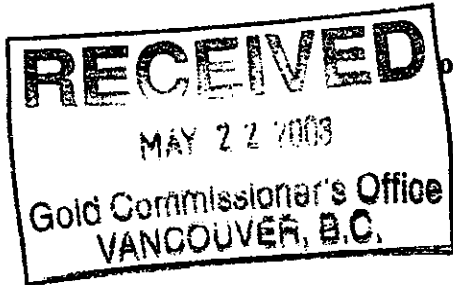An Assessment Report from a Field Trip to Nelson, B. C
to Evaluate the Volume

of the Amorphous Graphite Deposit

in the Area of the

Fortune Graphite Properties

Claims No. Fortune 7 to 18,

in the Nelson Mining Division, B. C.

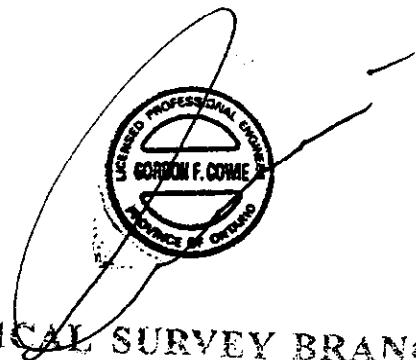the specific NTS location

is NTS 82 F 3

Latitude 49° 08' 23," Longitude 117° 14' 16",

Owner of the Claims: Worldwide Graphite Producers,

Operator- Worldwide Graphite Producers

Author of this report: Gordon F. Cowie, P. Eng,

Date Submitted: October, 2002

GEOLOGICAL SURVEY BRANCH
ASSESSMENT REPORT

27,165

Table of Contents,

Introduction.

The purpose of this report, is to describe the work program done during the summer of 2002. That was carried out in-order to account for the total of the work done on the Claims – Fortune 1 to 6, and Fortune 7 to 18. See page 5, plus 5a, 5b and 5c describing the detailed outline of the Claims mentioned, above.

In this instance, the work was done by Horst Klassen, Ms. Diana Wynne Morton and Gordon F. Cowie. We have included here Pages 5, 5a, 5b and 5c which shows the locations of Claims 1 through 6, and also 7 through 18, where the work this work was carried out over the past summer's field season.

These property's geology's are as mapped on page 5c. As the reader will notice, the main rock units are # 7 which are the Laib Formation which carries graphitic matter. Bordering units are no. 6 to the East and 19b to the west. No. 7 – Laib Formation is argillite. argillaceous quartzite, limestone dolomite, phyllite and schist. No. 6 - Reno Formation is argillatious quartzite, schist, argillatious, quartzite, schist, argillite and limestone. No. 5 Quartzite Range Formation is white, green and pinkish quartzite and conglomerate. No. 19b are Nelson Granites.

Mineralization in these Claims is amply discussed in the paragraph above here.

Laboratory analysis's by "Acme Analytical Laboratories Ltd." of Vancouver are included, following on page 6, as the penultimate item with-in the sample listings.

By the application of some credible assumptions, we have made a forecast of the tonnage's of these Amorphous Graphite occurrences. They are as presented on page 7. We have already discussed the assumptions, being that area was overlain by a one meter thick layer of amorphous graphite.

Graphite Reserves expected in the Dump Claims,

This report attempts to predict an Inferred Volume of Graphite
Ore present in 12 of those Fortune Claims, numbered 7 to 18 at the dump site in
Salmo, B. C. We have done an VLF – EM geo-physical survey of one of the Claims
in this group, No. 8, for it to be used for the making of a conservative prediction of
the total volume of Graphite ore that can perhaps be found under these Claims.

Our survey, reports Graphite is below several places over the extent of
the Claim's surface. Unfortunately, our survey can only suggest that there is
Graphite there, but it cannot measure the thickness of that layer.?

A more definitive measure of thickness can only be made by trenching
down until we encounter the Graphite layer, and then by piercing down
through that layer to measure the thickness at that particular spot. We have guessed
those Graphite layers at being as being One Meter in thickness and of 500 M's by
500 M's in area. Such a configuration will yield a sum total of 550,000 tons per claim
at 2.2 tons per cubic Meter. These approximations will yield a grand-total of
6,600,000 tons.

Our survey as above described, will be useful in developing an efficient
Mining plan which can be used to successfully get the graphite out from being
underground. We are presently leaning toward a plan of using Push-Cats to remove
the gravel over-burden, this would be, as best we can see, be followed by the work of
stripping off the layers of Graphite off with a Front end-loader dumping into trucks
for collection at a convenient shipment site.

We believe that the majority of this Graphite deposit just lies there
flat, and is composed mostly of several horizontal lying blocks. These geo-physical
were carried out from 7th till 12th of October, 2002. After, doing the VMF – EM
survey, we had to use a Frazer Filter (this is a numerical manipulation of the data)
in order to obtain readings that can then be plotted and perhaps might show up
those layer's thickness' too.

An other deposit of Amorphous Graphite occurs in Claims No's 1
through 6, which lye's across and along the West side of highway No. 3A that runs
south and east of Nelson, B. C. along the east side of the Nelson Range. This
occurrence presents in two Graphite massive veins, of what we believed to was
Graphite. They are each about one Meter wide, by 40 Meters high and they are
visible while they cross the road cut, as pictured on page – 4 - Our careful VLF –
EM survey was done as pictured on plot A, where they crossed the highway and
proceeding up and down, that is, North and South from where the road crosses the
veins and show up as black veins. See the plot of these identified as conductors in the
described survey. It's extent is described in here, as Plot A.   ... 3

We have summed up, the indicated lengths of these veins in the plots, that comes to a total of 1,690 M's and that translates to a total of 74,000 tones in this small occurrenc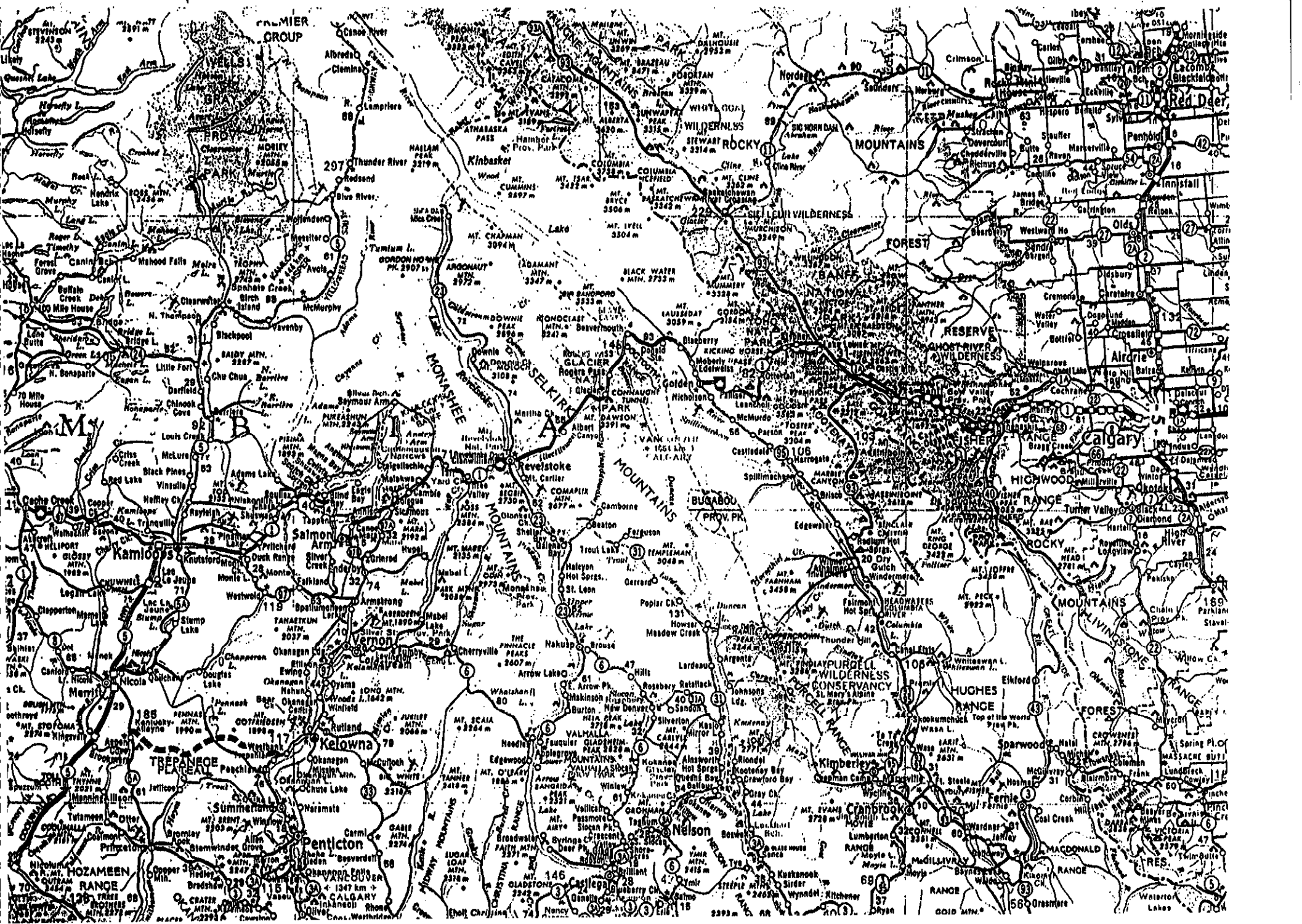e here. The survey traces the veins up across the westerly hill-side and also down to into the valley south and east of the road side crossing.

This writer here, believes that a small open pit mine would be the most efficient method of recovering any Graphite found in this small deposit. Good access is assured because of this deposit's close proximity to a Provincial Highway. In fact, that circumstance might indicate an unusual cost that would have to be endured for such a mining operation to be done here.

We doubt if B. C. would readily welcome mining operations to be done here, adjacent to a road-way, this as carried on so close, as this ore body is to one of their high-ways.? B. C.'s department of Highways will also require that all blasting be carried out, well away from their traffic way routing. Any haul trucks will looked upon as a hazard, and they might be impeded in gaining access to, and passage along these road-ways. These deposits proximity to the Highway and the very steep terrain make this deposit questionable as an economic target, plus the small amount of inferred ore here, means that this ore body may not be an attractive target for further exploration at this present time. The Dump Claims, or Fortune 7 to 18 will be more economical to operate a mine in.

-4-

TENURE 308-15
NELSON MD

N E L S O N

FORTUNE 6
6938064M

FORTUNE 6 2
377600
693788M

FORTUNE 5
377599
693787M

FORTUNE 5
6938054M

FORTUNE 4
6938044M

FORTUNE 4 2
377598
693786M

FORTUNE 3
377597
693785M

FORTUNE 3
6938034M

FORTUNE 1
6938014M

FORTUNE 1 1
377695
693783M

1
377596

693784M
FORTUNE 2
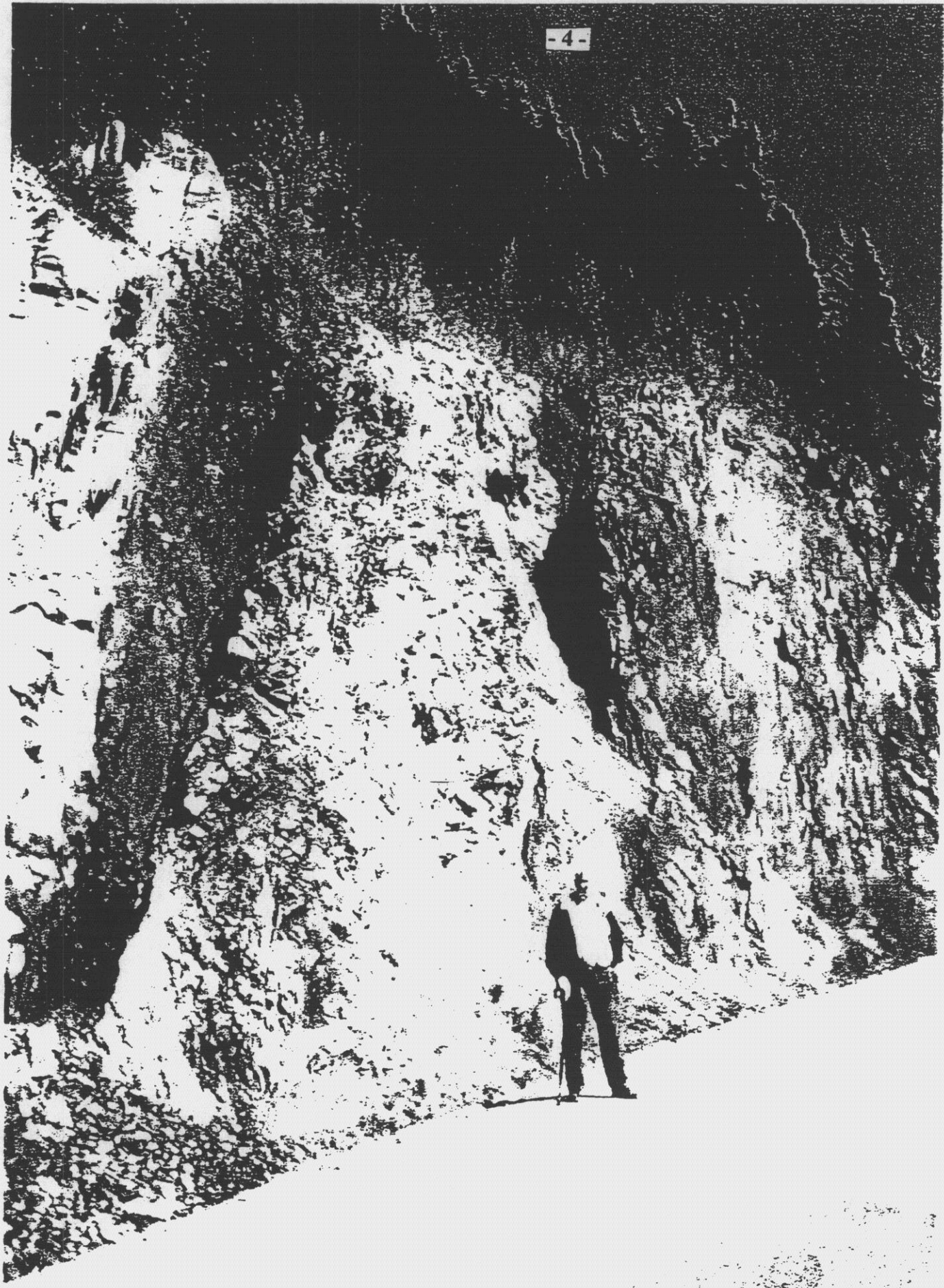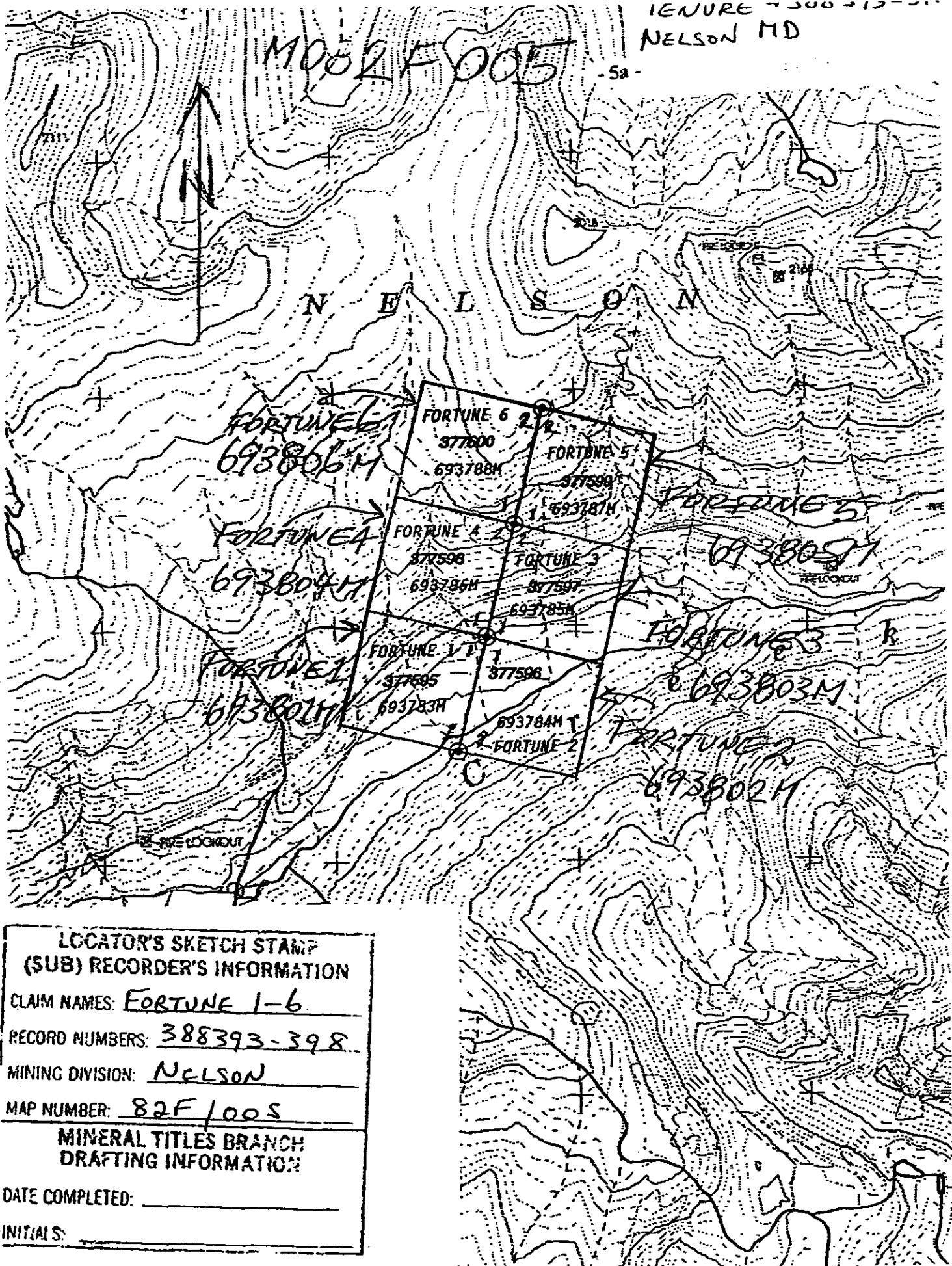
FORTUNE 2
6938024M

