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# **DIAMOND DRILLING REPORT**

on the

# **1998 EXPLORATION OF THE LUSTDUST PROPERTY**

## **OMINECA MINING DIVISION**

# **BRITISH COLUMBIA**

LATITUDE 55 34' LONGITUDE 125 25'

NTS 93N/11W

For-Alpha Gold Corp.

November, 1998 By G. Evans

> GEOLOGICAL SURVEY BRANCH ASSESSMENT REPORT

0.060

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### **1. - EXECUTIVE SUMMARY**

Exploration on the Lustdust property in 1998 continued to develop a coherent hydrothermal system that integrates the various zones of mineralization on the property. Additional work is warranted on the #1 zone sulphosalt veins in the southern portion of the property, which contain high values of Au, Ag, Pb, Zn and Sb closely associated with felsic dykes. Additional work is required on the #2 and #3 oxides which are oxidized zones with high Au and Zn values +/- Pb, Ag in replacement zones.

This large hydrothermal shows good zonation with persistent Au mineralization throughout. A number of valid targets remain untested over large portions of the property. Additional work in a persistent manner is warranted on this project which displays complex structural controls with erratic but high-grade values.

## 2. -INTRODUCTION

#### 2.1 - Location and Access

The Lustdust property is located in the Omineca Mining Division of north-central British Columbia (Fig #1), NTS 93N/11W, at Latitude 55 34' North and Longitude 125 25' West. The property is located approximately 210 kilometers northwest of Prince George, B.C. and 36 kilometers east of Takla Landing, immediately west of the old Takla Mercury Mine.

Access to the property is gained by travelling approximately 25 kilometers of paved road from Fort St. James towards Tachie Lake and thence 88 kilometers along the Leo Creek road, 56 kilometers along the Driftwood, approximately 20 kilometers along the Fall-Tsyata and 3 kilometers along the Silver Creek road. This comprises a total of 191 kilometers along forest service roads.

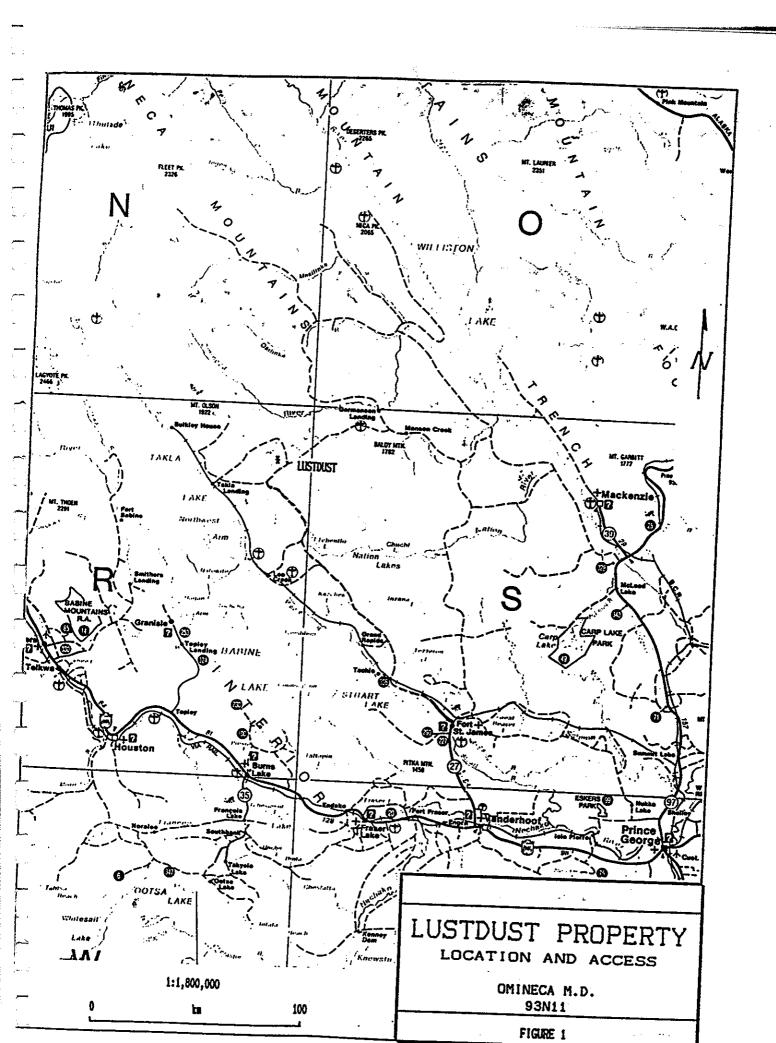
#### 2.2 - Property Status

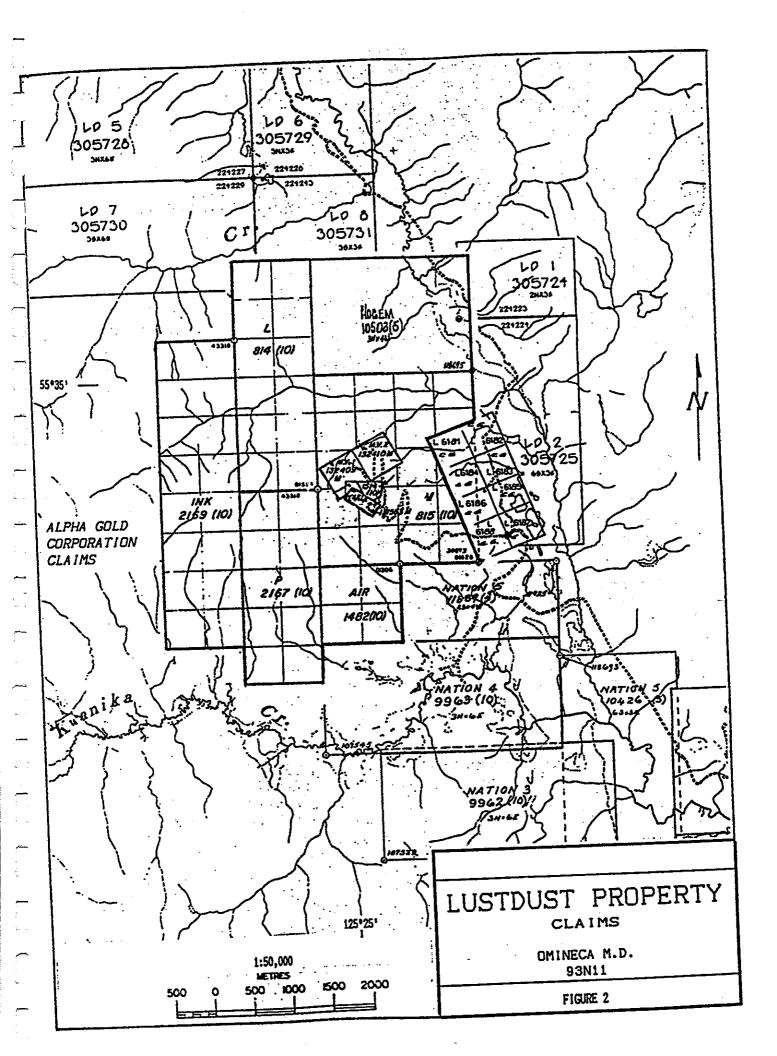
The Lustdust property is owned by 100% by Alpha Gold Corp. with minor underlying royalties. The property comprises a total of 77 units (see fig.2).

Claim Name	Record No.	No. of Units	<b>Expiry Date</b>		
M.V.1	246007	1 (2 post)	20/09/2008*		
M.V.2	246008	1 (2 post)	20/09/2008*		
Wow 1	238056	1 (2 post)	20/10/2008*		
L	237969	12	17/10/2008*		
Μ	237970	20	17/10/2008*		
Air	238053	4	11/10/2008*		
Р	238186	10	25/10/2008*		
Ink	238187	16	23/10/2008*		
Hogged	240667	12	21/05/2008*		

These claims form the 77 unit Lustdust group.

\* Pending acceptance of this report.





## 2.3 Physiography and Climate

The terrain is moderate ranging in elevation from 1000-1525 meters on the property. Lower elevations are covered by widely spaced lodgepole pine while at elevations above 1200 meters forest cover consists of overmature spruce and balsam. Summers are short and rainy while moderate snowfall winters persist from late September through April/May at these higher elevations.

## 2.4 History

The property has seen a number of operators since the original discovery of the #1 zone in 1944 and includes:

Date	Operator	Claims	Zone	Work
1944		Wow #1	Zone 1	No.1 zone discovered and staked.
1945	McKee Group Leta Expln.Ltd.	Wow #1	Zone 1	Trenching -106.7 meters of drifting.
1952- 1954	Bralorne Mines Ltd.	Wow #1,MV1, MV2, M	Zone 1,2,3,4b	5306 m's of trenching and 1429 m's of drilling.
1960	Bralorne Mines Ltd. – Noranda, Canex J.V.	Wow #1, MV1,MV2, M	Zone 1,2,3,4b	7 rock cuts, 34 test pits, 1508 m's of cat trenching and 200 m's of hand trenching.
1963	Bralorne Mines Ltd.	Wow #1	Zone 1	Sampling
1964	Takla Silver Mines Ltd.	Wow #1	Zone 1	229 m's of drifting
1966	Takla Silver Mines Ltd.	Wow #1,MV1, M	Zone 1,3,4b	229 m's of underground ddh 762 m's of surface drilling
1968	Takla Silver Mines Ltd. Anchor Mines Ltd.	Wow #1	Zone 1	1337 m's of surface ddh 573 m's of underground ddh 90 kg bulk sample
1978	Granby Mining Corp.	MV1, MV2, K, L, M	Zone 1, 2, 3, 4, 4b	Pulse E.M. DDH

1980	•	Granby Mining Corp.	LM	Zone 1, 2, 3, 4b	airborne (mag, VLF), ground (mag,VLF), soil survey, 2 ddh's
1981		Noranda Expln. Co. Ltd.	LM	Zone 4b	8 ddh's (7 wildcat holes)
1986		Welcome North Mines Ltd.	Wow #1, MV 1 M	Zone 1, 3, 4b	Sampling
1986		Pioneer Metals	Wow #1, MV1, M	Zone 1, 2, 3, 4b	Geological Survey
1991		Alpha Gold	MV1	Zone 3	10 ddh's 906.6 m's
1992	· · ·	Alpha Gold	L, M	Zone 4b	Trenching 30 ddh's- 1520 m's
1993		Alpha Gold	L,M	Zone 4b	24 ddh's-
1996	. •	Teck Expln.	Lustdust	Zone 2,3,4,4b	Geology, soils, trenching
1997		Teck Expln.	Lustdust	Zone 1,3,4,4b	3062.8 m's of NQ ddh in 16ddh's

## 3. - 1998 Program

During 1998 the following work was completed:

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1. 1,103 meters of NQ drilling were completed in 14 shallow holes.

2. 120 samples were split and analyzed for Au geochem and 30 element ICP along with assays where Au, Ag and Cu, Pb, and Zn where elevated.

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#### 4.1- Regional Geology

The property is located within Permian Cache Creek rocks directly west of the Pinchi fault which seperates Cache Creek rocks from the Jurassic Hogged Batholith and Takla rocks to the east. The Cache Creek sequence is believed to be a conformable Permian sequence approximately 3.0 km's thick (Armstrong 1946) consisting of a basal limestone sequence overlain by a argillaceous and chert dominated sequence. The units are strongly folded with a strong axial planar foliation along a north-northwest strike trend. The Pinchi fault can be traced for approximately 600 km's through central B.C. and is believed to have been initially a major thrust fault which was later reactivated as a large right lateral strike/slip fault.

A number of Hg occurrences are present along the Pinchi fault along much of its length and a few Au and base metal occurrences are present within Cache Creek rocks near the Pinchi fault including; the Lustdust, Indata and Axelgold properties.

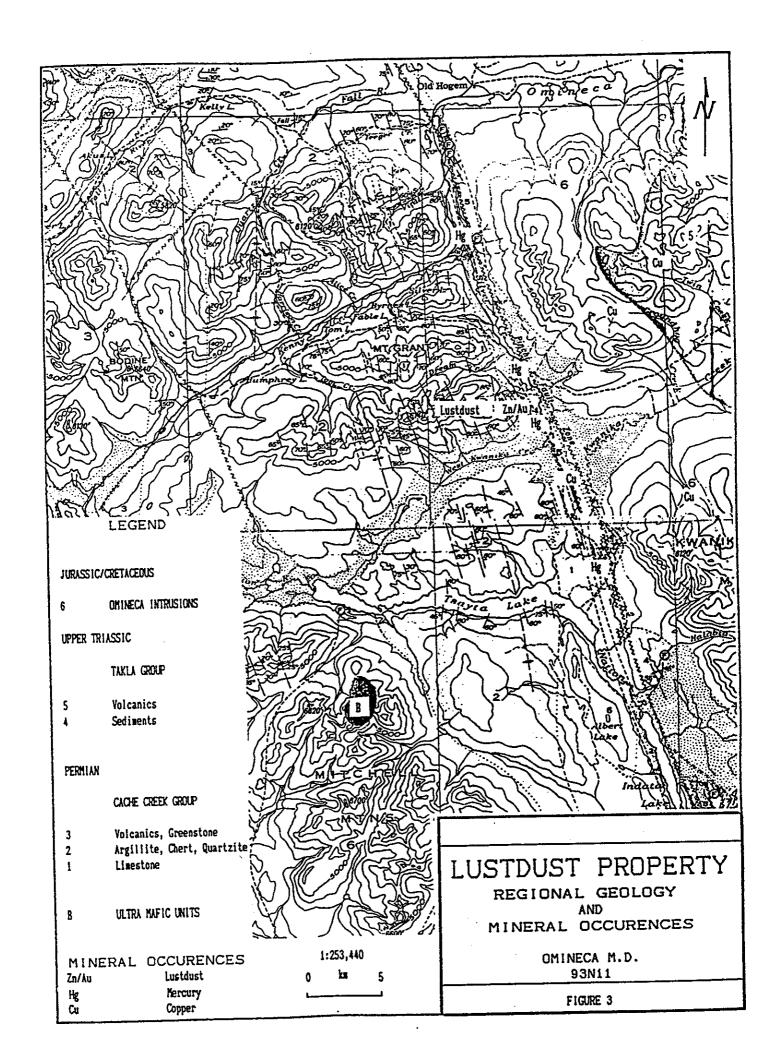
#### 4.2- Property Geology

The Lustdust property is underlain entirely by Permian Cache Creek units which form overturned west dipping folds (north plunging) parallel to the north-northwest trending Pinchi fault which lies within 1 kilometer of the eastern property boundary. The property is dominated by the carbonate sequences with lesser interbedded and possibly overlying graphitic and calcareous phyllites. To date little evidence for previously mapped NE trending faults has been recognized but a number of thrust faults have been recognized.

In the NW corner of the property there is a  $\sim 1$  square kilometer monzonite plug which corresponds to a small magnetic feature on the government airborne magnetic survey. This plug has a number of sills parallel with bedding extending from it and is the probable source of mineralization on the property. Proximal to the monzonite plug the phyllites are extensively hornfelsed and the carbonate is replaced by garnetite skarn and calc-silicate banding.

Several styles of mineralization are present on the property but appear genetically related to the monzonite plug. These include disseminated py, po, aspy in the monzonite stock and sills with low Au values, and garnetite skarn and calc-silicate bands with values in Cu, Zn, Au, Ag in proximal carbonate beds (#4 zone). Slightly more distal are structural and stratigraphically controlled replacement sulphide and oxide replacement bodies (zone 2, 3, 3 extension and 4b).

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These zones appear stratigraphically controlled by particularly permeable and karsted carbonate beds in close proximity to chlorite altered mafic tuff beds. Both the replacement and sulphosalt veins form in proximity to monzonite or felsic dykes which are generally axial planar. These zones also show signifigant thickening in the noses of antiforms and contain significant values of Au, Ag, Pb, Zn and Sb. The most distal style of mineralization is sulphosalt veins (zone 1) which follow faults and bedding plane structures and contain high values in Au, Ag, Pb, Zn and Sb.

#### 4.3- Lithology

The units presented below are in no particular stratigraphic order and are presented for descriptive purposes:

#### Unit 1- Chert with Carbonaceous Phyllite

This unit is relatively rare and occurs within the carbonaceous phyllite package. Typically it is 1-2 cm laminated white-grey chert beds with graphitic bedding planes with bed thickness' rarely exceeding more than 2.0 meters in thickness. Occasional beds may have a light green hue due to the presence of minor chlorite, also it is common for 1-2% very fine-grained pyrite to be present in the matrix. Rare carbonate beds are present in this unit as 1-10 cm recrystallized white/grey limestone beds, which are more recessive.

Unit 1a-Silicified and Hornfelsed equivalent of Unit 1

Within 600-700 meters of the monzonite plug unit 1 becomes pervasively hornfelsed with a ribboned cherty appearance and graphitic partings become pervasively sericite altered. Disseminated py/po is generally enhanced in the 2-10% range.

#### **Unit 2-Carbonaceous Phyllites**

This unit tends to weather very recessively and is rarely exposed in outcrop but roads and trenching reveal it is a very common unit. The unit is a black fissile graphitic phyllite with partings 2-10mm apart. Original bedding is rare with a penetrative foliation being well developed. Occasionally primary bedding is seen with an increased carbonate content or more siliceous beds of Unit 1 present. This unit commonly has 3-10% very finely disseminated pyrite which in some sections forms moderate gossanous zones.

Unit 2a-silicified and sericite altered hornfels of unit 2

This unit becomes more intensely altered proximal to the monzonite intrusive and forms an aureole of about 500-600 meters of the exposed intrusive. They rocks are strongly silicified and albitized? And visually appear as cherts. There is a moderate sericite component preserved in foliation planes and occasional moderate graphite bands.

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Typically this unit has 5-10% finely disseminated py, po and surface exposures are quite gossanous.

