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

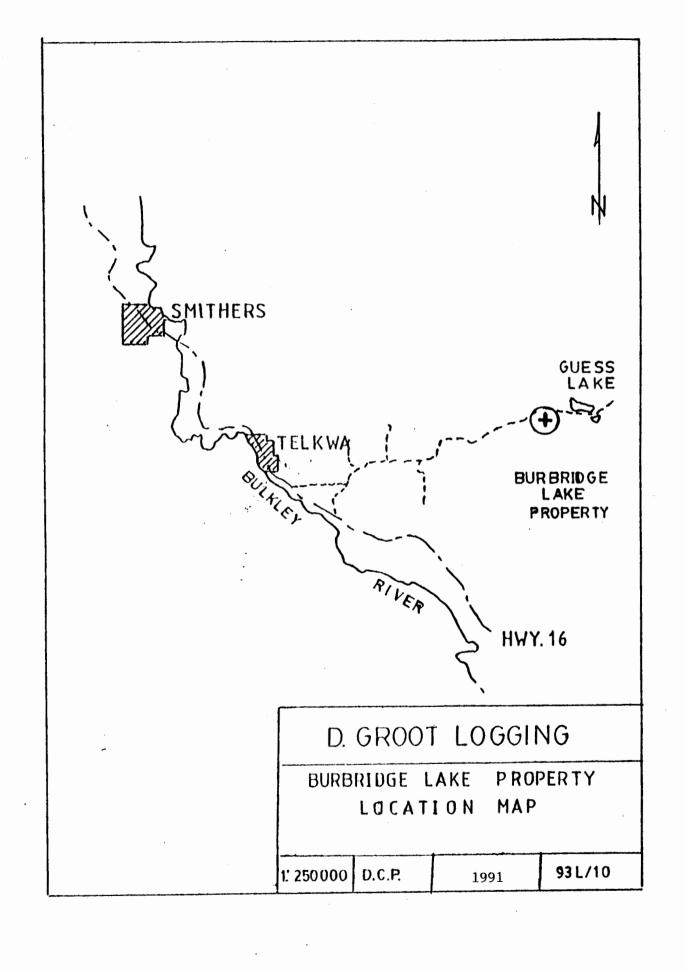


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GEOLOGICAL BRANCH ASSESSMENT REPORT

21,446

BRITISH COLUMBIA OMINECA M.D. - 93/L BURBRIDGE LAKE PROPERTY

SUMMARY:

Between April 1991 and May 1991, D. Groot Logging Ltd. of Smithers, B.C. did work on the Burbridge Lake Property. The main road into the property was cleared of snow and the existing road up to the area of the Diamond Drill program was plowed off of snow. 284M of road was constructed to get access into the Diamond Drill Sites.

Three Diamond Drill holes were completed on the property. The three Diamond Drill holes were drilled to see if the stock work from the drilling done in 1977 by Asarco went to depth. In 1980 three Diamond Drill holes were drilled to the West and no significant mineralization was found, so the next step was to drill to the South of hole 77-6 of Asarco to see what was at depth. Drill hole 91-1 intersected from 0-51.51M light to dark andesitic tuffs pervasively chloritic altered from minor to major amounts of alteration. This zone has had some remobilation and has areas of quartz and quartz calcite in the core.51.51M - 183.49M, porphryitic diorite mixed with a diorite sill that gradually becomes a total porphyritic diorite, there are fine grained blebs and veinlets of iron pyrites. In the diorite there is a zone of a greater intensity of phenocrysts that are more calcinized than normal. This zone is between 87.17M to 109.12M. The diorite is all chloritic altered from a minor nature to a more intense nature. From 183.49M - 200.26M the core is a coarse to light grained porhyry diorite with very pervasive chlorite alteration. Diamond Drill hole 91-2 intersected from 0 to 64.60M a light to dark andesite tuff pervasively chloritic altered. There are zones of quartz blebs and veinlets throughout the core. Numerous small fault zones are observed in the core. From 64.60M to 185.02M, porphryitic diorite mixed with a diorite sill that phases into a complete porphryitic diorite. The diorite is chloritic altered from slight amounts to abundant amounts. There is blebs and veinlets of iron

pyrite throughout the core from minor to substantial amounts. In the diorite there is a zone of a greater intensity of phenocrysts that are more calcinized than normal. This zone is between 133.05M - 163.07M. From 185.02M to 206.35M the core is a coarse to fine grained porphry diorite with very pervasive chlorite alteration. Diamond Drill hole 91-3 intersected from 0 to 105.95M light to dark andesite tuff pervasively chlorite alteration. Some faults noted in the core. Fair amount of quartz blebs and veins. There seems to be alot more purple andesite in the core than noted in the previous Diamond Drill holes. 105.95M - 236.83M porphryitic diorite mixed with a diorite sill that phases into a complete porphyritic diorite. The diorite is chloritic altered. There appears to be more quartz in the diorite zone than in the previous Diamond Drill holes. There is a greater amount of phenocrysts that are more calcinitic than normal. This zone is between 183.49M to 236.83M. The diorite has blebs and veinlets of iron pyrite throughout. From 236.83M - 264.26M the core is a coarse to fine grained diorite with very pervasive chlorite alteration.

LOCATION AND ACCESS:

The Burbridge Lake property is situated in West Central B.C. at latitude 54° 43' N and longitude 125° 45' W. The main area of interest is located South of Burbridge Lake.

The property is accessible via Woodmere Road, which joins Highway 16 approximately 1.6km South of the Town of Telkwa, B.C. and thence up Woodmere Road 9.5km to Hutchinson Farm and beyond this point up Deception Lake Forestry Access Road for 11.3km to Burbridge Lake.