LOCATOR'S SKETCH STAMP
(SUB) RECORDER'S INFORMATION

CLAIM NAMES: FORTUNE 1-6

RECORD NUMBERS: 388393-398

MINING DIVISION: NELSON

MAP NUMBER: 82F/005

MINERAL TITLES BRANCH
DRAFTING INFORMATION

DATE COMPLETED: _____

INITIALS: _____

NOTE: EACH E-W LINE
HAS 21 STATIONS
SPACED @ 10M
TOTAL STATIONS 336

492000 E

493000 E

Lookout Fire

WTS MAP 82F3
NAD 27

N

FORTUNE 1 TO 6
MINERAL CLAIMS

F.P. 1000N

E 900N
E 800N
E 700N
E 600N
E 500N
E 400N

6

5

I.P S,6

4657

300N

4

200N

50N

3

150N W

100N

1

I.P 1,2,3,4

100S

200S

2.

300S

400S

F.P.

0

BASE LINE
N-S

F, R, V, E,

Highway 3

5435000 N

⊙ Lookout
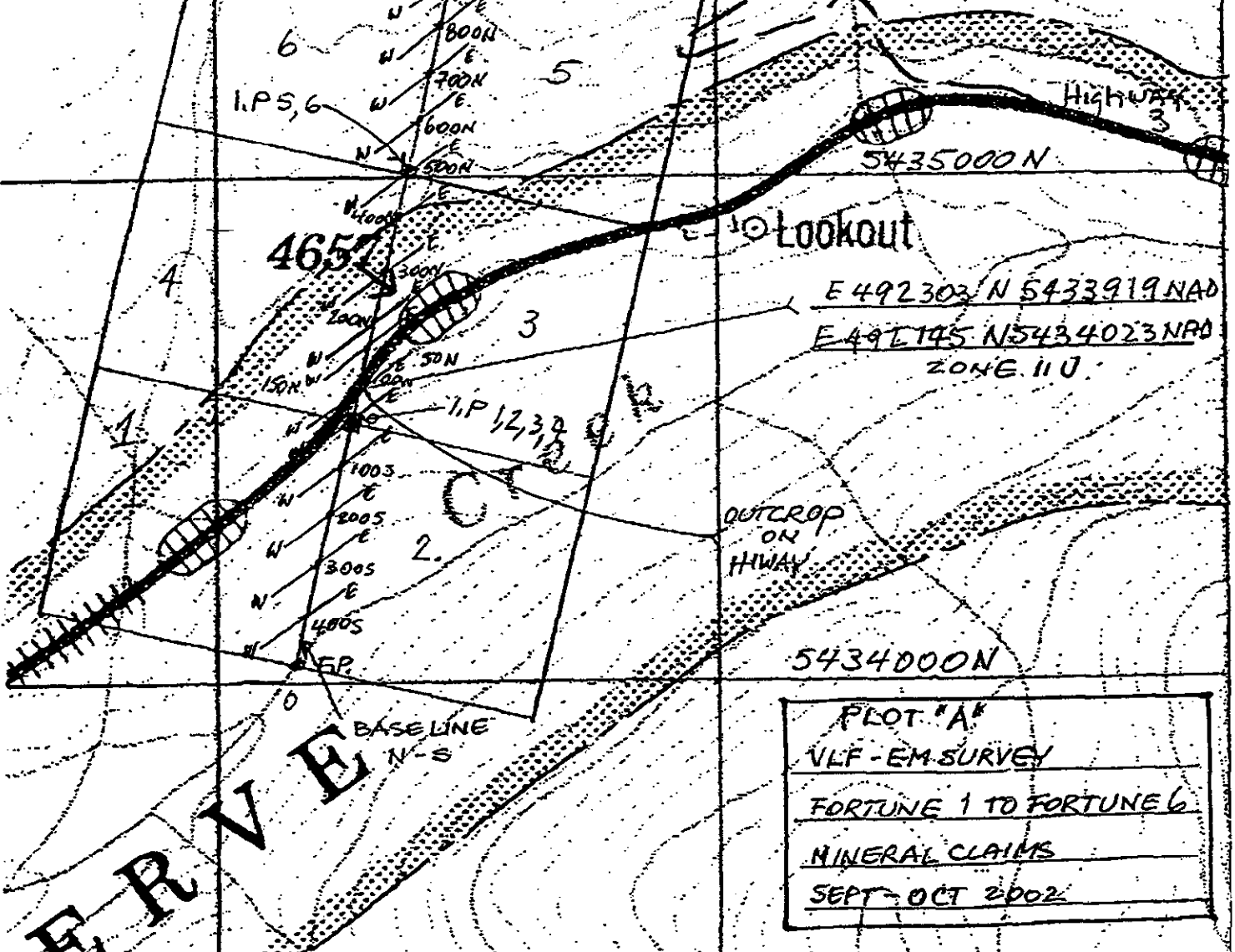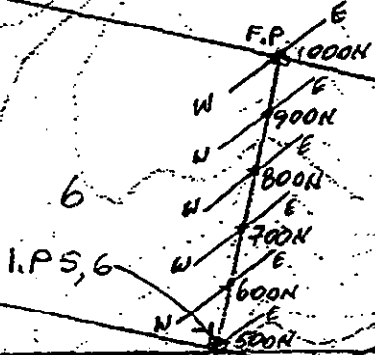
E 492303 N 5433919 NAD
E 491145 N 5434023 NAD
ZONE 11 U

OUTCROP
ON
HIWAY

5434000 N

PLOT "A"
VLF-EM SURVEY
FORTUNE 1 TO FORTUNE 6
MINERAL CLAIMS
SEPT - OCT 2002

PLOT "B"
VLF-EM SURVEY
FORTUNE 7 TO 18
MINERAL CLAIMS
SEPT OCT 2002

481000E

482000E

5b(i)

NOTE : EACH EAST—WEST
LINE HAS 61 STATIONS

3
-6

2168

Burner
Sawmill

POSITION OF
FORTUNE
7, 8 L.P

NTS MAP
82 F 3
NAD 27
E 0482572   NAD
N 5443029   NAD
E 0482652   NAD
N 5442820   NAD
ZONE II U

Woodchuck

N

5443000N

I.P. FORTUNE 7,8

I.P FORTUNE
13,14

Sawmill

LOCATION OF
GRAPHITE
SAMPLE

Dump

500 W
900 W

E 50
E 100
E 150
E 200

13   14

500 W
500 W
500 W
500 W
500 W

E 2505
E 300 S
E 350 S
E 400 S
E 050 S
E 500

L.P
15, 16

500 W
500 W
500 W

550 S
600 S

100 E 1, P
100 E 9, K

15   16

S 442000N

BASELINE
N - S

SURVEY
13 LINE
@ 10 MSP
793 STA

I.P
17,18

9   10

I.P
11, 12

17   18

I.P. 17, 18   I.P. 9, 10

11   12

2081

BC FORTUNE 7-18

FORTUNE 1-6

UNIT #

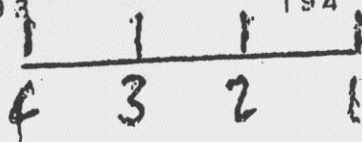| 7 | CAIB FORM. |
6	RENO FORM
5	QUARTZITE RGE FORMATION
(F)	FOSSILS
19b	NELSON PLUTONIC ROCKS
✱	MICROWAVE TOWER

49°00'

117°00'

15'

KM

4 3 2 1

MILES

MAPPING BRANCH

Wheel Loaders | 910-950B Dimensions
• With GP Bucket

◆ Varies with Bucket Size — Refer to Performance Data.

- 6 -

MODEL:	910 General Purpose 1.0 m³	1.25 yd³	910 High Lift General Purpose 1.0 m³	1.25 yd³	920 General Purpose 1.34 m³	1.75 yd³	930 General Purpose 1.72 m³	2.25 yd³	950B General Purpose 2.4 m³	3.0 yd³
A Height to top of stack	2.73 m	8'11"	2.73 m	8'11"	3.10 m	10'3"	3.20 m	10'6"	3.220 m	10'7"
B Height to top of engine compartment	1.82 m	6'0"	1.82 m	6'0"	2.01 m	6'7"	2.07 m	6'9"	2.265 m	7'5"
C Height to top of ROPS	3.02 m	9'11"	3.02 m	9'11"	3.05 m	10'0"	3.14 m	10'3.5"	3.470 m	11'5"
D Hinge pin height at carry position	400 mm	15.8"	493 mm	19.4"	370 mm	14.6"	376 mm	14.6"	508 mm	20"
E Minimum dump clearance at full lift	2.44 m	8'0"	2.692 m	8'10"	2.74 m	9'0"	2.79 m	9'2"	2.900 m	9'6"
F Hinge pin height at full lift	3.08 m	10'1"	3.33 m	10'11"	3.55 m	11'7"	3.65 m	11'11"	3.900 m	12'9.5"
G Maximum overall height	4.08 m	13'4"	4.34 m	14'3"	4.60 m	15'0"	4.83 m	15'10"	5.100 m	16'9"
H Maximum digging depth	79 mm	3.1"	114 mm	4.6"	66 mm	2.6"	86 mm	3.4"	75 mm	2.95"
J Machine center point to rear axle	1.17 m	3'10"	1.17 m	3'10"	1.27 m	4'2"	1.37 m	4'4"	1.590 m	5'2.6"
K Wheelbase	2.34 m	7'8"	2.34 m	7'8"	2.54 m	8'4"	2.75 m	9'0"	3.180 m	10'6"
L Radius of wheel	635 mm	25"	635 mm	25"	640 mm	25.2"	680 mm	23.75"	750 mm	29.4"
M Maximum overall length	5.74 m	18'11"	6.05 m	19'10"	5.9 m	19'5"	6.27 m	20'7"	7.244 m	23'9"
N Reach at full lift	885 mm	34.8"	917 mm	36.1"	762 mm	30"	860 mm	33.9"	1,040 mm	3'5"
O Maximum rollback at maximum lift	61°		64.3°		65°		65°		59°	
P Maximum rollback at carry height	45.6°		45°		44°		45°		46°	
Q Maximum rollback at ground	39°		39°		39°		40°		40°	
Ground clearance	406 mm	16"	406 mm	16"	335 mm	13.2"	338 mm	13.5"	427 mm	16.8"
Tread width	1.65 m	5'5"	1.73 m	5'8"	1.85 m	6'1"	1.93 m	6'4"	2.090 m	6'10"
Width over tires	2.03 m	6'10"	2.14 m	7'1"	2.26 m	7'5"	2.39 m	7'10"	2.670 m	8'9"

Summary of Inferred Amorphous Graphite Reserves Deposits found,

Location	Amount found
1. Salmo Dump -	6,600,000 tons
2. Under, Hi-way No. 3A	77,000 tons
3.	

Totals Found 6,677,000 tons

Equipment Productivity and Cost Predictions,

Following are copy's from a Caterpillar Performance Handbook of the outputs that can be expected from specific pieces of equipment that might be used to mine and haul the Graphite ore from the various locations where it presents its self. Firstly, on the following page – 8 – is Cat's performance sheet for some of it's various sizes of Push-Cats.that we might use to push-back the layers of gravel over-burden lying over the blocks of Graphite. (See in particular – Plot B at the back of this report)

We have presumed an Average Dozing Distance of about 30 M's using a D9 with a U blade. As the reader will, easily see, this situation will give us an Estimated production of 1,400 Lm^3 /hr.