#### Unit 3- Mafic Tuff w/ limestone clasts

This unit(s)? is relatively rare but offers a very distinctive marker horizon within generally nondescript carbonate units. The unit consists of well-foliated chlorite laminations with boudins or fragments of limestone 1-5 cm in length in discrete beds. The unit contains a moderate amount of interstitial calcite and minor amounts of sericite, with up to 2% finely disseminated pyrite.

#### Unit 4- Limestone Grey/White Crystalline

This unit covers much of the property and forms massive non descript grey-white outcrops of 1 mm calcite crystals, bedding is very rare.

Unit 4a- Silicified Limestone- This subunit is rare but is a more distinctive unit with pervasive moderate white silicified matrix with 1-4 mm quartz veinlets.

Unit 4b- Dolomite- Also a rare unit consisting of a fine grained light grey matrix which does not react well to HCL acid, likely due to dolomite content.

Unit 4c- Calcite Knot Limestone- Quite a common unit with boudins or fragments of calcite in a limestone matrix. These boudins range from 1-10 cm in length and maybe a primary debris flow within the limestones.

#### **Unit 5- Garnetite Skarn**

A very distinct unit which is localized in the northern portion of the property proximal to the monzonite intrusive. It is an alteration product of almost complete replacement of limestone by the monzonite stock and sills and contacts with limestone are sharp. The unit consists of 1-30 mm brown-green garnets with little or no matrix (minor sericite and calc.silicates). Where exposed the unit often decomposes into gravel consisting of well-formed garnets. The matrix commonly contains 2-20% disseminated py, po 1-5% specular hematite, 1-2% aspy, trace-1% sp.cp,sb.

Unit 5a- Calcsilicates- Beds of this subunit are present within the garnetite skarn and are variable bedded siliceous, garnet-diopside, marble beds on a 1-10 cm. scale. Sulphides are present in the 5-20% range comprised of py, po, aspy, sp, cp, sb in descending order.

#### Unit 6- Felsic Dykes

These dykes and sills are common throughout the property and vary from 1-10 meters in width and display good strike continuity. No wholerock work has been done to date but gradational field relationships indicate these rocks are a fine-grained equivalent of the monzonite.

These sills have an aphanitic felsic matrix w/ 10-20% 1-3mm plagioclase phenocrysts and occasional hornblende, biotite, and quartz phenocrysts.

These rocks are commonly silicified and weakly to moderately sericite altered, and rarely chlorite altered. They contain between 5-25% disseminated py, po, aspy with occasional traces of chalcopyrite, stibnite and galena. These sills appear to directly related to mineralization and are present within or proximal to skarns, replacements and sulphosalt veins.

#### **Unit 7- Monzonite Dykes/Stock**

This lithology is exposed mainly in the nortwestern portion of the property where a approx. one square kilometer stock of medium grained monzonite is poorly exposed. The age of this intrusive is uncertain but is probably of Mesozoic-Tertiary age. The rock is an equigranular unit with phenocrysts ranging in size from 2-8 mm, dominated by plagioclase with lesser hornblende, biotite and quartz phenocrysts. A fine matrix is normally pervasively sausaritized or sericitized to a moderate degree as are the plagioclase phenocrysts. Contact phases and large sills are commonly strongly sericite and argillically altered with elevated base and precious metal values.

#### Unit 7a- Feldspar Megacrystic Dykes

This unit is quite common throughout the property and is compositionally equivalent to the monzonite. a distinctive feature is the 1.0-1.5 cm crowded plagioclase phenocrysts in a pottasic? matrix.

#### Unit 8 - Mafic Dykes

These dykes are reported by previous operators but were not seen in the present program.

#### **Unit 9- Massive Sulphides**

Massive sulphides consist of 80-95% fine grained to coarse-grained sulphide masses in a carbonate-barite? gangue. Sulphides vary markedly with contacts on a .5 cm scale from fine-grained pyrhotite to coarse-grained pyrite, sphalerite and stibnite. There is a complex timing to sulphide phases but at this time it is poorly understood.

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Laminated textures are uncommon with a general composition comprised of irregular blocks of sulphides which rapidly grade into sulphides of varying composition and interfingered karsted limestone blocks are common.

#### Unit 9a- Oxides

Oxides are common on the property and their origin remains debatable as to whether they represent surface oxidation or a primary hydrothermal effect during the mineralizing system.

Two common varieties of sulphides are seen one being a low specific gravity type with a yellow/orange/light brown coloration and the other being a moderate specific gravity bright red/brown oxide with remnant sulphide blocks.

These oxides are composed of limonite and hemimorphite with variable amounts of manganese. To date the yellow oxides appear to assay higher values in Zn but all samples carry values in Au, Ag, Pb, Zn, Sb and As.

#### 4.4- Structure

The stratigraphy strikes N-NW with generally vertical to moderate westerly dips. Very little bedding is preserved and structural information is generally rare on the property. There is an abundance of Cache Creek carbonates on the property which appear to be both underlain and overlain by graphitic phyllite/chert sequences. Previous operators have mapped numerous NE trending faults with significant lateral? offsets which have not been recognized to date. These NE trending faults reportedly had a number of felsic and monzonitic dykes aligned along them and the 1996 work observed the dykes were generally axial planar or at very low angles to bedding and with additional work this continues to be the case. Numerous axial planar faults are present including thrust faults (i.e. the west side of the 4b zone) which are moderate west dipping. These thrust faults and the folding mentioned next are likely related to proximity to the large Pinchi Fault which is located near the eastern property border.

With rare bedding information the fold behavior has been difficult to unravel on the property. A number of small scale 1-200 cm folds and larger 10-100 meter folds were located and often are the focus of mineralization. Mapping on a larger scale emphasizes an abundance of carbonates on the southern portion of the property decreasing to the north and this is believed to be due to a shallow-moderate northerly plunge of the sequence.

Regionally folds are typically open but on the Lustdust property folds while not isoclinal are generally overturned with moderate west dipping western limbs and steep west dipping narrow eastern limbs.

This is likely due to proximity to the Pinchi Fault which is believed to have been a major early thrust fault before significant right lateral offset. These folds where observed have a 10-60 degree N-NW plunge and as mentioned some axial planar thrusts are present. The noses of antiforms and potentially synformal hinges are structurally thickened and appear favorable for enhanced thicknesses of mineralization.

#### 4.4- Mineralization

For continuity purposes the various zones on the property have retained their various historic numbers namely the, #1, 2, 3, 3 extension, 4, and 4b zones. As previously mentioned all mineralization appears to form a continuous system grading from proximal skarns, hornfels and porphyry? systems in the northwest through sulphide and oxide replacement systems in the central portion of the property to distal sulphosalt zones such as the #1 zone.

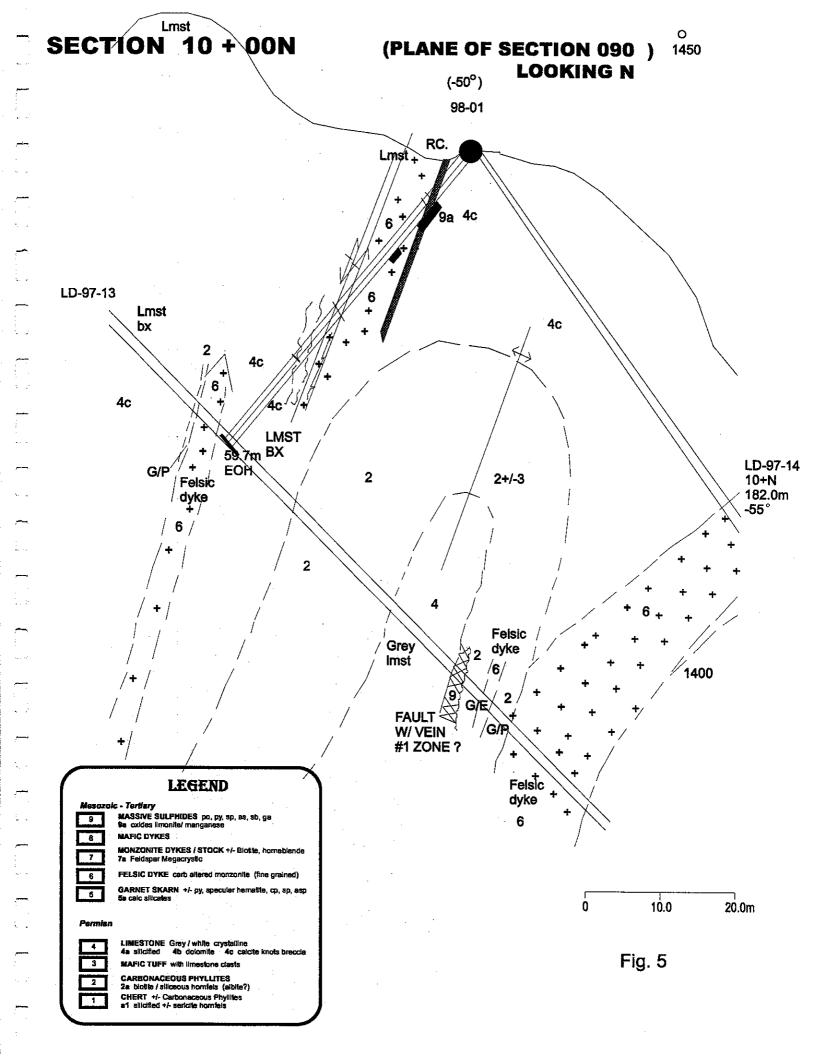
#### 5. - 1998 Diamond Drilling

From the period August 14 through August 22, 1998 LDS drilling of Kamloops completed 1103 meters of NQ drilling in 14 holes on the property. These holes will be discussed in this section by their locations on the various zones and not necessarily in the order they were drilled. Paul Matinen a well experienced geological consultant from Reno Nevada supervised the drill program and logged the drill core and directed the sampling.

#### #1 ZONE -1998 Diamond Drilling

#### (a)-Section 10+00N - LD-98-01 (fig.5)

This single hole tested #1 zone mineralization in an area tested previously by holes LD-97-13 and LD-97-14. The hole was drilled at -50 degrees to the west from the collar of LD-97-14. The hole encountered a narrow high-grade massive sulphide section on the footwall of a felsic dyke. This was over a core section of 3.8 m's with the only significant result an interval from 9.7-9.9 m's (0.2 m's) grading 2.53 g/t Au, 152.3 g/t Ag with 5.72% Pb, 3.60% Zn and 4.72% Sb. This is a new sulphide discovery in the footwall of a felsic dyke within limestone that probably corresponds to the upper dyke encountered in LD-97-13. The significance of the hole is it confirms the westerly dip and fold patterns of the rock units and that there is at least two mineralized zones within this section associated with felsic dykes which are generally axial planar.



#### (b)- Section 8+67N – LD-98-13&14 (fig.6)

These two holes tested a #1 style vein down dip midway between the portal and section 10+00N. These holes are difficult to interpret and indications are that LD-98-14 drilled close to downdip, this emphasizes holes drilled @ 55-70 degrees to the west should be avoided unless testing mineralization in fold noses. Hole LD-98-13 encountered the sulphosalt vein on the hangingwall side of a felsic dyke, which likely is equivalent to the surface showing. This zone was sampled from 48.6-49.8 m's (1.2 m's) grading 0.58 g/t Au, 53.7 g/t Ag, 0.35% Pb, 0.68% Zn and 0.73% Sb. Grades are lower than the surface showing due to dilution by limestone (only 10-20% sulphides). Hole LD-98-14 encountered in excess of 40.0 m's of core length of fractured and faulted mineralization within a felsic dyke. This appears to be largely downdip in a fault and split? in the felsic dykes. Nevertheless this is a significant new discovery in a zone with a possible 8.0-10.0 meter true width. Some of the more significant intersections include:

58.3-61.2 m's (2.9 m's) grading 2.72 g/t Au, 145.2 g/t Ag, 1.37% Pb, 2.54% Zn

80.7-83.0 m's (2.3 m's) grading 2.04 g/t Au, 838.1 g/t Ag, 1.68% Pb, 0.58% Zn

Numerous other lower values were present in this zone which will require additional testing from the west to determine the true width and continuity of the zone. Again this drilling reinforces the multiple vein systems as part of the #1 zone and their close association with felsie dykes.

#### #2 ZONE –1998 Diamond Drilling

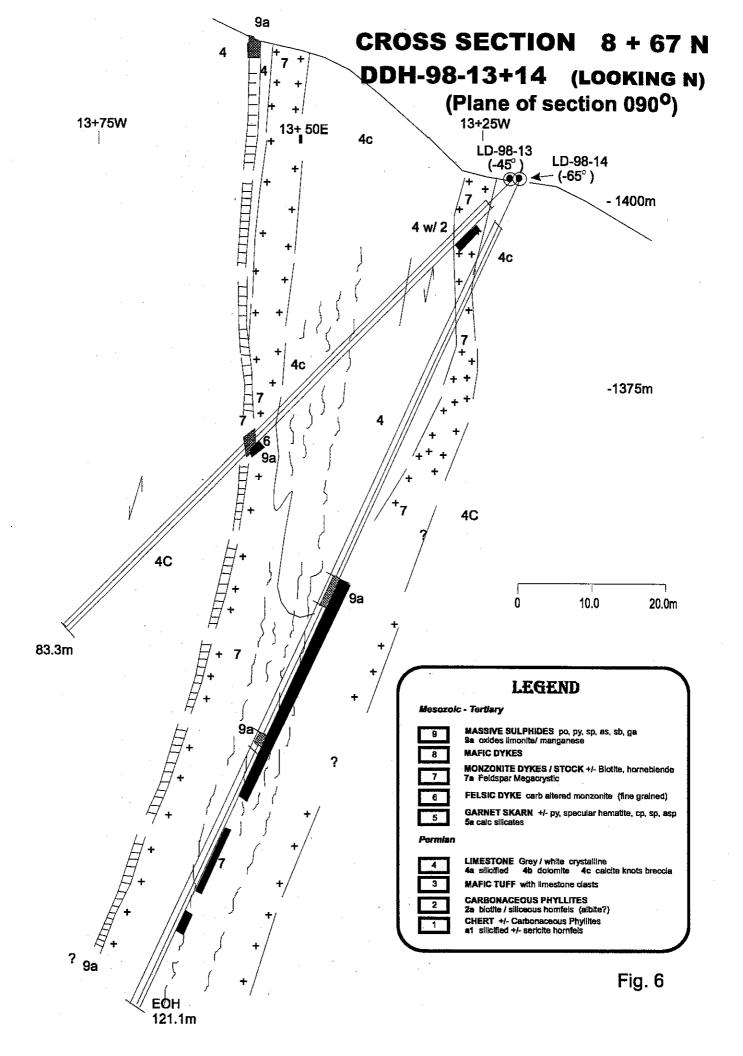
#### Section 10+40N - LD-98-02&03(fig.7)

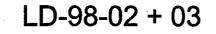
The only holes in the 1998 program to test the #2 zone was LD-98-2 & 3. These holes were drilled to the west and appear to have encountered a strongly folded west dipping limb of mafic tuffs with oxides in the footwall downdip of trench 96-30. This is likely the downdip extensions of the #2 zone which occupies a similar environment to the #3 zone with a slightly more distant felsic dyke. No economic values were encountered but anomalous Au, Ag and Zn are present. This area is believed to be the west limb of a synform but the small scale folds seen in this section offer excellent structural traps and further work in this area is warranted.

#### #3 ZONE-1998 Diamond Drilling

#### Section 10+70N - LD-98-05&, 06&, 07 (fig.8)

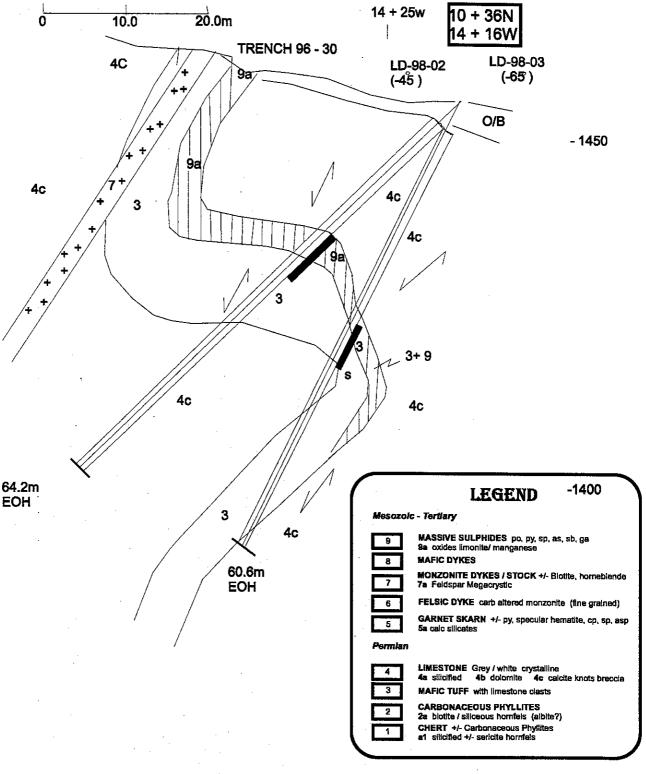
These holes tested the southwestern limits of the known #3 zone in the area of trench 96-29. Hole LD-98-05 tested to the west under the oxide zone trench.





