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**REPORT
on the**

LUCKY STRIKE CLAIM GROUP

**Camborne Area
Revelstoke Mining Division
Southeastern British Columbia**

FILED

for

GRANGES EXPLORATION LTD.

November 25, 1988

**P.J. DeVeaux
Consulting Geologist**

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**GEOLOGICAL BRANCH
ASSESSMENT REPORT**

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APPENDIX I

Horizontal Loop Electromagnetic Survey Map, 131-1

Geochemical Results for Gold, Silver, Copper, Lead, Zinc, and Arsenic on Red Horse Claim shown on Map 131-2

Geochemical Results of Resampled Sites for Gold Shown on Maps 131-2, 131-3, 131-4

Plan of Lucky Jack Vein - Figure 5 *131-2*

Plan of Drill Road Vein - Figure 6 *131-2*

Plan of Eva 7A Drift - Figure 7 *131-2*

Plan of Oyster-Criterion No. 2 Drift - Figure 9 *131-2*

APPENDIX II

Soil Assay Certificates

ETK #	463-1 to 463-4	1 Page
	481-1 to 481-59	2 Pages
	482-1 to 482-14	1 Page
	483-1 to 483-13	1 Page
	514-1 to 514-30	1 Page
	554-1 to 554-6	1 Page
	651-1 to 651-6	1 Page
		TOTAL = 8 Pages

Rock Assay Certificates

ETK	460-1 to 460-24	1 Page
	461-1 to 461-43	2 Pages
	480-1 to 480-22	1 Page
	511-1 to 511-7	1 Page
	513-1 to 513-27	1 Page
	526-1 to 526-22	1 Page
	535-1 to 535-25	1 Page
	552-1 to 552-9	1 Page
	650-1	1 Page
		TOTAL = 10 Pages

APPENDIX III

APEX MAXMIN II EM SYSTEM SPECIFICATIONS

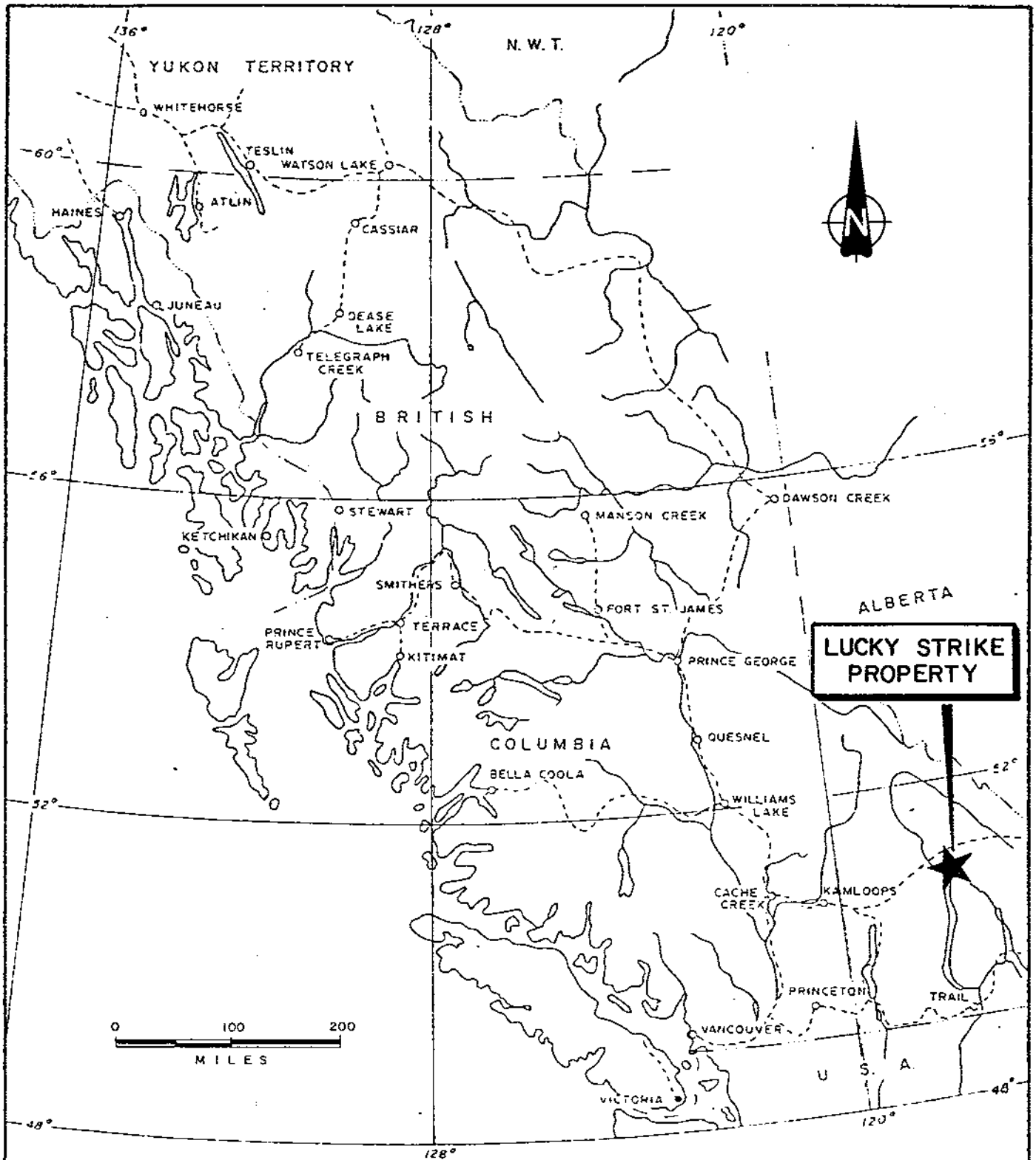
1.0 Introduction

- 1.1 The purpose of this report is to summarize the results of the exploration and development work done on the ground held by the Lucky Claim Group and assess the mine making potential of the property.
- 1.2 The program was conducted under the direction of P.J. DeVeaux, consulting geologist, between August and October 1988. A horizontal loop electromagnetic survey was successful in locating two anomalies on the Mascotte, Steve Na Mon and Meridian claim group. One of these, located on the Mascotte - Steve Na Mon claims, appears to coincide with the Lucky Jack vein structure. The number two or lowest adit on the Oyster Criterion vein structure was reopened and the underground workings were mapped and sampled. Unfortunately, an area along the vein structure at the southern end of the drift underneath a stoped area could not be entered due to unstable ground conditions.

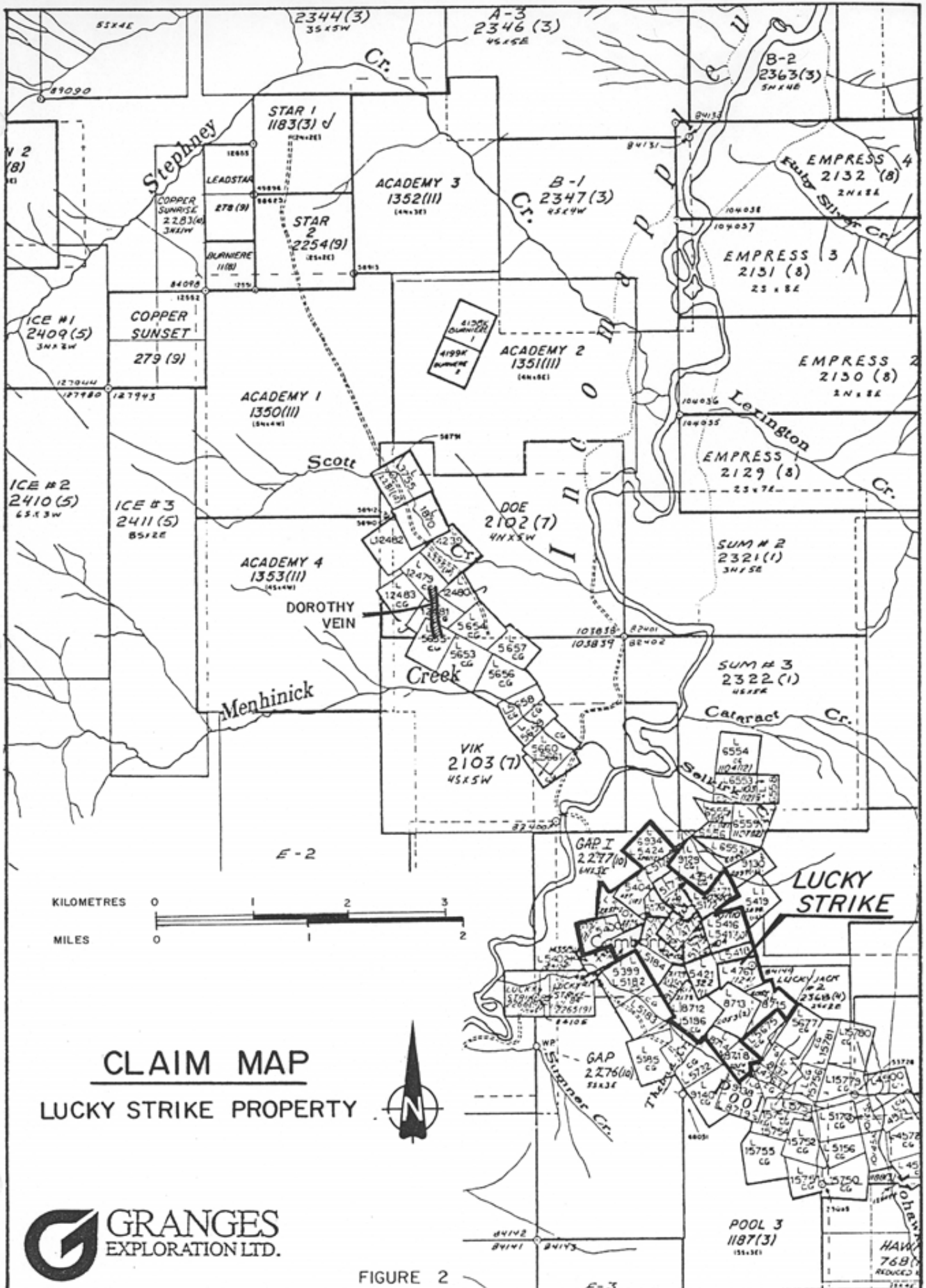
A program of diamond drilling to explore at depth the Oyster Criterion as well as the Eva structure is recommended.

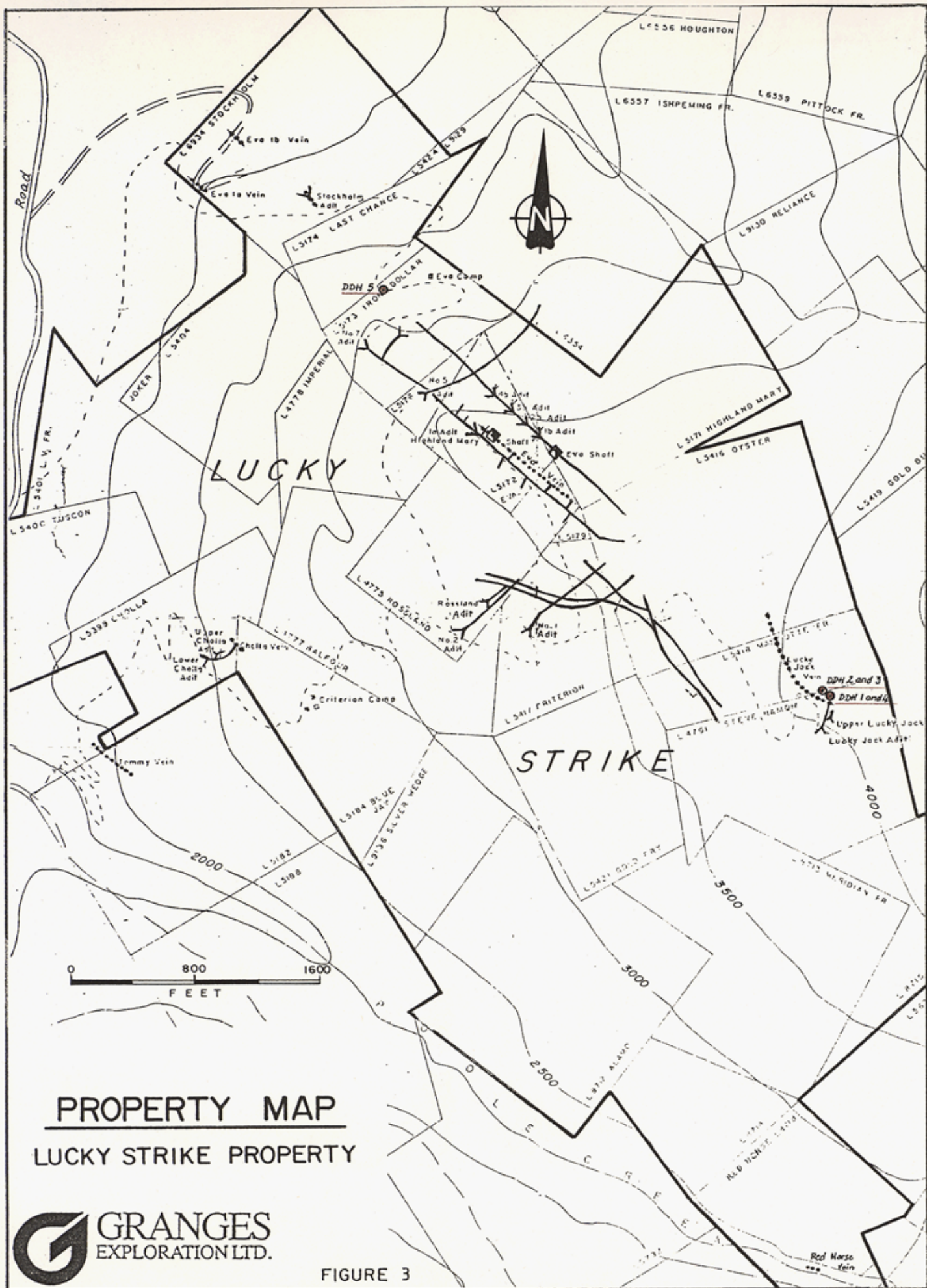
2.0 Summary and Conclusions

- 2.1 The Lucky Group of mineral claims consists of 26 reverted crown grants covering an area of over 526.5 acres located some 40 km SE of Revelstoke, B.C.
- 2.2 Access to the property is by road.
- 2.3 The Lucky Group was optioned from Lucky Strike Resources Ltd. by Granges Exploration Ltd. on January 23, 1987.
- 2.4 The claim area is underlain by metasediments and volcanics of the Lardeau group of Paleozoic age. A regional fault structure strikes across the map sheet for many kilometres extending from the Teddy Glacier to the north, and southerly through the Windflower/Granges property (across the Fish River Valley) to the Slocan. A system of shearing and faulting trending sub-parallel to the sediment - volcanic horizons are host to the quartz-bearing veins which contain gold mineralization.
- 2.5 A program of grid chaining (17.9 km) horizontal loop electromagnetic surveys (12.37 km), geochemical soil sampling (130 samples), surface rock sampling (123 samples), underground vein sampling (29 samples), blasting, trenching, road building and adit reopening was done in 1988 under the direction of DeVeaux Exploration Services Ltd., a private exploration company controlled by the writer based in B.C. The writer was assisted by Allen Johnson, geologist; Dave Adams, geological technician; Rod Fairburn, surveyor; Elie Bouchard, miner and blaster; Jerry Studer, geophysical operator, and six local workers who carried out the chaining and soil sampling.
- 2.6 It is concluded that the Lucky Claim Group is an attractive exploration and development bet in a favourable geological environment to discover quartz veins containing economic reserves of gold. The property warrants diamond drilling at depth on the Eva-Oyster criterion vein structures. Several shallow holes are recommended to explore two horizontal loop E.M. anomalies, one of which may be an extension of the Lucky Jack Vein which contains gold on surface and underground.



LOCATION MAP



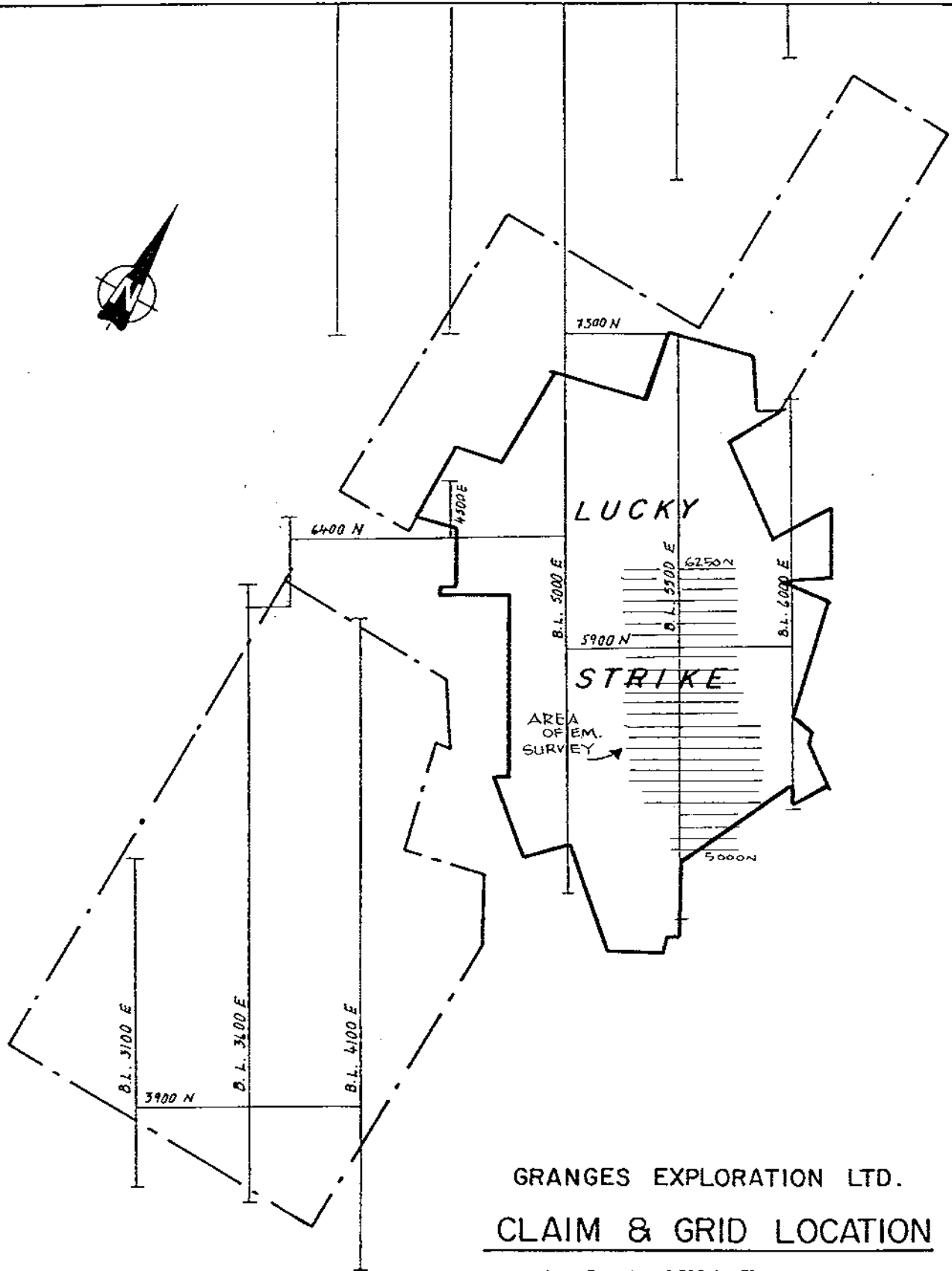


PROPERTY MAP

LUCKY STRIKE PROPERTY

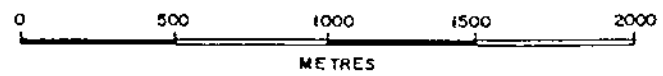


FIGURE 3



GRANGES EXPLORATION LTD.
CLAIM & GRID LOCATION
LUCKY STRIKE PROPERTY

REVELSTOKE MINING DIVISION, B.C.



SCALE: 1 : 2 500 0

FIG. 3A

3.0 The Property

The Lucky Strike group of mineral claims consists of 26 reverted crown grants covering an area of over 526.5 acres located in the Revelstoke Mining Division, British Columbia. The following is a list of claims comprising the property.

GROUP 1

<u>Reverted</u>	<u>Crown Grants</u>	<u>Area (Ac)</u>	<u>Remarks</u>
L4761	Steve Na Mon	29.73	
L5418	Mascotte Fr.	13.44	
L5421	Gold Fly	24.03	
L2624	Balfour Fraction	25.62	(Status pending decision by Gold Commissioner)
L2625	Blue Jay Fraction	21.45	(Status pending decision by Gold Commissioner)
L5417	Criterion	15.76	
L4775	Rossland	21.50	
L5171	Highland Mary	34.75	
L5172	Eva	10.65	
L5176	Wedge Fraction	2.49	
L5173	Iron Dollar	14.75	
L5416	Oyster	42.51	
L6734	Stockholm	1.13	
L5424	Stockholm Fr.	32.37	
L5404	Joker	23.62	
L5174	Last Chance	13.21	
L5399	Cholla	18.00	TOTAL 345 ACRES

GROUP II

L8715	Lucky Jack	13.42	
L8714	J.J. Davis	87.14	
L8718	Red Horse	9.51	
L8713	Meridian Fraction	17.50	
L5400	Tucson	12.23	
L4778	Imperial	5.57	
L5401	L.V. Fraction	9.34	
L9136	Silver Wedge	7.20	
L8712	Alamo	19.57	TOTAL 181.5 ACRES

TOTAL I AND II = 526.5 ACRES

3.2 Location

- 3.3 The Lucky Strike group of mineral claims is located some 40 km SE of the town of Revelstoke, British Columbia, above the old mining town of Camborne on the east side of the Incommapleux River which flows into the northeast arm of Upper Arrow Lake.

The property elevation is variable from just under 500 m (1,600 feet) near the Incommapleux (Fish) River near the northwest boundary of the Lucky Strike ground to over 1,219 m (4,000 feet) above sea level.

3.4 Access

- 3.5 The property is accessible via Highway 31 from the Galena Bay ferry on Upper Arrow Lake. It is 18 km to the Beaton/Camborne junction, then 16 km farther through the old mining town of Camborne to the turnoff near the bridge crossing the Fish River. From this point at the valley bottom (500 m elevation) it is a further 2.5 km via switchback access road to the upper Eva workings over a vertical height of 900 m. The Lucky Jack workings are located a further 730 m at the 1,219 m level.

The usual summer working season for the property extends from late May to November.

4.0 History

- 4.1 At the turn of the century, a number of thriving mining communities such as Trout Lake, Fergusson and Camborne existed in the Lardeau district. Most of the initial interest in the area resulted from the Eva gold discovery on the Iron Dollar claim in 1900 with the subsequent mining and milling of 31,656 tons averaging 0.219 ounces gold over a period of 30 years. Following the discovery, the Criterion and Meridian structure produced some 56,086 tons of 0.148 ounces au and 10,102 tons of 0.100 was mined from the adjoining Oyster claim. On the Lucky Jack vein, located on the Steve Na Mon claim, the lower of two adits is reported to have intersected 0.37 ounces gold over 14 feet and 12 feet averaging 0.390 ounces gold. This vein is exposed on surface and two grab samples taken by the writer averaged 17.50 grams and 41.40 grams gold respectively. The Spider or Sunshine Lardeau and now K-2 at Camborne mined and milled 141,000 tons at 0.08 ounces Au, 12.2 ounces Ag, 8.5% Pb and 9.0% Zn.

5.0 Current Activity

- 5.1 Granges Exploration Ltd., through a joint venture with Windflower Mining Ltd. has explored via an underground decline the Independence property. Granges has outlined by surface diamond drilling some 150,000 tons averaging 0.20 ounces gold. The ore is contained in a mineralized quartz vein on the Dorothy Crown grant located just across the valley from the Lucky Strike ground at an elevation of 1,066 m (3,500 feet).

6.0 Regional Geology

- 6.1 The claim area is underlain by metasediments and volcanics of the Lardeau group of Paleozoic age. A regional fault structure strikes across the map sheet for many kilometres extending along the northeast side of Trout Lake and southerly towards the Slocan. Numerous mineral properties have been staked along this trend over the years, including such producers as the Spider mine located at Camborne which produced some 141,000 tons of gold, silver, lead, and zinc ore.

6.2 Property Geology

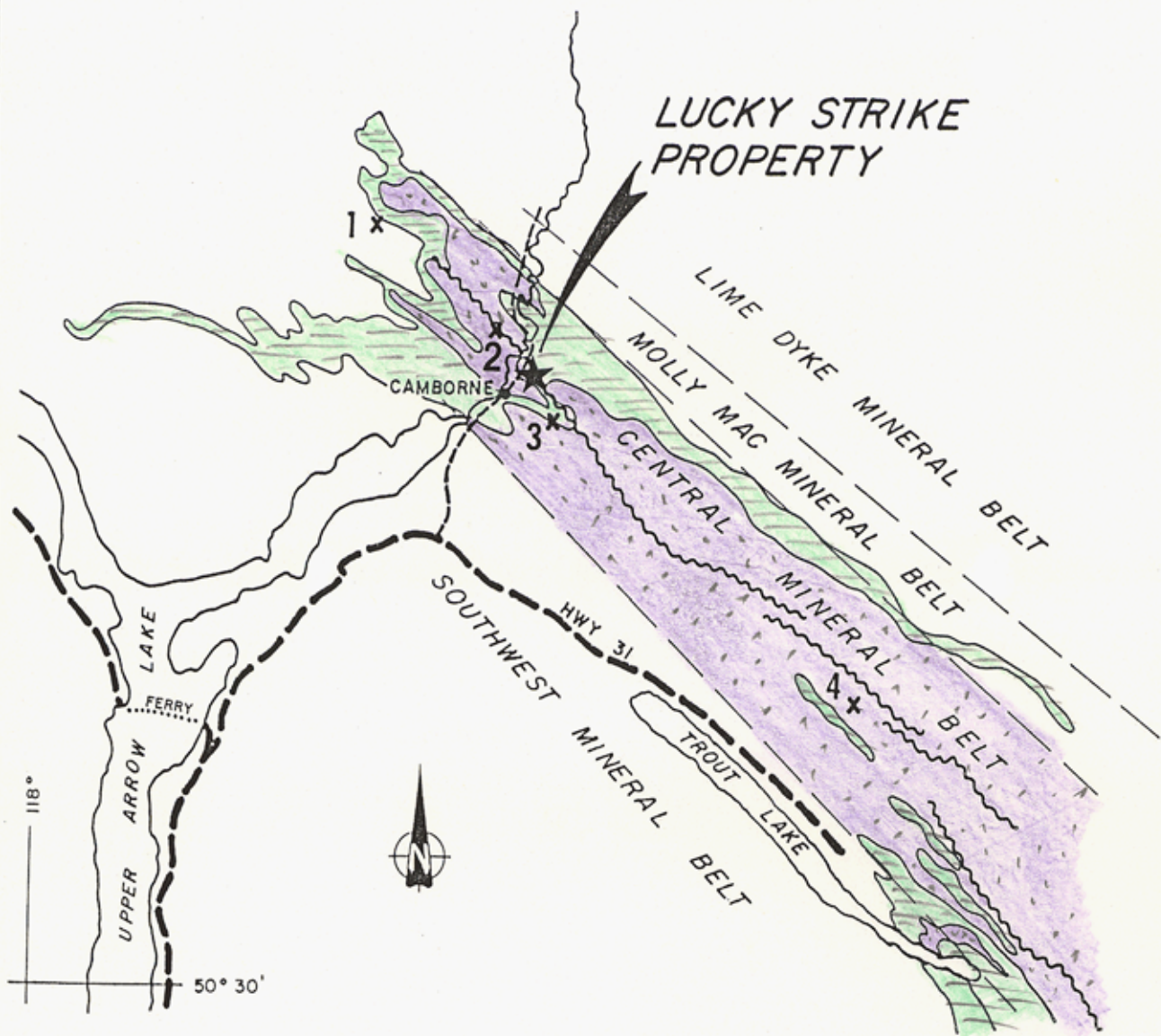
- 6.3 The claim area is underlain by the Broadview argillities, graphitic argillities, phyllites, (dolomites?), and Jowett andesitic volcanics. The major structural break or shear which extends across the claim group from northwest to southeast may be more or less following the contact between the metasedimentary Broadview Formation and the predominantly volcanic Jowett Formation.

Quartz veining varying from narrow quartz veinlets of just a few centimetres in width to veins of many feet occur on the property apparently associated with the regional fault structure. The quartz veins appear as stockworks in some areas. This is evident at the upper or southern end of the Eva mine structure. Large masses of quartz were developed as a result of stockwork where the cross-veins join the main "A" and "B" veins. Such areas appear to be enriched in pyrite mineralization containing gold. Generally, the main quartz veins appear to strike nearly parallel with the general strike of the argillaceous Broadview Formation (N25 degrees west to N45 degrees west). Dips are generally steep at the Eva but flatten to 35 degrees on the Lucky Jack vein.

7.0 Mineralization

- 7.1 The gold bearing quartz vein systems, the target of exploration on the property, appear to be structurally related to a major shear zone which runs northwesterly-southeasterly across the property. Although overburden obscures the strikes and attitudes of most veins, there appears to be an en-echelon pattern to some of the veining (Eva Mine) parallel or nearly parallel to the strike of the shear (approximately 329 degrees).

The quartz veins contain iron-rich carbonate (siderite and/or ankerite) and small quantities of sulphides with free gold. The sulphides are predominantly pyrite sometimes crystallized in the form of cubes with lesser galena and sphalerite. Gold occurs, visible to the naked eye, both in the solid quartz, in seams in the quartz, and along the selvedge of a vein. It is often concentrated along the walls of the vein or around the inclusions. As the walls and inclusions are often highly graphitic as in the Eva "B" vein, the graphite may be responsible for the enrichment.

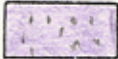



**LUCKY STRIKE
PROPERTY**

MINERAL DEPOSITS

- 1 TEDDY GLACIER
- 2 WINDFLOWER
- 3 SPIDER
- 4 SILVER CUP

LARDEAU GROUP

-  BROADVIEW FORMATION
-  JOWETT FORMATION



By L.B. Goldsmith, A.J. Sinclair, P.B. Read, 1986

REGIONAL GEOLOGY
LUCKY STRIKE PROPERTY

8.0 Exploration Work Carried Out During 1988

- 8.1 Line cutting and chaining.
- 8.2 A horizontally chained and flagged grid totalling 17.9 km was picketed from 4900N to 6250N between 5250E and 5750E and from 4500N to 4900N between the 5000E baseline and 5250E. Stations were established every 25 meters and are indicated by a firmly placed picket which is marked and flagged.

9.0 Geophysical Surveys

9.1 SURVEY PROCEDURE

MAX-MIN II

Theory

The Max-Min II is a frequency domain, horizontal loop electromagnetic (HLEM) system, based on measuring the response of conductors to a transmitted, time varying electromagnetic field.

The transmitted, or primary EM field is a sinusoidally varying field at any of five different frequencies. This field induces an electromotive force, (emf), or voltage, in any conductor through which the field passes. This is defined by:

$$\oint E \cdot dl = - \frac{2\phi}{2t} \text{ (the Faraday Induction Principle)}$$

where E is the electric field strength in volts/meter (and so $\oint E \cdot dl$ is the emf around a closed loop) and ϕ is the magnetic flux through the conductor loop. This emf causes a "secondary" current to flow in the conductor in turn generating a secondary electromagnetic field.

This changing secondary field induces an emf in the receiver coil (by the Faraday law) at the same frequency, but which differs from the primary field in magnitude and phase. The difference in phase (the phase angle) is a function of the conductance of the conductor(s), both the target and the overburden and host rock. The magnitude of the secondary is also dependent on the conductance, and also on the dimensions, depth, and geometry of the target, as well as on the interference from overburden and the host rock.

These two parameters (phase angle and magnitude) are measured by measuring the strength of the secondary field in two components: the real field or that part "in-phase" with the primary field; and the imaginary field, or that part in "quadrature" or 90° out of phase from the primary field.

The magnitude and phase angle of the response is also a function of the frequency of the primary field. A higher frequency field generates a stronger response to weaker conductors, but a lower frequency tends to pass through weak conductors and penetrate to greater depth. The lower frequency also tends to energize the full thickness of a conductor, and gives a better measure of its true conductivity-thickness product (conductance).

For these reasons two or more frequencies are usually used; the lower for penetration and accurate measure of good conductors, and the higher frequency for strong response to weak conductors.

Distinction between conductive targets, overburden, and host rock responses are made by studying the shape of the secondary field, and the difference in the frequency responses.

The transmitted primary field also creates an emf in the receiver coil, which is much stronger than the secondary, and which must be corrected for by the receiver. This is done by electronically creating an emf in the receiver, whose magnitude is determined by the distance from receiver to transmitter as set on the receiver, and whose phase is derived from the receiver via an interconnecting wire.

9.2 Field Method

The Max-Min II survey was carried out in the "maximum coupled" mode (horizontal co-planar). The transmitter and receiver are carried in-line down the survey line separated by a constant distance (in this case 50 m) with the receiver leading. Two transmitter frequencies were used: 888 and 1777 Hz. The transmitter and receiver are connected by a cable, for phase reference and operator communication. The survey was carried out over a horizontally chained grid in rugged terrain.

