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1994 ASSESSMENT WORK PROGRAM

CARAMELIA PROJECT

PROSPECTING, GEOLOGICAL AND GEOPHYSICAL S

FILE NO:

Camp McKinney, B.C.

SEP - 1 1994

Gold Commissioner's Office VANCOUVER, B.C.

Greenwood Mining Division NTS 82E3 E1/2

(119°11'W, 49°07'N)

McKINNEY MINES CORP. (owner)

Vancouver, B.C.



by

CHARLES A.R. LAMMLE, PEng.

GEOLOGICAL BRANCH ASSESSMENT REPORT

15 AUGUST 199

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INTRODUCTION

Summary of Work Done

During 14-26 May 1994, a program of prospecting, detailed magnetometer surveying and VLF-electromagnetic surveying, and some geological work, was carried out over portions of McKinney Mines Corp.'s Camp McKinney claims, near Rock Creek, B.C. These claims cover surface and underground workings on gold- and base metal-bearing quartz veins, near granodiorite in Permo-Triassic Anarchist Group rocks.

Prospecting was done on portions of Okanagan, Wiarton, Amelia, Fontenoy, Last Chance, Sailor, Maple Leaf and Edward VII claims; a helicopter was used one morning (prior to the vegetation being in full leaf) to prospect for and locate gossans and other geological features, dumps, trenches, shafts, etc., for the purpose of cost-effectively orienting, expediting and directing the ground prospecting. As is usually the case, and as it turned out, many of these features are now obscured in second growth, in alder and willow patches and in logged areas such that on the ground, a person might fail to notice while passing within 50 metres or so. Also, some of these features have been given only cursory mention in the literature; some have escaped description over the years.

Ground magnetic and VLF surveys were done on parts of Okanagan and Sawtooth claims, and also on parts of the Fontenoy Crown Grant. Geological mapping was also done at Fontenoy. The purpose of the geophysical work was twofold:

- 1.) to add to coverage of detailed magnetic and electromagnetic surveys carried out last year in an effort to trace the thin gold-bearing fissure vein systems on the property. Close-spaced magnetometer work was found to be effective last year, in defining linear lows over quartz veins devoid of magnetic minerals, and that effectiveness was confirmed by this seasons work.
- 2.) to continue searching for magnetic evidence of skarn which would likely contain magnetic minerals, and perhaps gold. Small magnetic highs that might indicate skarns with magnetic minerals have been defined in previous programs, and similar highs were defined by this work. In this regard, other known skarns in the area have well defined spatially associated magnetic highs, particularly Buckhorn Mountain, 30km to the southeast across the US border, on which the Crown Jewel gold deposit has been developed, and is now in the final stages of permitting.

The work was done variously by C.A.R. Lammle, Burnaby; J.A.Chapman, White Rock; Al Philipp, Osoyoos; and Chris Whatley, Okanagan Falls.

To facilitate the magnetic work, control lines were cleared, chained and ribboned. On the Okanagan and Fontenoy claims, short control base lines and cross lines were cut, chained and brushed out normal to the vein, and used for control of the magnetometer measurements. Survey station intervals used were 2.5 and 5.0 metres on lines 25m apart. The same lines and other chain and compass lines were used for orientation mapping of surface and geological features.

At Okanagan M.C., 1470 m of line were surveyed in this fashion; at Fontenoy, 575 m of line were likewise surveyed.

The scale of the property index map provided (Dwg. No. 1), part of an AutoCAD drawing of a larger area, is 1:1000. Topography on this map was prepared by reading elevations from the 1:50,000 map at some 470 points (a 250 m grid), interpolating these elevations to the intersections of a 19x19 m grid by kriging, and then contouring these elevations at 10 m intervals with Surfer software. Hence, although realistic-looking, the contours are not more accurate than can be read from the topographic map. Most of the crown grant detail on this map has been plotted exactly (solid lines) from copies of original BCLS field notes available from the Surveyor General's office, and then `best-fitted' to the topography using details from 1:20,000 forest interim maps, and by compass and chaining between the Hill-Starck Shaft and crown grant survey posts. Other claims shown by dashed lines have not been surveyed and were positioned by compass and hip-chain surveying to legal corner posts, but in some cases, by plotting from details that are available only on the Mining Recorder's maps.

Outlines of underground workings, veins, faults, drill holes, etc., have been carefully prepared three dimensionally via digitizing tablet from various hand drafted maps dating back several decades. These data have been tied to crown grant corner posts by brunton and chain surface traverses, and then appropriately registering mine data to the surface survey pins.

The field work has been processed by Lammle. The magnetometer field notes were converted to ASCII files for SURFER/AutoCAD contouring, Fraser filtering, etc., and drafting. This report covers all of the work.

Location, Access, Geography, Physiography, History

Camp McKinney is located in the south-central part of the province, 22 km northeast of Osoyoos, and 12 km north of the Canada-USA border. Access is 11 km northerly via the all weather Baldy Mtn. gravel road that joins paved Highway 3 at a point 3 km east of Bridesville.

Physiographically, the area is in southern Okanagan Highlands, part of B.C.'s Southern Plateau and Mountain System. The general elevation at Camp McKinney is about 1340 metres, the topography being smoothly sculpted, terraced and veneered with glacial, glacial-fluvial and outwash. Drainage is towards the south via McKinney and Rock Creeks, both deeply entrenched in the rolling plateau. A small brook - Rice Creek - flows across the central part of the property.

Much of the mixed coniferous-deciduous forest (pine, larch, fir, aspen) has been harvested by skidding to truck-landings. In the course of the last century, many of the original surveyed corner posts, and many of the more recently located posts have been obliterated by forest fires, by road building and by the logging.

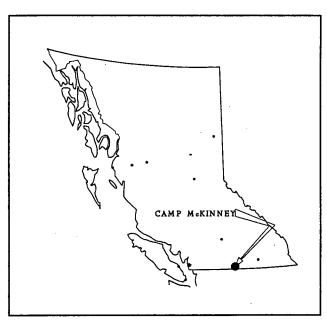


Figure 1 MAP OF BRITISH COLUMBIA SHOWING

LOCATION OF CARAMELIA PROJECT AT
CAMP McKINNEY.

Camp McKinney was discovered in the mid 1880's, and became one of the first dividend-paying gold mines in British Columbia. In those early years the claims were American style with extralateral rights and dimensions 600' x 1500'.

Although small tonnage-wise, the veins at the Camp were, and still are important because of their richness. Recorded production was during three main periods: 1960-62, 1940-46 and 1894-1918. Total production is 124,452 tonnes from which 2,538,101 grams gold and 1,008,979 grams silver were recovered. Production during the early 1960's was 10,244 tonnes that yielded 443,559 grams gold and 373,267 grams silver.

PROPERTY (Dwg. No. 1)

The property consists of a number of crown granted mineral claims (CG); reverted and re-staked crown grants (RCG); and both two-post and metric claims. (See DWG. 1, attached.) These are as follows:

Emma CG L.270 8.36 Alice CG L.271 7.08 Cariboo CG L.272 7.59 Amelia CG L.273 6.27 Okanagan CG L.274 8.07	
Cariboo CG L.272 7.59 Amelia CG L.273 6.27	
Amelia CG L.273 6.27	
Okanagan CG I 274 9 07	
Okanagan CG L.274 8.07	
Maple Leaf CG L.613 5.25	
Last Chance CG L.751 18.95	
Fontenoy CG L.752 19.37	
Wiarton CG L.856 17.92	
Sawtooth CG L.952 8.92	
Molson CG L.2526S 17.58	
Paragon CG L.2530S 14.66	
Burley #1 CG L.2531S 15.99	
Wonder Y CG L.2536S 20.36	
Minnie-Ha-Ha RCG L.680 214279 20.52	
Sailor RCG L.766 214280 17.00	
Diamond RCG L.1455 214281 8.69	
Toledo RCG L.1270 214282 13.57	
Snowshoe RCG L.1269 214283 17.47	
Teaser RCG L.951 214284 16.75	
Rover Fr. RCG L.769 214289 6.19	
Cariboo Fr. RCG L.925 214920 1.94	
Kamloops RCG L.275 214291 17.27	
Mizzenmast 215174 20	units
Mainmast 215175 9	units
Comstock 1 303413 2-1	post
•	post
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Since the assessment work program, some of these claims have been officially abandoned and restaked for the purpose of optimizing coverage and including open ground.