(PLANE OF SECTION 090)

LOOKING N



# Section 10 + 70N Approx (070<sup>o</sup> Plane of Section) LD-98-05,06,07 Looking NW

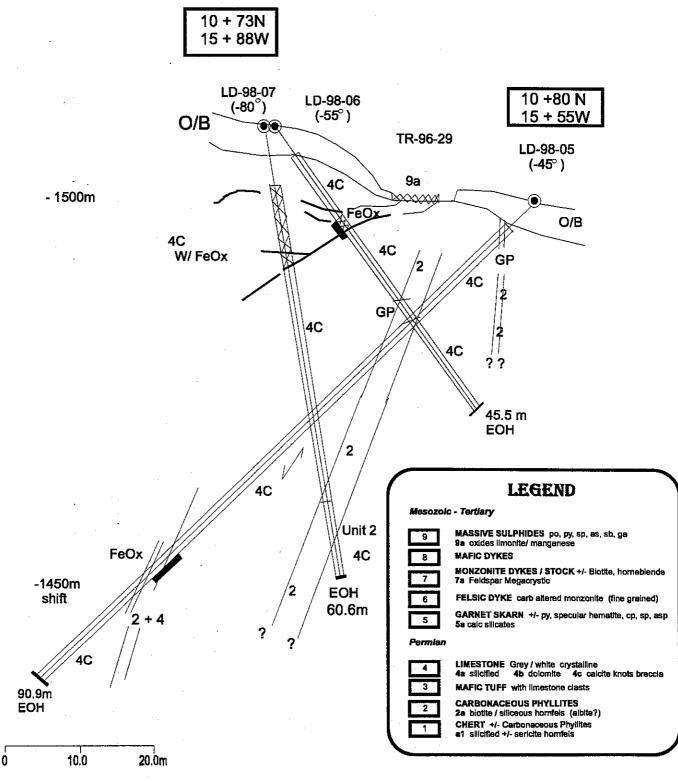


Fig. 8

This hole encountered three narrow beds of graphitic phyllite with minor oxides within the limestone breccia unit. Only weakly elevated values were encountered in this hole which does not appear to encounter any downdip extensions of the trench. Holes 6&7 test for downdip extensions of the trench area by drilling to the east. Both holes encountered minor to moderate amounts of oxides hosted within limestone. Oxides within LD-98-07 were not significant enough to sample but in LD-98-06 an interval from 15.0-16.7 m's (1.7 m's) graded 8.53g/t Au, 42.99g/t Ag, 1.42% Pb and 4.03% Zn. This suggests the trench area is a shallow west dipping zone within limestone with a noticeable absence of mafic tuffs and felsic dykes.

#### Section 11+40N - LD-98-08&09&10 (fig.9)

These holes complete a section of the #3 zone approximately 65 m's north of the previous section and reveal a similar pattern. The mafic tuffs overlying the main #3 zone are present and overly the oxides and appear to dip shallowly to the west although this dip is exaggerated due the acute angle of drilling. Holes LD-98-08&09 test the zone from the same pad by drilling to the east and encountered a number of oxide zones and the correlations made are only tentative. Any shallow west dipping equivalent of the 96 trenching appears weak with no significant values. A more significant oxide appears below a felsic dyke with a shallow west dip which would project to surface near the road at the collar of LD-98-10. In LD-98-08 an interval from 56.4-62.1m's (5.7m's) graded 0.02g/t Au, 7.26g/t Ag, 0.08% Pb and 3.66% Zn. Shorter lengths ran higher values with a strong dilution due to limestone ribs in this section. This is a significant new zone and may well correlate with oxides in LD-98-06&07 with persistent but somewhat erratic grades. Numerous areas of oxides make these correlations only tentative. Hole LD-98-10 drilled to the west and appears virtually downdip and emphasizes the ineffectiveness of holes drilled to the west at moderate dips.

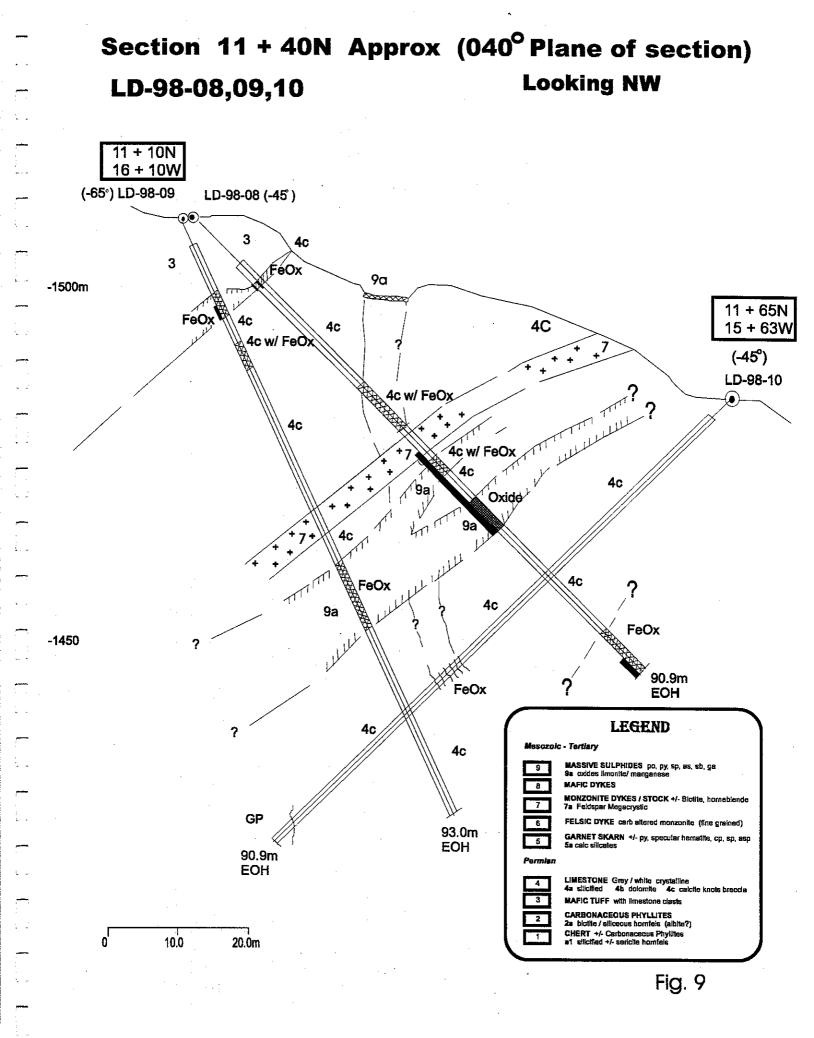
#### Section 11+80N – LD-98-11 (fig.10)

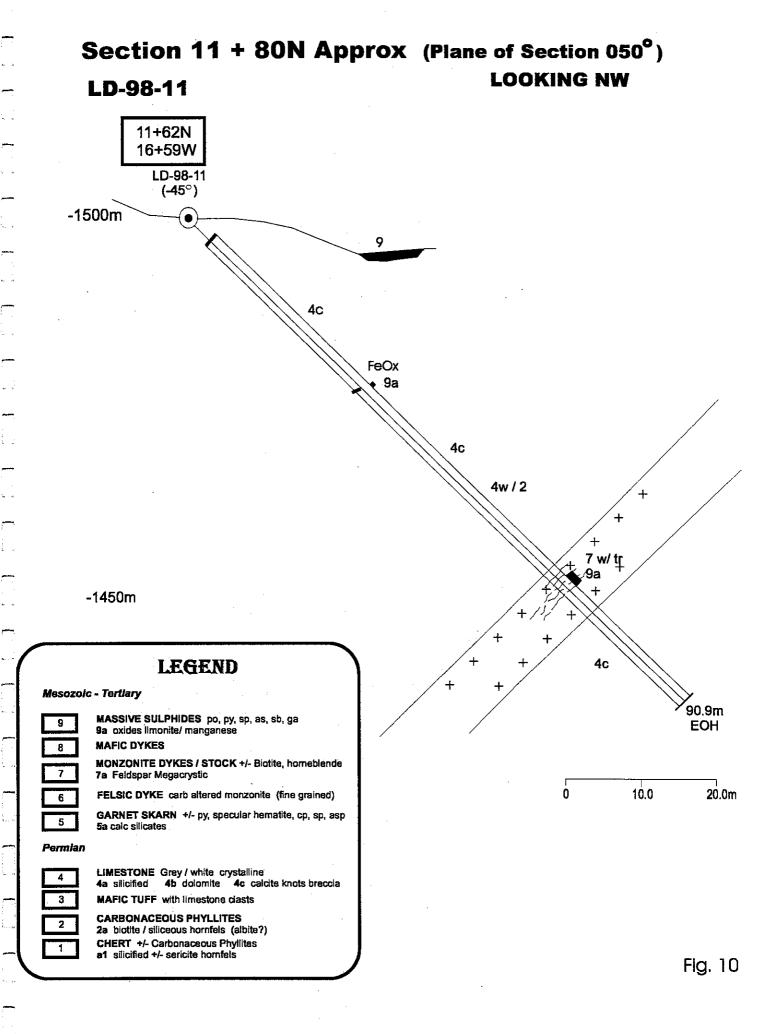
Only hole #11 was drilled on this section and encountered only a narrow oxide zone below the trench area with only weakly anomalous values. From the drilling to date grades and continuity of the oxides appears highly variable. The felsic dyke seen in holes 08 & 09 is present deeper in the hole and minor oxides with anomalous values are present within a faulted portion of the dyke. The lower oxide zone below the dyke seen in holes 08 & 09 appears absent in this section or maybe below the end of the hole.

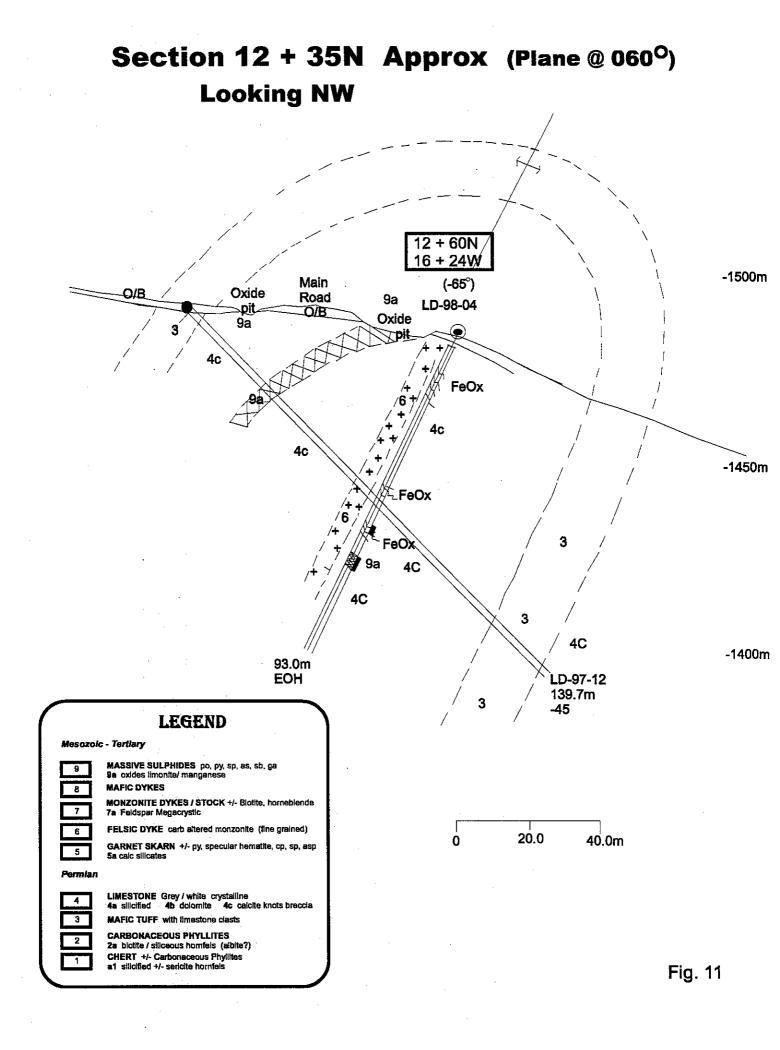
#### Section 12+35N - LD-98-04 (fig.11)

Hole #4 drilled essentially downdip to the west and again emphasizes this orientation should not be used. The fortuitous feature of this hole was its proximity to the footwall of the felsic dyke seen in the previous two sections and the hole did encounter several sections of oxides within limestone.

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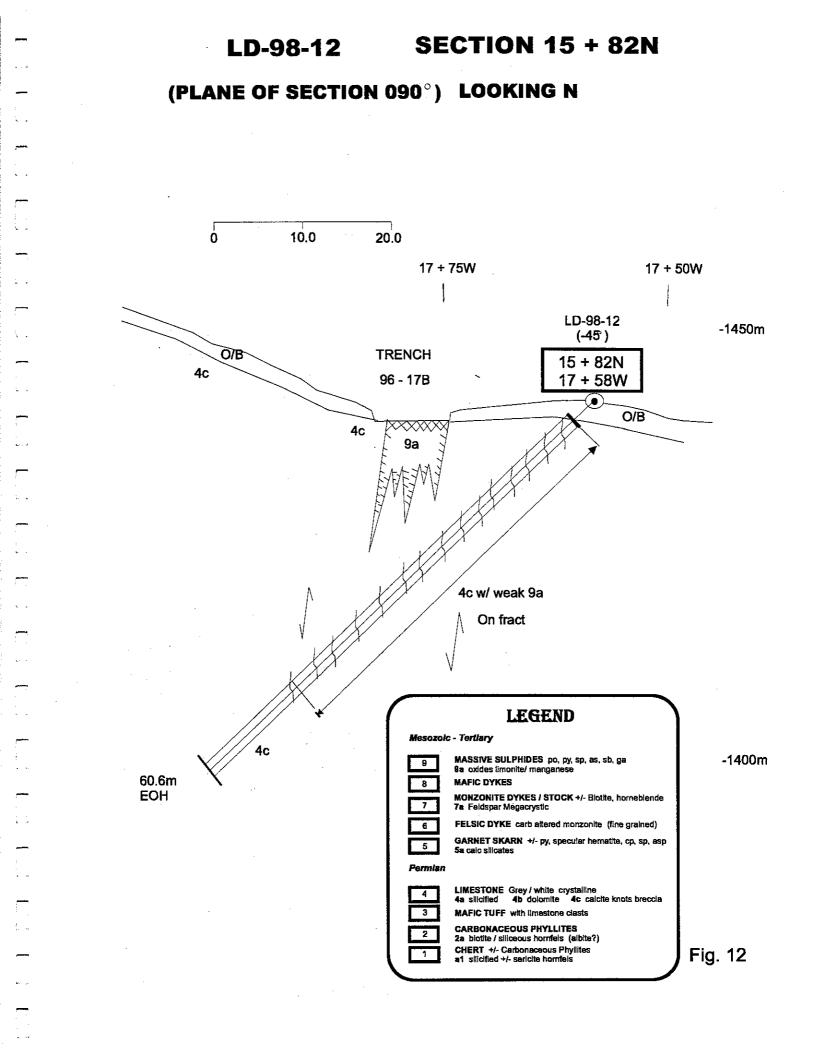


The best grades in this hole was an interval from 62.7-64.8 m's (2.1 m's) grading 0.028 g/t Au, 11.4 g/t Ag, 0.12% Pb and 9.8% Zn. This zone correlates well with the new oxide zone encountered in LD-98-08 in the footwall of the felsic dyke. This new zone appears to be in the core of the main antiform of the #3 zone while the bulk of the main #3 zone occupies the footwall of the mafic tuffs of the west limb. It is possible that the fold nose where these two zones would merge is responsible for forming the main #3 zone.

#### **#3** Extension Zone

#### Section 15+82N - LD-98-12 (fig.12)

Hole 98-12 was the only hole of this program to test the #3 extension zone. This hole while drilled to the west appears to have effectively tested the downdip extension of the zone. Widespread minor amounts of oxides were encountered but no significant zone or grades were found. This emphasizes the erratic nature of oxides in this zone possibly due to the absence of felsic dykes in this section.



#### 7. Conclusions & Recommendations

The 1998 drilling continued to encounter numerous and often new zones of mineralization in the #1, #2, #3 and #3 extension areas. Drilling to the west with moderate dips was shown to be rarely effective and should generally be avoided and drilling should be kept to E-W sections till the complex folding and stratigraphy is resolved. As is usually the case on this property new zones of potentially economic mineralization continue to be found and explored. The program also emphasizes the structural complexity and erratic nature of the mineralization and great care must be taken in planning future programs.

The #1 zone is now known to extend over a minimum strike length of 450 meters (and remains open on strike and down dip) and the present program has confirmed that multiple veins of #1 style sulphosalt veins exist. These veins are closely associated or within felsic dykes which are axial planar. Holes such as LD-98-14 indicate economic grades may reach widths of up to 8.0-10.0 meters true width. Hole #14 requires additional drilling from the west to confirm grades and widths and the entire #1 zone area requires additional drilling after a detailed compilation of the data is done to select optimal targets.

Drilling in the #2 area suggests oxides are in the footwall of mafic tuffs in a scenario analogous to the #3 zone and additional work is warranted (particularly if the felsic dyke moves closer to the tuffs).

The west limb of the #3 zone was traced an additional 170 meters of strike length to the south with erratic values within a west dipping zone below mafic tuffs. Additional work below trenches of strong mineralization should be continued. Of perhaps greater interest is a new "blind" discovery of oxides below a west dipping felsic dyke. This zone was encountered in holes LD-98-04, 08, and 09 and should have additional drilling.

The #3 extension zone has had little success to date and should be considered a lower priority target area than the others mentioned.

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Rotzien, J., Drilling Report on the 1991 Exploration of the Lustdust Property, 1992.

