED WITH LATTER QUARTZ STRINGERS | | | | i santari i | ijes M | | • | | |

BURBRIDGE LAKE PROPERTY

Elevation 1307.6 M Latitude

Departure Section

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| Latitude | Elevation 1307.6M Bearing | D | epth_1 | 53.93M | Star | ed_J | UNE 21 | <u>,1991</u> | Complet | ed_JUN | E 22, |
|---------------|---|---------------|--------|--------|----------|------|----------|--------------|---------|--------|---------|
| Departur | eSectionDip90 ⁰ | D | rilled | | ITTON BI | ROS. | Logge | d By | D.C. P | LECASH | [|
| Depth Feet | Formation | Sample No. | From | То | Width | | <u> </u> | Assav | 3 | : | |
| 116.74M | MIXED MAROON, BLACK AND GREEN ANDESITE | | | | | | | | | | |
| 125.21M | WITH SMALL BANDS OF QUARTZ, LITTLE IRON PYRITES | | | | | | | | | | |
| | AND NATIVE COPPER | | | | | | | | | | 5 (AP 2 |
| | 123.63M TO 125.21M LIGHT TO MEDIUM GREY ANDESITES | | | | | | | | | | |
| | WITH A FEW QUARTZ STRINGERS UP TO 3MM IN SIZE. | | | | | | | | | | |
| 125.21M | LIGHT TO DARK GREEN BANDS OF ANDESITE | | | | | | | | N. | | |
| 153.93M | 125.21 TO 127.32M DARK GREEN COARSE. | | | | | | | | | | |
| | BRECCIATED ANDESITE | | | | | | | | | | |
| | 123.32M TO 130.15 MEDIUM GREEN BANDED AND | | | | | | | | | | |
| | SLIGHTLY BRECCIATED ANDESITE. | | | | | | | | | | |
| | 130.15M TO 136.09M MIXED MARCON AND GREEN BANDED | | | | | | | | | | |
| | ANDESITE WITH LITTLE EPIDOTE AND QUARTZ BANDS. | | | | | | | | | | |
| | 136.09M TO 138.69M MARCON ANDESITE BRECCIATED | | | | | | | | | | 1 |
| | AND BANDED. | | | • | | | | | | | |
| | 138.69 TO 141.06M MIXED MEDIUM TO DARK GREEN | | | | | | | | | | |
| | ANDESITE WITH BANDS AND BLEBS OF EPIDOTE | | | | | | | | | | |

| Latitud | | 1 A A A A A A A A A A A A A A A A A A A | | | | | | | | |
|---------------|---|---|--------|--------|----------|------------|--|--------|------------------|--|
| Departu | reSectionDip | D | rilled | By_BRI | TTON BR | Logged | i By <u></u> | D.C. P | LECASH | |
| Depth Feet | Formation | Sample No. | From | То | -Width | [| Assav | 3 | | |
| | 141.06M TO 142.65M LIGHT GREEN ANDESITE | | | | | | | | | |
| | WITH EPIDOTE. | | | | | | | | | |
| | 142.65M TO 146.70M MIXED MAROON AND GREEN ANDESITE | | | - | | | | | | |
| | WITH BANDS OF QUARTZ STRINGERS | | | | | | | | | |
| | 146.70M TO 149.11M MEDIUM GREEN BANDED ANDESITE. | | | | | | ARTINE Transmission | | | |
| | ARGILLACEOUS ALTERED CORE TO BEDS AT 25° TO 30° | | | | | 15 | | | | |
| | 149.11M TO 150.88M MARCON ANDESITE | | | | nga an | | an a | | paranti ing T | |
| | 150.88M TO 153.93M MEDIUM GREEN BANDED ANDESITES | | | | | | | | | |
| | WITH QUARTZ BANDS AND BLEBS UP TO 2.5CM WIDE. | | | | | | | | | |
| | 153.01M TO 153.93M MARCON ANDESITE ALTERED (LEACHED |). | | | | | | | | |
| | | | | | | | • | | | |
| | END OF HOLE AT 153.93M | | | | | | | | | |
| | | | | | <u>b</u> | | | | | |
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| PROPERT | | | | | 6 C. 6. | NO | | | | | |
|---------------|--|---------------|--------|-----------|---------|-------|--------|-------|---------|--------|-------|
| Latitude | Elevation 1295.4M Bearing | D | epth 1 | 63.68M | Start | ted_J | JNE 23 | ,1991 | Complet | ed_JUN | E 24, |
| Departur | 0 ₀₀ | | | | BRITTO | BROS | | | | | |
| Depth Feet | Formation | Sample No. | From | То | Width | | T | Assav | 3 | | |
| 0- 3.57M | OVERBURDEN | | | | | | | | | | |
| 3.57M | MIXED MEDIUM GREY TO BLACK ANDESITES | | | | | | | | | | |
| 8.53M | WITH SOME QUARTZ STRINGERS | | | | | | | | | | |
| 8.53M | MIXED MEDIUM GREY AND BLACK ANDESITES WITH | | | - *** | | | | | | | |
| 10.97M | BLACK SLATE. GRAPHITE ON FRACTURES. MAYBE LITTLE O | OAL? | | | | | | | | | |
| | SOME QUARTZ STRINGERS UP TO 3.7CM WIDE. | | | | | | | | | | |
| 10.97M | MIXED MEDIUM GREY AND BLACK ANDESITES | | | | | | | | | | |
| 17.74M | SOME BRECCIA BETWEEN 13.72M TO 14.02M AND BETWEEN | | | | | | | | | | |
| | 16.46M TO 16.76M FEW QUARTZ STRINGERS AND BLEBS. | | | | | | | | | | |
| 17.74M | LIGHT MEDIUM GREY GREEN ANDESITE WITH | | | | | | | | | | |
| 21.61M | SMALL QUARTZ STRINGERS 10CM BUFF QUARTZ | | | | | | | | | | |
| | CALCITE AT 18.90M | | | | | | | | | | |
| 21.61M | MEDIUM TO DARK GREY GREEN ANDESITES WITH | | | | | | | | | | |
| 34.99M | COARSE BRECCIA OF CLASTS UP, TO 5CM IN SIZE OF | | | | | | | | | | |
| | IRREGULAR SHAPES. FEW QUARTZ STRINGERS | | | | | | | | | | |
| | 22.49M TO 25.45M HEAVY BRECCIA | | | | | | | | | | |

