An update on the December 2000 Report

Titled

"A Report on the "Inferred Mineral Resource"

at the Superior Graphite Property based

on the 1999 Diamond Drill Program

and prospecting during the year 2000"

Slocan Mining Division, B.C.

NTS 82F/12

NAD 83 UTM 445361E, 5506798N

Prepared for

Worldwide Graphite Producers Ltd.

By:

George G. Addie, P.Eng. (B.C.)
604 3rd St
Nelson, B.C.
Tel and Fax 250 352 2832
E-mail: ggaddie @ netidea.com

March 5, 2001

SUMMARY

In the report of December 15, 2000 it is mentioned that "A very large graphite mineral deposit exists on the **Worldwide Graphite Producers Ltd**. property." Considering the whole exposure of the graphite, including "Crystal Graphite Corp." it may be that a "World Class" graphite deposit exits.

The prospecting map made by Mr Rapski, project manager, clearly indicates the potential involve. (See Pocket 1)

In this report a new model based on single mineral horizons is used to calculate the "Inferred Mineral Resources".

In the Dec. 15, 2000 report the mining method in mind was that of an open pit. The approach in this paper is of benching and selective mining. By doing so the thick dykes (1.89m) are removed from the calculations thus increasing the grade.

The main zone has also been lengthened by adding the outcrop #35, which is clearly on strike.

The Main Zone has a calculated tonnage of 2.7 million tonnes or **2.97** tons with a grade of **2.08%** Graphite.

The Footwall Zone, because of the new assays for ddh SG-008, now has a preliminary estimate of 112 thousand tonnes or 123 thousand tons with a grade of 1.45% Graphite. There is not enough information to make a better calculation.

Using the published costs for the "Crystal Graphite Corp." property, written by Mr Ted Nunn, P.Eng., estimates for $1000US/tonne and $300US/tonne graphite have been made. With the $1000US value the cut-off grade is 2.5% Graphite. With $300US, the cut-off is 8% Graphite. Note: Some of the Asbury Carbons assays from the Main Zone have been above this value. These are assumed to be Leco assays. A flotation value by Asbury Carbons is necessary to confirm the LECO assays.

The exchange value of 0.64 for the Canadian dollar has been used for these calculations.

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Appendicies

INTRODUCTION

Terms of Reference:

A fax was received on Feb. 14, 2001 from Mr John Rapski, project manager for Worldwide Graphite Producers Ltd. to:

1. Update strip and histologs based on new assays sent Jan 1, 2001.
2. New tonnage calculations based on the above and an extension of the main zone based on sample 37 (to be corrected to NAD 83).
3. An analysis of the information from the "Black Crystal Graphite" property by TJ Nunn, P.Eng.

Property Location and Access:

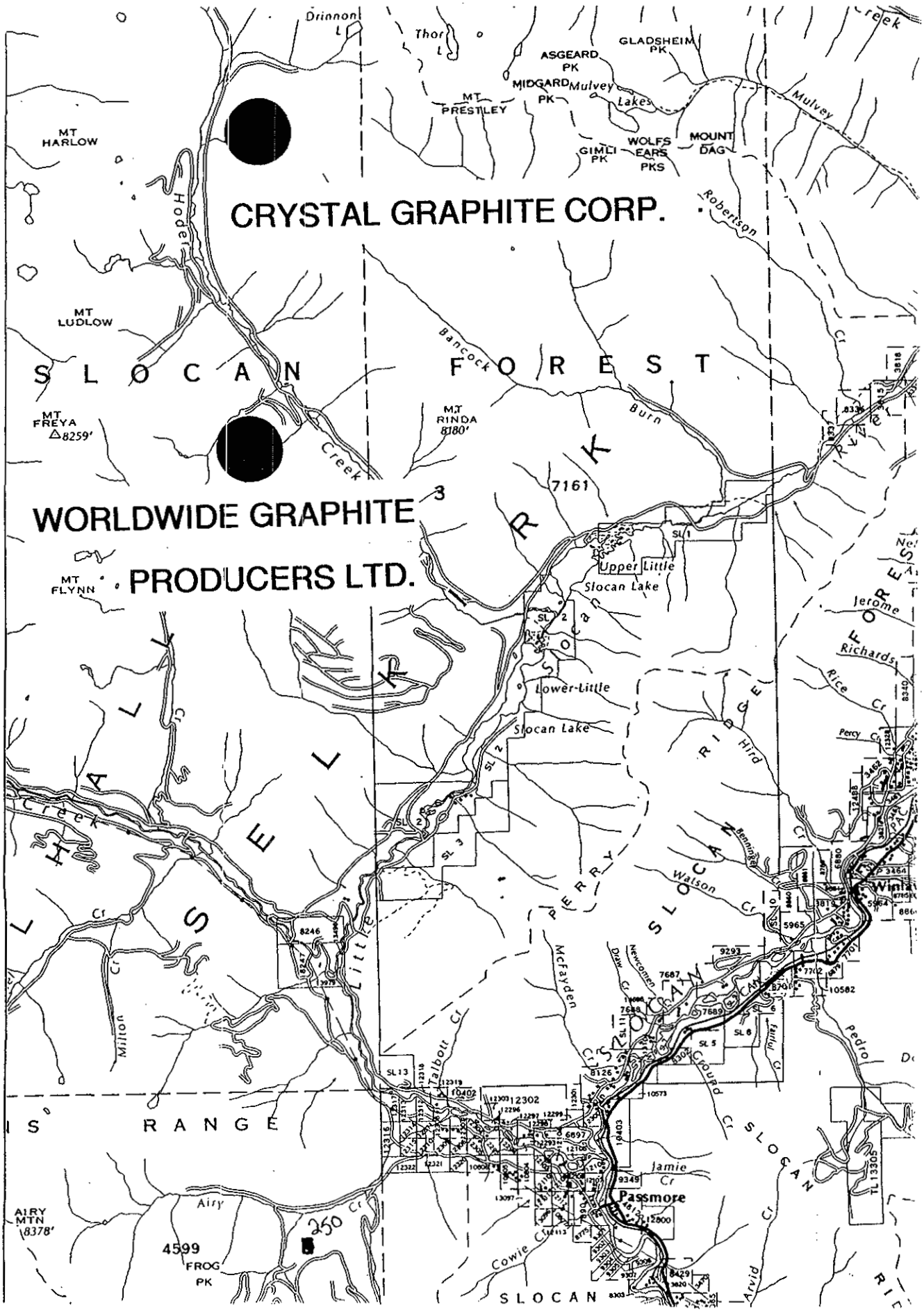
The "Superior" and new claims for Worldwide Graphite Producers Ltd is located thirty four kilometers from Passmore, B.C. (Ref: Map 1. Location Map) in southeastern B.C. (Ref: Map 2.Provincial Location Map). The Hoder Creek road is maintained by Slocan Forest Products and Crystal Graphite Corp. It is the principal access road into the Drinnon Pass area of the Valhalla Provincial park at the head of Hoder Creek.

The road up Freda (Also Freida and Frieda) Creek is a secondary Forestry road which has had low level deactivation.

Travel time from Nelson, B.C. to the Main Showing is two hours by vehicle, twenty minutes by helicopter.

Claim Status: (Ref: Map 3. Claim Map of Superior Property)

At present the claims are all in good standing. (Ref: Table 1 and Table 2)

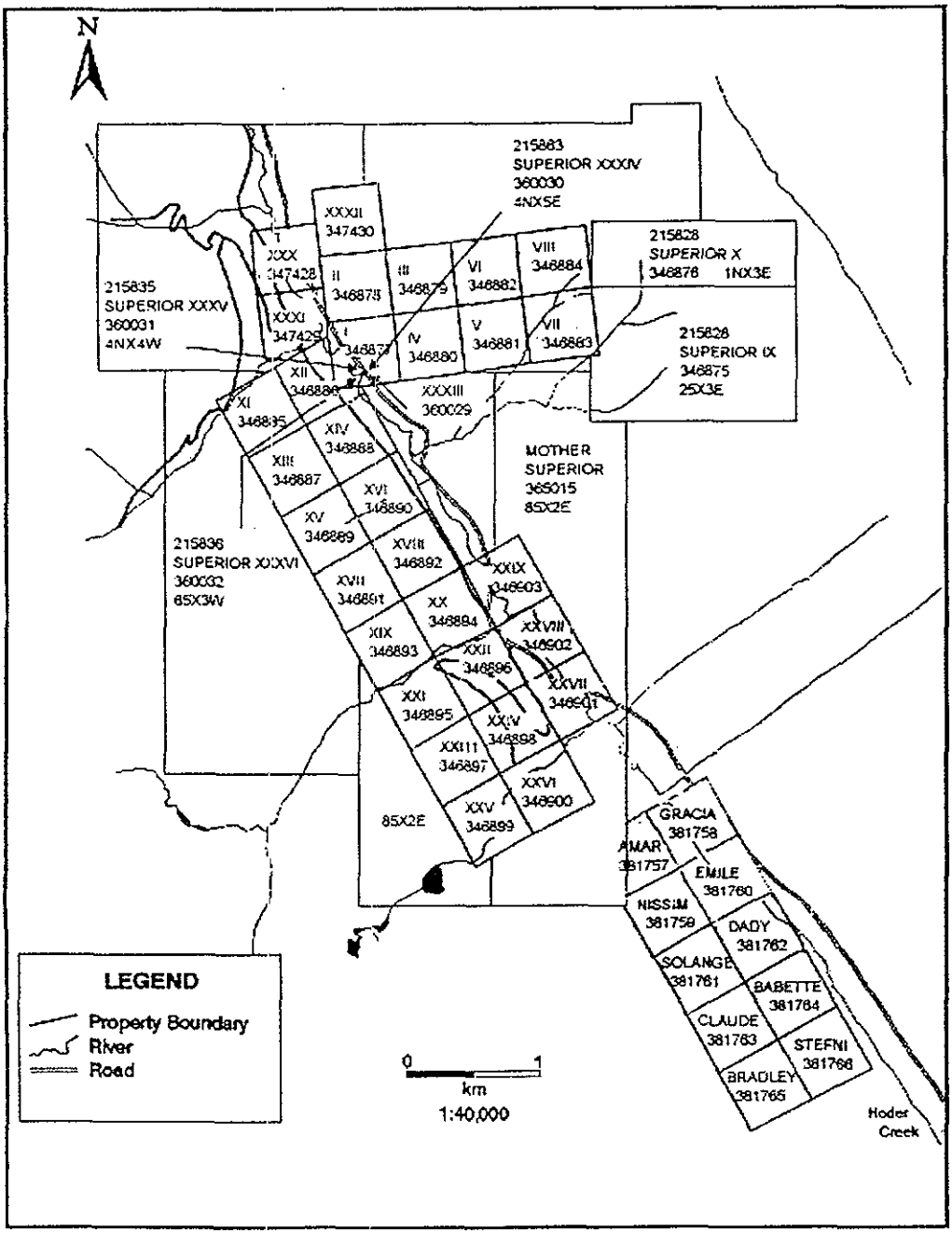


MAP 1 Location Map

Scale 1:125,000

Maps of Property

Claim Map of Superior Property :



Claim Map of Superior Property

Worldwide Graphite Producers Ltd.

Claim status:

At present the claims are all in good standing. (Ref: Table 1)

TABLE 1

Superior Graphite Property, Status, Sept 14, 2000		From Map Place		
Owner	Claim Name	Tenure No	Units	Expiry Date
Worldwide Graphite	SUPERIOR IX	346875	6	2007 0612
Producers Ltd	SUPERIOR X	346876	3	2009 0612
"	SUPERIOR I	346877	1	2007 0612
"	SUPERIOR II	346878	1	"
"	SUPERIOR III	346879	1	"
"	SUPERIOR IV	346880	1	"
"	SUPERIOR V	346881	1	"
"	SUPERIOR VI	346882	1	"
"	SUPERIOR VII	346883	1	"
"	SUPERIOR VIII	346884	1	"
"	SUPERIOR XI	346885	1	2007 0613
"	SUPERIOR XII	346886	1	"
"	SUPERIOR XIII	346887	1	"
"	SUPERIOR XIV	346888	1	"
"	SUPERIOR XV	346889	1	"
"	SUPERIOR XVI	346890	1	"
"	SUPERIOR XVII	346891	1	"
"	SUPERIOR XVIII	346892	1	"
"	SUPERIOR XIX	346893	1	2007 0614
"	SUPERIOR XX	346894	1	"
International Mineral	SUPERIOR XXI	346895	1	2008 0614
Resources Ltd	SUPERIOR XXII	346896	1	"
"	SUPERIOR XXIII	346897	1	"
"	SUPERIOR XXV	346898	1	"
Worldwide Graphite	SUPERIOR XXV1	346899	1	"
Producers Ltd	SUPERIOR XXVII	346900	1	2007 0614
"	SUPERIOR XXVII	346901	1	2007 0616
"	SUPERIOR XXVIII	346902	1	"
"	SUPERIOR XXIX	346903	1	"
"	SUPERIOR XXX	347428	1	2007 0701
"	SUPERIOR XXXI	347429	1	"
"	SUPERIOR XXXII	347430	1	"
"	SUPERIOR XXXIII	360029	16	2008 1021
"	SUPERIOR XXXIV	360030	20	2007 1021
"	SUPERIOR XXXV	360031	16	2007 1024
"	SUPERIOR XXXVI	360032	18	2008 1024
"	MOTHER SUPERIOR	365015	16	2008 0809

Superior Graphite Property. New Claims Yr. 2000

Owner	Claim name	Tenure Number	Units	Expiry Date
Worldwide	Amar	381757	1	2001 10 20
Graphite	Gracia	381758	1	2001 10 20
Producers Ltd.	Nissim	381759	1	2001 10 20
"	Emile	381760	1	2001 10 20
"	Solange	381761	1	2001 10 20
"	Dady	381762	1	2001 10 20
"	Claude	381763	1	2001 10 21
"	Babette	381764	1	2001 10 21
"	Bradley	381765	1	2001 10 22
"	Stefni	381766	1	2001 10 22

GEOLOGY

Regional: (Ref: Map 3 GSC Map 1176A)

The Superior Graphite deposit is within a large metamorphic complex called the "Valhalla Gneiss Complex". This has been described by Reesor (1965) in the Geological Survey of Canada Memoir 308. On his map 1176A a large zone of marble is shown crossing Hoder Creek and includes the Superior Graphite showings. The structural contours at Hoder Creek indicate a strike of N40E and dip of 21 degrees NW. This zone is probably a monocline with crenulations. This interpretation would account for both the Superior Graphite showings and those at the Crystal Graphite Corp. property.