GEOLOGY

The geology of the area has been reported on in the literature and assessment report files numerous times. The most terse, comprehensive and useful document is M.S. Hedley's <u>Geology of Camp McKinney and of the Cariboo-Amelia Mine</u> in Bulletin No. 6 of B.C. Dept. of Mines. Minfile 082ESW020 gives an accurate summary. No repetition of this fine Bulletin nor the Minfile summary is needed. However, some description integrating data from more recent studies and theory can be justified.

Anarchist Group is a poorly understood group of sea-floor sediments and volcanic rocks. On stratigraphic and scant fossil evidence, the age of the assemblage is bracketed between Permian and Triassic. It is believed that the strata were originally a veneer of sands, silts, limy muds and intercalated limy volcanics, lying on the sea floor, and that during plate tectonic collision, some of the lighter strata and some slices of heavier basalt from the sea floor itself were ploughed off, as if by bulldozer, and obducted up onto the edge of the continent - the blade being the metamorphosed leading edge of the craton, now represented by Shuswap Terrane. The rocks that subducted during this process eventually melted, forming granitic magmas. These lighter molten materials ascended, like hot air balloons, and formed the stocks and batholiths now called Nelson, Okanagan and Valhalla Intrusions.

Given the plate collision scenario, Anarchist Group would have originated under conditions of northeast-trending compression. Accordingly, large scale folding with northwest-trending axial planes should be suspected. This compression regime changed later in geological time, however, to east-west tension, for this southern part of British Columbia is now characterized by strong, north-trending horst and graben block faults. Subduction, persisting for a long time and eventually lifting, expanding and stretching the surface locally to a greater radii, can be credited with having changed the stress from compression to tension.

Now, after extensive erosion, the geology of this part of southern Okanagan Highlands can be characterized somewhat imperfectly perhaps - as a large pendant of Anarchist Group (Permo/Triassic) rooted in granodiorite of Nelson Batholith (Jura-Cretaceous). The stratigraphic succession in the pendant - calcareous greenstone, impure carbonaceous quartzite, quartz-biotite schist, limestone and greywacke - is not unlike the sediments and volcanics of some pre-Cambrian greenstone belts. However, the gross structure in Anarchist Group is probably anticlinorial, while most pre-Cambrian greenstone belts are synclinorial. The intrusive rocks are also similar petrographically to some in the older greenstone belts, and although generally of acid to intermediate composition near the Anarchist rocks, they range in composition to alkaline types.

Anarchist Group strata on the property were successively dyked, deformed, metamorphosed, silicified, hornfelsed, skarned, veined, mineralized, intruded, faulted and dyked again.

The character of the contact between the greenstone and the granodiorite, being poorly exposed, is poorly known; undoubtedly it is irregular both in plan and section. Importantly, the intrusive was exposed in underground workings in the early 1960's, on No.6 Level near the bottom of the Hill-Starck inclined shaft, and also, with much alteration, in the western end of No.3 Level. At these locations, the intrusive appears to cut off (or offset) the gold-bearing vein, suggesting that the intrusive is post-mineral. However, veins elsewhere are present in the intrusive rocks, as on Brook mineral claim, and likely these formed from late stage fluids rising from the intrusion to eventually fill conduits and fissures. Hence, it is likely that the veins are contemporaneous with the intrusion. Wall-rock of the veins was irregularly altered to sericite-quartz-ankerite. Near fissure vein system, silica-ankerite-sulphide alteration should be expected, and development of listwanite along major ductile faults would not be unusual.

Contact metamorphic, metasomatic and structural effects can be expected in the older rocks at and near the contact. Some rock types - sandstones and shales, for example - can be expected to have been hornfelsed and silicified; others - impure carbonate rocks - can be expected to be metasomatized to garnet-pyroxene-pyrrhotite skarns, and these would have excellent potential for large sized deposits of base and precious metals. All of the rocks could be expected to be faulted, particularly, the country rock overlying the intrusion.

The main productive vein at Camp McKinney was called the Cariboo, or Cariboo-Amelia, after the principal claims. This vein is near vertical (85°S) and trends east. The quartz from it is bluish, semi-translucent, and faintly banded. It has mesothermal characteristics like the veins at Bralorne and like those in the Motherlode district of California. Mineralization consists of pyrite with visible gold. Small amounts of sphalerite and galena are present. Chalcopyrite, tetrahedrite and some pyrrhotite are also present, but generally in inconspicuous amounts. Towards the west, the vein seems to branch out into northwest-, west- and southwest-trending splays, while towards the east, it appears to be offset - relative to the productive portions of the mine - downwards and to the south by a series of north-trending faults.

If the vein originally occupied a single linearly-continuous, near-vertical fissure, extending from Sailor to beyond Wonder Y, then its present configuration would be the principal marker by which this disruption might be measured. Viewed three dimensionally in AutoCAD, the Cariboo-Amelia vein in the central sections of the old mine - the sections above the underground exposures of the intrusive - appear to have been shoved upwards and to the north relative to the previously mentioned linearly continuous fissure vein concept, on a series of thrust faults - a number of which are flat, and a number of which are steeply inclined. It appears that the flat faults were early, as two of the principal ones are themselves offset by one of the steeply inclined ones. The cumulative upwards and northerly dislocation is undoubtedly a result of the underlying intrusion shouldering aside cover rocks to make way for itself. Exploration targets can be located by using this concept to extrapolate likely positions of the vein.

Underground mining was greatly complicated by the complexity of the faulting. After the vein was in place, one of the most likely effects of continued rising of the intrusion would be deformation and dislocation of the older strata and the vein itself. It is presumed that the present disrupted configuration of the vein was caused by the imperceptibly slow rising of the granodiorite mass, and the accompanying compression, deformation and block faulting of the rocks at the contact and overlying the intrusion. Disruptive effects of the intrusion on the older rocks would diminish with increasing distance from the contact.

RESULTS FROM HELICOPTER AND GROUND PROSPECTING WORK

During the morning of May19, 1994, a Bell Jet Ranger was used for two hours to search for previously unlocated workings on Camp McKinney ground. The helicopter traversed east and west at ground clearance of about 125m on flight lines spaced at about 150m. Several previously unknown workings were discovered as were some interesting geological features. Details recorded in the helicopter follow:

(See Dwg. Nos. 1 and 4a)

- 1. A small pond on Fontenoy is coloured a unique sky blue, possibly organic.
- 2. There is a major north-south fault through the Fontenoy claim, it can be seen for about 10km.

- 3. There are a number of outcrops to prospect along the gas line right-of-way.
- 4. Due south of Sailor, on power line right-of-way, there appears to be a quartz outcrop.
- 5. Due south of Kamloops, on power line right-of-way, there appears to be a quartz outcrop.
- 6. Due west of the shafts on Brook (formerly Anarchist)about 200m, there appears to be a quartz outcrop.
- 7. 200m southeast of shafts on Brook, there are light coloured rocks, quartz? and workings?
- 8. Workings present northeast of Maple Leaf, near Slamet.
- 9. Two pits beside road on Teaser, north of Wiarton.
- 10. Large trench on northeast side of Teaser, also there are some pits due west of this trench.
- 11. 1000m south of power line south of Sailor on top of a hill, there is an outcrop with workings.
- 12. Workings 50m south of first power line tower east of Gold Hill summit.
- 13. 500m east of top of Gold Hill and about 200m north, there is a very rusty outcrop.
- 14. 350m north of second power line tower west of Rice Lake, there are big workings hidden in an alder patch.
- 15. Near Jolly Creek, 650m north of 500Kv power line, there is an old pit.
- 16. 100m north of Bev 21 final post, there is a big pit.