# APPENDIX 1

# DRILL LOGS

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1 USTOUST 1998

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ಕಿ	DRULING	Piloadara		Pg 1

:		LUSTOUST	1998 UK	4.1.18	10 60	COCHA F			U I	
Ami	re #	Hole #	Meries	INTERVAL	PHO PPM	PPM	PAny % Ph	29m/% Zn	PPm/% As	PPm/% Sb
	657	LD-9801	9.1 -9.7	0.6	91	3.7	320	1453	772	262
_	52		9.7 - 9.9	0.2	2528	152.3	5.723	3.60%	7252	4.78
• •	53	-	9.9-11.4	1.5	29	2.0	152	658	252	95
	54		11.4-12.9	1.5	16	20.2	וש	71	83	20
in a	55		20.6-21.8	1.2	67	20.2	58	112	129	૬૩
	56	LD-98-02	22.4-23.9	1.5	22	1.1	59	325	120	85
	57		23.9-25.4	1.5	21	0.9	27	420	96	177
: •••	58		25.4-26.9	1.5	13	20.2	26	140	118	53
_	59		26.9-28.4	۱۰S	67	20.2	10	128	ાઠઇ	19
	60		22.4-29.9	ŀ5	392	20.2	21	166	236	١3
	61	20-98-03	30,3-31.8	۰5	17	5.3	23	225	1.87%	106
	62		31.8- 33.3	1.5	<5	<0.2	Ţ	96	91	ll.
	63		33.3 - 34. &	١.5	24	0.6	ιι	163	94	14
-	64	20-98-04	55.6-58.5	2.9	רי	2.5	90	นาง	150	.67
	65		62.7-64.8	2.1	28	10,4	1192	9.8%	2406	476
•	66	LD-98-06	15.0-16.0	1.0	14,23	62.3	2.35%	2.96%	5.382	156°
	67		16.0-16.7	0.7	491	15.4	6236	5.58	2.45	390
	68	LD-98-05	66.4 - 67.9	1.5	96	٥.4	20	132	78	16
	69		67,9-69.4	1.5	26	1.3	12	39	55	රී
	70		69.4-70.3	0.9	19	1.4	4	35	30	7
:. i.a	71	-	70.3 -71.5	1.2	259	<0.2	26	360	165	67
	72	LD-98-09	13.3 - 15.0	1.7	15	0.2	6	790	53	ר
د	73	LD-98-08	12.4-13.5	1.1	9	<0.2	<u>Z</u> 1	925	64	10
	74	<u></u>	44.8 - 46.4	1.6	8	<0.2	10	66	34	0
	75		56.4 - 57.9	1.5	28	11.4	1525	3.87	3 2845	357
	76		57.9-59.1	L. 2	6	40.2		429	56	24
	าว		59.1-60.3	1.2	30	12.0			2638	
<b>. b</b>	78	•	60:3-61.7	0.9	- I	120.2	1 13	493	167	81 1

<u> </u>					 	· · · · ·		Pg 2	
And the second sec	en e								
JAMOLE H	Hole #	METERS	HOTE 2 VAL	An An	PPM	Ppm/9.	Zn Zn	Hom 1%	APM S D
>1679	LD-98-08	61.2-62.1	0.9	24	11.0	1742	6.50%	4878	754
20		87.8 - 89.3	1.5	23	<0.2	47	249	151	73
. 81		<u> છે</u> 9.3 - ૧૦.૧	46	43	<0.2	26	998	146	54
- 82	LD-98-11	32.6 - 32.8	0.2	12	1.4	26	810	109	5
83		69,1-70.6	۱،5	<5	9.9	12	129	64	6
- 84	LD-98-13	8.0-9.5	ربح	25	20.2	21	55	97	< 5
- 85		9.5-11.0	1.5	<u>۲5</u>	<b>K0.</b> Z	ι3	49	683	9
E		48.6-49.B	1.2	579	53.7	3554	8082	8077	7300
5 87	LD-98-14	15.2-16.7	1.5	૩૪	0.8	121	530	125	65
8e		16.7 - 18.2	ι.5	12	1.1	98	367	92	51
8 శి		18.2-19.7	1.5	21	0.5	ר3	135	146	19
- 90	an carto actores en en Anemilie".	19.7 - 20.9	1.2	6	0.4	19	83	79	21
୬୲		52.3 - 59.5	1.2	1432	149.7	Z.00%	6892	3.31%	1.80
- 92		59.5 - 60.5	1.0	2778	58,5	3861	4.77%	9.472	0.68
93		60.5-61.2	0.7	5100	261.9	1.69	2.512	7.46%	1.76
Sд		61.2 - 62.7	۱	261	30.7	682	3474	1.16 %	1176
- 95		62.7 - 64.2	1.5	<u>۲5</u>	0.3	18	53	3522	152
96		64.2 - 65.7	1.5	15	0.8	22	42	817	26
- 97		65.7 - 67.2	1.5	25	2.2	13	פרר	1668_	32
- 98		67.2-68.7	1.5	39	5.2	200	324	6579	227
୍ର୍ୟ	• • • • • • • • • • • • • • • • • • •	68.7 - 70,2	۱.5	17	1.1	23	<u>59</u>	3109	43
	· · · · · · · · · · · · · · · · · · ·	70.2-71.7	۱.5	11	1.0	10	37	8209	239
01		71.7-73.2	1.5	<u>&lt;5</u>	<0.2	٩	36	349	22
్ర	an a sur a sur a subarra a super a composition da composition da sur a sub-	73.2-74.7	1.5	<5	2.2	14	34	3295	266
- 03	an a successive a constraint of the same means of the same	74.7-76.2	1.5	25	<0.2	10	34	162	352
0A		76.2- 77.7	<b>1.5</b>	22	20.2	<u> </u>	39	294	67-
65	· · · · · · · · · · · · · · · · · · ·	7-7-79.2	1.5	25	1.1	9	84	203	21
c.(~			$\chi^{\prime} =$	21	1, 6	11	41	922	178.

As Sb PPm/% PPm/ % INTER AL PPb/ ppm PPM As Ag HOLE # Zu Au -mplin # METERS 2.20% 5400 886 6759 214.8 5183 80.7-82.2 1.5 LD-98-14-01707 3.86% 3816 7.6413.76 4105 2007.1 0.8 82.2 - 83.0  $\mathcal{O}\mathcal{O}$ 1331 101 56 140 5.7 1.5 40 09 83.0-84.5 53 196 33 626 1.4 84.5-86.0 1.5 11 10 368 66 57 9 21 2.8 1.5 860-87.5 11 38 45 66 315 0.4 21 87.5- 89.0 1.5 12 35 36 5.1 940 299 93.3 - 94.8 1.5 25 13 69 19 8 49 0.3 94.8-96.3 45 82 14 57 483 507 44 96.3 - 97.8 45 1.1 L-5 15 1533 97.8-99.3 673 142 1.5 48 199 2.2 16 444 58 310 99.3 - 100.8 25 2.6 1.5 43 5 468 12 136 1647 2108 36.9 517 100.8-102.3 1.5 510 214 19 3.6 131 321 1.5 16 102.3-103.2 < 5 605 54 122 1.5 <0.2 13 20 107-0-108.5 ROCK SAMPLES 51 10.5 2572 4.23 1.57 3400 DEIL PAD 647 FOOX CLAY 16 - 454 -01601 2908 384.8 4.57 3.36 3.51 2.83 62 TZONE. SMALL DUMP BELLO Rd. 2584 497.8 2.74% 3.51 8 4.54% 1.63 #ZONE OUTCROP 7 ZONE (3'EN.D) ωЗ 8333 436,7 4.18 % 1235 8.32 % 4.28 # 20N2 WTEREP 7 Zoore (3 CHID) 04 133 95 260 3.8 143 41 AB ZONE - MASSIVE Po-Lete Bourden 05 3922 7.29% 868 CN BULK # BZONZ (NTRECH) 3598 19.8 101 56 2.03 % 4,28% 546 CN BULK # 3 ZONE (MODLE) (ppm)12.10 1139 49.0 5 5795 4.53% 406 1517 75.9 CN BULK # 3 ZONE (STEEHEH)  $\mathcal{O}$ 1219

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DRILL LOG

Date starte	1-8-14-98
Date comple	eted 8-14-98
Azimuth	270°
Dip	<u>50°</u>
Elevation_	1435 m (APPROX)
Collar Coor	
N	9+90 N
Ε	13+42 W

Hole # LD -98-01
Depth 69.7 m
Hole size <u>NQ</u>
Contractor LDS DIAMOND DRIVING
Drill type LONGYEAR 38
Logged by P. MATTINEN

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DOWN HOLE SURVEYS

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SSAYS:

Instrument Footage	inclination	Bearing	22
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COMMENTS	DRULE	D TO TES	τ <sup>#</sup> (	ZONE	BELLEVES	<u> 67 (</u>	<u>BE</u>
	WEST	OF HOLE			COLLAR.	PPm/7	pan/%
METERS	INTRVAL	PP b/ IPm Au	hay	P5	<u>Zn</u>	<u>As</u>	<u>Sh</u>
	0.6	91	3.7	320	1453	275	262
<u>7:1-9.7</u>	0.2	2528	152.3	5.72%	3.60%	7252	4.78%
1.7-9.9	1.5	29	2,0	152	658	252	95
1.9-11.4			20.2	19	ור	83	2.0
11.4-12.9	1.5	16			112	129	83
20.6-21.8	1.2	87	20.2	58			

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HOLE # 10-98-01

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DEPTH	COLOR	MIN.	DESCRIPTION	RECOVERY.
<u>6</u> - 9.1			CASING (BEOKEN LIMESTONE)	(ASSA-19)
9-1-33.0	GRAY TO. TAN	to py	FELSIC DIKE (ALTERED) [FELSITE] LIGHT GRAY TO CREAM WHITE UNIT	
			fig. WITH 1-22 QUARE PHENOS (1-3MM), 5-102 CHUSTY PLAC. (2-4MM) VARIABLY SERIEITIC ALTERED. TY TO 12 VER. FINE FUNE	• •
• • • • • • • • • • • • • • • • • • •			DIDO PY. VARIABLY FUACTURED AND BROKEN. 9.1-9.71 BROKEN WITH MINON ON FELC.	9.1-9.7
		(SULPHIDE) # 12000	SURFACES, 9.7-9.9; SULPHIDE SEAM (# 1 ZONE) 30-402 GRAY SULPHIDE (ASP-PDS-ZUS? 102 Py + VEOX + ASOX. SEAM AT 30° TO CA. (ZONE VECTICAL)	9.7-9.9
- 			9,9 - 12.9: STRONGL, FRACTURED AND BROKEN INPART CRUSHED/FAULTED (10.3) FRACTURES HAVE VELLOW FROX PAINT AND ZNOX FILLING.	9.9-11.4
			12.9-20.6: MOD. FRACTURED UNIFORM UNIT WITH 10-20 & GNOSTY SERVEITIC PLAG. PHENOS, 1-2 & RUARTZ PHENO LIGHT YOLOW-BROWN PAINT ON FRAC	
	<b>**</b>	to py	WHY TAN, 1-4 CM OXIDATION FRONT 20.6-21.8: FAULT ZONE AT 10° TO CA.	
• • • • • • • • • • • • • • • • • • •			CRUSHED AND BRECCIATED WITH BLACK, SOFT IN FILLING (SULPHIDE?)	
	24) *		21.8-33.0 : MOD FRACTURED. WITH FINE < IMM HORNBLENDE PHENOS (52) PREDOM FRACS AT 10-20° TO CA	- - -
			LIMESTONE	
33.0 - 59.7	1 - and		MED TO DARK GRAY OWLT MED GRAD	r
e en			WITH SLIGHT FOLIATION SCHISTOSITY TO FABRIC PRONOUNCED CLEAVAGE FLIGSHE TO CALCITE GRAINS, CUT BY IRREG.	1
			NETWORK OF WHITE REMUBILIZED CALCITE VEINLETS 1-4 MM.	
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HOLE # 10-98-01

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DEPTH	COLOR	MIN.	DESCRIPTION	RECOVERY.
			33.0-38.2 : Extremely FRACTURED AND	•
			BROKEN, PROBABLY SOME FAULTING	·····
			AT CONTACT WITH FELSIC DIKE.	* 
	,		38.2-41.2: MASSINE GRAY LIMESTENE, MOD. FRIACTURED	a in an
	,		A1.2 - A3.6 : CONTOPTED BLACK CHLODITE PY	
			SEAM (1-6cm) WELLAM, MATED	•
		Mai	WITH 5-15% FINE DISS 12, Some	·
	ŕ		REMOS INTO FRACTURES. ZONE	
	e e e e e e e e e e e e e e e e e e e		5-20 TO CA AND COMING IN AND	
			OUT OF CORE	-
and a state of the			43. 6-59.71 MASSINE MED. GRAY LIMESTOME	
		n	WITH 5-10% WHITE CALCITE	• • • · · · · · · · · ·
<b></b>		<b>.</b>	VEINLETS. BROKEN 46.0-48.8 (Ex	
			ON FRACE WITH FAULT ZONE 48.8-	<i>n</i>
			49.1 (FINE, DARK PY 2 20%) = RUSHED	
			ROUGE ZONE & Gem.	-
				*
59.7		n i thi adam	EOH.	
a <b>a mana a pana ka</b> ang	•••••••••••••••••••••••••••••••••••••••			
	v	till his on damages a balance of	· · · · · · · · · · · · · · · · · · ·	
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<b>Baran de Baran</b> anno 1997 - Charles Charles anno 1997 - Charles Charles anno 1997 - Charles C		· · · · · · · · · · · · · · · · · · ·		
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Date started <u>8-15-98</u>	
Date completed <u>8-15-98</u>	
Azimuth 270	••
Dip <u>- 45</u>	
Elevation 1455 m (Approx)	
Collar Coordinates:	
N 10 + 36 N	
E_14t16W	

Hole = $LD = 98 - 02$
Depth <u>64.2</u>
Hole size <u>NQ</u>
Contractor LDS DIAMOND DRILLING
Drill type LONGYEAR 38
Logged by P.R. MATTINEN

DOWN HOLE SURVEYS

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Footage	Inclination	Bearing	
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COMMENTS	DRILLED	TO TE	ST For	2 Poss	RLE E	DIP	
· · · · · · · · · · · · · · · · · · ·	OF # 2	ZONE	<u> 66</u> 2	00m/%	PPm/2	pp=/%	PPm/ %
METERS	INTERVAL	<u> </u>	Ay	<u>Pb</u>	Zn	As	Sh
22.4-23.9	1.5	22	51	59	385	120	85
· ·	1.5	21	0.9	27	420	96	177
	1.5	. 13	L0.2	26	140	118	53
	- 1.5	67	20.2	10	188	188	19
28.4-29.9		392	20.2	21	166	236	13
	$\frac{mereves}{22.4-23.9}$ $\frac{23.9-25.4}{25.4-26.9}$ $26.9-28.4$	$\frac{\text{OF} # 2}{\text{METERS} \text{INTERVAL}}$ $\frac{22.4-23.9}{23.9-25.4} \frac{1.5}{1.5}$ $\frac{25.4-26.9}{25.4-26.9} \frac{1.5}{1.5}$	$\begin{array}{c ccccccccccccccccccccccccccccccccccc$				

HOLE # LD-98-02

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DEPTH	COLOR	MIN.	DESCRIPTION	RECOVERY.
0-3,6			CASING	(ASSA-15)
3.6-26.9	<u>CRAY -</u> TAN		LIMESTONE (TAN)	
			MASSINE MED TO DARK GRAY UNIT FINE TO MED GRAINED (MARBELIZED) SOME	
· · · · · · · · · · · · · · · · · · ·			CHISTY RENEALED BRECCIA ZONES 10-JUCM MINUR IRREG. WHITE CALCITE VEINLETS.	αν στα το
		·	TAN MOTILING THROUGHOUT - DOLOMITIC OR WEAK SILICIFICATION. WEAK TO	
			MOD FRACTURING - FEOX PAINTED FRAL, SULPACES, TAN ZONES SHOW	an a
	• •		SBNAY, DARK FEAL, LEACHING ADJACENT TU FRACTURES,	
	•		22-4-26: VARIABLY TAN MOTTLED REHEALES	
	• • • • • • • • • • • • • • • • • • •	· · · · · · · · · · · · · · · · · · ·	BRECCHA. MINOR DARK SPONGY SOLUTION BOX - WORK ADD. TO FRACS . MUD SELEMBARY CALCUTE VEINLETS .	25.4 - 26.9
26.9-38.5	n a <b>na seu seu seu seu seu seu seu seu seu seu</b>	in and a second se	a and a second	•
	na producti na	11 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1	MARIC TUFF ARGULITE? DARK GRAY- GREEN UNG WITH VAGUE	2
······	······································	· · · · · · ·	BUT FINE FRAGMENTAL CHARACTER SOME ANGULAR CLASTS TO A CM BUT GENERALLY	
<del></del>		1 1 · 1 · min (1)	UNITENT BY 10% IRREA. CALLITE VEINLETS	
			26.9-29.9 SHEARED BROKEN FAULTED	26.9-28.4
	••••••••••••••••••••••••••••••••••••••	N	25° TOCA, MINOR PY 2 1-58 AS	284-29.9
			VENLET,	atra e
		1. (1) (1)	33.9 - 38.2: DACK RACCED MOTTLING & 10%	
			40° TO CA. BUTTOM CONTACT BEDKEN/PYRITY	