HISTORY:

The Burbridge Lake property was staked by Mel Chapman in 1969. In 1983 the property was optained by Hudson Bay Oil and Gas, who carried out a program of geological mapping, a ground magnetic survey, geological soil sampling and 366M of Diamond Drilling in three (3) holes. The option agreement was terminated.

In 1974, Cities Service took an option on the property, and completed an I.P. and magnetometer survey and did 485M of Diamond Drilling in two (2) holes. This work failed to encounter any significant mineralization and the option was terminated.

In 1976, Asarco did a cursory examination of the structural and stratigraphic setting of the zone of mineralization. In the reviewing of all available data, it suggested a dip of the South-West, with the host diorite intrusion occurring as a sill within the volcanic succession. With Hudson Bay Oil and Gas and Cities Services Drill program set up that all of the Diamond Drill holes were enclined between 45° and 55° to the South. The holes were close to being parallel to, rather than crosscutting the zone of mineralization. On this basis, an option agreement was drawn up. In 1977 Asarco laid out a program of six (6) Diamond Drill holes. The results confirmed that the diorite is a sill-like body dipping to the Southwest. The option was terminated.

In 1980, D. Groot Logging Ltd. of Smithers, B.C. reviewed all the pertinent data from previous work done on the property and came to the conclusion that there could be a possibility of increased grades of copper and molybdenum in the stockwork to the West of the Drill holes that Asarco drilled. A deal was

made to get control of the property and then work commenced. Four (4) Diamond Drill holes were drilled. The first (3) to see if the diorite sill increased in mineralization to the West and also the Westerly extension of the sill. results showed that the mineralization did not increase in 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 hole was drilled on the Eastern part of the property to try and pick up some small copper, silver veins at depth. This Diamond Drill hole did not pick up any vein extensions at depth. A detailed soil sample program was done over four (4) areas of the property. Some hand trenching and cat trenching was also done over a few areas of the property. In 1981 the company then decided to Diamond Drill in the areas where the previous year soil sample program came up with some high readings in two different zones. Five (5) Diamond Drill holes with a total of 491.2M were drilled. The first three (3) Diamond Drill holes were drilled on the Southwest part of the property on the strength of the high soil sample reading 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 center part of the property Southeast of Burbridge Lake. These were also drilled in this area because of the high soil sample readings that were obtained in the 1980 field work. No significant mineralization was encountered in either of these holes.

In 1991, D. Groot Logging Ltd. decided to drill three (3) Diamond Drill holes to the South of Asarco's 77-6 Diamond Drill hole to explore the possibility of more mineralization occurring at depth as the diorite sill dips into the ground to the South at a dip of 20° to 40° . Three (3) holes were drilled for a total distance of 670.87M.

REGIONAL GEOLOGICAL 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 schist metamorphism. With the predominant Northeast 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 of the Telkwa formation. Their rocks have been regionally metamorphosed to the green schist facies and are stongly foliated in places, with the foliation occuring 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 if 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 suggest that all of the rocks in the immediate area are of the same age. i.e. Jurassic.

REFERENCES:

A.D.	Schmidt, P. Eng., Hudson Bay Oil and Gas Co. Ltd.	1973
D.A.	Silversides, Geologist, City Service Minerals Corp.	1974
D.C.	MacIntyre, Geologist, Asarco Exploration Co.	1977
D.C.	Plecash, Geologist, D. Groot Logging Ltd.	1980
D.C.	Plecash, Geologist, D. Groot Logging Ltd.	1981

1991 DIAMOND DRILL PROGRAM:

Between April 1, 1991 and May 1, 1991, 670.87M of Diamond Drilling (B.Q. Wireline) was completed on the Burbridge Lake property.

D.D.H. 91-1 this hole was collared 60.96M South of Asarco's D.D.H. 77-6. The collar of the Diamond Drill hole is at 1251.5M, which is 35.3M above D.D.H. 77-6 at an elevation of 1251.5M and a dip of -90°. The purpose of this hole was to check out the diorite sill to the South of any other work and also to check the sill at depth. From 3.66M to 15.85M the hole went through a series of light to dark grey andesites with some quartz calcite stringers and slightly chloritic altered. From 15.85M to 19.20M the andesite is dark grey to black with quartz calcite stringers. 19.20M to 42.82M the core is light to dark grey andesites slightly chloritic altered. The andesites from 22.85m through to 34.14M have small zones of a purple hue. There are blebs and stringers of quartz calcite throughout. Some gypsum starting to show up at 24.38M. From 42.82M to 48.46M the core looks like a brecciated andesite mixed with quartz and quartz calcite. A little copper and molybdenum visible. At 48.46M to 51.51M the core is a dark green chloritic altered argilliceous andesite with bands and blebs of quartz and quartz calcite with some iron pyrite. From 51.51M to 87.17M the core is a porphyry diorite with some iron pyrites which is pervasively koalinized chloritic altered. The core is broken and moderately siliceous. 87.17M to 109.12M the core is a porphyry diorite with the phenocrysts up to 13MM in size. There is alot of recementing with quartz calcite on the fractures, there is a pervasive chlorite alteration with some epidote appearing. Iron pyrites throughout the core. 109.12M to 127.80M the core is a fine grained diorite sill mixed with a porphyry diorite, and pervasive chlorite alteration with some epidote. From 127.80M to 132.28M the core is a black diabase dyke that appears to be fairly limy, at 132.28M to 183.4M the core is a porphry diorite with a pervasive chloritic alteration. Larger and more kaolinized phenocrysts between 142.04M to 144.48M, this area has a greater chloritic alteration than normal. Very siliceous between 132.28M and 142.04M. There is a limy diabase dyke between 149.11M to 151.12M. Some epidote in the last 6M of this zone. Iron pyrites are shown throughout the diorite zones. From 183.49M to 200.26M (end of hole) the core is a coarse

to fine very pervasive chloritic altered diorite with quartz calcite stringers up to 5CM in width scattered throughout. Visible chalcopyrite and molybdenum in core and quartz calcite stringers very effervesent when sprayed with HCL.