Our calculations presume an average depth of over-burden at 15 ft. or 5 meters of depth. We are basing these volumes on Claim dimensions of 500 m's by 500 m's this will reduce to 500 x 500 x 5 = 1,250,000 m's or 893 hours, which reduces to 18 hrs per claim. For the 10 claims that, we have to uncover here, we then an indicated need for push Cats for 180 hours, or for say, 2 week for two machines devoted to this work. The replacement of that gravel will require a similar two weeks duration. Estimating, based on an hourly rental rate of $ 200.00 per each.

We feel comfortable in predicting total costs based on use of Two Cats removing and replacing gravel for 4 Cat-weeks, for a total cost of say $ 32,000 dollars.

More duration's predictions follow here for the Time expected to shave off the layers of Graphite and load then into trucks to haul them into a small storage yard in Salme. Based on hourly production figures spelled out on pages 9 – 11, we are forecasting a need for a wheel loader and trucks for say, four weeks, at $ 4,000 per each totaling $ 16,000 for this work.

The Total of costs for removing the over-burden are predicted above to came to $ 32,000, while digging out the blocks of Graphite has been guessed at $ 16,000. These two totals aggregate $ 48,000 of over-all costs.

We have not predicted costs to do an open-pit mine for the two – veins crossing Highway # 3A, as we have concluded that the 77,000 M's^3 that we believe are contained there, will not pay enough to merit opening this workup and shipping the graphite off for processing.?

Wheel Loaders | 910-950B Dimensions
• With GP Bucket

◆ Varies with Bucket Size —
Refer to Performance Data.

- 9 -
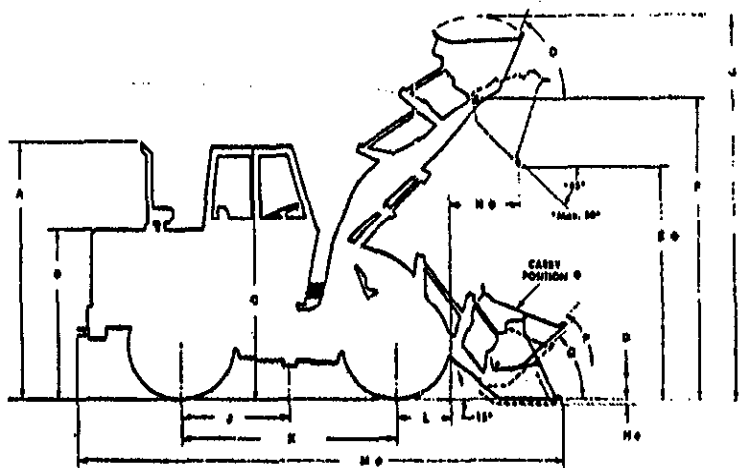
		910		910 High Lift		920		930		950B	
MODEL:		General Purpose 1.0 m³	1.25 yd³	General Purpose 1.0 m³	1.25 yd³	General Purpose 1.34 m³	1.75 yd³	General Purpose 1.72 m³	2.25 yd³	General Purpose 2.4 m³	3.0 yd³
A	Height to top of stack	2.73 m	8'11"	2.73 m	8'11"	3.10 m	10'3"	3.20 m	10'6"	3.220 m	10'7"
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	Tread width	1.65 m	5'5"	1.73 m	5'8"	1.85 m	6'1"	1.93 m	6'4"	2.090 m	6'10"
	Width over tires	2.03 m	6'10"	2.14 m	7'1"	2.26 m	7'5"	2.39 m	7'10"	2.670 m	8'9"

Z-bar linkage on 950B

Loose Material Size   *Fill factor*
  Mixed moist aggregates 95-100%
  Uniform aggregates up to 3 mm (1/8") ... 95-100%
  3 mm (1/8") to 9 mm(3/8") 90- 95%
  12 mm (1/2") to 20 mm (3/4") 85- 90%
  24 mm (1") and over 85- 90%

Blasted Material
  Well blasted 80- 85%
  Average 75- 80%
  Poorly blasted* 60- 65%
    *with slabs or blocks

NOTE: Fill factors on new Wheel Loaders can be greater than 100% due to improved loadability, buckets and greater rackback angle, plus new Z-bar linkage.

Example:

12 mm (1/2") material and 3 m³ (4 yd³) bucket.
.90 x 3 m³ = 2.75 Loose m³ delivered per cycle.
.90 x 4 yd³ = 3.6 Loose yd³ delivered per cycle.

NOTE: Check the static tipping load on the specific machine to determine if bucket load is in fact a safe operating load.

Bucket Selection

$$Tons\ Required/Cycle = \frac{Tons\ Required/Hour}{Cycles/Hour}$$

$$Kg\ (Pounds)\ Required/Cycle = Tons\ Required/Cycle \times 907\ kg\ (2000\ lb)$$

$$Volume\ Required/Cycle = \frac{kg\ (Pounds)/Cycle}{Material\ Weight\ kg/m^3\ (lb/yd^3)}$$

5. Machine Selection

Required machine capacity can be calculated by multiplying the heaped capacity of the bucket selected times the loose density of the material. The following table can then be used to select the proper machine. It indicates recommended capacity of each machine.

RECOMMENDED OPERATING CAPACITY

910	1750 kg	3,750 lb
910 high lift	1580 kg	3,450 lb
920	2380 kg	5,250 lb
930	3050 kg	6,750 lb
950B	4200 kg	9,250 lb
966D	5500 kg	12,100 lb
980C	7000 kg	15,400 lb
988B	9600 kg	21,200 lb
992C	18 370 kg	40,500 lb
992C high lift	16 330 kg	36,000 lb

Bucket Selection Based on Rated Load
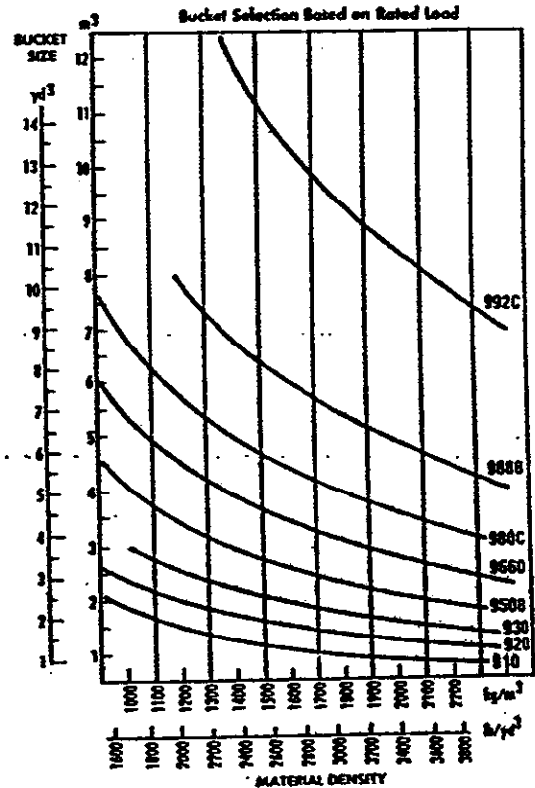
CYCLE TIME FACTORS

A basic cycle time (Load, Dump, Maneuver) of .45-.55 minutes is average for an articulated loader [the basic cycle for large loaders, 3 m³ (4 yd³) and up, can be slightly longer], but variations can be anticipated in the field. The following values for many variable elements are based on normal operations. Adding or subtracting any of the variable times will give the total basic cycle time.

	Minutes added (+) or Subtracted (−) From Basic Cycle
Materials	
— Mixed	+.02
— Up to 3 mm (1/8")	+.02
— 3 mm (1/8") to 20 mm (3/4")	−.02
— 20 mm (3/4") to 150 mm (6")	.00
— 150 mm (6") and over	+.03 and Up
— Bank or broken	+.04 and Up
Pile	
— Conveyor or Dozer piled 3 m (10') and up	.00
— Conveyor or Dozer piled 3 m (10') or less	+.01
— Dumped by truck	+.02
Miscellaneous	
— Common ownership of trucks and loaders	Up to −.04
— Independently owned trucks	Up to +.04
— Constant operation	Up to −.04
— Inconsistent operation	Up to +.04
— Small target	Up to +.04
— Fragile target	Up to +.05

Using actual job conditions and the above factors, total cycle time can be estimated. Convert total cycle time to cycles per hour.

$$\text{Cycles per hour at } 100\% \text{ Efficiency} = \frac{60 \text{ Min.}}{\text{Total Cycle Time in Minutes}}$$

TRUCK LOADING

Average loader cycle times

910-950B	0.45-0.50
966D-980C	0.50-0.55
988B	0.55-0.60
992C	0.65-0.75

3. Required Payload Per Cycle

Required payload per cycle is determined by dividing required hourly production by the number of cycles per hour.

4. Bucket Selection

After required payload per cycle has been calculated, the payload should be divided by the loose cubic yard (meter) material weight to determine number of loose cubic yards (meters) required per cycle.

The bulk of material handled does not weigh 1800 kg/m³ (3000 lb/yd³), so a reasonable knowledge of material weight is necessary for accurate production estimates. The Tables Section has average weight for certain materials when actual weights are not known.

The percentage of rated capacity a bucket carries in various materials is estimated below. The bucket size required to handle the required volume per cycle is found with the aid of the percentage of rated bucket capacity called "Bucket Fill Factor."

The bucket size needed is determined by dividing loose cubic yards (or meters) required per cycle by the bucket fill factor.

$$\text{Bucket size} = \frac{\text{Volume Required/Cycle}}{\text{Bucket Fill Factor}}$$

BUCKET FILL FACTOR

The following indicates the approximate amounts of material as a percent of rated bucket capacity which will actually be delivered per bucket per cycle. This is known as "Bucket Fill factor."

-12-   (1) Wee⸱

Sept. 23rd 2002

Report on the Fortune claims in the Nelson Mining Division.

Location of parking area below the face, where the graphite veins occures. 11U 0492303 UTM 5433919

We cut out all brush on the steep trail to the rockface, it was heavily overgrown with alder and snowbrush.

Started to dig in to expose the graphite vein on very steep side-hill, we are about 30 to 50 Meters above the highway

We collected five graphite samples on the first vein, but it needs more work to expose the width of the whole vein. The location of the samples are 11U 0492282 UTM 5433967. The samples are taken across the vein because quality varies.

The second vein is buried deeper and needs more work with a pick and shovel. Further up the mountain the veins disappear under the overburden and we will make then an attempt to expose them after the bottom is done.

We went to the claim post below the highway, where the grid for the geo-physical survey starts. The stations along the base-line will be 100 Meters and the cross-line spacing will be 6 Meters to get a good signal signature.

Sept. 24th 2002

Report on the Fortune claims 1 to 6 in the Nelson Mining Division.

Worked on the Number 1 Vein (West Vein) exposed all of the vein. Collected a further ten samples. The width of this vein is approximately 1.25 Meters (4 feet).

Then, the Number 2 Vein was also exposed and it's width is also 1.25 Meters. But the width of both veins vary and they swell and pinch from about a foot to five feet across.Ten samples were also collected from this vein.

Laid out the Baseline coincident with the claim line. The stations were placed at 100 Meter intervals and the clinometer was used to correct for the steepness of the slope.

We plan on going up to the Slocan early (leave at 5 45am) on Wednesday morning, if weather permits, to climb up the ravine to see if we can find any graphite bands which cross the mountain opposite the Main deposit (Mount Rinda). This is the location which John Rapski and I wanted to reach, but bad weather prevented us from going there.

-14-

Sept. 25th 2002

**Report on the prospecting traverse of the Superior
Claim Group in the Slocan Mining Division.**

We left early and arrived at the bottom of the gully
which we climbed up the very steep incline to reach
the waterfall and wentbeyond where we thought the
graphite band was. But we only found loose and small
pieces of graphitebearing rock indicating that higher
up there must be graphite in sitsu. We searched up the
gully for some distance but none could be found in sitsu.

The highest point reached was at 11U 0445882
UTM 5509106. The altitude was 1785 Meters.
On the way down, we came across the LCP of the
Mother Superior Claim.We saw no rock which bore
any graphite on the way down the slope since we were
below the strata whichhas graphite.

On the way back we stopped at the Lemon Creek Lodge
and picked up the Winkie Drill and most of the drill steel
and what else belonged to the drill. We told Barry that
probably next week the trailer would be picked up by
Mikes RV and be moved to Salmo. We contacted Mikes
RV and they need at least several days notice, since they
have to move many trailers, because people want them
from their holiday locations on their lake properties.

The location which we tried to find is further west and
along the claim line of the 2-post claims which I originally
staked. This makes it necessary that we go up there again,
if we want to come across the band which I seen when I
staked originally.

Sept. 26th 2002

An extra six samples were taken from each of the veins, because once snow falls it will be almost impossible to collect more.

The base line to the North was extended to 950 North with stations every 100 Meters and substation intermittently at 50 Meters. The terrain is very steep and it reaches up to 40 degrees of slope. The base line crosses the Highway between 50 and 120 Meters, measured from the IP of the Fortune 3 and 4 claim posts.

The VLF - EM 16 will be used once all the cross lines are in place.

Tomorrow we will bring everything which was left at Lemon Creek Lodge. Dismantle the roof on the trailer and bring the planks and the tarps back, so we can put it over the trailer to protect it from the weight of the snow so it will not collapse.

Also, everything which is stored under the trailer (water hoses and miscallenous.) will be brought to Salmo as well. Then, we can notify Mikes RV to move the trailer, so that we know when it is coming here and we can be present to place it in the back of my property. If needed on the job site than I canhaul it from here to the job site.

The Winkie Drill and all steels and accessories will all be at Salmo and be available when needed.

-16-

Sept. 27th 2002

This morning we went to the Lemon Creek Lodge and loaded on all of the remaining equiment and materials.

In order for the trailer to be towed by Mikes RV, we took off the roof structure and also the tarps and loaded these materials and brought them back to Salmo.

We stopped at Mikes RV in Castlegar and gave them our instructions and a sketch of the location in Salmo where to drop off the trailer. We gave the lady (Tracy) your Toronto phone and fax numbers, so that she can get your authorization for moving the trailer.

In Nelson, we went to the Government Agent to register the Koch 12 and 13 Mineral claims, which will join the Superior Group and the Koch Group together for the purpose of distributing the Assessment credists to any of the claim in the whole group.

Tomorrow, we will start with the VFL - EM 16 survey on the Fortune 1 to 6 claims. In order to establish the cross-line spacing we have to take some reading to see how the response of the instrument is.?

If the response is favourable, then we can finish the grid lay-out and then do the rest of the survey.

-17-

Sept. 28th 2002

We went to the property and started to collect data with
a VLF - EM 16 survey on Fortune 1 to 6 claims.

Before commencing the survey, we checked for the most
suitable submarine signal station. We chose Seattle because
of the strenghts of the signal and the closeness to the direction
to our base-line.