The first 10 of these observations are on the company's property, the last 6 are beyond the limits of the ground held. As these latter six were found during the latter half of the aerial traversing, only one half of the total helicopter costs are claimed for assessment work credit. Ground prospecting follow-up was done on several of these new findings, and these are described in more detail below:

A probable offset of the Cariboo-Amelia vein (Dwg. No. 4a) was discovered as a consequence of the helicopter prospecting traverses. During this work, a north-trending topographic lineament 10 or more kilometres in length was discovered; it was interpreted to have been caused by differential erosion along a fault. Prospecting this lineament on the ground verified that it was a fault - one of the stronger faults in the camp - and that it passed through the Fontenoy and Waterloo workings. Accordingly, in this report this fault is referred to as the Fontenoy Fault. Further prospecting suggested that the knotty quartz masses in the workings at these locations had likely been dragged, or remobilized, from the vein into the fault plane. This discovery stimulated additional ground follow-up prospecting, which eventually led to re-discovery of a vein - a small exposure area - about 300m to the south, on the east side of the fault. This vein merits delineation by additional surface work by drilling to see if it is gold-bearing at depth. Initial orientation magnetic and electromagnetic work was done, and this is described later in this report.

Discovered also by this ground follow up was a short adit near the southwest corner of Fontenoy. It was not previously known, and was named Rabbit Warren Adit, (Dwg. No. 4a). It is located on the steep slope, about 15 metres west of the lineament occupied by Fontenoy Fault. A previously unknown shaft occurs in the gulley in line with the adit. Two small faults at the portal of the adit trend north-northeast and dip towards the gulley; the easternmost of these hosts a 10cm quartz vein that is heavily mineralized with galena. Two samples were taken here, one from the mineralized vein and the other from the dump of the shaft. Locations are shown on Dwg. No. 4a. Acme Analytical ICP results from these samples are listed below:

SAMPLE	AU ppb		AG ppm	PB ppm	ZN ppm	COMMENT
RL-11	31		2.6	516	30	from dump
RL-10	37600	•	276	25217	177	from quartz vein

Two other selected character samples were taken from the main Fontenoy workings, and six similar character samples from the main Waterloo workings. Acme Analytical ICP results from these are listed below:

SAMPLE	AU ppb	AG ppm	PB ppm	ZN pp	m COMMENT
RL-16	400	37.4	12165	2311	Fontenoy main shaft material
RL-17	26	0.9	268	383	Fontenoy subordinate north shaft
RL-05	130	0.3	951	400	Waterloo Dump north, blue quartz
RL-06	380	0.2	159	73	Waterloo Dump north, white quartz
CM-94-05-10	38800	32.7	1447	1333	Waterloo Main Shaft material
RL-07	30800	22.8	3840	2256	Waterloo Dump south, blue quartz
RL-08	290	0.9	266	266	Waterloo Dump south, white quartz
RL-09	37600	21.9	637	944	Waterloo Mill, sorting pile

Also as alluded to earlier, follow-up prospecting at Sailor and plotting the underground workings there, indicates this vein is quite similar to the Cariboo-Amelia in its character and attitude, and therefore that it is possibly a western extension of Cariboo-Amelia. Prospecting was done in the vicinity to discover outcrops to help confirm this concept, but none were found; additional data comes only from around the caved shaft. Additional surface work and drilling should be done in the interval between Sailor and Cariboo-Amelia workings to search for high-grade shipping ore. A selected grab character sample was taken from the dump at Sailor shaft. Acme Analytical ICP results from this sample are listed below:

SAMPLE A	U ppb	AG ppm	PB ppm	ZN ppm	COMMENT
RL-18 3	440	21.6	11653	3554	selected from dump

Other workings on quartz veins north from the Sailor and extending west-northwest from Cariboo-Amelia along the south slope of Gold Hill towards the south side of Edward VII crown grant - across Annie L, Dolphin, Little Billie, George Hurst, Eureka claims - were prospected. Rock types encountered were mainly calcareous greenstone with smaller amounts of impure quartzite. It was concluded that these veins likely represent branch veins connecting with Cariboo-Amelia.

Rusty outcrops indicate high iron content and as skarns are frequently iron-rich, the rusty outcrops observed from the helicopter will be prospected. However, this work has not yet been done.

Skarn containing precious and base metals is present in Anarchist Group at Camp McKinney and in the same general strata in the same geological setting elsewhere in this part of British Columbia, Dayton Camp being a good example. Examples at greater distance but in rocks of this same tectonic package are Phoenix and Hedley. An important example of such skarn in the same package of rocks is the Crown Jewel Gold Deposit - 1,800,000 ounces developed and permitting in final stages - which is just across the border in Washington State. As is well known and as the Crown Jewel demonstrates, skarn-type mineralization has the potential for much greater size and tonnage in this terrane, and thus, for much greater quantities of contained metals than the narrow veins. Accordingly, these greater potentials justify thorough surface exploration work for possible skarns.

GEOPHYSICAL SURVEY RESULTS

General

Geophysical Instruments used were as follows:

Magnetometer -

Geometrics G 816 Proton Precession

(Vertical field)

(Serial Number 60708)

VLF-EM

Phoenix VLF-EM

(Model VLF-2)

(Serial Number L1173)

The geophysical work described herein was laid out to search for local branches, projections or offsets of the vein near the 1960 Hill-Starck workings, and eastwards from them, and to test the presumed eastward extension, probably offset from the Cariboo-Amelia vein, that been identified by prospecting on Fontenoy and along its south side. Detailed magnetic surveying was done on the north central part of Okanagan Claim contiguous with similar work done on Sawtooth and Wiarton last year. Similar detailed magnetic and VLF-electromagnetic work was done on at the south end of the Fontenoy claim. Part of the work at the south end of Fontenoy spread over on to Vernon Crown Grant which was not then part of the property; this portion of the work has not been included in the attached Itemization of Expenditures Incurred. All field work was done by Lammle and Whatley.

Mag and EM field notes were transferred to spreadsheet for diurnal variation correction, and Fraser filtering. ASCII files of the corrected and filtered data were prepared in a form suitable for interpolating and contouring by SURFER, and AutoCAD drafting. All data has been added to the three dimensional Camp McKinney AutoCAD database; accordingly maps accompanying this report incorporate some of the data from previous assessment work programs.

OKANAGAN, SAWTOOTH (Dwg. No. 3a) At the Okanagan and Sawtooth Crown Grants, the detailed work shows linear magnetic lows directly over the vein, or presumed strike extension of the vein. Some distance further eastwards from the known productive vein at Wiarton, the magnetics define a linear east-trending low along the projection of the vein (Dwg. No. 3b). It is superimposed on the NNW-trending grain that is due to the stratigraphy. In this vicinity, the Cariboo-Amelia vein is offset - relatively downwards and to the southeast. Appreciable work including trenches, drill holes and shafts, has been done over the years to find the vein and to elucidate the nature of the offset. One vertical drill hole in this area on a small abrupt magnetic high yielded a short sections of high grade gold at a depth of 11.58 metres, but judging from absence of records, a shaft sunk on the collar apparently did not find important amounts of gold, nor the main vein; at least there is no record that it did. It is very intriguing that such a distinctive magnetic high occurs at the most interesting drill hole in this area. Other similar magnetic highs, might reflect faulted segments of skarn mineralization, such as the one another 120m further east. This is the north trending magnetic high defined last year. It may reflect skarn replacement of certain stratigraphic units, possibly a limestone sequence that projects into this general area. This area is intriguing and merits testing by diamond drilling.