| PROPERT | Y BURBRIDGE LAKE | | | | HOLE | NO. | 91-8 | | <u> </u> | | |
|---------------|--|---------------|--------|--------|--------------------|-------|-----------------|---------------|----------|---------|------|
| latitude | Elevation 1295.4M Bearing | D | epth_1 | 63.68M | Start | ed_JU | NE 23, | 1991 C | omplet | ed JUNE | 24,1 |
| | | | | | ITTON BI ILLING | | | | | | |
| Depth Feet | Formation | Sample No. | From | То | -Width | | ļ | Assav | 3 | | |
| | 30.18M TO 33.38M HEAVY BRECCIA | | | | | | | | | | |
| 34.99M | MIXED MEDIUM GREY ANDESITE WITH DARK GREYISH | | | | | | | | | | |
| 46.03M | GREEN ANDESITE. FINELY BRECCLATED WITH SOME | | | | | | | <u> </u> | | | |
| | BANDING BETWEEN 15° TO 20° TO CORE AXIS. | | | | | | | | | | |
| 46.03M | LIGHT SANDY GREEN ANDESITE WITH ALOT OF | | | | | | | | | | |
| 57.61M | QUARTZ MIXED WITH DARK GREEN ANDESITE THAT HAS | | | | | | | | | | |
| | NUMEROUS QUARTZ STRINGERS UP TO 6MM WIDE CHLORITIC | | | | | | | | | | |
| | ALTERED | | | | | | | | | | |
| | 46.03M TO 48.04M LIGHT SANDY GREEN ANDESITE | | | | | | | | | | |
| | 47.61M TO 47.85M QUARTZ. | | | | | | | | | | |
| | 53.40M TO 54.50M LIGHT SANDY GREEN ANDESITE | | | | | | | | | | |
| | WITH VERY LITTLE QUARTZ | | | | | | 1. ² | | | | |
| 57.61M | LIGHT GREEN QUARTZ WITH CALCITE STRINGERS | | | | | | | | | | |
| 68.82M | MIXED LIGHT GREEN SANDY ANDESITE WITH | | | - | | | | | | | |
| 78.09M | MAROON AND DARK GREEN ANDESITES | | | | | | | | | | |
| | 73.27M TO 73.52M FAULT ZONE. RECEMENTED QUARTZ | | | | | | | | | | |

| | Elevation 1295.4M Bearing | | | | | | | | | | |
|---------------|---|---------------|--------|----|---------------------|------|-------|-------|------|---------|---|
| Departur | eSectionDip90 ⁰ | D | rilled | | RITTON B RILLING | ROS. | Logge | d By | D.C. | PLECASI | H |
| Depth Feet | Formation | Sample No. | From | То | Width | | | Assay | 75 | 1 | 1 |
| | CALCITE. | | | | | | | | | | |
| | QUARTZ CALCITE STRINGERS UP TO 8CM WIDE AT 74.37M, | | | | | | | | | | |
| | 74.68M AND 75.32M. MOST QUARTZ CALCITE HAS A YELLOW | | | | | | | | | | |
| | BROWN COLOUR. | | | | | | | | | | |
| 78.09M | LIGHT TO MEDIUM AND DARK BANDS OF | | | | | | | | | | |
| 104.94M | ANDESITE, ARGILLACEOUS ALTERED, BANDING. | | | | | | | | | | |
| | AT 30° TO 35° TO CORE AXIS AT 78.64M TO 79.25M | | | | | | | | | | |
| | 10CM QUARTZ AT 79.40M | | | | | | | | | | |
| | 10CM QUARTZ AT 79.71M | | | | | | | | | | |
| | 8CM QUARTZ AT 80.07M | | | | | | | | | | |
| | 13CM QUARTZ AT 82.30M | | | | | | | | | | |
| | 23CM QUARTZ AT 82.63M | | | | | | | | | | |
| | 84.64M TO 86.99M BRECCIATED | | | | | | | | | | |
| | 89.00M BANDING AT 15° TO CORE AXIS | | | | | | | | | | |
| | 90.53M TO 93.67M BRECCIATED | | | | | | | | | | |
| | 102.54M TO 103.33M BRECCIATED BLACK ANDESITE | | | | | | | | | | |

| PROPERTY | BURBRIDGE LAKE | | | | HOLE | NO | 91-8 | | | | |
|---------------|---|---------------|--------|-------------|---------------------------|-----------------|--------|-------|--|--------|--------------|
| atitude | Elevation 1295.4M Bearing | D | epth_1 | 63.68M | Start | ed_JU | NE 23. | 1991 | Complet | ed_JUN | <u>E 24.</u> |
| Departure | Elevation 1295.4M Bearing Section Dip -90 ⁰ | D | rilled | By BR DR | <u>ITTON BE</u> ILLING | . 05 | Logged | d By | D.C. | PLECAS | <u>5H</u> |
| Depth Feet | Formation | Sample No. | From | To | -Width | | | Assay | 75 | | |
| | WITH QUARTZ STRINGERS THROUGHOUT.PHENOS | | | | | | | | | | |
| | HAVE A TAN YELLOW HUE, PROBABLY EPIDOTE | | | | | | | | 1 | | |
| 04.94M | MIXED MARCON AND LIGHT TO DARK GREEN | | | | | | | | | | |
| 45.39M | ANDESITE, SOME QUARTZ VEINS AND BLEBS EPIDOTES, | | | | | | | | | | |
| | ARGILLITIC ALTERED | | | | | | | | | | |
| | 113.08M TO 116.74M MARCON BRECCIATED ANDESITE | | | | | | | | an a | | |
| | 120.79M TO 121.00M SANDY COLOUR QUARTZ | | | | | | | | | | |
| | 120.09M TO 125. 27MCOARSLY BRECCIATED WITH EPIDOTE | | | | | | | | | | |
| | 122.84M TO 123.45M 20% OF IRON PYRITE | | | | | | | | | | |
| | 129.45M TO 131.52M DARKER MARCON AND GREEN ANDESITE | | | | | | | | | | |
| | WITH ODD PIECE OF EPIDOTE TO 5CM WIDE. | | | | | | | | | | |
| | 131.52M TO 138.99M MIXED MAROON AND MEDIUM | | | | | | | | | | |
| | GREEN BRECCIATED ANDESITE WITH LARGE PHENOS OF | | | | | | | | | | |
| | EPIDOTE AND SOME COPPER PYRITE STRINGERS UP TO | | | | | | | | | | |
| | 9CM WIDE | | | | | | | | | | |
| | 138.99M TO 140.51M MARCON ANDESITE WITH CHARDS | | | | | | | | | | 1.1 |