D.D.H. 91-2 was collared 48.76M South and then 43.59M East of D.D.H. 91-1, the hole was drilled at this location to look a little deeper in depth with an also lateral view of the diorite zone. It was drilled at an elevation of 1268.3M with a dip of -90° . From 4.21M to 39.62M the core is a dark to light grey andesite pervasively chloritic altered with some argillites. There are some blebs and stringers of quartz calcite with minor amounts of epidote. 39.62M to 52.73M the core is a dark grey to black andesite with quartz calcite stringers in it and slightly chloritic altered. From 52.73M to 64.65M there is light andesites pervasively chloritic altered with quartz blebs and stringers throughout. Foliated at 25° to 30° to core axis. Some purple andesite between 57.7M to 58.2M. At 64.65M to 133.05M the core is a mixture of a porphyry diorite with a diorite sill with up to 20% iron pyrites. The core is moderately siliceous. From 133.05M to 185.02M the core is a porphyry diorite with about 10% to 15% iron pyrites, pervasive chloritic altered and a zone between 133.05M to 163.07M that has phenocrysts up to 13MM in size and broken core with calcite on fracture and some vug holes. From 181.36M to 182.88M 30% iron pyrites. 185.02M to 206.35M (end of hole) the core is a coarse to light grained very pervasive chloritic altered diorite with quartz calcite stringers and blebs up to 13MM in size. Some molybdenum visible on fractures and chalcopyrite along quartz stringers.

D.D.H. 91-3 was collared 91.4M due South of D.D.H. 91-1 at an elevation of 1280.2M and drilled at a -90° dip. From 4.82M to 49.47M the hole was in a light to dark grey andesite, pervasive chloritic argillaceous altered Foliated at 35° to core axis. The core is very siliceous with quartz stringers up to 0.36M thick. From 32.39M to 44.81M there is a moderate amount of purple andesites. Some faulting in the hole with a large fault zone highly altered at 49.07M to 49.47M. At 49.47M to 100.1M the core is andesite a dark grey to dark greenwfor 17M then becomes alot lighter in color due to a lesser amount of alteration. Some purple andesite and quartz stringers in later part of core. From 100.1M to 105.95M the core is a layered andesite pervasive chloritic argillaceous altered that is foliated at 40° to core axis.

Some small stringers of diorite with 5% to 10% iron pyrite. 105.95M to 108.11M is a porphyritic diorite mixed with andesites and the total zone chloritic altered. 108.11M to 171.88M the core is a porphyry diorite pervasive chloritic altered with intrusions of iron pyrites that double in volume from 151.79M and on. Quartz stringers appearing up to 10.2CM in size and gypsum starting to appear at 137.47M. From 160.94M to 171.88M the fracture fillings and quartz calcite have a yellowish orange hue. From 183.49M to 236.83M the core is a mixture of a diorite sill with a porphyritic diorite pervasive chlorite altered. At 227.60M to 231.41M there is a diabase dyke that is fairly limy. From 183.49M to 236.83M the core is porphyry diorite has phenocrysts of quartz calcite up to 13MM in size with much kaolinized alteration. The core is very broken with alot of recementing of calcite on the fractures. From 236.83M to 264.26M the core is a coarse to light grained porphyritic diorite. Very pervasive chloritic altered. There are quartz stringers up to 1.9CM in size. Some visible copper and molybdenum along with iron pyrites adjacent to the quartz, these stringers are limy when sprayed with a solution of HCL. 264.26M is the end of the hole.

CONCULSION:

The Diamond Drilling (3 Holes) completed in April 1991, showed that the diorite is still in place at depth and that as you go deeper, the rock formations are more defined at the contacts. The appearance of iron pyrites in the core seems to increase at depth. The results also showed that the diorite stock in an area of fracturing and veining with clay-chloritic quartz-calcite alteration which contains low amounts of Cu and Mo that are seldom visible to the naked eye. A further Diamond Drill program should be concentrated on checking the magnetic anomolies that were found by Hudson Bay Oil and Gas Co. Ltd. in 1973 and forget the soil sample anomolies as they did not indicate any commercial ore zones, having been checked out by previous Diamond Drill programs.

D.C. PLECASH

GEOLOGIST

STATEMENT OF QUALIFICATIONS:

- I, Donald C. Plecash, of 3869-12th Avenue, Box 2694, Smithers, B.C. Certify than:
- 1) I attended Queens University, Kingston, Ontario from September 1947 to May 1950.
- I was employed by Yale Lead and Zinc Mines of Ainsworth, B.C. as a Mine Surveyor, Junior Engineer and Junior Geologist from 1950 to 1956.
- 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 and Mine and Exploration Geologist from 1957 to 1969.
- I was employed by Norex Uranium of 605-535 Thurlow St., Vancouver B.C. as Exploration Manager and Geologist from June 1969 to October 1969.
- 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 November 1969 to September 1973.
- 7) I was employed from September 1973 to April 1980 in the Sales Industry.
- 8) I was employed by D. Groot Logging Ltd. of Box 520, Smithers, B.C. as a Geologist from May 1980 to June 1984.
- 9) I have been self-employed in the Mining Industry as Engineering and Geology Services where I have worked from Exploration to Mine Production.