We started with the first line south of the Highway. The
station was N 50. The line to the west was 10 of ten Meter
stations and to the east was 9 including the 0 station of the
base-line.

Then, we went to the north side of the Highway and took
the same number of station readings. This line is the
N 100 line. After all of the readings were taken we went up
the cliff to line N 150.

We took the same number of readings and all data was re-
corded in the field book.

Upon analysis, it showed that there was a strong conductor
along the highway which turned out to be probably a telephone
duct.

The first and third line show a small crossover where the veins
are but were still influenced by the proximity of the buried
duct.
The next lines should get away from this anomaly and should
give a more positive indication of the location of the conductive
buried body, likely the extension of the graphite veins.

Sept. 30th 2002

This morning, we went up to the Fortune claim group, when we arrived there was snow on the ground up there and higher up were we worked on Saturday, up to 10 cm of snow. The instrument cannot be used in such conditions because moisture would damage the circuitry.

It is a requirement of the Mines Right Of Way Act that the surface rights holder is notified if any work is done on such a property.

The Regional District of Central Kootenay in Nelson own's the surface rights to the dump. Part of the Fortune 7 to 18 is located on this land. We went in to Nelson to get a copy of the Mineral Title Map from the Government Agent and after that we went to the offices of the Regional District to meet Mr Reinhard Trautmann, who is the Services and Waste Managment Supervisor, to give him notice of our work program. He said that we have to send him a formal letter to that effect, and we should have no problems since we won't create any ground disturbance (no power equipment will be used).

Upon returning to Salmo we started to prepare all the samples for shippment. They each have to be split into three parts and numbered and cross-referenced to the map locations. We also transcribed the GPS stations on to the daily report to easily indentify the sample locations later.

Tomorrow, if the weather permits, we will go up to the Fortune 1 to 7, otherwise we will start with the grid on the lower claims (Fortune 7 to 18). We wrote and faxed the requested letter by Mr. Trautmann to him this evening.

Oct. 1st 2002

This morning we went to pick up ten samples from an excavation which was done two years ago. These materials were stored at a site away from the Landfill stite. We took ten samples of the best material, we could find, at that time.

These materials were collected by Klassen two years ago when the excavation was done at the dump site to sample for leachate by the RDGK (owners of landfill surface). A week later this pit was filled in with refuse and gravel.

The site staff was notified by their Supervisor Mr. R. Trautmann and they welcomed us to come on to the site and do our work-program.

We went to the filled in pit and took some readings with in-strument to see if we had any interference from the electrical fence which is around the site to keep bears out. There was no noticable interference, so we proceeded with the layout of the base-line for the grid. We spaced the stations 100 Meters along the baseline with substation at 25 Meters. A total of 21 stations were marked today. Also, at each of the stations, reading were taken with the VLF - EM.

Tomorrow, we will be working on the Fortune 1 to 7 because the weather turned warmer and the snow should be gone below the Highway were we plan on taking the VLF - EM readings.

Oct. 2nd 2002

This morning, we went up to the Fortune 1 to 7 claims
and started taking readings with VFL - EM on the south
and lower side of the Highway. The lines along the base-
line were extended to the east and west.

Lines 0, 100 S, 200 S, 300 S, and 400 S all extend ten
stations to the east and west and are each at 10 Meter
intervals.

Line 0 is below the Highway and on very steep terrain.
Line 100 south is along an old logging road which is grown
over with dense young alders. As we went down, the slope
decreased to almost flat, and mature old-growth forest
prevailed.

The VLF - EM readings were all of good quality and were
all entered in the field book. Once, all reading are taken,
then they will have to be processed to see if there are any
conductors indicated, this may show the possibility of the
down hill continuation of the graphite veins.

We hope that we can continue tomorrow on the upper side
of the Highway, since we may have only a few more days
of good weather. The next snowfall could be so large that
we might not be able to take any readings because the
terrain is consistently too steep.

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Oct. 3rd 2002

This morning the US Army Submarine Signal station
was shut down for maintenance, therefore no VLF - EM
signal was available this is done every week.

We went to the Fortune 7 to 18 claims at the land fill site
and continued the survey grid which we started two days
ago.

The base-line was extended from 525 S to 1300 S, because
that is where the Fortune 11 and 12 claims meet an other
claim boundary. The spacing of the stations are 100 Meters
apart with substation being placed at 25 Meters.

Then at 270 degrees from the base-line at 1300 S, we put
in a cross line with stations marked at 25 Meters intervals.
This line ended at the tailings pond at 640 Meters where
it met up with the lake.

Tomorrow we will be back up at the Fortune 1 to 7 claims
because the VLF - EM transmitting station is on again on
Friday.

The forecast for the weather is good again and should be so
until the weekend.

The next few day will be routine and we will be only using the
instrument and recording the readings.

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Fri. Oct. 4th 2002

This morning we went up to the Fortune 1 to 7 claims and started taking readings at the N 200 station at the base-line.

From the 200 N station, we took readings along the base-line every 50 Meters until we reached the 600 N station. From there, we took VLF - EM readings every station east and west of the base-line at 10 Meter intervals for 100 Meters. The cross lines are 100 Meters apart along the base-line.

Five cross lines were done, with a total of 109 readings taken and entered into the field book.

The slope is steep and covered with mature pine. Tomorrow, we keep on taking readings higher up from 650 N to 950 N and then, take readings on the cross lines.

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Sat. Oct. 5th 2002

Early this morning, we went back up to the Fortune 1 to
7 claims and continued with the VLF - EM survey.

We started at 650 N up the base-line to 1000 N which is
about 75 Meters past the Fortune 5 and 6 north boundary,
and took readings 50 Meters along the base-line.

The cross lines were again at 100 Meters along the base-
line and VLF - EM readings were taken at 10 Meters inter-
vals.
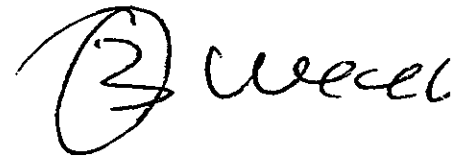
This completes the VLF - EM survey up here and now only
the data has to be reduced and plotted. The results of this
should demonstrate the extent of the conductor (graphite).

We should be able to reduce the data and produce a map
within a few days. For this, we may need the assistance of
an Engineer familiar with the processing of this field data.

George Addie P. Eng has directed us, with-out charge, on
the first few days of the field data aquisition and should help
us to produce the map.

Tomorrow Horst will do the data reduction and then George
will help him in producing the contour map.

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Mon. Oct. 7th 2002

We have processed the survey data from the Fortune 1 to 7
claims. The result show an almost continues conductor, which
extends on both sides of the highway along the strike from
400 S to 1000 N. The total lengths of the indicated strike is
1,400 Meters. In several places there are two or more veins
that run parallel. Also, they might extend beyond the existing
claim boundries, to the north and south.

The conductors shown, that we have drawn on to the map
from the VLF - EM 16 survey, indicate that these veins may
extend beyond the existing out crop and also might be
graphitic.

In our opinion, we estimate the volume in these claims to be
about 24,000 tons. This is a conservative estimate and the
amount could be a lot greater. To say that with more
confidence further work such as drilling, assays and a study of
the geological structure will have to be done.

The grade and quality can only be corroborated once the
assays are completed. There-fore, we should send the samples
as soon
as possible to Ashbury Graphite in the USA. Please indicate
that you want this done, and also by what means,(bus or
transport)? The best time for this would be on Thursday Oct.
10th since the signal is down all that day.

Today, we worked at the lower properties (dump) taking more
VLF - EM readings, tomorrow we will continue with this
survey.
Please find enclosed the VLF - EM map (in three parts) from
the Fortune 1 to 7 claims, which you can join together yourself.

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Tue. Oct. 8th 2002

Report on the Fortune 7 to 18 claims.

Today, we continued with the VLF - EM survey on the 250 S, 200 S, and 150 S cross lines. 152 readings were taken and recorded. Tomorrow we will continue with this survey as planned.

The phone number of Mike's RV Ranch is 250 365 5741, or the internet address: www.mikesrv.com

We called Moses Goldenberg and left word at the place which he left at the Chamber of Mines to contact him, and are now waiting for his call.

We need the shipping instructions, the address for Ashbury, how to ship the graphite samples (collect or prepaid ?) and arrangements have to be made with ACME Labs in Vancouver for billing for the assays.

We anticipate that we will be finished with the survey by this weekend, and then we do not need Diana Morton anymore.

As far as the Slocan goes, we have to see how the weather develops. Also hopefully Moses will have contacted us by then and is able to come along on the climb.?

I will tell Moses to contact you to make the arrangements for pay and also how much.

-27-

Thursday Oct. 10th 2002

Report on work done:

Today, we packed all samples into six pails, two for each,
(Ashbury, ACME and WWGP). The pails are almost full and
are ready to be shipped. We assume that the Ashbury pails go
by Truck Freight.? If so, they have to be shipped from the
Castlegar Terminal and I have to prepay the freight. That's the
way we sent the samples last time. (coreboxes last fall),

The ACME samples can be shipped by bus to Vancouver and
they will pick them up at the bus terminal.

What should we do with the WWGP samples? Hold them here
or do you want them shipped to Toronto.?

We are working on the reports and have been getting some
more maps copied to include in the reports. Also we are
tabulating the data we have collected so far on the dump,
so we can do the mapping later.

We will relay your message to Moses that he should call you
collect, as soon as possible.

The next two days we will be doing the VLF - EM survey to
complete the field work on the Fortune 7 to 18 claims.

Fri. Oct. 11th 2002

Report on the Fortune 7 to 18 claims.

Today, we took readings on the 450 S, 500S, and 550S cross
lines. The lenghts of the cross-lines were 500 Meters with
stations every 10 Meters. All readings were recorded in the
field book. Gordon started working on the report on the
Fortune 1 to 6 using the library computer.

We got your message that Mossess phoned you. Also that, you
want the pails for Ashbury Graphite to be shipped prepaid and
either by Purolator or Fedex? We are waiting for your call on
this matter.

We also found a Klohn Crippen report on the dump-site,
but it seems to only be a report concerning the surface waters
and probably is not of much use to us, except we may be able to
use some of the maps and cross-sections.

Tomorrow will be our last day on the dump site, we should
have
all of the readings done, as necessary to compile the presence of
any sub-surface conductors. This will aid us in defining the
extent of any conductors. With this information, an inferred
quantity and a volume can be specified.

We look forward to see on Wednesday and hope that by that
time the weather is still on our side.

Sat. Oct. 12th 2002

Today, we finished taking the VLF - EM readings. Now we have to reduce the data, plot the results and make the maps. We did extend all the lines 100 Meters to the east and added the 600 S line. We took a total of 181 station readings.

In total between the Fortune 1 to 6 and Fortune 7 to 18 claims, we recorded 1035 data stations. We will make a map for each area, indicating the conductive areas showing the zones which present an anomaly, which is perhaps graphite. Since we have existing known areas with graphite. We presume that these extensions will also be graphite bearing.

We received your call and are holding off with the shipment of samples, until directed to do so by you.

Mossess called and said that he has a short job for Sunday, Mon-
day and possibly Tuesday, after that he would be available. That will give us time to complete the reduction of data and transcribe field notes so that we can plot the maps and compile the report.

Today was the last day of work for Diana Morton and she did her work to our complete satisfaction.

We will should know your agenda for Wednesday, so we can insure that everything is in order. Are you here for one or two days.? What about transportation, for you.? Are there more than you coming, and are we still walking up to the Panama.?

Report on the work to Fortune 7 to 18 claims done.
Oct. 14th and 15th 2002

We been working on the report and maps and data reduction all day yesterday and today. We also shipped the samples to Ashbury via Purolator. Also, 2 pails were shipped to WWGP in Toronto to your office via Greyhound.

Before, we could plot results obtained with the VLF - EM survey, we had to manipulate 1150 station readings. After that, all the results had to be transcribed on the map blank. This permitted us to finish the map. Several trips for copying were necessary to the local library since that is the only place with a modern copier which can handle the 11" x 17 inch paper format.

We finished the map showing several buried conductive zones, all bearing NE to SW. The location of the sample site coincides with one of the indicated lenses. Across the property, there are about five major trends, they alingn in the NE to SW direction as reported above. We are faxing herewith copies of that map.

We project that after we have calculated inferred quantities, we may be able to suggest that graphite underlies about 20% of the surveyed area. Projecting the trend to the SW, it might be much larger, however that cannot yet be determined.?

Tomorrow, we will be going to the Superior group in the Slocan, where we expect to work on the south side of the main showing. This is crystalline graphite and it should give us a good response on the VLF - EM 16 instrument. This is recommended by George Addie, since he has had good success himself in finding graphitic veins in this type of geological setting.

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Report on the Superior Group of claims

Oct. 17th 2002

Today, because Seattle was not in service, we used the Cutler
Main station for the survey. Also, the Hawaii station, was
working but it quit at about 12:30 pm and no more signals
were
being received. We have the readings but have not been able to
do the data reduction, as yet.

The readings on the other frequency is corroborated by the
later readings that we took this pm. This indicates that there
is probably a long continuous layer and since it is where the
graphite is, most likely the graphite also goes the full lenght
of the indicated conductor. If this is the case, the tonnage
in the main showing could be a total up to 30 Millon tons.
This would be the maximum provided that the dimensions
of the graphite bed measures about 1000M by 30M and could
be mined to 1000M downdip. This is a maximum estimate and
assumes that all the mined rock would be ore grade, and that
the spoil (tailings) would be filled back into the stopes.

Tomorrow, we take the readings on the upper (200W) line
and then we take the readings for the reminder of the time
towards the Frieda creek from the zero base line, to the north.

Enclosed herewith is the statement of some of the expenses
which were paid out.

33.

Report on the Superior group of claims

Oct. 18th 2002

This moring, we did the survey on the 200 S line from 0 to
780 S at Knight Creek. Station spacing was 10 Meters.

After that I took readings from the Baseline (0) north to
410 N which ends at Frieda creek.

This was the furtherst-west line and also the highest line,
which was brushed out last year by myself and Mossess.

Tomorrow we will finish the zero and 100 W line, which
both end at Frieda creek. Then, if time permits take
readings on the Baseline from the main showing down to
Hoder creek which is in an easterly direction.

The data has to be processed by Gord then in Toronto and
also the map composed, which will be part of the Assessment
report. The pictures from the Fortune claims have to be
taken at a later time. possibly next week if weather permits.

At the Superior Group the grid should be extended east of
the main showing for at least three or four lines at 100 M
spacing. This would allow us to see if there are more con-
ductors which could be also graphite bearing. The whole
area around the Main showing has not been properly eva-
luated and explored. This is the best place of all the Group
to concentrate on and probably will yield the best results.

Report on the Superior Group

Oct. 19th, 2002

Today, we went to the Slocan up Hoder creek to do the
0 and 100 West line both ending at the Frieda creek.
81 station were read and recorded.