Property: (Ref: Map 4 Geology Map of the diamond drillhole area.)

Three general zones of higher grade graphite mineralization within a large marble unit (mentioned above) have a general stike of N20W and dip of 25 degrees West. The actual zone projections are based on outcrop observations. Two faults have been calculated from diamond drill intersections and projected to surface. Other faults (my interpretation) are indicated from a VLF-Em 16 survey by Quantec Consulting Incorporated dated August 1998. (Not included in this report) These are vertical, and one of them is believed to be between ddh SG99-1 and ddh SG99-2. (See Sections 1 and 3 in this report.) This fault divides the mineral zones into a Hanging Wall Zone and a Footwall Zone. The amount of displacement on this fault is not known at this time.

The graphite mineralization is unique considering that some large 2mm euhedral flakes are present. They occupy a schistosity which is sub parallel to the bedding. It seems that the greater the schistosity the higher the grade. In some of the marbles there is random orientiation and although the crystals are large the grade of graphite is very low.

A green diopside has been identified from the Main Showing by Lakefield Research Ltd doing a SEM (Scanning Electron Microscope) analysis. Scapolite was also identified.

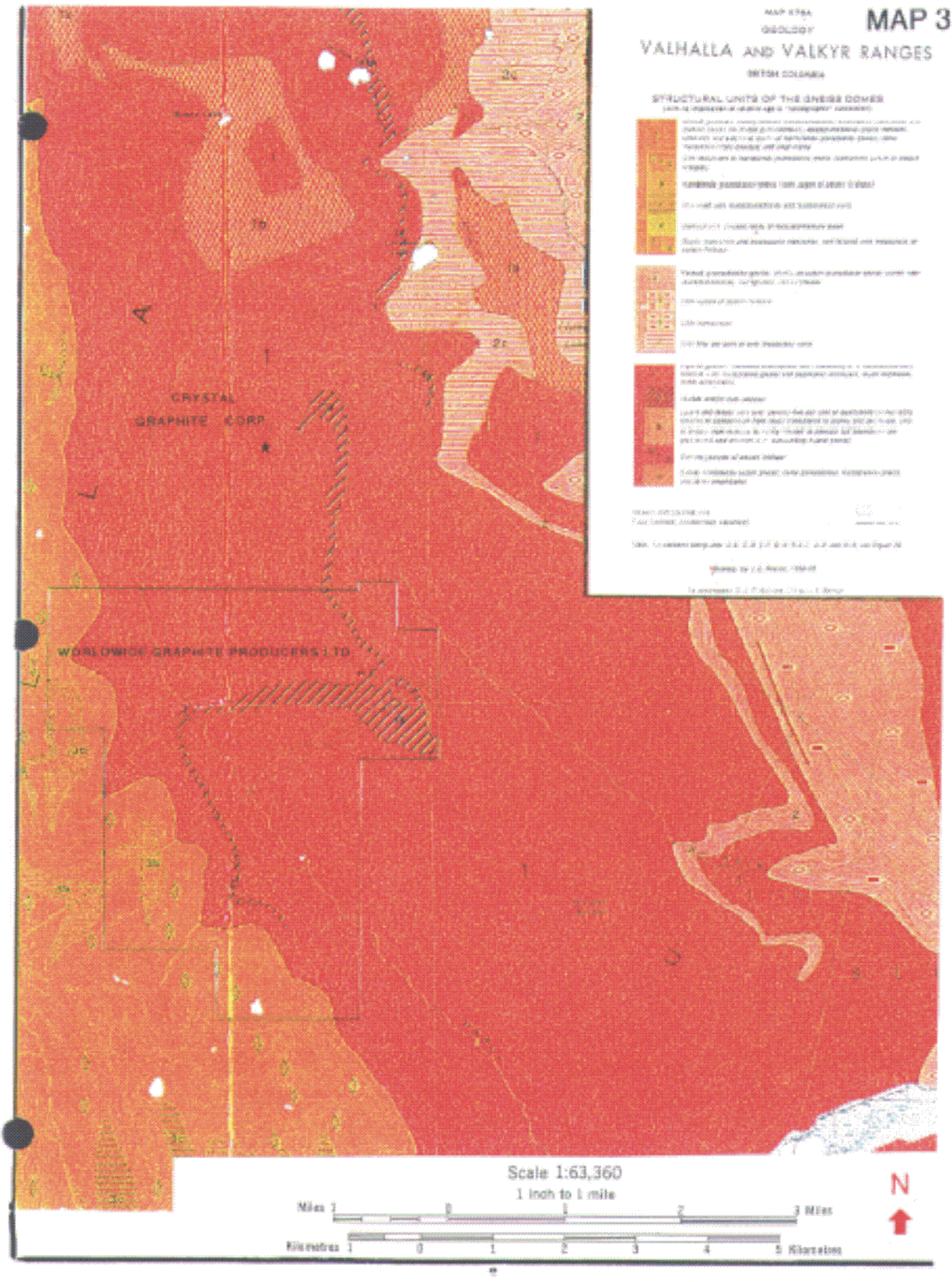
By dissolving the marble the diopside at the Main Showing is found to have inclusions of fine graphite. In some cases the graphite grade may be correlated with the amount of diopside present. Also in the residue muscovite is found. On top of Mt. Rinda (see Map 1) this mica is phlogophite. In the schists of samples 79 and 44 (See Sample location map in Pocket 1) biotite is present.

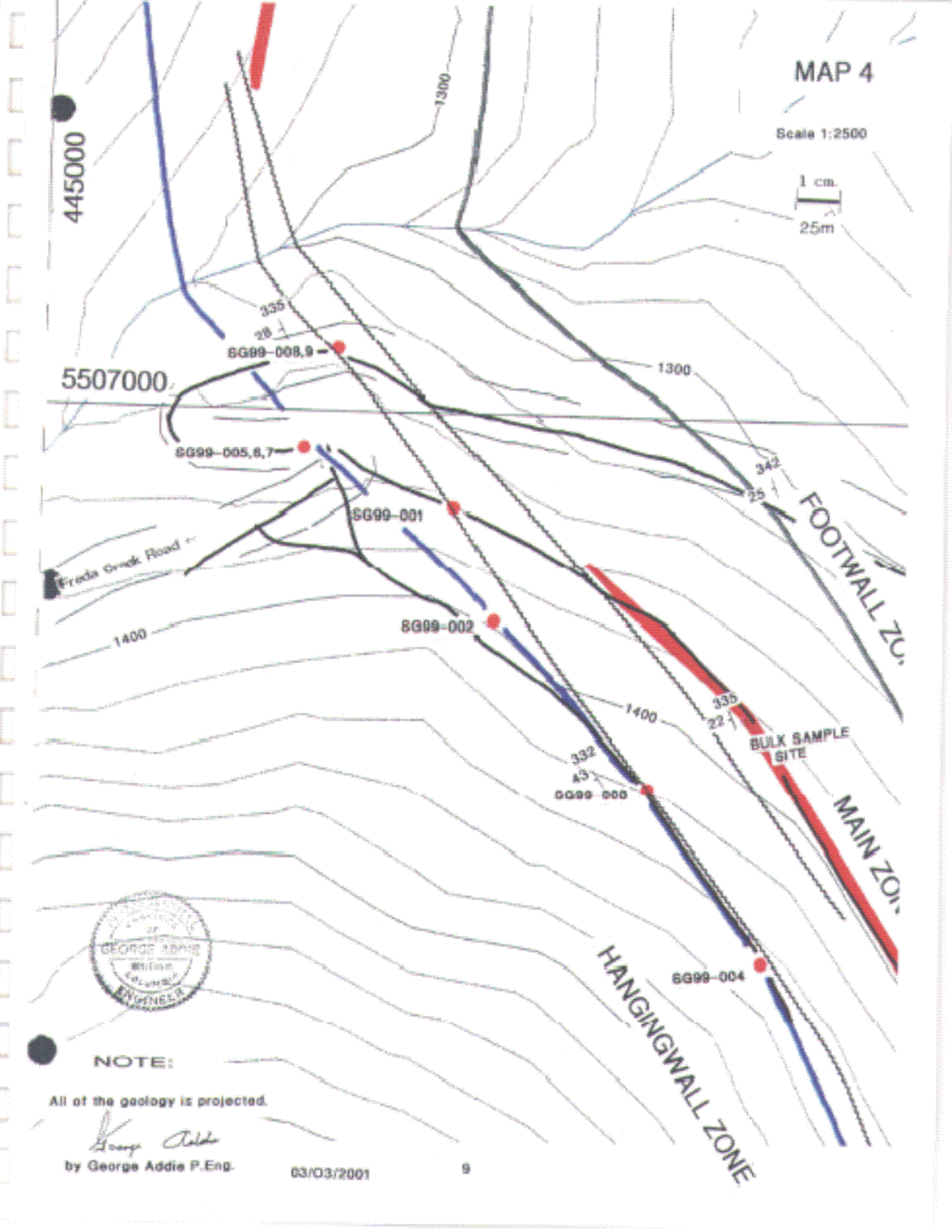
The sulphide in the above residue is a very magnetic pyrrhotite. The amount is extremely small. The crystals are subhedral and in chains. (Less than 1mm).

The same residue also has the euhedral graphite. Some of these crystals are stacked en-echelon giving the appearance of much larger grains. There is also more than one size of crystal suggesting multiple periods of mineralization.

The high grade zones therefore are probably dependent on structural geology. The axis of the flectures in the monocline mentioned under regional geology may be the key to finding high grade. (I.e. 5%+) Thus in mapping not only should the size of the graphite crystals be measured but also the amount of schistosity relative to other areas.

The above suggests another target area which is the biotite-graphite schists. One of these was identified in a self potential (SP) survey when readings went "off scale" (>200mv) at sample site 79. (See Section 4).


MAP 3
GEOLOGY
VALHALLA AND VALKYR RANGES
BRITISH COLUMBIA
STRUCTURAL UNITS OF THE OMINECA DOMES
CRYSTAL
GRAPHITE CORP.
WORLDWIDE GRAPHITE PRODUCERS LTD.
Scale 1:63,360
1 inch to 1 mile
Miles 1 0 1 2 3 Miles
Kilometres 1 0 1 2 3 4 5 Kilometres
N



NOTE:

All of the geology is projected.

by George Addie P.Eng.

03/03/2001

Sections:

Map 5 "Section Location Map"

The vertical longitudinal section was chosen to go through the bulk sample site, using the strike of that location. (See Map 3) The view is to the south west.

The cross section is also near the bulk sample site with a view to the north west.

Section 1. Vertical geological cross section. The view is +-150m. This causes the ddh (diamond drill holes) to appear above the horizon based on surface samples 35, 10 (the bulk sample site) and 26. (Ref Map 3)

Section 2. Vertical geological cross section. The view is +1150m. Again this causes ddh SG-004 to plot above the horizon based on the collar of ddh SG003, sample 10 (the bulk sample site) and sample 79 on the lower road. This sample is a Biotite-Graphite Schist at the footwall contact with the graphitic marble zone.

Section 3. Vertical histogram cross section showing the mineral zones used in the calculations of the "inferred mineral resource". There is a rake to these zones. This may be caused by schistosity, a change in bearing, or faulting. Note on the FW side the zones are horizontal indicating that they have the same bearing as at the bulk sample site. Or perhaps the schistosity is missing which would account for the lower grades. Too there could be rotation on the fault between ddhs 2 and 1.

Section 3. Vertical histogram cross section in the dip direction looking to the north west. Again because the view is +,-150m ddh 99-4 plots above the horizon based on the collar of ddh 99-3, sample 10 (the bulk sample site) and sample 79 on the lower road. This sample is a Biotite-Graphite Schist. An unexplored area exists above this outcrop.

Colour Code:

White - Collar and overburden

Black - Pegmatite

Red - Mineralization 1% or better Graphite

Yellow - Schist, Gneiss, Quartzite

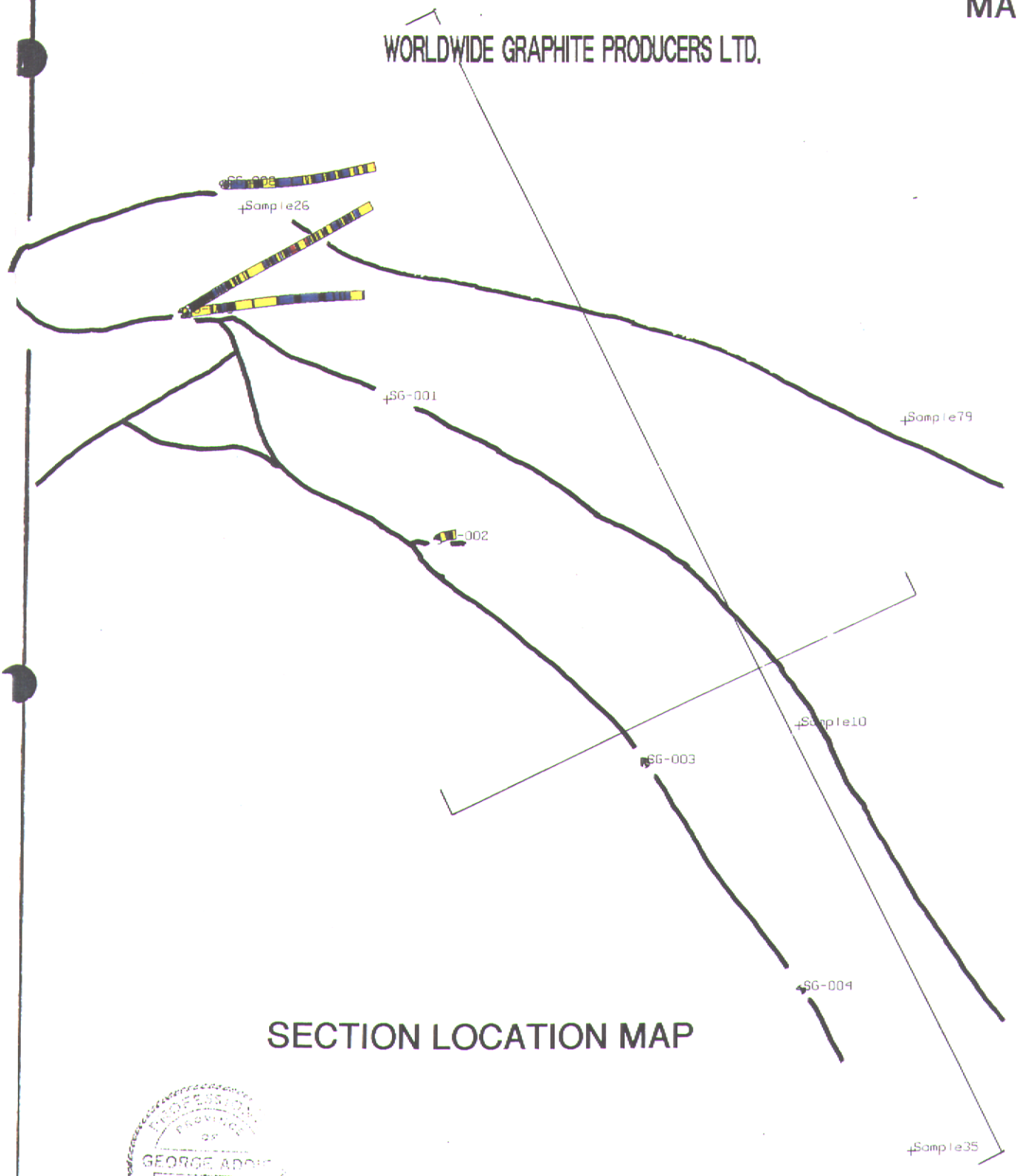
Green - Fault

Blue - Graphitic Marble or Marble

The Rockware program "Pro Sect" has been used because non-vertical diamond drill holes can be plotted. Too, measured outcrops can be plotted as pseudo drill holes allowing surface traces on the sections. A change in the viewing distance also allows filtering of the drill holes on the section.