9.3 Personnel and Equipment

The survey was completed by J.J. Studer of Flin Flon, Manitoba. The equipment used was an Apex Parametrics Max Min II+. Specifications for this instrument may be found in Appendix III.

9.4 Survey Specifications

- 9.5 The geophysical survey was carried out over a flagged and horizontally chained grid from 4900N to 6250N between 5250E and 5750E. A surveyed and cut line called the 5500E baseline runs through the center of the grid. A small area (lines 6000N and 6050N) near 5250E was too rugged and could not be covered by the survey.

10.0 Geochemical Surveys:

Sampling, Sample Preparation and Analytical Procedures

- 10.1 A total of 130 soil samples were collected. Of this number, 72 samples were taken on the Red Horse claim at the southwest corner of the property. The results are shown on map no. 131-2. The remaining 58 soils were resamples of previously located soil anomalies. The assays for these samples are plotted on maps 131-2, 131-3, 131-4.
- 10.2 Samples were taken every 25 meters along flagged and compass lines spaced 50 meters apart. The 72 samples on the Red Horse claim were analyzed for gold (PPb) silver (PPm) copper, lead, zinc and arsenic (PPm).
Resampling of previous anomalous sites were analyzed for gold (PPb) only.
- 10.3 The soils were collected wherever possible from the "B" soil horizons by means of a small entrenching tool and placed in pre-numbered kraft paper envelopes. The samples were dried at room temperatures at the base camp.
- 10.4 The samples were shipped to Eco-tech Laboratories Ltd. in Kamloops, British Columbia.
- 10.5 In the Eco-Tech Laboratories, the soil samples were dried and then sieved through 80 mesh nylon sieves. The oversize fraction was stored for later use if requested. Analyses was by atomic absorption spectrometer after digestion of the sample with hot concentrated hydrochloric and nitric acids. Gold digestion was by fire assay preconcentration followed by aqua regia digestion and atomic absorption finish. The results for gold are expressed in ppb while those for silver, copper, zinc, lead and arsenic are given in ppm.
- 10.6 Presentation of results.
- 10.7 The results of the systematic soil geochemical survey are shown on three accompanying drawings on a scale of 1:2500. (Drawing no.'s 131-2, 131-3, 131-4 in Appendix I).

11.0 Results of The 1988 Mineral Exploration Program

- 11.1 A horizontally chained grid totally 17.9 km was picketed from 4900N to 6250N between 5250E and 5750E and from 4500N to 4900N between the 5000E baseline and 5250E.
- 11.2 A total of 12.37 km of horizontal loop electromagnetic surveys were completed over the Eva-Oyster-Criterion-Meridian-Lucky Jack vein structures. Two anomalous areas of poor conductivity were located. One is over the Lucky Jack horizon coincident with a strongly-graphitic shear exposed on surface and the other is located in steep terrain some 350 m to the SW (see Appendix I, map 131-1, Horizontal Loop E.M. Survey Map).

11.3 A total of 130 soil samples were collected. Of this number, 72 samples were taken on the Red Horse claim at the SW corner of the property (map no. 131-2). The other 58 soils were resamples of previously-located soil anomalies.

Several weakly-anomalous gold values were located on the new grid (see Appendix I, map 131-2). A 50 PPb and 65 PPb gold occur at 4850N, 5050E, and 5075E, a 40 PPb gold at 4900N, 5100E; and 60 PPb gold at 4600N, 5050E.

Several of the soil samples that were retaken turned out to be strongly anomalous. One sample retaken at 5000N, 5300E assayed 655 PPb gold.

Two previous high hold values of 125 PPb and 390 PPb on section lines 5050N and 4950N near the 5000E baseline were reduced to 30 PPb and 65 PPb gold, respectively (see Appendix I, map 131-2).

A previous high value of 910 PPb at 5500N, 5400E was retaken and assayed 515 PPb gold. No reason could be found for this high reading.

A series of anomalous values on section lines 5900N between the 5000E baseline and 5250E were generally much higher than the previous values. These high anomalous readings may be due to drainage from the No. 2 drift waste dump located up slope. Six soil samples retaken in an adjacent area located west and down slope of several old trenches and an old shaft, between section lines 5600N and 5750N from 5000E baseline and 5225E, returned anomalous gold values. However, except for one sample, values were considerably reduced from previous results. A grab sample taken from a stained white quartz vein located at 5650N, 5150E assayed 0.075 g gold only (see Appendix I, map 131-2).

In another area located on 6400N and 6450N between 4775E and 4975E, three of four soil samples duplicated previous anomalous gold values. One sample was reduced from 100 to 25 PPb gold. No source was found for these elevated values (see Appendix I, map 131-3).

Soil stations 5400E to 5475E on section line 7250N were retaken to check previous high gold geochemical values and turned out to be also highly anomalous. One soil sample assayed 1.39 g gold per tonne. This line is located in the river delta near a creek (see Appendix I, map 131-2).

11.4 Prospecting and Lithological Sampling - Surface

11.5 A total of 123 surface rock samples were collected in the follow-up of (1) geochemically anomalous areas, (2) resampling of known veins and adits, and (3) prospecting for new showings (see Appendix I, maps 131-2, -3, -4).

- 11.6 Four samples taken from the Red Horse vein and adit returned no significant values (see Appendix I, map 131-2).

The vein is of massive quartz with blebs and patches of sulphides (pyrite). It is located at an elevation of 823 m (2,700 feet). The vein has been traced up the mountain-side by a series of open-cuts and trenches which are now badly caved. At the portal, the vein is 14 feet wide, strikes N 25 degrees W and dips 70 degrees NE. The host rock is argillite to phyllite having a strike of N 25 degrees W with a near-vertical dip.

Prospecting for the source of a single high geochemical anomaly (1,000 PPb Au/1987) and (665 PPb Au/1988) situated at 5000N and 5300E located a barren andesite which carried no values (Appendix 1, map 131-2).

- 11.7 Sampling of the Evans adit and trench located immediately south of section 6300N between 5150E and 5175E returned significant values in two samples. One rubble sample consisting of quartz and solid sulphide (galena) assayed 8.94 g gold and 36.9% lead. A slightly mineralized quartz sample which was taken from a trench above the adit assayed 3.89 g gold. However, the vein from which these samples appeared to have originated from is discontinuous and the mineralization it contains is erratic (see Appendix I, map 131-3).

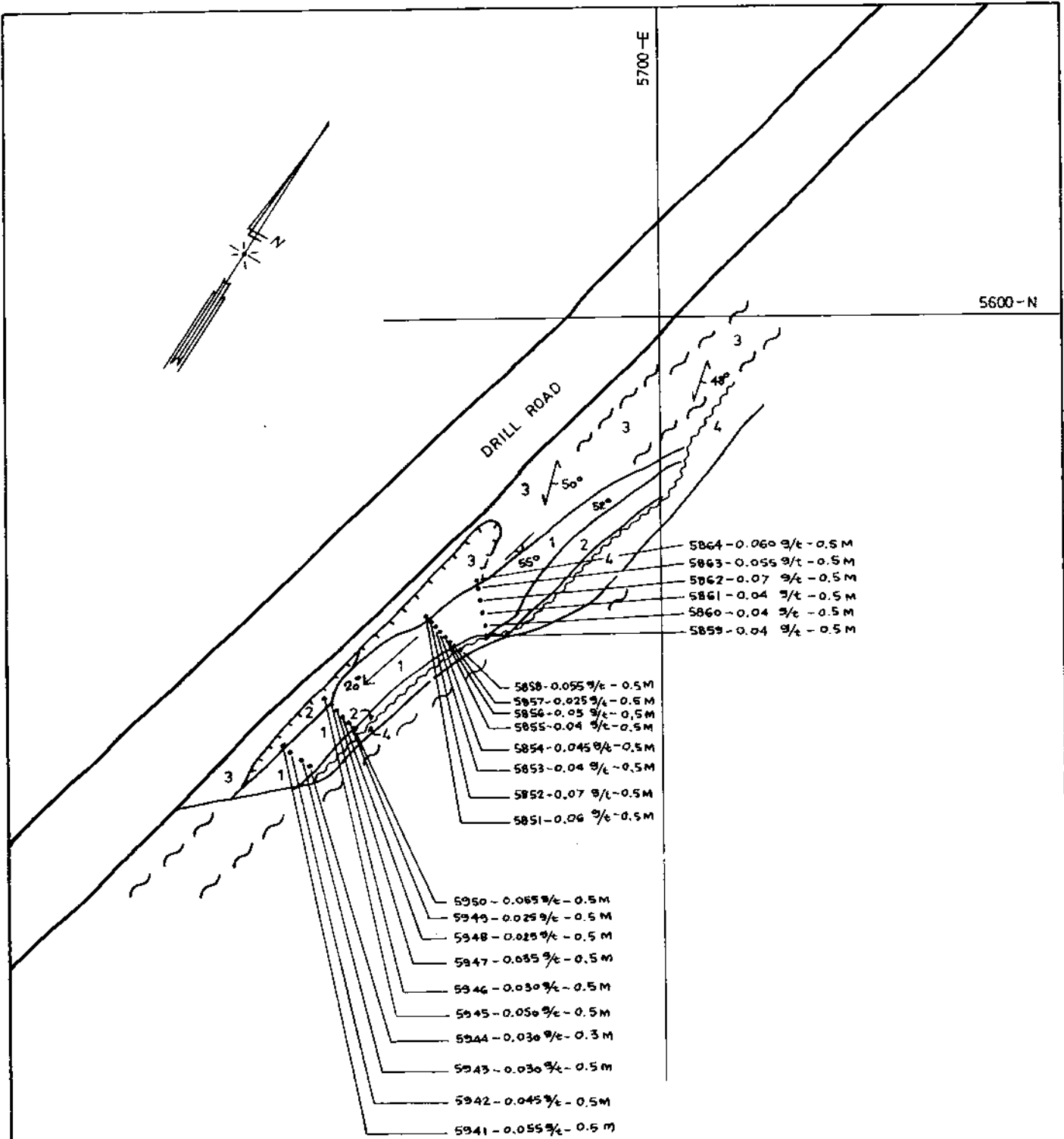
- 11.8 A quartz stringer located at 6200N, 5100E assayed 7.06 g gold (see map 131-3).

- 11.9 Two new quartz veins slightly mineralized with pyrite were discovered in the course of prospecting. Both are located in precipitous terrain between 6750N to 6900N and 5200E. The most significant values from eight samples taken were 1.68 g and 1.73 g gold. Prospecting in an area up slope from high geochemical soil values led to the discovery of a narrow quartz vein assaying 7.42 g gold. This vein is located on section 6950N at 5130E (see map 131-3).

- 11.9.1 Mineralized quartz from an old trench located immediately above an old adit (Stockholm?) just below the Lucky Strike road at 6970N, 5325E assayed 10.96 g gold. A sample taken from a quartz vein at the face of the same adit 10 m inside carried no values (see map 131-2).

- 11.9.2 The Lucky Jack vein located at the boundary of the Steve Na Mon (L4761) claim and Mascotte Fraction along the access road was stripped with a D-7 and trenched with a back hoe. The south end of the vein immediately above the adits from which two high grade grab samples were taken in 87 proved to be very irregular and badly broken up due to faulting. This would explain the lack of results from drilling during 1987. The northern end of the vein some 60 m away is much more competent, continuous and lacks faulting.

Figure 5 shows the detailed results of mapping and sampling on the Lucky Jack vein.



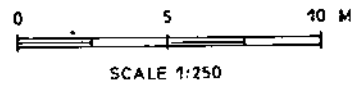
LEGEND

- 1 QUARTZ CARBONATE VEIN
- 2 GRAPHITIC FAULT GOUGE
- 3 ARGILLITE AND GRAPHITIC ARGILLITE

SYMBOLS

- TRENCH
- GEOLOGIC CONTACT
- CHANNEL SAMPLE LOCATION
- ATTITUDE OF QUARTZ VEIN
- TREND AND PLUNGE
- SHEAR
- ATTITUDE OF CLEAVAGE
- UNCONFORMITY

LUCKY JACK AREA
SURFACE PLAN OF DRILL ROAD VEIN
 SAMPLE LOCATION & ASSAY RESULTS
 LUCKY STRIKE OPTION



None of the 40 samples collected from the south (above the adits) and north portion of the vein returned any significant values.

The upper Lucky Jack adit was opened for inspection. The crosscut and drift were advanced only a short distance where they both stopped in a badly broken graphitic fault zone containing irregular and discontinuous quartz veinlets and pods.

The lower adit, located some 200 feet below and reported to have intersected 14 feet of good grade ore could not be reopened due to heavy overburden and the collapsed condition of the crosscut.

The old stamp mill used to process this ore was located a short distance down slope near an old cabin which is still standing.

- 11.9.3 Another quartz vein exposed in a drill road a short distance up slope from the Lucky Jack vein was trenched further with the backhoe. Figure 6 shows the detailed results of mapping and sampling on this vein. None of the 24 samples taken returned any significant values. No further work is recommended.

11.9.4 Underground Sampling of Old Mine Workings

- 11.9.5 A total of 29 samples were taken in the old underground workings of the Eva 7A (bottom) drift and in the No. 2 lower drift on the Oyster-Criterion veins.
- 11.9.6 Figure 7 shows the results of 7 samples collected from the Eva 7A drift. Sample No. 62124 assaying 3.04 g gold was the only significant value obtained. It was taken from a quartz blowout on section 6453N. The drift is caved at section 6200N, but the favourable structure appears to have been well covered. This drift extends underneath and beyond the downward vertical projection of the surface pit where the bulk of the high grade ore was extracted.
- 11.9.7 Figure 9 shows the results of 21 samples collected from the lower or No. 2 drift on the Oyster-Criterion structure. Four separate samples (numbers 26039, 26042, 26044 and 26049) collected from the main quartz vein at the back of the drift returned values of 1.77 grams, 2.16, 1.72, and 2.76 g gold. These values are erratically distributed over a distance of 170 m. A quartz-sulphide muck sample taken from the floor of the drift assayed 10.10 g gold. This sample probably came from one of the stopes above the level.

The drift could not be entered beyond section 5700N due to unstable ground conditions. The presence of several chutes in this area of the drift would seem to indicate the possibility of ore at least above the level. A sample of quartz taken from one of the chutes located across from the internal shaft and hoist near section 5700N assayed 1.02 g gold. It is not known how deep the internal shaft or winze is, or if there were any lateral developments from it. The shaft, which is now filled with water, was sunk at about 75 degrees E similar to the dip of the vein on the level.

The northerly section of the underground workings were driven underneath the Eva workings. The two mines were connected at the end by a chute and manway system. It appears this work was done during 1936 when all mining operations were discontinued.

11.9.8 Location of Claim Boundaries

- 11.9.9 The corner post for the Tuscon (Lucky Strike) and Treadwell (K-2) claims was located and tied in to the surveyed grid. Copies for most of the reverted crown grants were obtained from the Revelstoke claims office and plotted as shown on the attached maps.

The reverted crown grants, namely the Balfour and Blue Jay Fractions lapsed and were restaked as the Balfour and Blue Jay Fractions. The new recording numbers are 2624 and 2625. These were accepted by the Revelstoke recording office but rejected by Victoria. There is nothing in the new regulations which applies to reverted crown grants which come open. Until Victoria decides what to do, these claims remain in limbo. Our legal department is attempting to have these new claims reinstated.

12.0 Recommendations and Conclusions

- 12.1 It is concluded that the Lucky Strike Claim group is an attractive exploration and development bet in a favourable geological environment to discover quartz veins containing small-to-moderate reserves of gold.
- 12.2 The property warrants diamond drilling at depth on both the Eva and Oyster Criterion vein structures.
- 12.3 On the Eva structure, a series of holes (5) are proposed to explore both the "A" and "B" veins at depth. Three holes are proposed to explore the structure beyond the end of levels 2 and 5. The deepest of the three, above the 7A level, is to be positioned to explore the up-plunge extension of a wide quartz blowout located by the 7A drift.

Two holes are proposed to explore both veins below the 7A level at about the same elevation as LKY-5 drilled in 1987. These holes will also establish whether hole LKY-5 was drilled deep enough to cover the down dip projection of both the A and B veins. Hole LKY-5 was stopped due to the depth limitation of the drill. However the casing was left in the hole so that it can be re-entered and deepened provided the hole is still reasonably clean (see Longitudinal Projection - Eva Mine - Figure 8). Total footage proposed is 2,000 feet.

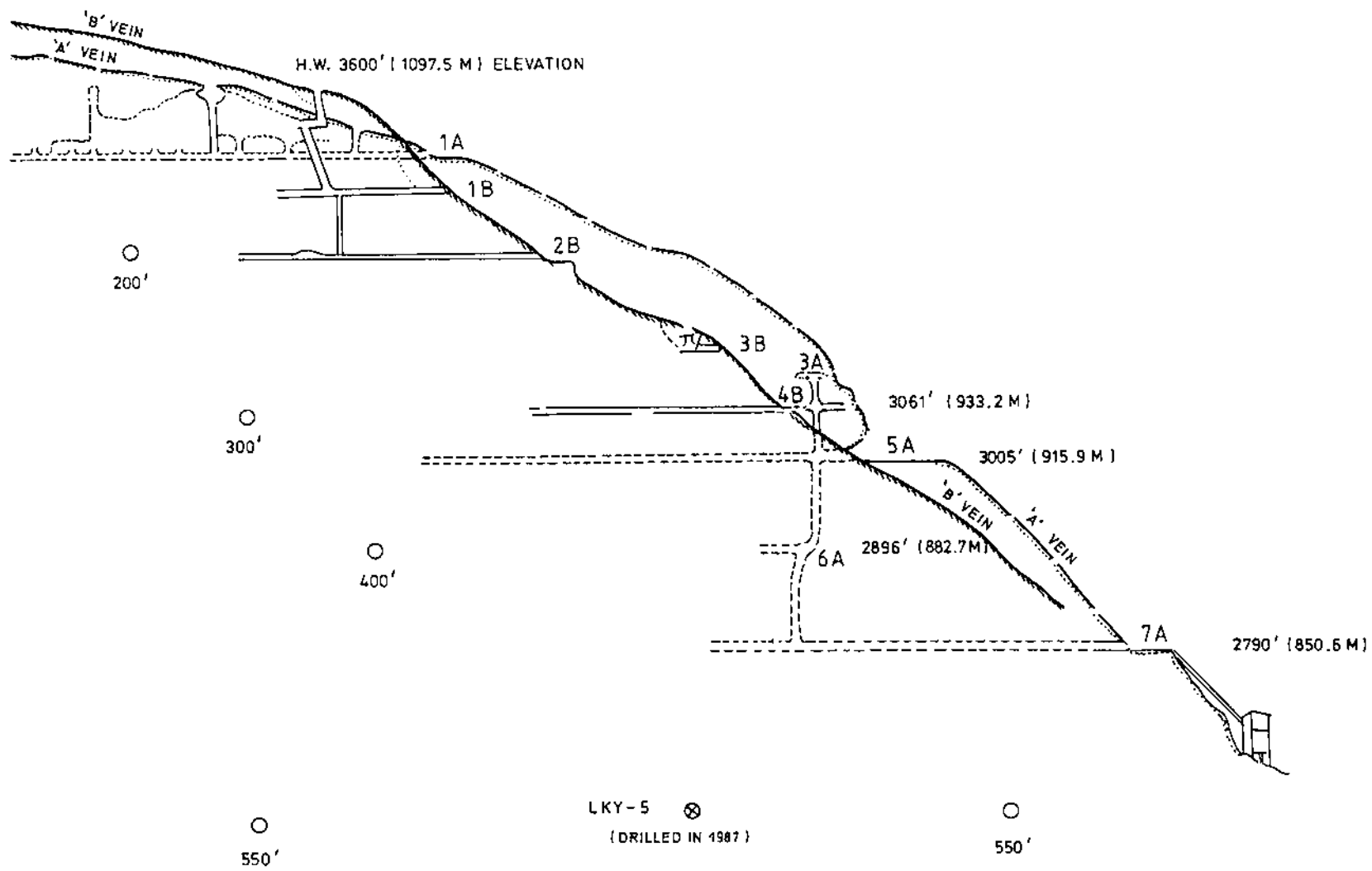
- 12.4 On the Oyster-Criterion structures, a series of holes (8) are recommended to explore the vein structures below the main or number 2 drift.

Five holes are proposed to investigate the main quartz vein near the portal over a distance of 200 m. The most easterly hole will check the lateral as well as the vertical continuity of the vein. At the end of the drift, the vein is 1.0 meters wide. Ten meters from the face, a 1 metre chip sample taken from the back of the drift assayed 1.77 g gold (see Figure 9). Maximum footage for five holes is 4,900 feet drilling from W to E (down dip).

If it is possible to build a drill road on the east or hanging wall side of the vein, the above footage may be reduced to 2,500 feet.

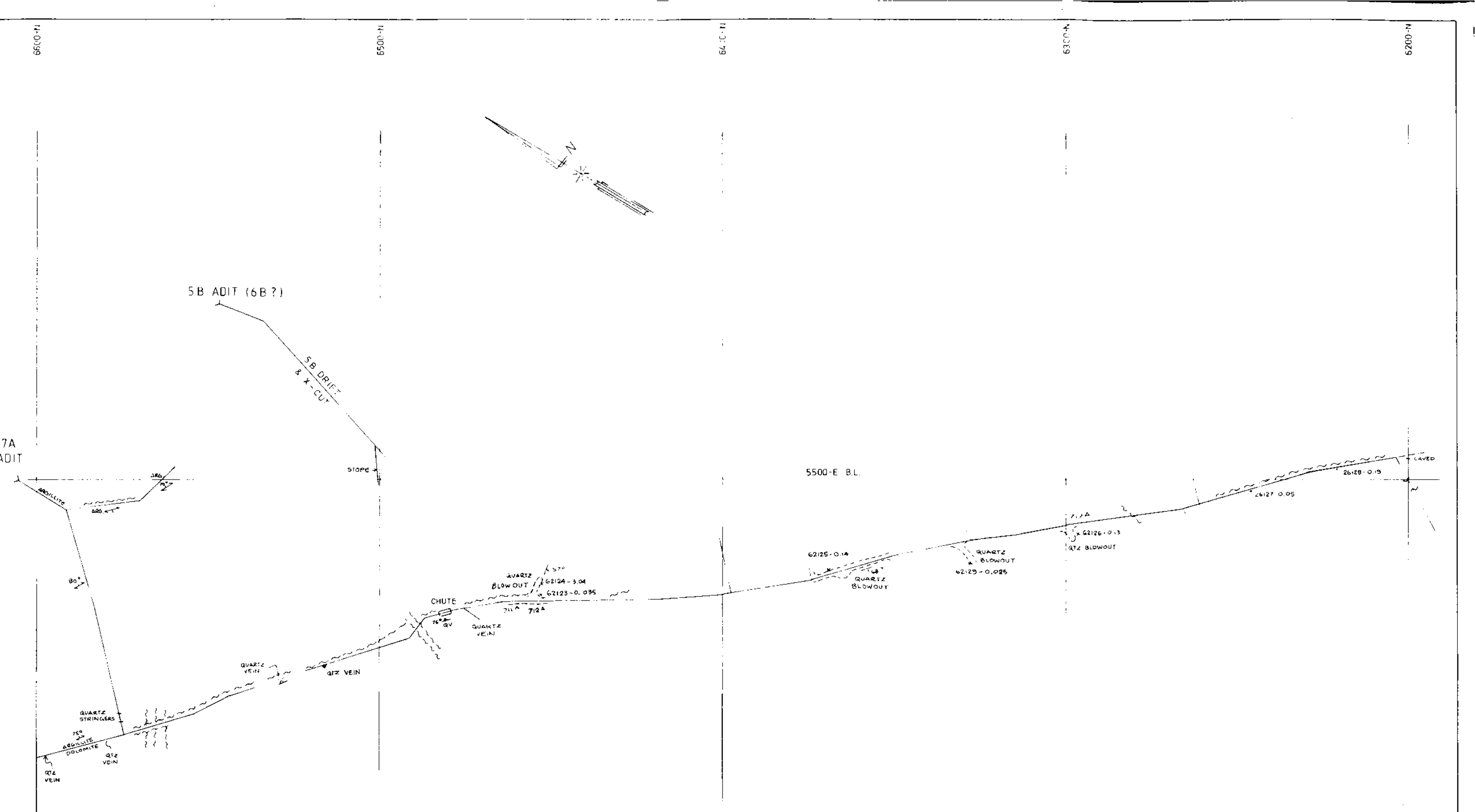
Two holes are proposed to explore the vein structure below the level beyond the accessible portion of the drift. Approximately 1,000 feet would be required. Maximum footage for all drilling on the Oyster vein is 5,900 feet; minimum footage for all drilling on the Oyster vein is 3,500 feet.

- 12.5 Two short holes are proposed to explore two horizontal loop electromagnetic anomalies, one of which may be on extension of the Lucky Jack vein which contains gold on surface and underground. Total footage is 500 feet.
- 12.6 The estimated cost for this drilling at a all inclusive price of \$30 per foot is \$252,000 maximum or \$180,000 minimum.



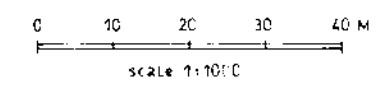
○ PROPOSED DRILL HOLE

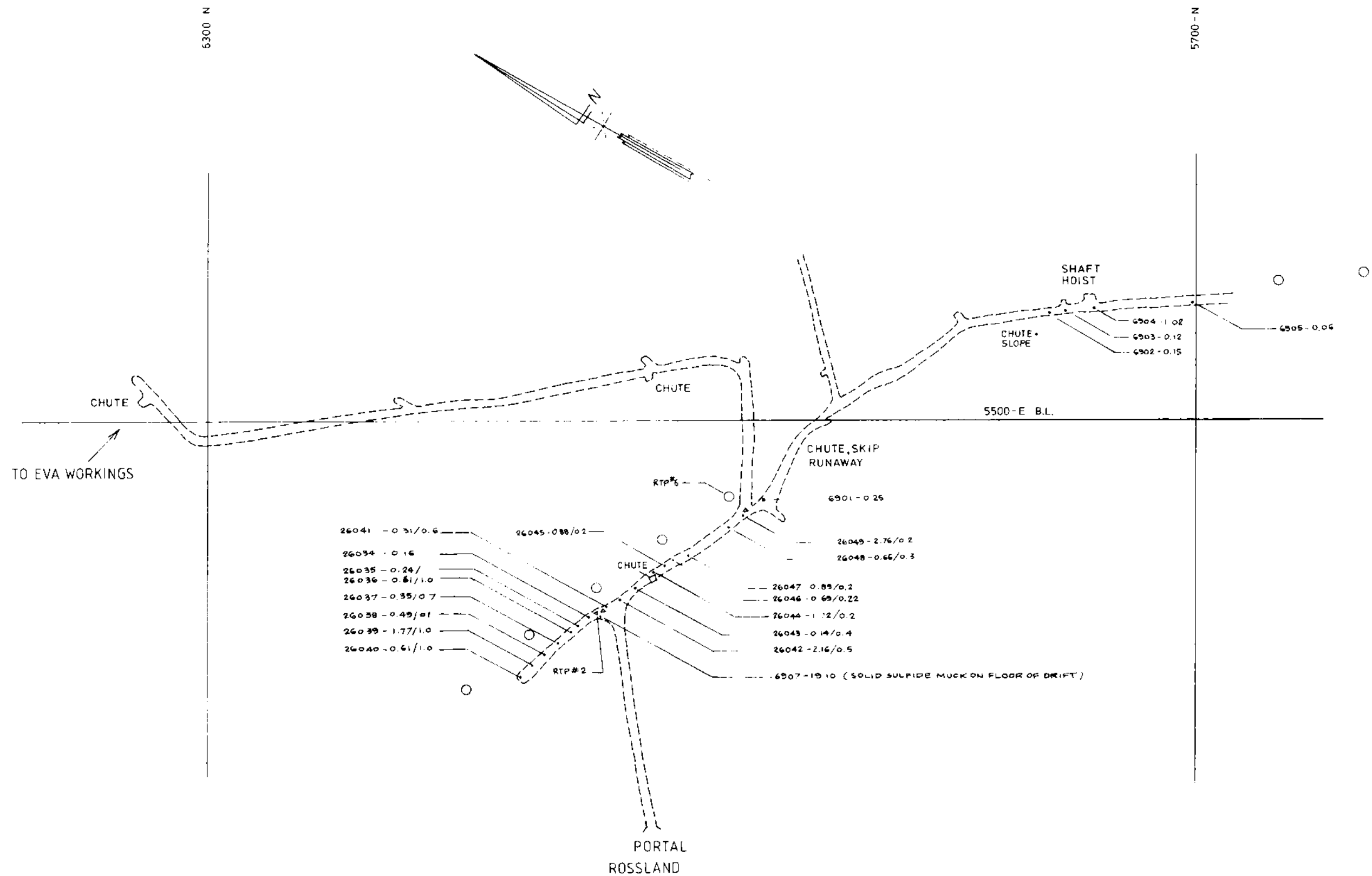
LONGITUDINAL PROJECTION OF EVA MINE
 LUCKY STRIKE OPTION
 (LOOKING WEST)



PLAN OF 7A AND 5B OR 6B DRIFTS
 EVA MINE
 LUCKY STRIKE OPTION

EXPLANATION
 SAMPLE NO - ASSAY g/t
 62129 - 0.025

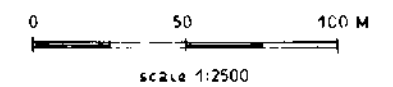




PLAN OF ROSSLAND NO 2 DRIFT
 SAMPLE LOCATION & ASSAY RESULTS
 LUCKY STRIKE OPTION

○ PROPOSED DRILL HOLES

SAMPLE NO - ASSAY 9/t (M)
 26047 0.89/0.2



STATEMENT OF EXPENDITURES

CAMBORNE GROUP

Rossland/Criterion:

Prospecting	\$	2,953.75
Geochem	\$	69.70
Chaining & horizontal loop EM	\$	666.00
Transportation & communication	\$	960.00
Report writing & drafting	\$	665.96
Office overhead	\$	531.54
TOTAL	\$	5,846.95

Oyster:

Prospecting	\$	3,249.00
Chaining & horizontal loop EM	\$	604.00
Transportation & communication	\$	1,056.00
Report writing & drafting	\$	732.56
Office overhead	\$	564.16
TOTAL	\$	6,205.72

Highland Mary:

Prospecting	\$	2,658.00
Geochem	\$	108.80
Chaining & horizontal loop EM	\$	250.00
Transportation & communication	\$	864.00
Report writing & drafting	\$	599.37
Office overhead	\$	448.01
TOTAL	\$	4,928.18

Eva/Wedge Fr/Iron Dollar:

Prospecting	\$	2,067.00
Geochem	\$	20.40
Chaining & horizontal loop EM	\$	250.00
Diamond drilling (DDH's #5)	\$	26,013.00
Transportation & communication	\$	672.00
Report writing & drafting	\$	466.00
Office overhead	\$	2,948.84
TOTAL	\$	32,437.24

Stockholm:

Prospecting	\$	2,363.00
Geochem	\$	149.75
Transportation & communication	\$	768.00
Report writing & drafting	\$	532.77
Office overhead	\$	2,819.35
TOTAL	\$	4,194.87

R.P.O.P. 2,363.00
 PROV 149.75
 768.00
 532.77
 GEORGE 2819.35
 4,194.87
George

STATEMENT OF EXPENDITURES

CAMBORNE GROUP (CONT'D)

Cholla:

Prospecting	\$	886.00
Transportation & communication	\$	288.00
Report writing & drafting	\$	199.79
Office overhead	\$	137.37
TOTAL	\$	1,511.16

SleveNaMon:

Prospecting	\$	2,363.00
Geochem	\$	37.95
Chaining & horizontal loop	\$	729.00
Diamond drilling (DDH #4).....	\$	8,671.11
Transportation & communication	\$	768.00
Report writing & drafting	\$	532.77
Office overhead	\$	1,310.18
TOTAL	\$	14,412.01

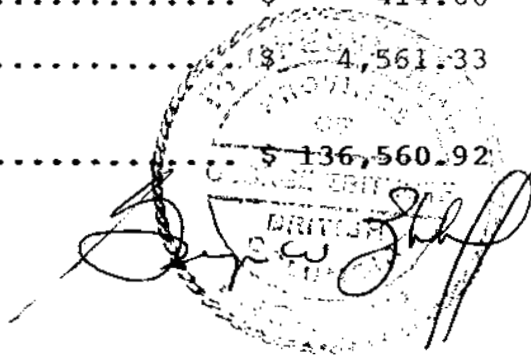
Mascotte Fr/Goldfly:

Prospecting	\$	2,658.00
Geochem	\$	13.60
Chaining & horizontal loop.....	\$	624.00
Diamond drilling (DDH's #1,2,3).....	\$	52,026.00
Transportation & communication	\$	864.00
Report writing & drafting	\$	599.37
Office overhead	\$	5,678.49
TOTAL	\$	62,463.46

Joker/Last Chance:

Prospecting	\$	2,658.00
Geochem	\$	25.30
Transportation & communication	\$	864.00
Report writing & drafting	\$	599.37
Office overhead	\$	414.66
TOTAL	\$	4,561.33

GRAND TOTAL \$ 136,560.92



STATEMENT OF EXPENDITURES

LUCKY JACK GROUP

Red Horse/J.J. Davis Fr:

Prospecting	\$ 1,181.50
Geochem	\$ 989.40
Transportation & communication	\$ 384.00
Report writing & drafting	\$ 266.39
Office overhead	\$ 282.13
TOTAL	\$ 3,103.42

Lucky Jack Fr:

Prospecting	\$ 886.00
Geochem	\$ 8.50
Chaining & Horizontal Loop EM	\$ 312.00
Transportation & communication	\$ 288.00
Report writing & drafting	\$ 199.79
Office overhead	\$ 169.43
TOTAL	\$ 1,863.72

Meridian Fr:

Prospecting	\$ 1,181.50
Geochem	\$ 8.50
Chaining & Horizontal Loop EM	\$ 541.00
Transportation & communication	\$ 384.00
Report writing & drafting	\$ 266.38
Office overhead	\$ 238.14
TOTAL	\$ 2,619.52

Alamo:

Prospecting	\$ 1,478.60
Transportation & communication	\$ 480.00
Report writing & drafting	\$ 332.98
Office overhead	\$ 229.15
TOTAL	\$ 2,520.73

Silver Wedge:

Prospecting	\$ 590.75
Transportation & communication	\$ 192.00
Report writing & drafting	\$ 133.19
Office overhead	\$ 91.59
TOTAL	\$ 1,007.53

GRAND TOTAL

\$ 11,114.92

George J. Zopf

STATEMENT OF EXPENDITURES

TUCSON GROUP

Tucson:

Prospecting	\$	886.12
Transportation & communication	\$	288.00
Report writing & drafting	\$	199.79
Office overhead	\$	137.39
TOTAL	\$	1,511.30

LV Fraction:

Prospecting	\$	590.00
Transportation & communication	\$	192.00
Report writing & drafting	\$	133.00
Office overhead	\$	91.50
TOTAL	\$	1,006.50

Imperial:

Prospecting	\$	295.00
Transportation & communication	\$	96.00
Geochem	\$	102.00
Report writing & drafting	\$	66.59
Office overhead.....	\$	55.96
TOTAL	\$	615.55

GRAND TOTAL

	\$	3,133.35
--	----	----------



A handwritten signature in black ink is written over a circular stamp. The signature is cursive and appears to read 'D. W. [unclear]'. The stamp is a circular seal with a dotted border and contains some illegible text in the center.