| latitude_ | Elevation 1295.4M Bearing | D | epth ¹ | 63.68M | Started | JUNE 23 | 3,1991 C | omplet | ed JUNE | 24, |
|------------------|---|---------------|-------------------|-------------|------------|---------|----------|----------|---------|-----------|
| Departure | Elevation 1295.4M Bearing SectionDip | D | rilled | By BR DR | ITTON BROS | Logg | ged By | D.C. | PLECAS | <u>:H</u> |
| Depth Feet | Formation | Sample No. | From | То | -Width | | Assav | s | | |
| | OF EPIDOTES AND SMALL QUARTZ STRINGERS | | | | | | | <u> </u> | | |
| | 140.51M TO 145.39M MEDIUM GREEN ANDESITES | | | | | | | | | |
| | WITH NUMEROUS QUARTZ STRINGERS RADIATING IN ALL | | | | | | | | | |
| | DIRECTIONS. | | | | | | | | | |
| 145.39M | DARK MARCON ANDESITE WITH THE ODD | | | | | | | | | |
| 147.28M | QUARTZ STRINGER | | | | | | | | | |
| 147.78M | MEDIUM GREEN BRECCIATED ANDESITE AND | | | | | | | | | |
| 151.09M | BANDED WITH ALOT OF QUARTZ STRINGERS CORE TO | | | | | | | | | |
| | BEDS AT 150.88M IS 35°. | | | | | | | | | |
| 151.09M | DARK MAROON ANDESITE WITH THE ODD NARROW | | | | | | | | | |
| 152.86M | QUARTZ STRINGER. | | | | | | | | | |
| 152.86M | MIXED BANDED MAROON AND MEDIUM GREEN ANDESITE | | | | | | | | | |
| 154 . 78M | 154.29M TO 154.54M LARGE PIECES OF EPIDOTE | | | | | | | | | |
| 154 . 78N | BANDED DARK MAROON ANDESITE WITH THE ODD | | | | | | | | | |
| 156.36N | NARROW QUARTZ STRINGER | | | | | | | | | |
| 156.36N | MEDIUM GREEN ANDESITE WITH ALOT OF EPIDOTE | | | | | | | | | |

| atitude_ | Elevation 1295.4M Bearing | De | epth 1 | 63.68M | _ Start | ed JUI | NE 23,1 | <u>.991</u> Co | mplete | a june | . 24, |
|----------|--|---------------|--------|--------|----------|--------|---------|----------------|-----------------|--------|----------|
| eparture | SectionDip90 ⁰ | D1 | rilled | By BR | ITTON BE | XOS. | Logged | By_D | .C. PL | ECASH | - |
| Depth | | Sample No. | From | То | Width | | | Assavs | | | |
| Feet | Formation | 10. | | | | | | | | | |
| | 15CM OF QUARTZ AND EPIDOTE AT 157.13M | | | | | | | | | | |
| | 158.19M TO 158.65M ZONE OF CRUSHED AND LEACHED | | | | | | | | | | |
| | TAN COLOURED QUARTZ CALCITE. | | | | | | | | | | |
| | 159.11M TO 159.56M HEAVY EPIDOTE | | | | | | | | | | <u> </u> |
| 159.56M | DARK MAROON ANDESITE WITH SOME OXIDE | | | | | | | | | | |
| | ON FRACTURES. | | | | | | | 1 | 1. <u>1</u> . 1 | | |
| | 160.51M - 18CM QUARTZ ZONE. | | | | | | | | | | |
| | | | | | | | | | | | <u> </u> |
| | END OF HOLE AT 163.68M | | | | | | | | <u> </u> | | |
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| atitude | Elevation 1172.6M Bearing | | | | | | | | | | |
|---------------|---|---------------|--------|----|----------|------------|--------|-------|--------|--------|----------|
| Departure | Section Dip -90 ⁰ | D | rilled | | ITTON BE | <u>xos</u> | Logged | i By_ | D.C. P | LECASH | |
| Depth Feet | Formation | Sample No. | From | То | Width | | 1 | Assa | ₩5 | | |
| 0- 4.51M | OVERBURDEN | | | | | | | | | | <u> </u> |
| 4.51M | MEDIUM TO COARSE GRAIN DIORITE WITH | | | | | | | | | | |
| 25.12M | QUARTZ STRINGERS AND ANDESITE APPEARING | 5 94 (1) | | - | | | | | | | |
| | SPORADICALLY. SLIGHTLY CHLORITIC ALTERED | | | | - | | | | | | · · · |
| | 5CM QUARTZ AT 5.55M | | | | | | | | | | |
| | 23CM QUARTZ AT 13.90M | | | | | | | | | | |
| | 8CM QUARTZ AT 19.66M WITH SOME COPPER PYRITE. | | | | | | | | | | |
| 25.12M | MIXED QUARTZ DIORITE SILL WITH SOME | | - | | | - | | | | | |
| 30.36M | ANDESITE, SLIGHTLY CHLORITIC ALTERED 15% IRON | | | | | | | | | | |
| | PYRITES. | | | | | | | | | | |
| 30.36M | QUARTZ DIORITE WITH UP TO 80% IRON PYRITES. | | | | | | - | | | | |
| 33.22M | QUARTZ DIORITE WITH SOME IRON PYRITES | | | | | | | | | | |
| 36.30M | FOLIATED ANDESITE WITH BANDS OF QUARTZ | | | | | | | | | | |
| 46.15M | CALCITE. ARGILLACEOUS ALTERED WITH BANDING | | | | | | | | | | |
| | AT 30° TO CORE AXIS. CORE IS VERY LIMEY | | | | | | | | | - | |
| 46.15M | MARCON AND GREEN ANDESITE BRECCIA. SOME | | | | | | 1 | | | | |