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HOLE # 10-98-02

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DEPTH	COLOR	MIN.	DESCRIPTION	RECOVER
38.5- 64.2			LIMESTONE MASSINE, MED TO LIGHT GRAY, FINE TO MED GRAINED UNIT, GHOSTY REHEALED BREECIA 100 PART. 108, 1-AMM CALCUTE VEINLETS MOD FRACTURED THROUGHOUT - RARE 1-2M, PYRITE FILLED FRACTURE, IRREG. LIGHT TAN MOTTLING.	
64.2	e en	. 10.100 - 1 1 1 10.1000 - 10.000 - 10.000	EOH	
· · · · · · · ·	· • • • • • • • • • • • • • • • • • • •			
				f
ر (۱۹۹۵) با ماه به ماه با با بایند (۱۹۹۵) با باین می با باین (۱۹۹۵) با باین می با باین می باید (۱۹۹۵) باین می مسئل این می باید (۱۹۹۵) بای می باید (۱۹۹۵)				
		19 ja		<b>a</b>
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		a de la compañía de l Esta la compañía de la		n Marinton - Lanca any adaptates distribution particular part
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· · · ·	Date started 8-15-98	<b>`</b>		Hole # <u>L</u>	D-98	-03	
	Date started <u><math>8 - 16 - 16 - 16 - 16 - 16 - 16 - 16 - 1</math></u>	<u>.</u> ඉෙ	· · · · · · · · · · · · · · · · · · ·	Depth	60.6		<u></u>
-	Azimuth	<u> </u>		Hole size _			
i			<u> </u>			Amond Dr	LUNG
<u></u>	Dip 65°		$\overline{\}$	Contractor			
x .	Elevation 1455 m	(APPROT	<u>()                                    </u>				
<u> </u>	Collar Coordinates:			• •		<u>AR 38</u>	
N .	N 10+36 N		-	Logged by	PR MA	TTINEN	
	E 14+16W		-				
, &. ,							
	DOWN HOLE SURVEYS						
1	Instrument				•		
<b></b>	Footage		Inclinati	on		Bearing	
τ	Loorage		<u>,</u>				
 :							
94 - 14				<u></u>			
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. <b></b>			<u> </u>				
e e Herman						<u> </u>	
n. j	COMMENTS DRILLED	<u>To</u>	TEST F	FOR POS	SIBLE E	. D.P	
	To #2	ZONE	PPM		20m/%	ppm/g	ppm 19
ASSAYS	METERS INTERNAL	PPb/ppm Au	Aq	Ppm 12	Zn	As	SL
	30.3-31.8 1.5	17	5.3	23	225	1.872	106
	31.8-33.3 1.5	45	20.2	7	96	91	11
<u> </u>	33.3-34.8 1.5	24	0.6	11	163	94	14

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Page 2

DEPTH	COLOR	MIN.	DESCRIPTION	RECOVERY
				· · · · · · · · · · · · · · · · · · ·
0-3.6	1985, Maria and Andrea	پې د رو د د د د د د د د د م	CASING	
				· · · · · · · · · · · · · · · · · · ·
3.6-29.5	nea-/	ingen i start seren og forste kommen som en start og som	LIMESTONE	
	5		MASSINE MED TO DARK GRAY UNIT,	
			FINE TO MED GRAINED (MARBELIZED)	
	* 	na an tra s	Some anosty REHEALED BRECCH ZONES	4 
<b></b>			TO NEWS MIDIE IEREA CALCITE	n ageneration and the transmission
			VEINLETS 1-4mm, 103, FAINT TAN	
	2 		MOTTLING THEOUGHOUT - DOLOWITLE ?	
	Na Saraharan (1999) an an an Anata (1999) an anata Mary (1999)	ana, maada aya ay isoo salaasi waxaa dhahaa Ahii ahaa ah	MOD TO STRONGLY FRAC WITH FROM	e and a second second
الفارية عن مراجع معرفين المراجع الإربيسية الإربيسية الإربيسية الإربيسية المراجع المراجع المراجع المراجع المراجع	gen an de generale a company a company a company de la	ak sa mata in 19. 11. mata kiti waaka ku ku na "	PAINT, TAM MAT'L LEACHED TO	
والمراجع		an to stand and a birth and a birth and a standard	SAMAY TEN. AT FRACTURE PLANES	
			10.3 - 13.0: STEONELY FRACIAND	ŕ
		an an the state of	BROKEN, 30ME BRECCH, (MININE FAULT)	
29.5-34.8	DARK/	1-1073	MAFIC TUFF / ARGILLITE?	
	REAY GREAN		DARK GRAY - GREEM WALT WITH VIDAUE	jan La materia de la companya de la comp
	ny na katalasa pemerikan, jumar di Milangaranika di Kena Juma .	n marina ana amin'ny faritana amin'ny faritana amin'ny faritana amin'ny faritana amin'ny faritana amin'ny farit	BUT FINE FRAGMENTIAL CHARACTER ,	
		n may have a set of the set of th	SHEARED WITH FAULTING AT 34.3, 31.8	30.3-318
	•		34.8. FOLIATION AT 20-30 TO CA.	31.8-33.3
			DARK PY BANDS IN FAULT PLANES	33.3 - 34.8
		ale also pose o a concentrative e segundade		<b></b>
4.8 - 41.5	- ARAY		LIME STONE	
		und alasadd diw (Yuuri) inwyddiadadd a olyngau.	MASSIVE MED TO LIGHT GRAY FINE TO	
	· · · · ·		MED GRAINED UNIT. 10% CALCITE VEINLET	الغييب 🔰
			AND CHUSTY REHEALED BREDER, LUNER	attan di distano di sua contra da si
			CONTACT HAS REMOD, CALCITE WITH STUREAKS	
and and and the second s				L.

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COLOR DESCRIPTION RECOVERY. MIN. DEPTH A1.5- 60.6 12420- GUAY 1-58 Py ARGILLITE / MAFIC TUFF? VERY IRREGULAR UNIT WITH DARK GREEN MASSINE CALCARGOUS ABAILLITE ! AND CLOTS / WUSPS / SEAMS OF CONTERTED CALCUTE. MCLUDES 10% CRENULATE CALCUTE WITH CLOTS / WISPS OF VERY FINE GRAINED PY Py -> 103 / 10 cm 1 APPEARS TO HAVE A LIGHT GRANOBLASTIC MIN, -> IMM, UNIT APPRox JOIGO CHLORATE / CALENTE MATERIAL LAMINATIONS 10' TO CA. 59.4 - 60.6 : MASSIVE DARK GRAY LMS. CONTACT STRANLY SHEARED / 10cm AT 5.10 TO CA 60.6 EOH

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n N	·							
· · · · · · ·	Date started 8-16-98		Hole #	<u>LD-</u>	98-04	· /		
	Date scalled <u><math>8-17-98</math></u>		Depth93.0					
	Date completed $\underline{O-(1-10)}$	<u> </u>		ize \_ 🗅				
	Azimuth 239°	<u> </u>				JOND DR	all 10	
	Dip 65°	<u> </u>	CONUR		<u></u>			
	Elevation 1480 m (AP	priox)	·					
	Collar Coordinates:		Drill t	ype Lor	NGYEAR	<u> </u>		
	N_12+60N	· <u> </u>	Logge	d by P	2 MATT	INEN		
	E_16+24W	*						
	DOWN HOLE SURVEYS		•.					
	Instrument							
		Inclin	ation		Be	aring		
	Footage		<u>, , , , , , , , , , , , , , , , , , , </u>					
	···							
							-	
						,,		
			<u> </u>	<u></u>				
					<u></u>	<u></u>		
	COMMENTS DRULED TO	TEST F	or Dou	NN DI	P Co	OFIL O	17/	
	OF HIGH Zh ZONE	ENCOUN	12260	161 1		HER LD	-97- PPm/	
ASSAYS	METERS INTERVAL	DAB/DOM Au	Aa	P52	Zn	As	<u>S</u> ]	
	55.6-58.5 2.9	רי	0.5	90	1173	150	67	
	62.7 - 64.8 2.1	23	10.4	1192	9.8%	2406	171	
		<u> </u>						

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Page 2

	DEPTH	COLOR	MIN.	DESCRIPTION	RECOVERY
-	DLPIN				(ASSAYS)
Ø	- 3.3			CASING	
3	.3 - 93.0			LIMESTONE CANE	
~~	and a state of the second state	n and a second se	10 - 10 - 10 - 10 - 10 - 10 - 10 - 10 -	MASSING MED. TO DARK GRAY FINE TO	and a second sec
	ana ana amin'ny soratra amin'ny soratra amin'ny soratra amin'ny soratra amin'ny soratra amin'ny soratra amin'ny			MED GRAINED UNIT I MARBELIZED	
	n na an	<b></b>	1.11. A 100 (11.10)	FABRIC HAS OBIENTED CALCITIE GRAINS.	
		• · · ·		Some GHUSTY REHEALED BREECIA ZONES.	
	niteres no de se a cado, ca casa de referenza de referenza de sera da se da se da se	<b>.</b>		MINOR (5-10 8) WHITE CALCUTE	1
	an geneter an a	· · ···		VIEINLETS -> 4mm, MINOR BOX JORK	,
		a and a second and a second	to compare a strate of a strategy of	SOLUTION GIANITIES.	
				9.7-19.71 WWD TO STRONGLY FRACTURED	t fan it staar te st
			and the second	YELLOW TO BROWN FEOX ON FEACS.	e l
				495: 47.9: STRONALY FRACTURED AS PROVIN	3
4	a a superior de la company	. <b>1</b>		(@ 43.6: IBCM SECTION FERENGENOUS BX.)	Fer son
_				55.6-58.5: FERENCENOUS LIMESTONE BA	03.6-30.5
				(WEAK) FEOX ALOTS / FEACTURES (FOOTAME BL	AN TOSTINAL
	anna an tha ann an a		<b>3</b>	K 62,7 - 64.3: FOX CLAY RICH MUD ZONE.	044.64.3
خمر ر	<b></b>	, , <b>Pa</b> rray and a second second second	a constant to constant of the	PROBABLE FAULT. LIGHT BROWN 002E,	<b>.</b>
				(q'LUST CURE)	e mai de la completación de la c
	······································	an Marine State of State	مېرىنى بىرىنىغۇر يەۋرمۇلىيىرىنى . <sub>12</sub> يار ي	71.8-93.0 MOTTLED LIGHT GRAY -	. <b>C</b> .
				DARK GRA-1, GHUSTY BRECHA, ABUNDANT	angelen angelen ander an ander an
				CALCINE VEINLERS AND CLUTS.	
			,		
	93.0	<b>a 19</b> , 1944 - 197		EOH	ary warners and because
					angun aran ar an an tartar tartar a stara
			an a		
					*
	·				
					ng atawa
	ور و رو		Noneco colo		. 5 <b>5 m</b>
:					Now of the second of the second se
					ł

w ł .	Date started $8 - \sqrt{7} - 9$	38	H	lole #	0-98.	- 05	·
	Date completed <u>8-17-</u>	98		Depth	0.9		
-	Azimuth 250			Hole size _		····.	
: :	Dip 45						DRILLING
	Elevation <u>1500 m</u> ( Collar Coordinates: N <u>10+80 N</u>	APPROX)		Drill type . Logged by .			
	E 15+55W	<u></u>	· . •				,
	DOWN HOLE SURVEYS	<u>.</u>					
	Footage		Inclinatio	n		Bearing	
	۰ <u>۰۰۰</u>						
					<u></u>		
	<del>ور ان المحمد بين من من من المحمد بين من من</del>						
	COMMENTS DRILLED					TENSIO	
ASSAYS	METERS INTERVAL	PP6/APM An	p.om Aq	Pb~/2 Pb	ppm/2 Zn	opm/8 As	ppm/2 Sb
	66.4-67.9 1.5	96	0.4	20	132	35	16
so h	67.9-69.4 1.5	Z6	1.3	12	39	55	8
-	69.4-70.3 0.9	19	1.4	4-	35	30	
	70.3-71.5 1.2	259	20.2	26	360	165	67

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DEPTH	COLOR	MIN.	DESCRIPTION	RECOVERY.
0-4.5	d = = = = = = = = = = = = = = = =	· · · · · · · · · · · · · · · · · · ·	CASING	
	an a	na sana sa ta santa santa sa kabunat		<b>"</b>
4.5-66.4	60		LIMESTONE	
		a ay an	MASSING MED TO LIGHT GRAY, FINE	<u>.</u>
			TO MED GRAINED (MARBELIZED)	1
<u> </u>			JUBTLE MOTTLED APPENDANCE (LIKELY	
any and the statement of the state of the statement of the			REHEALED CINETY BREECEIA) WUD	
		- 108 - 1	FRACTURED	
<ul> <li>A second s</li></ul>	, 10 a Part a de acceler e ann	ga with Meridian and the first sector	5.2 - 5.8 : GRAPHITIC ARAILLITE BAND	
		an a	CARBONATE LAMINAE (1-3mm) JEVEREL-/	1
		and the second sec	CONTARTED, INPART CHLURITIC, CONTACTS	
			WEAKLY SHEARED,	
66.4-71.5		,	ARGULACEOUS LIMESTONE	
			GREY VERY FINE GRAINED UNIT WITH	66.4 - 67.9
			VERY CONTRETED CALCUTE LAWINAE	67.9-69.4
<u>100</u> 100 100 100 100 100 100 100 100 1		4) Sec. 7 (6) are case!	AND MINOR CALCUTE FILLED FRACE,	69.4-20.3
مىلىنىنى «ئىلىپ بىرا»، چى - بىلىرىلەك كەرىپىدىلىدىن مى - بىرىپ	alas 15		SHEARING AT 5-10' TO CA, TOP	
<u> </u>			CONTACT 20° TO CA. MORE ARAILLACENS	
			SECTIONS HAVE 5-15% VERY F.g. Py.	
		X	+ 70.3-71.5: STRONALY SHEARED 5-10 TO	-70,3-71.5
			CA AND OXIDIZED WITH MED TO LIGHT	
			BROWN FROM APPEARS SOMEWHAT CONFORMAN	
			AND STRATH FORM.	
		nos por o e e o se ou ou ou o e o		-
71.5 - 90.9			LIMESTONE (TAN MOTTLED)	<b>-</b>
			VARABLE LIQUE TO DARK GRAY, MED	
and the state of t			GRAINED UNT WITH TERER. CLOTS OF	
			FEERUGINOUS LIMESTONE TAN MOITLING	
			IRREG. AND SOMEWHAT BRECCH LIKE, WEAT	\$ <u>-</u>
والمراجع وال			FRIACTURING	
				a an ann an tha an tair
90,0	)		EOH	
,				

	16.0-16.7 0.7 491	15.4 6236	5.58% 2.45%	3900
	15.0-16.0 1.0 14.23 ppm	62.3 2.35%	2:96% 5.38%	1569
ASSAYS	BELOW TECK IRENCH PROJORN METERS INTERVAL AU	ppm ppm/s. Ag Pb	Zn As	10m/% Sb
	COMMENTS DRULED TO TEST BELOW TECK TRENCH	•		
-		Q ENK A	= #3 ZONE.	
:				
	·		-	
				<u>`</u>
	·		· · · · · · · · · · · · · · · · · · ·	
		nclination	Bearing	
***** * * *	DOWN HOLE SURVEYS			
<b></b> .	E 15+88 W			
 ,	N_10+73 N	Logged b	Y PR MATTINEN	
	Collar Coordinates:		LONGYEAR 38	
	Elevation 1510 m (APP20x)			<u></u>
	Azimuth <u>070</u> Dip <u>55</u>		Dr LDS DIAMOND DR	14412
:	Date completed <u>8-18-98</u>	Depth Hole size		
• • • • • • • • • • • • • • • • • • •	Date started 8-18-98		<u> 1-98-06</u> 45.5	
		,	N 98-06	

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HOLF # LD-98-06

RECOVERY DESCRIPTION COLOR MIN. DEPTH CASING 0-4.8 4.8 - 15 GRAY LIMESTONE MASSIVE WED TO DACK GRAY UNIT WITH GHOSTY REHEALED BRECCHTION THRONGOUT (MED GRAINED / MARBELIZED) MINOR (1-23) CALCUTE VEINLETS MODERATE TO STRONGLY FRALTURED FAULT GOUGE /BOM @ 8.2. 15 - 167RED/BROWN OXIDE ZONE #3 ZONA? DARK RED - BROWN EARTHY FROX S. EXTENSION ZONE \_ FEATURELESS, CONTACTS GROUND 167 - 45.5 GRAY LIMESTONE MASSINE MED TO DARK GRAY UNIT FARLY UNIVEREM EXCEPT FOR MINOR GHOLY BRECCIA PATCHES -> 10 cm. 27.7-20.2! FAULT ZONE, MUDDY GUILE AND BEOKEN ROCK 28.2-32.1: THINLY BANDED CALCAREOUS GRAPHITIC PHYLLITE, LAWINATIONS (WHITE) STRONALY CONTORTED 1-4 MM. LAMINATION FOLIATION 5-15 TO CA 45.5 EOH