STATEMENT OF QUALIFICATIONS
GEORGE W. ZBITNOFF
5160 CLIFF PLACE
DELTA, B.C.

Name: Zbitnoff, George William

Birth Date: August 15, 1938

Birthplace: Saskatoon, Saskatchewan

Graduated with Grade 12 matriculation from
Blaine Lake High School in 1955.

Graduated from University of Saskatchewan with a
B.A. (Geology and chemistry majors) in 1963.

Professional

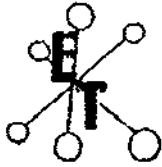
- Associations:
- Member of the Association of Professional Engineers of the Province of Manitoba.
 - Member of the Association of Professional Engineers of the Province of British Columbia since 1973.
 - Member of the Canadian Institute of Mining and Metallurgy.

- Experience:
- Pre-graduation experience in geology with the Department of Mineral Resources of Saskatchewan.
 - May 1962 - Two and one half years, field geologist with Hudson Bay Exploration and Development, Flin Flon area.
 - January 1965 - Six years, field and resident geologist with Noranda Exploration Ltd., Flin Flon area.
 - February 1971 - Twelve and one half years, Assistant Manager, Granges Exploration Aktiebolag in Vancouver, B.C.
 - November 1983 to present - Vice President Exploration, Granges Exploration Ltd. in Vancouver, B.C.
 - Active geological experience in all provinces of Canada and parts of the United States and Mexico.
 - Participated in the discovery of Trout Lake Mine.

APPENDIX I

(in pocket)

APPENDIX II



ECO-TECH LABORATORIES LTD.

ASSAYING - ENVIRONMENTAL TESTING
 10041 East Trans Canada Hwy., Kamloops, B.C. V2C 2J3 (604) 873-6700 Fax 673-4557

NOVEMBER 15, 1988

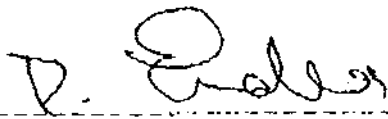
CERTIFICATE OF ANALYSIS ETK #88-651

Granges Exploration Ltd.
 2300, 885 W. Georgia St.
 VANCOUVER, B.C.
 V6C 3E6

Attention: George Zbitnoff

SAMPLE IDENTIFICATION: 6 SOIL samples received November 7, 1988
 PROJECT NO: 131

ETK#	Description	Au (ppb)
651 - 1	5600 N 5175E	145 ✓
651 - 2	5650 N 5025E	265 ✓
651 - 3	5050C	155 ✓
651 - 4	5150E	80
651 - 5	5225C	145 ✓
651 - 6	5750 N 5075E	340 ✓

per 
 ECO-TECH LABORATORIES LTD.
 Frank J. Pezzotti, A.Sc.T.
 B.C. Certified Assayer

c.c. Granges Exploration
 VIA FAX
 ATTENTION: PAT DEVEAUX

5C08/GR-63

ECO-TECH LABORATORIES LTD. - ETK 88-554

10041 E. TRANS-CANADA HIGHWAY
 KAMLOOPS, B.C. V2C 2J3
 OCTOBER 11, 1988

Granges Exploration Ltd.
 2300, 885 W. Georgia St.
 VANCOUVER, B.C.
 V6C 3E6

Attention: George Zbitnoff

SAMPLE IDENTIFICATION: 4 SOIL samples received October 5, 1988
 ----- PROJECT NO: 131

ETK#	Description	Au (ppb)	Ag (ppm)	Cu (ppm)	Pb (ppm)	Zn (ppm)	As (ppm)
554 - 1	6400 N 4825E (4715E) ✓	305	.4	34	28	98	45
554 - 2	4875E ✓	165	<.1	37	23	110	45
554 - 3	6450 N 4950E ✓	25	<.1	28	18	105	21
554 - 4	4975E ✓	140	.5	28	31	194	31

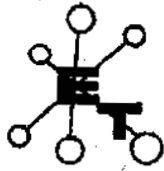
NOTE: < = less than

per D Edwards

 ECO-TECH LABORATORIES LTD.
 Frank J. Pezzotti, A.Sc.T.
 B.C. Certified Assayer

c.c. Granges Exploration
 VIA FAX
 ATTENTION: PAT DEVEAUX

SC88/GR-G3



ECO-TECH LABORATORIES LTD.

ASSAYING - ENVIRONMENTAL TESTING

10041 East Trans Canada Hwy., Kamloops, B.C. V2C 2J3 (804) 673-6700 Fax 673-4557

September 28, 1988

CERTIFICATE OF ANALYSIS ETK #88-482

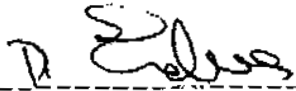
Granges Exploration Ltd.
2300, 885 W. Georgia St.
VANCOUVER, B.C.
V6C 3E6

Attention: George Zbitnoff

SAMPLE IDENTIFICATION: 14 SOIL samples received September 15, 1988
PROJECT NO: 131 G.S.

ETK#	Description	AU (ppb)	Ag (g/t)	Cu (oz/t)	Pb (ppm)	Zn (ppm)	As (ppm)	
482 - 1	7000 N 5450E ✓	115	.5	31	160	290	34	
482 - 2	7050 N 5375E ✓	120	.7	39	62	185	26	
482 - 3	7100 N 5400E ✓	225	1.1	36	49	165	31	
482 - 4	5425E ✓	80	1	22	54	151	27	
482 - 5	5450E ✓	175	.6	28	39	132	27	
482 - 6	5500E ✓	205	1.1	42	40	121	69	
482 - 7	5525E ✓	110	1.2	28	32	140	28	
482 - 8	7200 N 5550E ✓	15	1	39	36	180	18	
482 - 9	7250 N 5400E ✓	55	.4	18	68	48	21	
482 - 10	5425E ✓	275	.9	45	81	141	54	
482 - 11	5450E ✓	>1000	1.39	.041	.8	73	121	75
482 - 12	6950 N 5475E ✓	320	.5	21	32	120	38	
482 - 13	6750 N 5875E ✓	15	.4	30	27	117	24	
482 - 14	5650 N 5950E ✓	15	.8	28	29	60	17	

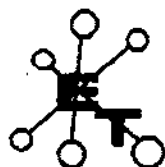
NOTE: > = MORE THAN

per

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 B.C. Certified Assayer

c.c. Granges Exploration
 VIA FAX
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SC88/GR-G3

TOTAL Sp. (120) Samples



ECO-TECH LABORATORIES LTD.

ASSAYING - ENVIRONMENTAL TESTING
 10041 East Trans Canada Hwy., Kamloops, B.C. V2C 2J3 (804) 673-6700 Fax 673-4557
 September 30, 1988

CERTIFICATE OF ANALYSIS ETK #89-514

Granges Exploration Ltd.
 2300, 885 W. Georgia St.
 VANCOUVER, B.C.
 V6C 3E6

Attention: George Zbitnoff

SAMPLE IDENTIFICATION: 30 SOIL samples received September 23, 1988
 PROJECT NO: 131

ETK#	Description	<i>Flow</i>	Au (ppb)	Ag (ppm)	Cu (ppm)	Pb (ppm)	Zn (ppm)	(%)	As (ppm)
514 - 1	6050 N	5125E ✓	30	<.1	12	28	117		17
514 - 2	6200 N	5175E ✓	50	<.1	14	24	125		17
514 - 3	6250 N	4925E ✓	40	<.1	6	20	88		14
514 - 4	6400 N	5325E ✓	5	.1	30	26	121		12
514 - 5		5350E ✓	15	.1	11	34	70		12
514 - 6	6550 N	5625E ✓	10	.7	29	24	56		18
514 - 7		5725E ✓	5	.3	33	22	113		13
514 - 8	5900 N	4825E ✓	60	.3	22	48	126		22
514 - 9		4850E ✓	25	1.1	13	82	176		21
514 - 10		4875E ✓	145	5	25	262	386		31
514 - 11		4900E ✓	60	.6	28	93	198		30
514 - 12		4950E ✓	50	1.4	11	32	138		17
514 - 13		5050E ✓	110	1.3	17	32	162		20
514 - 14		5075E ✓	45	.8	26	66	154		34
514 - 15		5125E ✓	65	.2	14	28	99		24
514 - 16		5150W ✓	145	.2	18	37	90		22
514 - 17		5175E ✓	230	3.4	43	458	>1000	.16	43
514 - 18		5200E ✓	205	2.3	4	35	56		21
514 - 19		5225E ✓	185	1.2	31	70	175		34
514 - 20		5250E ✓	435	<.1	32	28	109		25
514 - 21	5950 N ✓	4875E ✓	10	.5	29	36	150		30
514 - 22		4900E ✓	10	.7	24	104	284		28
514 - 23		4925E ✓	15	.3	25	44	110		20
514 - 24		5025E ✓	145	.1	36	38	122		25
514 - 25		5050E ✓	225	1.1	31	33	97		18
514 - 26		5125E ✓	80	1.3	29	36	74		27
514 - 27		5150E ✓	60	1.3	27	105	385		27
514 - 28		5175E ✓	75	.2	21	9	37		25
514 - 29		5225E ✓	25	2.4	18	84	290		18
514 - 30		5250E ✓	20	.6	7	23	54		16

NOTE: < = less than

P. Pezzotti
 ECO-TECH LABORATORIES LTD.
 Frank J. Pezzotti, A.Sc.T.
 B.C. Certified Assayer

c.c. Granges Exploration
 VIA FAX
 ATTENTION: PAT DEVEAUX

SC88/GR-63



ECO-TECH LABORATORIES LTD.

ASSAYING - ENVIRONMENTAL TESTING

10041 East Trans Canada Hwy., Kamloops, B.C. V2C 2J3 (604) 573-6700 Fax 573-4557

September 27, 1988

CERTIFICATE OF ANALYSIS ETK #88-483

Granges Exploration Ltd.
2300, 885 W. Georgia St.
VANCOUVER, B.C.
V6C 3E6

Attention: George Zbitnoff

SAMPLE IDENTIFICATION: 13 SOIL samples received September 15, 1988
PROJECT NO: 131

Red Horse Field

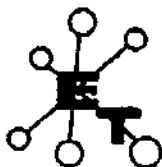
ETK#	Description	Au (ppb)	Ag (ppm)	Cu (ppm)	Pb (ppm)	Zn (ppm)	As (ppm)
483 - 1	<u>4850 N</u> 5025E ✓	20	.2	18	23	140	11
483 - 2	5050E	(50)	.1	43	<u>236</u>	125	22
483 - 3	<u>5075E</u>	(65)	.3	31	37	178	20
483 - 4	5100E	15	.1	30	23	105	13
483 - 5	<u>5125E</u>	(35)	.2	43	37	143	24
483 - 6	5150E	20	.2	41	30	130	20
483 - 7	5175E ✓	20	.2	38	26	113	20
483 - 8	<u>4900 N</u> 5025E ✓	30	<.1	27	25	103	15
483 - 9	5050E	5	.3	23	25	145	12
483 - 10	5075E	5	.1	19	18	81	15
483 - 11	<u>5100E</u>	(40)	.1	22	26	88	11
483 - 12	5125E	15	.3	25	40	165	11
483 - 13	5150E ✓	10	.2	21	20	118	12

NOTE: < = less than

D. Pezzotti
ECO-TECH LABORATORIES LTD.
Frank J. Pezzotti, A.Sc.T.
B.C. Certified Assayer

c.c. Granges Exploration
VIA FAX
ATTENTION: PAT DEVEAUX

SC88/GR-63



ECO-TECH LABORATORIES LTD.

ASSAYING - ENVIRONMENTAL TESTING
10041 East Trans Canada Hwy., Kamloops, B.C. V2C 2J3 (804) 573-5700 Fax 573-4557

September 27, 1988

CERTIFICATE OF ANALYSIS ETK #88-481

Granges Exploration Ltd.
2300, 885 W. Georgia St.
VANCOUVER, B.C.
V6C 3E6

Attention: George Zbitnoff

SAMPLE IDENTIFICATION: 59 SOIL samples received September 15, 1988
PROJECT NO: 131

Red Horse herd

ETK#	Description	Au (ppb)	Ag (ppm)	Cu (ppm)	Pb (ppm)	Zn (ppm)	As (ppm)
481 - 1	4500 N 5125E ✓	10	.2	57	25	117	17
481 - 2	5150E	5	.1	51	23	115	15
481 - 3	5175E	<5	.2	37	32	133	14
481 - 4	5200E	<5	.3	33	29	162	16
481 - 5	5225E	<5	.5	29	48	114	12
481 - 6	5250E ✓	10	.2	35	33	133	15
481 - 7	⁵ 4500 N 5050E ✓	5	.2	53	24	120	27
481 - 8	5075E	5	.1	59	33	140	29
481 - 9	5100E	(30)	.1	42	22	126	16
481 - 10	5125E	10	.1	34	23	115	15
481 - 11	5150E	5	.2	23	19	116	12
481 - 12	5175E	15	.1	19	22	124	11
481 - 13	5200E	5	.2	25	25	137	16
481 - 14	5225E ✓	10	<.1	45	25	100	15
481 - 15	<u>4600 N</u> 5025E ✓	10	<.1	38	18	97	19
481 - 16	5050W	10	.2	36	32	127	22
481 - 17	5075E	10	.3	60	51	129	20
481 - 18	5100E	15	.2	33	27	130	19
481 - 19	5125E	10	.2	32	30	138	19
481 - 20	<u>5150E</u>	(60)	.2	33	23	141	15
481 - 21	5175E	15	.2	31	26	155	16
481 - 22	5200E	5	.2	29	28	150	12
481 - 23	5225E	5	.2	31	28	131	15
481 - 24	<u>5250E</u> ✓	10	.3	37	27	144	16
481 - 25	<u>4650 N</u> 5025E ✓	10	.3	19	26	100	18
481 - 26	5050E	5	.4	18	24	147	15
481 - 27	5075E	<5	.2	46	26	124	17
481 - 28	5100E	<5	.1	49	21	127	22
481 - 29	5125E	15	.2	55	32	137	25
481 - 30	5150E	5	.4	30	14	139	13

Platte



ECO-TECH LABORATORIES LTD.

ASSAYING - ENVIRONMENTAL TESTING

10041 East Trans Canada Hwy., Kamloops, B.C. V2C 2J3 (604) 573-5700 Fax 573-4557

Granges Exploration Ltd.

SEPTEMBER 27, 1988

Red Horse Gold

ETK#	Description	Au (ppt)	Ag (ppm)	Cu (ppm)	Pb (ppm)	Zn (ppm)	As (ppm)
481 - 31	5175E <i>Plotted</i>	<5	.2	22	15	123	12
481 - 32	5200E	<5	.1	38	32	193	15
481 - 33	5225E	<5	.2	31	39	206	12
481 - 34	5250E ✓	<5	.1	50	43	140	15
481 - 35	<u>4700 N</u> 5025E ✓	5	.1	31	27	120	16
481 - 36	5050E	<5	.2	33	18	106	16
481 - 37	5075E	<u>35</u>	.4	23	20	135	14
481 - 38	5100E	5	.1	44	23	114	19
481 - 39	5125E	5	.2	19	14	89	4
481 - 40	5150E	10	.2	19	12	96	4
481 - 41	5175E	5	.3	31	16	97	5
481 - 42	5200E	5	.1	32	17	124	5
481 - 43	5225E	5	.2	27	17	97	4
481 - 44	5250E ✓	5	.2	35	42	111	7
481 - 45	<u>4750 N</u> 5025E ✓	<5	.1	31	19	91	7
481 - 46	5050E	5	.7	21	28	213	8
481 - 47	5075E	5	.3	33	25	108	8
481 - 48	5100E	<5	.3	38	31	144	6
481 - 49	5125E	5	.4	20	29	153	11
481 - 50	5150E	5	.1	19	18	140	13
481 - 51	5175E	5	.2	39	21	126	16
481 - 52	5200E ✓	5	.1	38	27	133	23
481 - 53	<u>4800 N</u> 5025E ✓	15	.3	31	30	116	20
481 - 54	5050E	5	.1	31	26	101	19
481 - 55	5075E	<5	.1	43	37	117	19
481 - 56	5100E	5	.2	30	25	110	18
481 - 57	5125E	<u>20</u>	.5	28	28	100	17
481 - 58	5150E	5	.4	23	22	76	17
481 - 59	5175E ✓	<5	.2	14	24	68	13

NOTE: < = less than

Plotted
J. Pezzotti
 ECO-TECH LABORATORIES LTD.
 Frank J. Pezzotti, A.Sc.T.
 B.C. Certified Assayer

c.c. Granges Exploration
 VIA FAX
 ATTENTION: PAT DEVEAUX

SC88/GR-63

ECO-TECH LABORATORIES LTD.

ASSAYING - ENVIRONMENTAL TESTING
 10041 East Trans Canada Hwy., Kamloops, B.C. V2C 2J3 (604) 571-5700 Fax 573-4567

September 13, 1988 ✓

CERTIFICATE OF ANALYSIS ETK 488-453

Granges Exploration Ltd.
 2300, 885 W. Georgia St.
 VANCOUVER, B.C.
 V6C 3E6

Attention: George Zaitchoff

SAMPLE IDENTIFICATION: 4 SOIL samples received September 6, 1988
 PROJECT NO: 131

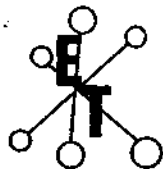
ETKa	Description	Au (ppb)	Ag (ppm)	Pb (ppm)	Zn (ppm)	As (ppm)
463	1 4950 N 5025 E	65	.2	25	83	70
463	2 5000 N 5300 E	<u>655</u>	.2	71	128	26
463	3 5080 N 5075 E	30	.2	46	111	22
463	4 5500 N 5400 E	<u>315</u>	.9	53	74	32

per J. Zaitchoff

 ECO-TECH LABORATORIES LTD.
 Frank J. Pezzotti, A.Sc.T.
 B.C. Certified Assayer

c.c. Granges Exploration
 VIA FAX
 ATTENTION: PAT BELVEAUX

SC98/GR-2



ECO-TECH LABORATORIES LTD.

ASSAYING - ENVIRONMENTAL TESTING
10041 East Trans Canada Hwy., Kamloops, B.C. V2C 2J3 (604) 573-5700 Fax 573-4557

NOVEMBER 10, 1988

CERTIFICATE OF ANALYSIS ETK #88-650

Granges Exploration Ltd.
2300, 885 W. Georgia St.
VANCOUVER, B.C.
V6C 3E6

Attention: George Zbitnoff

SAMPLE IDENTIFICATION: 1 ROCK sample received November 7, 1988
PROJECT NO: 131

ETK#	Description	Au (ppb)
650	1 6955 (SOLID) 07/7/88	75

ECO-TECH LABORATORIES LTD.
Frank J. Pezzotti, A.Sc.T.
B.C. Certified Assayer

SC88/GR-54

ECO-TECH LABORATORIES LTD. - ETK 88-552

10041 E. TRANS-CANADA HIGHWAY
KAMLOOPS, B.C. V2C 2J3
OCTOBER 11, 1988

Granges Exploration Ltd.
2300, 885 W. Georgia St.
VANCOUVER, B.C.
V6C 3E6

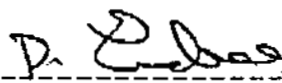
Attention: George Zbitnoff

SAMPLE IDENTIFICATION: 9 ROCK samples received October 5, 1988
PROJECT NO: 131

LUCKY

ETK#	Description	(ppb)	Au (g/t) (oz/t)		Ag (ppm)
552 - 1	6908	5			.4
552 - 2	6982	280			<.1
552 - 3	6983	<5			<.1
552 - 4	6984 - 6630N, 5254E	230			.5
552 - 5	6985	110			<.1
552 - 6	6986	>1000	1.73	.050	<.1
552 - 7	6987	100			<.1
552 - 8	6988	450			.8
552 - 9	6989	>1000	1.68	.049	.4

NOTE: < = less than
> = more than

per 
ECO-TECH LABORATORIES LTD.
Frank J. Pezzotti, A.Sc.T.
B.C. Certified Assayer

c.c. Granges Exploration
VIA FAX
ATTENTION: PAT DEVEAUX

SC88/GR-G3

ECO-TECH LABORATORIES LTD. - ETK 535

10041 E. TRANS-CANADA HIGHWAY
KAMLOOPS, B.C. V2C 2J3
OCTOBER 7, 1988

Granges Exploration Ltd.
2300, 885 W. Georgia St.
VANCOUVER, B.C.
V6C 3E6

Attention: George Zbitnoff

SAMPLE IDENTIFICATION: 25 ROCK samples received September 29, 1988
PROJECT NO: 131

ROSSLAND # 2 ADIT

Entered in Book
OCT. 7

ETK#	Description	(ppb)	Au (g/t)	(oz/t)	Ag (ppm)
535 - 1	26034	160			.4
535 - 2	26035	240			.4
535 - 3	26036	615			.2
535 - 4	26037	350			.8
535 - 5	26038	490			.1
535 - 6	26039	>1000	1.77	.052	.1
535 - 7	26040	610			.1
535 - 8	26041	310			<.1
535 - 9	26042	>1000	2.16	.063	.8
535 - 10	26043	140			<.1
535 - 11	26044	>1000	1.72	.050	1.0
535 - 12	26045	885			<.1
535 - 13	26046	690			4.7
535 - 14	26047	895			<.1
535 - 15	26048	665			<.1
535 - 16	26049	>1000	2.76	.080	1.2
535 - 17	6901	25			<.1
535 - 18	6902	150			<.1
535 - 19	6903	125			.1
535 - 20	6904	>1000	1.02	.030	.4
535 - 21	6905	60			<.1
535 - 22	6907 <i>53-41 loose on floor</i>	>1000	19.10*	.557	7.2
535 - 23	26031 <i>64504.4800E</i>	40			<.1
535 - 24	26032 <i>64504.4775F</i>	35			<.1
535 - 25	26033 <i>63954.4768E</i>	45			<.1

Lucy Rossland # 2 Adit

NOTE: < = less than 3 Surface
> = more than 22 U/G
* sample recut, screened and metallics assayed

Dr. Eder
ECO-TECH LABORATORIES LTD.
Frank J. Pezzotti, A.Sc.T.
B.C. Certified Assayer

c.c. Granges Exploration
VIA FAX
ATTENTION: PAT DEVEAUX
SC88/GR-G3

TOTAL *41* Rock Samples Surface Spt = 122

ECO-TECH LABORATORIES LTD. - ETK 526

10041 E. TRANS-CANADA HIGHWAY
KAMLOOPS, B.C. V2C 2J3
OCTOBER 3, 1988

Granges Exploration Ltd.
2300, 885 W. Georgia St.
VANCOUVER, B.C.
V6C 3E6

Attention: George Zbitnoff

SAMPLE IDENTIFICATION: 22 ROCK samples received September 27, 1988
PROJECT NO: 224/131

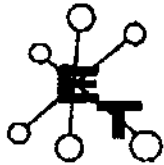
ETK#	PROJECT	Description	(ppb)	AU (g/t) (oz/t)	Ag (ppm)
526 - 1	224	62130	5		<.1
526 - 2		62131	<5		<.1
526 - 3		62132	15		<.1
526 - 4	<u>131</u>	6976	400		.8
526 - 5		6977	20		<.1
526 - 6		6978	245		8.5
526 - 7	70004, 5353E Adit	6979	>1000	3.78 .110	2.4
526 - 8		6980	105		.1
526 - 9	131	6981 Elie's Sluicing	350		<.1
526 - 10	<u>131</u>	26018 6997N, 5505E	<5		1.3
526 - 11		26019	<5		<.1
526 - 12	224	26020	<5		<.1
526 - 13		26021	<5		<.1
526 - 14		26022	<5		.9
526 - 15		26023	<5		<.1
526 - 16	224	26024	<5		<.1
526 - 17		26025	<5		<.1
526 - 18		26026	<5		<.1
526 - 19		26027	20		.1
526 - 20		26028	15		<.1
526 - 21		26029	10		.1
526 - 22		26030	30		.3

NOTE: < = less than

7 LKW
15 WFL

D. Pezzotti
ECO-TECH LABORATORIES LTD.
Frank J. Pezzotti, A.Sc.T.
B.C. Certified Assayer

c.c. Granges Exploration
VIA FAX
ATTENTION: PAT DEVEAUX



ECO-TECH LABORATORIES LTD.

ASSAYING - ENVIRONMENTAL TESTING

10041 East Trans Canada Hwy., Kamloops, B.C. V2C 2J3 (804) 573-5700 Fax 573-4557

September 30, 1988

CERTIFICATE OF ANALYSIS ETK #88-513

Granges Exploration Ltd.
2300, 885 W. Georgia St.
VANCOUVER, B.C.
V6C 3E6

Attention: George Zbitnoff

SAMPLE IDENTIFICATION: 27 ROCK samples received September 23, 1988
PROJECT NO: 131 & 224

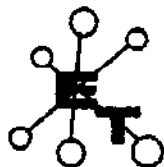
CTKH	Description	AU		Ag		Pb (%)
		(ppb)	(oz/t)	(g/t)	(ppm)	
513 - 1	26078	45	.045		<.1	
513 - 2	26005	190	.19		<.1	
513 - 3	26006	30	.03		<.1	
513 - 4	26007	130	.13		<.1	
513 - 5	26008	875	.87		.2	
513 - 6	26009	>1000	3.89	.113	.6	3010Z.
513 - 7	26010		8.94*	.261		1034.0g 36.9%
513 - 8	26011	>1000	7.06*	.206	3.2	
513 - 9	26012	20			.6	
513 - 10	26013	15			2.8	
513 - 11	26014	5			.2	
513 - 12	26015	30			19.6	
513 - 13	26016	15			.2	
513 - 14	26017	125	.125 g		.3	2.50Z
513 - 15	62110	790	.790 g		>30.0	85.6 g
513 - 16	62111	365	.365 g		8.7	
513 - 17	62112	705	.705 g		1.1	
513 - 18	62113	>1000	15.22*	.444	12.1	
513 - 19	62114	45			.9	
513 - 20	62115	10			.1	
513 - 21	62116	45			.2	
513 - 22	62117	45			.2	
513 - 23	62118	5			.1	
513 - 24	62119	125	.125		.1	
513 - 25	62120	85			.1	
513 - 26	62121	10			1.4	
513 - 27	62122	5			.2	

NOTE: < = less than
> = more than
* sample recut, screened and metallics assayed

93 L114
9007C

Frank J. Pezzolli
ECO-TECH LABORATORIES LTD.
Frank J. Pezzolli, A.Sc.T.
B.C. Certified Assayer

c.c. Granges Exploration
VIA FAX
ATTENTION: PAT DEVEAUX



ECO-TECH LABORATORIES LTD.

ASSAYING - ENVIRONMENTAL TESTING

10041 East Trans Canada Hwy., Kamloops, B.C. V2C 2J3 (804) 573-5700 Fax 573-4557

September 30, 1988

CERTIFICATE OF ANALYSIS ETK #88-511

Granges Exploration Ltd.
2300, 885 W. Georgia St.
VANCOUVER, B.C.
V6C 3E6

Attention: George Zbitnoff

SAMPLE IDENTIFICATION: 7 ROCK ^{u/g} samples received September 23, 1988
PROJECT NO: 131

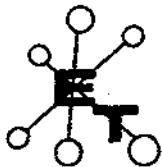
ETK#	Description	(ppb)	AU (g/L)	(oz/t)	Ag (ppm)
511 - 1	62123	35			.1
511 - 2	9/3 Blowout 62124	} EVA u/g 7A Drift	<u>>1000</u>	3.04	.089
511 - 3	9/3 Blowout 62125				
511 - 4	9/3 Blowout 62126				
511 - 5	62127				
511 - 6	62128				
511 - 7	9/3 Blowout 62129				
		130			.2
		50			.2
		190			.3
		25			.1

NOTE: > = more than

[Signature]
ECO-TECH LABORATORIES LTD.
Frank J. Pezzotti, A.Sc.T.
B.C. Certified Assayer

c.c. Granges Exploration
VIA FAX
ATTENTION: PAT DEVEAUX

SC88/GR-G3



ECO-TECH LABORATORIES LTD.

pd

ASSAYING - ENVIRONMENTAL TESTING

10041 East Trans Canada Hwy., Kamloops, B.C. V2C 2J3 (804) 573-5700 Fax 573-4557

September 23, 1988

CERTIFICATE OF ANALYSIS ETK #88-480

Granges Exploration Ltd.
2300, 885 W. Georgia St.
VANCOUVER, B.C.
V6C 3E6

Attention: George Zbitnoff

SAMPLE IDENTIFICATION: 22 ROCK samples received September 15, 1988
PROJECT NO: 131

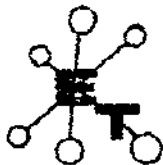
ETK#	Description	(ppb)	Au (g/t) (oz/t)	Ag (ppm)
480 - 1	62100	5		<.1
480 - 2	62101	420		.7
480 - 3	62102	20		.1
480 - 4	62103	<5		.2
480 - 5	62104	>1000	7.42* .216	5.5
480 - 6	62105	105		<.1
480 - 7	62106	20		<.1
480 - 8	62107	60		<.1
480 - 9	62108	20		<.1
480 - 10	62109	15		<.1
480 - 11	26000	855		1.9
480 - 12	26001	120		.1
480 - 13	26002	>1000	10.96* .320	6.1
480 - 14	26003	100		<.1
480 - 15	26004	270		<.1
480 - 16	5865	50		<.1
480 - 17	5866	20		<.1
480 - 18	5867	<5		<.1
480 - 19	5868	<5		<.1
480 - 20	5869	<5		<.1
480 - 21	26096	<5		<.1
480 - 22	26097	60		<.1

NOTE: < = less than
> = more than
* sample recut, screened and metallics assayed

Frank J. Pezzotti
ECO-TECH LABORATORIES LTD.
Frank J. Pezzotti, A.Sc.T.
B.C. Certified Assayer

c.c. Granges Exploration
VIA FAX
ATTENTION: PAT DEVEAUX

RECEIVED
GRANGES EXPLORATION LTD.
SEP 27 1988
NOTE: _____



ECO-TECH LABORATORIES LTD.