| | Elevation <u>1172.6M</u> Bearing | | | | | | | | | | |
|---------------|---|---------------|-------|-------------|----------|------|-------|----------------|---------|--------|--|
| Departure | SectionDip90 ⁰ | D | illed | By BF DF | RITTON B | ROS. | Logge | d By <u></u> [|).C. PI | LECASH | |
| Depth Feet | Formation | Sample No. | From | То | Width | | 1 | Assav | \$ | | |
| 78.43M | VISIBLE NATIVE COPPER AND BORNITE | | | | | | | | | | |
| | 46.54M TO 50.99M SOME EPIDOTE AND ARGILLITE | | | | | | | | | | |
| | 46.48M TO 52.12M THERE IS ABOUT 15% OF | | | | | | | | | | |
| | BANDS AND BLEBS OF QUARTZ CALCITE | | | | | | | | | | |
| | 52.52M TO 54.26M DIABASE DYKE | | | | | | | | | | |
| | 57.61M TO 58.83M DIABASE DYKE | | | | | | | | | | |
| | 60.66M TO 62.48M DIABASE DYKE | | | | | | | | | 1 1 1 | |
| | 62.48M TO 65.23M THE CORE IS DEEPER MARCON | | | | | | | | | | |
| | COLOURED | | | | | | | | | | |
| | 71.63M TO 78.43M COARSE BRECCIA WITH SOME EPIDOTE | | | | | | | | | | |
| | APPEARING TO A MAXIM | | | | | | | | | | |
| | AMOUNT OF 90% AT 75.20M TO 75.41M | | | - | | | | | | | |
| 78.43M | MIXED GREEN ANDESITE WITH QUARTZ STRINGERS | | | | | | | | | | |
| 86.99M | AND EPIDOTE. QUARTZ STRINGERS UP TO 3.5CM IN | | | - | | | | | | | |
| | WIDTH | | | | | | | | | | |
| | 81.23M TO 82.14M DIABSE DYKE | | | - | | | | | | | |

| Latitude | Elevation 1172.6M Bear | ing | D | epth g | 2.05M | Star | ted_JUI | VE 24, | 1991 | Complet | ed_JU | NE 2 |
|---------------|---|------------------|---------------|-------------|-------|---------|---------|--------|-------|---------|--------|------|
| Departure | Elevation 1172.6M Bear e Section Dip_ | -90 ⁰ | D | rilled | By BR | ITTON B | ROS. | Logged | d By | D.C. F | LECASH | |
| Depth Feet | Formation | | Sample No. | From | To | Width | | | Assav | 's | | |
| 86.99M | GREEN ANDESITE BRECCIATED TUFFS WITH SOME | | | | | | | | | | | |
| 92.05M | MAROON ANDESITES AND BLEBS OF EPIDOTE SMA | ALL BANDS | | | | | | | - | | | |
| | AND BLEBS OF QUARTZ CALCITE | | | | | | | | | | | |
| | LITTLE NATIVE COPPER SHOWING UP | | | | | | | | | | | |
| | | | | | | | | | | | | |
| | END OF HOLE AT 92.05M | | | - - - | | | | | | | | |
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| atitude | Elevation 1157.5M Bearing | D | epth_o | 06.62M | Start | ed JU | NE 26, | <u>1991</u> C | omplet | ed JUN | E 26, |
|--------------------|---|---------------|--------|--------------|---------|------------|--------|---------------|---------|--------|-------|
|)epartur | eSectionDip90 ⁰ | D | rilled | By BRI DF | TTON BR | <u>os.</u> | Logged | i By | D.C. PI | LECASH | |
| Depth Feet | Formation | Sample No. | From | То | Width | | | Assav | 3 | | |
| ⁰ 4.57M | OVERBURDEN | | | | | | | | | | |
| 4.57M | MAROON AND GREEN MIXED ANDESITE BRECCIA | | | | 2 | | | | | | · · · |
| 33.59M | WITH FINE SPECKS OF NATIVE COPPER AND A LITTLE | | | | | | | | | | |
| | BORNITE. SLIGHTLY LIMEY. CORE HAS SOME VEINLETS | | | - | | | | | | | |
| | OF QUARTZ CALCITE THROUGHOUT UP TO 3CM IN SIZE. | | | | | | | | | | |
| | 4.57M TO 6.71M CORE IS FINER GRAINED | | | | | | | | | | |
| | WITH CALCITE STRINGERS INCREASING FROM ONE EVERY | | | | | | 1 | | | | |
| | 30CM TO ONE EVERY 2CM. | | | | | | | | | 9 1 | |
| | 5.49M TO 5.88M SOME EPIDOTE APPEARING | | | | | | | | | | |
| | 5.88M TO 6.71M CORE IS ALOT GREENER IN COLOUR | | | | | | | | | | |
| | 6.71M TO 23.01M COARSER MARCON ANDESITE BRECCIA. | | | | | | | | | | |
| | 13.56 TO 14.33M GREEN ANDESITE BRECCIA | | | | | | | | | | |
| | 14.33 TO 15.39M VERY COARSE ANDESITE BRECCIA WITH | | | | | | | | | | |
| | CLASTS UP TO 5CM IN SIZE | | | | | | | | | 8 | |
| | 22.40M TO 23.01M CORE HAS CHANGED TO A | | | | | | | | | | |