Page 2

Date started <u>8-18-98</u>	Hole # LD	-98-07			
Date started <u>8-18-98</u>		60.6			
		NQ			
Azimuth <u>070</u>		LDS DIAMOND DRILLING			
Dip <u>- 80°</u>					
Elevation 1510m (APP		<b>7.</b>			
Collar Coordinates:		LONG-VEAR 38			
N_10+73 N		PR MATTINEN			
E15+88 W					
DOWN HOLE SURVEYS	·				
Instrument					
Footage	Inclination	Bearing			
,					
	·····	*			
· · · · · · · · · · · · · · · · · · ·					
· · · · · · · _		·			
<u></u>					
		·			
COMMENTS DEILLED TO	TEST JOWN DLP OF	HOLE LU-18-06			
S. EXTENSION OF # 3					
(NO ASSAYS)					
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	DEPTH	COLOR	MIN.	DESCRIPTION	RECOVERY
					<b>.</b>
0-	7.9			CASING	
7.9	- 50.9	av-A-1		LIMESTONE	
<u></u>				MASSIVE MED TO DARK GRAY FINE TO	
			ngan mpa kanan " merumanya se - ka adan se amatan makaman datan	MED GRAINED UNIT - MOTTLED LIGHT &	
				DARK GRAY MARBELIZED, POSSIBLE REHEALED	
مر بیور شیرو <u>یک</u> . مر	· · · · · · · · · · · · · · · · · · ·			BEECCIA, 10% 1-3mm WHITE CALCITE	
<u> </u>		,		VEINLETS, OCASIONAL 2-SOM LEACHED TAN LWS.	
- <u></u>				7.9 - 18:8; STRONALY FRACTURED WITH	
		degenoued account on the first in the Horizon Hard in the Horizon Hard in the Horizon Hard in the Horizon Hard in the H		TAN TO LIGHT BROWN HUD AND PAINT, FRACTORES	•
				2 possion	ł
		<b>6</b>		40.0: BANDING IN LWS AT 40° TO CA	
				and the second	
50 (	2-606	Ch. / P. arti	1-107-21	GRAPHITIC ARGILLITE PHYLLITE	
	1 00.0	cery/Bundy	1 = 104. 54	GRAY-JLACK, WELL BANDED. BLACK LAMINAE	-
	<u></u>	alay kana ya kana kata afa kata da kata	i in contra a	ALT, WITH WHITE PLUS THIN 1 - 4 mm SEAMS	
		<b></b>		F.G. R. (ARI-10%) DONT CONTORTED	
			and a second constraint of the second constraints of the second constr	WITH SOME BOUDINAAL BEDS. LAMINAE	
<del></del>				VAR, ABLY CRENULATED, ALTERNATES WITH	<u>x</u> -
			<b>n 1. mar - 1. m</b> ar - 1. 1996 - 199	LIMESTONE BEDS. MUD FRACTURED WITH	
				FZOX	
• ~~	*	<u>.</u>	<b>9</b> 99	53.2-53.6: LIMESTONE, GRAY REHEALED	
				BRECCIA.	and state of the second st
<del></del>		<u> -</u>			·
		+		54-8-55.5: AS ABOUE	a an an an an an an an Anna Marana an
			анан алан алан алан алан алан алан алан	56.4 - 60.6: MASSINE GRAY LIMESTONE MINOR, FAINT TAN MOTTLING,	
	<u></u>	. <b>6</b>	and a second second second	MINDE, THINK (MIN MUTICINES)	
					a ta a t
<u>.                                    </u>	60.7	<u>&gt;</u>		EOH	F
		agan da Managana (M. 1997) 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1.			2, 112 <b>- 1</b> 2 - 12 - 12 - 12 - 12 - 12 - 12 - 12
			199 199 19		1
	<u>.</u>				
"er 					
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i i l	Date started 8-18-98				Hole	Hole # LD-98-08					
		Date completed 8-19-98					Depth 90.9				
• •••••••	Azimuth					size <u>N</u>		<u></u>			
	Dip	_	· · · · · · · · · · · · · · · · · · ·		_ Cont	ractor LDS	DIAMONI C	DRILLING			
	Elevation	(×	_								
- 	Collar Coord				[Dril]	I type Lon	IGVEAR .	38			
	N <u> </u>	HION	·		Logo	jed by RR	MATTI	VEN			
<b>i</b> i	Eال	+10W									
				•							
e	DOWN HOLE	SURVEYS									
· · ·	Instrument.		<u>.</u>				•				
	Foota			Incli	nation		Bearing	1			
 		•				<u> </u>	· · · · · · · · · · · · · · · · · · ·				
	DRULED	TO TES	T WEST	- DIP a	of Sout	HEND OF	# 3 Zor	VE			
I	•	-									
<b>—</b>					·····						
in .		· .									
- -											
-ASSA-1S	METERS IN	ITERVAL	PP6/pom Au	PPm Ag	Ppm/9. Pb	ppm/g Zn	pm/2 As	<u>Sb</u>			
с. С. ж. С.	12.4- 13.5	1.1	9	20.2	21	925	64	10			
<del></del>	44.8-46.4	1.6	8	20.2	10	66	34	6			
L .	56.4 - 57.9	1.5	28	11.4	1525	3.87%	2845	357			
	57.9-59.1	1.2	6	20,2	17	429	56	. 24			
_ II	59.1-60.3	1.2	30	12.0	812	5.18%	2638	368			
	60.3 - 61.2	6,9	7	2012	. 13	493	67	18			
<b></b>	61.2 - 62.1	0.9	24	11.0	1742	6.50%	4278	754			
- 	87.8-89.3	1.5	23	20.2	47	849	151	73			
	89.3-90.9	1.6	43	20.2	26	998	146	54			

HOLE # LD -98-08

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RECOVERY. DEPTH COLOR MIN. DESCRIPTION ASSAY 0-9.1 CASING 9.1-13.5 CALCAREOUS SILTSTONE (MARY TUFFS GRAY / OLIVE GREEN TO TAN BROWN UNIT WELL LAMIN ATED WITH DISTINCT CLASTIC COMPONENT, WELL LAWIN ATED WITH DISTINCT CLASTIC COMPONENT, CLASTS PREDOM. LIMESTONE 1-3MM. OCCASIONAL LIMESTONE FRAG -> 3 cm 12.4 - 13.51 UNIT BECOMES FERRUGINOUS 12:4-13.5 (LIMONITIC?) LAMINATIONS 40" TO CA. 13.5- 83,0 LIMESTONE MASSINE MED. TO DARK GRAY, FINE TO MEDUM GRAINED UNIT. MARBELIZED. NAQUE MUTTLED ADPRARANCE - POSICLE RENCALED BREECIA, CALCITE VEILLETS THEOUGHOUT 1-2m (103) 30.0 : BECOMMANNA BLOCKY WITH DARK GRAY PATENES 33.9 - AZ.7 : STRONEL , FLACTURED , Th FEOX COATING, ALSO 40.2 - 50.9. 43.3-47.7 : FELSIE DIKE GRAY SERICITIC WITH 10% GHOSTY WHITE (ARGULIZED) ALAG PHENES, FEACTURED WITH FOX + TAN COLORED OXIDIZED DECTIONS VERY FINE DISS. BY + BLACK SULPHIDE, ALSO 44.8-46.4 AS FINE HAVELINE WISPS. CONTACTS 90° TO CA \* 56.4-62.1 OXIDE ZONE LIGHT BROWN TO DALK RED BROWN MUD/CLAY. 56.4-57.9 LIMESTONE = 57.9-59,1; 60.3-61.2 57.9-54 CORE RECOVERY POOR. 59.1 - Lo 603-61.2 612-62.1

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Page 3

	DEPTH	COLOR	MIN.	DESCRIPTION	RECOVERY.
23.0	- 90,9	G217-1/		LIMESTONE (TAN)	(ZYACCA)
		TAN		MASINE TO BLOCKY LOKING GRAY TO	
			. a ya kuta ila ku kata kata kata kata kata kata kata	THAN, figs - MED GRAINED LIMESTONS	· ·
				TAN COMPONENT 20-30% IRREA CLOSS	
			a Mantana na si sa mangana na masa na mangana mangana mang	BLOCKS? OF FERRUAINOUS LIMESTONE	
<del></del>		<b>#</b>	a shar galo yidannadalar ya su su kanaya ku	MILLOR CALCITE VEINLETS. (10?)	1 m
	······································		49 /majapa yana siyataya tarka ta ta ta ay 19 fanna ananaya.	83.0-90.9: MUD TO STRONGLY FRACTURED FROX-MNOX PAINT ON FRACS WITH	· · · · · · · · · · · · · · · · · · ·
		<b>***</b>	ta dianamanja in seria, ponen manarimakana n	INGREASING LIGHT BROWN FEOR DOWN HOLE.	en e - 89 2
	· · · ·	•	04136	89.3-90.9: FERRUCINOUS SECTIONS STRONGLY	t
		С — мар ули билалан кар түмөрлөгтү төр түр улуу түр	ZONE ?	LEACHED AND OXIDIZED EROX.	
<del></del>					· · · · · · · · · · · · · · · · · · ·
• • • • • •	·····	D <b>ensenangaaran</b> kanala mina pinakan kalan ka			To another to a second relative transmission of the same product region region and a
	90.9		14 - 1999 av av av 1996 av av 1996 feldet den av 1997 1996 av	EoH	• • • • •
	••••••••••••••••••••••••••••••••••••••	·			• •••••••
		* <u></u>			
	······································	t, ,	a – un ur tain cassiú to or thraitis thainn aige probha		•
·		e			αφρασιαγικαι γιαφοργατικό του δελιβατιτα τ
		·			Anna an ann an Anna an Anna an Anna an
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			ta pouter a su stanto dal galatti dattatti dattat		n 1 Fra yn - Dersen wystersternen ar werten gyn an ar ar wert
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	• • · · · · · • • • • • • • • • • • • •				e E ya amban ya akarawa karawa karaka kata ata da ata da ara
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<u></u>			· ····································		Research and a state state for the latter of the
<b>-</b>		 	·		
F		•	1		

Date started 8-19-98
Date completed <u>8-19-98</u>
Azimuth 040'
Dip65*
Elevation 1510 m (APPPox)
Collar Coordinates:
NN
E 16+10W

Hole #.	LD-98-09
Depth _	93.0
	e <u>NQ</u>
Contrac	tor LDS DIAMOND DRILLING

Drill type _	LONGYEAR 38
Logged by _	P.R. MATTINEN

DOWN HOLE SURVEYS

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ASSAYS

	Inclinati	211		<u>Bearing</u>	
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				<u>_</u>	
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TO TES	T FOR	<u>S. 32</u>	ONE EY	TENSIOT	2
PPD/PPM	PPM	Pb	PPn/2 Zn	ppm/g As	ppm/s Sb
15	0.2	6	790	53	7
	996-990-09 996/994 Au	PPD/PPM PPM Au Ag	PPD/PPDN PPDM PPD/2 Au Ag Pb	PPD/PPM PPM PPM/2 PPM/2 Au Ag Pb Zn	PPD/PPD PDM PDM/2 PPm/2 PPm/2 Au Ag Pb Zn As

DEPTH COLOR MIN. DESCRIPTION RECOVERY. 0-3,6 CASING 3,6-15 CALCAREOUS SILT STONE (MARIC TUFF? GLAY / OLIVE GREEN TO TAN BROWN UNIT, WELL LAMINATED WITH DISTINCT CLASTIC COMPONENT, CLASTS PREDOM, LIMESTONE 1-3MM OCCASIONAL LIMESTONE FRAG -> 3 cm. H.J-15.0 : UNIT BECOMES FEREURINOUS 13.3-15 (LIMONITIC!) LAMINATIONS 40 TO CA. CONTACT IRREG. 15 - 93.0 LIMESTONE MASSIVE MEDIUM TO LIGHT GRAY FINE TO MEDUM GRAINED UNT. SUBTLE MOTTLING DUE TO REHEALED BRECCHTIM OCCASIONAL FERENCINOUS LIMESTONE CLOTS/CLASTS? 10 & FAINT TO DISTINCT CALCHTE VEINLETS -> 3mm. 19.7 - 23.3 : STRONALY FRACTURED WITH EQ ON FRAC SURFACES. 4000 33.9 - 44.8 : DARKER GRAY LIMESTONE AS BLOCKS, MINOR TAN CLOTS ALIGNED 40' TO CA. 45.5-49,1: FELSIC DIKE: LIGHT GRA SERICLTIC. GHOUTY WHITE PLAG PHENDS -> 1-3 mm, CONTACTS 45 TO CA. CRUSH ZONES 2-4CM AT 47.0, 48,9 53.6-64.2: WOD TO STRONALY FRACE FEOX ON FRACTURE SURFACES. 56.0-56.2: FELSIC DIKE AS PREMIS 83.3-93.0 : DARKARAY - WHITE BEECHTED CALCUTE VEIN 84.4 - 85.1 93.0 EOH

Page 2

Date started 8-19-98
Date completed 8-19-98
Azimuth 220°
Dip 45
Elevation 1485 m (ADPROX)
Collar Coordinates:
N_11+65N
E_15+63W

Hole # LD-98-10
Deptin 90,9
Hole size NO.
Contractor LDS DIAMOND DRILLING

Drill type	LONGYFAR 38	
Logged by	P.R. MATTIMEN	

DOWN HOLE SURVEYS

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nstrument		•		
Footage	Incl	ination	Bearing	
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,	<u></u>			
COMMENTS DRILLED	TO TEST	POSSIBLE	EAST DIP	
		ZONE		
(NO ASSAYS)	<u></u>			
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	DEPTH	COLOR	MIN.	DESCRIPTION	RECOVERY.
					•
<u>o</u> .	- 3,6		.,	CASING	-
3,6	-86.4	GRA-1		LIMESTONE	• • • • • • • • • • • • • • • • • • •
		<b>6</b>	ngaga kang ang ang ang ang ang ang ang ang ang	MASSINE, LIGHT TO MEDIUM CLAY UNIT WITH	<b>Constanting and Statement and Annual Statement</b>
		7	a an ann an a	IPREG. GHOSTY MOTTLING WITH FAINT	•
		<b>.</b>		TAN COLORED OVERTONES CALCITE VEINLESS	
		<b>8</b> - 19 - 19 - 19 - 19 - 19 - 19 - 19 - 1	ing a start construction for a construction of the second s	1-3mm (102) MOD FRACTURED.	• • • • • • • • • • • • • • • • • • •
			ana salanan kana ang manang mang mang mang kanang kanang kanang manganang ma	MARBELIZED,	-
-		Manana ang ang ang ang ang ang ang ang an	en a ser ser en	DARK ANGULAR CLASTS? -> 6 cm	
1001 - 1 a 190		Ann ann an 1997	a saara ahaa waxaa ahaa ahaa ahaa ahaa ahaa ah	53.3-58.2: MOD TO STRONALY FEACTURED	•
		Bahang, amatta anashiga ananti kyat sant s≢ta t		WEAK FOOL ON FRACS.	
	na kaka sa sa ang manang na sang katalang na	A THE REPORT OF A THE ADDRESS OF ADDRES	an ar a sharayan na ayar dan 1979 marta	68-8-70.3 CALCITE VEINS 20 440 CM	
<u></u>	1997 <b></b>	<b>1</b>	,	7.5.8 - 86.4: PATCHY DALK GRA, TO	an and a constant of the second second second
		and the second		BLACK LIMOSTONE - PROBABLY GRAPHITE	<b>e</b> v
	· · · · · · · · · · · · · · · · · · ·	Press Standards (1999) - 1999 - 1999 - 1999		COMPONENT, GRAPHITE PY SEAM OVER	
		a gan adar u ya - gan u yana ar i ni u u u ananyi ya u ya u ugan.	1944 - 41, 1. Abirt, 18, 54, 111, 11, 11, 11, 11, 11, 11, 11, 11,	2-4 mm @ 76.4, 30-45° TO CA.	🖉 congress and a second s
86	.4-90,9	army/	tr - 2 hay	CALCAREOUS ARGILLITE	
·····	ana amin'ny soratra dia mampiasa amin'ny soratra dia mampiasa.	BLACK		BLACK GRAPHITIC ARGULITE WITH	-
		<b>7</b>		THIN BANDS OF 1-6MM CALCUTE.	. ·
		<b>.</b>	Parameter and a subscript communication of the set of	SOME GRADHTIONAL SECTIONS TO	a a secondaria de la casa de la c
	hay symbolic discrift future from a second state for a f			MASSINE FRACTURED + REHEALED LIMESDAL	· · · · · · · · · · · · · · · · · · ·
	na gogo - 1. o Polona Margol I.M 201			MINOR DISS. TOTHIN LAMINAE OF	•
		•	•••	Fig. Py. 1-2%, CALCITE LAMINAE	•
	a an an an an ann faitheach an annachadh an a			STEINALY CONTORTED AND CRANNATED	at and a second se
	مى مەركىيى بىلىغىنىيە بىلىغىنىيە بىلىغىنىيە بىلىغىنىيە بىلىغىنىيە بىلىغىنىيە بىلىغىنىيە بىلىغىنىيە بىلىغىنىيە ب	<b></b>		SOME APPARENT CLASTIC COM PONENT.	<b></b>
				· · · · · · · · · · · · · · · · · · ·	
	90.0	[,		Eott.	a Baul Matanal agai manatati matati di Safa
	<b>,</b>				
			· · · · · · · · · · · · · · · · · · ·		
	· · ·	14			
	na shekara nga kana na shekara ta ta ka na na na na na shekara na shekara na shekara na shekara na shekara na s	1 Anguna anguna 1 (1) contractore frontesia para de la contracta de la contract 			
		A	Conservation (Conservation)		
a cylennek si'nt oly yn negesjon.		n an	n arangen gegen from to opper attemption		1

Date started 8-19-98
Date completed 8-20-98
Azimuth 050
Dip45°
Elevation 1500 m (APPROX)
Collar Coordinates:
N_11+62 N
F 16+59 W

Hole = $LD - 98 - 11$
Depth
Hole size <u>NQ</u>
Contractor LDS DIAMOND DRILLING
Drill type LONG YEAR 38
Logged by PR MATTINEN

DOWN HOLE SURVEYS

SAYS

Foot	age		Inclina	tion		<u>Bearing</u>	*
<u> </u>	. <u></u>			<u> </u>			
	<u> </u>						
						······································	
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		<u> </u>				<u> </u>	
COMMENTS	DRILLE	STO TES	ST Post	SUBLE EA	ST DIP	OF	
Sou	THERN	END OU	<u> </u>	ZONE			
				pom/2	PDm/2	+ 000/2	Ppm/2
<u></u>	INTERVAL	Ptb/PPm Au	ppm Aq	Pb	Zn	As	Sb
	INTERVAL	42	,	Pb 26			5b 17
16-32.8 1.1-70.6		Au	Ag	Pb	Zn	As	Sb