MAP 5

WORLDWIDE GRAPHITE PRODUCERS LTD.



SECTION LOCATION MAP

PROFESSIONAL ENGINEER PROVINCE OF BRITISH COLUMBIA GEORGE ADDIE ENGINEER

1 cm.

25m

Scale 1:2500

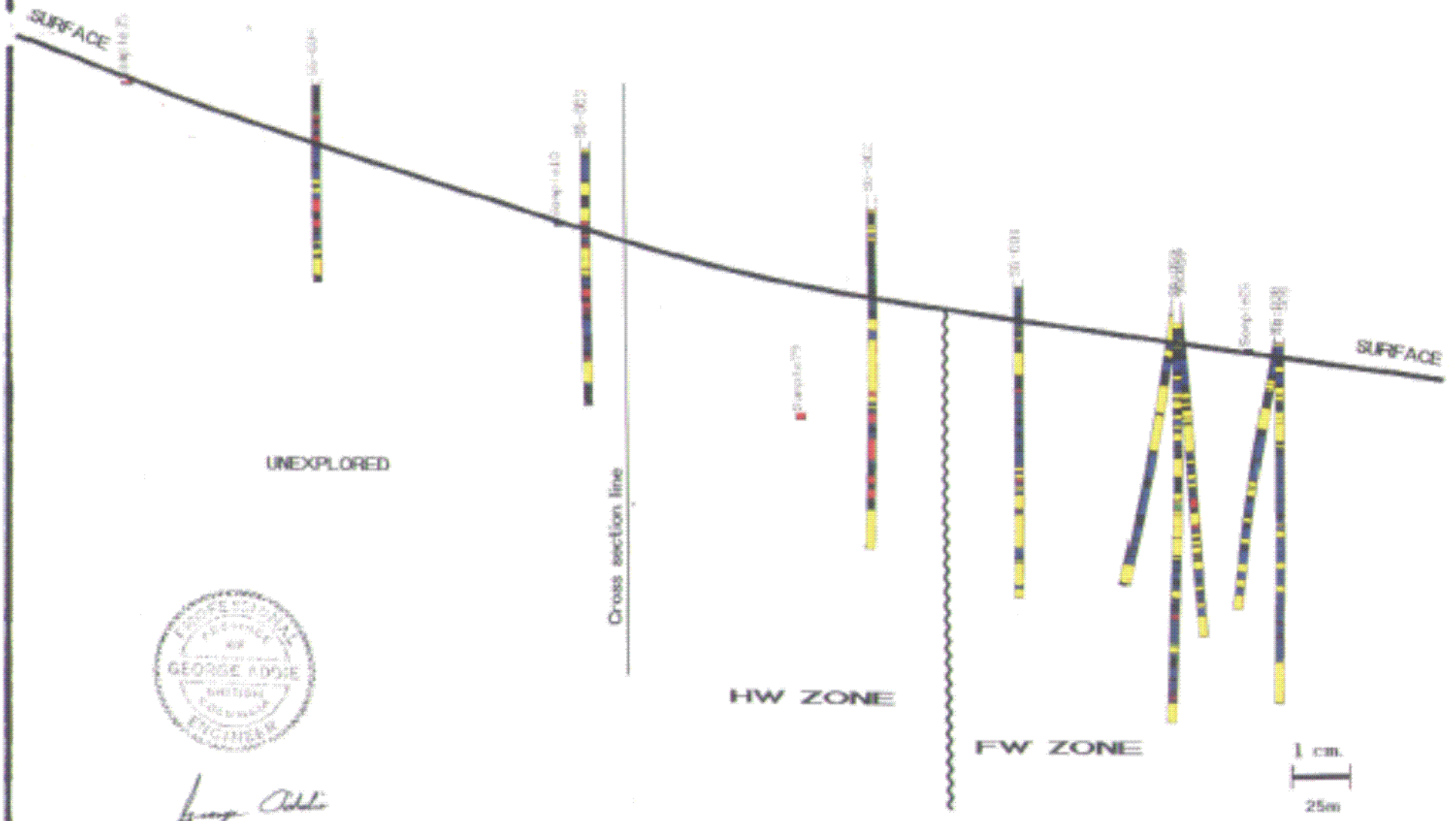
by George Addie P.Eng.

George Addie

03/03/2001

SECTION 1

WORLDWIDE GRAPHITE PRODUCERS LTD.



PROFESSIONAL ENGINEER
OF
GEORGE ADDIE
BRITISH COLUMBIA
ENGINEER

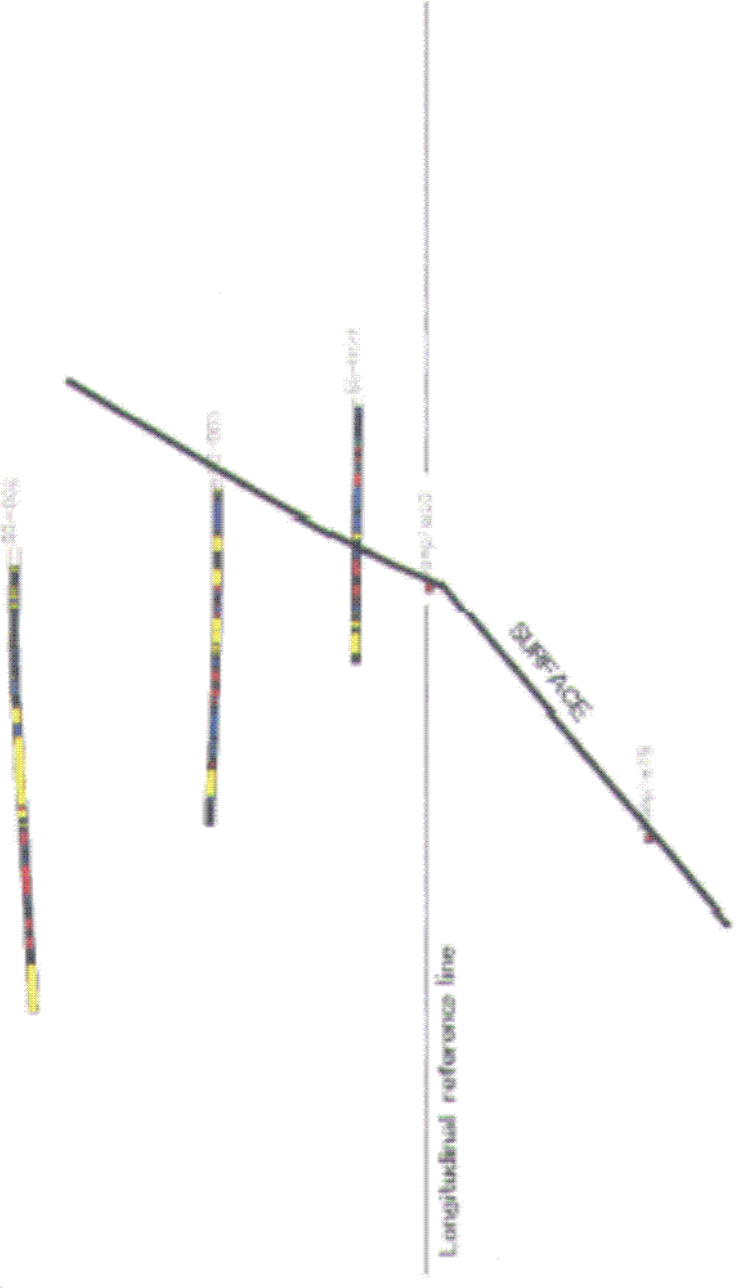
by George Addie P.Eng.
03/03/2001

View ±150m

Scale 1:2500

SECTION 2

WORLDWIDE GRAPHITE PRODUCERS LTD.



PROFESSIONAL ENGINEER
GEORGE ADDIE
BRITISH COLUMBIA

1 cm.
25m

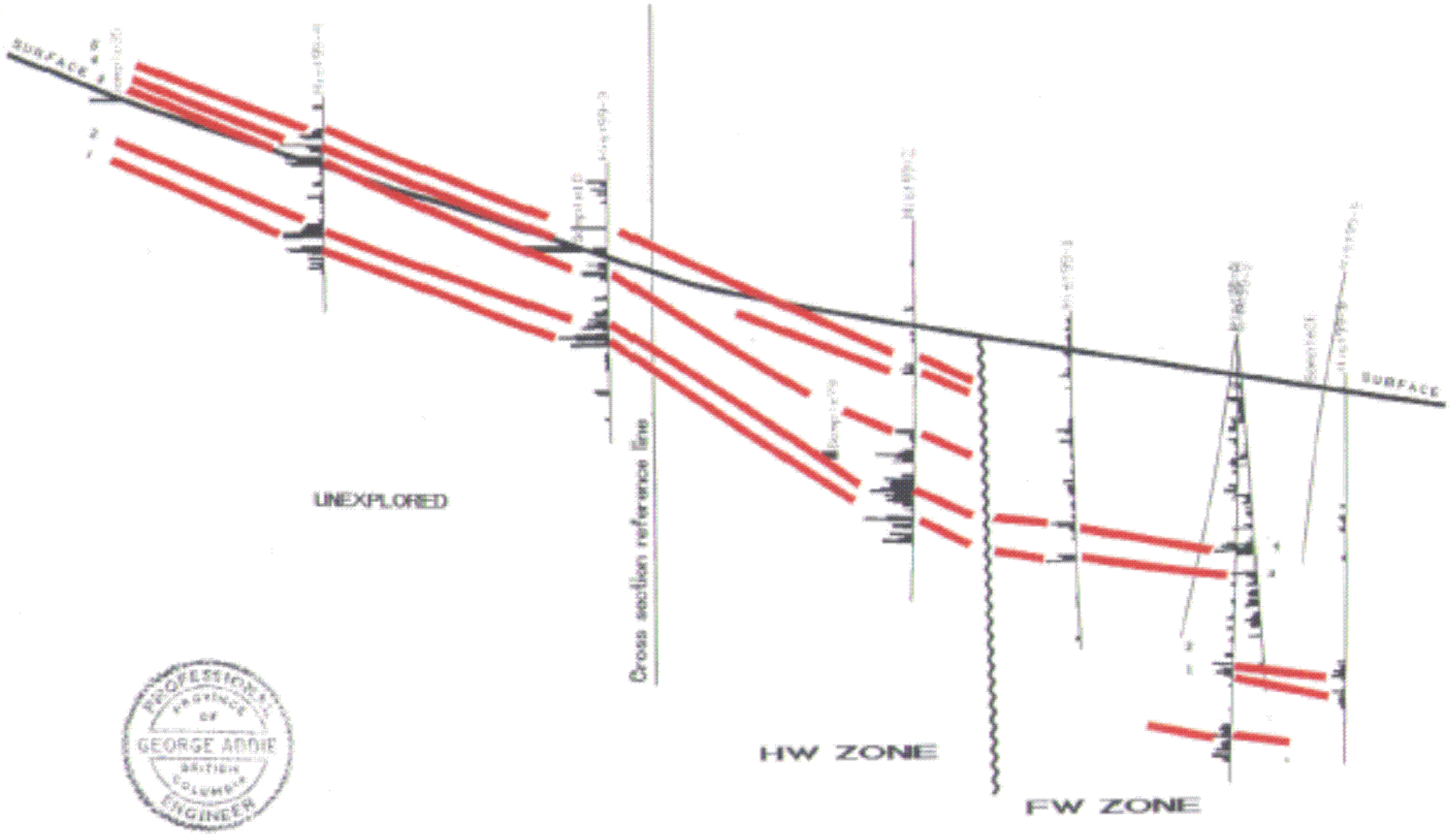
by George Addie P.Eng.
03/03/2001

View ±150m

Scale 1:2500

SECTION 3

WORLDWIDE GRAPHITE PRODUCERS LTD.