| | Elevation 1157.5M Bearing | D | epth_ | 96.62M | Star | ted JU | NE 26, | 1991 0 | omplet | ed JUN | <u>E 26</u> |
|---------------|---|---------------|--------|--------|----------|--------|--------|--------|--------|--------|-------------|
| Departur | reSectionDip | D | rilled | By_B | RITION E | ROS. | Logge | d By | D.C. P | LECASH | [|
| | | | | | RILLING | - | | | 1 | | |
| Depth Feet | Formation | Sample No. | From | To | Width | | 1 | Assav | 3 | | 1 |
| | HIGHLY ALTERED | | | | | | | | | | |
| | 23.01M TO 23.84M CORE IS GREENISH BLACK WITH A | | | | | | | | | | |
| | SLIGHT SHADE OF MARCON | | | | | | | | | | |
| | 25.15M TO 26.67M FINE GRAINED AND DARKER MARCON | | | | | | | | | | |
| | BRECCIATED ANDESITE. | | | | | | | | | | |
| | 26.67M TO 27.74M GREENER BRECCIATED ANDESITE | | | | | | | | | | |
| | WITH BANDS OF QUARTZ CALCITE UP TO 5CM WIDE. | | | | | | | | | | |
| | 27.74M TO 33.59M DARKER MARCON FINE GRAINED | | | | | | | | | | |
| | BRECCIATED ANDESITE TUFF. FINE SPECKS OF NATIVE | | | | | | | | | | |
| | COPPER | | | | | | | | | | |
| | 33.59M CONTACT OF RECEMENTED QUARTZ CALCITE | | | | | | | | | | |
| 33.59M | MIXED GREEN AND MARCON ANDESITE TUFFS | | | | | | | | | | |
| 96.62M | WITH SOME BRECCLATION. GREEN PREDOMINATING | | | | | | | | | | |
| | PROBABLY DUE TO A HIGHER CHLORITIC ALTERATION | | | | | | | | | | |
| | QUARTZ CALCITE STRINGERS AND BLEBS THROUGHOUT. | | | | | | | | | | |
| | EPIDOTE AND BRECCIA STARTS TO APPEAR AT | | | | | | | | | | |

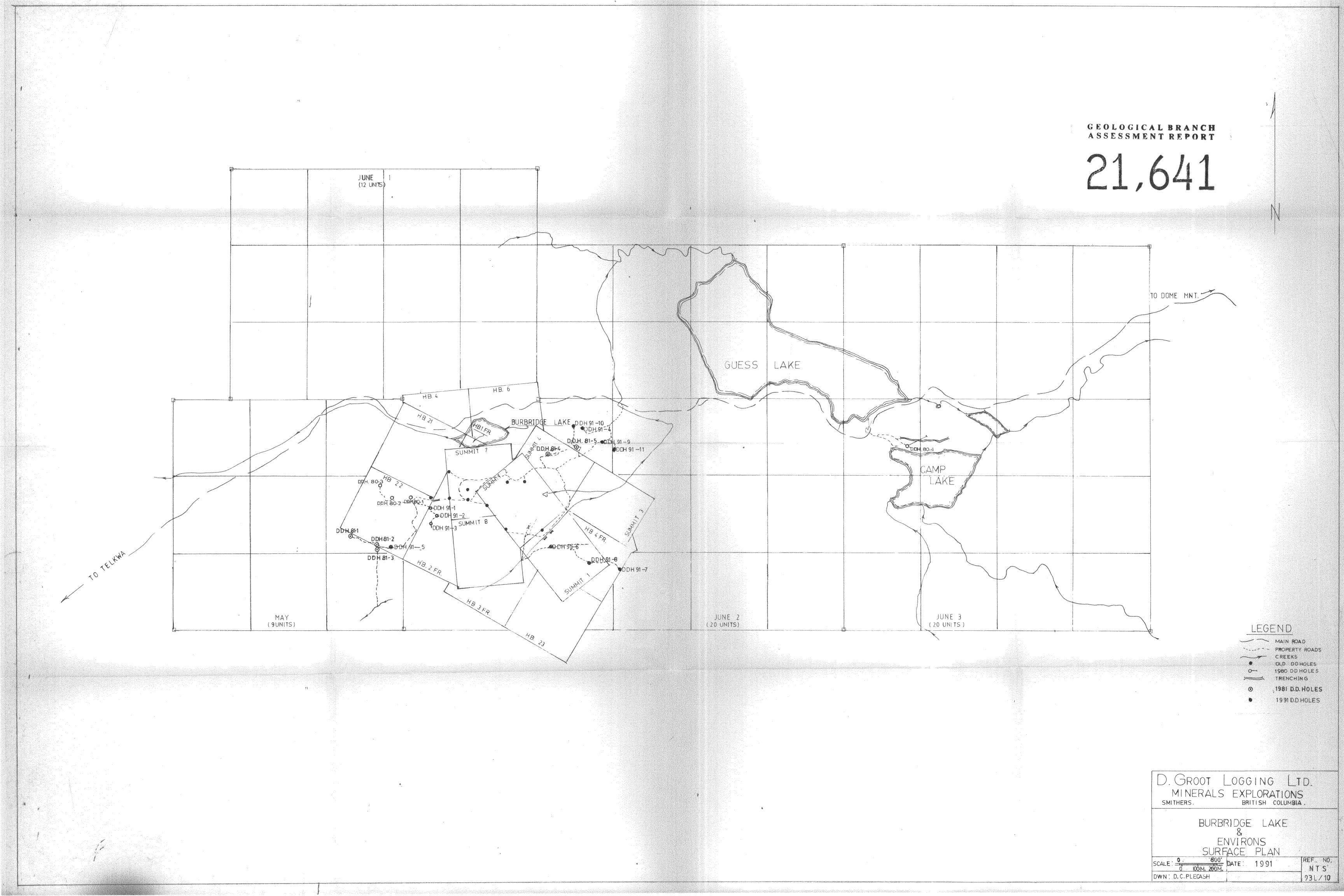
| atitud | e Elevation 1157.5M Bearing | D | epth_ | 96.62M | Star | ted_J | UNE 26 | ,1991 ₀ | omplet | ed_JUN | E 26, |
|---------------|--|---------------|-------|--------|---------|-------|--------|--------------------|--------|--------|-------|
| | re Section Dip_ ^{-90⁰} | | | By BR | ITTON B | | | | | | |
| Depth Feet | Formation | Sample No. | From | To | Width | - | 1 | Assav | 8 | | |
| - | 41.45M AND INCREASES UP TO 50.54M MORE SMALL SPECKS | | | | | | | | | | |
| | OF NATIVE COPPER AND BORNITE APPEARING | | | | | | | | | | |
| | 50.54M CONTACT OF RECEMENTED QUARTZ | · | | | | | | | | | |
| | CALCITE 4CM ZONE. | | | | | | | | | | |
| - | 36.27M TO 36.42 HAS TWO 5CM QUARTZ CALCITE STRINGERS | | | | | | | | | | |
| | 46.94M TO 47.55M NUMEROUS STRINGERS OF QUARTZ | | | | | | | | | | |
| | CALCITE | | | | | - | | | | | |
| | 50.54M TO 55.99M CORE IS DENSER GREEN | | | | | | | | | | |
| | WITH MORE QUARTZ CALCITE STRINGERS UP TO 5CM THICK. | | | | | | | | | | |
| | 55.99M TO 60.41M DARK GREEN ANDESITE WITH A LITTLE | | | - | | | | | | | |
| | MARCON ANDESITE MIXED IN AND UP TO 40% EPIDOTE. | - | | - | | | | | | | |
| | LITTLE NATIVE COPPER 60.41M TO 65.44M LIGHTER | | | | | | | | | | |
| | GREEN ANDESITE TUFFS MIXED WITH GREEN ANDESITE | | | | | | | | | | |
| | BRECCIA THAT IS 70% EPIDOTE AND 15% QUARTZ CALCITE | | | | | | | | | | • |
| | BLEBS AND STRINGERS | | | | | | | | | | |
| | 65.44M TO 72.24M MIXED LIGHT GREEN TO ALMOST SAND | | | | | · | | | | | |