FONTENOY (Dwg. No. 4b) On Fontenoy Crown Grant and near its south boundary on Vernon Crown Grant (now Vern), detailed magnetic work has defined a distinctive magnetic low coincident with an east-trending quartz vein. This is the vein believed to be an offset of Cariboo-Amelia. The magnetic low is made up of two parts - a narrow linear east-trending low directly over the surface trace of the vein and, a much broader and stronger paralleling low 30m to the south. This stronger low might reflect a larger quartz vein. These lows should be tested at depth for presence of gold in the quartz. Fraser filtering of the VLF-EM work here has not revealed useful interpretative data (Dwg. No. 940612-1) despite the strike of the vein being well oriented towards the transmitter. The absence of a conductor here can be attributed to absence of conductive material in and along the vein.

The VLF transmitting station located at Seattle was used. Hawaii was not used because of its weak signal strength.

Detailed magnetic work over a much larger area could reveal a pattern caused by skarn metasomatism - a property-wide thumb print, so to speak. The work accomplished to date is inadequate in areal coverage to show the whole picture. Further work along these lines could be very rewarding and should be done.

CONCLUSION

Skarn Mineralization

This potential for appreciable tonnages of skarn at Camp McKinney has been recognized only relatively recently. Most exploration in the area since this potential was realized has been limited by budgets and other factors to fit assessment work requirements. Prospecting was done on Amelia and Okanagan claims in the course of this 1994 assessment work program, however the general lack of outcrop hindered this effort. One 1979 drill hole at Camp McKinney with a 9.5 metres intercept of good base- and precious-metal mineralization may have been partly in skarn. Some of the diamond drill hole logs describe skarn. Furthermore, pieces of rock from a number of waste dumps have been identified as skarn. Elsewhere, some mineralization is described as being replacement-type, as opposed to fissure-vein and skarn. Specifically, replacement mineralization has been described at the foot of the ventilation raise, and also at one place immediately above No.2 Level. It is possible for this 'replacement' ore to be skarn, and this should be investigated.

Vein Mineralization

It is very likely that additional mineable vein reserves can be discovered at Camp McKinney, with persistent, detailed and methodical work. The very high unit value of the 1960's direct shipping ore is sufficient to justify a thorough search.

Prospective ground for additional vein-type reserves lies:

- 1. below the former stopes in the central part of the mine,
- 2. eastward along the vein, possibly offset by faults, from the eastern-most underground workings,
- 3. in the interval between the mine and the Sailor underground workings.

During the early days of the mine (prior to 1960), ore was not mined below No.4 Level in the productive central section of the old mine, the main vein apparently not having been discovered there. To explore there thoroughly, short crosscuts to drill stations and many fans of holes would have been required. Despite the fact that the old time miners apparently did not find ore below No.4 Level, there is no known reason to suspect absence of the vein at this depth in this area. Given the structural genesis scenario described earlier, one would expect the vein to be present in the central sections of the mine below No.4 Level.

Being closer to the intrusion, the disruption below No.4 Level due to shouldering-aside (up and to the north) is likely greater than in the more distant productive levels above No.4. Since some early but well placed surface exploratory drill holes from the south have apparently failed to core the down-dip projection, it seems very likely that the extensions will be found to the north, ie. north of the stopes in the central sections. Deep drilling from the north would give the best chance for proving, or disproving, this theory; (deep drilling from the south for a specific target could miss the vein by passing through a flat fault, but if the same target were drilled from the north, the vein if present, would be cored twice, once above and once below the flat fault).

Also, there are very good possibilities for finding more vein ore, as did W.E. McArthur, by exploring blocks of ground successively to the southeast, each block having a relative faulted displacement downwards and southwards from previously blocks. With a little stretching of the imagination, one can envision a tenuous relationship between the Cariboo-Amelia quartz-fissure system and the system in the Dayton Camp. It is therefore reasonable to conclude that there are good exploration possibilities between the two camps.

The use of painstaking and detailed magnetometer surveys along projected strike extensions of veins in the Camp McKinney area, and in other prospective areas in this geological environment, appears to be a valuable and viable prospecting and mapping tool for both veins and skarn. On the basis of the limited amount of electromagnetic work accomplished, similarly detailed VLF-EM work in this same environment appears to have more limited application for general prospecting, largely because of signal strength and general electromagnetic noise.

Respectfully submitted,

C.A.R. Lammle, PEng.

STATEMENT OF EXPENDITURES INCURRED

Professional Services		•	
C.A.R. Lammle	May 7,10,12-26, 1994	14 days @ \$250/day	\$ 3500.00
J.A. Chapman	May 17	1 day @ \$150/day	150.00
J.A. Chapman	May 18	1day @ \$350/day	350.00
Al Philipp	May 15-17	2½ day @ \$150/day	375.00
Chris Whatley	May 17-26	9 days @ \$150/day	1350.00
Jet Ranger Helicopter May 1	9	50% of invoice	1200.00
Ford 150 4x4 Pickup		includes fuel	1308.00
Supplies, ribbon, global position	oning instrument statione	ry, etc	388.00
Magnetometer rental May,	1994		300.00
VLF Electromagnetometer ren	tal		300.00
14 ICP Assays, Acme Analytic	al @ \$16.28 each		160.00
Data reduction, drafting, report	t preparation - Lammle 6	days @ \$250/day	<u>1500.00</u>