ASSAYING - ENVIRONMENTAL TESTING

10041 East Trans Canada Hwy., Kamloops, B.C. V2C 2J3 (604) 673-5700 Fax: 673-4557

September 19, 1988

CERTIFICATE OF ANALYSIS ETK #88-461

Granges Exploration Ltd.
2300, 385 W. Georgia St.
VANCOUVER, B.C.
V6C 3E6

Attention: George Zbitnoff ✓

SAMPLE IDENTIFICATION: 43 ROCK samples received September 6, 1988
PROJECT NO: 131

ETK#	Description	AU (ppb)	AG (ppm)
461 - 1	5926	30	0.1
461 - 2	5927	10	0.1
461 - 3	5928	30	0.2
461 - 4	5929	130	1.6
461 - 5	5930	345	0.4
461 - 6	5931	285	0.5
461 - 7	455 5932	70	0.1
461 - 8	5933	80	0.1
461 - 9	5934	10	0.1
461 - 10	5935	240	1.1
461 - 11	5936	45	0.3
461 - 12	5937	50	0.1
461 - 13	5938	310	0.4
461 - 14	5939	410	2.6
461 - 15	26067	520	1.0
461 - 16	26068	140	0.1
461 - 17	26069	35	0.1
461 - 18	26070	540	0.2
461 - 19	26071	215	0.3
461 - 20	26072	240	0.3
461 - 21	26073	635	0.3
461 - 22	26074	310	0.2
461 - 23	26075	445	1.3
461 - 24	26076	495	0.5
461 - 25	26077	240	1.5
461 - 26	26078	195	0.1
461 - 27	26079	180	0.4
461 - 28	26080	155	1.5
461 - 29	26081	495	0.8
461 - 30	26082	175	0.1



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ASSAYING • ENVIRONMENTAL TESTING

10041 East Trans Canada Hwy., Kamloops, B.C. V2C 2J5 (604) 572-6700 Fax 573-4567

September 14, 1988

CERTIFICATE OF ANALYSIS ETK #88-460

Granges Exploration Ltd.
2300, 885 W. Georgia St.
VANCOUVER, B.C.
V6C 3E6

Attention: George Zbitzoff ✓

SAMPLE IDENTIFICATION: 2# ROCK samples received September 6, 1988
PROJECT NO: 131

ETK#	Description	Ag (ppb)	Ag (ppm)
460 - 1	5851	60	.1
460 - 2	5852	70	.1
460 - 3	5853	40	.1
460 - 4	5854	45	.1
460 - 5	5855	40	.1
460 - 6	5856	50	.1
460 - 7	5857	25	.1
460 - 8	5858	55	.1
460 - 9	5859	40	.1
460 - 10	5860	40	.1
460 - 11	5861	40	.1
460 - 12	5862	20	.3
460 - 13	5863	50	.1
460 - 14	5864	60	.1
460 - 15	5941	65	.2
460 - 16	5942	45	.1
460 - 17	5943	30	.1
460 - 18	5944	30	.1
460 - 19	5945	50	.1
460 - 20	5946	30	.1
460 - 21	5947	35	.1
460 - 22	5948	25	.1
460 - 23	5949	25	.1
460 - 24	5950	35	.1

NOTE: 4# Res. Comp.

[Signature]
FRANK T. PEZZOTTI, A.Sc.T.
B.C. Certified Assayer

c.c. Granges Exploration
VIA FAX
ATTENTION: PAT DEVEREAUX

APPENDIX III

APEX MAXMIN II EM SYSTEM SPECIFICATIONS

OPERATING FREQUENCIES	222, 444, 888, 1777 AND 3555 Hz
MODES OF OPERATION:	<p>a) Transmitter coil plane and receiver coil plane horizontal (Max-coupled; Horizontal Loop mode). Used with reference cable.</p> <p>b) Transmitter coil plane horizontal and receiver coil plane vertical (Min-coupled mode). Used with reference cable.</p> <p>c) Transmitter coil plane vertical and receiver coil plane horizontal, tilted for null in the receiver output. (Vertical loop mode). Used without reference cable, in parallel lines.</p>
COIL SEPARATIONS: (modes a and b)	<p>25, 50, 100, 150, 200 and 250 m (MM II) or 100, 200, 300, 400, 600 and 800 ft. (MM II F) or 40, 80, 120, 160, 200 and 240 m (MM II M) Coil separations in mode c) not restricted to fixed values.</p>
PARAMETERS MEASURED:	<p>a) In-Phase and Quadrature components of the secondary field in modes a) and b).</p> <p>b) Tilt-angle of the total field in mode c).</p>
READOUTS:	<p>a) Automatic, direct readout on 90 mm (3-1/2") edgewise meters in mode a) and b). No nulling or compensation necessary.</p> <p>b) Tilt-angle and null on 90 mm (3-1/2") edgewise meters in mode c).</p>
SCALE RANGES:	<p>In-phase: $\pm 20\%$ normal, $\pm 100\%$ by switch Quadrature: $\pm 20\%$ normal, $\pm 100\%$ by switch Tilt: $\pm 75\%$ slope Null: Null sensitivity adjustable by separation switch</p>
RX BANDWIDTH (-3dB):	0.2 Hz nominal
RX INTERNAL NOISE:	Negligible
READING REPEATABILITY:	$\pm 1/2\%$ to $\pm 1\%$, normally, depending on conditions, frequency and coil separation used.
TRANSMITTER DIPOLE MOMENT:	<p>150 Atm^2 @ 222 Hz, 150 Atm^2 @ 444 Hz, 90 Atm^2 @ 888 Hz, 60 Atm^2 @ 1777 Hz and 30 Atm^2 @ 3555 Hz</p>
RECEIVER BATTERIES:	9V transistor radio type, 4 batteries. Life: approx. 35 hrs continuous duty (alkaline; .5Ah), less in cold weather.
TRANSMITTER BATTERIES:	<p>a) 12V 7.5Ah Gel-Cell rechargeable batteries (2 x 6V in series)</p> <p>b) 18V 21Ah alkaline lantern batteries (3 x 6V in series). Transmitter current drain 0.5A to 2.2A depending on operating frequency.</p>
REFERENCE CABLE:	Light weight, special teflon cable for minimum friction. Unshielded.
OPERATING TEMPERATURE:	-40°C to $+60^{\circ}\text{C}$ (-40°F to $+140^{\circ}\text{F}$)
WEIGHT OF RECEIVER UNIT:	6 kg (13 lbs)
WEIGHT OF TRANSMITTER UNIT:	13.5 kg (30 lbs)
OTHER MAIN FEATURES:	Built-in Intercom system for communication between receiver and transmitter unit. Signal and reference warning lights to indicate erroneous readings.
MANUFACTURER:	<p>APEX PARAMETRICS LIMITED Box 818, R.R. No. 1 Uxbridge, Ontario CANADA L0C 1K0</p>

APPENDIX IV
(1987 Exploration Report)
(In pocket)



GRANGES
EXPLORATION LTD.

885 WEST GEORGIA STREET,
23RD FLOOR
VANCOUVER, B.C. CANADA V6C 3E8
TELEPHONE: (604) 687-2831
TELEX: 04-53409
TELECOPIER: (604) 687-8699

GRANGES EXPLORATION LTD.

Exploration and Geological Report

on

The Eva - Oyster - Criterion - Lucky Jack Projects
Southeastern British Columbia

for

LUCKY STRIKE RESOURCES LTD.

April 20, 1988

P. J. Deveaux
Consulting Geologist

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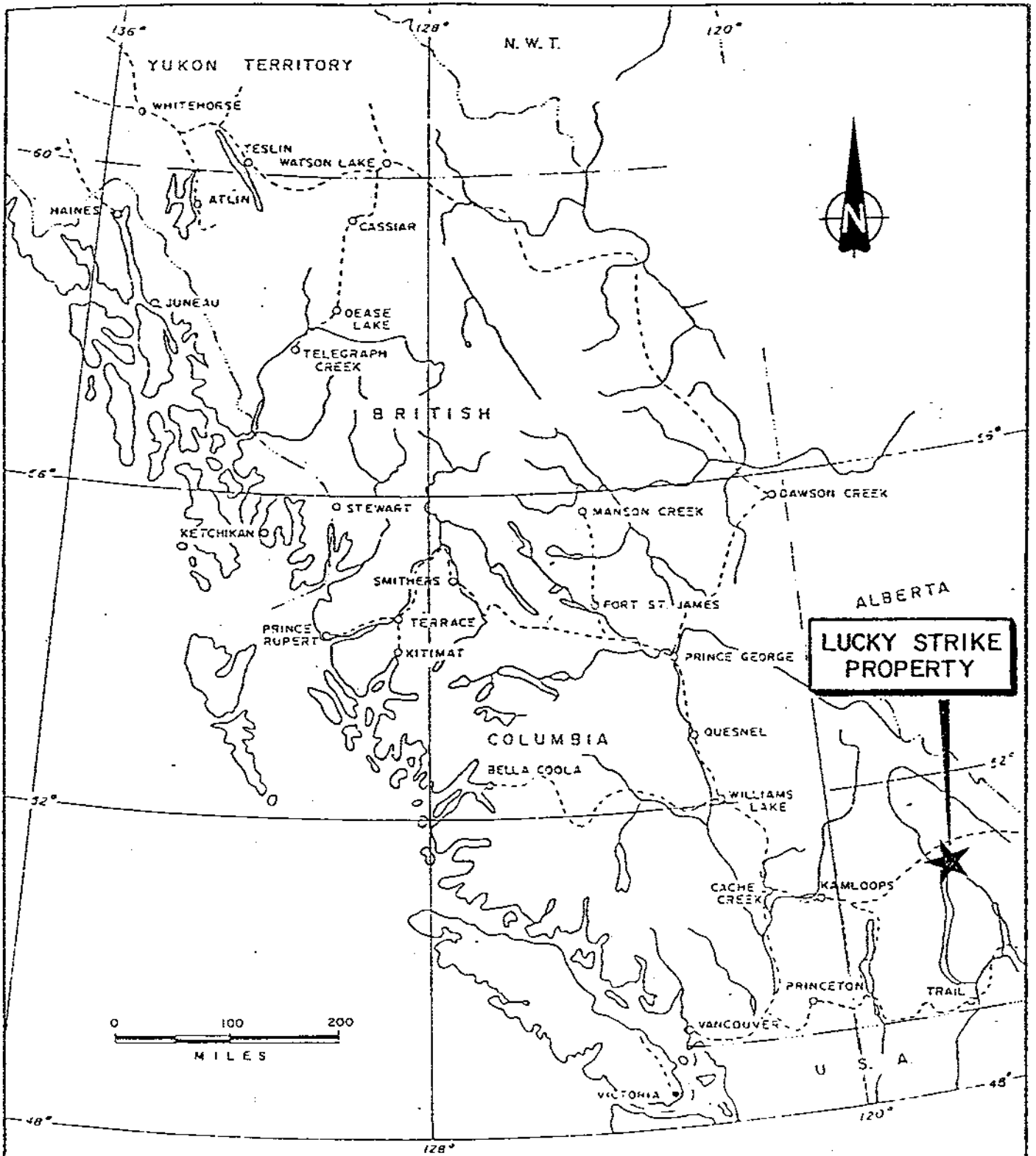
MAPS

<i>Location Map</i>	<i>Figure 1</i>
<i>Claim Map</i>	<i>Figure 2</i>
<i>Claim & Grid Map</i>	<i>Figure 3</i>
<i>Property Map</i>	<i>Figure 4</i>
<i>Regional Geology Map</i>	<i>Figure 5</i>

APPENDIX I

Geochemical Maps for:

<i>GOLD, SILVER, COPPER, LEAD, ZINC</i>	<i>Attached</i>
<i>LONGITUDINAL PROJECTION - EVA MINE</i>	<i>Attached</i>
<i>DRILL HOLE CROSS SECTIONS</i>	<i>Attached</i>



LOCATION MAP

GRANGES EXPLORATION LTD.

(LUCKY OPTION)

EVA - OYSTER - CRITERION - LUCKY JACK PROJECTS

CAMBORNE AREA, BRITISH COLUMBIA

Exploration Summary

A surface exploration program was carried out during the period of August to November 1987 on the Lucky Strike Resources Ltd. property located above Camborne some 40 kilometres southeast of Revelstoke, British Columbia. The property consists of 26 reverted crown grants covering an area of over 526.5 acres.

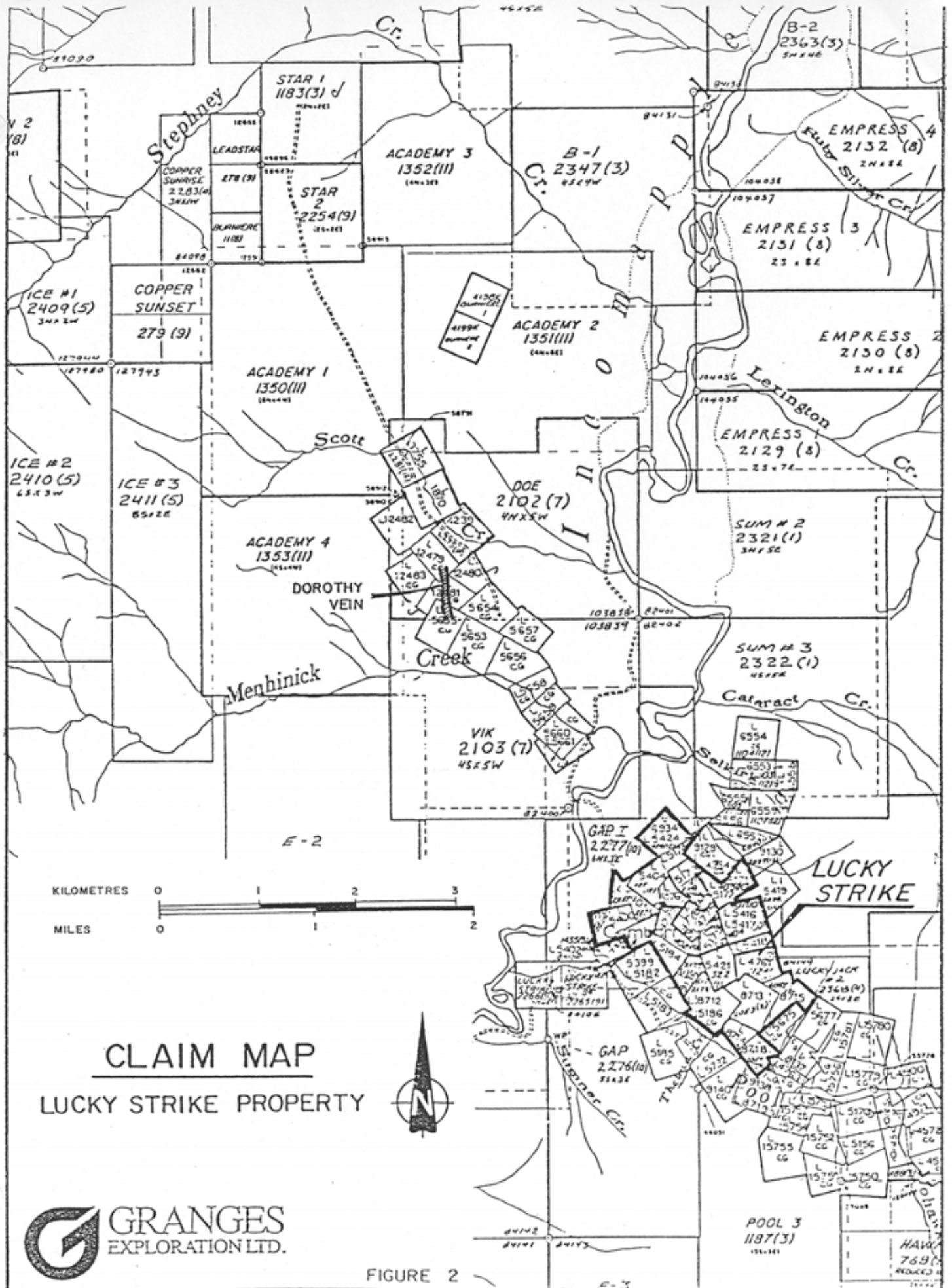
Diamond Drilling

A five-hole diamond drilling program totalling 462.38 metres (1,517 feet) was carried out by Granges Exploration Ltd. No significant values were intersected.

Of this total, four holes (1,059 feet) were drilled to investigate the south end of the Lucky Jack Vein at depth. These holes were located above the upper adit near the north boundary of the Steve Namon claim. Several narrow, badly broken and sheared quartz veins sparsely mineralized with pyrite were intersected. These veins carried no significant gold values and do not appear to represent the down dip extensions of the gold-bearing Lucky Jack vein found at surface and reported from the lower adit.

Two surface grab samples, one containing isolated pyrite cubes, and the other, "bull" quartz only, taken on the vein above the upper adit, assayed 17.50 grams and 41.40 grams gold respectively.

A fifth hole, (458 feet) located near the northern boundary of the Iron Dollar claim, was drilled to explore the down plunge or northerly extension of the Eva structure below the 5B or 6B adit. A narrow quartz vein with trace pyrite followed by a broken graphitic argillite and fault zone was intersected 77 metres vertically below the surface location of the B vein. This zone carried no significant values.



Line Cutting

A total of 9.08 kilometres of base line and surveyed sections lines were completed on the property. The base lines are spaced 500 metres apart.

Geochemistry

A total of 1993 soil samples were collected. Samples were taken every 25 metres along flagged and compass section lines spaced 50 metres apart. All samples were analysed for gold (PPB) silver (PPM) copper, lead, zinc, and arsenic (PPM). The analysis was carried out by Eco-Tech Laboratories Ltd. in Kamloops. Most of the favourable area covered by the claim was sampled except for the very precipitous areas where sampling was not possible. Additionally, areas along the valley near the Fish River where there is heavy overburden were left out.

Several strong gold geochemical anomalies with associated silver, lead and zinc were located in the central part of the claim group. These anomalous trends appear to coincide with the Eva - Oyster - Criterion - Lucky Jack and possibly Red Horse structures. The latter has not been tied in to the grid. Several short-but-strong geochemical anomalies located west of the 5,000 E baseline may be related to the cholla and Tommy vein. The latter is shown to be located immediately west of our western claim boundary. Results for arsenic await computer plotting.

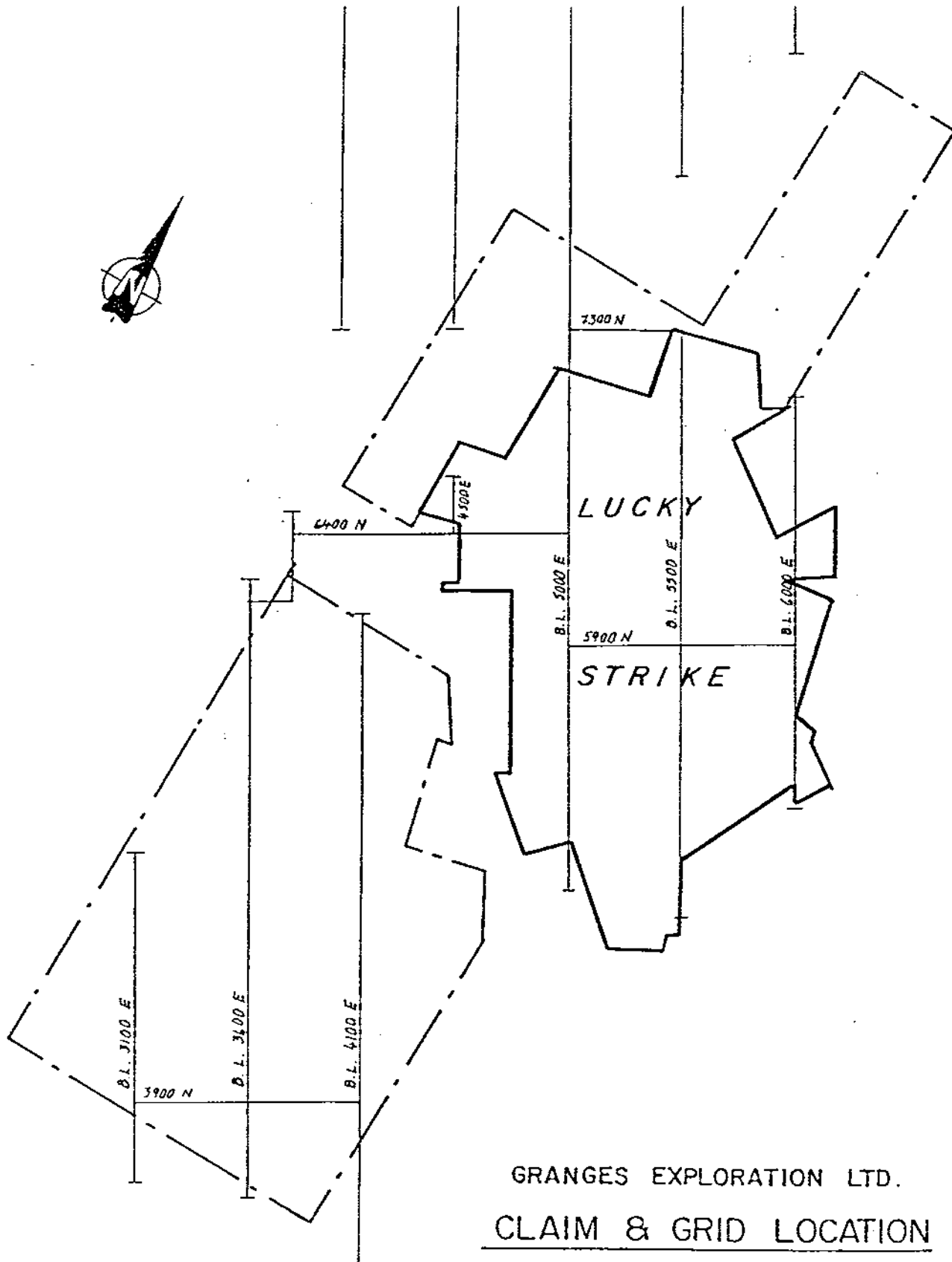
Additional Exploration Highlights

Two samples of quartz with pyrite taken from the Rossland dump assayed 106.80 grams gold, 35.2 grams silver and 3.59 grams Au, 2.0 grams Ag respectively. Two samples from the Lucky Jack vein on surface assayed 17.50 grams Au, 6.4 grams Ag, and 41.40 grams Au, 10.1 grams Ag.

Most of the Eva - Oyster - Criterion and Lucky Jack adits were located and tied in to the new grid. Attempts to reopen the Rossland and Lucky Jack adits were not successful.

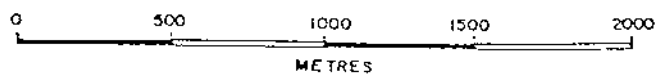
Several of the lower Eva workings on the B and A structures were inspected. The lowest working on the A vein (7A) was followed almost to its southern limit near the Oyster - Criterion workings. This level is in surprisingly good condition.

The existing road was reopened and improved so that access by four-wheel drive vehicles is now possible up to the upper Eva workings, the Lucky Jack adits and back down past the Rossland adit to a point above the Cholla adits.



GRANGES EXPLORATION LTD.
CLAIM & GRID LOCATION
LUCKY STRIKE PROPERTY

REVELSTOKE MINING DIVISION, B.C.



SCALE: 1 : 2 500

FIGURE 3

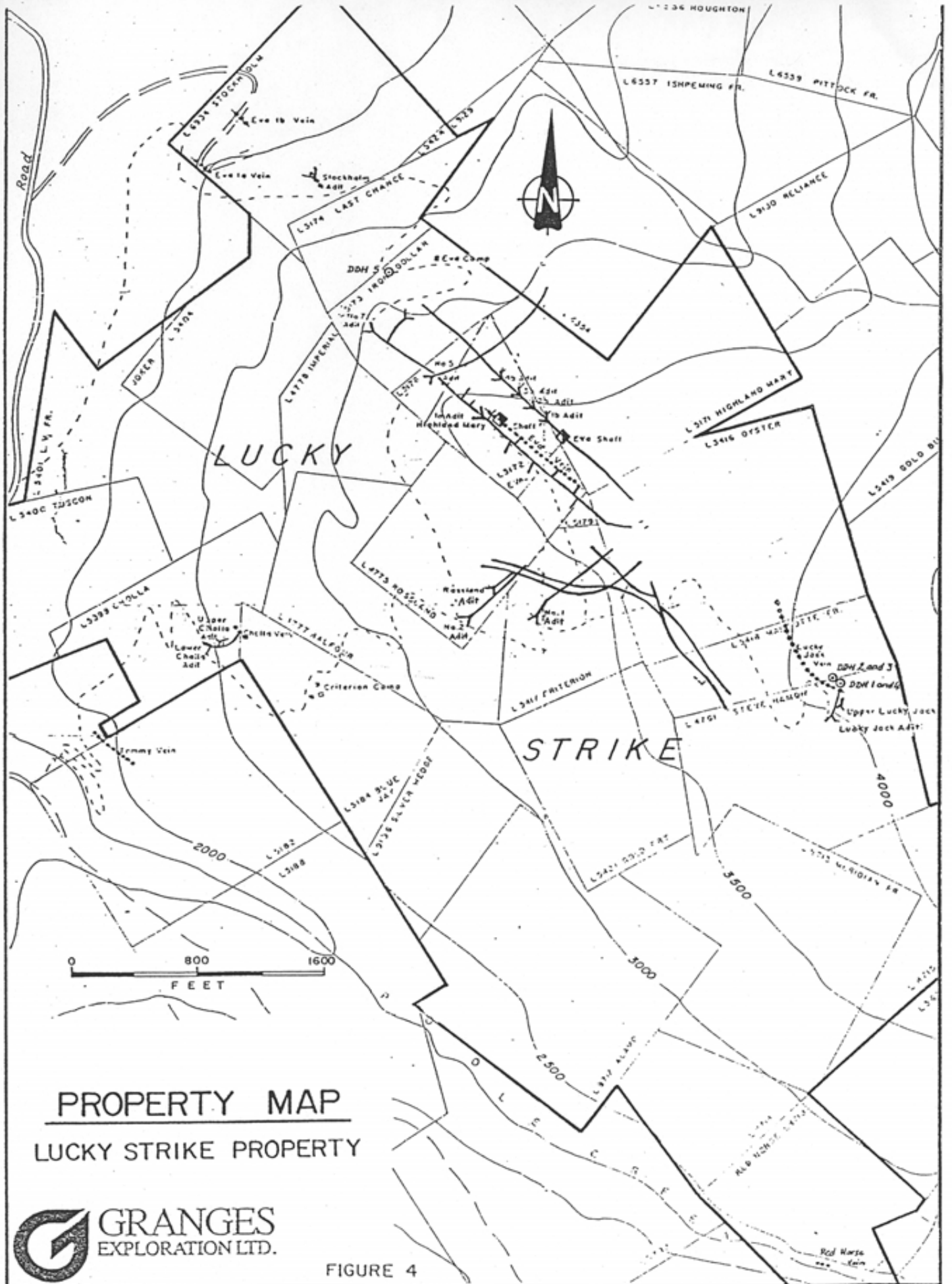
Proposed Exploration 1988

Detailed mapping and sampling of all known surface and accessible underground vein structures is planned. All adits and accessible workings will be surveyed and tied in to the new grid. Geochemical anomalies located during 1987 will be followed up and new targets will be investigated by cat and/or backhoe followed by diamond drilling. A drilling program to investigate the Eva - Oyster - Criterion and the two Lucky Jack structures below the old underground workings is planned for the summer of 1988.

The Property

The Lucky Strike group of mineral claims consists of 26 reverted crown grants covering an area of over 526.5 acres located in the Revelstoke Mining Division, British Columbia. The following is a list of claims comprising the property.

GROUP I			
<u>Reverted</u>	<u>Crown Grants</u>	<u>Area (Ac)</u>	<u>Remarks</u>
L 4761	Steve Namon	29.73	
L 5418	Mascotte Fr.	13.44	
L 5421	Gold Fly	24.03	
L 4777	Balfour	25.62	
L 5184	Blue Jay	21.45	
L 5417	Criterion	15.76	
L 4775	Rosland	21.50	
L 5171	Highland Mary	34.75	
L 5172	Eva	10.65	
L 5176	Wedge Fraction	2.49	
L 5173	Iron Dollar	14.75	
L 5416	Oyster	42.51	
L 6734	Stockholm	32.37	
L 5424	Stockholm Fr.	1.13	
L 5404	Joker	23.62	
L 5174	Last Chance	13.21	
L 5399	Cholla	18.00	TOTAL 345 ACRES
GROUP II			
L 8715	Lucky Jack	13.42	
L 8714	J. J. Davis	87.14	
L 8718	Red Horse	9.51	
L 8713	Meridian Fraction	17.50	
L 5400	Tucson	12.23	
L 4778	Imperial	5.57	
L 5401	L. V. Fraction	9.34	
L 9136	Silver Wedge	7.20	
L 8712	Alamo	19.57	TOTAL 181.5 ACRES
TOTAL I AND II = 526.5 ACRES			



PROPERTY MAP

LUCKY STRIKE PROPERTY



FIGURE 4

Location

The Lucky Strike group of mineral claims is located some 40 kilometres southeast of the town of Revelstoke, British Columbia, above the old mining town of Camborne on the east side of the Incommapleux River which flows into the northeast arm of Upper Arrow Lake.

The property elevation is variable from just under 500 metres (1,600 feet) near the Incommapleux (Fish) River near the northwest boundary of the Lucky Strike ground to over 1,219 metres (4,000 feet) above sea level.

Access

The property is accessible via Highway 31 from the Galena Bay ferry on Upper Arrow Lake. It is 18 kilometres to the Beaton/Camborne junction, then 16 kilometres farther through the old mining town of Camborne to the turnoff near the bridge crossing the Fish River. From this point at the valley bottom (500 m elevation) it is a further 2.5 km via switchback access road to the upper Eva workings over a vertical height of 900 metres. The Lucky Jack workings are located a further 730 m at the 1,219 m level.

The usual summer working season for the property extends from late May to November.

History

At the turn of the century, a number of thriving mining communities such as Trout Lake, Fergusson, and Camborne existed in the Lardeau district. Most of the initial interest in the area resulted from the Eva gold discovery on the Iron Dollar claim in 1900 with the subsequent mining and milling of 31,656 tons averaging 0.219 ounces gold over a period of 30 years. Following the discovery, the Criterion and Meridian structure produced some 56,086 tons of 0.148 ounces Au and 10,1002 tons of 0.100 was mined from the adjoining Oyster claim. On the Lucky Jack vein, located on the Steve Namon claim, the lower of two adits is reported to have intersected 0.37 ounces gold over 14 feet and 12 feet averaging 0.390 ounces gold. This vein is exposed on surface and two grab samples taken by the writer averaged 17.50 grams and 41.40 grams gold respectively. The Spider or Sunshine Lardeau and now K-2 at Camborne mined and milled 141,000 tons at 0.08 ounces Au, 12.2 ounces Ag, 8.5% Pb and 9.0% Zn.

Current Activity

Granges Exploration Ltd., through a joint venture with Windflower Mining Ltd., is currently exploring via an underground decline the Independence property. Granges has outlined by surface diamond drilling some 150,000 tons averaging 0.25 ounces gold. The ore is contained in a mineralized quartz vein on the Dorothy Crown grant located just across the valley from the Lucky Strike ground at an elevation of 1,066 metres (3,500 feet).

Regional Geology

The claim area is underlain by metasediments and volcanics of the Lardeau group of Paleozoic age. A regional fault structure strikes across the map sheet for many kilometres extending along the northeast side of Trout Lake and southerly towards the Slocan. Numerous mineral properties have been staked along this trend over the years, including such producers as the Spider Mine located at Camborne which produced some 141,000 tons of gold, silver, lead, and zinc ore.

Property Geology

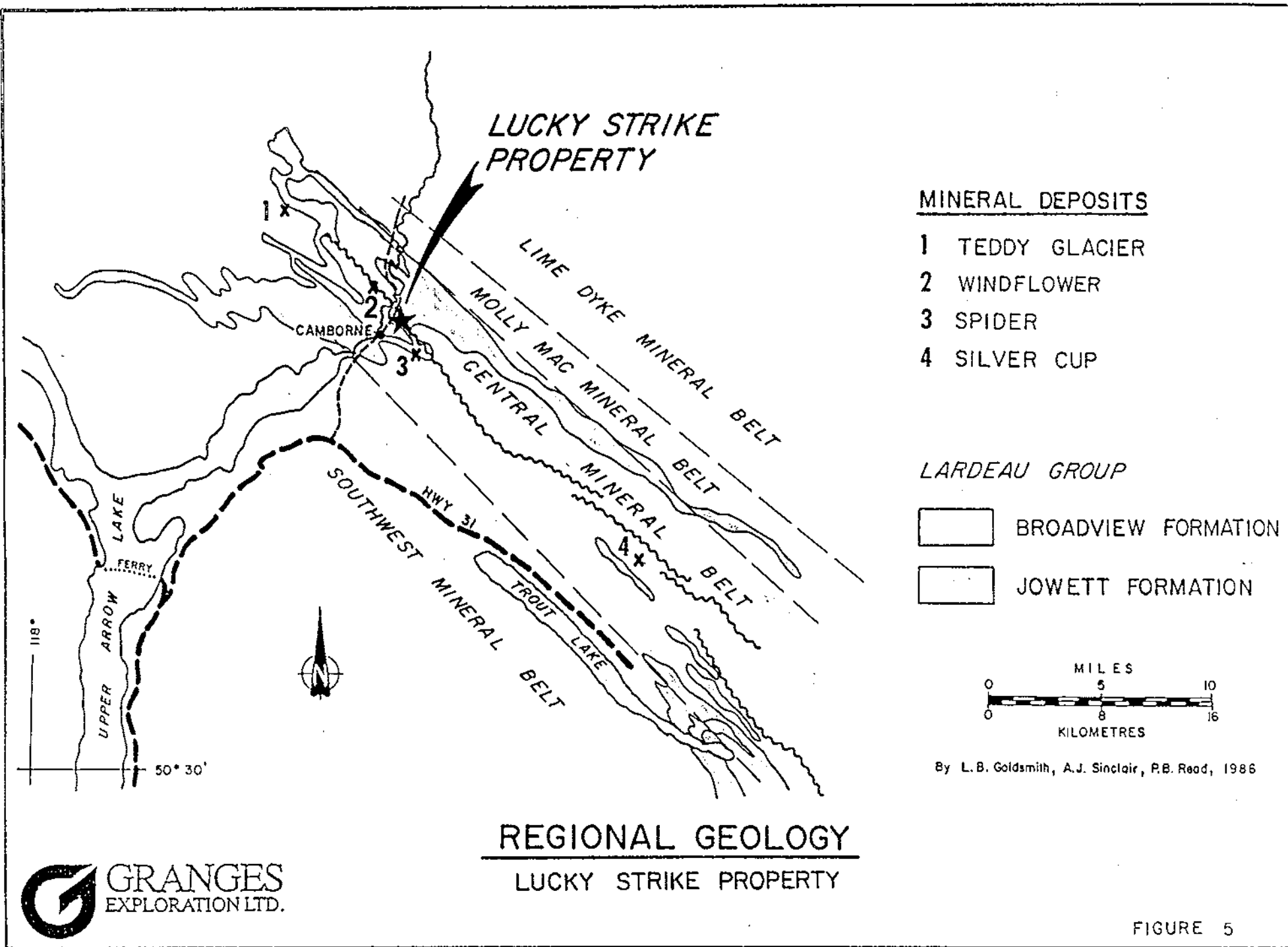
No detail mapping has been carried out. However, based on observations from drill cores and in the vicinity of the main showings and underground workings, the claim area is underlain by the Broadview argillites, graphitic argillites, phyllites, (dolomites?), and Jowett andesitic volcanics. The major structural break or shear which extends across the claim group from northwest to southeast may be more or less following the contact between the metasedimentary Broadview Formation and the predominantly volcanic Jowett Formation.