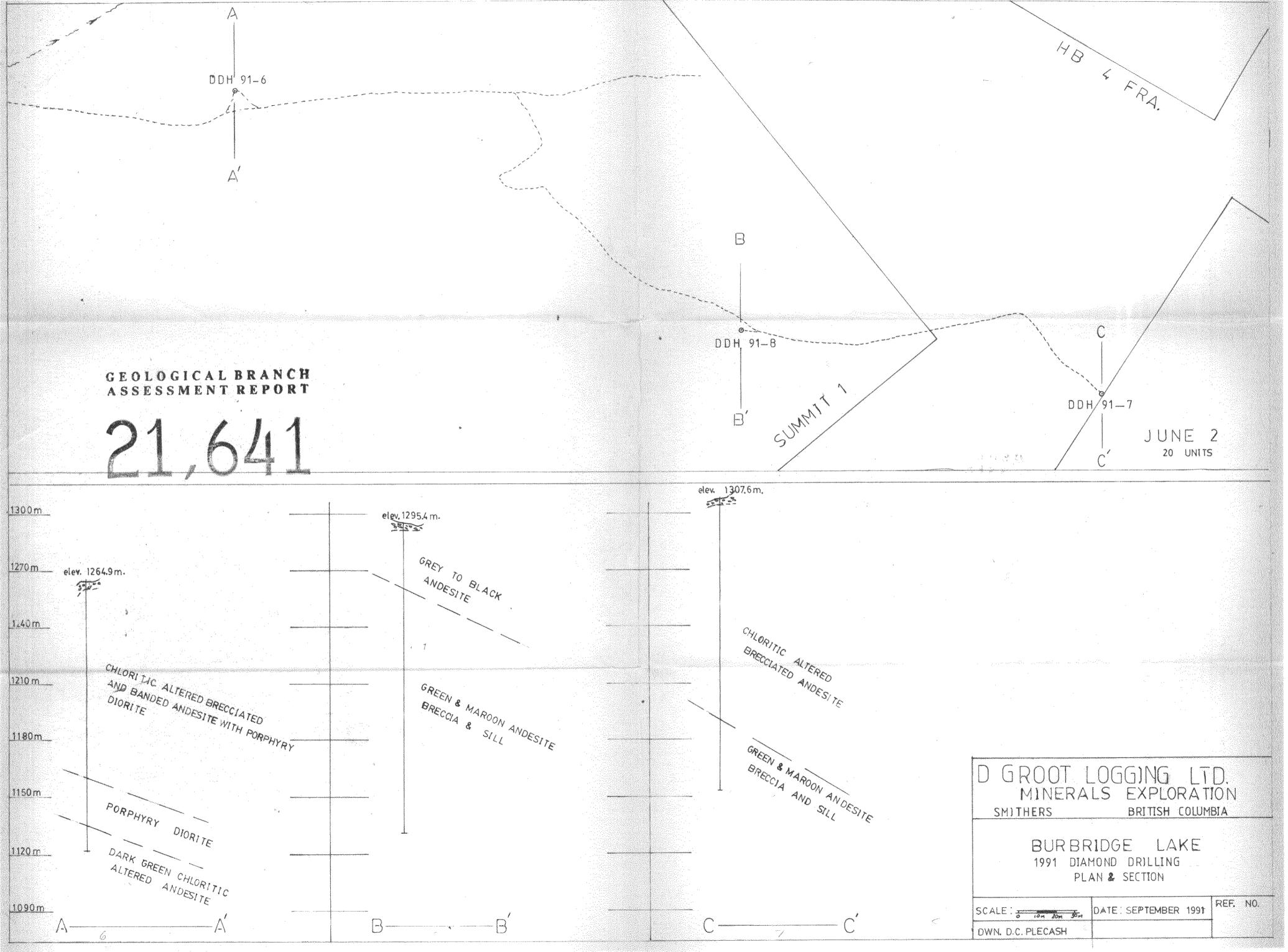
| Latitude | Elevation 1157.5M Bearing | D | epth 9 | 6.62M | Start | ed JUI | E 26,1 | .991 (| Complet | ed JUN | E 26 |
|----------|---|--------|-------------------------------|---------|------------------|----------------|----------|--------|---------|----------|------|
| | e Section Dip | |) ^O Drilled By BRI | | | | | | | | |
| Depth | | Sample | From | | ULLING -Width | | | Assay | 73 | | |
| Feet | Formation | No. | | | | <u> </u> | 1 | | | | i |
| | COLOURED ANDESITE WITH DARK GREEN ANDESITE TUFFS | | | | | | | · · | | | |
| | AND BRECCIA INTERFACED WITH EPIDOTE, QUARTZ CALCITE | | | | | | | | | | |
| | AND MARCON ANDESITE. VISIBLE NATIVE COPPER AND | | | | | | | | | | |
| | BORNITE, ESPECIALLY IN THE MARCON ANDESITE, | | | | | | | | | | |
| | 72.24M TO 92.05M MIXED ANDESITE TUFFS AND BRECCIA | | | | | | | | | | |
| | OF LIGHT TO DARK GREEN, WITH AREAS OF INTENSE | | | | | | | | | | |
| | EPIDOTE AT 74.21 TO 75.90M AND 80.93M TO 87.48M | | | | | | | | | <u> </u> | ļ |
| | 77.79M TO 78.88M CHOCOLATE BROWN EPIDOTE WITH | | | | | | | | | | |
| | SPECKS OF NATIVE COPPER AND BORNITE 84.10M TO | | | - | | н. 1. 1. | | | | | |
| | 84.22M QUARTZ STRINGERS | | | | | | | | | | |
| | 92.05M TO 96.62M MEDIUM GREEN ANDESITE | | | | | | | | | | |
| | TUFFS WITH LITTLE BRECCIATION CORE IS VERY HARD. | | | · · · . | | | <u> </u> | ļ | | | ľ. |
| | 96.32M TO 96.62M SOME MARCON ANDESITE APPEARING | | | | | | | | | | |
| | WITH SOME SMALL SPECKS OF NATIVE COPPER. | | | | | | | | | | |
| | | | | | | | | | | | |