PROFESSIONAL ENGINEER
PROVINCE OF BRITISH COLUMBIA
GEORGE ADDIE

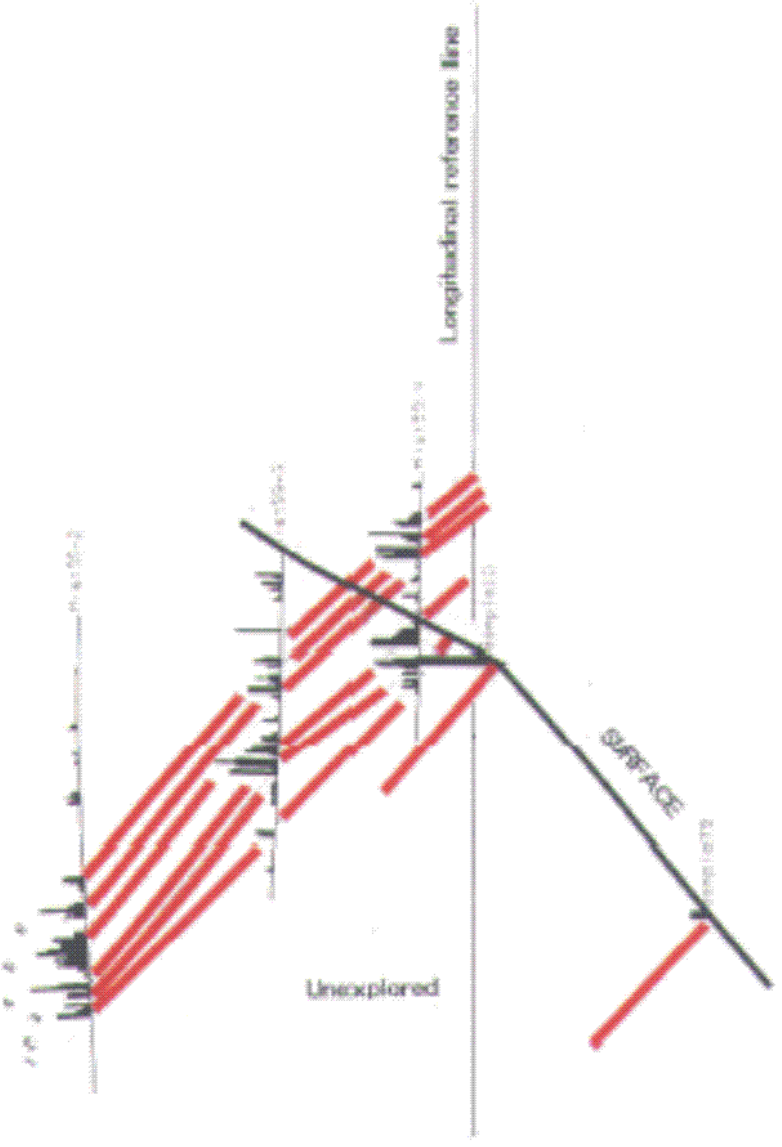
by George Addie P.Eng.
03/03/2001

View ±150m

1 cm.
25m
Scale 1:2500

WORLDWIDE GRAPHITE PRODUCERS LTD.

SECTION 4



PROFESSIONAL ENGINEER
GEORGE ADDIE
BRITISH COLUMBIA

1cm.
25m

by George Addie P.Eng.

03/03/2001

View ±150m

Scale 1:2500

ASSAYS

At least four assay labs have been involved:

1. ITS - Vancouver

2. International Metallurgical and Environmental Inc. (IME)-Kelowna, B.C.

3. Lakefield Research- Lakefield, Ontario

4. Asbury Carbons - Asbury, New Jersey

All of the labs have done LECO assays. A check between core samples taken in the 2000 program between IME and Lakefield indicates that there is no correlation. Ref: Table 3.

The critical assays on the main zone, vary from 5.23% Carbon by Lakefield Research Ltd to 13.31% and 10.8% by Asbury Carbons.

In a new discovery area, at Bannock Burn Creek sample 2, (float) has an assay of 2.22% by Lakefield Research Ltd and 5.61% by Asbury Carbons.

Thus for decision making, LECO assays in this case are unsatisfactory. They are probably useful as a prospecting tool to indicate where bulk samples for floatation should be taken.

The Main Zone flotation Test No F1, by Lakefield Research, resulted in a head calculation of 5.55% Graphite.

Asbury Carbons on August 17, 1998, reports 4-5% Graphite in a bench test. It is assumed that both of the samples came from the same place.

TABLE 3

Assay checks on Hole 99-8 between Lakefield and L.E.

IME No	Ime Assay	Lakefield	Difference
207028	0.06	0.19	-0.13
207029	0.72	0.22	0.5
207034	0.52	0.48	0.04
207063	0.84	0.64	0.2
207064	1.12	0.01	1.11
207065	0.84	0.46	0.38
207038	0.56	0.58	-0.02
207039	0.36	0.45	-0.09
207040	0.36	0.2	0.16
207041	0.52	0.17	0.35
207042	1.03	0.11	0.92
207043	0.61	0.53	0.08
2070.44	0.27	0.45	-0.18

Regression Output:

Constant		0.6979797
Std Err of Y Est		0.3128138
R Squared		0.0347194
No. of Observations		13
Degrees of Freedom		11
X Coefficient(s)	-0.281456	
Std Err of Coef.	0.4474602	
No Correlation		

Tonnage and Grade Calculations

Several new factors have entered into the calculations compared to those made in the report of Dec 15, 2000

1. The model has changed from that of an open pit calculation to that of benching. The reason for this is to allow selective mining so that the larger pegmatite zones which have no graphite value, can be omitted from the calculations.

2. The length of the main zone has increased to accommodate sample 35 to the south of ddh 99-4. This showing is on strike with the main zone and responded well to a self potential survey on the road. On the other hand the zone was decreased to the North by the fault between ddh 99-2 and ddh 99-1.

3. The footwall zone is still missing assays for ddh 99-7 and 99-9. The new assays obtained in 2000 have been added for ddh 99-8.

TABLE 4

Tonnage and Grade Calculations 2001 (Feb)
From SG99 drill holes and selected outcrops

Main Zone					Graphite	Specific	
Zone	DDH	Horiz. L(m)	Dip L(m)	True W (m)	%	Gravity	Tonnes
5	99-4			1.8	1.65		
	99-3			0.9	3.04		
	99-2			1.18	1.38		
			Average	1.29	2.02		
Tonnage Calculation		400	188	1.38		2.74	284346
4	99-4			1.68	2.5		
	99-3			1.5	1.55		
	99-2			3.66	1.59		
			Average	2.28	1.88		
Tonnage Calculation		400	190	2.28		2.74	474787
3	99-4			3.17	2.57		
	99-3			1.56	2.15		
	99-2			1.96	2.08		
			Average	2.23	2.27		
Tonnage Calculation		400	195	2.23		2.74	476596
2	99-4			4.64	2.16		
	99-3			4.1	1.76		
	99-2			1.35	2.94		
			Average	3.36	2.29		
Tonnage Calculation		400	187	3.36		2.74	688639
1	99-4			2.88	2.25		
	99-3			4.29	2.64		
	99-2			1.32	2		
			Average	2.83	2.30		
Tonnage Calculation		400	170	2.83		2.74	527286
0	99-4			0.94	1.12		
	99-3			1.85	1.04		
	99-2			1.97	1.8		
			Average	1.59	1.32		
Tonnage Calculation		400	175	1.59		2.74	304962
Average							
Total Tonnage							**2756615**

Average Grade

Zone	ddh 99-2	ddh99-3	ddh99-4	Average
5	1.63	3.04	3.08	2.58
4	1.59	1.55	2.5	1.88
3	2.08	2.15	2.57	2.27
2	2.93	1.76	2.16	2.28
1	1.51	2.64	2.25	2.13
0	1.8	1.04	1.12	1.32
Average Grade				**2.08**

Feb 2001 Grade Calculations

Main Zone Location	Zone No	From	To	Width	True Width Sine52	Graphite Assay %	Assay*TW
ddh 99-2	5	87.57	89.07	1.5	1.182	1.38	1.63116
				Sum	1.182		
				Average			1.38
	4	97.2	98	0.8	0.6304	1.11	0.699744
		98	99	1	0.788	3.05	2.4034
		99	100	1	0.788	1.3	1.0244
		100	101	1	0.788	0.81	0.63828
		101	101.84	0.84	0.66192	1.58	1.0458336
				Sum	3.65632		5.8116576
				Average			1.5894828
	3	108	109	1	0.788	2.26	1.78088
		109	110	1	0.788	1.71	1.34748
		110	111	1	0.788	1.88	1.48144
		111	112	1	0.788	1.77	1.39476
		112	113	1	0.788	2.64	2.08032
		113	114	1	0.788	3.46	2.72648
		114	115	1	0.788	1.45	1.1426
		115	116	1	0.788	2.22	1.74936
		116	117	1	0.788	1.6	1.2608
		117	118	1	0.788	2.05	1.6154
		118	118.51	0.51	0.40188	1.56	0.6269328
				Sum	8.28188		17.206453
				Average			2.0776023
	2	124.29	125.2	0.91	0.71708	2.07	1.4843556
		125.2	126	0.8	0.6304	3.92	2.471168
				Sum	1.34748		3.9555236
				Average			2.9354971
	1	127.32	128	0.68	0.53584	1.49	0.7984016
		128	129	1	0.788	1.53	1.20564
				Sum	1.32384		2.0040416
				Average			1.5138095
	0	133.4	134.4	1	0.788	1.02	0.80376
		134.4	135.9	1.5	1.182	2.32	2.74224
				Sum	1.97		3.546
				Average			1.8

Feb 2001 Grade Calculations
Main Zone

Location	Zone No	From	To	Width	True Width Sine 52	Graphite Assay %	Assay*TW
ddh 99-3	5	27	28.15	1.15	0.9062	3.04	2.754848
				Sum	0.9062		
				Average			3.04
	4	35.87	36.7	0.83	0.65404	1.25	0.81755
		36.7	37.77	1.07	0.84316	1.79	1.5092564
				Sum	1.4972		2.3268064
				Average			1.5541053
	3	45.58	46.63	1.05	0.8274	2.19	1.812006
		46.63	47.56	0.93	0.73284	2.11	1.5462924
				Sum	1.56024		3.3582984
				Average			2.1524242
	2	65.6	66.6	1	0.788	1.7	1.3396
		66.6	67.6	1	0.788	1.07	0.84316
		67.6	68.6	1	0.788	1.81	1.42628
		68.6	69.6	1	0.788	2.26	1.78088
		69.6	69.9	0.3	0.2364	2.18	0.515352
		69.9	70.5	0.6	0.4728	0.55	0.26004
		70.5	70.8	0.3	0.2364	4.44	1.049616
				Sum	4.0976		7.214928
				Average			1.7607692
	1	71.65	72.6	0.95	0.7486	2.89	2.163454
		72.6	73.6	1	0.788	4.25	3.349
		73.6	74.6	1	0.788	2.77	2.18276
		74.6	75.8	1.2	0.9456	0.37	0.349872
		75.8	77.1	1.3	1.0244	3.23	3.308812
				Sum	4.2946		11.353898
				Average			2.6437615
	0	95.54	97.89	2.35	1.8518	1.04	1.925872
				Average	1.8518		1.04

Feb 2001 Grade Calculations
Main Zone

Location	Zone No	From	To	Width	True Width Sin 52	Graphite Assay %	Assay*TW
ddh 99-4	5	16.5	17.5	1	0.788	1.85	1.4578
		17.5	18.4	0.9	0.7092	1.59	1.127628
		18.4	18.87	0.47	0.37036	1.33	0.4925788
				Sum	1.86756		3.0780068
				Average			1.6481435
	4	20.74	21.9	1.16	0.91408	3.52	3.2175616
		21.9	22.68	0.78	0.61464	1.27	0.7805928
		22.68	22.88	0.2	0.1576	1.39	0.219064
				Sum	1.68632		4.2172184
				Average			2.5008411
	3	25.98	27	1.02	0.80376	3.03	2.4353928
		27	28	1	0.788	1.82	1.43416
		28	29	1	0.788	2.96	2.33248
		29	30	1	0.788	2.48	1.95424
				Sum	3.16776		8.1562728
				Average			2.5747761
	2	53.85	54.85	1	0.788	1.27	1.00076
		54.85	56	1.15	0.9062	1.53	1.386486
		56	57	1	0.788	1.82	1.43416
		57	58	1	0.788	3.18	2.50584
		58	59	1	0.788	3.27	2.57676
		59	59.3	0.3	0.2364	0	0
		59.3	59.74	0.44	0.34672	3.18	1.1025696
				Sum	4.64132		10.006576
				Average			2.1559762
	1	62.5	63.5	1	0.788	1.76	1.38688
		63.5	64.5	1	0.788	2.99	2.35612
		64.5	65.5	1	0.788	2.62	2.06456
		65.5	66.15	0.65	0.5122	1.31	0.670982
				Sum	2.8762		6.478542
				Average			2.2524658
	0	67.6	68.8	1.2	0.9456	1.12	1.059072
				Average	0.9456		1.12

TABLE 5

Feb 2001 FW Tonnage and Grade Calculations

Zone		Horiz. L (m)	Dip L (m)	TW (m)	Graphite %	Specific Gravity	Tonnes
5	ddh 99-1			1.96	1.79		
	ddh 99-6			4.9	1.7		
			Average	3.43	1.75		
Tonnage Calculation		90	65	3.43		2.74	54979
4	ddh-1			2.64	1.42		
	ddh-6			0.98	2.01		
			Average	1.81	1.72		
Tonnage Calculation		88	65	1.81		2.74	28368
3	ddh 99-5			2.45	1.06		
	ddh 99-8			0.98	1.11		
			Average	1.72	1.09		
Tonnage Calculation		94	43	1.72		2.74	19049
2	ddh 99-5			0.68	1.51		
	ddh 99-8			1	1.01		
			Average	0.84	1.26		
Tonnage Calculation		94	43	0.84		2.74	9303

Total Tonnage **111699**

Average Grade

Zone	ddh99-1	ddh99-6	ddh-5	ddh-8	Average
5	1.79	1.7			1.75
4	1.42	2.01			1.72
3			1.06	1.11	1.09
2			1.51	1.01	1.26
Average FW Grade					**1.45**

Feb 2001 FW Grade Calculations

ddh 99-1	Zone	From	to	Width	True Width Sin 80	Graphite Assay %	Assay*TW
	5	88.5	89.5	1	0.98	2.12	2.0776
		89.5	90.5	1	0.98	1.46	1.4308
				Sum	1.96		3.5084
				Average			1.79
	4	102.31	103.31	1	0.98	1.53	1.4994
		103.31	104.2	0.89	0.8722	1.23	1.072806
		104.2	104.6	0.4	0.392	0.4	0.1568
		104.6	105	0.4	0.392	2.58	1.01136
				Sum	2.6362		3.740366
				Average			1.42
ddh 99-6	5	103.52	104.52	1	0.98	1.46	1.4308
		104.52	105.52	1	0.98	0.76	0.7448
		105.52	106.52	1	0.98	3.35	3.283
		106.52	107.52	1	0.98	1.39	1.3622
		107.52	108.52	1	0.98	1.53	1.4994
				Sum	4.9		8.3202
				Average			1.70
	4	117.74	118.74	1	0.98	2.01	1.9698
				Sum	0.98		
				Average			2.01
ddh 99-5	3	140	140.53	0.53	0.5194	1.02	0.529788
		140.53	141.53	1	0.98	0.75	0.735
		141.53	142.53	1	0.98	1.4	1.372
				Sum	2.4794		2.636788
				Average			1.06
ddh 99-8	3	126.52	127.52	1	0.98	1.11	1.0878
				Sum	0.98		
				Average			1.11
ddh 99-5	2	168.72	169.4	0.68	0.6664	1.51	1.006264
				Sum	0.67		
				Average			1.51
ddh99-8	2	133.33	134.33	1	0.98	1.01	0.9898
				Sum	0.98		
				Average			1.01

Economics

Crystal Graphite Corp. have published their projected cost figures on www.crystalgraphite.com/docs/rep4.html. These are by Mr Ted Nunn, P.Eng. The Operating cost is $17.04 and the Capital Cost is $18.33 Canadian/Ton. The Government costs such as royalty etc. are not included.