This completes three "complete" lines from Knight Creek
to Frieda Creek. The data has to reduced so a map can
be drawn. It seems that, we have long conductors strech-
ing from Frieda Creek all the way to Knight Creek.

Below the main showing, there is at least one more band
of graphite bearing marble and possibly more layers, but
because of the overburden they are not obvious. To find
out, the grid shoud be extended and more geophysic should
be done. Also the showings should be trenched across the
strike so that the true widths can be established. This is
necessary to make an informed estimate of the volume or   —
tonnage of the deposit. It seems the more we look, the more
places show up where there is graphite bearing rock.

As far as tonnage is concerned, at the present time with the
information we have, our speculation is that there is a further
chance for another 30 Million tonns, if the lower bands and
the bands North of Frieda creek and also north of the creek
which is about 2 km further north of Frieda creek are inclu-
ded and they all have economic grades, these quantities
might prove very possible.

VLF readings, for–
Fortune 1 to 6 for VLF EM-16 - Base Line Stations

(1)

FORTUNE I-6
VLF EM-16
BASELINE STATIONS

21

2002 Oct. 4 Fortune 3/4 Hwy 3

Baseline 12° Azimuth

Line   Station In Phase Quad

X	Y	Z'	Z"			
1°	200N	0	+38	+6		
	250N	0	+22	0		
	300N	0	+28	+11		
	350N		+30	+10		
	400N		+29	+9		
	450N		+38	+9		
1828	595n					
FP 3/4 ⫿ FP 5/6 GPS Loc. Δ324				492384	543433	
Δ323	500N	1015m	+43	+10	492374	543435
	550N		+42	+7		
	600N		+38	+6		

2002 Oct 5   Baseline 2° ......

Line X   Station In Phase Quad

X	Y	Z'	Z"	
	650N	0	+30	+5
	700N		+27	+6	cross creek
	750N		+25	+9
	800N		+38	+13
	850N		+29	+9
	900N		+14	+9
FP5/6 Δ325		+.....	492457	5434790 1790 m
	950N		+9	+7
	1000N			

② VLF—EM 16

LINE 400S

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2002 Oct. 2 Fortune 3/4 Hwy 3 Creston

Line	Station	In Phase Z'	Quad Z''
IP3/4 400S	0	± 0	$+1$
	E 50°(10)	$+4$	-2
	(20)	$+4$	-1
	(30)	$+4$	-5
	(40)	$+2$	-6
	(50)	$+3$	-5
	(60)	$+4$	-5
	(70)	$+7$	-5
	(80)	$+10$	-5
	(90)	$+11$	-5
	(100)	$+12$	-4
IP3/4 400S	230° (10)	$+5$	-2
	(20)	$+3$	0
	(30)	0	0
	(40)	0	-1
	(50)	$+2$	$+2$
	(60)	-2	$+2$
	(70)	0	0
	(80)	-2	-3
	(90)	-3	0
	(100)	-3	0

18 Fig. 4

2002   Oct. 2   Fortune 3/4 Hwy 3. Creston

Line	Station	In Phase	Quad
X	Y	Z'	Z''
IP.3/4 300S	0	+5	-2
E 50°	(10)	+15	-2
	(20)	+15	-3
	(30)	+14	-5
	(40)	+15	-3
	(50)	+12	-5
	(60)	+12	-8
	(70)	+15	-11
	(80)	+16	-9
	(90)	+20	-7
	(100)	+20	-5
IP3/4 300S @30°	(10)	+15	0
	(20)	+14	-1
	(30)	+14	-1
	(40)	+14	+1
	(50)	+12	+2
	(60)	+10	+2
	(70)	+6	-1
	(80)	+5	-1
	(90)	+3	0
	(100)	+5	-2

④

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Oct 2   Fortune 3/4   Hwy 3 Creston

Line	Station	In Phase	Quad
X	Y	Z'	Z"
183/1 200S	0	+30	-2
	50° (10)	+30	+1
	(20)	+35	+1
	(30)	+40	+3
	(40)	+43	+3
	(50)	+46	+5
	(60)	+45	+4
	(70)	+38	+3
	(80)	+30	0
	(90)	+27	+1
	(100)	+26	+2
1P 3A 200S	230° (10)	+28	-4
	(20)	+26	-2
	(30)	+28	+1
	(40)	+32	-1
	(50)	+30	-3
	(60)	+28	0
	(70)	+24	+1
	(80)	+23	0
	(90)	+22	+3
	(100)	+23	+1

FORTUNE 1-6

16

| 2002 Oct 2 | | Fortune 3/4 | Hwy 3 Creston |

Line	Station	In Phase	Quad	
X	Y	Z'	Z''	
IP3/4 100S	0	+45	-2	
	80°(10)	+35	+1	
	(20)	+30	-4	
	(30)	+27	-4	
	(40)	+30	-3	
	(50)	+30	-1	
	(60)	+28	-1	
	(70)	+21	-3	stream
	(80)	+23	+-2	limestone
	(90)	+24	+3	
	(100)	+25	+3	
IP3/4 100S	230°(10)	+50	-3	old road
	(20)	+53	+2	
	(30)	+54	-2	
	(40)	+47	-2	
	(50)	+45	-3	
	(60)	+45	-4	
	(70)	+42	-4	washout
	(80)	+38	-2	
	(90)	+39	-3	
	(100)	+43	-1	

Fortune 6

VLF-EM -16

LINE O

(6)

15

2002 Oct. 2   Fortune 3/4   Hwy 3
                        ZERO LINE

| Line | Station | In Phase | Quad |
X	Y	Z'	Z"
IP 3/4 O	O	+45	−3
ZERO	E 50° (10)	+43	−3
	(20)	+47	−1
	(30)	+47	−3
	(40)	+43	−1
	(50)	+48	−1
	(60)	+45	−2
	(70)	+47	−1
	(80)	+45	−6
	(90)	+45	−7
	(100)	+45	−6
IP 3/4 O W 230°	(10)	+57	−4
	(20)	+55	−5
	(30)	+56	−3
	(40)	+60	−4
	(50)	+58	−8
	(60)	+80	−1
	(70)	+84	+2
	(80)	+84	−4
	(90)	+80	−4
	(100)	+74	−3

(7)

FORTUNE 1-6
VLF EM 16
LINE 50N

9

△316, 2002 September 28, Saturday, ...
Hwy 3 Fortune 1-6, △316 .... 140m.
Trans Seattle 250° Bear N12E Face north

Line	Station	In Phase	Quad	Slope	Remarks
	X	Y Z'	Z"	°	
IP 3/4	50N 0	+65	−16	24	S edge of Hwy 3
IP 3/4	50N 236 (10)	+67	−14	0	south edge
IP 3/4	50N 236 (20)	+50	−13		
IP 3/4	50N 236 (30)	+50	−17		south edge
IP 3/4	50N 236 (40)	+50	−17		
IP 3/4	50N 236 (50)	+74	−16		
IP 3/4	50N 236 (60)	+70	−21		
IP 3/4	50N 236 (70)	+80	−24		
IP 3/4	50N 236 (80)	+84	−26		
IP 3/4	50N 236 (90)	+114			
IP 3/4	50N 236 (100)	+100			
IP 3/4	50N 56 (10)	+55	−21		10ft truck
IP 3/4	50N 56 (20)	+55	−26		20ft truck
IP 3/4	50N 56 (30)	+55 (+55)	−23 (−24)		road curve
IP 3/4	50N 56 (40)	+70	−32		
IP 3/4	50N 56 (50)	+70	−26		
IP 3/4	50N 56 (60)	+70	−24		
IP 3/4	50N 56 (70)	+78	−26		
IP 3/4	50N 56 (80)	+50	−24		
IP 3/4	50N 56 (90)				
IP 3/4	50N 56 (100)				

Ⓑ

FORTUNE 1-6
VLF EM 16
LINE 100N
SIGNAL DEGRADED FROM
CABLE ALONG HIGHWAY

10

Sat., 2002 Sept. 28

Hwy 3. Fortune 3/4 ip

ALONG HIGHWAY
TELEPHONE CABLE
within 3 meters

Line Station	In Phase	Quad	Slope(%)	Remarks
X Y	Z'	Z"		
IP 3/4 100N 0	−160	+20		N edge Hwy 3
230°(10)	−150	+20		base of cliff
230 (20)	−125	+20		
230 (30)	−125	+31		
230 (40)	−120	+34		
230 (50)	−105	+36		
230 (60)	−98	+35		
230 (70)	−95	+32		
230 (80)	−98	+34		
230 (90)	−86	+38		
230 (100)	−86	+30		
IP 3/4 100N 50 (10)	−150	+23		
50 (20)	−150	+15		
50 (30)	−	+17		
50 (40)	−170	+18		
50 (50)	−180	+17		
50 (60)	−180	+19		
50 (70)	−180	+21		
50 (80)	−180	+19		
50 (90)				
50 (100)				

⑨

11

2002 Sept. 28

Fortune 3/4 IP

Station In Phase Quad.

X	Y		Z'	Z''	
IP 3/4	150 N	0	+45	+20	above cliff
		230° (10)	+10	+14	cross above
		(20)	+10	+16	sample 1+2
		(30)	+8	+18	area
		(40)	+7	+19	
		(50)	+12	+19	
		(60)	+8	+20	ravine dry
		(70)	+15	+24	
		(80)	+15	+19	
		(90)	+13	+16	
		(100)	+10	+14	
IP 3/4	150 N	50° (10)	+58	+25	
		(20)	+55	+23	
		(30)	+53	+20	
		(40)	+57	+19	
		(50)	+55	+21	
		(60)	+55	+18	
		(70)	+57	+20	
		(80)	+53	+21	
		(90)	+48	+15	
		(100)	+50	+13	

⑩

26

2002 Oct. 4

Line	Station	In Phase	Quad
X	Y	Z'	Z''	
IP3/4 200	0	+38	+6	
"	E50 (10)	+50	+14	
	(20)	+78	+18	
	(30)	+88	+24	spring
	(40)	+86	+21	
	(50)	+80	+20	
	(60)	+76	+16	
	(70)	+74	+16	
	(80)	+70	+14	
	(90)	+67	+12	
	(100)	+65	+13	End of gridline
W230°	(10)	+24	+15	
	(20)	+19	+15	rock outcrop above
	(30)	+18	+18	
	(40)	+22	+20	
	(50)	+24	+24	
	(60)	+23	+23	
	(70)	+25	+22	rock outcrop
	(80)	+26	+21	
	(90)	+30	+23	Xsmall ravine at end
	(100)	+29	+20	End of gridline

2002 Oct 4   Lumby Geophysics

Line	Station	In Phase	Quad	
	Y	Z'	Z"	
IP1/4 300W	0	+28	+11	
E50	(10)	+32	+10	
	(20)	+35	+9	
	(30)	+37	+9	
	(40)	+37	+8	
	(50)	+46	+6	
	(60)	+84	+6	
	(70)	+94	+3	
	(80)	+94	+1	slope corr 2m
	(90)	+98	-1	5m edge of S1 creek
	(100)	+98	-3	S End of gridline
IP3/4 300N W230°	(10)	+28	+12	
	(20)	+27	+13	
	(30)	+29	+16	below rock bluff
	(40)	+30	+15	
	(50)	+30	+17	
	(60)	+33	+17	
	(70)	+35	+20	
	(80)	+35	+19	
	(90)	+35	+22	top of ridge
	(100)	+35	+21	End of gridline

⑫

FORTUNE 1-6
VLF-EM/16
LINE (NORTH)

24

2002 Oct 4   Hwy 3

Line	Station	InPhase	Quad.	
X	Y	Z'	Z''	
IP34 400N	0	+29	+9	
	E50°(10)	+29	+10	
	(20)	+27	+10	
	(30)	+29	+9	
	(40)	+33	+12	
	(50)	+40	+13	
	(60)	+30	+10	ravine S creek
corr 72	(70)	+33	+5	slope 45°
corr 86	(80)	+61	+4	slope 33°
corr 98°	(90)	+63	+7	
corr 110	(100)	+61	+2	End of Line
IP3/4 400N W230°	(10)	+35	+11	
	(20)	+40	+12	
	(30)	+42	+14	
	(40)	+45	+17	
	(50)	+43	+16	
	(60)	+44	+16	
	(90)	+45	+17	
	(80)	+43	+20	crossed ridge
	(90)	+44	+19	
	(100)	+45	+21	End of Line

(13)

23

2002 Oct 4   Aug 3

Baseline 12° Azimuth Gridline 50° Azimuth

Line	Station	In Phase	Quad	
X	Y	Z'	Z"	
IP S6 500N	0	+43	+10	$\triangle$ 323
	E50° (10)	+49	+1	Slope 0° across
	(20)	+40	+11	45° slope
	(30)	+40	+9	
	(40)	+42	+10	
	(50)	+42	+8	slope 335°
corr. 62	(60)	+37	+1	
corr. 74	(70)	+53	+3	
corr. 86	(80)	+69	+4	
corr. 98	(90)	+74	+3	
corr 110	(100)	+70	+2	End of gridline
IP S6 500N	W 230° (10)	+42	+7	slope 0° across
	(20)	+40	+8	45° slope
	(30)	+40	+9	
	(40)	+41	+9	
	(50)	+40	+9	
	(60)	+37	+8	outcrop above lin
	(70)	+38	+8	
	(80)	+38	+5	
	(90)	+38	+9	
	(100)	+38	+9	End of gridline

(14)

2002 Oct. 4   Hwy 3

12° Azimuth

Line	Station	In Phase	Quad	
(X)	Y	Z'	Z''	
IP5/6 600N	0 A	+36	+6	50° Azimuth
	E 50° (10)	+36	+5	
1630m	(20)	+42	+11	slope 30°
corr 32	(30)	+44	+5	
corr 44	(40)	+43	+7	
conr 56	(50)	+45	-2	
corr 68	(60)	+55	+1	
660m corr 80	(70)	+70	+6	
corr 92	(80)	+76	+4	
corr 104	(90)	+80	+5	
corr 116	(100)	+80	+4	End of gridline
IP5/6 600N A 230°	(10)	+35	+5	230° AZ slope 0
	(20)	+36	+6	traverse across
	(30)	+35	+6	45° slope
	(40)	+40	+8	
	(50)	+39	+8	
	(60)	+40	+7	
	(70)	+38	+6	
	(80)	+35	+5	
	(90)	+37	+7	
	(100)	+38	+7	End of gridline

(16)

VLF-EM
LINE 800 N
FORTUNE 1-6

29

Date Oct 5   May 3

Incl'ind 12° N

Line   Station In Phase Quad

	Y	Z'	Z"	
800	0	+28	+13	
N50°	(10)	+32	+4	slope 20°
	(20)	+29	+4	creek to east
	(30)	+28	+14	of line
	(40)	+28	+14	
	(50)	+22	+4	
	(60)	+17	+10	
	(70)	+8	+10	
	(80)	+7	+5	
	(90)	+7	+6	
	(100)	+6	+4	
800 W20°	(10)	+35	+8	
	(20)	+38	+5	
	(30)	+38	+8	
	(40)	+38	+7	
	(50)	+38	+7	
	(60)	+40	+8	
	(70)	+42	+10	
	(80)	+43	+7	
	(90)	+44	+9	
	(100)	+45	+8	