TOTAL EXPENDITURES CLAIMED

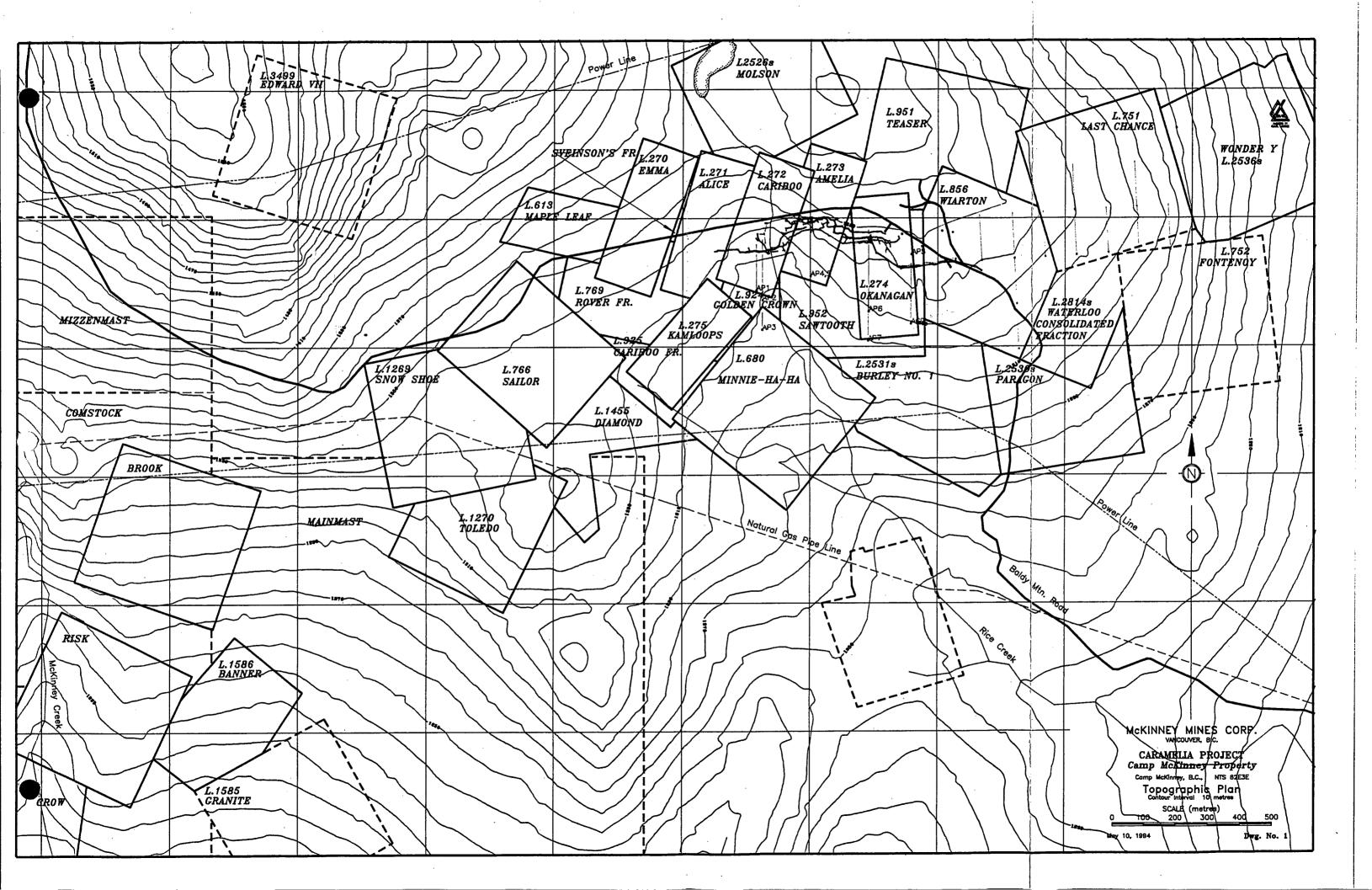
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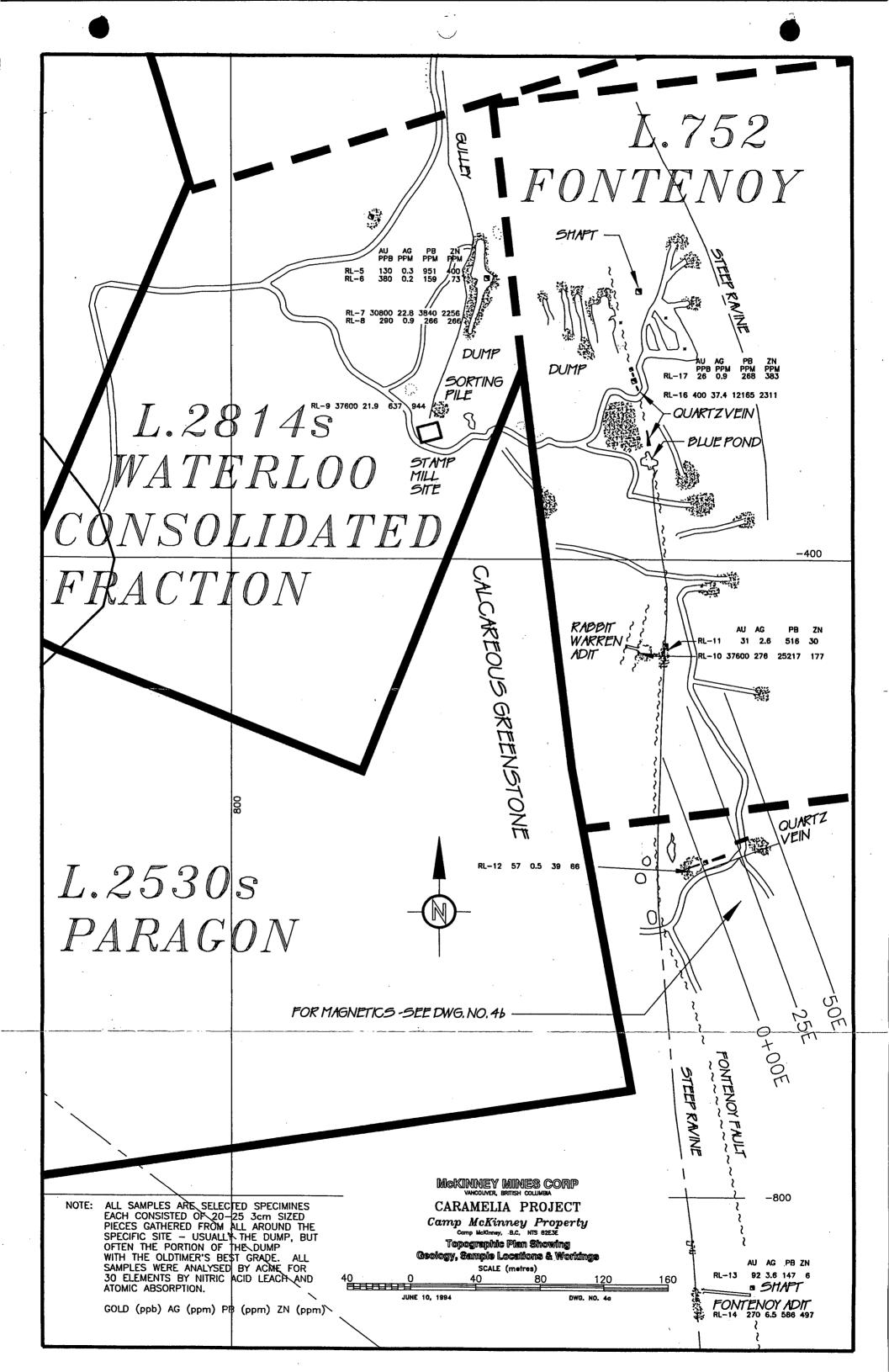
C.A.R. Lammle, PEng.