D.C. PLECASH

BURBRIDGE LAKE 1991 COST STATEMENT

Diamond Drilling and Road Clearing
Northern Mountain Helicopters Inc.
D.C. Plecash - Salary and Fringe Benefits

\$ 51,247.06 452.86 6,225.00

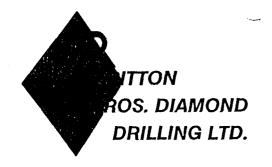
\$ 57,924.92

Diamond Drill Core Stored at Britton Bros. Drilling Smithers Airport

D.C. PLECASH
GEOLOGIST

CLAIM LIST:

NAME	RECORD NO.	DATE RECORDED
Summit #1	59464	
Summit #2	59465	
Summit #3	112279	
Summit #4	112280	
Summit #7	112283	
Summit #8	112284	
H.B. #4	126754	
н.в. #6	126756	,
н.в. #21	126287	
H.B. #22	126288	
H.B. #23	126289	
H.B. #1 FRA.	126290	
H.B. #2 FRA.	126291	
H.B. #3 FRA.	126292	
H.B. #4 FRA.	126293	
MAY (9 Units)	2792	May 16, 1980
JUNE #1 (12 Units)	2833	June 23, 1980
JUNE #2 (20 Units)	2834	June 23, 1980
JUNE #3 (20 Units)	2835	June 23, 1980



P.O. Box 32 Smithers, B.C. V0J 2N0

Phone: (604) 847-3636

Fax: (604) 847-9200

INVOICE TO:

INVOICE #019

April 20, 1991

D. Groot Logging Ltd., Box Smithers, B.C., VOJ 2NO

For diamond drilling footage and related services provided on the Burbidge Lake Project for the period of April 10-20, 1991, as per contract:

DDH #:

INVOICE	TOTAL				\$51,247.06
G.S.T.	(Registration #R123665200		3,352.61		
Sub-tot	al				\$47,894.45
स	coring (12' to 867')	855.	6	19.20	16,416.00
11	cat hours	11	6	80.50	885.50
91-3	overburden (0' to 12')	12	9	19.20	230.40
11	coring (12' to 677')	665	6	19.20	12,768.00
11	overburden (0' to 12')	12	6	19.20	230.40
91-2	cat hours	6.5	6	80.50	523.50
Ħ	coring (12' to 657')	645.	Ġ	19.20	12,384.00
11	overburden (0' to 12')	12.	6	19.20	230.40
91-1	cat hours	52.5	6	\$80.50	\$_4,226.25
DDII #.					

22368.

APR 2 3 1991

OK. Sheert

Northern Mountain Helicopters Inc.

Main Office: P.O. Box 368, Prince George, B.C. V2L 4S2

Telephone

(604)963-9622

Fax

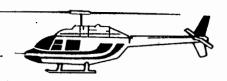
(604)963-9015



D. GROOT LOGGING

P.O. BOX 520 SMITHERS, B.C.

VOJ 2NO



INVOICE NO:

11783

INVOICE DATE: Mar 31 91

CUSTOMER NO:

20630

REFERENCE NO:

DATE	REF .		DESCRIPTION	UNITS	RATE	AMOUNT
03/28/91	65 705	NMK	PARADISE LAKE FUEL - LITRES OIL - HOURS	.60 68.40 .60	635.00 .60 2.00	381.00 41.04 1.20
			TAXABLE AMOUNT			423.24
			7% G.S.T. #R120	966 63 5		29.62

TOTAL AMOUNT OWING:

\$452.86

D.GROOT LOGGING LTD.

P.O. BOX 520, SMITHERS, B.C. V0J 2N0 PHONE: 847-4201

D.C. PLECASH JAVARY 6000.00 Mos
FRINCE BENEFITS 225.00

TOTAL 6225.00 Mos

PROPERTY BURBRIDGE	LAKE		HOLE NO. 91-1						
Latitude	Elevation 1251.5M	Bearing	Depth 200.26M Started APRIL 14/91 Completed APRIL 16/91						
Departure	Section	Dip -90°	Drilled By BRITTON BROS. Logged By D.C. PLECASH						

D		Sample	ı		Г	 		A = = ===	A		
Depth Feet	Formation	No.	From	To	Width			Assay	S	T	
0-3.66	Overburden										
3.66- 6.55	Light Siliceous Andesite Tuffs Slight Alteration										
6.55- 8.23	Mixed Light to Dark Grey Siliceous Andesite				<u> </u>		ļ				
	Tuffs with 6mm Quartz Stringers- 1.5 Core Loss										
8.23- 12.80	Dark to Light Grey Andesite Tuffs with Slight Chloritic		·								
	Alteration - 0.6M Core Loss										
12.80- 15.85	Light Grey Andesite Tuffs, Slight Chloritic Alteration										
	14.02 to 14.33 Core Loss - 90% Alteration										
15.85- 19.20	Dark Grey to Black Andesite with Quartz Calcite										
	Stringers.										
19.20- 20.12	Light Grey Andesite with Slight Chloritic Alteration										
20-12- 28.35	Dark Grey Andesite with Slight Chloritic Alteration					······································					
	Some Quartz Banding at 21.95M with 30% Alteration					·					
	15 CM of Purple Andesite at 22.86M and 24.69M										
	20 CM of Gypsumand Andesite Mixed at 24.38M					-					
	Bands of Gypsum from 26.98 to 27.43M.										