(17)

28

2002 Oct 5   Hwy 3

Base line   12° N

Line Station InPhase Quad

X	Y	Z'	Z''	
11:50 900	0	+14	+9	slope 20°
±50°	(10)	+13	+9	
	(20)	+12	+10	
	(30)	+11	+8	
	(40)	+8	+5	
	(50)	+5	+9	
	(60)	+2	+4	
	(70)	0	+5	
	(80)	0	+4	
	(90)	-1	0	
	(100)	-2	0	1810 m
900 W 230°	(10)	+1	+9	slope 20°
	(20)	+15	+7	
	(30)	+5	+4	
	(40)	+13	+4	
	(50)	+12	+5	
	(60)	+8	0	
	(70)	+3	-2	
	(80)	+4	-2	
	(90)	+9	-3	
	(100)	+17	0	

(18)

FORTUNE 1-6
VLF EM 16
LINE 1000 N

2002 Oct. 5

pag. 3

BASELINE 192° AZIMUTH

Station	In Phase	Quad
Y	Z'	Z"
576 1000 0	0	+3
E 50 (10)	−1	+4
(20)	0	+2
(30)	0	+2
(40)	0	+4
(50)	0	+3
(60)	−1	+2
(70)	−2	+4
(80)	−3	+3
(90)	−4	+2
(100)	−4	+1
TP 576 1000 W 230° (10)	+3	+5
(20)	+5	+4
(30)	+7	+4
(40)	+9	+7
(50)	+10	+7
(60)	+8	+5
(70)	+7	+3
(80)	+5	+2
(90)	+6	0
(100)	+5	+2

(19)

2002 Oct 1 Fortune 7/8 Dump
Baseline

Line	Station	In Phase	Quad	Data Reduction
X	Y	Z'	Z"	
1 7/8	0 0	-10	-8	
	25 180°	-12	-7	-22
	50 180°	-11	-7	-23	-(6)-(-22)=6
	75 180°	-5	-2	-16	(-5)-(-23)=18
	100 180°	0	+3	-5	(-3)-(-16)=13
	125 180°	-3	+3	-3	(-9)-(-5)=-4
	150 180°	-6	0	-9	(-1)-(-9)=8
	175	-5	-2	-15	(-9)-(-5)=-8
	200	-7	-5	-12	(-1)-(-11)=0
	215	-4	-2	-11	(-2)-(-12)=10
	250	+2	-4	-2	(9)-(-11)=20
	275	+7	-2	+9	(22)-(-2)=25
	300	+15	-6	+22	(41)-(7)=52
	325	+26	-5	+41	(56)-(22)=34
	350	+30	-1	+56	45-41 4
	375	+15	+2	+46	(5)-56 -41
	400	0	+2	+15	(-5)+(45)=50
	425	-5	+6	-5	(-5)-(15)=20
	450	0	+7	-5	(10)-(-5)=15
	475	+10	-7	+10	(10)-(-5)=15
	482 FP 7/8 EP ?			
	500	0	-1	+10	

(20)

LINE 50S   0 E TO 100E

44			

2002 Oct. 11

7/8 IP 550 Baseline (10S?)   270° Azimuth

Line	Station	In Phase	Quad
		Z'	Z"
		Y	

	Station	Y	Z'	Z"
7/8 50S	W 270°			
	(410)	+5	-3	
	(420)	+6	0	
	(430)	+5	0	
	(440)	+1	0	
	(450)	+6	+2	
		+6	+2	
		+3	+2	
		+5	+1	
		+5	2	
	(500)	+5	-1	

A S 37   +52055   5.49.25.05   750m

	Y	Z'	Z"
50	-11	-7	
150	0	+3	
150	-6	0	
200	-7	-5	
250	+2	-4	
300	+5	-6	
350	+30	-1	
470	0	+2	

2002 Oct. 12

7/8 10S Baseline   90° Azimuth

Line	Station	In Phase	Quad
		Y	Z'	Z"

	Station	Y	Z'	Z"	
7/8 - 0S	E 90° 0	-10	-8		
	(10)	-15	-10	gran. pit
	(20)	-21	-5		
	(50)	-27	-6		
	(40)	-22	-5		
	(50)	-10	-6		
	(60)	-7	-5		
	(70)	0	0		
	(80)	+2	0		
	(90)	+1	+2		
	(100)	+3	+7		
7/8 50S E 90°	(0)	-11	-7		
	(10)	-10	-5		
	(20)	-3	-1		
	(30)	0	-1		
	(40)	0	-3		
	(50)	+6	-3		
	(60)	+12	0		
	(70)	+12	0		
	(80)	+15	-3		
	(90)	+17	-1		
	(100)	+19	-2		

(21)

250S TOE TO 100E

Left column

2002 Oct 12

IP 7/8   190° Baseline   90° Azimuth

Line Station	In Phase Z'	Quad Z''
IP 7/8 100S E90° 0	0	+3
(10)	+2	+2
(20)	+6	+1
(30)	+8	0
(40)	+12	−1
(50)	+14	−1
(60)	+19	0
(70)	+23	+1
(80)	+23	0
(90)	+24	0
(100)	+23	0
IP 7/8 150S E90° 0	−6	0
(10)	−3	−2
(20)	+4	0
(30)	+10	0
(40)	+16	+2
(50)	+20	−2
(60)	+26	−4
(70)	+27	−2
(80)	+27	−2
(90)	+21	−2
(100)	+13	−3

Right column

2002 Oct 12

IP 7/8   190° Baseline   90° Azimuth

Line Station	In Phase Z'	Quad Z''
IP 7/8 200S E90° 0	−7	−5
(10)	−4	−4
(20)	0	−5
(30)	+3	−8
(40)	+7	−4
(50)	+17	−1
(60)	+28	−3
(70)	+33	0
(80)	+15	+1
(90)	+7	+2
(100)	+4	+4
IP 7/8 250S E90° 0	+2	−4
(10)	+6	−2
(20)	+11	−4
(30)	+13	+5
(40)	+15	−6
(50)	+14	−6
(60)	+8	0
(70)	0	+4
(80)	−5	+2
(90)	−3	+6
(100)	0	+9

(22)

FORTUNE 7-18
WEIGHT 16
LINE 300 S — E0 TO 100E
350 S — E0 TO 100E

36

2002 Oct 12   Dump
IP 7/8   1800 Baseline   E 90° Azimul

Line	Station	In Phase	Quad
X	Y	Z'	Z"

		Z'	Z"
IP 7/8 300S E90°	0	+15	−6
	(10)	+23	−5
	(20)	+32	−5
	(30)	+32	0
	(40)	+18	+2
	(50)	−3	+4
	(60)	−9	+4
	(70)	−6	+3
	(80)	+3	+14
	(90)	+15	+16
	(100)	+20	+14
IP 7/8 350S E90°	0	+30	−1
	(10)	+24	+6
	(20)	+2	+4
	(30)	−3	+9
	(40)	−2	+11
	(50)	0	+10
	(60)	−1	+6
	(70)	0	+5
	(80)	+3	+4
	(90)	+8	+1
	(100)	+17	+2

(23)

IP 7/8   180° Baseline   E 90° Azimuth

Line Station		In Phase Z'	Quad Z''
X	Y		
IP 7/8 400S E90° 0		0	+2
(10)		-4	+7
(20)		-5	+5
(30)		-5	+3
(40)		-3	+2
(50)		+2	0
(60)		+5	0
(70)		+12	+1
(80)		+18	+2
(90)		+18	+3
(100)		+10	+2
450S E90° 0		0	+7
(10)		0	+2
(20)		+5	0
(30)		+9	+1
(40)		+12	+1
(50)		+15	0
(60)		+18	0
(70)		+18	0
(80)		+13	0
(90)		+3	0
(100)		-1	0

2002 Oct. 12

IP 7/8   180° Baseline   E 90° Azimuth

Line Station		In Phase Z'	Quad Z''	
X	Y			
IP 7/8 500S E90° 0		+7	-1	
(10)		+3	-2	
(20)		+5	-3	
(30)		+7	-2	ridge data
(40)		+11	-1	
(50)		+11	-2	
(60)		+2	-4	
(70)		-2	-3	
(80)		-3	-3	
(90)		-3	-3	
(100)		-2	-1	
IP 7/8 550S E90° 0		+7	0	
(10)		+3	0	
(20)		+8	+1	ridge 150m
(30)		+8	+1	
(40)		+4	-2	
(50)		+2	-1	
(60)		+1	0	
(70)		+4	+1	
(80)		+3	0	
(90)		+5	+3	
(100)		+7	0	

(24)

40

2002 Oct. 12

IP 7/8   180° Baseline   E 90° Azimuth

Line	Station	In Phase	Quad
X	Y	Z'	Z"
IP 7/8 600 S E 90°	0	0	−1
	(10)	+5	+1
	(20)	+6	+3
	(30)	+8	+3
	(40)	+8	+3
	(50)	+9	+2
	(60)	+9	+2 landing
	(70)	+10	+3
	(80)	+12	+2
	(90)	+14	+3
	(100)	+15	+2
IP 7/8 600 S W 270°	0	0	−1 1325
	(10)	−4	+1
	(20)	−8	+1
	(30)	−9	+3
	(40)	−10	+3
	(50)	−12	+1
	(60)	−16	0
	(70)	−17	−2
	(80)	−15	−4
	(90)	−18	−5
	(100)	over	

2002 Oct 12

IP 7/8   180° Baseline   W 270° Azimuth

Line	Station	In Phase	Quad
X	Y	Z'	Z"
IP 7/8 600 S W 270°	(100)	−1	−4
	(110)	−5	−3
	(120)	+3	−6
	(130)	+2	−3
	(140)	−1	−2
	(150)	−3	−4
	(160)	−3	−2
	(170)	−4	−2
	(180)	−3	−7
	(190)	−5	−7
	(200)	−5	−7
	(210)	−6	−6
	(220)	−4	−6
	(230)	−4	−6
	(240)	−4	−5
	(250)	−4	−5
	(260)	−5	−5
	(270)	−5	−3
	(280)	−4	−4
	(290)	−4	−5
	(300)	−3	−5

VLF GH16
LINE 0 ~70 TO 400W

34

2002 Oct 9
IP 7,8   0   Baseline 270° Azimuth
Line Station In Phase Quad
X   Y   Z'   Z"

IP 7,8 9   0   −12 (−10) −4 (−2) less 1.2 (reading Oct 10)

Station	Y	Z'	
(10)	0	(9) −3 (5)	(culvert, Moore)
(20)	+26 (+43) +8 (+5)		access road top entrance
(30)	+27 (+22) +12 (+10)		
(40)	+14 (+8) +2 (+3)		
(50)	+14	0	
(60)	+13	−4	
(70)	+12	−5	
(80)	+13	−5	
(90)	+10	−7	
(100)	+12	−8	edge of road swamp
(110)	+12	−7	
(120)	+10	−8	shoulder of rd swamp
(130)	+9	−6	
(140)	+33	+8	chainlink fence
(150)	+9	−3	
(160)	+9	−3	
(170)	+10	+1	
(180)	+12	+7	
(190)	+15	+6	
(200)	+14	+6	

2002 Oct 9   Dawn
IP 7/8 0 Baseline 270°
Line Station In Phase Quad
X   Y   Z'   Z"

IP 7/8 0 W 270°

Station	Y	Z'	
(10)	+14	+10	
(20)	−2	+6	
(30)	+25	+6	
(40)	+31	+22	
(50)	+25	+16	
(60)	+22	+14	
(70)	+15	+11	
(80)	+16	+6	
(90)	+36	+5	
(100)	+42	+7	
(110)	+37	+3	
(120)	+33	+1	
(130)	+32	+4	
(140)	+25	+3	
(150)	+9	+4	
(160)	+13	+3	
(170)	+7	−1	
(180)	+3	−1	
(190)	+5	0	
(400)	+15	−4	

(26)

IP-ZUR 16
LINE-0 STATION 16 STN W

36

2002 Oct 9					2002 Oct. 11				Dump
IP 7/8 0 Baseline 270° Azimuth					IP 7/8 450S 100'Baseline 270°Azimuth				
Line	Station	In Phase	Quad		Line	Station	In Phase	Quad	
X	Y	z'	z"		X	Y	z'	z"	
IP 7/8 0 W 270°					IP 7/8 450S W 270°	0	+7		
	(410)	+19	−6		(10)	0	+3		
	(420)	+23	−6		(20)	+2	−2		
	(430)	+24	−9	goto lunch	(30)	+10	−3		
	(440)	+23	−9		(40)	+27	+6		
	(450)	+21	−9		(50)	+28	+4		
	(460)	+19	−13		(60)	+20	+4		
	(470)	+18	−15		(70)	+17	+12		
	(480)	+15	−11		(80)	+11	−11		
	(490)	+15	−4		(90)	+12	+16		
	(500)	+11	0		(100)	+5	+20		
△ 233	482069	5443040	741 m		(110)	5	+?		
	(510)	+7	0		(120)	−4	+19		
					(130)	−6	+15		
					(140)	−8	+14		
2002 Oct.10 Thursday					(150)	−8	+7		
EMF not functioning					(160)	−8	+2		
- prepared samples for analysis					(170)	−8	+4		
					(180)	−4	+9		
					(190)	−2	+9		
					(200)	0	+12		

(27)

FORTUNE, F_1 - F_8

VLF - EM 16

LINE 50S - ONTO 200W

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2002 Oct 9   Dump

IP7/8 50S Baseline 270° Azimuth

Line   Station In Phase Quad

X	Y	Z'	Z"	
IP7/8 50S N270°	0	−11	−7	
	(10)	−10	−5	
	(20)	−9	−2	
	(30)	−9	−1	
	(40)	−3	−1	
	(50)	+5	−3	1/cos : 0
ovr. 50	(60)	+4	−2	
	(70)	+21	0	
	(80)	+23	−6	
	(90)	+21	−5	chip weed
	(100)	+20	−6	
	(110)	+16	−7	
	(120)	+4	−2	
	(130)	+2	−11	
	(140)	+7	−6	
	(150)	+5	−7	
	(160)	0	−14	
	(170)	0	−10	
	(180)	+5	−8	
	(190)	+5	−6	
	(200)	+13	−7	
		+17	−9	

(28)

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2000 Oct. 9

IP 7/8 50S Baseline 270° Azimuth

Line Station InPhase Quad

Line Station		X	Y	Z	Z''	
IP 7/8	50S	270 (210)	+13	−8		
		(220)	+18	−8		
		(230)	+18	−9		
		(240)	+20	−9		
		(250)	+22	−9		
		(260)	+22	−5		
		(270)	+23	−4		
		(280)	+19	+2		
corr 296		(290)	+26	+8		
		(300)	+12	+7		
		(310)	−5	0		
		(320)	−3	−7		
		(330)	+19	+2	old scrap iron pile	
		(340)	+12	−6		
		(350)	+12	−8		
		(360)	+13	−4		
		(370)	+15	−4		
		(380)	+11	−2		
		(390)	+10	0		
		(400)	+10	0		

2000 Oct. 9

IP 7/8 50S Baseline 270° Azimuth
Line

	X	Y	Z'	Z''	
IP 7/8 50S W 270°					
(410)	+7	−2			
(420)	+7	−1			
(430)	+5	−4	road		
(440)	+4	−2			
(450)	+5	−4			
(460)	+6	−4			
(470)	+3	−4			
(480)	0	−2			
(490)	−5	+2			
(500)	−8	+6			
(510)	−10	+9	edge of hwy b...		
△ 332	482052	5442.993	739m	775.	