Quartz veining varying from narrow quartz veinlets of just a few centimetres in width to veins of many feet occur on the property apparently associated with the regional fault structure. The quartz veins appear as stockworks in some areas. This is evident at the upper or southern end of the Eva mine structure. Large masses of quartz were developed as a result of stockwork where the cross-veins join the main "A" and "B" veins. Such areas appear to be enriched in pyrite mineralization containing gold. Generally, the main quartz veins appear to strike nearly parallel with the general strike of the argillaceous Broadview Formation (N25 degrees west to N45 degrees west). Dips are generally steep at the Eva but flatten to 35 degrees on the Lucky Strike vein.

Mineralization

The gold bearing quartz vein systems, the target of exploration on the property, appear to be structurally related to a major shear zone which runs northwesterly - southeasterly across the property. Although overburden obscures the strikes and attitudes of most veins, there appears to be an en-echelon pattern to some of the veining (Eva Mine) parallel or nearly parallel to the strike of the shear. (Approximately 329 degrees).

The quartz veins contain iron-rich carbonate (siderite and/or ankerite) and small quantities of sulphides with free gold. The sulphides are predominantly pyrite sometimes crystallized in the form of cubes with lesser galena and sphalerite. Gold occurs, visible to the naked eye, both in the solid quartz, in seams in the quartz, on along the selvedge of a vein. It is often concentrated along the walls of the vein or around the inclusions. As the walls and inclusions are often highly graphitic as in the Eva "B" Vein and Oyster-Criterion structure, the graphite may be responsible for the enrichment.


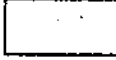


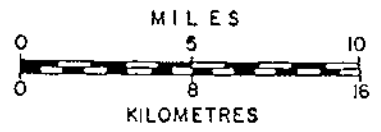
LUCKY STRIKE PROPERTY

MINERAL DEPOSITS

- 1 TEDDY GLACIER
- 2 WINDFLOWER
- 3 SPIDER
- 4 SILVER CUP

LARDEAU GROUP

-  BROADVIEW FORMATION
-  JOWETT FORMATION



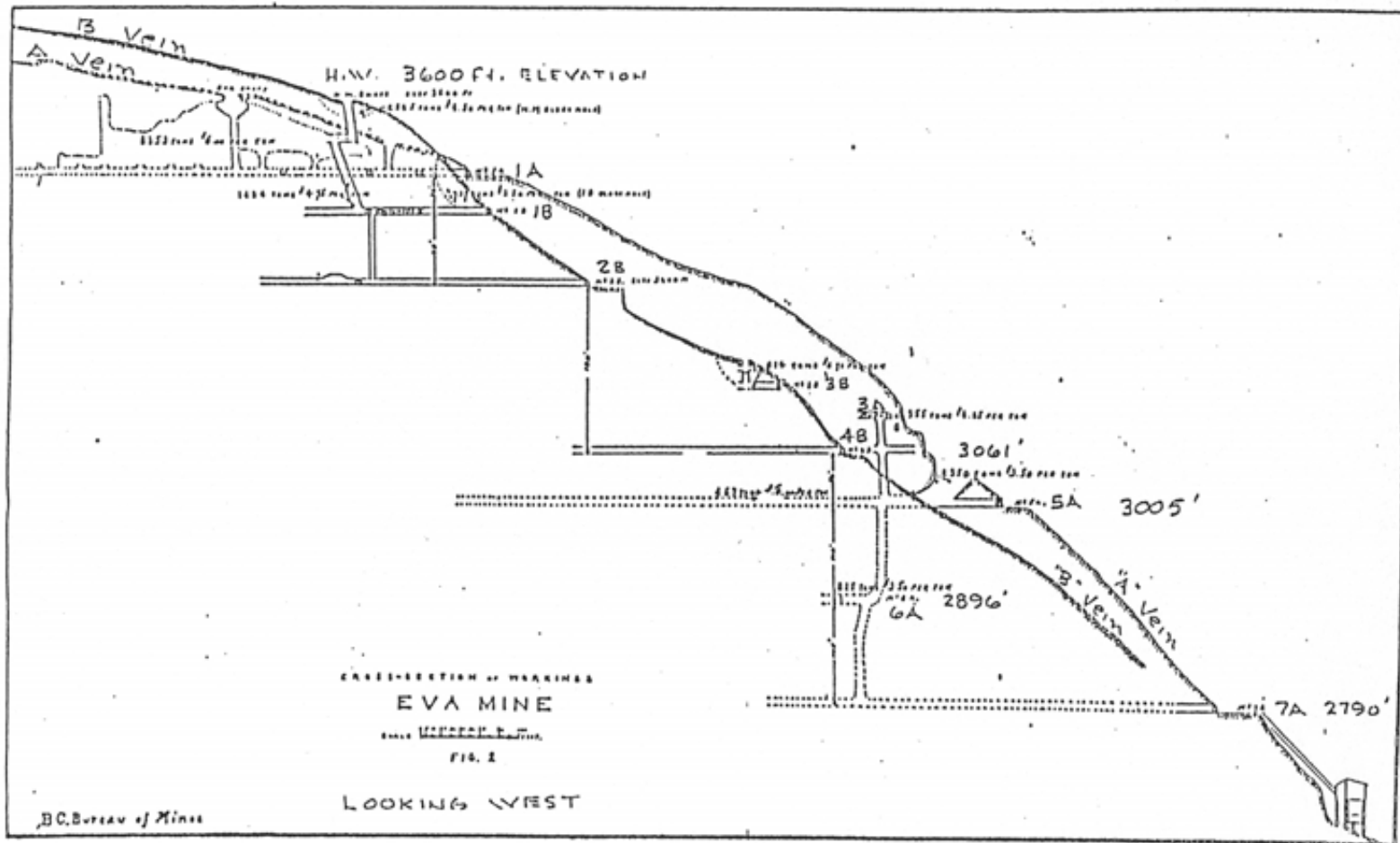
By L. B. Goldsmith, A. J. Sinclair, P. B. Read, 1986

REGIONAL GEOLOGY

LUCKY STRIKE PROPERTY

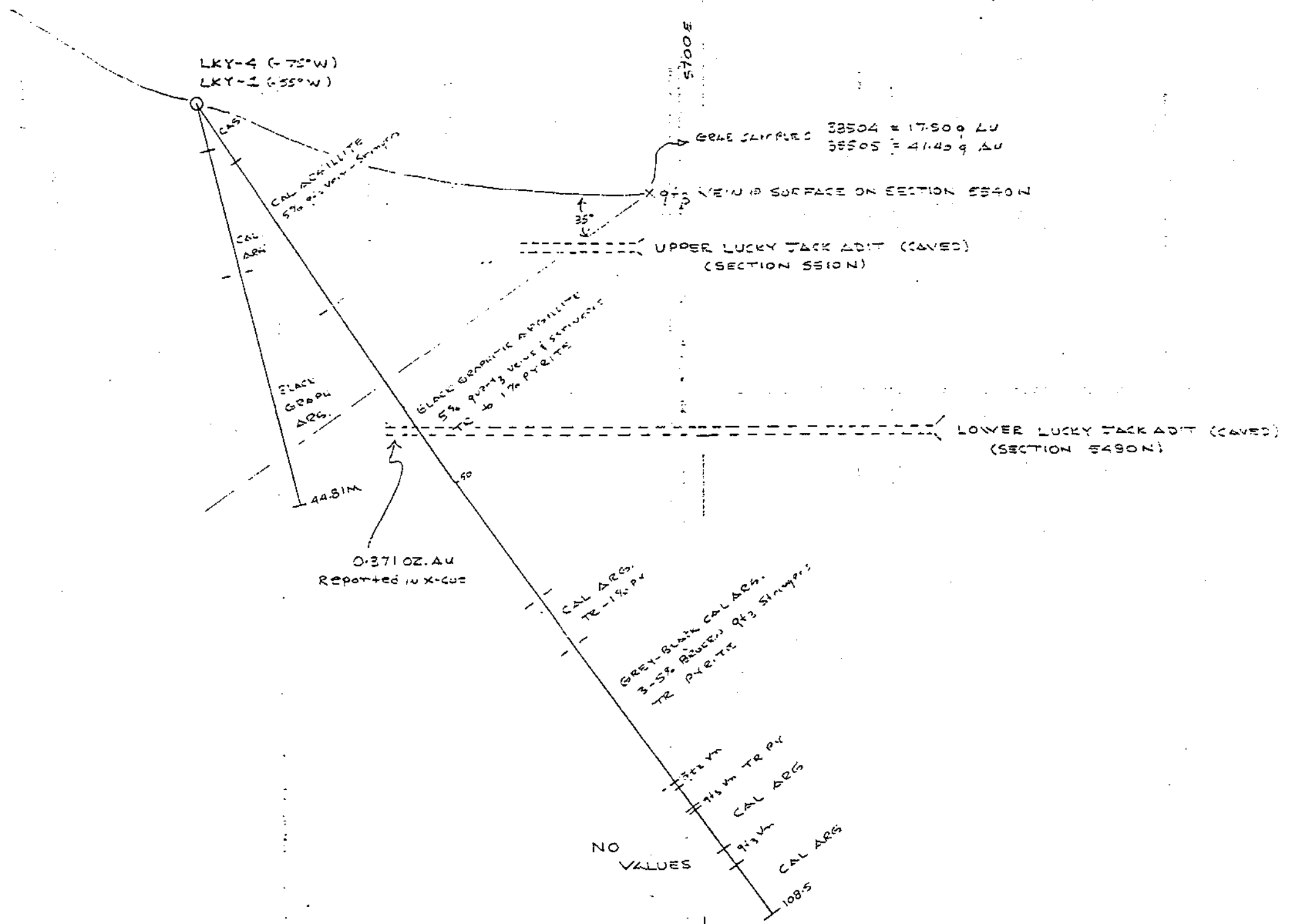


FIGURE 5



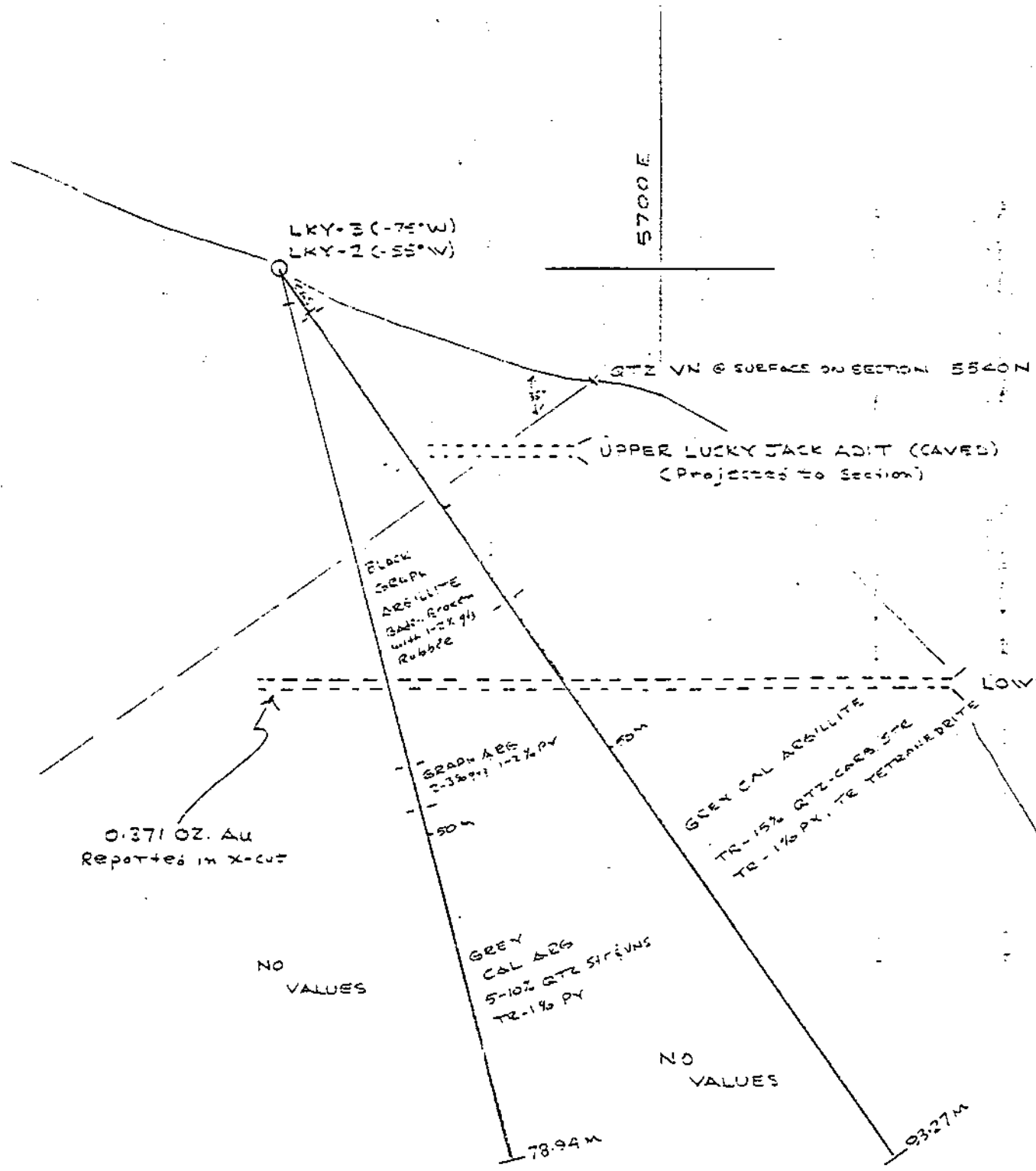
LKY-5 0 ?

5800E



SECTION 5525 N
 LUCKY OPTION
 CAMBORNE AREA B.C.
 SCALE 1:500 LOOKING SOUTH

5800 E



SECTION 5599N
LUCKY OPTION
CAMBORNE AREA BC.
SCALE 1:500 LOOKING SOUTH

LUCKY-E (-45°N)

LUCKY ADIT

GEORGE ADIT
EVA MINE

X B VEIN-EVA

5500 E BASE LINE

7A ADIT - EVA MINE

GREEN-GREY ARGILLITE
VOLCANIC TUFF
Q.C. QTZ STR. (E.V. 11/15)

50

GRAPH. ARG. - 5% QTZ - RUBBLE (50%
DIFFUSE QTZ - 1-2% C.M.S. - 7% PY
DIF. QTZ V.I. - 10-15% CARB. - 7% PY

GREY CAL. ARGILLITE

100
METACALCIC ARG. RUBBLE (40% CORR. RECON. 14)

30-40% BREV. QU. STR
TR. 4% PYRITE
TR. SPHALERITE, C.P.Y.
SHEAR ZONE - BLACK GRAPH. ARG.
ROUGH & RUBBLE (60% CORR.)

139/6

SECTION 6557N
LUCKY OPTION
CAMBORNE AREA B.C.
SCALE 1:500 LOOKING SOUTH



**ENVIRONMENTAL TESTING
GEOCHEMISTRY
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ASSAYING**

10041 E. Trans Canada Hwy., R.R. #2, Kamloops, B.C. V2C 2J3 Phone (604) 573-5700
Telex: 048-8393

November 18, 1987

CERTIFICATE OF ANALYSIS ETK 87-653

CLIENT: Granges Exploration Ltd.
2300, 885 West Georgia Street
VANCOUVER, B.C.
V6C 3E8

ATTENTION: Mr. George Zbitnoff

SAMPLE IDENTIFICATION: 75 core samples received November 10, 1987
PROJECT: 131 *Lucky*

<u>ETK#</u>	<u>Description</u>	<u>Au</u> <u>(g/t)</u>	<u>Ag</u> <u>(g/t)</u>
L K Y # 653 - 1	60036	.06	.3
653 - 2	60037	.10	.3
653 - 3	60038	.07	.2
653 - 4	60039	.03	.3
653 - 5	60040	.03	.3
653 - 6	60041	.04	.3
653 - 7	60042	.03	.2
653 - 8	60043	<.03	.3
653 - 9	60044	<.03	.3
653 - 10	60045	.07	.5
653 - 11	60046	.05	.8
653 - 12	60047	.04	.6
653 - 13	60048	.08	.5
653 - 14	60049	.04	.7
653 - 15	57976	.05	.2
653 - 16	57977	.03	.2
653 - 17	57978	.04	.2
653 - 18	57979	.07	.2
653 - 19	57980	.07	.3
653 - 20	57981	.08	.3

S. Benischek

Sonja Benischek, Certified Assayer

<u>ETK#</u>	<u>Description</u>	<u>Au</u> <u>(g/t)</u>	<u>Ag</u> <u>(g/t)</u>
653 - 21	57982	.05	.2
653 - 22	57983	.03	.2
653 - 23	57984	.08	.2
653 - 24	57985	.11	.3
653 - 25	57986	.10	.3
653 - 26	57987	.11	.2
653 - 27	57988	.09	.2
653 - 28	57989	.07	.4
653 - 29	57990	.11	.3
653 - 30	57991	.09	.2
653 - 31	57992	.11	.2
653 - 32	57993	.25	.2
653 - 33	57994	.13	.3
653 - 34	57995	.11	.2
653 - 35	57996	.13	.1
653 - 36	57997	.14	.2
653 - 37	57998	.14	.2
653 - 38	57999	.16	.1
653 - 39	60000	.12	.1
653 - 40	60001	.13	<.1
653 - 41	60002	.14	<.1
653 - 42	60003	.08	.2
653 - 43	60004	.10	<.1
653 - 44	60005	.12	<.1
653 - 45	60006	.11	<.1
653 - 46	60007	.11	<.1
653 - 47	60008	.10	.2
653 - 48	60009	.10	<.1
653 - 49	60010	.11	<.1
653 - 50	60011	.10	.1
653 - 51	60012	.11	.2
653 - 52	60013	.09	.2
653 - 53	60014	.10	.3
653 - 54	60015	.09	.1
653 - 55	60016	.08	.2

E

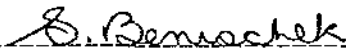
S. Benischek
Sonja Benischek, Certified Assayer

Granges Exploration

November 18, 1987

<u>ETK#</u>	<u>Description</u>	<u>Au</u> <u>(g/t)</u>	<u>Ag</u> <u>(g/t)</u>
653 - 56	60017	.07	.1
653 - 57	60018	.08	.1
653 - 58	60019	.09	.5
653 - 59	60020	.09	.5
653 - 60	60021	.09	.6
653 - 61	60022	.06	.1
653 - 62	60023	.06	.1
653 - 63	60024	.05	<.1
653 - 64	60025	.05	<.1
653 - 65	60026	.06	.1
653 - 66	60027	.04	<.1
653 - 67	60028	.03	<.1
653 - 68	60029	.04	.1
653 - 69	60030	.04	<.1
653 - 70	60031	.05	<.1
653 - 71	60032	.04	<.1
653 - 72	60033	.02	<.1
653 - 73	60034	.03	<.1
653 - 74	60035	.03	<.1
653 - 75	65016	.02	<.1

NOTE: < = less than



ECO-TECH LABORATORIES LTD.
Sonja Benischek,
B.C. Certified Assayer

SB/jmb

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c/o Greyhound
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Page 3 of 3



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Telex: 048-8393

November 18, 1987

CERTIFICATE OF ANALYSIS ETK 87-651

CLIENT: Granges Exploration Ltd.
2300, 885 West Georgia Street
VANCOUVER, B.C.
V6C 3E8

ATTENTION: Mr. George Zbitnoff

SAMPLE IDENTIFICATION: 45 core samples received November 9, 1987
PROJECT: LKY #131

ETK#	Description	Au (g/t)	Ag (g/t)
L K Y # 2			
651 - 1	57931	.07	.4
651 - 2	57932	.08	.4
651 - 3	57933	.08	.3
651 - 4	57934	.07	.3
651 - 5	57935	.07	.3
651 - 6	57936	.06	.2
651 - 7	57937	.11	.3
651 - 8	57938	.06	.2
651 - 9	57939	.06	.2
651 - 10	57940	.06	.2
651 - 11	57941	.09	.2
651 - 12	57942	.10	.1
651 - 13	57943	.09	.2
651 - 14	57944	.10	.2
651 - 15	57945	.08	.2
651 - 16	57946	.09	.2
651 - 17	57947	.10	.2
651 - 18	57948	.08	.3
651 - 19	57949	.08	.2
651 - 20	57950	.09	.2

S. Benischek
Sonja Benischek, Certified Assayer

Granges Exploration

November 18, 1987

<u>ETK#</u>	<u>Description</u>	<u>Au</u> <u>(g/t)</u>	<u>Ag</u> <u>(g/t)</u>
651 - 21	57951	.09	.2
651 - 22	57952	.11	.1
651 - 23	57953	.08	.2
651 - 24	57954	.08	.1
651 - 25	57955	.08	.1
651 - 26	57956	.13	.3
651 - 27	57957	.09	.6
651 - 28	57958	.07	.2
651 - 29	57959	.07	.2
651 - 30	57960	.10	.3
651 - 31	57972 ←	.06	.2
651 - 32	57973	.06	.1
651 - 33	57974	.07	.2
651 - 34	57975 ←	.05	.2
651 - 35	57961	.08	.3
651 - 36	57962	.08	.4
651 - 37	57963	.06	.1
651 - 38	57964	.06	.4
651 - 39	57965	.07	<.1
651 - 40	57966	.06	.2
651 - 41	57967	.19	<.1
651 - 42	57968	.05	<.1
651 - 43	57969	.06	<.1
651 - 44	57970	.05	<.1
651 - 45	57971	.07	.2

NOTE: < = less than

S. Benischek
ECO-TECH LABORATORIES LTD.
Sonja Benischek,
B.C. Certified Assayer

SB/jmb

c.c. Granges Exploration
c/o Greyhound
REVELSTOKE, B.C.
Attention: Pat Deveaux
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Page 2 of 2



rd

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10041 E. Trans Canada Hwy., R.R. #2, Kamloops, B.C. V2C 2J3 Phone (604) 573-5700
Telex: 048-8393

November 19, 1987

CERTIFICATE OF ANALYSIS ETK 87-642

CLIENT: Granges Exploration Ltd.
2300, 885 West Georgia Street
VANCOUVER, B.C.
V6C 3E8

ATTENTION: Mr. George Zbitnoff

SAMPLE IDENTIFICATION: 89 core samples received November 6, 1987
PROJECT: 131

ETK#	Description	Au (g/t)	Ag (g/t)
642 - 1	57742	.07	.5
642 - 2	57743	.08	.5
642 - 3	57744	.06	.4
642 - 4	57745	.05	.3
642 - 5	57746	.05	.3
642 - 6	57747	.06	.5
642 - 7	57748	.08	.6
642 - 8	57749	.12	.1
642 - 9	57750	.21	.9
642 - 10	57751	.11	1.1
642 - 11	57752	.08	1.3
642 - 12	57753	.11	1.6
642 - 13	57754	.08	1.1
642 - 14	57755	.08	1.1
642 - 15	57756	.05	.6
642 - 16	57757	.07	.8
642 - 17	57758	.08	1.0
642 - 18	57759	.06	.9
642 - 19	57760	.07	.8
642 - 20	57761	.07	.9

Lucky

LKY-1

E

E

S. Benischek

Sonja Benischek, Certified Assayer

Granges Exploration

November 19, 1987

<u>ETK#</u>	<u>Description</u>	<u>Au</u> <u>(g/t)</u>	<u>Ag</u> <u>(g/t)</u>
642 - 21	57762	.06	.7
642 - 22	57763	.06	.8
642 - 23	57764	.06	.6
642 - 24	57765	.07	.9
642 - 25	57766	.08	.9
642 - 26	57767	.06	.8
642 - 27	57768	.03	.3
642 - 28	57769	.05	.3
642 - 29	57770	.11	.1
642 - 30	57771	.36	.3
642 - 31	57772	.04	.2
642 - 32	57773	.04	.2
642 - 33	57774	.05	.4
642 - 34	57775	.05	.3
642 - 35	57776	.03	<.1
642 - 36	57777	.05	<.1
642 - 37	57778	.04	.1
642 - 38	57779	.05	.2
642 - 39	57780	.06	.2
642 - 40	57781	.08	.4
642 - 41	57782	.05	.2
642 - 42	57783	.04	.3
642 - 43	57784	.05	.5
642 - 44	57785	.05	.4
642 - 45	57786	.05	.3
642 - 46	57787	.06	.5
642 - 47	57788	.07	.6
642 - 48	57789	.08	.8
642 - 49	57790	.07	.7
642 - 50	57791	.04	.5
642 - 51	57792	.07	.9
642 - 52	57793	.23	.9
642 - 53	57794	.69	1.8
642 - 54	57795	.04	<.1
642 - 55	57796	.05	<.1

E

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Granges Exploration

November 19, 1987

<u>ETK#</u>	<u>Description</u>	<u>Au</u> <u>(g/t)</u>	<u>Ag</u> <u>(g/t)</u>
642 - 56	57797	.06	.5
642 - 57	57798	.05	.4
642 - 58	57799	.05	.1
642 - 59	57800	.06	.9
642 - 60	57801	.03	3.4
642 - 61	57802	.06	.4
642 - 62	57803	.04	.3
642 - 63	57804	.10	.7
642 - 64	57805	.08	.5
642 - 65	57806	.05	.2
642 - 66	57807	.05	.1
642 - 67	57808	.06	.2
642 - 68	57809	.04	.1
642 - 69	57810	.04	.1
642 - 70	57811	.05	.3
642 - 71	57812	.13	.2
642 - 72	57813	.05	.1
642 - 73	57814	.04	<.1
642 - 74	57815	.04	<.1
642 - 75	57816	.04	<.1
642 - 76	57817	.04	<.1
642 - 77	57818	.03	<.1
642 - 78	57819	.09	.2
642 - 79	57820	.05	.1
642 - 80	57821	.03	<.1
642 - 81	57822	.04	<.1
642 - 82	57823	.03	<.1
642 - 83	57824	.05	<.1
642 - 84	57825	.05	.2
642 - 85	57826	.73	.3

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Granges Exploration

November 18, 1987

<u>ETK#</u>	<u>Description</u>	<u>Au</u> <u>(g/t)</u>	<u>Ag</u> <u>(g/t)</u>
642 - 86	57827	.04	.1
642 - 87	57828	.07	<.1
642 - 88	57829	.05	.1
642 - 89	57830	.05	.1

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NOTE: < = less than

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B.C. Certified Assayer

SB/jmb

c.c. Granges Exploration
c/o Greyhound
REVELSTOKE, B.C.
Attention: Pat Deveaux
"Hold for Pickup"

Page 4 of 4



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**ENVIRONMENTAL TESTING
GEOCHEMISTRY
ANALYTICAL CHEMISTRY
ASSAYING**

10041 E. Trans Canada Hwy., R.R. #2, Kamloops, B.C. V2C 2J3 Phone (604) 573-5700
Telex: 048-8393

November 27, 1987

CERTIFICATE OF ANALYSIS ETK 87-670

CLIENT: Granges Exploration Ltd.
2300, 885 West Georgia Street
VANCOUVER, B.C.
V6C 3E8

ATTENTION: Mr. George Zbitnoff

SAMPLE IDENTIFICATION: 12 core samples received November 16, 1987
PROJECT: 131

<u>ETK#</u>	<u>Description</u>	<u>Au</u> <u>(g/t)</u>	<u>Ag</u> <u>(g/t)</u>
L K Y * * 670 - 1	60050	.05	.1
670 - 2	60051	.04	.1
670 - 3	60052	.04	.1
670 - 4	60053	.05	.1
670 - 5	60054	.08	.1
670 - 6	60055	.05	.1
670 - 7	60056	<.03	.1
670 - 8	60057	<.03	.2
670 - 9	60058	<.03	<.1
670 - 10	60059	<.03	<.1
670 - 11	60060	.06	.1
670 - 12	60061	.03	.1

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NOTE: < = less than

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ECO-TECH LABORATORIES LTD.
Per Sonja Benischek,
B.C. Certified Assayer

SB/jmb

c.c. Granges Exploration
c/o Greyhound
REVELSTOKE, B.C.
Attention: Pat Deveaux
"Hold for Pickup"



PT

**ENVIRONMENTAL TESTING
GEOCHEMISTRY
ANALYTICAL CHEMISTRY
ASSAYING**

10041 E. Trans Canada Hwy., R.R. #2, Kamloops, B.C. V2C 2J3 Phone (604) 573-5700
Telex: 048-8393

December 4, 1987

CERTIFICATE OF ANALYSIS ETK 87-704

CLIENT: Granges Exploration Ltd.
2300, 885 West Georgia Street
VANCOUVER, B.C.
V6C 3E8

ATTENTION: Mr. George Zbitnoff

SAMPLE IDENTIFICATION: 137 core samples received November 30, 1987
PROJECT: 131

ETK#	Description	Au (g/t)	Ag (g/t)
L K Y S 704 - 1	60161	.07	.6
704 - 2	60162	.05	.2
704 - 3	60163	.12	.5
704 - 4	60164	.20	.3
704 - 5	60165	.09	.4
704 - 6	60166	.41	1.9
704 - 7	60167	.12	.6
704 - 8	60168	.14	.5
704 - 9	60169	.14	.6
704 - 10	60170	.11	.4
704 - 11	60171	.15	.5
704 - 12	60172	.23	1.0
704 - 13	60173	.19	.7
704 - 14	60174	.22	.9
704 - 15	60175	.21	.8
704 - 16	60176	.56	.6
704 - 17	60177	.13	.5
704 - 18	60178	.15	.5
704 - 19	60179	.10	.3
704 - 20	60180	.12	.4

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Granges Exploration

December 4, 1987

<u>ETK#</u>	<u>Description</u>	<u>Au</u> (g/t)	<u>Ag</u> (g/t)
704 - 21	60181	.26	.1
704 - 22	60182	.13	<.1
704 - 23	60183	.38	.3
704 - 24	60184	.14	.3
704 - 25	60185	.53	.7
704 - 26	60186	.10	.1
704 - 27	60187	.13	.4
704 - 28	60188	.12	.6
704 - 29	60189	.11	.6
704 - 30	60190	.18	.7
704 - 31	60191	.07	.4
704 - 32	60192	.12	.5
704 - 33	60193	.06	.4
704 - 34	60160 ←	.08	.2
704 - 35	60194	.04	.2
704 - 36	60195	.03	.2
704 - 37	60196	.03	.1
704 - 38	60197	.06	.1
704 - 39	60198	.07	.2
704 - 40	60062 ✓	.06	.1
704 - 41	60063	.04	<.1
704 - 42	60064	.05	.1
704 - 43	60065	.06	<.1
704 - 44	60066	.06	<.1
704 - 45	60067	.07	.1
704 - 46	60068	.05	<.1
704 - 47	60069	.06	<.1
704 - 48	60070	.05	<.1
704 - 49	60071	.07	<.1
704 - 50	60072	.04	<.1
704 - 51	60073	.04	<.1
704 - 52	60074	.07	<.1
704 - 53	60075	.11	<.1
704 - 54	60076	.05	<.1
704 - 55	60077	.06	<.1

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Granges Exploration

December 4, 1987

<u>ETK#</u>	<u>Description</u>	<u>Au</u> <u>(g/t)</u>	<u>Ag</u> <u>(g/t)</u>
704 - 56	60078	.05	<.1
704 - 57	60079	.06	<.1
704 - 58	60080	.04	<.1
704 - 59	60081	<.03	<.1
704 - 60	60082	.03	.1
704 - 61	60083	.04	.4
704 - 62	60084	.03	.3
704 - 63	60085	<.03	.1
704 - 64	60086	.05	<.1
704 - 65	60087	.04	.3
704 - 66	60088	<.03	.1
704 - 67	60089	.03	<.1
704 - 68	60090	.03	.4
704 - 69	60091	.08	.2
704 - 70	60092	.04	.1
704 - 71	60093	.03	.1
704 - 72	60094	<.03	.1
704 - 73	60095	.03	.1
704 - 74	60096	.03	.3
704 - 75	60097	.03	.1
704 - 76	60098	.04	<.1
704 - 77	60099	.04	.1
704 - 78	60100	.03	.1
704 - 79	60101	<.03	.1
704 - 80	60102	.05	.1
704 - 81	60103	<.03	.2
704 - 82	60104	.03	.1
704 - 83	60105	.04	.1
704 - 84	60106	<.03	<.1
704 - 85	60107	<.03	.2
704 - 86	60108	.04	.1
704 - 87	60109	.03	.2
704 - 88	60110	<.03	.3
704 - 89	60111	<.03	.1
704 - 90	60112	<.03	<.1