PROPERTY BURBRIDGE LAKE				HOLE NO. 91-1							
Latitude		Elevation 1251.5M	Bearing	Depth 20	0.26M	Started	April 14/91	Completed	April 16/91		
Departure	•	Section	Dip -90°	Drilled E	y BRIT	TON BROS	· Logged By	D.C. PLE	CASH		

Depth	T	Sample				1		Assay	s		
Feet	Formation	No.	From	To	Width						
28.35- 34.14	Purple Andesite with a Few Quartz Calcite Stringers										
34.14- 37.03	Banded Light Grey Andesite Slight Chloritic Alteration			· 				<u> </u>			<u> </u>
	36.27M to 36.88M Fine Grained Bed of Medium Grey									-	ļ
	Chloritic Altered Andesite		·								
37.03- 42.82	Bands and Blebs of Quartz Mixed with Chloritic						<u> </u>				ļ
	Altered Andesite. FE S Scattered throughtout.										
42.82- 48.46	Brecciated Andesite with 6MM Size of Quartz Calcite				,						<u>.</u>
	Bleb in Matrix. Only 15CM Core from 44.81M to 47.85M		·								
	Ground Core. Little Copper and Molybdenum Showing.										
48.46- 51.51	Dark Green Argilliceous Andesite with Bands and										
	Blebs of Quartz and some FE S.										
51.51- 87.17	Porphyritic Diorite with FE S Throughout Pervasive										
	Kaolin Chloritic Alteration	·									
	15MM Fault Gouge a 60.66M										
	Broken Core										
	73.46M to 74.52M Ground Mass more Siliceous with										

•	PROPERTY BURBRIDGE LAK	E			HOLE NO	91-1
	Latitude	Elevation 1251.5	Bearing	Depth 200.26M	Started April	L 14/91 Completed April 16/9
	Departure	Section	Dip90°	Drilled By BRI	TTON BROS. Lo	ogged By D.C. PLECASH

Depth		Sample	<u></u>			Γ	 Assay	'S.	 ì
Feet	Formation	No.	From	To	Width				
	More Quartz and 25% FE S in Bands and Blebs.								
87.17- 109.12	Porphyritic Diorite with Phenocrysts up to 13MM in			· ·					
	Size of Quartz Calcite. Calcite filled Fractures						<u> </u>		
	with Some Recementing. 85.50M to 87.50M 0.5M of								
	Core Loss. More Clearer Pieces of Quartz in Core							<u> </u>	
	Pervasive Chlorite Alteration with Minor Epidote.								
	106.68M to 108.81M 1M of Core Loss.								
109.12 127.80	Fine Grain Diorite Sill Mixed with a Porphyritic					•			
	Diorite as the Same as Previous Core. Pervasive						L		
	Chloritic Alteration with Some Epidote.						 		
	124.06M to 127.10M - 1.6M Core Loss.								
127.80 132.28	Diabase Dyke-Very Effervesent with HCL-Limey								
132.28 142.04	Fine Grain Porphyritic Diorite. Diorite with Perva-								:
	sive Chloritic Alteration. Quartz and Iron Pyrite								٨.
	Throughout Core. Very Siliceous								
	133.20M to 134.72M 1.3M Core Loss								

PROPERTY BURBRIDGE LAK	Œ		HOLE NO.	91-1
Latitude	Elevation 1251.5M	Bearing	Depth 200.26M Started Ar	oril 14/91 Completed April 16/91
Departure	Section	Dip	Drilled By BRITTON BROS.	Logged By D.C. PLECASH

Depth		Sample	F	To	Width		Assay	`S		
Feet	Formation	No.	FTOM	10	width					
	136.25M to 139.30M 0.3M Core Loss							<u> </u>		
	139.30M to 142.34M 0.9M Core Loss									
142.04- 144.48	Porphyritic Diorite with very Pervasive Chlotic				1					
	Alteration that has Phenocrysts of Quartz Calcite and									
	Kaolin up to 1.3CM in Size.									
144.48- 167.58	· ·									
	scattered throughout.							Ŀ		<u> </u>
	149.11M to 151.12M Diabase Dyke					 <u> </u>	<u> </u>			<u> </u>
	157.89M to 6MM Stringer of Gypsom.									<u> </u>
167.58- 183.49										
	Pervasive Kaolin Chloritic Alteration with Phenocrysts									
	up to 6MM in size Epidote scattered throughout.		ł							
183.49- 200.26										
	very Pervasive Chlorite Alteration. Quartz Calcite									
	Stringers up to 5CM in Width. Scattered and Veins									
	of Iron Pyrites in Core.									

PROPER	TYBURBRIDGE	LAKE					HOLE	мо	91-1				
Latitud	e	Elevation 1251.5M	Bearing	ם	epth 2	00.26M	Start	ed_Ap	ril 14,	/91 C	omplet	ed Apr	<u>il 16/9</u> :
Departu	re	Section	Dip -90°	D	rilled	By BR	ITTON BI	ROS.	Logged	d By	D.C. P	LECASH	
Depth Feet		Formation		Sample No.	From	То	Width			Assay	s		
	Visible Molvbde	num and Chalcopyrite (Quartz Calcite										

Feet	Formation	No.	From	To	Width					
	Visible Molybdenum and Chalcopyrite Quartz Calcite									
	Stringers in Core is very Effervesent when Sprayed									
	with HCL Limey				,					
	200.26 END OF HOLE									
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•	PROPERTYBU	URBRIDGE LAKE	Ε.			HOLE NO	91-2		
	Latitude	Elev	vation 1268.3M	Bearing	Depth 206.35 M	Started Apr	il 16/91 c	ompleted April	17/91
	Departure	Sect	ion	Dip -90°	Drilled By BRIT	TON BROS.	Logged By	D.C. PLECASH	