Two calculations have been made.

1. Table 5 is for $300US/tonne, which is presently quoted by Asbury Carbons. At the present exchange rate of 0.64 Canadian the break-even value would be estimated at 9% Graphite.

2. Table 6 is for $1000US/tonne, and would indicate a cut-off value of 2.5% Graphite.

It is obvious that marketing as well as excellent engineering and metallurgy is going to be necessary for this project to be successful.

TABLE 6

Crystal Graphite economics applied to Superior Graphite

Value /Tonne American	Canadian Exchange	Canadian Value	Value Per #	Value at 10% Graphite 220.46	Profit Can$ -35.37	Value at 9% Graphite 198.42	Profit Can$ -35.37	Value at 8% Graphite 176.37	Profit Can$ -35.37	Value at 7% Graphite 154.32	Loss Can$ -35.37
300	0.68	441.18	0.20	44.12	8.75	39.71	4.34	35.29	-0.08	30.88	-4.49
300	0.67	447.76	0.20	44.78	9.41	40.30	4.93	35.82	0.45	31.34	-4.03
300	0.66	454.55	0.21	45.45	10.08	40.91	5.54	36.36	0.99	31.82	-3.55
300	0.65	461.54	0.21	46.15	10.78	41.54	6.17	36.92	1.55	32.31	-3.06
300	0.64	468.75	0.21	46.87	11.50	42.19	6.82	37.50	2.13	32.81	-2.56
300	0.63	476.19	0.22	47.62	12.25	42.86	7.49	38.10	2.73	33.33	-2.04
300	0.62	483.87	0.22	48.39	13.02	43.55	8.18	38.71	3.34	33.87	-1.50
300	0.61	491.80	0.22	49.18	13.81	44.26	8.89	39.34	3.97	34.43	-0.94
300	0.6	500.00	0.23	50.00	14.63	45.00	9.63	40.00	4.63	35.00	-0.37

TABLE 7

Crystal Graphite economics applied to Superior Graphite

Value /Tonne American	Canadian Exchange	Canadian Value	Value Per #	Value at 4% Graphite (per tonne)	Profit=V-Oc-Cc Operating Cost Capital Cost $17.04+$18.33	Value at 3% Graphite (per tonne)	Profit	Value at 2.5% Graphite (per tonne)	Profit	Value at 2% Graphite (per tonne)	Profit
1000	0.68	1470.59	0.67	58.80	23.43	44.12	8.75	36.76	1.39	29.41	-5.96
1000	0.67	1492.54	0.68	59.68	24.31	44.78	9.41	37.31	1.94	29.85	-5.52
1000	0.66	1515.15	0.69	60.58	25.21	45.45	10.08	37.88	2.51	30.30	-5.07
1000	0.65	1538.46	0.70	61.51	26.14	46.15	10.78	38.46	3.09	30.77	-4.60
1000	0.64	1562.50	0.71	62.47	27.10	46.87	11.50	39.06	3.69	31.25	-4.12
1000	0.63	1587.30	0.72	63.47	28.10	47.62	12.25	39.68	4.31	31.75	-3.62
1000	0.62	1612.90	0.73	64.49	29.12	48.39	13.02	40.32	4.95	32.26	-3.11
1000	0.61	1639.34	0.74	65.55	30.18	49.18	13.81	40.98	5.61	32.79	-2.58
1000	0.6	1666.67	0.76	66.64	31.27	50.00	14.63	41.67	6.30	33.33	-2.04

Significant Prospecting Discoveries Made in 2000

The prospecting achievements made by Mr John Rapski and his prospectors are starting to confirm the belief that a "world class" graphite deposit may exist on the claims of **Worldwide Graphite Producers Ltd.**

At least four new exploration targets have been identified by prospecting.

1. Ref: Sample location map by John Rapski, Jan 2001.
   The sample locations need to be corrected by -81m for the Easting values and +209m for the Northing values. Too, it is important to look at the assay sheets to identify the float samples

   The most important discovery is at sample 72. This is a grab sample which assayed 3.41% Graphite. If it represents the Hanging Wall Zone north of Freda Creek, then 400m could be added to the calculations. However, until this new zone is drilled with the same density as to the south it cannot be included.

2. Sample 61 (called the "red zone") with an assay of 3.25 is of a new type mineralization in a Biotite Schist. So far all the emphasis in exploration has been on the marble showings so this is new. Because it is on an old logging road natural drill sites are present.

3. The float grab samples 1 and 2 from the Bannock Burn Creek area which assayed 2.83 and 2.22 must be found in place. The mineral zones may follow the contours in this area which would allow bench mining.

4. The samples at locations 53 and 56 while low in graphite may represent the marble zone mapped by Dr Reesor on GSC Map 1176A. If so, all the mineral zones found on the West side of Hoder Creek will also be found there. The dip will be to the west and coupled with the outcrop following the contours, would offer the possibility of open pit mining. All of the east side of Hoder creek remains to be explored.

CONCLUSIONS

1. It may be that a "World Class" Graphite deposits exists in the area of **"Worldwide Graphite Producers Ltd"**, and the **"Crystal Graphite Corp"** locations.

2. The Main Zone of "Worldwide Graphite Producers Ltd" has a calculated tonnage of 2.7 million tonnes (2.97 Tons) with a grade of 2.08% Graphite based on a vertical longitudinal section and a vertical cross section.

3. The Footwall Zone of "Worldwide Graphite Producers Ltd" has a tonnage of 112 thousand tonnes (123 thousand tons) with a grade of 1.45% Graphite.

4. Using the published cost data by their project manager, Ted Nunn P.Eng. (B.C.), for the "Crystal Graphite Corp" property, a cut-off value of 2.5% is found for graphite at $1000US/tonne. At $300US/tonne (a recent quote from Asbury Carbons) the cut-off is 9% graphite per tonne. This is based on the Canadian exchange value of 0.64. Note: the published costs do not include Government Costs.

5. As far as assays are concerned it is believed that the best results are from flotation bench test.

6. At least four new exploration targets were discovered by prospecting in 2000.

STATEMENT OF QUALIFICATIONS

I, GEORGE G. ADDIE, P.ENG., do hereby certify:

1. That I am a Professional Engineer of the Province of British Columbia residing at 604 3rd Street, Nelson, B.C., V1L 2P9.

2. That I am a graduate of Mount Allison University of Sackville, New Brunswick, and Washington State University, Pullman, Washington, having obrtained a Science Degree in Geology from each university.

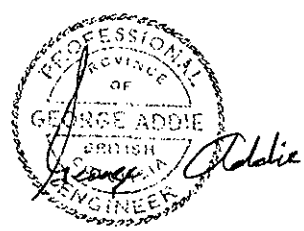
3. That I have practiced my profession in Geology since 1959 for Rio Algom Mines., (Elliot Lake, Ontario), Bralorne Pioneer Gold Mines, B.C. Phoenix Copper Mine, at Grand Forks, B.C., Pend Oreille Mines Ltd., Metaline Falls, Washington State, the Reeves MacDonald Mine, Remac, B.C. and at Cominco's Sullivan Mine, Kimberly, B.C.

4. That I have served as a Professional Geologist for J.C. Sproule and Associates of Calgary, Alberta, and Addie Consultants Ltd., of Calgary, Alberta.

5. That for fourteen years I was with the B.C. Department of Energy, Mines and Petroleum Resources as the District Geologist in Nelson, B.C., and that I am now retired from that position.

6. That I am a member of the Canadian Executive Services Overseas, (C.E.S.O.) And have served in Bolivia, and Colombia.

7. That I am a Fellow in good standing of the Geological Association of Canada.



Dated at Nelson, British Columbia on the 5th day of March, 2001

References Cited

1. Addie, G.G. (December 15, 2000) "A Report on the "inferred Mineral Resource" at the Superior Graphite Property based on the 1999 Diamond Drill Program and prospecting during the year 2000"

2. Pearson, Hofman & Associates Ltd. (September 1998)
"Metallurgical Test Sampling Program for the Superior Graphite Property"

Note: This report includes a report by Lakefield Research Limited, (July 30, 1998), "An Investigation of the Recovery of Graphite from a Sample submitted by International Mineral & Exploration Corp."

Also included is another Lakefield Research Report, (June 17, 1998), "Mineralogical Investigation of Graphite-Bearing rocks from an unknown property, British Columbia, Canada.

3.SNC-Lavalin Engineers and Constructors, (June 15, 2000)
"Superior Graphite Property 1999 Diamond Drill Report"

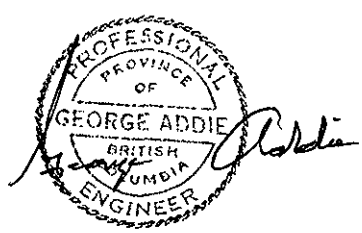
4. Quantec Consulting Incorporated, (August 1998)
"Geophysical Survey Logistics Report"

DISCLAIMER

I, George G. Addie, P. Eng., 604 3rd St., Nelson, B.C., V1L2P9
State:

1. That I have worked nine days on the Superior Graphite property of Worldwide Graphite Producers Ltd., from September 13 to October 24, 2000.

2. That I have not received, nor do I expect to receive, any interest in the properties or securities of Worldwide Graphite Producers Ltd.



Dated at Nelson, British Columbia on the 5th day of March, 2001

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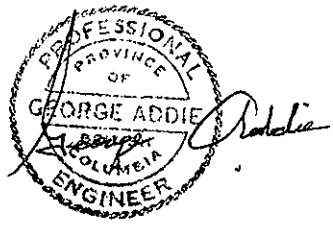

Dated at Nelson, British Columbia on the 5th day of March, 2001

APPENDIX A

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37.77 38.37 1 0.22 -
38.37 39.12 1 0.94 -
39.12 40.16 1 0.0 -
40.16 40.38 1 2.01 -
40.38 41.63 1 0.0 -
41.63 42.63 1 0.8 -
42.63 43.0 1 1.68 -
43.0 44.0 1 0.67 -
44.0 44.73 1 0.83 -
44.73 45.58 1 0.3 -
45.58 46.63 1 2.19 -
46.63 47.56 1 2.11 -
47.56 48.22 1 0.0 -
48.22 48.44 1 2.6 -
48.44 49.18 1 0.65 -
49.18 50.18 1 0.19 -
50.18 55.85 1 0.0 -
55.85 56.9 1 0.37 -
56.9 57.72 1 1.13 -
57.72 61.0 1 0.0 -
61.0 61.4 1 1.85 -
61.4 61.65 1 0.31 -
61.65 62.65 1 0.52 -
62.65 63.65 1 1.22 -
63.65 64.85 1 1.09 -
64.85 65.6 1 0.0 -
65.6 66.6 1 1.7 -
66.6 67.6 1 1.07 -
67.6 68.6 1 1.81 -
68.6 69.6 1 2.26 -
69.6 69.9 1 2.18 -
69.9 70.5 1 0.55 -
70.5 70.8 1 4.44 -
70.8 71.65 1 0.0 -
71.65 72.6 1 2.89 -
72.6 73.6 1 4.25 -
73.6 74.6 1 2.77 -

75.8 77.1 1 3.23 -
77.1 79.78 1 0.0 -
79.78 80.78 1 0.3 -
80.78 81.78 1 0.38 -
81.78 82.88 1 0.28 -
82.88 83.88 1 0.4 -
83.88 84.88 1 0.19 -
84.88 85.88 1 0.26 -
85.88 86.88 1 0.33 -
86.88 87.3 1 0.28 -
87.3 95.54 1 0.0 -
95.54 96.54 1 1.3 -
96.54 97.89 1 1.04 -
97.89 107.14 1 0.0 -
107.14 108.14 1 0.44 -
108.14 109.46 1 0.11 -
109.46 117.99 1 0.0 -
END:

D: Hist99-4

LOCATION:

445431 5506698.0 1447.0

SURVEY:

0.0 360.0 -90.0
79.9 359.0 -89.0
END:

DATA:

0.0 4.18 1 0.0 -
4.18 5.7 1 0.69 -
5.7 13.7 1 0.0 -
13.7 15.08 1 0.56 -
15.08 16.5 1 0.83 -
16.5 17.5 1 1.85 -
17.5 18.4 1 1.59 -
18.4 18.87 1 1.33 -
18.87 20.74 1 0.0 -
20.74 21.9 1 3.52 -
21.9 22.68 1 1.27 -
22.68 22.88 1 1.39 -
22.88 24.28 1 0.93 -
24.28 24.98 1 0.33 -
24.98 25.98 1 0.07 -
25.98 27.0 1 3.03 -
27.0 28.0 1 1.82 -
28.0 29.0 1 2.96 -
29.0 30.0 1 2.48 -
30.0 30.37 1 1.7 -
30.37 31.0 1 0.22 -
31.0 32.0 1 0.19 -
32.0 33.0 1 0.26 -
33.0 33.82 1 0.3 -
33.82 34.82 1 0.11 -
34.82 35.67 1 0.09 -
35.67 36.67 1 0.33 -
36.67 38.22 1 0.65 -
38.22 40.32 1 0.0 -
40.32 41.32 1 0.15 -
41.32 42.32 1 0.19 -
42.32 43.32 1 1.17 -
43.32 44.32 1 0.22 -
44.32 45.3 1 0.22 -
45.3 47.0 1 0.0 -
47.0 47.66 1 0.19 -