Geokajep Studies for Dump
Gravel Grooks.

46

2002 Oct 9   Dump

IL 7+8   100S   Baseline   270° Azimuth

Line   Station   In Phase   Quad

X   Y   Z'   Z"

(1800) 100   200   0   0   +3
            (10)   +5   -2
            (20)   +5   -4
            (30)   0   -3
            (40)   -5   0
            (50)   -7   0
            (60) -10   +4
            (70) -13   -2
            (80)   -4   -3
            (90)   -2   -3
           (100) +12   0
      •   (110) +8   +1
           (120) +10   -4
           (130) +8   -2   maple crossway
           (140) +13   -8
           (150)   -3 -19
           (160)   -5 -10   bus. 1.2
    our 175 (170)   -2 -12
           (180)   0 -12   bus ...
    our 176 (190)   -5 -10
           (200)   -7   -8

2002 Oct 9   Dump

IL 7+8   100S   Baseline 270° Azimuth
Line   Station   In Phase   Quad

IL 7+8 100S

           (210) -7   -8
           (220) -7   -3
           (230) -9   -3
           (240) -10   -3
           (250)   -8 -1
           (260) -10 -1
                  -10 -2
                  -12 -5
                   11 -9
                   -5 -5
           (340) +2 -12
                 +12 -10
                 +17 -7
           (340) -15 -8
           (350) +8 -3
           (360) +4 -3
                  -8 -1
                  -8 +1
                  -5 +1
                  -5 +2

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0020+9/Au Fx 3922180

Line	Station	In Phase	Quad
X	Y	Z	Z
(P 7/3 1000 W (410)	+5	+3
(420)	+5	+1
(430)	-4	+2
(440)	-5	+4
(450)	-5	+2
(460)	-1	0
(470)	-2	-1
(480)	-2	+2
(490)	-3	-2
(500)	-6	-5

Δ 338   482096   5442938   751m   755

| (510) | -8 | 0 |
| (520) | -9 | 0 | DATA
| (530) | -6 | +2 | NOT USED
(540)	2	+3
(550)	+5	+2
(560)	+7	-1
(570)	0	-2	end of clearing

Δ 331   481976   5442953

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PAGE	REFERENCE	DAT

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2002 - Oct 8

7/8 150 S   270° Azimuth

Line	Station	In Phase	Quad	
X	Y	Z'	Z''	
IP 7/8 150S W (100)		−10	0	
	(110)	−14	−1	
	(120)	−3	−7	deviate from Az 3m
	(130)	+27	−5	
	(140)	+34	0	
	(150)	+21	−7	back on Azimuth
corr 165.5 (160)		+14	0	
corr 173.8 (170)		+12	−10	
corr 185 (180)		+6	−8	
	(190)	−13	−9	
	(200)	−21	−10	
	(210)	−24	−10	
	(220)	−28	−15	
	(230)	−30	−12	
	(240)	−25	−15	
	(250)	−22	−23	
	(260)	−21	−24	
	(270)	−24	−17	
	(280)	−28	−21	
	(290)	−20	−25	
	(300)	−10	−21	

(32)

2002 Oct. 8
IP 7/8 200S   270° Azimuth

Line	Station	InPhase	Quad	
X	Y	Z'	Z''	
IP7/8				
	(210)	+41	+3	
	(220)	+63	+4	
	(230)	+32	-5	
	(240)	+15	-10	
	(250)	+13	-2	
	(260)	+16	+4	metal pile 40'across
	(270)	+7	0	kss = 1.45
corr 287.5	(280)	+3	-1	
corr 299	(290)	-3	-6	
corr 310	(300)	0	-3	
	(310)	+14	-5	cross road
	(320)	+10	-6	
	(325)	+8	-3	
	(340)	+9	-5	
	(350)	+10	-8	edge of pond
	(360)	+7	-14	around left edge
	(370)	+14	-14	15m off line
	(380)	+20	-15	
	(390)	+22	-10	
	(410)	+20	-10	back to line

2002 Oct.8
IP 7/8 200S. 270° Azimuth

Line	Station	InPhase	Quad	
X	Y	Z'	Z''	
IP7/8 200S 270°W				
	(410)	+17	-7	
	(420)	+10	-5	
	(430)	+15	-1	
	(440)	+12	+2	
	(450)	+10	+2	
	(460)	+7	+2	
	(470)	+5	+2	
	(480)	+2	+2	
	(490)	0	+3	
	(500)	-12	+3	
L28	482057	5442845	736m	
IP7/8 1505	0	-5	0	
	(10)	-10	0	
	(20)	-3	-1	
	(30)	+23	-12	
	(40)	+25	-6	
	(50)	+14	-3	
	(60)	+7	-1	
	(70)	+2	-2	
	(10)	0	+1	
	(20)	-5	0	

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2002 Oct 8
IP 7/8 2505 Baseline 300W 270° Azimuth
Line Station In Phase Quad

X	Y	Z'	Z"	
IP 7/8 2505 270 (300)		-5	-9	
	(320)	+5	-6	
	(330)	+5	-3	
	(340)	+2	-2	
	(350)	+2	-2	
	(360)	+7	-4	
	(370)	+12	-8	
	(380)	+25	-14	
	(390)	+38	-13	
	(400)	+52	-13	
	(410)	+45	-14	
	(420)	+30	-14	
	(430)	+27	-15	
	(440)	+24	-8	
	(450)	+40	-15	
	(460)	+47	+6	
corr 480	(470)	+35	+4	
	(480)	+16	-1	
	(490)	+9	-6	
	(500)	+6	-2	
	(510)	+3	-2	
	(520)	-2	0	read

2002 Oct 8
IP 7/8 2005 Baseline 270° Azimuth
Line Station In Phase Quad

	Y	Z'	Z"	
IP 7/8 2005 270°AZ 0		-7	-5	
	(10)	-10	-3	
	(20)	-10	-2	
	(30)	-5	-1	
	(40)	-3	-7	
	(50)	+12	-12	
	(60)	+20	-10	
	(70)	+39	-4	
	(80)	+33	-2	
	(90)	+28	0	
	(100)	+18	0	turn out 110
	(110)	+12	+1	
	(120)	+5	+1	
	(130)	?	-1	
	(140)	-3	-10	
	(150)	+3	+4	
corr 162.1	(160)	+14	0	
173.1	(170)	0	+3	
184.1	(180)	-2	-6	
198.6	(190)	+14	+6	
corr 204.6	(200)	+15	-2	read (2)

(34)

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2002 Oct. 7   Seattle
IP 7/8 300 S   270° Azimuth
Line Station In Phase Quad
  X   Y   Z'   Z"

IP7/8 300S W270°
          (410)   +7   0
          (420)   +2   -2
          (430)   -1   0
          (440)   +4   -2
          (450)   +2   -3   edge of dump

Δ 327   482122   5442735   762 m

2002 Oct 8   IP 7/8 260S Baseline
Line Station In Phase Quad
  X   Y   Z'   Z"

IP7/8 260S 0   +2   -4
      N270° (10)   -2   0
          (20)   -6   +3
          (30)   -9   -4
          (40)   -11   -4
          (50)   -15   -2
          (60)   -15   -1
          (70)   -8   -2
          (80)   -2   -4
          (90)   +3   -2

2002 Oct 8
IP 7/8
Line Station In Phase Quad
  X   Y   Z'   Z"

IP7/8 260S W270° (100)   +10   -1
          (110)   +40   +3
          (120)   +40   +8
          (130)   +28   0
          (140)   +15   -3   mid road
          (150)   +5   -3
          (160)   0   +1
          (170)   +10   +2
          (180)   +20   -3
   cor 176 (190)   +10   -3   ditch road
          (200)   +10   -3
          (210)   +8   -3   ditch road
          (220)   +5   -4
          (230)   +5   -3
          (240)   -2   -5
          (250)   -3   -3
          (260)   +2   +1
          (270)   +3   -2
   cor 286.5 (280)   +5   -3   /k=1.10
          (290)   +15   -8
          (300)   +30   -1

(35)

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2002 Oct 7

IP 7/8 Baseline 300S 270° Azimuth

Line	Station	In Phase	Quad	
	X	Y	z'	z"
IP 7/8 300S	0	+15	-6	
W 270°	(10)	+8	-7	
	(20)	+5	0	
	(30)	+5	+1	
	(40)	0	+3	
	(50)	0	+3	base of rockstrike
1.20 corr 62	(60)	-2	+2	rock bluff
corr 74	(90)	-5	+2	s=1.20 corr
	(80)	+10	+4	s=1.10 corr
corr 95	(90)	-10	+1	
	(100)	-7	0	
	(110)	+5	-13	
	(120)	+15	-18	
	(130)	+35	-16	
	(140)	+37	-4	
corr 89m	(150)	+12	-1	top of road cut
corr 170	(160)	+15	-4	road (1)
corr 180.5	(170)	+10	-6	
corr 191	(180)	+25	+5	
corr 202	(190)	-40	+4	
corr 211	(200)	0	+1	road (2) middle

2002 Oct 7

IP 7/8 300S in Baseline 180° Azimuth

Line	Station	In Phase	Quad	
	X	Y	z"	z"
IP 7/8 300S W270°				
corr	(210)	+10	-3	
	(220)	+13	-5	
	(230)	0	-10	
	(240)	-5	-10	
	(250)	-10	-4	
	(260)	-8	-4	
	(270)	-5	+2	
	(285)	-5	+5	
	(290)	0	+1	s=1.10
corr 312	(300)	+5	+3	
	(310)	-2	-10	ditch of road
	(320)	+9	-1	ditch of road
corr 343	(330)	+2	-2	
	(340)	+6	+3	
	(350)	+8	0	
	(360)	+8	+4	
	(370)	+12	+1	
	(380)	+12	-1	
	(390)	+4	+3	
	(400)	+10	0	

(36)

2002 Oct. 7
IP 7/8 350S Baseline 180° Azimuth
Line   Station In Phase Quad

X	Y	Z'	Z"	
IP 7/8 350S	(110)	-7	-1	ribbon 10 W
W270°	(120)	-5	-6	
	(130)	+4	-11	
	(140)	+21	-13	
	(150)	+40	+6	
Corr. 163 m	(160)	+25	+8	
	(170)	+15	+6	
	(180)	+8	+1	
	(190)	0	+2	shoulder road (1)
ribbon @ 208	(200)	-3	+4	mid road (1)
	(210)	-3	+3	
	(220)	-7	+5	
	(230)	-10	+3	ditch between 2 fds
	(240)	-10	+1	
corr 257	(250)	0	0	
	(260)	+3	0	
	(270)	-3	-2	next to electric fence
	(280)	-2	-1	
	(290)	-7	-4	
	(300)	-10	-5	

(37)

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2002 Oct. 7

Line	Station	In Phase	Quad	
X	Y	Z'	Z"	
IP 7/8.400 S W270° (210)	+2	+10		
(220)	0	+10	s = 1.01	
(230)	−2	+7		
(240)	+2	+7		
(250)	+2	+9		
corr 272m (260)	+2	+9		
(270)	+2	+8		
(280)	0	+6	shoulder road	*
(290)	0	+3	mid road (1)	
ribbon 304m 312m (300)	+1	+2	shoulder road	
corr 323 (310)	−1	+5		
corr 335 (320)	−5	+4	s = 1.20	
(330)	−12	+5	ditch of road	
(340)	−25	+1	mid road (2)	
corr 355 (350)	−38	−2	shoulder road	
(360)	−55	0	ditch road	
(370)	−69	−1	ditch	
corr 375 (380)	−68	+4	ditch	
(390)	−60	+9		
no flag corr 415 (400)	−55	+11	intersection next to shredded wood	

2002 Oct. 7

Line	Station	In Phase	Quad	
X	Y	Z'	Z"	
IP 7/8.400 S 278 W (410)	−30	+18	shredded wood	
(420)	−17	+14		
corr 445 (430)	−15	+14		
(440)	−15	+15		
(450)	−12	+7		
(460)	−8	+4		
(470)	−8	+3		
side of dump (480)	−5	+2	5 m from we	
L 326	48 2077	5442628	748 m	
IP 8350 S	0	+30 (+2)	−1 (−3)	
W270° (10)	+23	−2		
(20)	+17	−3		
(30)	+13	−1		
(40)	+8	−2		
(50)	+3	−1		
(60)	0	0		
(70)	−3	+4		
(80)	−3	+3	rock strike	
(90)	−4	+3		
(100)	−5	0		

(38)

FORTUNE 7-1B
VLF-EM 16
LINE 400 S

0900 Oct. 7

Baseline 180° Fortune 7/8 Dump

Line   Station In Phase Quad   Data
  X   Y   Z'(s)   Z"(s)
7/84005   0   0   +2+6
V 270° (10) +22(-23) -1 (-2)
        (20) +25   -4
        (30) +23   -1
        (40) +15   -4
        (50) +10   +4
        (60) +8   0
        (70) +3   +0
        (80)   0   0
        (90)   0   +5   s=1.60
       (100) -2   +3   s=1.41
       (110) -2   +3   top 50w/50' n x 100'
       (120) -2   0   strike 25°
       (130) -1   -1   s=1.03
       (140) +4   0   s=1.01
       (150) +4   -1
       (160) +3   +5
       (170) +4   +8
       (180) +1   +10   s=1.005
       (190) +5   +12
       (200) +6   +10   s = 2.11

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Lg 8, 2002

IP 7/8 450 S Baseline 180°   270° Azimuth

Line   Station   In Phase   Quad
  X   Y   Z'   Z"

IP 7/8 450 S 270° W

Station	Z'	Z"	
(210)	+2	+14	
(220)	+5	+10	
(230)	+5	+12	
(240)	+5	+7	
(250)	+8	+9	
(260)	+6	+7	
(270)	+4	+9	
(280)	+2	+8	
(290)	0	+6	
(300)	−2	+5	
(310)	−3	+3	
(320)	−3	+1	
(330)	−4	+2	
(340)	−6	+2	
(350)	−7	+3	
(360)	−7	+5	cat excavator
(370)	−13	+6	
(380)	−17	+7	
(390)	−22	+6	
(400)	−28	+7	