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Page 2

	DEPTH	COLOR	MIN.	DESCRIPTION	RECOVERY
					ASSIAYS
0	- 4.2		Tallin's VAD-add Toward a disclosed surgers are a set	CASING	
		<b>8</b>			
4.	2-90.9	aray		LIMESTONE	
		, 5	antering at a sume of the state	MASSINE LIGHT TO MEDIUM BRAY UNIT	
	ى مەرىپى سە مەتىرى سەرەر بىرىيانىيەن مەتىرىكى مەتىرىكى يېرىكىيىچى	······	a and the set for the set of the	WITH GHOSTY MOTTLING - PIZOBABLEY	
	• • • • • • • • • • • • • • • • • • • •	B.	annan saran ta saran kangkakana ay sara a	REHEALED BREECHA. CALCITE VEINLETS	
		an a	anna tras	1-3mm (10%) OCCASIONAL KIMM	<b>e</b> No. 10 1
-		al maintain ann an ann ann ann ann ann ann ann a	ann an staineachtaidh an an san a	CARBONACEOUS FILIMENTS AND FRACTURE	
		and a second state of the	ennegerati integrati da desensera	FILLING (GRAPHITIC), WEAK TO MOD	-
	<del>an an</del> an	an a	n mark a sain ng panakanan ng	FRACTURES.	n
		<b>4</b> ,			32.6-32.8
	······································			ZONE, VUCAY OPEN AND LEACHED	• • • • • • • • • • •
-			an a	53.6 - 60.0 ' BECOMING DARK GRAY	an an the transmission of a and the
		•		TO BLACK CARBONACEOUS?	
• •	energia de la compañía de la compañí	and a second		67.0-74.8: FELSIC DIKE	<b>4</b> -1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1
	an fasalan masalan yang bahar kanya sa manana ana kanya	and a state of the	/ MMC MMC - Mag ( - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 -	GRAY SERICITIC, INPART SILICIFIED.	ander Marthursen anderen anderen Er en
_	and the second		<b>.</b>	SHOSTY PLAG. PHENS -> 3 mm. 2 152	4 4
-		••••••••••••••••••••••••••••••••••••••		LESS ALTERED SECTIONS APPEAR TO HAVE	
		• •		FINE HORNBLENDE VARIABLE FEOX	
-				AS LEISAGANG BANDING FRONTS ADJACENT	•
	• ••••••••••••••••••••••••••••••••••••	<b>4</b> 	to a constant	TO FRACTURES, TOP CONTACT AT 30-35 TO CA	and a second
		\$		69.1-TO.6: CRUSHED AND FAULTED WITH	69.1-70.6
	name of the second s	an Setter two territori and and and a		BROWN WUDDY GOUGE 43 CM	4
• -	arrand data array disation forganis, m - was Marile an array a	A	t - Marina - Mantena - Mantena - Angela	67.6-68.8: LIMESTONE INCLUSION INDIK	1
<del>,</del>		•	Martinet i si feli officet di bago si seguinangangan pa	83.9-90.9: MODERATELY FRACTURED	er en
۰.	n a tha an	≱ เม้¥ หางที่เป็นเหตุสาย หลูกเป็นเหตุสาย 	Maraka ya shika ang si aya	WITH IPPER DECTIONS OF DULL F.g.	б. н. м. с.
	='r== V=r=' = = = = = = = = = = = = = = = = = =		ennementum mit da geter stud ta it feita star maan	LIMESTONE AND REHEALED BRIECCIA.	• · · · · · · · · · · · · · · · · · · ·
-	90.9			··· · · · · · · · · · · · · · · · · ·	
1	70,7	6 		EOH	7 7 8
-	-i	<u>.</u>			÷ ۲۶ 
	*	ն բանչներին հայտներին անհանգետությունները է հայտները հայտները հայտները։ Դուսին հայտներին հայտն	antak menangkan terdepatan sebagai ker		
<del>ين</del> د.		<b>*</b>	er: mindenseppen om konstale det dag her denseter of		9 - 19 19 - 19 - 19 - 19 - 19 - 19 - 19
		×			······································
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DRILL	<u>LOG</u>		

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Date started 8-20-98	Hole = LD	-98-12
Date started Date completed	Depth 6	0.6
Azimuth		NQ
$\frac{-45^{\circ}}{-1000}$		LDS DIAMOND DRILLING
Elevation 1442 M (APPROX)		
	Deill type	ONGVEAR 32
Collar Coordinates:	•	PR MATTINEN
N_15+82 N	Logged by _	
E_17+58W		
DOWN HOLE SURVEYS		
Instrument	·····	
Footage Inclina	ation	Bearing
	······································	
	······································	
	· · · · · · · · · · · · · · · · · · ·	<u> </u>
•		
COMMENTS DEILLED TO TEST POS	SIBLE EAST	DIP OF
# 3 ZONE N. EXTENSION		
(NO ASSIANS)		

HOLE # 1) -98-12

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. <u></u>	DEPTH	COLOR	MIN.	DESCRIPTION	RECOVERY
0 -	3.6			CASING	
				می از مربق می اور این	
<u>3.6</u>	- 60.6	C.E.Jy		LIMESTONE	
			( ) (	MASSIVE, MEDIUM TO DARK GRAY, f.g.	
			· · · · · · · · · · · · · · · · · · ·	UNIT. IRREG. MOTTLED TU BRECCIA	
<u></u>	. <u></u> ,			APDEARANCE - REHEALED, LOZ, 1-4mm	• •
			a goog of solar basis basis on a first	CALELTE VEINLETS AT RANDOM .	<b>.</b>
				ORIENTATIONS, MOD TO STRONGLY	
			a ar a nid provin an onder the	(3.6-A3.0)	
				Some 1-2 cm MUD BEAMS IN FRACTURES SEATIONS.	
		- Sampe a price an easterne state and of star for "State Sectors"		•	
4 <b>8</b> 4 9 1 1 1 1	Nennonanaseu anas minina e.	n al an	ung di dintan kuman sitang antigati anastagati 14,476 s	UNIT HAS A FAINT FOLLATION OR ALIGNMENT	
		1		TO FABLIC AT 35-40 TO CA.	
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·	60,6				ŀ
			n ya sharan wa wa sharan wa	a an anna an	ŀ
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	ngan an a				araa da ahaa ahaa ahaa ahaa ahaa ahaa ah
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<b></b>	adarii adar adar 1 - Alarii 1 addina bir Alar -				
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			, in , and it is a second table -		
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Date started <u>8-20-98</u>
Date completed <u>8-21-98</u>
Azimuth 270
Dip <u>- 45*</u>
Elevation 1403 M (APPROX)
Collar Coordinates:
N_8+67 N
E 13+21W

Hole = LD - 98 - 13
Depth 83.3
Hole size <u>NQ</u>
Contractor LDS DIAMOND DRULING
Drill type LONGYEAR 38
Logged by P.R. MATTINEN

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DOWN HOLE SURVEYS

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Footage		Inclination	Bearing
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<u> </u>	<b>.</b>		
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	<b>_</b> `		
		<u></u>	
MENTS DRALES	50	TEST BELOW #1 ZO	NE SURFACE

SAYS	METERS INTERVAL	PPB/DDm Au	fom Ag	PPm/2 Pb	PAN/2 Zn	As	Pom/2 Sb
-	8.0-9.5 1.5	25	<0.2 ·	21	55	<u>97</u>	<5
	9.5-11.0 1.5	25	40.2	13	49	683	9
• . •.	48.6-49.8 1.2	579	53.7	3554	6808	8077	7300
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DEPTH	COLOR	MIN.	DESCRIPTION	RECOVERY
				(ASSAYS)
0-4.2			CASING	
4.2-10.6	White The	tr-2%	FELGIC DIKE (ALTERED)	, ,
			NEEY LIGHT GRAY TO CREAM WHITE	
			fig, UNIT WITH 10-20%, 1-3mm	4 
<b>1</b> 6			WHITE GHOSTY ANTERED PLAG. PHENS .	¢
			OCCASIONAL QUARTZ PHENO -> 2mm.	
			USUIT CILICIFIED WITH SUGARY TEX.	•
e ander an anti-sector and a sector and the		<i></i>	MONOR SECTIONS (10 - 40 cm) wiTH 1-3%	ion ar
		and the second	NERT FINE DIS PY? . MINESE ON DATION	
	ter ga anna ann an te	1	ALONG FRACTURES + INTO UNIT (FEDX)	3.5-11.0
ه و ه مورده و منتقد و و وسیست.		a na Agagan yan sa ta ƙwa <b>a</b> nna <b>n m</b> ana ƙwa ƙa	MINOR CRUSHED AND BROKEN SECTIONS	
<b>~··</b> · · ·	. 🖌 🗤	, , and a second	AS AT 6.4, 7.0, 9.7.	r.
	ŀ		LOWER CONTACT 20-25" TO CA	*
، د			LIMESTONE (GRAPHITIC)	
10.6-19.1			· · · · · · · · · · · · · · · · · · ·	
	<b>, , , , , , , , , , , , , , , , , , , </b>		DARK GRAY IRREG MOTTLED UNIT figs WITH WISPY SEAMS OF 1-2MM	- -
, second de la constante de la c	an de la compañía de		GRAPHITIC MAT'L. ALSO FINE BRECCIA	
van oor monteners − · · ·	1		INFULING. UNIT APPEARS TO BE	ter al
			CRUSHED AND REHEALED, VAQUE BUT	
	ундар (Алтарана) улаан алтараан улаан алтараан алтараан улаан алтараан улаан алтараан улаан алтараан улаан алтар	A set of the set of	ADPARENT REHEALED SHEARING AT	
			20 - 40 TO CA . UNIT GRADES INTO	
			MOTTLED GRAY - WHITISH LIMESTONE AT	
n an <del>ag a</del> n an		,	19.1	<b>e</b>
,			······································	r
19.1-48.7	GRAY		LIMESTONE	
10 m 10 m	WHITE	· · · ·	MASSINE GRAY- WHITE MOTTLED, f.g.	
			To med GRAINED UNIT. ILLEG BLOTCHY	2 <b>-</b>
			WHITE - GRAY GHOSTY WHITE REMOBIL.	
•	•		CALCITE VEINLETS. ALSO SMALL PATCHES	u as <mark>™</mark> • • • •
. با الم الم الم الم الم الم الم الم الم ال			(2-10 m) TAN FERRUGINOUS. LIMESTONE	-
and a subscription of the	· · · · · · · · · ·		MOD FRACTURED WITH MINOR FROX CONTINU	
-			29.4 - BELOWING STRONGLY FRACTURE	

HOLE # LD -98-13

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DEPTH	COLOR	MIN.	DESCRIPTION	RECOVERY
			44.2-48.11 FELSIC DIKE	
	An		LIGHT GEERN APHANITIC, FELDSPAR PORPH.	aland generation of
	and a second	1	WITH 10-15% 1-3mm PUNG PHENOS, UNIT	5. M
Basedina Mary Mary 19, 5 Mary 1, 8 American (1997) In 1997 (1997)	Readmand and a second of the second	n o ganda, ay completions at a Par Admitted of a	WEAKLY CARBONATIZED. CONTACT AT	
	5	and a second secon	45° TOCA. AND CON TAMINATED WITH	
			30-50% LIMESTONE FRAGMENTS, 1-32	
udara analasi daganya yanana dangara yanaka sanyan	В. <sub>1. 4</sub> ау <sub>2.0</sub> 0 1. ульта таболе а <del>рали</del> я	and and an end of the second sec	FINE DOS PY THEODEHOUT	
ى يەكەر <mark>يايىرى بەر يېرىمۇنىيەر سەرەھەرىيە بىرىم</mark> ىر ۋە ئە <sup>ر</sup> ىيەرىيە ھەرە يەرەپىرىكى بىرىمەرىيە	1945 - Mar Ballon, Marine Maria, Phana (1976), 1988, 1988, 198	, , , , , , , , , , , , , , , , , , ,		The second state of the se
48.6-49.8	BARK/	11-20%	# ZONE VEIN	
	614-112	SULPHIDE .	FRACTURED, BLEACHED WHITE LIMESTANE WITH	
			CLOTS BAND, BRECCIA INFILLING OF PY-SAL-	,
د از این از این از این از این	• • • • • • • • • • • • • • • • • • •		G. + MINOR COARSE DISS REALGIAR . ROSSIBLE	-
		•	TAMESONITE, SULPHIDE BANNS TO - 70'TO CA	
Ашарыцаны <sub>н</sub> амарынан саларынан калары	e		10-208 TUTAL SULPHIDE, BOTTOM CONTAC	T
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Date started 8-21-98	Hole = LD-98-14
Date started Date completed98	Depth
Azimuth 270	Hole size NQ
	Contractor LDS DIAMOND DRILLING
$Dip - 65^{\circ}$	
Elevation 1403 m (APPRox	
Collar Coordinates:	Drill type LONG YEAR 38
N 8+67 N	Logged by PR MATTINEN
E 13+21W	
DOWN HOLE SURVEYS	
Instrument	
Footage	Inclination Bearing
	and the second
	DOWN DIP OF #   VEIN ZONE
INTERSECTION IN HOLE	LD-98-13
(ASSAUS: SEE ATT ADHED	SHEET)
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Page 2

DEPTH	COLOR	MIN.	DESCRIPTION	RECOVERY
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67-583			LIMESTONE	1971 - Malana Aran Ing 1979 - Malana Aran Ing Ja
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	n gener Mangalana a gana ang kang kang kang kang kang	•••••••••••••••••••••••••••••••••••••••	15.2 - 20.9: FELSIC DIKE (ALTERED)	
	mandata ana ary ara-ara-ara-ara-ara-ara-ara-ara-ara-ara	nation of the processing of the second se	LIGHT GRAY TO CREAM WHITE Fig. SUGARY	15.2-16.
	· · · · · · · · · · · · · · · · · · ·		TEXTURED UNIT WITH 10-30%, 1-3mm	
		1. v. storensen – "na je titalni" v titana v Aktorika takat I	WHITE CHOSTY ALTERED PLAC. PHENOS	18-2-19.
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			UPPER CONTACT CRUSHED AND BROKEN,	· · · · · · · · · · · · · · · · · · ·
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58.3-62.7	19 au 19 an 19 Tha 19 an	n ny na amin'ny sorana amin'ny sorana amin'ny sorana amin'ny sorana amin'ny sorana amin'ny sorana amin'ny sora 11. amin'ny sorana ami	FIVEIN ZONE	a an
	territari anala in fermana a constante ana		MASSIVE RY-SPh-Gn/1.5m WITH	53.3.59.5
	- 19415 MARIO (1974 - 1975) - 1941 - 1941 - 1941 - 1941 - 1941 - 1941 - 1941 - 1941 - 1941 - 1941 - 1941 - 1941	an a	CRUSHED LIVESTONE Ry-Sph- Jas. JTRING	53.5-60.5
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	na / 14, MP 11 MM MARY (1 Medium - selama dansa ar 101 m		SULPHIDE ZONE IRREA WITH CLOTS OF	61.2 - 62.7
-			Ry-sph-an- Some Ass. (REALARE)	
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The second and a second and as second and a				Antonia a constante da constante
	///www.uc		CLEAN WHITE TO CHALKY APHANITICE	62.7-64.2
k		e forme a series a more som a social of Restaurant angeware	UNIT WITH 10-25%, 1-Jum CHUSTY (KAOL) PLAG PHENOS. STRONGLY CRUSHED AND	
	a na spirine sa	e e estado - terres conservação -		65.7 - 67.2
				67.2 - 68.7

Page<u>3</u>

DEPTH	COLOR	MIN.	DESCRIPTION	RECOVERY.
		and the same of a set of a same of Assession before a same	MINOR PRANCE FILLED PRACTIKES	
			(REALENR /OR PIMENT [A: S]	70.2-71.7
چې د روې د او ور د او ور			71.2-76.4 EXTREMELY BROKEN AND	717-73.2
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E	Management of the management of the state of the sector of the		BLZ-22.7, QUARTZ-PY-Jas Seh	DA.7-762
	<b>.</b>		VEINLETS 2-20 mm AT 5-20° D CA.	T6.2-77.7
			R 10% SWL PH. DES	-79.2
			85.9 - 86.4: SHEARED AND BROKEN WITH	79.2- 30.7
<b></b>	and the second second		BLACK CHLORITE AND 1-32 DES My + ASP	80.7-82.2
يې مېرمې د ورو ورو ورو ورو ورو ورو ورو ورو ورو و		аналанан каланан каландар калан к Калан калан кал Калан калан кал	87.0-93.3: WASSIVE, UNIFORM, PALE	82.2 - 83.0
		<u> </u>	GRAY-GREEN, ARTEN ALT FELDSPARS	330-84,5
	nger		POISIBLY BOTH PLAC AND DRTH. 2 30-	845-860
Photosophicada accumentaçãos estadores de atomicada accumenta accumentación de consecutores de consecutores de			40% FELSEPAR PHENOS 2-5mm.	86.0-87.5
and a start of the		nyaya ka sebastat sha mayar sa synya sa	1-5% NERY FIRE DIGS RY. DACITE OK.	87.5 - 84.0
		and the second second second	93.3-106.7 & GRA-, TO WHATISH RHYOLD	
· .		THE REPORT OF THE TAX IS AN ADDRESS OF TAXABLE	DIKE MIXED WITH GREEN PORPH	923- 94.8
Names		a ang ang pang pang pang pang pang pang	DACITE WEAKLY OUT - Feld ARPH.	94.8 - 963
		•	EXTREMELY FRANTURES AND DROKEN	96.3-97.8
12 -			106.7 - 16.1 SILLCIFIED SUGARY TEX FERSIC	97.8 - 99.3
	-	· · · · · · · · · · · · · · · · · · ·	DISE WATH 2-5% DISE Py-Sph.	99.3 - 604.8
			116.1 - 1173: SHEARED / CRUSHED DARK	100.8-102.3
- 			GRAPHITIC PHYLLITE INCLUSION TOP	1023-103.8
مى <u>مەرە</u> يىلىرىنى بىرىمىيەر بەرەيتىنى بىرىمىيەر بىرىمىيەر بىرىمىيەر بىرىمىيەر بىرىمىيەر بىرىمىيەر بىرىمىيەر بىرىم	<b>Caracteristics</b> we deliver the state of the	un el como comencia de la como recore	CONTACT AT 60 TO CA (IRREG)	107.0-108.5
			BOTTOMCONTACT 15°-20 TO CA.	
مى يەرىپىيى دەرىپىيە بەر بەرىپىرى بەر 4 مەر 4 مەر بەر بەر بەر بەر بەر بەر بەر بەر بەر ب	n algen men welfer men an operation and all the desire to all the design of the sector	alaran da ya a sa ka	117.3 -121.2; DACITE DIKE.	Bin nan in staat waarige oor
			LIGHT GEAY- GREEN, UNIFORM, 20-30%	
anna an sea	<b></b>	No. 1. 1. 1. 1.	1-3mm WHITE PLAC PHENOS, 1-22	* 192
			VERY FINE DISS BY THROUGHOUT.	
			i and in the second sec	1
121.2			EON	
	<u>.</u>			
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### **APPENDIX 2**

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# CERTIFICATES OF ANALYSES - CORE SAMPLES

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	-	Services	
Boncar Cla		cate of Analysis	Page 2 of 2
Client Number: V98-)1540.1		· · · · · · · · · · · · · · · · · · ·	Laboratory # 981391
	•		Date: <u>9/21/98</u>
Method: Bottle cyan de agi Start Roll: 9/17/98 11:00 a.m.	Finish Roll: 9/21		
Sample # R2-01608			
As: ay Ton	31.200		
Starting Weight grams Grind or size fraction	910 as is	Tail assay	
Vol of H20, Liters	1.820	oz Au/ ton	0.012
NaCN added, lbs/ton ore	12		
pH, ending	7.6	Calculated head	
NaCN consumption	(0.0	oz Au/ ton	0.042
Gold extraction, ppm	10.6 0.51	Assay head	
oz/ton % of tota l	0.030 71.26	oz Au/ ton	0.044

By:\_

Mark F. Lewis Manager/Metallurgist

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Nevada Assembly 811 No. 519.130 requires the following statement: The results of this assay were based solidly upon the content of the sample submitted. Any decision to invest should be made only after the prospective investment value of the claim or deposit has been determined based on the results of essays of multiple samples of geologic materials collected by the prospective investor or by a qualified person selected by him/her and based on an evaluation of all engineering date which is available concerning any proposed project.