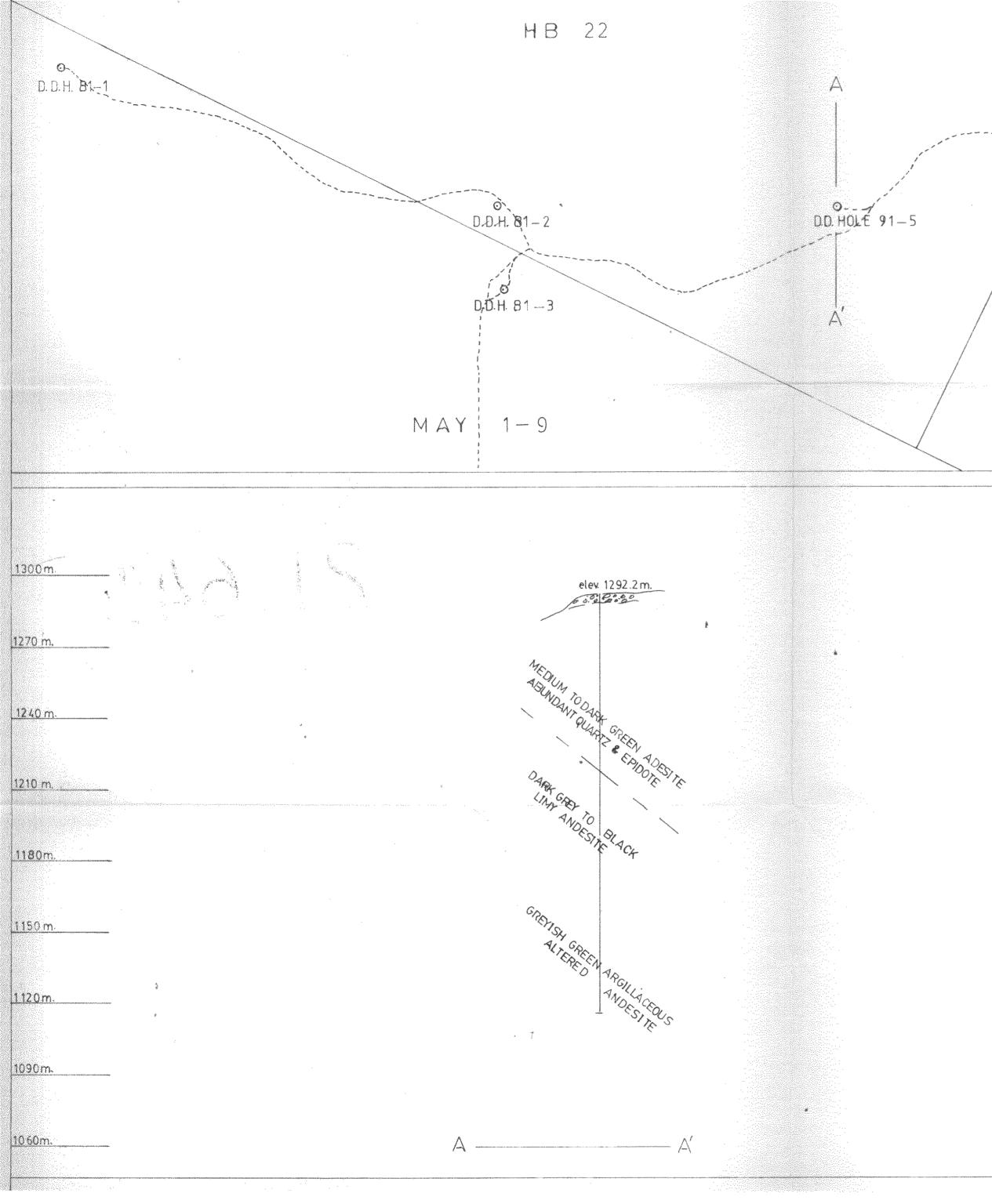
| Latitude | Elevation 1170.1M Bearing | D | epth_1 | 21.01M | Star | ted JI | JNE 25,1 | .991 | Complet | ed_JUN | <u>E 26,1</u> |
|---------------|---|---------------|-----------|--------|--------|--------|----------|---------|---------|--------|---------------|
| | ceSectionDip90 ⁰ | | | By BR | | | | | | | |
| Depth Feet | Formation | Sample No. | From | To | -Width | | | Assa | 43 | | |
| 0- 4.75M | OVERBURDEN | | | | | | | | | | |
| 4.75M | FINE GRAIN TO MEDIUM GRAIN DIORITE SLIGHTLY | | | | | | | | | | |
| 46.27M | CHLORITIC ALTERED WITH A FEW STRINGERS OF QUARTZ | | | | | | | | | | |
| | CALCITE. LITTLE AMOUNTS OF IRON PYRITES THROUGHOUT. | | | | | | | | | | |
| | 4.75M TO 8.23M CORE IS FINER GRAINED AND DARKER. | | - - | | | | | | | | |
| | SOME QUARTZ STRINGERS UP TO 5CM WIDE IRON PYRITE | | | | | | | | | | |
| | STAINING ON FRACTURES. 0.91 CORE LOSS. | | 1.1. 1 | | | | | | | | |
| | 17.83M TO 19.17M CORE IS DARKER WITH QUARTZ | | | | | | | | | | |
| | STRINGERS | | | | | | | | | | |
| | 19.17M TO 21.55M LIGHT LEACHED OUT (ALTERED) | | | | | 1 | | | | | |
| | DIORITE. SOME QUARTZ STRINGERS WITH IRON | | | | | | | | - | | |
| | PYRITES | | | | | | | | | | |
| | 21.55M TO 28.96M DARKER DIORITE WITH FINE TO COARSE | | | | | | | - 1 | | | |
| | TEXTURE ALMOST GNEISSIC | | | | | | | | | | |
| | 38.86M TO 42.82M DARKER DIORITE WITH MORE QUARTZ | | | | | | | | | | |
| | STRINGERS | | | | | | | | | | |