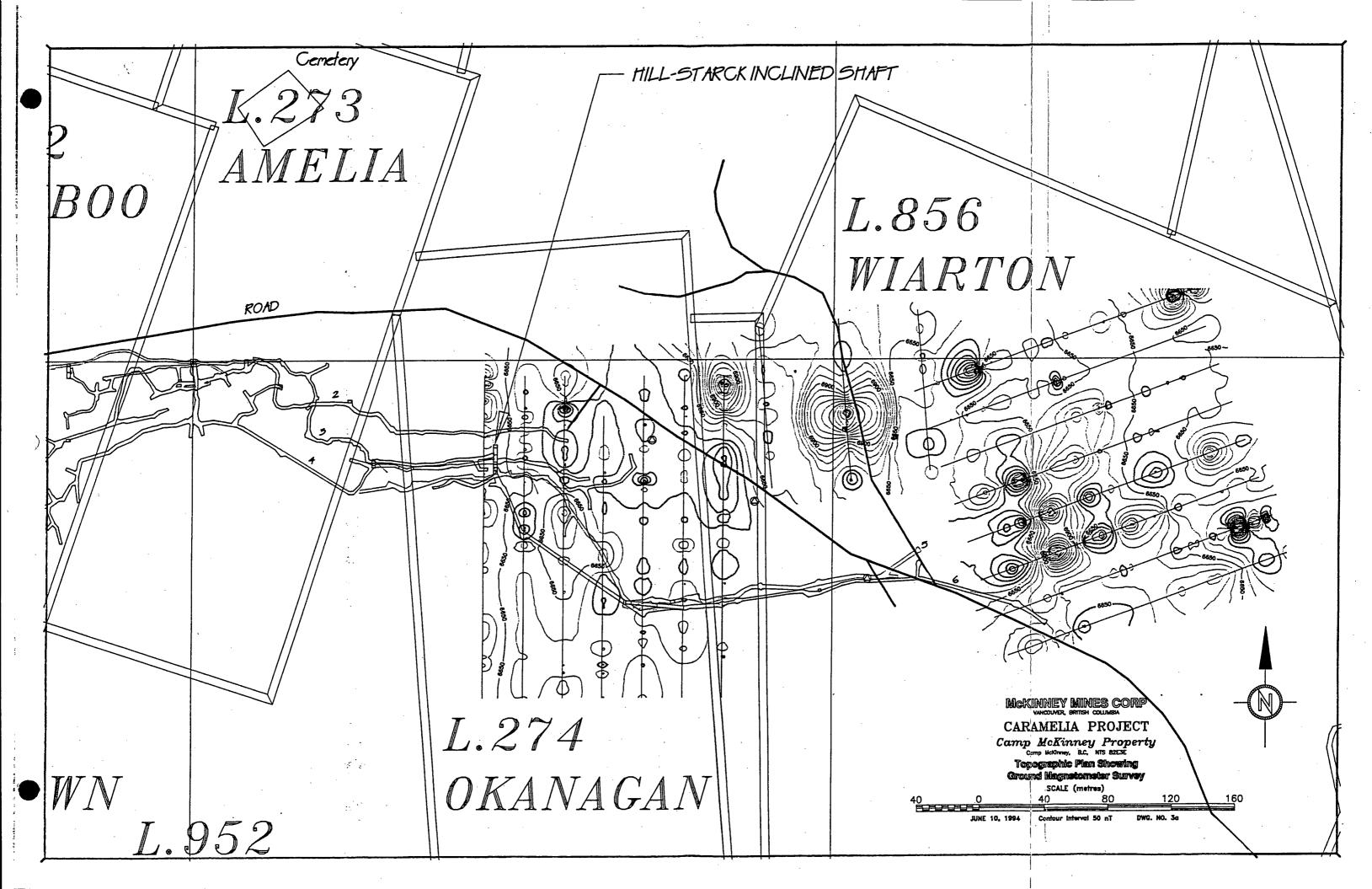
BIBLIOGRAPHY

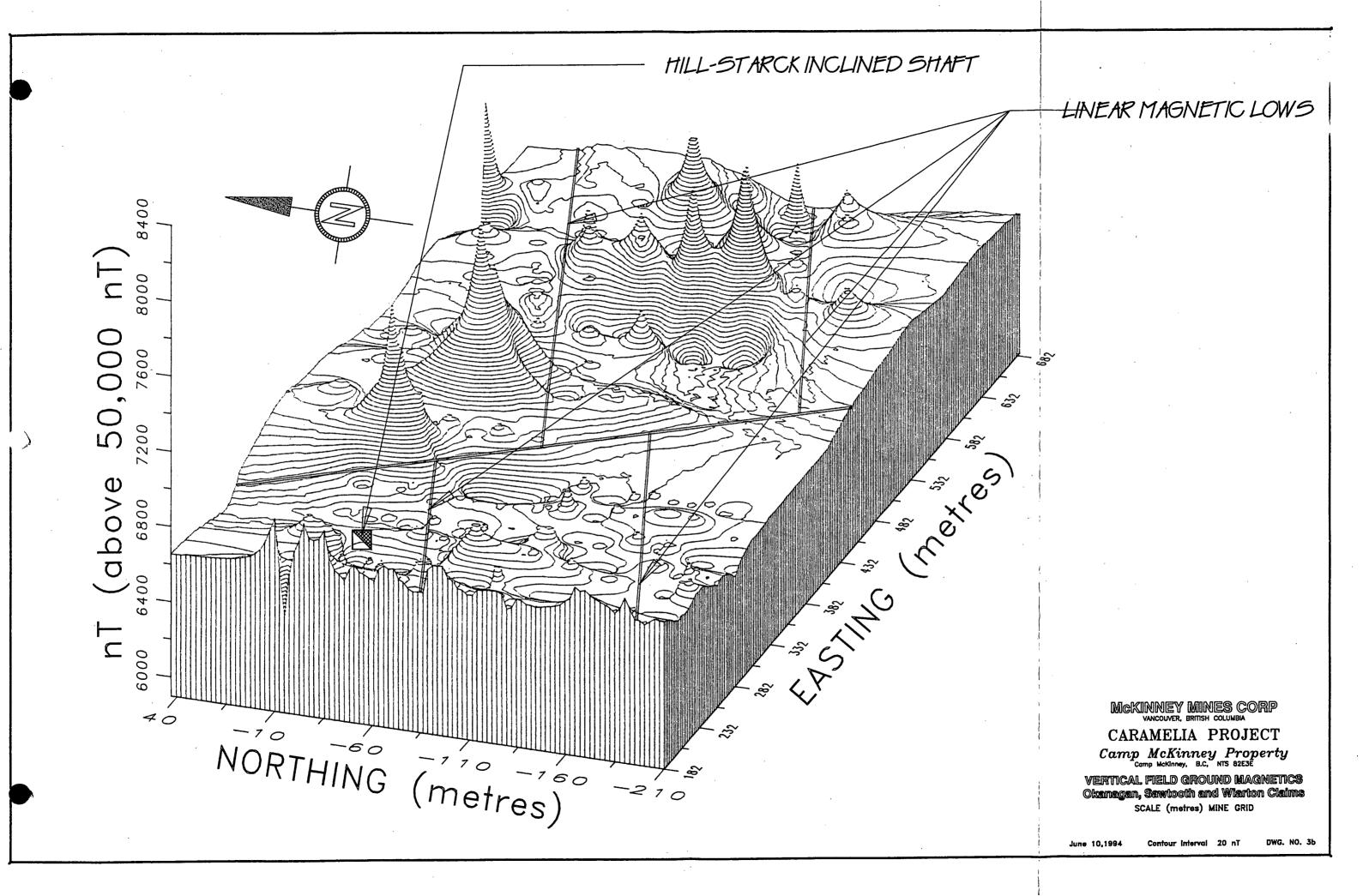
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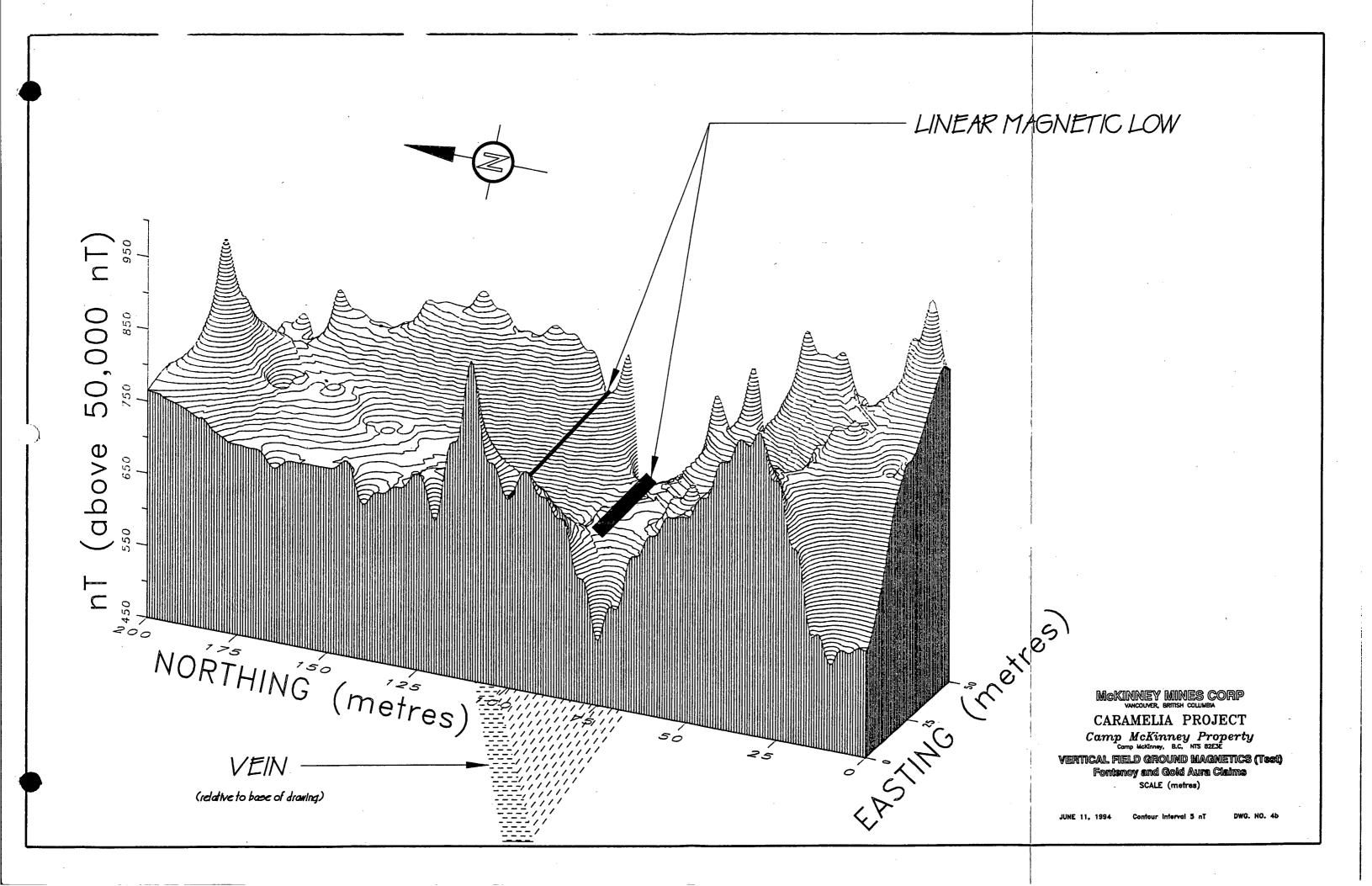
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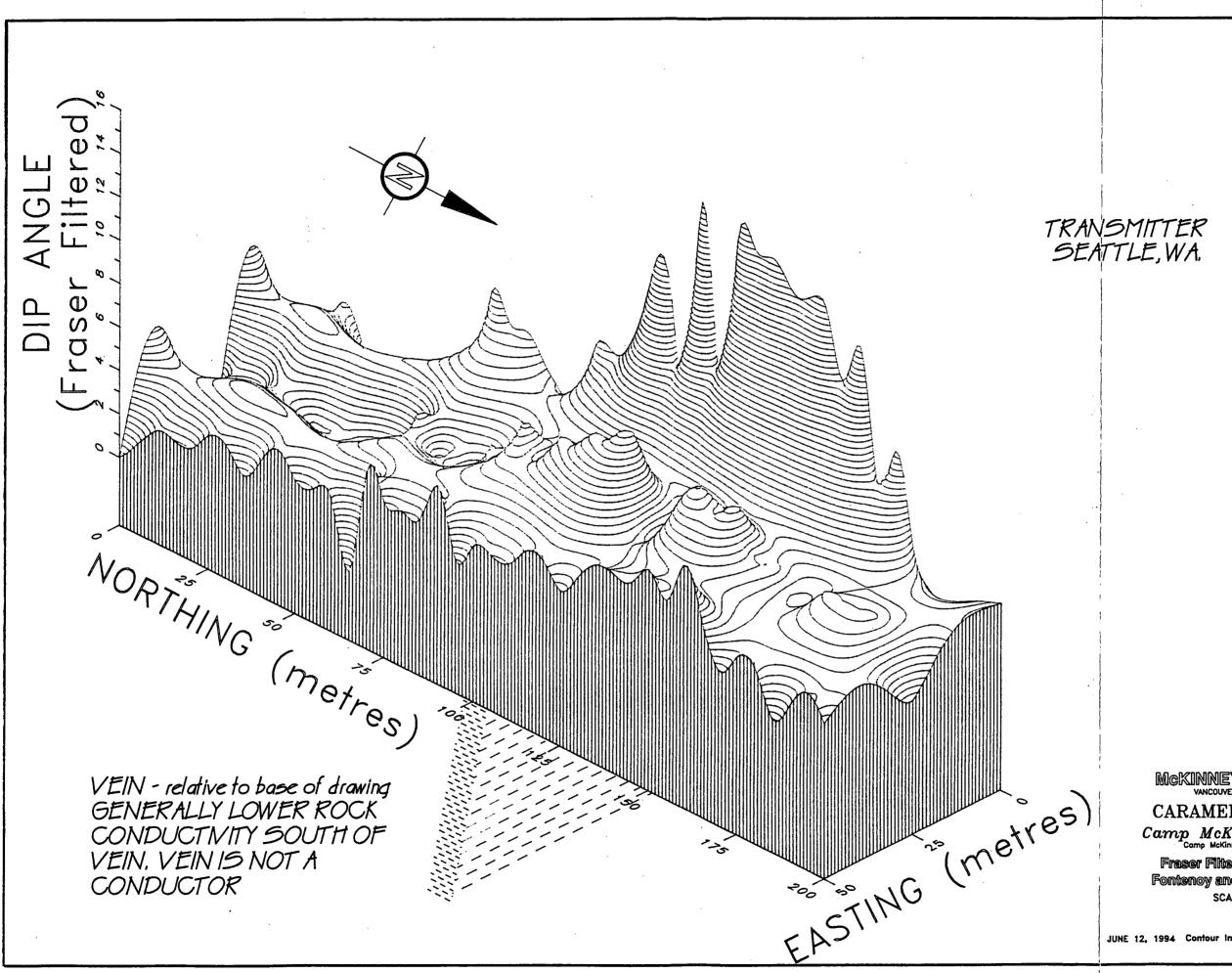