IP 7/8 450 S Baseline   270° Azimuth

Line   Station   In Phase   Quad
  X   Y   Z'   Z"

IP 7/8 450 S 270° W

Station	Z'	Z"	
(400)	−35	+3	
(410)	−46	+8	
(420)	−62	+7	
(440)	−68	+5	
(450)	−76	+2	
(460)	−80	+1	
(470)	−66	+2	
(480)	−37	−6	
(490)	−18	−5	
(500)	−5	−8	

A 33.5   482070 5442 681   74.) m

IP 7/8 500 S   0   0   −4

Station	Z'	Z"
(20)	+8	0
(30)	+21	+8
(40)	+28	+11
(50)	+32	+14
(60)	+34	+15
(70)		+15
(80)	+10	+10
(90)	+10	+4

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2002 Oct 11
IP 7/8 500S Baseline   270° Azimuth

Line Station InPhase Quad			
X	Y	Z'	Z"
IP 7/8 500S W(100)	2	+1	
(110)	−5	0	
(120)	−7	+2	
(130)	−7	+1	
(140)	−5	+1	
(150)	−5	−2	
(160)	−5	−1	
(170)	6	+1	
(180)	−2	−2	
(190)	0	0	
(200)	0	+2	
(210)	+3	+3	
(220)	+5	+3	
(230)	+5	+4	
(240)	+7	+1	
(250)	+7	+5	
(260)	+6	+8	
(270)	+6	+5	
(280)	+5	+7	
(290)	+5	+5	
(300)	+4	+3	

A 436 (530) +10 −2   432025 544

2002 Oct 11
IP 7/8 500S   270° Azimuth

Line Station InPhase Quad			
X	Y	Z'	Z"
IP 7/8 500S 270 W			
(310)	+1	+4	
(320)	+3	+4	
(330)	+5	+5	
(340)	+5	+4	
(350)	+5	+5	
(360)	+1	+5	
(370)	+3	+5	
(380)	+2	+7	
(390)	0	+5	
(400)	−2	+9	
(410)	−3	+11	
(420)	−5	+8	
(430)	−3	+9	
(440)	−3	+12	
(450)	−3	+10	
(460)	−2	+10	
(470)	+1	+9	
(480)	+1	+7	
(490)	+5	+3	
(500)	+7	−1	
(510)	+11	−1	

④

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2002 Oct 11

IP 9/8 550S Baseline 270° Azimuth

Line Station In Phase Quad

X	Y	Z'	Z''
IP 7/8 550S 270° 0	+7	0	

$\frac{1}{40} = 1.20$

	X	Y	Z'	Z''
(10)	+5	-4		
(20)	+2	0		
(30)	+5	+6		
(40)	+5	+5		
(50)	+3	+5		
(60)	0	-1		
(70)	+1	-6		
(80)	-3	-11		
(90)	-8	-17		
(100)	-12	-15		
(110)	-13	-15		
(120)	-15	-11		
(130)	-14	-10		
(140)	-8	-11		
(150)	-13	-11		
(160)	-10	-11		
(170)	-6	-7		
(180)	-4	-7		
(190)	-4	-7		
(200)	-5	-9		

2002 Oct 11

IP 7/8 550S Baseline W 270° Azimuth

Line Station In Phase Quad

	X	Y	Z'	Z''
IP 7/8 550S 270°	(210)	-4	-8	
	(220)	-5	-5	
	(230)	-5	-8	
	(240)	-3	-6	
	(250)	-3	-6	
	(260)	-1	-6	
	(270)	-3	-5	
	(280)	0	-4	
	(290)			
	(300)	+1	-3	
	(310)	+2	-3	
	(320)	0	-1	
	(330)	+2	-3	
	(340)	+4	-2	
	(350)	+4	-2	
	(360)	+4	-2	
	(370)	+4	-2	
	(380)			
	(390)	+5	-3	
	(400)	+4	-5	

42

42

2002 Oct. 12

IP 7+8   180° Baseline W 270° Azimuth

Line Station In Phase Quad

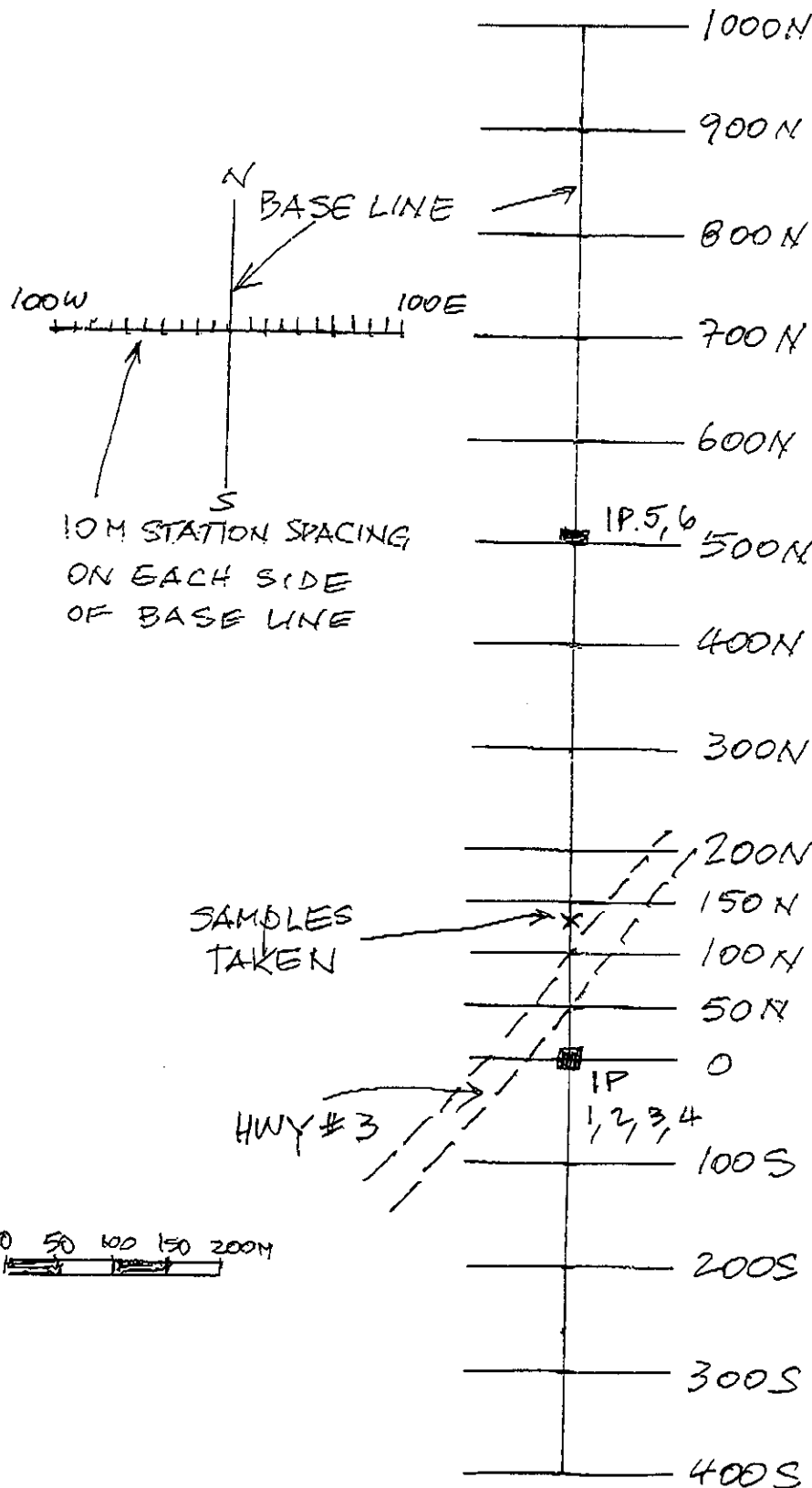| X	Y	Z'	Z''	
IP 7 & 600S. W270°(300)				
	(310)	-3	-5	
	(320)	-3	-8	
	(330)	-3	-8	
	(340)	-3	-4	
	(350)	-3	-4	
	(360)	-3	-4	
	(370)	-2	-5	
	(380)	-2	-9	1400 hr.
	(390)	-1	-8	
	(400)	-1	-9	
	(410)	-1	-11	
	(420)	-2	-10	
	(430)	-1	-10	
	(440)	-1	-10	
	(450)	-2	-10	
	(460)	-2	-9	
	(470)	-2	-6	
	(480)	-2	-6	
	(490)	-3	-6	
	(500)	-5	-5	

△ 338   48 20 48   5442434 760m   145N
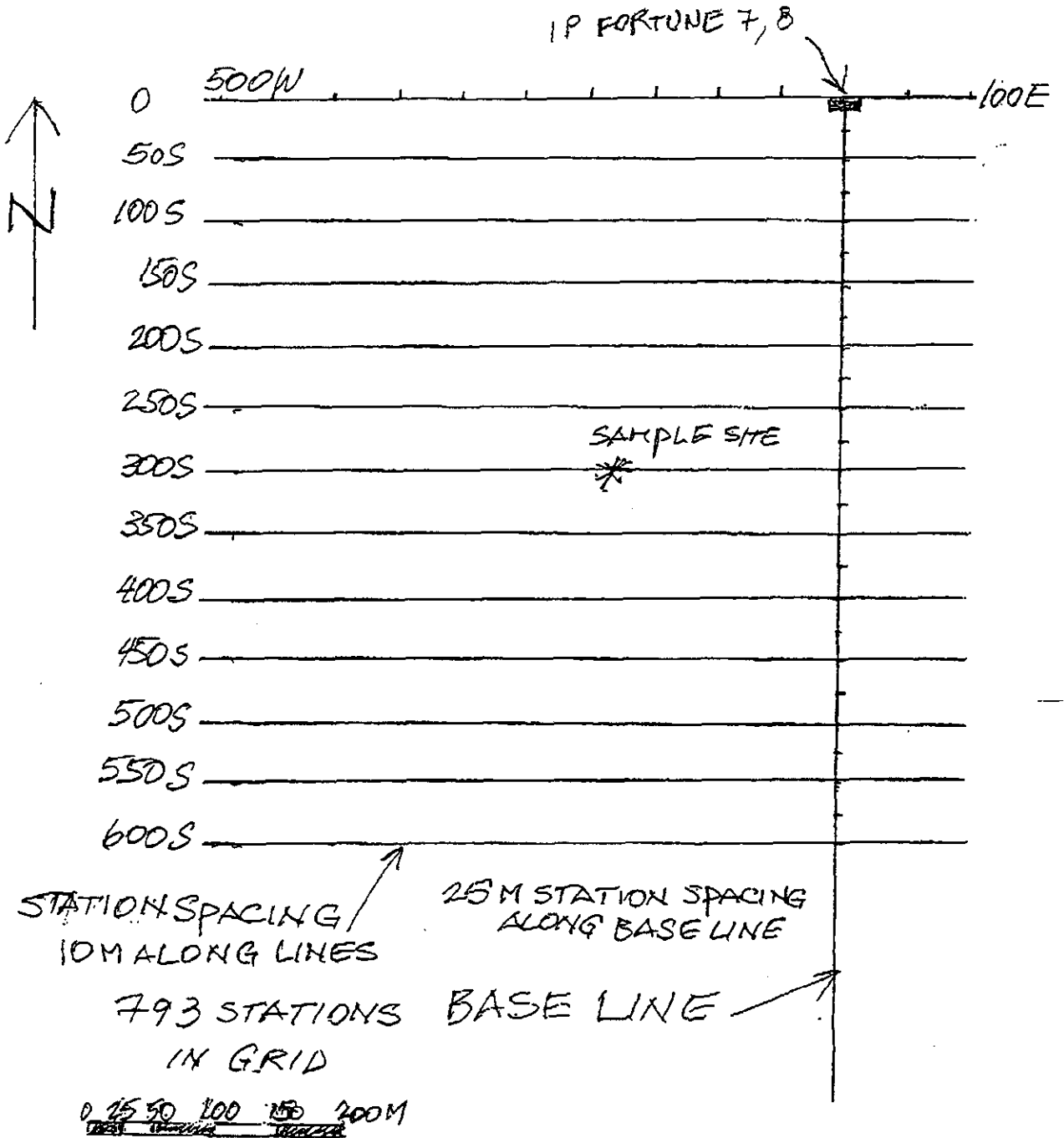
(43)

Fortune 1 to 6 Mineral Claims
Grid layout for
VLF EM 16 Survey

BASE LINE

N

100W   100E

S

10M STATION SPACING
ON EACH SIDE
OF BASE LINE

SAMPLES
TAKEN

HWY #3

0 50 100 150 200M

—— 1000N
—— 900N
—— 800N
—— 700N
—— 600N
IP.5,6 —— 500N
—— 400N
—— 300N
—— 200N
—— 150N
—— 100N
—— 50N
IP —— 0
1,2,3,4
—— 100S
—— 200S
—— 300S
—— 400S

AZIMUTH OF
BASE-LINE
012°

357 STATIONS
MARKED

(44)

Fortune 7 to 18 Mineral Claims
Grid layout for
VLF EM 16 Survey

IP FORTUNE 7, 8

N

0	500W · · · · · · · · · · · · · 100E
50S	
100S	
150S	
200S	
250S	
	SAMPLE SITE
300S	*
350S	
400S	
450S	
500S	
550S	
600S	

STATION SPACING
10M ALONG LINES

25M STATION SPACING
ALONG BASE LINE

793 STATIONS   BASE LINE
IN GRID

0 25 50 100 150 200M

(45)

Fortune 1 to 6 Mineral Claims
Cost Statement for the work

|	
Grid layout and sample collecting	1705.59
VLF data collecting	3310.48
Engineering Supervision Report writing	1458.30
Truck	431.58
Sampling	321.00
VLF EM 16 rental	224.71
Travel and Meals	357.29
Total	$ 7808.75

Fortune 7 to 18 Mineral Claims
Cost Statement for the work

Grid layout and sample collecting	1585.05
VLF data collecting	3167.26
Engineering Supervision Report writing	1041.66
Truck	382.24
Sampling	321.00
VLF EM 16 rental	163.84
Travel and Meals	255.20
Total	$ 6916.25

Disclaimer,

I, Gordon F. Cowie, P. Eng, of # 108 – 145 St. George Street in Toronto, Canada, M5R 2N1

1. That, I have visited (1 day) at the Fortune Graphite Property site and four days on the Superior Graphite Property from 9th July to 14th July, 2,000.

2. That, I have not received, nor do I expect to receive any interest in the properties, or securities f.rom Worldwide Graphite Producers nor from International Mineral Resources Ltd.
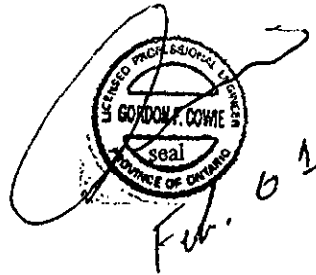
Dated at Toronto, Ontario on this 15th day of February, 2,001