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December 4, 1987

ETK#	Description	Au (g/t)	Ag (g/t)
704 - 91	60113	.03	.2
704 - 92	60114	.04	.4
704 - 93	60115	.03	.1
704 - 94	60116	.03	<.1
704 - 95	60117	.04	<.1
704 - 96	60118	.09	.1
704 - 97	60119	.07	<.1
704 - 98	60120	.08	.2
704 - 99	60121	.05	.1
704 - 100	60122	.06	.1
704 - 101	60123	.06	.4
704 - 102	60124	.13	.1
704 - 103	60125	.06	<.1
704 - 104	60126	.11	.1
704 - 105	60127	.19	.1
704 - 106	60128	.16	.4
704 - 107	60129	.19	.4
704 - 108	60130	.43	.9
704 - 109	60131	.22	.2
704 - 110	60132	.17	.2
704 - 111	60133	.47	.5
704 - 112	60134 x	.08	.2
704 - 113	60135	.07	.1
704 - 114	60136	.06	.1
704 - 115	60137	.05	.1
704 - 116	60138	.04	.1
704 - 117	60139	.03	.1
704 - 118	60140	.03	.1
704 - 119	60141	.06	.1
704 - 120	60142	<.03	.4
704 - 121	60143	.06	.5
704 - 122	60144	.06	.3
704 - 123	60145	.09	.4
704 - 124	60146	.06	.3
704 - 125	60147	.06	.2

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Granges Exploration

December 4, 1987

<u>ETK#</u>	<u>Description</u>	<u>Au</u> <u>(g/t)</u>	<u>Ag</u> <u>(g/t)</u>
704 - 126	60148	<.03	.1
704 - 127	60149	<.03	.1
704 - 128	60150	<.03	.2
704 - 129	60151	.06	.1
704 - 130	60152	.04	.1
704 - 131	60153	.05	.2
704 - 132	60154	.04	.1
704 - 133	60155	.06	.1
704 - 134	60156	.08	.1
704 - 135	60157	.06	.1
704 - 136	60158	.04	.1
704 - 137	60159	.04	.1

E

NOTE: < = less than

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Sonja Benischek,
B.C. Certified Assayer

SB/jmb

c.c. Granges Exploration
c/o Greyhound
REVELSTOKE, B.C.
Attention: Pat Deveaux
"Hold for Pickup"

Page 5 of 5



GRANGES EXPLORATION LTD.
DIAMOND DRILL RECORD

CORE PAGE 1 OF 3

Property LUCKY MOUNTAIN Project No. 101 Depth 1000 Date Began 10/1/87
 Hole No. 4KY#1 Co. ord. 5525N Horizontal Length Date Completed Oct. 30, 1987
 Claim No. 25418 (MASCOTTE (2)) 5756 E Core Size N.Q. Drilled By KOOTENAY
 Grid No. Angle & Direction -55°W Elevation Logged By G. WRIGHT

INTERVAL FEET (METRES)	NUMBER	WIDTH	Au.	Ag.	Cu.	Zn.	WIDTH X ASSAY					AVERAGES							
												WIDTH	Au.	Ag.	Cu.	Zn.			
0.0 - 7.62	CASING	7.62	0.00	0.0															
7.62 - 39.3	WASTE	31.68	0.00	0.0															
39.3 - 39.6	57742	.30	.07	.5															
39.6 - 40.1	43	.50	.08	.5															
40.1 - 41.76	WASTE	1.66	0.00	0.0															
41.76 - 42.0	44	.24	.06	.4															
42.0 - 42.45	57745	.45	.05	.3															
42.5 - 42.9	46	.4	.05	.3															
42.9 - 43.2	47	.3	.04	.5															
43.2 - 47.85	WASTE	4.65	0.00	0.0															
47.85 - 48.35	48	.50	.08	.6															
48.35 - 48.55	49	.20	.12	.1															
48.55 - 49.05	57850	.50	.14	.9															
49.05 - 49.55	51	.50	.11	1.1															
49.55 - 52.44	WASTE	2.89	0.00	0.0															
52.44 - 52.74	52	.30	.08	1.3															
52.74 - 53.54	53	.80	.11	1.6															
53.54 - 53.94	54	.40	.08	1.1															
53.94 - 56.0	WASTE	2.06	0.00	0.0															
56.0 - 56.3	57855	.30	.08	1.1															
56.3 - 56.5	56	.20	.05	.6															
56.5 - 56.99	57	.49	.07	.8															
56.99 - 57.14	WASTE	.15	0.00	0.0															
57.14 - 57.54	58	.40	.08	1.0															
57.54 - 57.84	59	.30	.06	0.9															
57.84 - 58.34	57860	.50	.07	.8															
58.34 - 62.59	WASTE	4.25	0.00	0.0															
62.59 - 62.89	61	.30	.07	.9															
62.89 - 63.09	62	.20	.06	.7															
63.09 - 63.44	63	.35	.06	.8															
63.44 - 63.84	64	.40	.06	.6															
63.84 - 64.24	57865	.40	.07	.4															
64.24 - 64.54	66	.30	.08	.9															
64.54 - 65.0	67	.46	.06	.8															
65.0 - 65.5	68	.50	.03	.3															
65.5 - 65.75	69	.25	.05	.3															
65.75 - 66.14	57870	.39	.11	.1															
66.14 - 66.64	71	.50	.36	.3															
66.64 - 67.14	72	.50	.04	.2															
67.14 - 67.64	73	.50	.04	.2															

GRANGES EXPLORATION LTD.
DIAMOND DRILL RECORD

CORE PAGE 2 OF 3

Property GRANGES EXPLORATION LTD. Project no. 101 Depth 5525 N Date began Oct 30/87
 Hole No. Lky #2 Co. ord. 5525 N Horizontal Length 5756 E Date Completed Oct 30/87
 Claim No. 5756 E Core Size N.O Drilled By KOOTENAY
 Grid No. 55° W Angle & Direction 55° W Elevation G. WRIGHT Logged By

INTERVAL FEET/METRES	NUMBER	WIDTH	Au.	Ag.	Cu.	Zn.	WIDTH X ASSAY					AVERAGES							
							WIDTH	Au.	Ag.	Cu.	Zn.	WIDTH	Au.	Ag.	Cu.	Zn.			
67.64-68.14	74	.50	.05	.4															
68.14-68.64	57675	.50	.05	.13															
68.64-69.14	76	.50	.03	<.1															
69.14-69.64	77	.50	.05	<.1															
69.64-70.04	78	.40	.04	.1															
70.04-71.0	79	.60	.05	.2															
71.10-71.60	57880	.50	.06	.2															
72.60-72.10	WASTE	.50	0.00	0.0															
72.10-72.60	81	.50	.08	.4															
72.60-73.10	82	.50	.05	.2															
73.10-73.60	83	.50	.04	.13															
73.60-84.49	WASTE	10.83	0.00	0.0															
84.43-84.64	84	.21	.05	.5															
84.64-84.79	57885	.15	.05	.4															
84.79-84.99	86	.20	.05	.3															
84.99-87.48	WASTE	2.49	0.00	0.0															
87.48-87.90	87	.42	.06	.5															
87.90-88.90	88	.50	.07	.6															
88.40-88.90	89	.50	.08	.8															
88.90-89.40	57890	.50	.07	.7															
89.40-89.90	91	.50	.04	.5															
89.90-90.20	92	.30	.07	.9															
90.20-90.30	93	.10	.23	.9															
90.30-90.53	94	.23	.69	1.8															
90.53-91.00	57895	.47	.04	<.1															
91.00-91.50	96	.50	.05	<.1															
91.05-92.35	WASTE	1.30	0.00	0.0															
92.35-92.65	97	.30	.06	.5															
92.65-92.85	98	.20	.05	.4															
92.85-93.15	99	.30	.05	.1															
93.15-93.57	WASTE	.42	0.00	0.0															
93.57-93.87	57900	.30	.06	.4															
93.87-94.27	01	.40	.03	3.4															
94.27-94.67	02	.40	.06	.4															
94.67-95.17	03	.50	.04	.13															
95.17-95.67	04	.50	.10	.7															
95.67-96.07	57905	.40	.08	.5															
96.07-96.47	06	.40	.05	.2															
96.47-96.97	07	.50	.05	.1															
96.97-97.47	08	.50	.06	.2															

GRANGES EXPLORATION LTD.
DIAMOND DRILL RECORD

CORE PAGE 3 OF 3

Property LK4 #1 Project No. 5525N Depth 108.50 Date began Oct. 30, 1987
 Hole No. LK4 #1 Co. ord. 5525N Horizontal Length 5756E Date Completed Oct. 30, 1987
 Claim No. 5756E Core Size N.Q. Drilled By KOOTRANAY
 Grid No. -55W Angle & Direction -55W Elevation Logged By G. WRIGHT

INTERVAL FEET (METRES)	NUMBER	WIDTH	Au.	Ag.	Cu.	Zn.	WIDTH X ASSAY					AVERAGES							
							WIDTH	Au.	Ag.	Cu.	Zn.	WIDTH	Au.	Ag.	Cu.	Zn.			
97.47-97.97	09	.50	.04	.1															
97.97-98.27	57910	.30	.04	.1															
98.27-98.60	11	.33	.05	.3															
98.60-99.10	12	.50	.13	.12															
99.10-99.67	13	.50	.05	.1															
99.67-100.00	14	.33	.04	<.1															
100.00-100.05	57915	.50	.04	<.1															
100.05-100.80	16	.30	.04	<.1															
100.80-101.30	17	.50	.04	<.1															
101.30-101.80	18	.50	.03	<.1															
101.80-102.72	Waste	.92	0.00	0.0															
102.72-103.20	19	.48	.09	.2															
103.20-103.50	57920	.30	.05	.1															
103.50-104.00	21	.50	.03	<.1															
104.00-104.50	22	.50	.04	<.1															
104.50-105.00	23	.50	.03	<.1															
105.00-105.50	24	.50	.05	<.1															
105.50-106.26	57925	.76	.05	.12															
106.06-106.66	26	.60	.13	.3															
106.66-107.00	27	.34	.04	.1															
107.00-107.50	28	.50	.07	<.1															
107.50-108.00	29	.50	.05	.1															
108.00-108.50	57930	.50	.05	.1															
108.50-EDH																			


**GRANGES EXPLORATION LTD.
DIAMOND DRILL LOG**

PAGE 1 of 4

Property: WASLUK DRILLING Project No. 101 Depth 1.44 Date Began 10/21/87
 Hole No. LKY 1 Co ord. 5525N Horizontal Length Date Completed OCT. 31/87
 Claim No. 5756E Core Size NQ Drilled By KOOTENAY
 Grid No. Angle & Direction -35°W Elevation Logged By AL JOHNSON
PETER OSHUST

INTERVAL FEET / METRES	DESCRIPTION	SAMPLE RECORD							
		FROM	TO	WIDTH	SAMPLE	Au.	Ag.	Cu.	Zn.
0 - 7.62 M	CASING								
7.62 - 26.51	DARK GREY CALCAREOUS ARGILLITE GEN BROKEN. Fe CARBONATE WEATHERING 5% SMALL QZ VEINS AND STRINGERS TRACE PYRITE								
26.51 - 65.50	BLACK GRAPHITIC ARGILLITE GENERALLY CONVOLUTED AND DISSMEMBERED LAMINATIONS. HARD TO 44.81 < 5% QZ VEINS AND STRINGERS. TR - 1% PY								
	39.3 - 39.6 GRAPHITIC ARGILLITE AS ABOVE < 5% CONVOLUTED STRINGERS 3% PY F. DISSEM AND F. CONVOLUTED STRINGERS 40% CORE RECOVERY FROM 39.6 TO 41.26								
	42.6 - 42.95 GRAPHITIC ARGILLITE AS ABOVE MINOR SHEAR ZONE 2% PY IN FINE STRINGERS								
	42.0 - 42.9 50% CORE RECOVERY								
	44.81 - 46.8 MINOR SHEAR ZONE 50% CORE RECOVERY								
	47.85 - 49.55 MINOR SHEAR ZONE 50% CORE RECOVERY								
	20% CORE RECOVERY FROM 52.74 TO 53.54								
	50% CORE RECOVERY FROM 54.49 TO 56.0								
	50% CORE RECOVERY FROM 56.15 TO 56.99 MINOR SHEAR ZONE								

GRANGES EXPLORATION LTD.
DIAMOND DRILL LOG

PAGE 2 of 4

Property LUCKY SINK Project No. 101 Depth Date Began
 Hole No. LKY 1 Co ord Horizontal Length Date Completed
 Claim No. Core Size Drilled By
 Grid No. Angle & Direction Elevation Logged By

INTERVAL FEET/METRES	DESCRIPTION	SAMPLE RECORD							
		FROM	TO	WIDTH	SAMPLE	Au.	Ag.	Cu.	Zn.
65.0 - 65.5	GRAY CALCAREOUS ARGILLITE W/ CONTORTED ARENACEOUS BANDS 570% QZ STRINGERS W/ ABUND RUSTY SOLUTION VUGS TR PY								
65.5 - 72.0	GREY CALCAREOUS ARGILLITE W/ GENERALLY CONTORTED ARENACEOUS INTERBANDS AND LAMINATIONS. 5% QZ / CARBONATE STRINGERS AND VEINLETS AND FINE QZ STRINGERS. QZ/CARBONATE VEINLETS AND STRINGERS GENERALLY BROKEN AND CONTORTED, CONTAIN ABUNDANT < 1cm RUSTY SOLUTION VUGS, SERICITE PARTINGS ASSOCIATED W/ ARGILLITE INCLUSIONS. TR - 1% FINE DISSEMINATED PY.								
64.5 - 69.64	MINOR SHEAR ZONE								
70 - 70.6	ARENACEOUS BAND. MOD WELL LAMINATED. WITH CONTORTED QZ STRINGERS.								
70.6 - 73.9	MODERATELY SHEARED.								
72.0 - 90.53	GREY BLACK CALCAREOUS ARGILLITE W/ GENERALLY CONTORTED GREY ARENACEOUS INTERBANDS AND LAMINATIONS. INCREASINGLY HARD AND SILICEOUS THRU BASAL 10M. 3-5% CONVOLUTED AND BROKEN QZ STRINGERS. MODERATELY VEGGY THRU 71.6 - 77.0. TRACE TO 1% F. DISSEM PY.								
80.3 - 81.05	MEDIUM GRAINED ARENACEOUS BAND W/ FINE QZ STRINGERS UP TO 5%. CA OF QZ STRINGER 58°								
83.8	'S' SHAPED QZ STRINGER								
84.69 - 84.79	QZ STRINGER. < 1% SPH. CA QZ 77°								
90.2 - 90.3	DIFFUSE QZ STRINGER. 1% MED GR. PY CA QZ STRINGER 62°								


**GRANGES EXPLORATION LTD.
DIAMOND DRILL LOG**

PAGE 3 of 4

Property LAKY 211111 Project No. 134 Depth Date Began

Hole No. LKY 1 Co ord Horizontal Length Date Completed

Claim No. Core Size Drilled By

Grid No. Angle & Direction Elevation Logged By

INTERVAL FEET (METRES)	DESCRIPTION	SAMPLE RECORD							
		FROM	TO	WIDTH	SAMPLE	Au.	Ag.	Cu.	Zn.
90.53 - 91.37	QZ VEIN TOP .3 M CONTAINS GRAPHITE STRINGERS AND RUSTY FRACTURES. BASAL .54 M BULK WHITE QZ.								
91.37 - 92.68	GREY BLACK CALCAREOUS ARGILLITE MOD WELL LAMINATED AND CONTORTED. AREACEOUS INTERBANDS. 5% QZ AND QZ/CARB STRINGERS. TRACIE PY.								
92.68 - 93.35	LIGHT GREY ARENACEOUS SAND W/ DARK GREY LAMINATIONS.								
93.35 - 93.87	GREY BLACK CALCAREOUS ARGILLITE W/ CONTORTED ARENACEOUS LAMINATIONS AND INTER BANDS TR PY								
93.87 - 94.27	QZ VEIN W/ GRAPHITIC ARGILLITE INCLUSIONS AND STRINGERS. ABUNDANT RUSTY FRACTURES. 3% MED GRAINED PY IN NESTS.								
94.27 - 96.47	GREY CALCAREOUS ARGILLITE W/ GRAPHITIC STRINGERS, ARENACEOUS BANDS AND LAMINATIONS. HARD AND SILICIFIED. 94.27-95.0. 3% QZ STRINGERS 4/cm RUSTY SOLUTION VUGS COMMON.								
96.47 - 99.67	GREEN CALCAREOUS ARGILLITE W/ 10% GREY CALCAREOUS ARGILLITE 5% QZ/CARB STRINGERS, GENERALLY BROKEN AND CONTORTED. W/ 4/cm RUSTY SOLUTION VUGS TR - 1% FINE TO MED DISSEM PY								
99.67 - 101.8	QZ VEIN W/ 3-5% RUSTY SOLUTION VUGS AND FRACTURE SURFACES. MINOR GRAPHITIC PARTINGS, 3% WALL ROCK INCLUSIONS.								
	100.5 - 101.3 50% CORE RECOVERY MINOR SHEAR ZONE								

GRANGES EXPLORATION LTD.
DIAMOND DRILL LOG

PAGE 4 of 4

Property: LUCKY SPUR Project No: 1-1 Depth: Date began: _____
 Hole No: LKY 1 Co ord: Horizontal Length: Date Completed: _____
 Claim No: Core Size: Drilled By: _____
 Grid No: Angle & Direction: Elevation: Logged By: _____

INTERVAL FEET/METRES	DESCRIPTION	SAMPLE RECORD							
		FROM	TO	WIDTH	SAMPLE	Au.	Ag.	Cu.	Zn.
101.8 - 106.6	GREEN CALCAREOUS ARGILLITE 10% GREY CALCAREOUS ARGILLITE INTERBANDS, RADE LAMINATIONS. 5-7% QZ STRINGERS GENERALLY CONTORTED AND BROKEN. ABUNDANT < 1cm RUSTY UGS.								
	101.3 - 103.45 SHEAR ZONE								
	103.5 QZ STRINGER MOTTLED RUSTY AND GREY CA 25°								
106.6 - 108.5	GREY CALCAREOUS ARGILLITE W/ GRAPHITIC AND ARENACEOUS INTERBANDS, MOD WELL LAMINATED GEN CONTORTED < 5% QZ STRINGERS. GENERALLY HARD, SILICIFIED. TRACE PY.								
	106.9 - 107.0 QZ STRINGER W/ ABUND < 1cm RUSTY UGS. CA 60°								
	108.2 - 108.27 QZ STRINGER BROKEN, DIFFUSE, RUSTY. MINOR 1-2 mm UGS. CA 65°								
EOH 108.5 m	CASING PULLED, HOLE CEMENTED ACID 53°30' @ 108.5m <u>CORE ANGLES</u>								
	11.28 m 62° FOL 78.00 82° FOL								
	17.37 80° " 81.00 CONTORTED								
	23.46 60° " 83.00 CONTORTED								
	26.51 86° " 85.00 65° "								
	29.51 78° " 88.00 59° "								
	32.61 78° " 91.50 65° "								
	38.70 72° " 93.00 46° "								
	63.84 50° " 96.00 CONTORTED								
	67.80 45° " 99.10 95° "								
	70.00 70° " 101.80 47° "								
	72.00 CONTORTED " 105.0 60° "								
	75.00 CONTORTED " 108.5 55° "								


**GRANGES EXPLORATION LTD.
DIAMOND DRILL RECORD**

CORE PAGE 1 OF 2

Property ALBERTA DIAMOND Project No. 1001 Depth 65.59 Date began NOV 3/87
 Hole No. LKY #2 Co. ord. 5599 N Horizontal Length Date Completed NOV 3/87
 Claim No. L 5418 (MASCOTTE Fe) 5733 E Core Size N.O. Drilled By KOOTRWAY
 Grid No. Angle & Direction 55°W Elevation Logged By G. WRIGHT

INTERVAL FEET (METRES)	NUMBER	WIDTH	Au.	Ag.	Cu.	Zn.	WIDTH X ASSAY						AVERAGES							
							WIDTH	Au.	Ag.	Cu.	Zn.	WIDTH	Au.	Ag.	Cu.	Zn.				
0-4.21	CASING	4.21	0.00	0.0																
4.21-38.40	WASTE	34.19	0.00	0.0																
38.40-38.75	31	.35	.07	.14																
38.75-39.25	32	.50	.08	.14																
39.25-39.75	33	.50	.08	.13																
39.75-40.25	34	.50	.07	.13																
40.25-40.75	57935	.50	.07	.13																
40.75-45.80	WASTE	5.05	0.00	0.0																
45.80-46.20	36	.40	.06	.12																
46.20-46.40	37	.20	.11	.13																
46.40-46.70	38	.30	.06	.12																
46.70-47.20	39	.50	.06	.12																
47.20-47.50	57970	.30	.06	.12																
47.50-48.65	WASTE	1.15	0.00	0.0																
48.65-49.05	41	.40	.09	.12																
49.05-49.45	42	.40	.10	.11																
49.45-49.95	43	.50	.09	.12																
49.95-50.25	44	.30	.10	.12																
50.25-50.60	57945	.35	.08	.12																
50.60-51.10	WASTE	.50	0.00	0.0																
51.10-51.60	46	.50	.09	.12																
51.60-52.00	47	.40	.10	.12																
52.00-52.40	48	.40	.08	.13																
52.40-53.20	WASTE	.80	0.00	0.0																
53.20-53.64	57972	.44	.06	.12																
53.64-53.99	73	.30	.06	.11																
53.99-54.24	74	.30	.07	.12																
54.24-54.54	57975	.30	.05	.12																
54.54-54.94	57949	.40	.08	.12																
54.94-55.24	57950	.30	.09	.12																
55.24-57.20	WASTE	1.96	0.00	0.0																
57.20-57.70	51	.50	.09	.12																
57.70-58.00	52	.30	.11	.11																
58.00-58.80	WASTE	.80	0.00	0.0																
58.80-59.00	53	.20	.08	.12																
59.00-59.49	54	.49	.08	.11																
59.49-59.70	57955	.31	.08	.11																
59.70-65.54	WASTE	5.84	0.00	0.0																
65.54-65.84	56	.30	.13	.13																
65.84-66.34	57	.50	.09	.14																

GRANGES EXPLORATION LTD.
DIAMOND DRILL RECORD

CORE PAGE 2 OF 2

Property W. KY. #2 Project No. 5599N Depth 7022 Date Began Oct 20/87
 Hole No. LKY #2 Co. ord. 5599N Horizontal Length 5733E Date Completed Nov. 3/87
 Claim No. 5733E Core Size 5/8" Drilled By R. POTENAY
 Grid No. 55°W Angle & Direction 55°W Elevation 5733E Logged By G. WRIGHT

INTERVAL FEET (METRES)	NUMBER	WIDTH	Au.	Ag.	Cu.	Zn.	WIDTH X ASSAY					AVERAGES							
							WIDTH	Au.	Ag.	Cu.	Zn.	WIDTH	Au.	Ag.	Cu.	Zn.			
66.37-66.87	58	.50	.07	.2															
66.87-68.38	WASTE	1.51	0.00	0.0															
68.38-68.88	59	.50	.07	.2															
68.88-69.38	57960	.50	.10	.3															
69.38-69.88	61	.50	.08	.3															
69.88-78.02	WASTE	8.14	0.00	0.0															
78.02-78.52	62	.50	.08	.4															
78.52-79.02	63	.50	.06	.1															
79.02-79.32	64	.30	.06	.4															
79.32-80.02	57965	.70	.07	<.1															
80.02-83.82	WASTE	3.80	0.00	0.0															
83.82-84.12	66	.30	.06	.2															
84.12-84.37	67	.25	.19	<.1															
84.37-84.87	68	.50	.05	<.1															
84.87-87.37	WASTE	2.50	0.00	0.0															
87.37-87.67	69	.30	.06	<.1															
87.67-88.17	57970	.50	.05	<.1															
88.17-88.47	71	.30	.07	.2															
88.47-90.22	WASTE	1.75	0.0	0.0															
90.22	EDH																		


**GRANGES EXPLORATION LTD.
DIAMOND DRILL LOG**

Page 1 of 3

 Property LUCKY STRIKE Project No. 151 Depth 1250 M Date Began 11/01/87
 Hole No. LKY 2 Co ord. 5599 N Horizontal Length 5733 E Date Completed NOV. 3/87
 Claim No. 5733 E Core Size Ng Drilled By KOOTENAY
 Grid No. Angle & Direction -55°W Elevation 1250 M Logged By PETER OSHUST

INTERVAL FEET/METRES	DESCRIPTION	SAMPLE RECORD							
		FROM	TO	WIDTH	SAMPLE	Au.	Ag.	Cu.	Zn.
0 - 4.57	CASING								
4.57 - 4.88	GREY CALCAREOUS ARGILLITE LEACHED AND PHYLLITIC IN APPEARANCE. 30% QZ STRINGERS WITH ABUNDANT RUSTY SOLUTION VUGS AND RUSTY FRACTURE SURFACES, AND WALL ROCK INCLUSIONS.								
4.88 - 34.75	BLACK GRAPHITIC ARGILLITE GENERALLY SHEARED, CONTORTED. GENERALLY RUBBLY. 3-5% QZ/ CARBONATE STRINGERS AND VEINLETS WITH COMMON <1cm RUSTY VUGS AND FRACTURE SURFACES. STRINGERS AND VEINLETS GENERALLY DIFFUSE. TRACE TO 1% FINE DISSAM PY. 40% CORE RECOVERY.								
	17.07 - 17.37 DARK GREY CALCAREOUS ARGILLITE WITH DIFFUSE QZ/CARB STRINGERS.								
34.75 - 90.22	GREY CALCAREOUS ARGILLITE MOD WELL LAMINATED TO CONTORTED WITH 5-10% GRAPHITIC ARGILLITE INTERBANDS, 10% LIGHT GREY ARENACEOUS? INTERBANDS UP TO 1m. 5% GREEN CALCAREOUS ARGILLITE BANDS UP TO >1m. UP TO 15% QZ/CARB VEINS AND STRINGERS, VEINS AND STRINGERS UP TO 30cm, GENERALLY DIFFUSE WITH ABUNDANT ARGILLITE INCLUSIONS. RUSTY VUGS AND SURFACES COMMON. GENERALLY RUBBLY, BROKEN AND LEACHED IN APPEARANCE. TRACE TO 1% PY. TRACE TET.								
	38.6 - 43.3 UP TO 40% GRAPHITIC ARGILLITE INTERBANDS 30% DIFFUSE QZ/CARB VEINS AND STRINGS. GENERALLY CONTORTED WITH SOME EVIDENCE OF DRAG FOLDING. AVG. CA QZ STRINGS. 60% TRACE PY.								
	44.5 - 46.0 MINOR SHEAR								
	46.0 - 47.5 30% DIFFUSE QZ/CARB STRINGERS AND VEINLETS WITH MINOR <1cm RUSTY SOLUTION VUGS. COMMON RUSTY SURFACES. GENERALLY CONTORTED. TRACE PY, TET.								
	48.0 - 48.3 MINOR SHEAR.								


**GRANGES EXPLORATION LTD.
DIAMOND DRILL LOG**

Page 2 of 3

 Property LUCKY STRIKE Project No. 121 Depth Date Began
 Hole No. LKY 2 Coord. Horizontal Length Date Completed
 Claim No. Core Size Drilled By
 Grid No. Angle & Direction Elevation Logged By

INTERVAL FEET/METRES	DESCRIPTION	SAMPLE RECORD							
		FROM	TO	WIDTH	SAMPLE	Au.	Ag.	Cu.	Zn.
48.65 - 59.5	20% DIFFUSE AND CONTORTED QZ/CARB VEINS AND STRINGERS. CARBONATE IS GENERALLY RUSTY. 2cm RUSTY SOLUTION VUGS COMMON. BETWEEN 56.6 - 59.5 GRAPHITIC ARGILLITE AND GREY ARGILLITE INCLUSIONS COMMON. TRACE PY, TET.								
65.84 - 69.38	20% DIFFUSE AND CONTORTED QZ/CARB VEINS AND STRINGERS. RUSTY SOLUTION VUGS COMMON. WALL ROCK INCLUSIONS COMMON. 65% CORE RECOVERY 65.83 - 68.88								
69.38 - 69.88	RUBBLY SHEAR ZONE								
69.88 - 72.15	WEAKLY SHEARED AND BRECCIATED								
77.8 - 78.55	WEAKLY SHEARED AND BRECCIATED								
78.55 - 80.45	RUBBLY SHEAR ZONE								
84.12 - 84.37	BULL WHITE QZ WITH 1% MED GR PY.								
84.37 - 84.9	20% DIFFUSE QZ STRINGERS WITH MINOR RUSTY VUGS								
84.9 - 87.67	70% GREEN CALCAREOUS ARGILLITE WITH GRAY ARGILLITE INTERBANDS. 5-10% QZ STRINGERS. COMMON RUSTY SURFACES. GENERALLY CONTORTED								
87.67 - 88.17	20% DIFFUSE QZ STRINGERS								
EOH 90.22 m	ACID 54° 45' @ 88.39 m CASING PULLED								

GRANGES EXPLORATION LTD.
DIAMOND DRILL LOG

Page 3 of 3

Property LUCKY STRIKE Project No. 131 Depth Date Began

Hole No. LKY 2 Coord. Horizontal Length Date Completed

Claim No. Core Size Drilled By

Grid No. Angle & Direction Elevation Logged By

INTERVAL FEET/METRES	DESCRIPTION	SAMPLE RECORD								
		FROM	TO	WIDTH	SAMPLE	Au.	Ag.	Cu.	Zn.	
	<u>CORE ANGLES</u>									
	MEASURED ON FOLIATION									
4.88	RUBBLE	38.90	62°							
7.92	68°	41.95	57°							
10.97	RUBBLE	44.50	COMTORTED							
14.02	64°	47.57	COMTORTED							
17.07	RUBBLE	50.59	55°							
20.12	RUBBLE	53.64	COMTORTED							
23.16	60°	56.69	50°							
26.21	RUBBLE	59.74	62°							
29.26	RUBBLE	62.79	65°							
32.30	50°									
35.35	64°									

GRANGES EXPLORATION LTD.
DIAMOND DRILL RECORD

Property LUCKY DIKINE Project No. 101 Depth 17.42 Date Began 5/1/87
 Hole No. LKY#3 Co ord. 5599N Horizontal Length _____ Date Completed Nov. 5/87
 Claim No. L5418 (MASCOTTE FR.) 5733E Core Size N.O. Drilled By KOOTENAY
 Grid No. _____ Angle & Direction -75°W Elevation _____ Logged By G. WRIGHT

CORE PAGE 1 OF 3

INTERVAL FEET/METRES	NUMBER	WIDTH	Au.	Ag.	Cu.	Zn.	WIDTH X ASSAY					AVERAGES								
							WIDTH	Au.	Ag.	Cu.	Zn.	WIDTH	Au.	Ag.	Cu.	Zn.				
0-3.05	CASING	3.05	0.00	0.0																
3.05-4.88	60036	1.83	.06	13																
4.88-7.92	37	3.04	10	13																
7.92-10.97	38	3.05	107	12																
10.97-14.02	39	3.05	103	13																
14.02-17.06	60040	3.04	103	13																
17.06-20.11	41	3.05	104	13																
20.11-23.16	42	3.05	103	12																
23.16-26.21	43	3.05	103	13																
26.21-29.26	44	3.05	103	13																
29.26-32.50	60045	3.24	107	5																
32.50-35.36	46	2.86	05	18																
35.36-38.40	47	3.04	104	16																
38.40-41.45	48	3.05	108	15																
41.45-44.00	49	2.55	104	17																
44.00-44.85	WASTE	.85	0.00	0.0																
44.85-45.10	57976	2.5	105	12																
45.10-45.40	77	.30	103	12																
45.40-45.70	78	.30	104	12																
45.70-46.80	WASTE	1.10	0.00	0.0																
46.80-47.10	79	.30	107	12																
47.10-47.60	57980	.50	107	13																
47.60-48.00	81	.40	108	13																
48.00-48.50	82	.50	105	12																
48.50-48.70	83	.20	103	12																
48.70-49.00	84	.30	108	12																
49.00-49.30	57985	.30	111	13																
49.30-49.80	86	.50	110	13																
49.80-50.10	87	.30	111	12																
50.10-50.40	88	.30	109	12																
50.40-50.50	89	.10	107	14																
50.50-51.00	57990	.50	111	13																
51.00-51.40	91	.40	109	12																
51.40-51.70	92	.30	111	12																
51.70-52.00	93	.30	125	12																
52.00-53.60	WASTE	1.60	0.00	0.0																
53.60-54.10	94	.50	113	13																
54.10-54.60	57995	.50	111	12																
54.60-55.10	96	.50	113	11																
55.10-55.30	97	.20	114	12																


**GRANGES EXPLORATION LTD.
DIAMOND DRILL RECORD**

CORE PAGE 2 OF 3

Property GRANGES EXPLORATION LTD. Project No. 1001 Depth 1000.00 Date Began NOV 5 1987
 Hole No. LKY#3 Coord. 5599 N Horizontal Length Date Completed NOV 5 1987
 Claim No. 5733E Core Size NQ Drilled By KOOTENAY
 Grid No. Angle & Direction -75°W Elevation Logged By G. WRIGHT

INTERVAL FEET/METRES	NUMBER	WIDTH	Au.	Ag.	Cu.	Zn.	WIDTH X ASSAY						AVERAGES							
							WIDTH	Au.	Ag.	Cu.	Zn.									
55.30-55.80	WASTE	.50	0.00	0.0																
55.80-56.30	98	.50	.14	.12																
56.30-56.70	99	.40	.16	.1																
56.70-57.10	60000	.40	.12	.1																
57.10-57.50	01	.40	.13	<.1																
57.50-58.00	02	.50	.14	<.1																
58.00-58.50	03	.50	.108	.2																
58.50-59.00	04	.50	.10	<.1																
59.00-59.50	60005	.50	.12	<.1																
59.50-60.00	06	.50	.11	<.1																
60.00-60.50	07	.50	.11	<.1																
60.50-60.90	08	.40	.110	.2																
60.90-62.10	WASTE	.20	0.00	0.0																
62.10-62.50	09	.40	.10	<.1																
62.50-62.80	60010	.30	.11	<.1																
62.80-63.30	11	.50	.110	.1																
63.30-63.80	12	.50	.11	.2																
63.80-64.10	13	.30	.09	.2																
64.10-65.00	WASTE	.90	0.00	0.0																
65.00-65.40	14	.40	.10	.3																
65.40-67.80	WASTE	2.40	0.00	0.0																
67.80-68.00	60015	.20	.09	.1																
68.00-68.20	16	.20	.105	.2																
68.20-68.40	17	.20	.07	.1																
68.40-68.60	18	.20	.08	.1																
68.60-68.90	19	.30	.09	.5																
68.90-69.10	60020	.20	.07	.5																
69.10-69.40	21	.30	.09	.6																
69.40-69.80	22	.40	.06	.1																
69.80-70.20	23	.40	.106	.1																
70.20-70.60	24	.40	.105	<.1																
70.60-71.00	60025	.40	.05	.1																
71.00-71.40	26	.40	.106	<.1																
71.40-71.80	27	.40	.04	<.1																
71.80-73.50	WASTE	1.70	0.00	0.0																
73.50-73.80	28	.30	.03	<.1																
73.80-74.10	29	.30	.04	.1																
74.10-74.40	60030	.30	.04	<.1																
74.40-76.00	WASTE	1.60	0.00	0.0																
76.00-76.50	60031	.50	.05	<.1																

GRANGES EXPLORATION LTD.
DIAMOND DRILL RECORD

CORE PAGE 3 OF 3

Property Granges Exploration Ltd Project No. 1001 Depth 150 Date Began 11/1/87
Hole No. LK4 #3 Co ord. 5599N Horizontal Length Date Completed Nov. 5/87
Claim No. 5733E Core Size N.Q. Drilled By KOOTENAY
Grid No. Angle & Direction -75°W Elevation Logged By G. WRIGHT

INTERVAL FEET/METRES	NUMBER	WIDTH	Au.	Ag.	Cu.	Zn.	WIDTH X ASSAY					AVERAGES				
76.50-77.00	32	.50	.04	<.												
77.00-77.50	33	.50	.02	<.												
77.50-78.00	34	.50	.03	<.												
78.00-78.40	60035	.40	.02	<.												
78.40-78.80	65016	.40	.02	<.												
78.80-E.O.H.																