48.55 49.2 1 0.19 -
49.2 51.85 1 0.0 -
51.85 52.85 1 0.39 -
52.85 53.85 1 0.26 -
53.85 54.85 1 1.27 -
54.85 56.0 1 1.53 -
56.0 57.0 1 1.82 -
57.0 58.0 1 3.18 -
58.0 59.0 1 3.27 -
59.0 59.3 1 0.0 -
59.3 59.74 1 3.18 -
59.74 62.5 1 0.0 -
62.5 63.5 1 1.76 -
63.5 64.5 1 2.99 -
64.5 65.5 1 2.62 -
65.5 66.15 1 1.31 -
66.15 66.5 1 0.9 -
66.5 67.6 1 0.0 -
67.6 68.8 1 1.12 -
68.8 69.5 1 0.0 -
69.5 70.5 1 0.97 -
70.5 71.0 1 0.38 -
71.0 71.8 1 0.37 -
71.8 72.75 1 1.12 -
72.75 73.75 1 0.15 -
73.75 74.65 1 0.19 -
74.65 90.55 1 0.01 -
END:

D: Hist99-5

LOCATION:

445154.0 5506993.0 1351.0

SURVEY:

0.0 180.0 -90.0
174.4 177.0 -88.0
END:

DATA:

0.0 14.85 1 0.0 -
14.85 15.7 1 0.08 -
15.7 16.14 1 0.0 -
16.14 17.25 1 0.17 -
17.25 21.47 1 0.0 -
21.47 21.76 1 0.67 -
21.76 26.81 1 0.0 -
26.81 27.81 1 0.88 -
27.81 28.65 1 0.64 -
28.65 35.22 1 0.0 -
35.22 35.77 1 0.64 -
35.77 36.21 1 0.0 -
36.21 37.21 1 0.49 -
37.21 38.21 1 0.37 -
38.21 39.0 1 0.3 -
39.0 40.0 1 0.75 -
40.0 41.05 1 0.71 -
41.05 44.07 1 0.0 -
44.07 44.94 1 0.77 -
44.94 45.4 1 0.0 -
45.4 46.4 1 0.29 -
46.4 47.53 1 0.1 -
47.53 50.3 1 0.0 -
50.3 50.91 1 0.19 -
50.91 52.9 1 0.0 -
52.9 53.9 1 0.54 -

53.9 54.6 1 0.65 -
54.6 54.85 1 0.35 -
54.85 55.66 1 0.42 -
55.66 57.37 1 0.0 -
57.37 58.61 1 0.35 -
58.61 63.4 1 0.0 -
63.4 64.4 1 0.68 -
64.4 65.3 1 0.23 -
65.3 66.6 1 1.06 -
66.6 68.25 1 0.17 -
68.25 69.3 1 0.0 -
69.3 69.84 1 0.47 -
69.84 87.77 1 0.0 -
87.77 88.77 1 0.85 -
88.77 89.73 1 1.24 -
89.73 104.85 1 0.0 -
104.85 105.85 1 0.38 -
105.85 111.8 1 0.0 -
111.8 112.8 1 0.34 -
112.8 113.8 1 0.19 -
113.8 117.1 1 0.0 -
117.1 118.0 1 0.08 -
118.0 119.0 1 0.23 -
119.0 120.2 1 0.57 -
120.2 123.33 1 0.0 -
123.33 124.39 1 0.57 -
124.39 127.27 1 0.0 -
127.27 128.4 1 0.15 -
128.4 129.07 1 0.3 -
129.07 134.4 1 0.0 -
134.4 135.86 1 0.66 -
135.86 138.31 1 0.0 -
138.31 139.0 1 1.68 -
139.0 140.0 1 0.0 -
140.0 140.53 1 1.02 -
140.53 141.53 1 0.75 -
141.53 142.53 1 1.4 -
142.53 143.51 1 0.7 -
143.51 143.87 1 0.0 -
143.87 144.83 1 0.19 -
144.83 147.06 1 0.0 -
147.06 148.16 1 0.27 -
148.16 157.0 1 0.0 -
157.0 158.0 1 0.11 -
158.0 163.72 1 0.0 -
163.72 164.72 1 0.67 -
164.72 165.72 1 0.75 -
165.72 166.72 1 0.94 -
166.72 167.72 1 0.57 -
167.72 168.72 1 0.75 -
168.72 169.4 1 1.51 -
169.4 170.4 1 0.0 -
170.4 171.4 1 0.38 -
171.4 172.4 1 0.72 -
172.4 173.4 1 0.72 -
173.4 174.4 1 0.64 -
174.4 175.4 1 1.2 -
175.4 176.4 1 0.0 -
176.4 177.4 1 1.48 -
177.4 178.4 1 1.42 -
178.4 179.4 1 0.53 -
179.4 179.82 1 0.3 -
179.82 188.1 1 0.0 -

END:

ID: Hist99-6

LOCATION:

445154.0 5506998.0 1351.0

SURVEY:

0.0 060.0 -60.0
16.7 058.0 -59.0
86.0 061.0 -57.0
164.6 060.0 -56.0
END:

DATA:

0.0 24.06 1 0.0 -
24.06 24.82 1 0.72 -
24.82 25.19 1 0.0 -
25.19 26.66 1 0.38 -
26.66 27.44 1 0.23 -
27.44 28.04 1 0.0 -
28.04 29.15 1 0.19 -
29.15 30.72 1 0.0 -
30.72 31.82 1 0.30 -
31.82 32.82 1 0.57 -
32.82 33.82 1 0.38 -
33.82 34.1 1 0.27 -
34.1 34.32 1 0.0 -
34.32 34.68 1 0.49 -
34.68 35.05 1 0.47 -
35.05 35.67 1 0.0 -
35.67 36.25 1 0.42 -
36.25 37.25 1 0.53 -
37.25 37.82 1 0.0 -
37.82 38.82 1 0.53 -
38.82 39.6 1 0.3 -
39.6 39.87 1 0.0 -
39.87 40.47 1 0.47 -
40.47 40.9 1 0.0 -
40.9 42.0 1 0.47 -
42.0 42.3 1 0.0 -
42.3 43.56 1 0.53 -
43.56 48.36 1 0.0 -
48.36 49.36 1 0.11 -
49.36 50.83 1 0.04 -
50.83 53.76 1 0.0 -
53.76 54.7 1 0.19 -
54.7 55.58 1 0.0 -
55.58 56.44 1 0.19 -
56.44 57.36 1 0.0 -
57.36 59.06 1 0.19 -
59.06 59.47 1 0.0 -
59.47 60.7 1 0.67 -
60.7 61.49 1 1.33 -
61.49 64.00 1 0.0 -
64.00 64.53 1 0.95 -
64.53 78.76 1 0.0 -
78.76 79.76 1 1.29 -
79.76 80.76 1 0.57 -
80.76 82.03 1 0.38 -
82.03 82.64 1 0.0 -
82.64 83.93 1 0.72 -
83.93 85.03 1 0.0 -
85.03 85.92 1 0.49 -
85.92 87.15 1 0.0 -
87.15 88.15 1 0.42 -
88.15 89.15 1 0.45 -

90.37 93.67 1 0.0 -
93.67 94.67 1 0.72 -
94.67 95.67 1 0.27 -
95.67 96.19 1 1.63 -
96.19 100.3 1 0.0 -
100.3 101.3 1 0.27 -
101.3 101.52 1 0.0 -
101.52 102.52 1 0.08 -
102.52 103.52 1 0.57 -
103.52 104.52 1 1.46 -
104.52 105.52 1 0.76 -
105.52 106.52 1 3.35 -
106.52 107.52 1 1.39 -
107.52 108.52 1 1.53 -
108.52 109.3 1 0.7 -
109.3 111.0 1 0.0 -
111.1 111.39 1 0.67 -
111.39 117.74 1 0.0 -
117.74 118.74 1 2.01 -
118.74 119.74 1 0.81 -
119.74 120.84 1 0.52 -
120.84 122.0 1 0.15 -
122.0 122.8 1 0.27 -
122.8 123.23 1 0.39 -
123.23 124.5 1 0.77 -
124.5 126.6 1 0.0 -
126.6 127.6 1 0.46 -
127.6 128.8 1 0.74 -
128.8 130.0 1 0.66 -
130.0 130.38 1 0.67 -
130.38 131.3 1 0.0 -
131.3 132.3 1 0.76 -
132.3 133.3 1 0.74 -
133.3 133.9 1 0.37 -
133.9 134.9 1 1.02 -
134.9 135.41 1 1.02 -
135.41 137.74 1 0.0 -
137.74 138.74 1 0.26 -
138.74 139.74 1 0.38 -
139.74 140.74 1 0.57 -
140.74 141.74 1 0.69 -
141.74 142.74 1 1.14 -
142.74 143.74 1 0.67 -
143.74 144.74 1 0.76 -
144.74 145.74 1 0.69 -
145.74 149.65 1 0.0 -
149.65 150.65 1 0.91 -
150.65 153.5 1 0.0 -
153.5 153.8 1 1.82 -
153.8 163.45 1 0.0 -
163.45 164.45 1 0.36 -
164.45 178.35 1 0.0 -
END:

D: Hist99-7

LOCATION:

445154.0 5506998.0 1351.0

SURVEY:

0.0 090.0 -60.0
12.19 081.0 -58.0
149.95 087.0 -57.0
END:

DATA:

0.0 151.40 1 0.0
END:
ID: Hist99-8
LOCATION:
445172.0 5507055.0 1335.0
SURVEY:
0.0 360.0 -90.0
162.14 206.0 -89.0
END:
DATA:
0 6.37 1 0.0 -
6.37 7.37 1 0.19 -
7.37 8.37 1 0.22 -
8.37 55.29 1 0.0 -
55.29 56.08 1 0.48 -
56.08 59.79 1 0.0 -
59.79 60.79 1 0.58 -
60.79 61.79 1 0.45 -
61.79 62.79 1 0.2 -
62.79 63.79 1 0.17 -
63.79 64.79 1 0.11 -
64.79 65.79 1 0.53 -
65.79 66.79 1 0.45 -
66.79 76.79 1 0.0 -
76.79 78.79 1 0.28 -
78.79 120.52 1 0.0 -
120.52 121.52 1 0.64 -
121.52 122.52 1 0.0 -
122.52 123.52 1 0.46 -
123.52 124.52 1 0.36 -
124.52 125.52 1 0.99 -
125.52 126.52 1 0.57 -
126.52 127.52 1 1.11 -
127.52 128.52 1 0.24 -
128.52 129.17 1 0.32 -
129.17 132.33 1 0.0 -
132.33 133.33 1 0.28 -
133.33 134.33 1 1.01 -
134.33 135.33 1 0.26 -
135.33 136.33 1 0.54 -
136.33 137.33 1 0.41 -
137.33 138.33 1 0.54 -
138.33 139.33 1 0.36 -
139.33 140.52 1 0.26 -
140.52 163.67 1 0.0 -
END:
ID: Hist99-9
LOCATION:
445172.0 5507055.0 1377.0
SURVEY:
0.0 090.0 -60.0
7.62 088.0 -62.0
137.77 077.0 -60.0
END:
DATA:
0.0 139.29 1 0.0 -
END:
ID: Sample10
LOCATION:
445429.0 5506815.0 1385.0
SURVEY:
0.0 0.0 -90.0
END:

DATA:
0.0 3.3 1 5.23 -
END:
ID: Sample35
LOCATION:
445480.0 5506627.0 1445.0
SURVEY:
0.0 0.0 -90.0
END:
DATA:
0.0 1.6 1 2.56 -
END:
ID: Sample26
LOCATION:
445180.0 5507044.0 1330.0
SURVEY:
0.0 0.0 -90.0
END:
DATA:
0.0 1.5 1 0.77 -
END:
ID: Sample79
LOCATION:
445474.0 5506951.0 1300.0
SURVEY:
0.0 0.0 -90.0
END:
DATA:
0 3.0 1 1.26 -
END:

APPENDIX B

ASSAY CHECK HOLE #8

IME. NO	SAMPLE LENGTH	LAKEFIELD NO.	SAMPLE LENGHT	IME.ASSAY %G.	L.F.ASSAY %G.
207028	1M	8-72251	1M	0.06	0.19
207029	1M	8-72252	1M	0.72	0.22
207034	1M	8-72254	1M	0.52	0.48
207079	1M	8-72255	1.24M	n/a	0.26
207063	1M	8-72257	1M	0.84	0.64
207064	1M	8-72258	1M	1.12	<0.01
207065	1M	8-72259	1M	0.84	0.46
207066	1M	8-72260	1M	n/a	0.36
207067	1M	8-72261	1M	n/a	0.99
207068	1M	8-72262	1M	n/a	0.57
207069	1M.	8-72263	1M	n/a	1.11
207070	1M	8-72264	1M	n/a	0.24
207071	1M	8-72265	1M	n/a	0.32
207072	1M	8-72266	1M	n/a	0.28
207073	1M	8-72267	1M	n/a	1.01
207074	1M	8-72268	1M	n/a	0.26
207075	1M	8-72269	1M	n/a	0.54
207076	1M	8-72270	1M	n/a	0.41
207077	1M	8-72271	1M	n/a	0.54
207078	1M	8-72272	1M	n/a	0.36
207038	1M	8-72273	1M	0.56	0.58
207039	1M	8-72274	1M	0.36	0.45
207040	1M	8-72275	1M	0.36	0.20
207041	1M	8-72276	1M	0.52	0.17
207042	1M	8-72277	1M	1.03	0.11
207043	1M	8-72278	1M	0.61	0.53
207044	1M	8-72279	.53M	0.27	0.45
207055&207056	1M	8-72280	1M	0.69&0.42	0.28

LAKEFIELD RESEARCH LIMITED

P O. Box 4300, 185 Concession St., Lakefield, Ontario, KOL 2HO

ıe : 705-652-2038 - FAX : 705-652-6441

Worldwide Graphite Producers Ltd.
357 Bay Street, Suite 404
Toronto, Ontario, M5H 2T7 - Canada

Attn : Sandy Reid
Fax : 416-367-8334

Lakefield, October 30, 2000

Date Rec. : October 16, 2000
LR. Ref. : OCT9085.R00
Reference : N/A
Project : 2002894