| Latitude_ | Elevation 1170.1M Bearing | D | epth 1 | 21.01M | Star | ted_JU | NE 25, | 1991 (| Complet | ed_JU | <u>NE 26</u> |
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| Departure | Section Dip | D | rilled | | RITION | | Logge | d By_ | D.C. | , PLEC | ASH |
| Depth Feet | Formation | Sample No. | From | То | Width | | | Assa | 73 | | |
| | 44.71M TO 46.27M FINER GRAINED QUARTZ STRINGERS | | | | | | | | | | |
| | UP TO 4CM WIDE | | | | | | | | | | |
| 46.27M | MIXED DIORITE AND LIGHT GREEN ANDESITE | | | | | | | | | | |
| 50.69M | THAT HAS CALCITE THROUGHOUT | | | | | | | | | | |
| 50.69M | MIXED ARGILLICEOUS ALTERED ANDESITE | | | | | | | | | | |
| 60.69M | WITH DIORITE THAT IS ALMOST 80% CALCITE ALMOST | | | | | | | | | | |
| | CLAY AND LIMEY. SOME IRON PYRITES THROUGHOUT | | | | | | | | | | |
| | CORE. | | | | | | | | | | |
| 60.69M | GREEN TO SLIGHT MAROON ARGILLICEOUS | | | | | | | | | | |
| 64.31N | ALTERED ANDESITES MIXED QUARIZ CALCITE AMOUNTING | | | | | | | | | | |
| | TO 35% OF CORE. LIMEY. LITTLE IRON PYRITE | | | | | | | | | | |
| | FOLIATED TO 22 ⁰ . | | | | | | | | | | |
| 64.31M | MIXED GREEN AND MAROON BRECCIATED ANDESITES | | | | | | | | | | |
| 94.28M | WITH ZONES OF QUARTZ CALCITE UP TO 50% OF | | | | | | | | | | |
| | CORE. LITTLE SPOTS OF NATIVE COPPER AND BORNITE | | | | | | | | | | |

| | Elevation 1170.1M Bearing | | - | | | | 1. The second | 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - | | | |
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| Departur | reSectionDip90 ⁰ | D | rilled | By BR | ITTON B | ROS. | Logged | i By | D.C. 1 | PLECAS | <u>I</u> |
| Depth Feet | Formation | Sample No. | From | To | Width | | 1 | Assav | .a | | |
| | 79.07M TO 81.53M DIABASE DYKE WITH IRON PYRITES | | | | | | | | | | |
| | 88.55M TO 91.75M DIABASE DYKE WITH IRON PYRITES | | | | | | | | | | |
| | 78.03M TO 92.54M CORE IS TRENDING TO THE MORE | | | | | | | | | | |
| | MAROON COLOUR WITH LESS QUARTZ CALCITE STRINGERS | | | | | | | | | | |
| 94.28M | MEDIUM TO DARK GREEN AND MARCON ANDESITE | | | | | | | | | | |
| 121.014 | TUFFS | | | 1. 1. | | | | | | | |
| | 99.37M TO 101.65M ALOT OF QUARTZ CALCITE AND EPIDOTE | | | | | | | | | | |
| | COARSELY BRECCIATED ANDESITES WITH LITTLE EPIDOTE | | | | | | | | | | |
| | IN THE COARSE BRECCIATION. VERY SILICEOUS SOME | | | | | | | | | | |
| | VISIBLE NATIVE COPPER. | | | | | | | | | | |
| | | | | | | - | | | | | |
| | END OF HOLE AT 121.01M | | | | | | | | | | - |
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H.B. 2FRA.

GEOLOGICAL BRANCH ASSESSMENT REPORT

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| D GROOT L | OGGING L | ΓD. |
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| MINERAL SMITHERS | S EXPLORA BRITISH COLUM | TION IBIA |
| 1991 DIAMO | DGE LAKE NDDRILLING SECTION | |
| SCALE - 1001 2011 30 M | DATE: SEPTEMBER 1991 | REF. NO. |
| DWN: D.C.PLECASH | | |