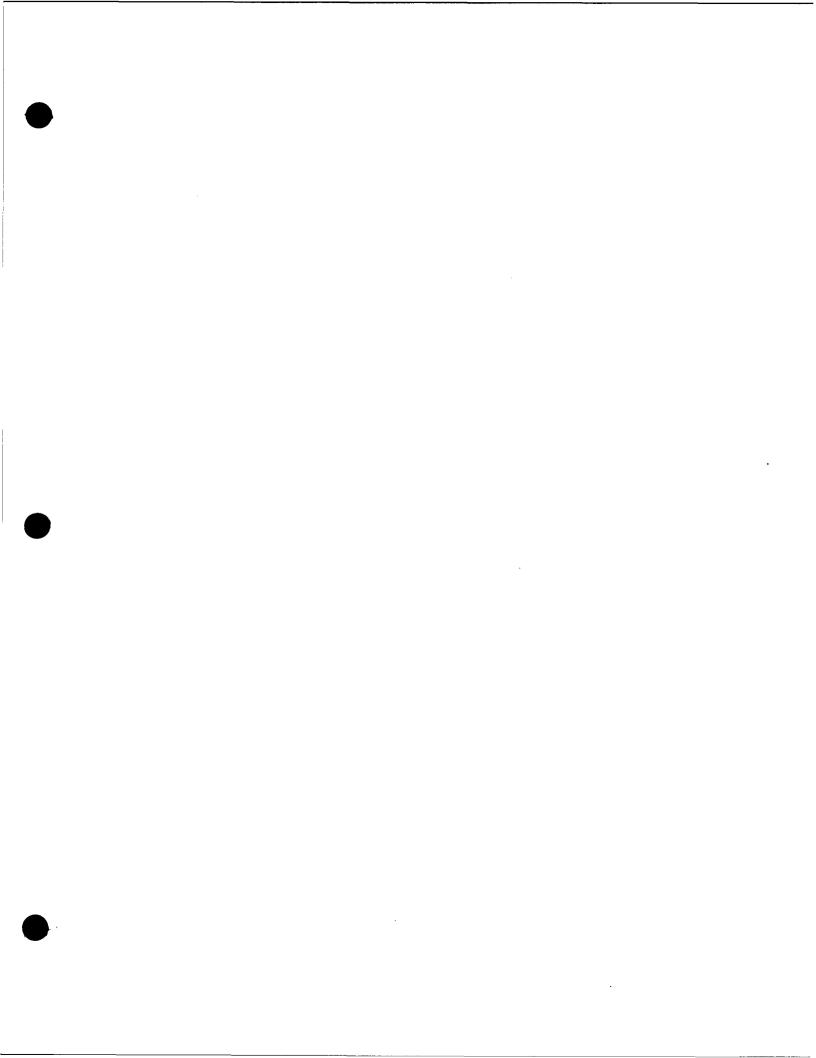


CARAMELIA PROJECT

Camp McKinney Property
Comp McKinney, B.C. NTS 82E3E

Fraser Filtered VLF Readings
Fontency and Gold Aura Claims
SCALE (metres)