Depth	• .		From	m .			Assay	8		
Feet	Formation	No.	rrom	То	Width					
0- 4.21	Overburden									
4.21- 23.84	Dark to Light Grey Andesite Pervasive Chloritic									
	Argillaceous Alteration. Foliated at 40° to Core Axis				<u> </u>					
	1CM Fault Zones at 9:14M and 10.97M. Darker Grey		·							
	and more Intensive Chloritic Aleration after 10.97M.					 			ļ	
	Some Quartz Blebs and Stringers throughout.									
23.84- 39.62	Light Grey Andesite with very Little Chloritic					 			<u> </u>	
	Alteration. Banded ground Mass with some Quartz									
	Blebs throughout. Slightly Epidotized. Foliation						<u> </u>			
	at 15 ^o -25 ^o to Core Axis. 34.14M to 35.66M has					 				
	a 1.22M Core Loss. Fault Zone Highly Altered. The									
	Ground Core in the Fault Zone is Mostly Quartz.					 				
	36.88M has a 10.16CM Quartz Band.			· · · · · · · · · · · · · · · · · · ·		 				
	41.00M Has 12.7CM Band of Quartz and Andesite.				.c.					
39.62- 52.73	Dark Grey to Black Andesite Pervasive Chloritic					 				
	Alteration. 10CM Fault Zone at 41.76M									

ROPER	TY_	BURBRINGE LAKE	4			HOLE	NO	91-2				
lat ion		Plevation 1208.39 Carrier,		Depth 20	06.35M	_ Start	ed Ap	ril 16/9	1 Con	pletec	i Apri	1 17/91
		Secretary Secretary			By_BI	RITTON E	ROS.	Logged	By D.	C. PLE	CASH	
Depth	ł,	Formation	Sompl	e From	To	Width			ssays			
	48	M to -8. 7M 0.64M tore Louis Facilit Sone				ļ						
,	Ligi	tz Blebs throughou ated at 25° o 20°	- F									
A STORE STATE OF THE PERSONS ASSESSMENT	:	TO BEOS GITOGRAM		·								
Standard Standard							_					
71.51-	-13M	Granes Thanks Sill. Chloridge Address 103	ģ	·		÷						
**************************************	74° 12	hyritic Diorite with FE S Through 1, 1981									*	
O. a. U. 2)	in Chloritic Alteration mixed					·					u
	1	rite Sill Fine Grained with pervasive Chiquit?										
90.53-	Alte	eration 2 1 Pyrite.	1		· · · · · · · · · · · · · · · · · · ·					 - -		
		t Diorite ith Very Little Chloritic		5		·					<u> </u>	

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PROPER	TYBURBRIDGE	LAKE					HOLE	NO.	91-2					
Latitud	e	Elevation 1268.3M	D D	epth_2	206.35M	Start	ed_A	oril 16/	91 0	Comple	ted Apr	il 17/	91	
Departu	re	Section	Dip -90°	D	rilled	By BR	ITTON BI	ROS.	Logged	Ву	D.C.	PLECASI	<u> </u>	
Depth Feet		Formation		Sample No.	From	To	Width		<u> </u>	Assay	78	I]
	Brownish Red H	lue Around the Quartz												

Depth		Sample	Fran	To	Width		Assay	3	
Feet	Formation	No.	FFOM	10	Widen		-		
	Brownish Red Hue Around the Quartz				<u> </u>	 ļ	<u> </u>		
	Blebs and Veinlets (Hemitite Stain)						<u> </u>		
101.19 133.05					<u> </u>		<u> </u>		
	FE S throughout. Fairly Siliceous: Good Core Recovery		-		1				
133.05 163.07									
	with Phenocrysts up to 13MM in Size and Kaolinized.								
	Probably 10% Iron Pyrite.								
	145.9M to 30CM Quartz with 30CM Core Loss					 <u> </u>			
	152.40M to 153.2 Much Calcite and Vug Holes								
163.07 185.02									
	Porphyritic Diorite that has Phenocrysts up to 13MM	<u> </u>							
	in Size and Pervasive Chloritic Alteration 10%								
	Iron Pyrites. 173.74M to 174.96M Visible CU FE			<u> </u>					
	181.36M to 182.88 30% Iron Pyrite					 			
185.02 206.35	Coarse to Light Grained Porphritic Diorite with	a.				 			
	very Pervasive Chloritic Alteration Mixed with a								

PROPERTY_	BURBRIDGE	LAKE		HOLE NO. 91-2
Latitude	·	Elevation 1268.3M	Bearing	Depth 206.35M Started April 16/91 Completed April 17/9
Departure	•	Section	Dip -90°	Drilled By BRITTON BROS. Logged By D.C. PLECASH
Doneb			ica	m=1a/

Depth		Sample	From	To	Width			Assay	3		
Feet	3014488011	No.		-	-	 -	-			 	-
	Porphritic Diorite that has Kaolinized Phenocrysts up				<u> </u>			 	ļ		
	to 13MM in Size From 190.50M Abundant Gypsum on			<u> </u>							
	fractures.										
	199.65M to 206.35M Some Molybdenum on Fractures										
	185.02M to 206.35M Little Copper Visible along										
	with Quartz Stringers.										
	206.35M END OF HOLE	·	٠								
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PROPERTY BURBRIDGE	LAKE			HOLE NO	91-3	
Latitude	Elevation 1280.2M	Bearing	Depth 264.26M	Started Apr	il 17/91	Completed April 19/91
Departure	Section	Dip −90°	Drilled By BRIT	TON BROS.	Logged By	D.C. PLECASH