CERTIFICATE OF ANALYSIS

	MAP NO.	No.	Sample ID	LOI @ 950°C %	Volatile @ 950°C %	C(t) %	C(g) %
FLOAT	1.	1	NB "A"	12.2	3.97	7.81	2.83
FLOAT	2.	2	NB "A-1"	20.9	5.32	7.45	2.22
FLOAT	3.	3	"B"	31.1	2.82	8.23	0.32
FLOAT	4.	4	NB "C" Skree Below Peak	22.9	3.45	5.85	0.01
	5.	5	"D" 444847 5509583	17.1	4.46	4.88	0.56
	6	6	"E-1"	36.2	3.51	9.79	0.56
	7.	7	"E-2"	36.1	4.15	9.80	0.35
	8.	8	"F-1" 447553 5509044	2.92	3.00	1.23	0.44
	9.	9	"F-2"	40.9	6.43	11.2	1.02
	10	10	"G" Drill Site Main Zone	25.2	6.24	10.6	5.23
	11	11	"H"	34.5	4.95	9.09	0.31
FLOAT	12.	12	"I"	29.9	6.99	7.60	0.15
	13	13	"J"	47.4	5.78	9.77	0.11
FLOAT	14	14	"K"	38.8	5.48	10.4	0.22
FLOAT	15	15	Freida near "K-I in SSide	12.8	8.31	3.51	0.12
	16	16	"L" Above "K" 20'	28.3	22.1	7.50	0.52
FLOAT	17	17	"M"	17.6	15.9	5.13	0.86
	18	18	"N"	36.3	20.8	9.67	0.22
	19	19	"O" 100' SORCORE	3.19	2.68	2.26	1.56
	20	20	"P" 4455.71 55067.57	2.82	2.14	1.52	1.16
	21	21	"Q" 5m S of STN 1280 SP S	2.70	2.80	0.72	0.62
			-- Check --				
	22	22	"Q" 5m S of STN 1280 SP S	2.65	2.52	0.71	0.66

Roch Marion, B.Sc., C.Chem.
Assistant Manager, Analytical Services

LAKEFIELD RESEARCH LIMITED

Postal Bag 4300, 185 Concession St., Lakefield, Ontario, KOL 2HO

ne : 705-652-2038 - FAX : 705-652-6441

Worldwide Graphite Producers Ltd.
357 Bay Street, Suite 404
Toronto, Ontario, M5H 2T7 - Canada

Attn : Sandy Reid
Fax : 416-367-8334

Lakefield, October 31, 2000

Date Rec. : October 18, 2000
LR. Ref. : OCT9119.R00
Reference : N/A
Project : 2002968

CERTIFICATE OF ANALYSIS

MAP. No.	No.	Sample ID	LOI @ 950°C %	Volatile @ 950°C %	C(t) %	C(g) %
23	1	1 444797/5506550	12.6	12.8	4.03	0.76
24	2	1A 445261/5506835	1.64	1.78	0.93	0.53
25	3	1B 445261/5506835 FW	1.03	1.11	0.72	0.34
26	4	1C 445261/5506935	1.98	2.11	1.35	0.77
27	5	2 445416/5506632	1.97	2.16	0.92	0.40
28	6	2A 35m South of #1	0.65	0.81	0.23	0.08
29	7	2B 35m South of #1	1.17	1.49	0.56	0.27
30	8	2C 35m South of #1 HW	2.10	2.25	0.70	0.14
31	9	3 445446/5506587	1.07	1.22	0.62	0.30
32	10	3 28.4m South of Samp.#1	1.30	1.54	0.15	0.06
33	11	4 445500/5506523	31.0	31.3	7.97	0.22
34	12	4 46.2m South of #2	0.66	1.01	0.26	0.15
35	13	5A 445561/5506418	28.7	28.9	7.67	0.44
36	14	5B 445561	16.6	17.3	6.16	2.53
37	15	5C 445561/5506418	17.8	18.2	6.42	2.60
38	16	6 445099/5506791	9.72	9.85	2.85	0.26
39	17	7 445111/5506806	32.8	33.0	8.98	0.26
40	18	"P1"	3.33	3.75	1.34	1.31
41	19	"R" 4453.57/55069.12	2.19	2.71	0.82	0.66
42	20	"S" 4453.23/55069.24	26.6	26.9	6.92	0.45
43	21	"T" 4457.25/55070.27	5.74	6.10	3.02	2.83
44	22	"U" 4436.69/55099.45	3.12	3.49	1.71	1.58
45	23	"V"	17.1	17.6	4.50	0.49
46	24	"W" OXOGPS TOP OF FREIDA	32.8	33.0	8.73	0.49
47	25	"X" 4450.23/55068.25	9.73	10.0	2.82	0.29
48	26	"Y1" Higher Zone-Lower 25	6.42	6.94	2.40	0.91
49	27	"Y2" High Zone-Lower 75	24.7	25.1	6.20	0.20
50	28	"Y3" High Zine-Upper 50	11.8	12.0	3.06	< 0.01
		-- Check --				
51	29	"S" 4453.23/55069.24	26.2	26.4	6.85	0.43

Roch Marion, B.Sc., C.Chem.
Assistant Manager, Analytical Services

LAKEFIELD RESEARCH LIMITED

Postal Bag 4300, 185 Concession St., Lakefield, Ontario, K0L 2H0
Phone : 705-652-2038 · FAX : 705-652-6441

Worldwide Graphite Producers Ltd.
357 Bay Street, Suite 404
Toronto, Ontario, M5H 2T7 - Canada

Attn : Sandy Reid
Fax : 416-367-8334

Lakefield, November 20, 2000

Date Rec. : November 13, 2000
LR. Ref. : NOV9082.R00
Reference : N/A
Project : 2003117

CERTIFICATE OF ANALYSIS

MAP No.	No.	Sample ID	C(t) %	C(g) %
52	1	Sample#1 445555-5506742	1.14	0.55
53	2	Sample#1 5510707-444230	5.88	0.20
54	3	Sample#1 446029-556509	3.95	0.17
55	4	Sample#2 445548-5506744	0.13	< 0.01
56	5	Sample#2 444230-5510707	5.01	0.10
57	6	Sample#3A 445540-5506748	0.90	0.54
58	7	Sample#3B 445540-5506748	1.78	1.56
59	8	AB1 Bed Rock	0.59	0.24
60	9	AB2	5.68	0.49
61	10	AB3 Red Zone	3.37	3.25
62	11	AB4	3.41	3.37
63	12	AB5	1.51	1.57
SAND 64	13	AB6	3.78	2.59
65	14	AB7	0.75	0.43
66	15	AB8	1.74	0.38
67	16	"B1" Crk Zone	0.61	0.14
68	17	"B2" Crk Zone	0.31	0.28
69	18	K1 North Slope	6.47	4.80
70	19	K2	7.97	0.54
71	20	K3	6.04	0.28
72	21	K4	8.36	3.41
76	22	K5 West Slope	6.56	0.30
77	23	Hoder Crk	1.56	0.25
78	24	K6	1.22	1.20
79	25	P	1.28	1.26
80	26	Z1 bottom of falls	0.56	0.51
81	27	Z2 top of falls	0.88	0.75
82	28	X	1.84	0.82
	29	8-72251	2.59	0.19
	30	8-72252	3.66	0.22
	31	8-72254	1.27	0.48
	32	8-72255	7.41	0.26
	33	8-72257	1.43	0.64
	34	8-72258	1.40	< 0.01
	35	8-72259	0.68	0.46
	36	8-72260	1.61	0.36
	37	8-72261	1.10	0.99

LAKEFIELD RESEARCH LIMITED

Postal Bag 4300, 185 Concession St., Lakefield, Ontario, K0L 2H0
Phone : 705-652-2038 - FAX : 705-652-6441

NOV9082.R00

No.	Sample ID	C(t) %	C(g) %
38	8-72262	1.31	0.57
39	8-72263	1.18	1.11
40	8-72264	1.46	0.24
41	8-72265	1.31	0.32
42	8-72266	2.43	0.28
43	8-72267	3.67	1.01
44	8-72268	4.81	0.26
45	8-72269	3.33	0.54
46	8-72270	3.88	0.41
47	8-72271	4.26	0.54
48	8-72272	4.23	0.36
49	8-72273	5.17	0.58
50	8-72274	6.08	0.45
51	8-72275	7.18	0.20
52	8-72276	4.88	0.17
53	8-72277	6.69	0.11
54	8-72278	6.88	0.53
55	8-72279	7.91	0.45
56	8-72280	6.92	0.28
-- Check --			
57	Sample#2 444230-5510707	5.03	0.09
58	P	1.20	1.28
59	8-72269	3.30	0.55
--Prep Rep --			
60	8-72274	6.03	0.39

Roch Marion, B.Sc., C.Chem.
Assistant Manager, Analytical Services

INTERNATIONAL METALLURGICAL & ENVIRONMENTAL INC
Certificate of Analysis

Project:Industrial Minerals: Resources
Date: December 3, 1999

Sample	% Graphite	S.G. g/cc	Sample	% Graphite	S.G. g/cc
P-207001	0.39	2.67	P-207038	0.56	
P-207002	0.31		P-207039	0.36	
P-207003	0.39		P-207040	0.36	
P-207004	0.27		P-207041	0.52	
P-207005	1.16		P-207042	1.03	
P-207006	0.39		P-207043	0.61	
P-207007	0.31		P-207044	0.27	
P-207008	0.39		P-207045	0.31	
P-207009	0.54		P-207046	0.27	
P-207010	0.27		P-207047	0.15	
P-207011	0.35		P-207048	0.46	
P-207012	0.08		P-207049	0.50	
P-207013	1.04		P-207050	0.49	
P-207014	0.19		P-207051	0.57	
P-207015	0.50		P-207052	0.34	
P-207016	0.57		P-207053	0.42	
P-207017	0.57		P-207054	0.76	
P-207018	0.57		P-207055	0.69	
P-207019	0.84		P-207056	0.42	
P-207020	0.31		P-207057	0.85	
P-207021	0.08		P-207058	0.65	
P-207022	0.29		P-207059	0.57	
P-207023	0.19		P-207060	0.67	
P-207024	0.11		P-207061	0.60	
P-207025	0.48		P-207062	0.34	
P-207026	0.34		P-207063	0.84	
P-207027	0.19		P-207064	1.12	
P-207028	0.06		P-207065	0.84	
P-207029	0.72		P-207010 Duplicate Ck	0.27	
P-207030	0.25		P-207020 Preparatory Ck	0.27	
P-207031	0.078		P-207030 Duplicate Ck	0.23	
P-207032	0.23		P-207040 Preparatory Ck	0.32	
P-207033	1.06		P-207050 Duplicate Ck	0.53	
P-207034	0.52		P-207060 Preparatory Ck	0.71	
P-207035	0.19		.20 % Std	0.19	
P-207036	0.34		1.00 % Std	0.99	
P-207037	0.46		20.0 % Std	19.3	

Approved:

INTERNATIONAL METALLURGICAL & ENVIRONMENTAL INC
Certificate of Analysis

Project:Industrial Minerals Resources
Date: November 24, 1999

Sample	% Graphite	S.G. g/cc	Sample	% Graphite	S.G. g/cc
P-143190	4.36		P-143196	0.08	
P-143191	1.90		P-143190 Duplicate Ck	3.74	
P-143192	2.91		P-143195 Duplicate Ck		2.66
P-143193	4.46		.20 % std	.20	
P-193194	0.95		1.00 % std.	0.99	
P-143195	0.36	2.66	20.0 % std.	19.3	

Approved:

INTERNATIONAL METALLURGICAL & ENVIRONMENTAL INC
Certificate of Analysis

Project:Industrial Minerals Resources
Date: November 24, 1999

Sample	% Graphite	S.G. g/cc	Sample	% Graphite	S.G. g/cc
P-206856	0.08		P-206899	0.11	
P-206857	0.17		P-206900	0.69	
P-206858	0.67		P-206901	0.75	
P-206859	0.68		P-206902	0.94	
P-206860	0.64		P-206903	0.57	
P-206861	0.64		P-206904	0.75	
P-206862	0.49		P-206906	1.51	
P-206863	0.37		P-206905	0.31	
P-206864	0.30		P-206907	0.38	
P-206865	0.75		P-206908	0.72	
P-206866	0.71		P-206909	0.72	
P-206867	0.77		P-206910	0.64	
P-206868	0.29		P-206911	1.20	
P-206869	0.10		P-206912	0.37	
P-206870	0.19		P-206913	1.48	
P-206871	0.54		P-206914	1.42	
P-206872	0.65		P-206915	0.53	
P-206873	0.35		P-206916	0.30	
P-206874	0.42		P-206917	0.27	
P-206875	0.35	2.79	P-206918	0.72	
P-206876	0.66		P-206919	0.38	
P-206877	0.23		P-206920	0.23	
P-206878	1.06		P-206921	0.19	
P-206879	0.17		P-206922	0.80	
P-206880	0.47		P-206923	0.57	
P-206881	0.85		P-206924	0.38	
P-206882	1.24		P-206925	0.27	2.73
P-206883	0.38		P-206926	0.49	
P-206884	0.34		P-206927	0.47	
P-206885	0.19		P-206928	0.42	
P-206886	0.08		P-206929	0.53	
P-206887	0.23		P-206930	0.53	
P-206888	0.57		P-206931	0.30	
P-206889	0.57		P-206932	0.47	
P-206890	0.15		P-206933	0.47	
P-206891	0.30		P-206934	0.53	
P-206892	0.66		P-206935	0.11	
P-206893	1.58		P-206936	0.04	
P-206894	1.02		P-206937	0.19	
P-206895	0.75		P-206938	0.19	
P-206896	1.40		P-206939	0.19	
P-206897	0.30		P-206940	0.67	
P-206898	0.19	2.75	P-206941	1.33	

Approved:

INTERNATIONAL METALLURGICAL & ENVIRONMENTAL INC
Certificate of Analysis

Project:Industrial Minerals Resources
Date: December 3, 1999

Sample	% Graphite	S.G. g/cc	Sample	% Graphite	S.G. g/cc
P-206942	0.95		P-206980	0.26	
P-206943	1.29		P-206981	0.38	
P-206944	0.57		P-206982	0.57	
P-206945	0.38		P-206983	0.69	
P-206946	0.72		P-206984	1.14	
P-206947	0.49		P-206985	0.67	
P-206948	0.42		P-206986	0.76	
P-206949	0.45		P-206987	0.69	
P-206950	0.26		P-206988	0.99	
P-206951	0.72	2.78	P-206989	0.95	
P-206952	0.27		P-206990	0.91	
P-206953	1.63		P-206991	0.95	
P-206954	0.27		P-206992	1.62	
P-206955	0.08		P-206993	0.36	
P-206956	0.57		P-206860 Preparatory Ck	0.69	
P-206957	1.46		P-206870 Duplicate Ck	0.19	
P-206958	0.76		P-206880 Preparatory Ck	0.41	
P-206959	3.35		P-206890 Duplicate Ck	0.15	
P-206960	1.39		P-206900 Preparatory Ck	0.65	
P-206961	1.53		P-206910 Duplicate Ck	0.57	
P-206962	0.70		P-206920 Preparatory Ck	0.23	
P-206963	0.67		P-206930 Duplicate Ck	0.57	
P-206964	2.01		P-206940 Preparatory Ck	0.57	
P-206965	0.81		P-206950 Duplicate Ck	0.25	
P-206966	0.52		P-206960 Preparatory Ck	1.28	
P-206967	0.15		P-206970 Duplicate Ck	0.68	
P-206968	0.27		P-206980 Preparatory Ck	0.33	
P-206969	0.39		P-206990 Duplicate Ck	0.91	
P-206970	0.77		.20 % Std	0.19	
P-206971	0.46		1.00 % Std	1.04	
P-206972	0.74		20.0 % Std	19.5	
P-206973	0.66		P-206875 Duplicate Ck		2.73
P-206974	0.67		P-206925 Duplicate Ck		2.72
P-206975	0.76	2.70			
P-206976	0.74				
P-206977	0.37				
P-206978	1.02				
P-206979	1.02				

Approved:

APPENDIX C

ASBURY CARBONS

Please take our survey. We need your feedback to assist us in building our site to supply our customers needs.