JUNE 12, 1994 Contour Interval 0.25 degrees DWG 940612-1



CARAMELI	A PROJECT	1994 MAG	NETOMETER
	NORTHING	nT	
465.232	-15.071	6613	
469.93	-13.361	6515	
474.629	-11.651	6420	
479.327	-9.941	6295	
484.025	-8.231	6193	
488.724	-6.521	6067	
493.422	-4.811	6755	
498.121	-3.101	6712	
502.819	-1.39	6690	
507.518	0.32	6681	
512.216	2.03	6644	
516.915	3.74	6622	
521.613	5.45	6676	
526.312	7.16	6690	
		6566	
531.01	8.87		
535.709	10.58	6568	
540.407	12.29	6681	
545.106	14	6722	
549.804	15.711	6668	
554.502	17.421	6651	
559.201	19.131	6681	
563.899	20.841	6734	
568.598	22.551	6764	
573.296	24.261	6697	
577.995	25.971	6644	
582.693	27.681	6655	
587.392	29.391	6641	
592.09	31.101	6612	
596.789	32.812	6586	
601.487	34.522	6512	
606.186	36.232	6416	
610.884	37.942	5852	
615.582	39.652	5974	
620.281	41.362	6728	
624.979	43.072	7115	
473.782	-38.564	6547	
478.481	-36.854	6589	
483.179	-35.143	6713	
487.878	-33.433	6661	
492.576	-31.723	6715	
497.274	-30.013	6708	
501.973	-28.303	6734	
506.671	-26.593	6749	
511.37	-24.883	6698	
516.068	-23.173	6667	
520.767	-21.463	6655	
525.465	-19.752	6602	
530.164	-18.042	6686	
534.862	-16.332	6674	

GRID IS MINE GRID. OPIGIN AT CENTER OF OLD 1890'S "MAIN SHAFT"

ADD 50,000 nT to each MAG RDG.

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544.259	-12.912	6667		
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553.656	-9.492	6633		
558.354	-7.782	6640		
563.053	-6.072	6655		
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605.339	9.319	6629		
610.038	11.029	6649		
614.736	12.739	6664		
619.434	14.45	6674		
624.133	16.16	6682		
628.831	17.87	6677		
633.53	19.58	6703		
482.333	-62.056	6636		<u> </u>
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557.508	-34.694	6789		
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571.603	-29.564	6586		
576.302	-27.854	6655		
581	-26.144	6653		- N- 11 - 12 - 12 - 12 - 12 - 12 - 12 -
585.699	-24.434	6674		
590.397	-22.724	6633		
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599.794	-19.303	6607		
604.493	-17.593	6628		
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0 10.000	-12.700	0007		

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	519.074	-75.288	6120		
-	523.772	-73.578	6589		1
ļ	528.471	-71.867	6737		! !
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-	542.566	-66.737	6945		1
	547.265	-65.027	6909		
-	551.963	-63.317	7010		
-	556.663	-61.607	6934		·
Ļ	561.36		6832		
Ļ		-59.897			
Ļ	566.059	-58.187	6681		:
L	570.757	-56.477	6688		1
	575.455	-54.766	6696		1
	580.154	-53.056	6679		
	584.852	-51.346	6634		F
Γ	589.551	-49.636	6571		<u> </u>
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	598.948	-46.216	6667		
	603.646	-44.506	6655		!
T	608.345	-42.796	6622		į
-	613.043	-41.086	6626		i .
-	617.743	-39.376	6610		!
+					<u> </u>
-	622.44	-37.665	6650		<u> </u>
	627.139	-35.955	6666		
	631.837	-34.245	6630		
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	650.631	-27.405	6658		
	499.434	-109.041	6515		
	504.132	-107.33	6441		· · · · · · · · · · · · · · · · · · ·
\vdash	508.831	-105.62	6349		i
+	513.529	-103.02	6403		
-	513.329	-103.91	6230		
-					!
-	522.926	-100.49	6460		
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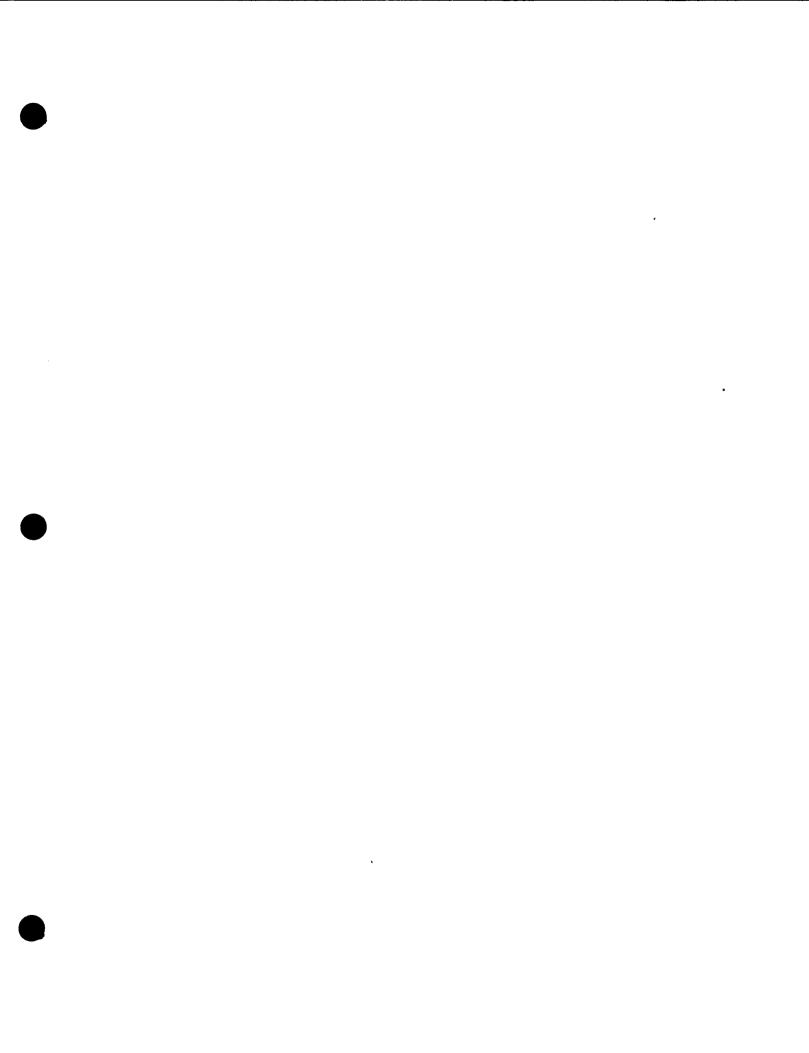
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	331.76	-20	7198		
	331.76	-25	7000		
	331.76	-30	7000		
	331.76	-35	6710		
	331.76	-40	6577		
	331.76	-45	6587		
	331.76	-50	6554		
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	331.76	-55		***	
	331.76	-60	6380		
	331.76	-65	6375		
	331.76	-70	6424		
	331.76	-75	6437		
	331.76	-80	6442		
	331.76	-85	6425		
	331.76	-90	6458		
	331.70	-90	0430		

331.76	-95	6510
331.76	-100	6450
331.76	-105	6583
331.76	-110	6594
331.76	-115	6672
331.76	-120	6519
331.76	-125	6523
331.76	-130	6498
331.76	-135	6523
331.76	-140	6616
331.76	-145	6541
331.76	-150	6637
331.76	-155	6581
331.76	-160	6571
331.76	-165	6585
331.76	-170	6568
331.76	-175	6599
331.76	-180	6623
331.76	-185	6539
331.76	-190	6555
331.76	-195	6575
331.76	-200	6585
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	CARAMELIA PROJECT			
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		add 50,000	nT	
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	0	170	713	
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	0	145	721	
	0	140	665	
	0	135	685	
	0	130	698	
	0	125	722	
	0	120	662	
	0	115	776	
	0	110	893	
	0	105	757	
	0	100	711	
	0	95	755	
	0	90	724	
	0	85	699	
	0	80	621	
	0	75	539	
	0	70	587	
	0	65	666	
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	25	190	934	
	25	185	857	
	25	180	785	
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	25	170	760	
	25	165	746	
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	25	105	-3	
	25	100	-2	
	25	95	-1	
	25	90	-3	
	25	85	-4	
	25	80	-3	
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	25	70	2	
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	25	60	-7	
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