ITS Intertek Boncar Cle	egg Certifica	ate of Analysis	Page 1 of 2
	······		Laboratory # 98139
Client Number: V98-01540.1 Attention:	• •	·	Date: 9/21/9
Method: Bottle cyanile agi	tation leach	test	
Start Roll: 9/17/98 11:00 a.m	Finish Roll: 9/21/9		
Sample # R2-01606			
Ass ly Ton	29.691		
Starting Weight grams	866		
Grind or size fraction	as is	Tail assay	0.017
Vol of H20, Liters	1.732	oz Au/ ton	0.017
NaCN added, lbs/ton ore	12		
pH, ending	8.3	Calculated head	0.440
NaCN consumption		oz Au/ ton	0.110
lbs/ton ore	10.4		
Gold extraction, ppm	1.59	Assay head	
oz/ton,	0.093	oz Au/ ton	0.105
% of tote	84.51		

Sample # R2-01607			
Ass ay Ton Starting Weight grams Grind or size fraction Vol of H20, Liters	30,377 886 as is 1.772	Tail assay oz Au/ ton	0.064
NaCN added, lbs/ton ore pH, ending NaCN consumption	12 9	Calculated head	0.305
Gold extraction, ppm	10.0 4.13	Assay head	
oz/ton % of tot: i	0.241 79.01	az Au/ ton	0.321

A less than sign (<) is to be read "less than" or "none detected" .

	TS Int Bor	ertek ndar Clo	Testin	g Se	rvices			Geoche Lab Report
	PHA GOLD CORPORATION 28-01540.0 ( COMPLETE )					DATE RECEIVED:	26-AUG-98 DATE PRINTE	PROJECT: LUSTDUST D: 13-SEP-98 PAGE 1 OF 7
SAMPLE NUMBER	ELEMENT Au3O Augra UNITS PPB PP		av Cu Pb PM PPM PPM P	Pb Zn CT PPM	Zn As PCT PPM I	AS SO SO PCT PPM PCT		
01601	51	10.5	111 2572	>10000	4.23 >10000 1	57 >2000 0 34		
01602	2908		.8 362 >10000 4.		3.36 >10000 3.	and the second		
01603	2584		.8 473 >10000 2.	1 - 2 - 3 - 3 -	3.51 >10000 4	and the second		
01604	8333		.7 117 >10000 4.	<ul> <li>A set of provide the providence of the providence of</li></ul>	<ul> <li>ACCEPTED 12</li> </ul>	.32 >2000 4.28		
01605	41	3.8	1094 143	95	260	133		
01606	3598	19.8	329 1101	3922	>10000 7.	.29 868		
01607	>10000 12.1	0 49.0	729 1139	>10000	2.03 >10000 4.	.28 546		
01608	1219	75.9	731 1517	5795	>10000 4.	53 406		
01651	91	3.7	26 320	1453	772	262		
01652	2528	152.3	261 >10000 5.	72 >10000	3.60 7252	>2000 4.78		
01653	29	2.0	7 152	658	252	95		
01654	16	<0.2	7 19	71	83	20		
01655	87	<0.2	12 58	112	129	83		
01656	22	1.1	1 59	385	120	85		
01657	21	0.9	<1 27	420	96	177		
01658	13	<0.2	<1 26	140	118	53		
01659	67	<0.2	99 10	188	188	19		
01660	392	<0.2	38 21	166	236	13		
01661	17	5.3	19 23	225	>10000 1.	87 106		
01662	<5	<0.2	15 7	96	91	<b>11</b>		
01663	24	0.6	67 . 11	163	94	: ~ 14		
01664	17	0.5	1 90	1173	150	67		
01665	28	10.4	114 1192	>10000	9.80 2406	176		
01666	>10000 14.2	62.3	1170 >10000 2.3	5 >10000	2.96 >10000 5.	38 1569		
01667	491	15.4	906 6236	>10000	5.58 >10000 2.	45 >2000 0.39		
01668	96	0.4	19 20	132	78	16		
01669	26	1.3	4 12	39	55	8		
01670	19	1.4	3 4	35	30	7		
01671	259	<0.2	21 26	360	165	67		
01672	15	0.2	33 6	790	53	7		



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# Intertek Testing Services Bondar Clegg

# Report PROJECT: LUSTDUST

Lab

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CLIENT: ALP	HA GOLD COR	RPORATIC	N - N								DAT	E RECE	IVED: 26-AUG-98	8 DATE PRINTED: 13-SEP-98	PAGE	2 OF 7	
EPORT: V98	3-01540.0 (	COMPLET	E)				··· ······	·····	_			sb	Sb				
	ELEMENT	Au30 /	uGrav	Ag	AgGrav	Çu	Pb Pl		Zn	As	As	PPM					
SAMPLE	UNITS	PPB	PPM	PPM		PPM	PPM PC	r PPM	PCT	PPM	PUI	FFM	-01				
NUMBER	ONTIO											10					
A / 177		9		<0.2		42	21	925		64		6					
01673		8		<0.2		7	10	66		34							
01674		28		11.4		176	1525	>10000	3.87	2845		357					
01675		6		<0.2		3	17	429		56		24					
01676		30	2.11	12.0		169	812	>10000	5.18	2638		368					
01677		00															
		7		<0.2	,	4	13	493		67	-	18	•				
01678		24		11.0		244	1742	>10000	6.50		2 5	754					
01679		24 23		<0.2	2 - C. C. A. C. A.	2	47	849		151		73					
01680			4.54	<0.	1.1.1.28	1	26	998		146		54					
01681		43		1.	- 2012 C. 17	2	26	810		109		17					
01682		12			•	: Ē		는 가슴이 있다. 기억하기			j.	÷, ÷	•				
		-		9.	n . Vit	17	12	129		64		6					
01683		<5		۶۰ <0.		14	21	55		97		<5					
01684		<5		<0.		19	13	49		683		9					
01685		<5		53.		42	3554	6808		8077	•		0.73				
01686		579				7	- 10 B B B B	530		125		65	5				
01687		38	5	0.	•				i N								
					4	10	98	367	ă 1	92	2	5					
01688		1;		1.		7	· · ·	135		146	5	19	9				
01689		2			.5.	15		83		79		2					
01690			5		.4	99	>10000 2	.00 6892					0 1.80				
01691		143		149		70		>10000		7 >10000	9.47	7 >200	0 0.68				
01692		277	8	58	.5	70	5001										
						0 1//	S10000 1	.69 >10000	2.5	1 >1000	0 7.4	5 >200	0 1.76				
01693		510	0.		.0 261	.9 104		3474	- 1	>1000							
01694		26			.7			5		352		15					
01695		•	<b>5</b> Ng		.3	12	The second second	4	69 - C	81	7	2	26				
01696		•	<b>s</b> 🔅		.8	18		77	e.,	166	· .	3	52				
01697		2	25		2.2		5 13		Č.				÷				
				<u>_</u>		en e	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	32	4	657	rý	22	27				
01698		:	39		5.2		5 200 		9	310			43				
01699			17		1.1		4 23		9 7	820			39				
01700			11		1.0	1	· · ·	1.715.	56 56	34			22				
01701			<5	· <	0.2		6 9		2 C	329			 66				
01702			< <u>s</u>		2.2	23	3 14		\$4	565		-	-				

# S Intertek Testing Services Bondar Clegg

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PROJECT: LUSTDUST

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Lab

Report

CLIENT: AL	PHA GOLD COF 8-01540.0 (	COMPLETE )							D	ATE REC	EIVED: 26-AUG-98	DATE PRINTED: 13-SE	P-98	1710-	OF 7	
SAMPLE NUMBER 01703	ELEMENT UNITS	Au30 Augrav PPB PPN <5	Ag Ag 1 PPM	Grav	Cu PPM 7 12	·	Pb Zn CT PPM 34 39	2n As PCT PPM 162 294	AS PCT	352 677	50					·
01704 01705 01706 01707		25 31 886	1.1	214.8	9 14 201	9 11 5183	84. 41 6759		2 0 2.2	21 78 0 >2000	0.54					
01708 01709 01710 01711 01712		4105 40 11 9 <5	>200.0 24 5.7 1.4 2.8 0.4	007.1	1494 12 22 110 44	10000 3. 101 33 21 21 21	.86 3816 56 53 57 66	>1000 133 62 36 31	1 6 8	4 >2000 140 196 66 38						
01713 01714 01715 01716 01717		25 82 <5 48 25	5.1 0.3 1.1 2.8 2.6		47 13 48 15 9	35 8 57 199 43	940 49 483 1533 310	50	39 07	30 19 44 14	2 2					
01718 01719 01720		136 16 <5	36.9 3.6 <0.2		57 8 14	517 131 13	1647 321 54		08 10 05	46 21 12	4					

**APPENDIX 3** 

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STATEMENT OF QUALIFICATIONS

#### STATEMENT OF QUALIFICATIONS

I, Graeme Evans, do certify that:

- 1) I am a geologist and have practised my profession for the last sixteen years.
- 2) I graduated from the University of British Columbia, Vancouver, British Columbia with a Bachelor of Science degree in Geology (1983).
- 3) I am a member in good standing with the APEGBC as a professional geoscientist.
- 4) I was not actively involved and did not supervise the Lustdust program.
- 5) All data contained in this report and conclusions drawn from it are true and accurate to the best of my knowledge.
- 6) I hold no direct or indirect personal interest, in the Lustdust property, which is the subject of this report.



Jeramon Jommon

Graeme Evans Senior Project Geologist November, 1998

### **APPENDIX 4**

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### STATEMENT OF COSTS

Fax: (604) 939-4981

#### ALPHA GOLD CORP.

410 Donald Street Coquitlam, BC V3K 3Z8

#### LUSTDUST PROGRAM - 1998

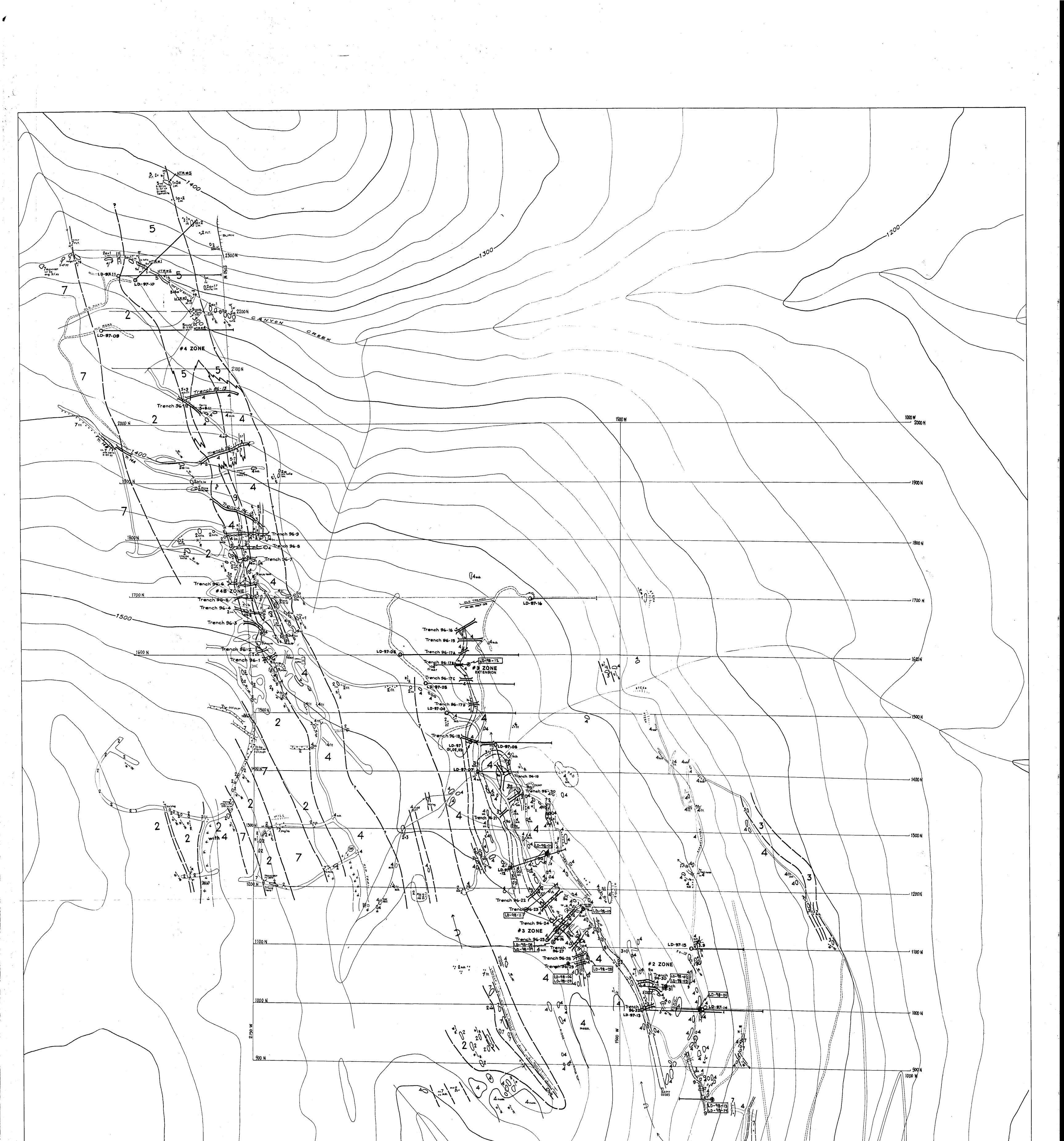
# COST SUMMARY FOR ASSESSMENT REPORT

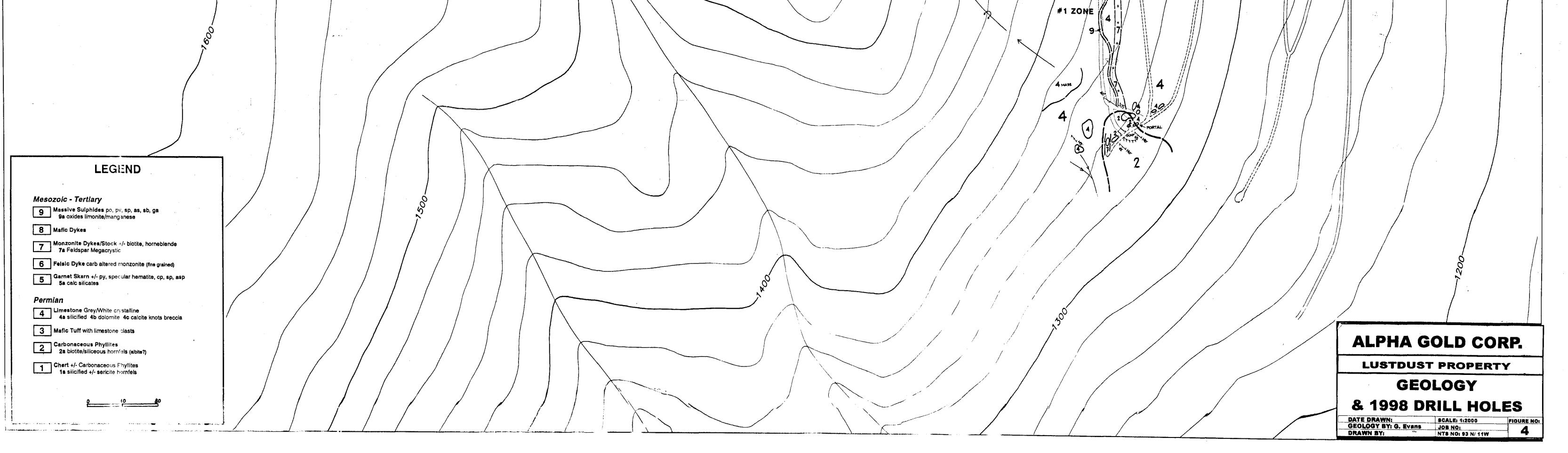
Diamond drilling - 3,643 ft. (includes core boxes \$59,908.88 & sample bags) Geologist - August 12-29/98 (18 days) 7,200.00 Lay out drill holes, mapping & core logging 4,800.00 Engineer - August 12-27/98 (16 days) Surveying & core splitting 2 Truck rentals (16 days ea.) =  $32 \times $90$  per day 2,880.00 1,918.65 Assaying Food & Lodging (2 persons x 16 days ea.) =  $32 \times$ 3,200.00 \$100 per day 600.00 Air travel, fuel & sundry cost items 1,500.00 Report preparation

Total

1

\$82,007.53





GEOLOGICAL SURVEY BRANCH ASSESSMENT RÉPORT