As the world's largest independent processor and merchant of graphite in all forms; Asbury imports, mines, refines, and markets graphite and a broad variety of other carbon products.

Our markets include Fuel Cells, Sealing Materials, Powdered Metallurgy, Friction Products, Shapes, Steel Mill and Foundry Products, Lubricants and Plastics, to name a few.

As world demand for carbon products has grown, Asbury has forged strong alliances with graphite sources around the world. The resulting availability, coupled with our increasingly sophisticated technology, lets us tailor graphite and carbon blends to meet the special needs of each customer.

Included in our product line are flake graphite, carbon fibers, graphite lubricants, activated carbons and pelletized graphite.

Asbury Carbons and Graphite

ASBURY
CARBONS
Founded 1895

FAX TRANSMISSION

ASBURY GRAPHITE MILLS, INC.
A Division of Asbury Carbons, Inc. • 405 Old Main Street • PO Box 144 • Asbury, New Jersey 08802
Phone: 908-537-2155 • Fax: 908-537-2908

COMPANY:	International Mining and Exploration Corp.	DATE:	August 17, 1998
ATTN:	David Amar	FROM:	Stephen A. Riddle
FAX:	416-368-9753	PHONE:	416-368-3900

REF: Sample of Superior Graphite property in BC

Asbury has carefully analyzed the sample of Graphite Ore you sent as follows:

1. We estimate that the percentage of Natural Graphite Flake is approximately 4.00 to 5.00% of the total Ore.
2. We then did some floatation of this Graphite Ore and were able to float the graphite using a Lab Floatation Cell up to purity level of about 60%. We then calculated the particle size of this graphite concentrate as follows:

+30 Mesh	-	2.94
+40 Mesh	-	14.44
+50 Mesh	-	21.66
+60 Mesh	-	12.64
+80 Mesh	-	17.82
+100 Mesh	-	7.78
+200 Mesh	-	14.56
+325 Mesh	-	4.17
-325 Mesh	-	3.99

Summary:

+50 Mesh	-	39.04
+80 Mesh	-	69.80

However, since we were only able to float the Ore in our Lab Floatation Cell to just above 60% graphite, we estimate that on a production scale level, your results of percentage +50 Mesh and +80 Mesh would not be as high.

Thus more realistic results on your graphite concentrate will most likely be as follows:

+50	-	20 - 25%
+80	-	35 - 40%
-80	-	30 - 45%

We also compared your ore with ore we received from a nearby desposit, Black Crystal, and found it to be very similar in appearance and chemical analysis.

If after review, you have any questions on your ore sample we tested or need more information, please let me know.

Best regards,
Stephen A. Riddle

SAR:bh

ASBURY CARBONS
Founded 1895

FAX TRANSMISSION

ASBURY GRAPHITE MILLS, INC.

A Division of Asbury Carbons, Inc. • 405 Old Main Street • PO Box 144 • Asbury, Warren County, New Jersey 08802

Phone #: (908) 537-2155 • Fax #: (908) 537-2908 · www.asbury.com

Company:	Worldwide Graphite Producers Ltd. 357 Bay Street, Suite 404 Toronto, Ontario, Canada M5H 2T7	Date:	January 17, 2001
To:	Sandy Reid	From:	Stephen Riddle sariddle@asbury.com
Phone:	416-367-8544	Fax:	416-367-8334
Subject:	Samples	Pages:	1

Here are results on some of the higher quality (quality is defined by a higher percentage of graphite).

Sample ID#	Map No.	% Graphite	% Carbon (LOI)
11849D	84	3.50%	4.00%
11849E	10	13.31%	27.23%
11847A	1	5.61%	17.10%
11847B	2	6.29%	17.16%
11847C	10	10.80%	21.91%
11847D	13	6.58%	36.34%

You can see that you have a lot of carbonate in most samples, thus the major difference between LOI carbon and the graphite percentage results.

Please review and call me if you want to discuss this matter.

Steve Riddle

SAR:vg

Lakefield *Research*

Lakefield Research Limited
Box 4300, 185 Concession St.
Lakefield, ON, Canada K0L 2H0
Telephone: (705) 652-2038
Fax: (705) 652-6441
Email: rmarion@lakefield.com

FAX

Date:	October 31, 2000	**Page(s):**	3 (including cover sheet)
To:	Sandy Reid	**Fax:**	416-367-8334
Company:	Worldwide Graphite Producers	**Telephone:**	416-367-8544
From:	Roch Marion		
Re:	Graphite analyses		

Sandy:

Attached is a copy of our final reports Oct9085 and Oct9119. We performed a loss on ignition @ 950°C as well as a loss of volatiles at the same temperature as per the methods requested by you and supplied to us by Asbury Carbons. This supplied method is applicable to the analysis of graphite carbon in samples which contain approximately 99% graphitic carbon. The residue remaining after ignition at 950°C is assumed to be the non-carbon species, the loss on ignition at 950°C is equivalent to the graphite carbon.

The samples you sent us were not graphite samples although they did contain some graphitic carbon. The LOI done on these samples would be equivalent to the graphitic carbon found in the samples as well as any carbonate carbon or any other volatiles which come off at 950°C.

Since this LOI value has very little resemblance to the graphitic carbon analysis you are looking for and after discussions with John last Friday; we analyzed all of your samples for total and graphitic carbon. You will find that the sum of the graphitic carbon C(g) and the carbonate carbon as CO_3 {CO_3 = ((C(t) - C(g)) x 3.6666} is very close to the LOI analysis.

Please call me if you would like to discuss this in more detail.

Roch

Roch Marion
Assistant Manager, Analytical Services
Tel.: (705) 652-2038 x2250
Fax: (705) 652-6441
Email: rmarion@lakefield.com
Lakefield Research Ltd.

C-144 Carbon Determinator Specification Sheet

Instrument Range at 350 mg	
[illegible]	[illegible]
Precision	
Carbon	≤1% RSD or ±25 ppm whichever is greater
Readability	1 ppm
Calibration	Single-point, Multi-point (linear, quadratic, cubic polynomial)
Analysis Time	90 seconds (nominal)
Sample Size	350 mg for coal (nominal)
Balance Readability and Range	0.0001 to 120 g
Detection Method	Infrared
Chemical Reagent	Anhydrous Magnesium Perchlorate
Gas Required	Oxygen, 99.5% pure, 40 psi, 3.5 lpm (nominal)
Furnace	400° to 1450°C; 1350°C nominal
External PC (optional)	Pentium™ 333 MHz (min.) 1.2 GB Hard Drive (min.) 16 MB RAM (min.) 1 ISA Slot (min.) Microsoft® Windows® 95 (min.)
Monitor (optional)	15 in. monitor, SVGA (min.)

Physical Dimensions	
[illegible]	[illegible] (61 cm x 55 cm x 56 cm)
Computer	17.2 in. H x 7.6 in. W x 17.3 in. D (44 cm x 19 cm x 44 cm)
Monitor	14.5 in. H x 14.1 in. W x 15.9 in. D (37 cm x 36 cm x 40 cm)
Weights	
Determinator	150 lb. (68 kg)
Computer	29 lb. (13 kg)
Monitor	35 lb. (15 kg)
Total Shipping Weight	240 lb. (108 kg)
Electrical Power Requirements	
Determinator	230 V~ (±10%), 50/60 Hz, 12A (idle),19A (max)
Computer	115/230 V~ (±10%), 50/60 Hz, 40W (typical)
Monitor	90-264 V~, 50/60 Hz, 110W (max)
Balance	115/230 V~ (±10%), 50/60 Hz, 16W (max)
Printer	120 V~ (±10%), 60 Hz, 12W (max)

Part Numbers

C-144	C-144 Carbon Determinator with Software
C-144PC	C-144 Carbon Determinator with Computer
751-300-150	4-place Balance
TBD*	Color Inkjet Printer
501-291	Oxygen Regulator

Computer, monitor, and balance are optional accessories to the C-144.

V~ denotes VAC.

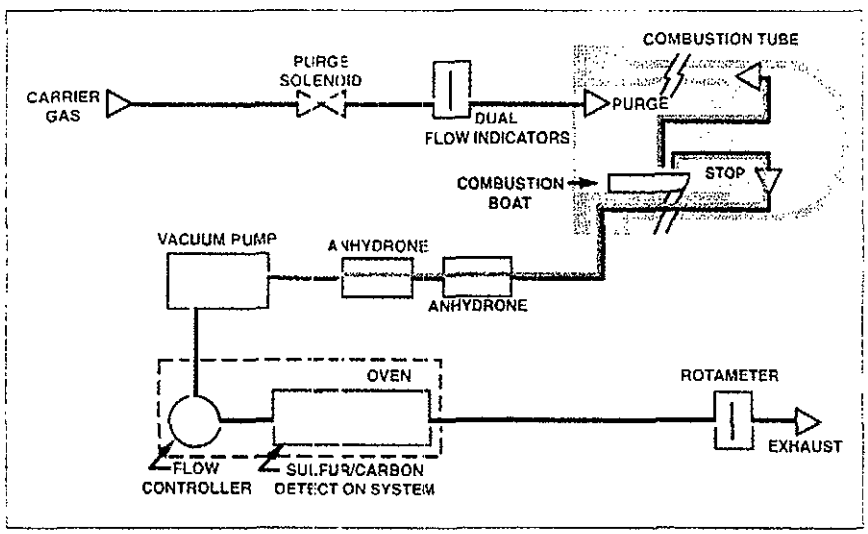
**Please consult your LECO sales engineer or quotation for current part number.*

LECO®

Theory of Operation

Analysis begins by weighing out a sample (250 to 350 grams nominal—weights can vary depending on the sample type) into a ceramic crucible. After recording the weight, accelerator is added in a typical 1:1 ratio to help release the sulfur from the sample matrix. Using a spatula, the sample and accelerator are mixed together with care so that no part of the sample falls out of the crucible. The crucible is loaded into the 1350°C preheated furnace. The analyze key is then pressed, the combustion chamber fills with oxygen, and oxidation of the sample begins. During combustion, carbon forms CO_2 and sulfur forms SO_2. Sample gases are swept into the carrier stream where carbon is detected as CO_2 and sulfur is detected as SO_2 by their respective IR cells.

Basic Flow Diagram



Specifications and part numbers may change. Consult LECO for latest information.

LECO Corporation
3000 Lakeview Avenue • St. Joseph, MI 49085-2396
Phone: 800-292-6141 • Fax: 616-982-8977
info@leco.com • www.leco.com

ISO-9001 No. FM 24045

203-074-013 IPG? 59-REV3

World Headquarters/United States
In United States (800) 292-6141
Outside U.S.A. (616) 983-5531

Organics Group
United States *(Michigan)* (888) 301-1887
For outside U.S.A. call nearest office listed below.

Spectroscopy Group
United States *(Michigan)* (616) 982-8929
For outside U.S.A. call nearest office listed below

International Offices/Subsidiaries
Africa • *LECO Africa (Pty.) Ltd.*
Kempton Park, South Africa
Ph: 27-11-974-1681 • Fax: 27-11-974-1848
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Buenos Aires, C.F. Argentina
Ph: 54-114571-4651 • Fax: 54-11-4573-2722
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Brazil • *LECO Instrumentos Ltda.*
Rio De Janeiro, Brazil
Ph: 55-21-539-0446 • Fax: 55-21-537-8575
Canada • *LECO Instruments Ltd.*
Mississauga, Ontario Canada
Ph: 905-564-6577 • Fax: 905-564-6582
China • *LECO Corp/Beijing Office*
Beijing, China
Ph: 86-10-6512-8877 • Fax: 86-10-6526-0373
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Czech Republic
Ph: 42019-725-9301 • Fax: 42019-521114
France • *LECO France*
Garges-les Gonesse, Cedex France
Ph: 33-1-34-45-46-00 • Fax: 33-1-39-86-41-05
Germany • *LECO Instrumente GmbH*
Mönchengladbach, Germany
Ph: 49-2166-687-0 • Fax: 49-2166-687-100
Hong Kong • *LECO Instruments Hong Kong Ltd.*
Kowloon, Hong Kong
Ph: 852-2387-7028 • Fax: 852-2708-4388
India • *I.R. Technology Serv. Pvt. Ltd.*
Bangalore, India
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Calcutta, India
Ph: 91-33-474-8831 • Fax: 91-33-475-4021
Mumbai, India
Ph: 91-22-495-1085 • Fax: 91-22-495-0584
New Delhi, India
Ph: 91-11-6182560 • Fax: 91-11-683-2857
Italy • *LECO Italy, S.R.L.*
Milan, Italy
Ph: 39-02-953-43391 • Fax: 39-02-953-43461
Japan • *Japan Analyst Corporation*
Tokyo, Japan
Ph: 81 3(3493) 7281 • Fax: 81 3(5496) 7935
Korea • *LECO Korea Co. Ltd.*
Seoul, Korea
Ph: 822-562-4148 • Fax: 822-555-4135
Malaysia • *LECO Instruments (M) Sdn. Bhd.*
Selangor, D.E. Malaysia
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Mexico • *LECO Mexico S.A. de C.V.*
Mexico City, Mexico, D.F.
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The Netherlands • *LECO Europe B.V.*
AG Geleen, The Netherlands
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