Depth		Sample	From	To	Width			Assay	\$		
Feet	Formation	No.	11011		W Lucii		 	 	ļ		
0- 4.82	Overburden										
4.82- 49.47	Light to Dark Grey Andesites with 5% - 10% Quartz										
	Calcite Stringers. Pervasive Chloritic Argillaceous	ļ					ļ	<u> </u>			<u> </u>
	Alteration. Foliated at 35° to Core Axis. Very									<u> </u>	
	Siliceous.									ļ	
	13.41M has 12.7CM Quartz with FE S Staining										
	14.33M has 12.7M Quartz			·							
	19.51M to 21.34M Lighter Green and Epidotized					· · ·					
	22.86M to 23.47M 0.46M Core Loss										
	23.32M 5CM Fault Gouge Broken Core										
	26.52M to 27.28M Crushed Oxidized Stained Core with										
	0.61M Core Loss	·				 					
	32.37M to 32.71 Purple Andesites										
	36.15M to 37.80M Purple Andesites Mixed with										
	Lighter Green Andesites										
	39.87M to 40.23M Quartz										(

PROPERTY	BURBRIDGE	LAKE			HOLE NO	91-3	
Latitude	•	Elevation 1280.2M	Bearing	Depth 264.26M	Started Apr	il 17/91	Completed April 19/91
Departure	•	Section	Dip -90°	Drilled By BRI	ITON BROS.	Logged By	D.C. PLECASH

Depth		Sample	From	To	Width	 	Assav	3		
Feet	Formation	No.	FIOM	10	WIGCH					
	40.54M to 44.81M Core has a purple Hue mixed with				<u> </u>	 ļ	<u> </u>	ļ		
	Light to Medium Green Andesites				<u> </u>					
	44.81M to 49.47M Core is Medium to Dark Greenish					 	<u> </u>			
	Grey Andesites (Chloritic Altered) with purple	,	-							
	Andesite in Minor Amounts Foliation at 47.55M is								<u> </u>	
	30° to Core Axis. 49.07M to 49.47M Broken Core									
	Highly Altered Fault Zone.				v					
49.47- 100.01	Dark Grey to Dark Green Foliated Andesite with Little									
	Purple Andesite scattered throughout. Pervasive									
	Chloritic Argillaceous Alteration less than Normal									
	Stringers of Quartz Calcite									
	66.29M to 69.50M Less Chloritic Alteration									
	and leached to a Light Sandy Green									
	77.66M to 81.53M Light Siliceous Andesite									
	80.62M to 80.93M Broken Oxidized Fault.									
	85.25M to 86.54M Large Shards of Light Green Andesite	s								

PROPERTY BURBRID	GE LAKE		HOLE NO. 91-3
Latitude	Elevation 1280.2M	Bearing	Depth 264.26M Started April 17/91 Completed April 19/91
Departure	Section	Dip	Drilled By BRITTON BROS. Logged By D.C. PLECASH

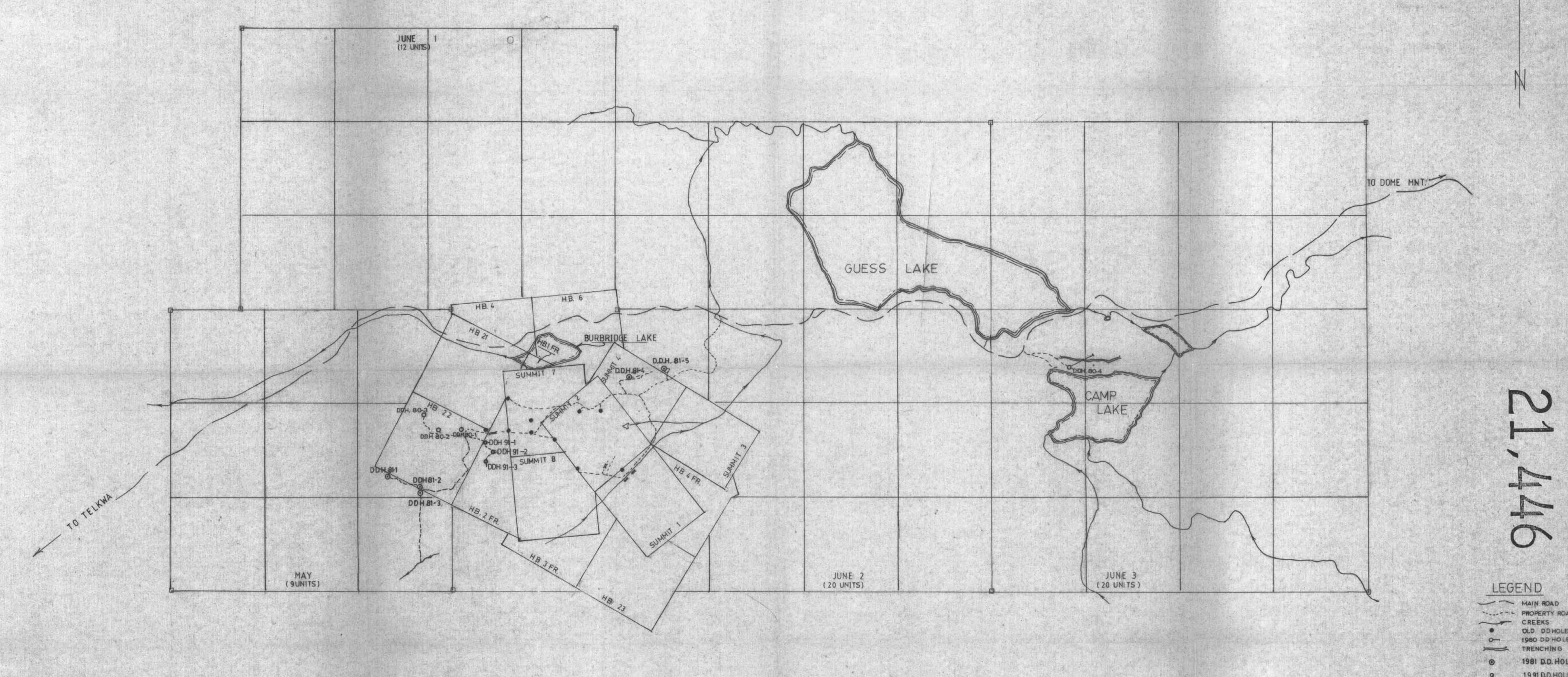
Depth		Sample	From	To	Width		 Assav	'S		
Feet	Formation	No.	FIOM	10	WIGCH					
	Mixed with Darker Purple Andesites									
	91.99M to 95.04M Quartz with Light Green Andesite									
100.01- 105.95	Layered Andesite Foliated at 40° to Core Axis									
	Pervasive Chloritic Argillaceous Alteration									
	102.05M to 105.95M has some Stringers of Diorite			-		·	 		<u> </u>	
	with 5% to 10% Iron Pyrites		1							
105.95- 108.11	Porphyritic Diorite mixed with Andesite pervasive					·				
	Chloritic Alteration		·							
108.11- 171.88	Porphyritic Diorite Pervasive Chloritic Alteration									
	with FE S and FE S Increasing to almost Double the						 			
	Amount Starting at 151.79M								ļ	
	119.79M - 7.6CM Quartz Stringer			_,					<u> </u>	
	125.58M 10.2CM of Quartz Stringer 127.01M 7.6CM									
	of Quartz Stringer 126.89M to 127.71M Increase									
	Chloritic Alteration From 124.97M to 171.88M									
	Core very Siliceous 137.47M. Gypsum showing up in									