**GRANGES EXPLORATION LTD.
DIAMOND DRILL LOG**

Page 1 of 2

Property: Kootenay Exploration Project No. 1000000000
 Hole No. LKY 3 Co. ord. 5599 N
 Claim No. L5418 (MASCOTTE FR) 5733 E
 Grid No. Angle & Direction -75°W
 Depth: 79.05 m Horizontal Length: 0 m
 Date began: Date Completed: NOV. 6
 Core Size: Nq Drilled By: KOOTENAY
 Elevation: Logged By: PETER OSHUST

INTERVAL FEET (METRES)	DESCRIPTION	SAMPLE RECORD							
		FROM	TO	WIDTH	SAMPLE	Au.	Ag.	Cu.	Zn.
0 - 3.05 m	CASING								
3.05 - 44.0	BLACK GRAPHITIC ARGILLITE STRONGLY SHEARED. 25% CORE RECOVERY OVER INTERVAL - RUBBLE AND SLUDGE WITH 1-2% QZ PEBBLES								
	3.05 - 3.35 GREY CALCAREOUS ARGILLITE RUBBLE -								
	4.75 RUSTY QZ/CARB RUBBLE								
44.0 - 47.6	BLACK GRAPHITIC ARGILLITE 30% DARK GREY AND GREY ARGILLITE LAMINAE AND INTERBANDS - 2-3% F. QZ STRINGERS, 1-2% F. DISSEM PY.								
	45.1 - 45.4 DIFFUSE QZ VEINLET 5-10% MED GR CARB ALONG SELVAGES, UP TO 40% WALL ROCK INCL- USIONS. COMMONLY VUGGY. TRACE PY. CA 70°								
	47.1 - 47.5 DIFFUSE QZ VEINLET 5-10% MED GR CARB ALONG SELVAGES. ≤ 40% WALL ROCK INCLUSIONS. COMMONLY VUGGY. TRACE PY. CONTORTED.								
47.6 - 79.05	CALCAREOUS GREY ARGILLITE WITH INTERBANDS OF GRAPHITIC ARGILLITE AND DARK GREY ARGILLITE. ≤ 5% GRN ARGILLITE INTERBANDS. GENERALLY MODERATELY WELL LAMINATED COMMONLY CONTORTED TRACE TO 1% FINE DISSEM PY. 5-10% DIFFUSE QZ STRINGERS AND VEINS WITH ≤ 5% CREAM CARB SELVAGES. ≤ 10% RUSTY SOLUTION VUGS < 1cm SIZE. RUSTY FRALS. TRACE - 1% PY.								
	57.1 - 59.5 BRECCIATED AND SHEAR ZONE. RUSTY AND LEACHED APPEARANCE. 30-40% VUGGY QZ. TRACE PY.								
	62.1 - 63.5 SHEAR ZONE 10-15% QZ. TRACE PY.								
	63.65 - 66.4 ≤ 70% BLACK GRAPHITIC ARGILLITE. ≤ 3% QZ TRACE PY.								
	68.6 - 69.45 ≤ 90% BLACK GRAPHITIC ARGILLITE. QZ STRINGER AT 69.0 m CA 67°.								

GRANGES EXPLORATION LTD.
DIAMOND DRILL LOG

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Property LUCKY 3 Project No. 101 Depth Date began
 Hole No. LKY 3 Co ord. Horizontal Length Date Completed
 Claim No. Core Size Drilled By
 Grid No. Angle & Direction Elevation Logged By

INTERVAL FEET/METRES	DESCRIPTION	SAMPLE RECORD							
		FROM	TO	WIDTH	SAMPLE	Au.	Ag.	Cu.	Zn.
69.7 - 71.0	± 40% GREEN ARGILLITE INTERBANDS. Q2 STRINGER AT 70.8M CA 23°								
73.0 - 74.4	± 30% GREEN ARGILLITE INTERBANDS. MILDLY RUSTY. 20% Q2 STRINGERS, GENERALLY DIFFUSE, WEGGY. TRACE PY.								
76.2 - 78.0	± 20% GREEN ARGILLITE INTERBANDS. ± 40% Q2 VEINS AND STRINGERS. IRREGULAR FRES, MILDLY RUSTY. INTERVAL IS SILICEOUS IN APPEARANCE.								
76.5 - 77.0	MINOR SHEAR								
EDH 71.05	HOLE ABANDONED. CASING PULLED. NO CEMENT								
	ACID 75° @ 74.98M								
	CORE ANGLES ON FOLIATION								
3.05 m	90°	29.26	GOUGE	53.69	39°				
4.88	87°	32.30	GOUGE	56.69	18°				
7.92	RUBBLE	35.36	GOUGE	59.74	CONSTRICTED				
10.97	80°	38.4	85°	65.83	10°				
14.02	05°	41.45	90°	68.88	37°				
17.06	0°	45.50	80°	71.93	38°				
20.11	85°	47.55	53°	74.98	35°				
23.16	90°	50.59	28°	78.03	35°				
26.21	85°								


**GRANGES EXPLORATION LTD.
DIAMOND DRILL LOG**

P 1 OF 1

Property LUCY'S CLAIM Project No. 121 Depth ABANDONED Date Begun WED NOV 11/87
 Hole No. HKY 4 Co. ord. 5525N Horizontal Length _____ Date Completed WED NOV 11/87
 Claim No. L 4761 5756E Core Size NQ Drilled By KOOTENAY
 Grid No. _____ Angle & Direction -75°W Elevation 1249.7 m Logged By R. KLIPPENSTEW

INTERVAL - FEET / METRES	DESCRIPTION	SAMPLE RECORD							
		FROM	TO	WIDTH	SAMPLE	Au.	Ag.	Cu.	Zn.
0 - 5.18	CASING								
5.18 - 18.90	GREY CALCAREOUS ARGILLITE - DARK GREY - EXTREMELY BROKEN AND BLOCKY ; 30-90% CORE LOSS THROUGHOUT. - SOLUTION VUGS WITHIN THE QUARTZ-CARBONATE VEINS, STRINGERS, AND WALL ROCK. - < 5% BRECCIATED QUARTZ-CARBONATE VEINS AND STRINGERS; 2mm-2cm WIDE; STRINGERS CROSS CUT FOLIATION; NON-MINERALIZED.								
18.90 - 44.81 E.O.H.	BLACK GRAPHITIC ARGILLITE. - BROKEN AND BLOCKY THROUGHOUT ; 30-90% CORE LOSS. - SOLUTION VUGS ALONG QUARTZ-CARBONATE VEIN SELVAGES AND WITHIN THE GRAPHITIC ARGILLITE. - < 5% QUARTZ-CARBONATE VEINS AND STRINGERS ; 2mm-2cm; BRECCIATED INTERVALS. NON-MINERALIZED. - Tr-3% Py f.g STRINGERS 1-2mm WIDE WITHIN THE GRAPHITIC ARGILLITE.								
	CORE ANGLES: 5.18m → 68° SW 11.27m → 69° " " 17.50m → 44° " " 31.30m → 58° " " 32.60m → 58° " "								
	NOTE: HOLE ABANDONED AT 44.81 m CASING PULLED NO CEMENT.								

GRANGES EXPLORATION LTD.
DIAMOND DRILL RECORD

CORE PAGE 1 OF 1

Property LUCKY WIND Project No. 101 Depth 76.06 Date Began 10/10/87
 Hole No. LKY #4 Co ord. 5525 N Horizontal Length _____ Date Completed Nov. 11/87
 Claim No. _____ 5756 E Core Size N.O. Drilled By KOOTENAY
 Grid No. _____ Angle & Direction -75°W Elevation _____ Logged By G. WRIGHT

INTERVAL FEET/METRES	NUMBER	WIDTH	Au.	Ag.	Cu.	Zn.	WIDTH X ASSAY					AVERAGES								
							WIDTH	Au.	Ag.	Cu.	Zn.	WIDTH	Au.	Ag.	Cu.	Zn.				
0 - 5.18	CASING	5.18	0.00	0.0																
5.18 - 14.32	WASTE	9.14	0.00	0.0																
14.32 - 14.80	60050	.48	.05	.1																
14.80 - 15.30	51	.50	.04	.1																
15.30 - 15.80	52	.50	.04	.1																
15.80 - 16.30	53	.50	.05	.1																
16.30 - 17.10	54	.80	.08	.1																
17.10 - 19.90	WASTE	2.80	0.00	0																
19.90 - 20.42	60055	.52	.05	.1																
20.42 - 20.90	56	.48	<.03	<.1																
20.90 - 21.50	57	.60	<.03	<.1																
21.50 - 26.51	WASTE	5.01	0.00	0.0																
26.51 - 28.04	58	1.53	<.03	<.1																
28.04 - 29.56	59	1.52	<.03	<.1																
29.56 - 30.20	60060	.64	.06	.1																
30.20 - 30.85	61	.65	.03	.1																
30.85 - 42.06	WASTE	11.21	0.00	0.0																
42.06 - E.O.H.																				

GRANGES EXPLORATION LTD.
DIAMOND DRILL RECORD

CORE PAGE 1 OF 5

Property LUCKY STRIKE Project No. 131 Depth 139.60 Date Began Nov. 16/87
 Hole No. LKY #5 Co. ord. 6557N Horizontal Length Date Completed Nov. 21/87
 Claim No. 5607E Core Size N.O. Drilled By KOOTENAY
 Grid No. Angle & Direction -60°W Elevation 875.00 Logged By G. WRIGHT

INTERVAL FEET (METRES)	NUMBER	WIDTH	Au g/t	Ag g/t	Au %	Ag %	WIDTH X ASSAY					AVERAGES							
							WIDTH	Au.	Ag.	Cu.	Zn.	WIDTH	Au.	Ag.	Cu.	Zn.			
0 - 7.00	WASTE	7.00	0.00	0.0	0.00	0.0													
7.00 - 7.30	60602	.30	.05	.2	.06	.1													
7.30 - 7.60	63	.30	.12	.5	.04	<.1													
7.60 - 7.90	64	.30	.20	.13	.05	.1													
7.90 - 11.90	WASTE	4.00	0.00	0.00	0.00	0.0													
11.90 - 12.20	60065	.30	.09	.14	.06	<.1													
12.20 - 12.50	66	.30	.41	1.9	.06	<.1													
12.50 - 12.80	67	.30	.12	.6	.07	.1													
12.80 - 13.00	68	.20	.14	.5	.05	<.1													
13.00 - 13.20	69	.20	.14	.6	.06	<.1													
13.20 - 13.50	60070	.30	.11	.4	.05	<.1													
13.50 - 14.00	71	.50	.15	.5	.07	<.1													
14.00 - 17.20	WASTE	3.20	0.00	0.00	0.00	0.0													
17.20 - 17.40	72	.20	.23	1.0	.04	<.1													
17.40 - 17.60	73	.20	.18	.7	.04	<.1													
17.60 - 17.80	74	.20	.32	.9	.07	<.1													
17.80 - 20.00	WASTE	2.20	0.00	0.00	0.00	0.0													
20.00 - 20.20	60075	.20	.41	.18	.11	<.1													
20.20 - 20.40	76	.20	.56	.16	.05	<.1													
20.40 - 20.60	77	.20	.13	.5	.06	<.1													
20.60 - 23.00	WASTE	2.40	0.00	0.00	0.00	0.0													
23.00 - 23.30	78	.30	.15	.5	.05	<.1													
23.30 - 23.50	79	.20	.10	.18	.06	<.1													
23.50 - 23.70	60080	.20	.12	.4	.04	<.1													
23.70 - 24.60	WASTE	.90	0.00	0.00	0.00	0.0													
24.60 - 24.80	81	.20	.26	.7	<.03	<.1													
24.80 - 25.00	82	.20	.13	<.1	.03	.1													
25.00 - 29.10	WASTE	4.10	0.00	0.00	0.00	0.0													
29.10 - 29.30	83	.20	.33	.3	.04	.4													
29.30 - 29.70	84	.40	.14	.13	.03	.3													
29.70 - 29.90	60085	.20	.53	.7	<.03	.1													
29.90 - 35.60	WASTE	5.70	0.00	0.00	0.00	0.0													
35.60 - 35.90	86	.30	.10	.1	.05	<.1													
35.90 - 36.30	87	.40	.13	.4	.04	.3													
36.30 - 36.60	88	.30	.12	.6	<.03	.1													
36.60 - 36.90	89	.30	.11	.6	<.03	<.1													
36.90 - 42.00	WASTE	5.10	0.00	0.00	0.00	0.0													
42.00 - 42.30	60090	.30			<.03	.14													
42.30 - 42.45	91	.15			.08	.2													
42.45 - 42.65	92	.20			.04	.1													



GRANGES EXPLORATION LTD.
DIAMOND DRILL RECORD

CORE PAGE 2 OF 5

Property Lucky Strike Project No. 151 Depth Date Began
 Hole No. LKY#5 Co ord Horizontal Length Date Completed
 Claim No. Core Size Drilled By KOOTENAY
 Grid No. Angle & Direction Elevation Logged By G. WRIGHT

INTERVAL FEET/METRES	NUMBER	WIDTH	Au.	Ag.	Cu.	Zn.	WIDTH X ASSAY					AVERAGES								
							WIDTH	Au.	Ag.	Cu.	Zn.	WIDTH	Au.	Ag.	Cu.	Zn.				
42.65-48.00	WASTE	7.35	0.00	0.00																
48.00-48.20	93	.20	.03	.1																
48.20-48.40	94	.20	<.03	.1																
48.40-48.60	60095	.20	.03	.1																
48.60-50.50	WASTE	1.90	0.00	0.00																
50.50-50.80	96	.30	.03	.3																
50.80-51.10	97	.30	.03	.1																
51.10-51.30	98	.20	.04	<.1																
51.30-51.50	99	.20	.04	.1																
51.50-51.80	60100	.30	.03	.1																
51.80-58.40	WASTE	6.60	0.00	0.00																
58.40-58.60	01	.20	<.03	.1																
58.60-58.90	02	.30	.05	.1																
58.90-59.10	03	.20	<.03	.2																
59.10-59.30	04	.20	.03	.1																
59.30-59.70	60105	.40	.04	.1																
59.70-63.20	WASTE	3.50	0.00	0.00																
63.20-63.40	06	.20	<.03	<.1																
63.40-63.60	07	.20	<.03	.2																
63.60-63.80	08	.20	.04	.1																
63.80-64.30	09	.50	.03	.2																
64.30-64.80	60110	.50	<.03	.3																
64.80-65.20	11	.40	<.03	.1																
65.20-65.40	12	.20	<.03	<.1																
65.40-65.80	13	.40	.03	.2																
65.80-66.20	14	.40	.04	.4																
66.20-67.10	WASTE	.90	0.00	0.00																
67.10-67.30	60115	.20	.03	.1																
67.30-67.50	16	.20	.03	<.1																
67.50-67.70	17	.20	.04	<.1																
67.70-68.10	WASTE	.40	0.00	0.0																
68.10-68.30	18	.20	.09	.1																
68.30-68.60	19	.30	.07	<.1																
68.60-68.90	60120	.30	.08	.2																
68.90-69.20	21	.30	.05	.1																
69.20-71.70	WASTE	2.50	0.00	0.00																
71.70-72.00	22	.30	.06	.1																
72.00-72.50	23	.50	.06	.4																
72.50-72.80	24	.30	.13	.1																
72.80-73.10	60125	.30	.06	<.1																

GRANGES EXPLORATION LTD.
DIAMOND DRILL RECORD

CORE PAGE 3 OF 5

Property LUCKY STRIKE Project No. 151 Depth Date Began
 Hole No. LKY #5 Co ord. Horizontal Length Date Completed
 Claim No. Core Size Drilled By KOOTENAY
 Grid No. Angle & Direction Elevation Logged By G. WRIGHT

INTERVAL FEET/METRES	NUMBER	WIDTH	Au.	Ag.	Cu.	Zn.	WIDTH X ASSAY						AVERAGES							
													WIDTH	Au.	Ag.	Cu.	Zn.			
73.10-81.10	WASTE	8.00	0.00	0.00																
81.10-81.50	26	.40	.11	.11																
81.50-81.90	27	.40	.19	.11																
81.90-87.10	WASTE	5.20	0.00	0.00																
87.10-87.50	28	.40	.16	.14																
87.50-87.80	29	.30	.19	.14																
87.80-88.10	60130	.30	.43	.14																
88.10-88.50	31	.40	.22	.12																
88.50-88.90	32	.40	.17	.12																
88.90-89.20	33	.30	.47	.15																
89.20-98.70	WASTE	9.50	0.00	0.00																
98.70-99.00	35	.30	.07	.1																
99.00-99.40	36	.40	.06	.1																
99.40-99.70	37	.30	.05	.1																
99.70-100.00	38	.30	.04	.1																
100.00-100.30	39	.30	.03	.1																
100.30-100.60	60140	.30	.03	.1																
100.60-101.70	WASTE	1.10	0.00	0.00																
101.70-102.00	41	.30	.06	.1																
102.00-102.30	42	.30	<.03	.4																
102.30-102.60	43	.30	.06	.5																
102.60-106.10	WASTE	3.40	0.00	0.00																
106.10-106.40	44	.30	.06	.3																
106.40-106.70	60145	.30	.09	.4																
106.70-107.20	46	.50	.06	.3																
107.20-107.50	47	.30	.06	.2																
107.50-113.60	WASTE	6.10	0.00	0.00																
113.60-113.90	48	.30	<.03	.1																
113.90-114.15	49	.25	<.03	.1																
114.15-114.30	60150	.15	<.03	.2																
114.30-114.60	51	.30	.06	.1																
114.60-114.90	52	.30	.04	.1																
114.90-115.20	53	.30	.05	.2																
115.20-116.00	WASTE	.80	0.00	0.00																
116.00-116.30	54	.30	.04	.1																
116.30-116.70	60155	.40	.06	.1																
116.70-117.00	56	.30	.08	.1																
117.00-117.30	57	.30	.06	.1																
117.30-117.80	58	.50	.04	.1																
117.80-118.10	59	.30	.04	.1																


**GRANGES EXPLORATION LTD.
DIAMOND DRILL RECORD**

CORE PAGE 4 OF 5

Property LUCKY-STRIKE Project No. 131 Depth Date Began

Hole No. LKY#5 Coord. Horizontal Length Date Completed

Claim No. Core Size Drilled By KOOTENAY

Grid No. Angle & Direction Elevation Logged By G. WRIGHT

INTERVAL FEET / METRES	NUMBER	WIDTH	Au.	Ag.	Cu.	Zn.	WIDTH X ASSAY						AVERAGES							
													WIDTH	Au.	Ag.	Cu.	Zn.			
118.10-118.40	60160	.30	.08	.2																
118.40-122.10	WASTE	3.70	0.00	0.00																
122.10-122.40	61	.30	.07	.6																
122.40-122.70	62	.30	.05	.2																
122.70-123.20	63	.50	.12	.5																
123.20-123.40	64	.20	.20	.3																
123.40-123.70	60165	.30	.09	.4																
123.70-124.10	66	.40	.41	1.9																
124.10-124.50	67	.40	.12	.6																
124.50-124.90	68	.40	.14	.5																
124.90-125.30	69	.40	.14	.6																
125.30-125.70	60170	.40	.11	.4																
125.70-126.10	71	.40	.15	.5																
126.10-126.50	72	.40	.23	1.0																
126.50-126.80	73	.30	.19	.7																
126.80-127.10	74	.30	.22	.9																
127.10-127.50	60175	.40	.21	.8																
127.50-128.00	76	.50	.56	.6																
128.00-128.50	77	.50	.13	.5																
128.50-129.00	78	.50	.15	.5																
129.00-129.50	79	.50	.10	.3																
129.50-129.80	60180	.30	.12	.4																
129.80-130.10	81	.30	.26	.1																
130.10-130.40	82	.30	.13	<.1																
130.40-130.70	83	.30	.38	.3																
130.70-131.00	84	.30	.14	.3																
131.00-131.50	60185	.50	.53	.7																
131.50-132.90	WASTE	1.40	0.00	0.00																
132.90-133.40	86	.50	.10	.1																
133.40-133.90	87	.50	.13	.4																
133.90-134.40	88	.50	.12	.6																
134.40-134.90	89	.50	.11	.6																
134.90-135.40	60190	.50	.18	.7																
135.40-135.90	91	.50	.07	.4																
135.90-136.20	92	.30	.12	.5																
136.20-136.50	93	.30	.06	.4																
136.50-136.80	94	.30	.04	.2																
136.80-137.20	60195	.40	.03	.2																
137.20-137.50	96	.30	.03	.1																
137.50-137.80	97	.30	.06	.1																



GRANGES EXPLORATION LTD.
DIAMOND DRILL RECORD

CORE PAGE 5 OF 5

Property *LUCKY STRIKE* Project No. *121* Depth Date Began
Hole No. *LKY # 5* Co ord. Horizontal Length Date Completed
Claim No. Core Size Drilled By *KOOTENAY*
Grid No. Angle & Direction Elevation Logged By *G. WRIGHT*

INTERVAL FEET/METRES	NUMBER	WIDTH	Au.	Ag.	Cu.	Zn.	WIDTH X ASSAY						AVERAGES						
																WIDTH	Au.	Ag.	Cu.
<i>137.80-138.10</i>	<i>98</i>	<i>.30</i>																	
<i>138.10-139.60</i>	<i>WASTE</i>	<i>1.50</i>																	
<i>139.60- E.O.H.</i>																			

GRANGES EXPLORATION LTD.
DIAMOND DRILL LOG

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Property: Kootenay Mines Project No: 101 Depth: 1000 m Date begun: 11/21/87
 Hole No: LKY 5 Co ord: 6557 N Horizontal Length: Date Completed: NOV. 21, 1987
 Claim No: 5607 E Core Size: Nq Drilled By: KOOTENAY
 Grid No: Angle & Direction: -60° W Elevation: 875.0 m Logged By: PETER OSHUST

INTERVAL FEET (METRES)	DESCRIPTION	SAMPLE RECORD							
		FROM	TO	WIDTH	SAMPLE	Au.	Ag.	Cu.	Zn.
0 - 0.9	NO CORE								
0.9 - 8.4	GREY CALCAREOUS ARGILLITE POORLY LAMINATED, GENERALLY CONTORTED, MILDLY RUSTY WITH <1% ~1mm SOLUTION VUGS. ~30% WHISPY LAMINATIONS AND INTERBANDS OF DARK GREY ARGILLITE. TOP 1.0 M HAS A GREENISH CAST. TRACE - <1% FINE GR DISSEM PY IN ARGILLITE. 10-15% DIFFUSE QZ STRGS. 1-2% FINE GR CARB, TRACE - <1% PY, TRACE TET IN QZ.								
	1.0 3cm QZ STRG WITH BLACK ARGILLITE ALONG SELVAGES FOR 1-2 mm. CONTAINS 2-3% MILDLY RUSTY CARB, TRACE PY. CA 50°.								
	2.1 2cm QZ STRG AS ABOVE. CA 68°								
	3.3 - 3.4 DIFFUSE QZ STRG IN DARK GREY ARGILLITE INTERBAND, WITH 1-2% FINE GR CARB. CA 40°								
	3.6 3cm PASTY BLACK ARGILLITE GOUGE.								
	6.8 - 7.7 ~30% DIFFUSE QZ STRGS AS ABOVE. TRACE PY, TET. CA AT 7.4 m QZ STRG 80°.								
8.4 - 66.5	GREEN TO GREENISH GREY ARGILLITE OR VOLCANIC TUFF POORLY TO WELL LAMINATED, GENERALLY CONTORTED. 10% GREY ARGILLITE INTERBANDS AND LAMINATIONS. 2-3% YELLOW TO BUFF CARB INTER- BANDS. MINOR SECTIONS MILDLY RUSTY WITH ~1mm SOLUTION VUGS. TRACE - <1% FINE GR PY IN ARGILLITE. ~15% QZ AND QZ-CARB STRGS TO DIFFUSE VEINLETS. TRACE - 1% FINE GR PY, TRACE SPH, GAL/TET IN QZ. HARD, MODERATELY SILEXIFIED FROM 34.5 - 52.0 WITH QZ < 25%.								
	8.4 - 15.0 MILDLY RUSTY, POORLY TO WELL LAMINATED, GREEN ARGILLITE / VOLCANIC TUFF. RUBBLY AND BROKEN FROM 10.2 - 11.0. 5-7% RUSTY CARB INTER BANDS AND INTER LAMINATIONS. 5-7% QZ-CARB STRGS. ≥ 5cm RUSTY BUFF EARTH. CARB INTERBAND FROM 11.0 - 11.05 CA 27°.								
	16.97 4cm QZ STRG. CA 65°								


**GRANGES EXPLORATION LTD.
DIAMOND DRILL LOG**

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Property LUKON SIMON Project No. 101 Depth Date began

Hole No. LKY 5 Coord. Horizontal Length Date Completed

Claim No. Core Size Drilled By

Grid No. Angle & Direction Elevation Logged By

INTERVAL FEET / METRES	DESCRIPTION	SAMPLE RECORD							
		FROM	TO	WIDTH	SAMPLE	Au.	Ag.	Cu.	Zn.
29.16 - 29.7	3-4cm QZ STRG RUNNING // CORE. ~ 3% CARB, RUSTY CARB. 5%, 1-4mm RUSTY SOLUTION VUGS. TRACE PY, TET.								
37.15 - 37.25	QZ STRG, 2-3% CARB. TRACE PY. CA 42°								
49.9 - 50.15	RUBBLY ZONE.								
51.25 - 51.3	QZ STRG. TRACE PY, SPH. CA 78°								
52.6 - 53.4	BROKEN PIECES OF GREENISH GREY ARGILLITE.								
61.05 - 62.3	BROKEN AND RUBBLY GREENISH GREY ARGILLITE.								
63.85 - 64.3	AS ABOVE								
64.6 - 66.2	AS ABOVE. CA AT QZ STRG AT 65.5m 55°.								
66.5 - 139.96	GREY CALCAREOUS ARGILLITE POOR TO MODERATELY WELL LAMINATED, COMMONLY CONTORTED. ± 30% DARK GREY TO BLACK GRAPHITIC ARGILLITE LAMINATIONS AND INTERBANDS. GREEN ARGILLITE BAND FROM 72.8 - 74.8m. 1-2% YELLOW-GREEN CARB LAMINATIONS. TRACE TO 3% FINE TO MED GR DISSEM PY AND FINE PY STRGS. 10-15% QZ AND QZ-CARB STRGS TO VEINS, ± 10% MED GR CARB. TRACE 2% FINE GR PY. TRACE - <1% SPH, TRACE GAL/TET, COP IN QZ STRGS AND VEINS.								
70.7 - 71.5	DARK GREY TO BLACK GRAPHITIC ARGILLITE. ~ 5% FINE QZ STRGS. RUBBLE AND GOUGES FROM 71.55 - 71.7.								
71.7 - 72.05	GREY ARGILLITE RUBBLE								
72.05 - 72.8	BLACK GRAPHITIC ARGILLITE RUBBLE AND GOUGE.								
72.8 - 74.8	GREEN CALCAREOUS ARGILLITE. BROKEN AND RUBBLY FROM 73.1 - 73.8								
76.6 - 76.7	DIFFUSE QZ WITH 1-2% CARB, TRACE PY. CA 60°								
77.4 - 77.55	DIFFUSE QZ WITH 3-5% MED GR CARB, TRACE PY.								

GRANGES EXPLORATION LTD.
DIAMOND DRILL LOG

Page 3 of 4

Property LUKY SIKRE Project No. 101 Depth Date Began
 Hole No. LKY 5 Co ord Horizontal Length Date Completed
 Claim No. Core Size Drilled By
 Grid No. Angle & Direction Elevation Logged By

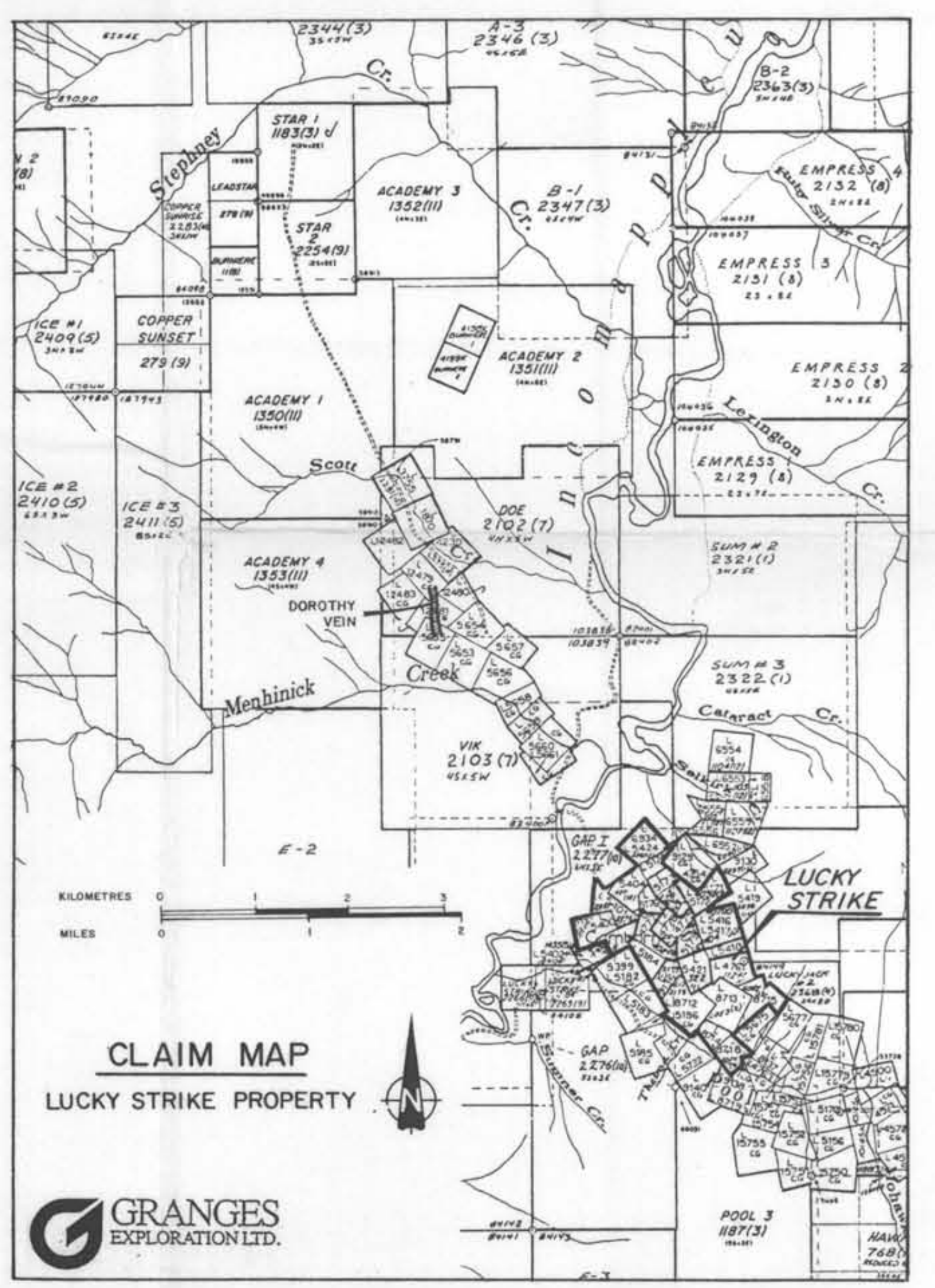
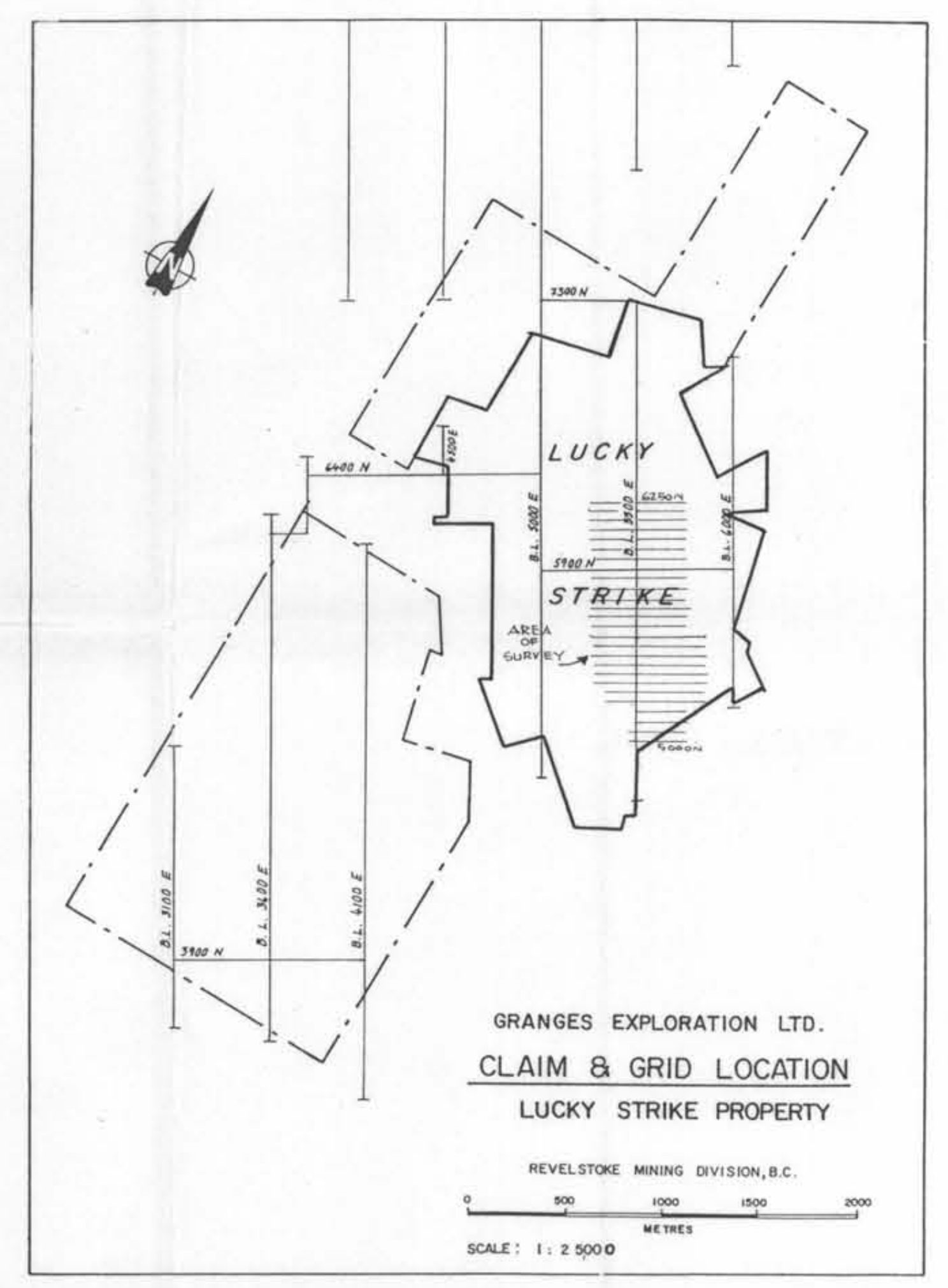
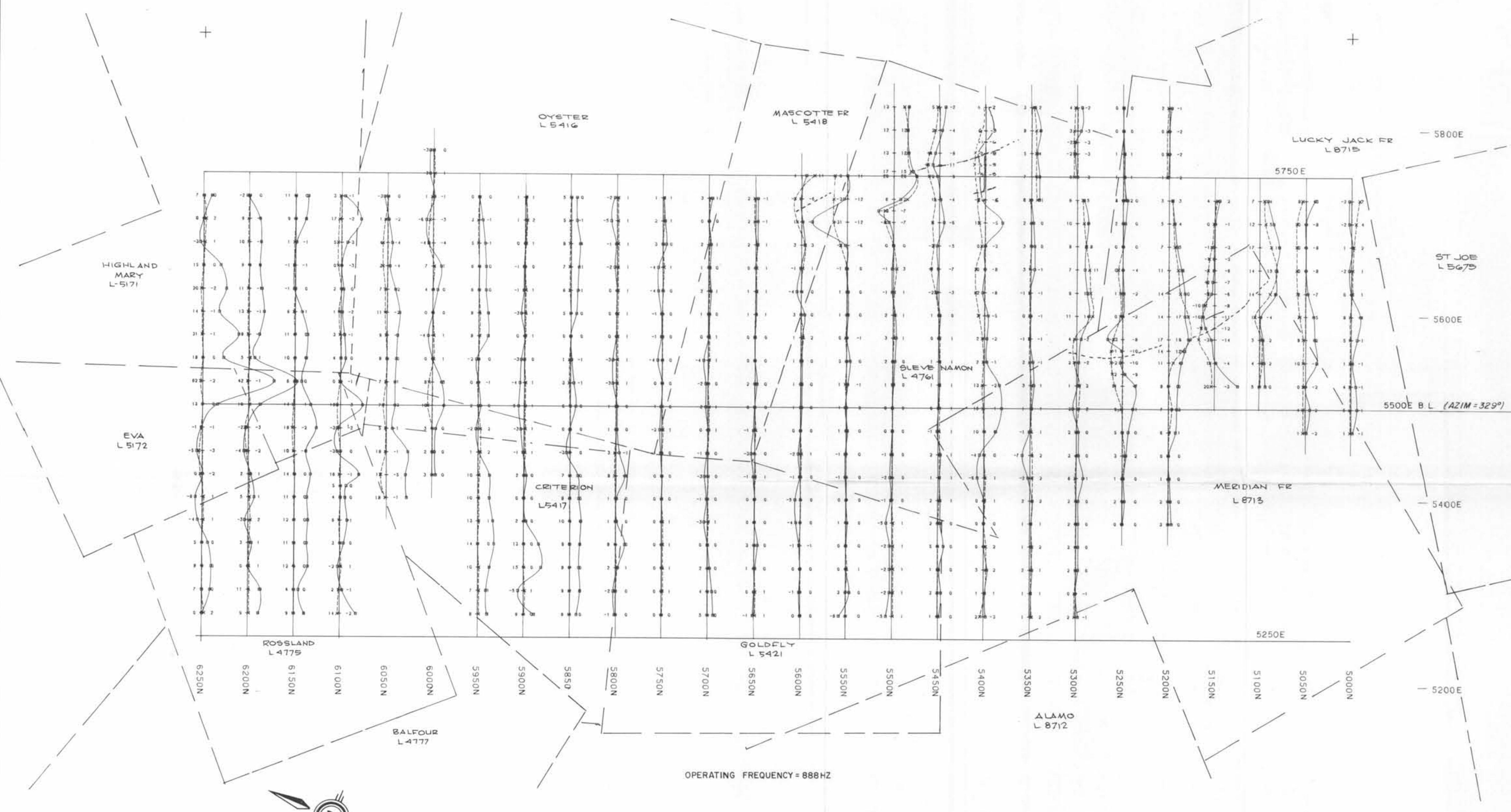
INTERVAL FEET / METRES	DESCRIPTION	SAMPLE RECORD							
		FROM	TO	WIDTH	SAMPLE	Au.	Ag.	Cu.	Zn.
80.88 - 81.6	GREY ARGILLITE, BROKEN AND RUBBLY.								
81.55 - 81.9	DIFFUSE QZ VEIN WITH 10-15% CARB, 30% WALL ROCK INCLUSIONS, TRACE PY.								
81.9 - 84.12	GREY ARGILLITE GOUGE WITH BROKEN QZ PEBBLES. 15% CORE RECOVERY (CORE LOST FROM 81.9 - 83.82).								
84.12 - 85.5	GREY ARGILLITE, BROKEN AND RUBBLY.								
87.35 - 87.45	DIFFUSE QZ STRG WITH 2-3% CARB, TRACE PY. CA 74°								
89.75	~ 6cm QZ STRG WITH 5-8% CARB, TRACE PY. CA 65°								
91.1 - 93.2	GREY TO DARK GREY ARGILLITE, BROKEN AND RUBBLY.								
93.96 - 94.56	BROKEN GREY ARGILLITE.								
97.1 - 97.2	DIFFUSE QZ STRG WITH TRACE - <1% PY. CA 55°								
98.0 - 98.1	DIFFUSE QZ STRG AS ABOVE. CA 62°								
100.45	4cm QZ STRG WITH TRACE - <1% PY. CA 67°								
100.5 - 101.75	BLACK GRAPHITIC TO DARK GREY ARGILLITE RUBBLE AND GOUGE. 40% CORE RECOVERY.								
102.1 - 102.9	BROKEN DARK GREY ARGILLITE.								
105.0	2cm QZ STRG. CA 70°								
107.0 - 107.2	60% DIFFUSE QZ WITH TRACE - PY, TRACE SPH.								
109.1 - 110.4	BROKEN AND RUBBLY DARK GREY ARGILLITE								
113.5 - 123.25	30-40% DIFFUSE QZ STRGS, SECTION IS GENERALLY SILICIFIED IN APPEARANCE, WITH TRACE - 41% PY, TRACE SPH, CPY. 116.35 - 116.75 DIFFUSE QZ VEIN. CA 72°. 122.2 - 122.7 QZ VEIN WITH ~ 5% CARB, TRACE PY, SPH, CPY. CA 40°.								

GRANGES EXPLORATION LTD.
DIAMOND DRILL LOG

Page 4 of 4

Property LAKELAND MINES Project No. 121 Depth Date Began
 Hole No. LKY 5 Co ord. Horizontal Length Date Completed
 Claim No. Core Size Drilled By
 Grid No. Angle & Direction Elevation Logged By

INTERVAL FEET / METRES	DESCRIPTION	SAMPLE RECORD							
		FROM	TO	WIDTH	SAMPLE	Au.	Ag.	Cu.	Zn.
123.25 - 129.9	SHEAR ZONE. BLACK GRAPHITIC ARGILLITE RUBBLE AND GOUGE; WITH BROKEN QZ PEBBLES AND SHARDS. 60% CORE RECOVERY.								
131.0 - 136.45	AS ABOVE. 100% CORE RECOVERY.								
137.5 - 138.1	SILICIFIED ARGILLITE BAND WITH ~ 35% QZ, 21% PY.								
EOH 139.6 m	HOLE CEMENTED BOTTOM UP 100' (30.48 m). HOLE LEFT OPEN AND PLUGGED.								
	ACID TEST AT 81.08 m IS 41° 45'								
	<u>CORE ANGLES ON FOLIATION</u>								
0.91	60°	53.65	50°	99.36	65°				
4.88	63°	56.69	CONTORTED	102.41	88°				
7.92	74°	59.74	60°	105.46	~65°				
10.97	55°	62.79	65°	108.50	75°				
14.02	80°	65.84	60°	111.56	65°				
17.07	~65°	68.88	70°	114.60	65°				
20.12	Z-FOLD	71.93	RUBBLE	117.65	70°				
23.16	~55°	74.98	85°	120.70	50°				
26.21	~70°	78.02	66°	123.74	CONTORTED				
29.26	55°	81.08	68°	126.79	55°				
32.31	70°	84.12	66°	129.85	RUBBLE				
35.36	50°	87.17	43°	132.89	RUBBLE				
38.40	55°	90.22	60°	135.94	RUBBLE				
41.45	67°	93.26	75°	138.99	35°				
44.50	65°	96.31	75°	139.6	40°				
47.54	68°								
50.59	CONTORTED								



SURVEYED BY: J.J. STUDER		DATE: SEPT 1-8, 1988		DRAWN BY: CGU	
COIL SPACING: 50M		IN PHASE PLOTTED TO THE LEFT		DATE: SEPT. 26/88	
INTERPRETED BY: M.P.		PROFILE SCALE: 1CM:20M		TOTAL KM.: 12.37	

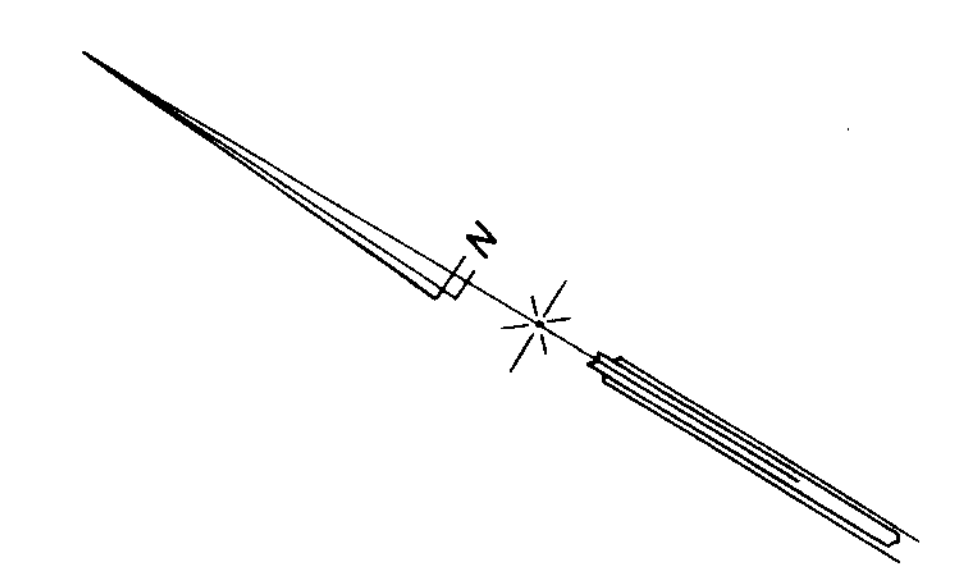
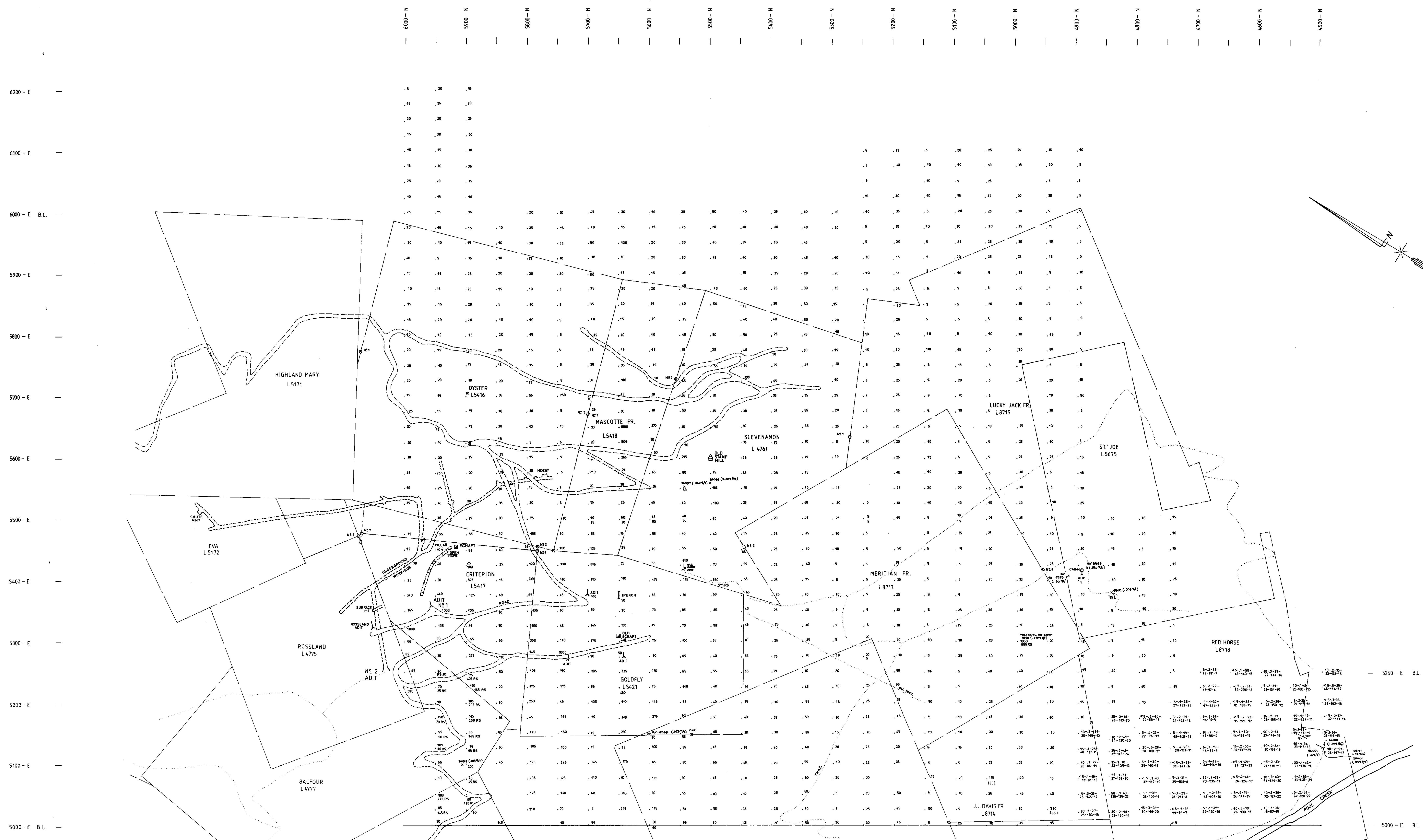
GRANGES EXPLORATION LTD.
VANCOUVER OFFICE

HORIZONTAL LOOP ELECTROMAGNETIC SURVEY
LUCKY STRIKE PROJECT
TROUT LAKE AREA
REVELSTOKE M.D., B.C.

SCALE: 1:2500
PROJECT NO.: 131-1
N.T.S. NO.: 82K-13E

GEOLOGICAL BRANCH
ASSESSMENT REPORT

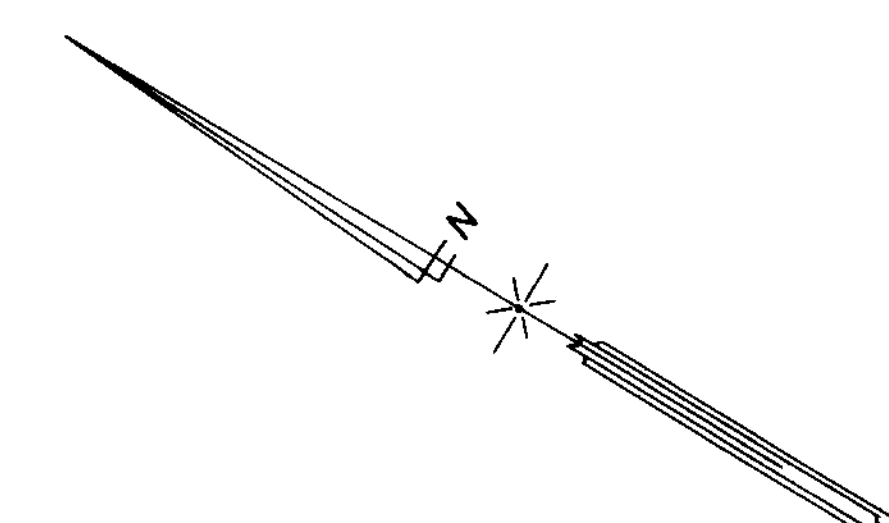
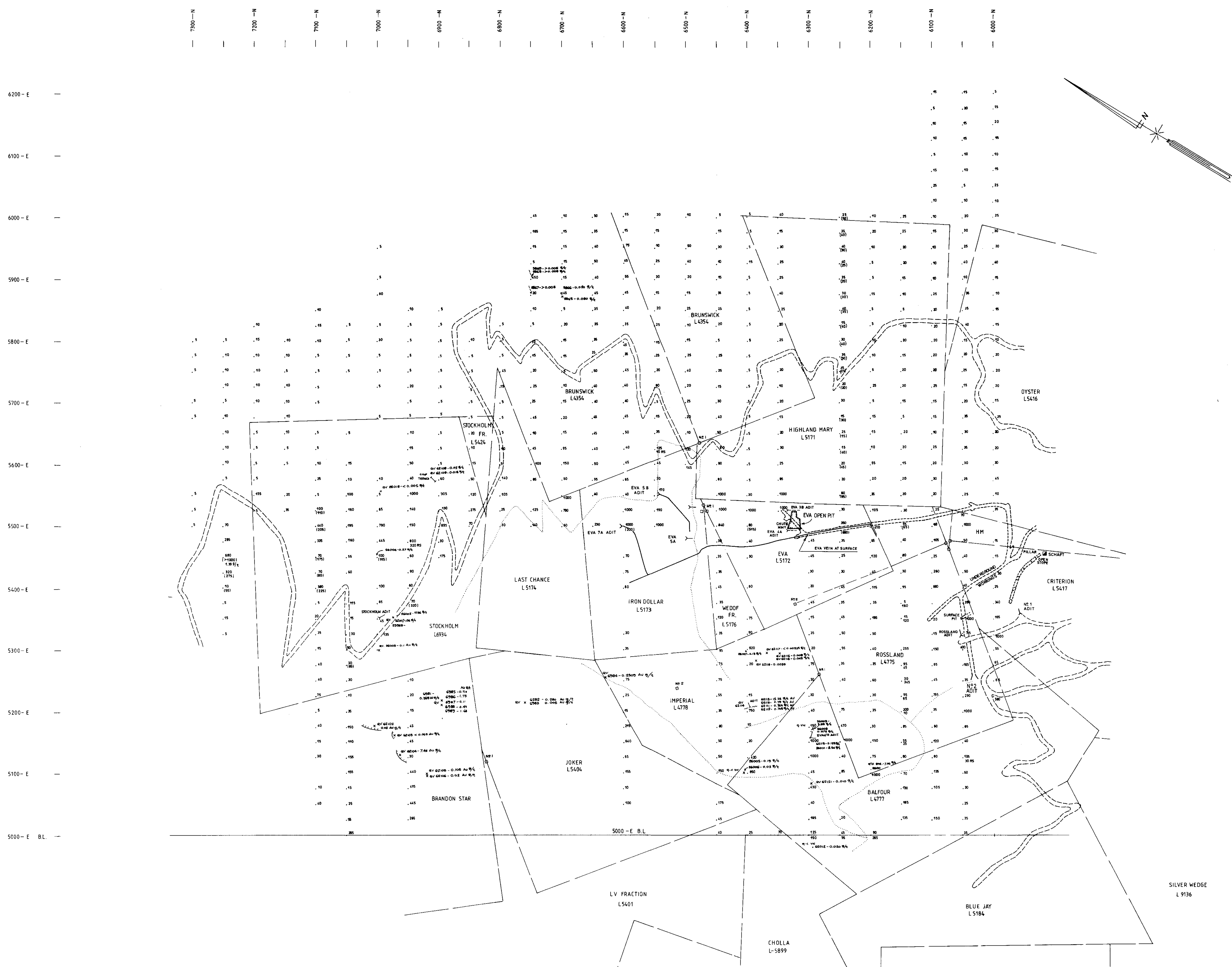
18,232



**GEOLOGICAL BRANCH
ASSESSMENT REPORT**
18,232

EXPLANATION:
1988 SAMPLING
10-2-36 Au-Ag-Cu
12-127-23 Pb-Zn-Ag
1651 OR 110 RS=1988 RESAMPLING
ALL OTHER SAMPLING DONE IN 1987

DRAWN BY: PV. DATE: DEC. 1988	GRANGES EXPLORATION LTD. VANCOUVER, B.C.	GEOCHEMICAL SURVEY Au (ppb), Ag (ppm), Cu (ppm), Pb (ppm), Zn (ppm), As (ppm) LUCKY STRIKE OPTION CAMBORNE AREA REVELSTOCK MINING DIVISION, B.C.	SCALE: 1:2500 PROJECT No.: 131-2 N.T.S. No.: 82 K-13 E
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**GEOLOGICAL BRANCH
ASSESSMENT REPORT**

18,232

EXPLANATION:
 (85) OR 320 RS = 1988 RESAMPLING.
 ALL OTHER SAMPLING DONE IN 1987

DRAWN BY: P.V.	DATE: JAN. 1989	GRANGES EXPLORATION LTD. VANCOUVER, B.C.	GEOCHEMICAL SURVEY	SCALE: 1:2500
			Au (ppb)	PROJECT No.: 131-3
			LUCKY STRIKE OPTION	N.T.S. No.: 82 K-13 E
			CAMBORNE AREA	
			REVELSTOCK MINING DIVISION, B.C.	

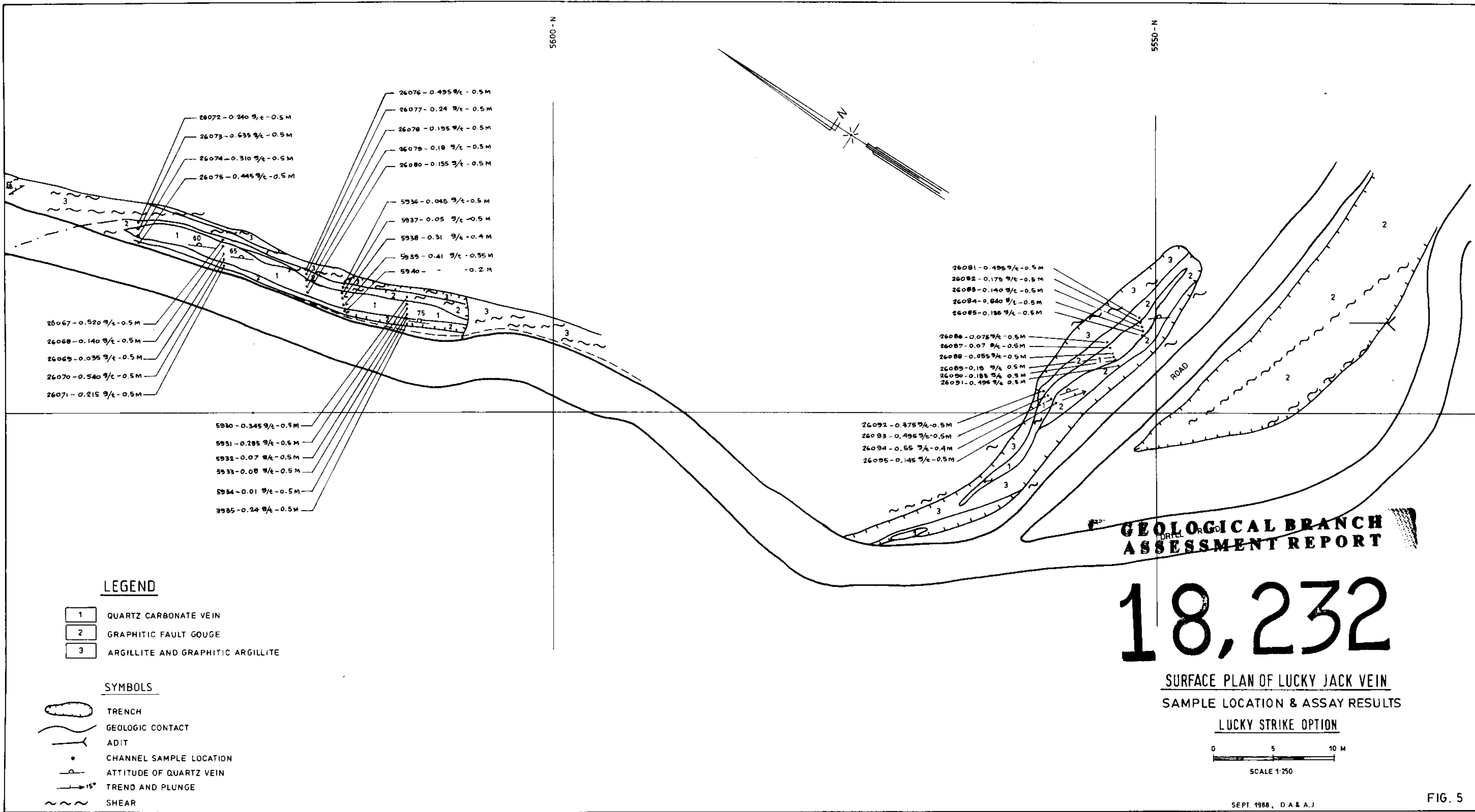


EXPLANATION:
 (145) OR 165 RS = 1988 RESAMPLING
 ALL OTHER SAMPLING DONE IN 1987

**GEOLOGICAL BRANCH
 ASSESSMENT REPORT**

18,232

	DRAWN BY: P.V.	GRANGES EXPLORATION LTD. VANCOUVER, B.C.	GEOCHEMICAL SURVEY Au (ppb) LUCKY STRIKE OPTION CAMBORNE AREA REVELSTOKE MINING DIVISION, B.C.	SCALE: 1:2500
	DATE: JAN. 1989			PROJECT No.: 131-4 N.T.S. No.: 82K-13E



26072 - 0.240 g/t - 0.5 M
 26073 - 0.635 g/t - 0.5 M
 26074 - 0.310 g/t - 0.5 M
 26075 - 0.445 g/t - 0.5 M
 26076 - 0.495 g/t - 0.5 M
 26077 - 0.24 g/t - 0.5 M
 26078 - 0.195 g/t - 0.5 M
 26079 - 0.19 g/t - 0.5 M
 26080 - 0.155 g/t - 0.5 M
 5936 - 0.045 g/t - 0.5 M
 5937 - 0.05 g/t - 0.5 M
 5938 - 0.31 g/t - 0.4 M
 5939 - 0.41 g/t - 0.55 M
 5940 - - - 0.2 M
 26067 - 0.520 g/t - 0.5 M
 26068 - 0.140 g/t - 0.5 M
 26069 - 0.035 g/t - 0.5 M
 26070 - 0.540 g/t - 0.5 M
 26071 - 0.215 g/t - 0.5 M
 5930 - 0.345 g/t - 0.5 M
 5931 - 0.285 g/t - 0.5 M
 5932 - 0.07 g/t - 0.5 M
 5933 - 0.08 g/t - 0.5 M
 5934 - 0.01 g/t - 0.5 M
 5935 - 0.24 g/t - 0.5 M

26081 - 0.495 g/t - 0.5 M
 26082 - 0.175 g/t - 0.5 M
 26083 - 0.140 g/t - 0.5 M
 26084 - 0.840 g/t - 0.5 M
 26085 - 0.185 g/t - 0.5 M

26086 - 0.075 g/t - 0.5 M
 26087 - 0.07 g/t - 0.5 M
 26088 - 0.055 g/t - 0.5 M
 26089 - 0.19 g/t - 0.5 M
 26090 - 0.185 g/t - 0.5 M
 26091 - 0.495 g/t - 0.5 M

26092 - 0.375 g/t - 0.5 M
 26093 - 0.495 g/t - 0.5 M
 26094 - 0.65 g/t - 0.4 M
 26095 - 0.145 g/t - 0.5 M

**GEOLOGICAL BRANCH
 ASSESSMENT REPORT**

18,232

**SURFACE PLAN OF LUCKY JACK VEIN
 SAMPLE LOCATION & ASSAY RESULTS**

LUCKY STRIKE OPTION
 0 5 10 M
 SCALE 1:250

LEGEND
 1 QUARTZ CARBONATE VEIN
 2 GRAPHITIC FAULT GOUGE
 3 ARGILLITE AND GRAPHITIC ARGILLITE

SYMBOLS
 TRENCH
 GEOLOGIC CONTACT
 ADIT
 CHANNEL SAMPLE LOCATION
 ATTITUDE OF QUARTZ VEIN
 TREND AND PLUNGE
 SHEAR