PROPERTY	BURBRIDGE LA	KE		HOLE NO. 91-3							
Latitude		Elevation 1280.2M	Bearing	Depth 264.26M	Started April 17/91 Completed April 19/91						
Departure	•	Section	Dip	Drilled By BRI	TTON BROS. Logged By D.C. PLECASH						

Depth		Sample	From	To	Width	Ī ,	 Assay	'8		
Feet	Formation	No.	From	10	Width					
	Core 150.27M to 155.75M Core Broken up with More								<u> </u>	
	Quartz Calcite in it.			<u>.</u>						
	151.79M Mud Seam with 0.30M Core Loss.				<u> </u>			<u> </u>		
	From 160.94M to 171.88M the fractures and Quartz									
	Calcite has a Yellowish Orange Hue.									
171.88- 183.49	Diorite Sill mixed with Porphyritic Diorite Pervasive									
	Chloritic Alteration with FE S throughout.						 			
183.49- 236.83	Porphyritic Diorite with Phenocrysts of Quartz						 			
	Calcite up to 13MM in size. Pervasive Chloritic						 	<u> </u>		
	Kaolinized Alteration. FE S throughout									
	188.06M to 193.86M Broken Core 0.61M of Core Loss.									
	193.86M to 218.54M Very Broken Core. Alot of Calcite									
	on Fractures. Good recovery									
	218.54M to 221.59M Broken Core 1.83M Core Loss									
	227.60M to 231.41M Diabase Dyke									
	From 224.70M to 227.6M Before the Diabase Dyke and									

PROPERTYBU	JRBRIGE LAKE			HOLE NO. 91-3	
Latitude	Elevation 1280.2M	Bearing	Depth 264.26M	Started April 17/91	Completed April 19/91
Departure	Section	Dip -90°	Drilled By BRI	TTON BROS. Logged By	, D.C. PLECASH
Depth		Sam	ple From To	-wideh Asa	avs

Depth		Sample	From	To	Width		Assay	75		
Feet	Formation	No.	FIOM	10	widen					
	and from 231.41M to 236.83M after the Diabase Dyke									
	The Core has alot more than normal Mineral showing up									
236.83 264.26										
	Pervasive Chloritic Alteration. Quartz Calcite						<u> </u>			
	Stringers throughout and Veins and Blebs of FE S.							<u> </u>	<u> </u>	
	Quartz Calcite Stringers up to 1.91 CM in width						<u> </u>			
	in the Core that has a buff color and Fairly					 <u> </u>			<u> </u>	
	Effervesent (Limy) when Sprayed with HCL. Some					 				
	Visible Copper and Molybdenum in Core.						<u> </u>			
	264.26 END OF HOLE			· · · · · · · · · · · · · · · · · · ·						
				*						



LEGEND

PROPERTY ROADS

CREEKS
OLD DDHOLES

1980 DD HOLES

1981 D.D. HOLES 1991 D.D.HOLES

D. GROOT LOGGING LTD.

MINERALS EXPLORATIONS

SMITHERS. BRITISH COLUMBIA.

BURBRIDGE LAKE

&

ENVIRONS

SURFACE PLAN

SCALE: 0 800 DATE: 1991

DWN: D. C. PLECASH

REF. NO. NTS 93L/10

